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ZPR-3 ASSEMBLY 6F: A SPHERICAL ASSEMBLY OF HIGHLY ENRICHED URANIUM, DEPLETED URANIUM, ALUMINUM AND STEEL WITH AN AVERAGE ^{235}U ENRICHMENT OF 47 ATOM %

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1.0 DETAILED DESCRIPTION

1.1 Overview of Experiments

Over a period of 30 years, more than a hundred Zero Power Reactor (ZPR) critical assemblies were constructed at Argonne National Laboratory. The ZPR facilities, ZPR-3, ZPR-6, ZPR-9 and ZPPR, were all fast critical assembly facilities. The ZPR critical assemblies were constructed to support fast reactor development, but data from some of these assemblies are also well suited for nuclear data validation and to form the basis for criticality safety benchmarks. A number of the Argonne ZPR/ZPPR critical assemblies have been evaluated as ICSBEP and IRPhEP benchmarks.

Of the three classes of ZPR assemblies, engineering mockups, engineering benchmarks and physics benchmarks, the last group tends to be most useful for criticality safety. Because physics benchmarks were designed to test fast reactor physics data and methods, they were as simple as possible in geometry and composition. The principal fissile species was ^{235}U or ^{239}Pu. Fuel enrichments ranged from 9% to 95%. Often there were only one or two main core diluent materials, such as aluminum, graphite, iron, sodium or stainless steel. The cores were reflected (and insulated from room return effects) by one or two layers of materials such as depleted uranium, lead or stainless steel. Despite their more complex nature, a small number of assemblies from the other two classes would make useful criticality safety benchmarks because they have features related to criticality safety issues, such as reflection by soil-like material.

ZPR-3 Assembly 6 consisted of six phases, A through F. In each phase a critical configuration was constructed to simulate a very simple shape such as a slab, cylinder or sphere that could be analyzed with the limited analytical tools available in the 1950s. In each case the configuration consisted of a core region of metal plates surrounded by a thick depleted uranium metal reflector. The average compositions of the core configurations were essentially identical in phases A - F. ZPR-3 Assembly 6F (ZPR-3/6F), the final phase of the Assembly 6 program, simulated a spherical core with a thick depleted uranium reflector.

ZPR-3/6F was designed as a fast reactor physics benchmark experiment with an average core ^{235}U enrichment of approximately 47 at.%. Approximately 81.4% of the total fissions in this assembly occur above 100 keV, approximately 18.6% occur below 100 keV, and essentially none below 0.625 eV – thus the classification as a "fast" assembly. This assembly is Fast Reactor Benchmark No. 7 in the Cross Section Evaluation Working Group (CSEWG) Benchmark Specifications[a] and has historically been used as a data validation benchmark assembly.

[a] Cross Section Evaluation Working Group Benchmark Specifications, BNL-19302, Vol. II, (ENDF 202) (September 1986).

Loading of ZPR-3/6F began in late December 1956, and the experimental measurements were performed in January 1957. The core consisted of highly enriched uranium (HEU) plates, depleted uranium plates, perforated aluminum plates and stainless steel plates loaded into aluminum drawers, which were inserted into the central square stainless steel tubes of a 31 x 31 matrix on a split table machine.

The core unit cell consisted of three columns of 0.125 in.-wide (3.175 mm) HEU plates, three columns of 0.125 in.-wide depleted uranium plates, nine columns of 0.125 in.-wide perforated aluminum plates and one column of stainless steel plates. The maximum length of each column of core material in a drawer was 9 in. (228.6 mm). Because of the goal to produce an approximately spherical core, core fuel and diluent column lengths generally varied between adjacent drawers and frequently within an individual drawer. The axial reflector consisted of depleted uranium plates and blocks loaded in the available space in the front (core) drawers, with the remainder loaded into back drawers behind the front drawers. The radial reflector consisted of blocks of depleted uranium loaded directly into the matrix tubes. The assembly geometry approximated a reflected sphere as closely as the square matrix tubes, the drawers and the shapes of fuel and diluent plates allowed.

According to the logbook[a] and loading records for ZPR-3/6F, the reference critical configuration was loading 5 which was critical on January 4, 1957. The subsequent loadings were very similar but were less clean for criticality because there were modifications made to accommodate reactor physics measurements other than criticality. Accordingly, ZPR-3/6F loading 5 was selected as the only configuration for this benchmark. As documented below, it was determined to be acceptable as a criticality safety benchmark experiment.

A very accurate transformation to a simplified model is needed to make any ZPR assembly a practical criticality-safety benchmark. There is simply too much geometric detail in an exact (as-built) model of a ZPR assembly. This is especially true of ZPR-3/6F because of the complex core loading required to approximate a sphere with rectangular plates in a square matrix. The transformation must reduce the detail to a practical level without masking any of the important features of the critical experiment. And it must do this without increasing the total uncertainty far beyond that of the original experiment. Such a transformation is described in Section 3. It was made using a pair of continuous-energy Monte Carlo calculations. First, the critical configuration was modeled in full detail – every plate, drawer, matrix tube, and air gap was modeled explicitly. Then the regionwise compositions and volumes from the detailed as-built model were used to construct a homogeneous spherical model of ZPR-3/6F that conserved the mass of each nuclide and volume of each region. The simple model is the criticality-safety benchmark model. The difference in k_{eff} values between the as-built three-dimensional model and the homogeneous spherical benchmark model was used to adjust the measured excess reactivity of ZPR-3/6F loading 5, yielding results for the benchmark model. Uncertainties associated with this simplification, which go beyond Monte Carlo statistical uncertainties, were included in the k_{eff} uncertainty of the benchmark model. The net difference in k_{eff} and each of the effects that contribute to it are small.

1.2 Description of Experimental Configuration

A lot of details must be presented to describe precisely the as-built assembly. Also, it is useful to define some jargon (to be shown in italics) to facilitate the presentation. For those unfamiliar with ZPR assemblies, the task of absorbing this may be tedious if not a bit overwhelming. In fact, the task of modeling the exact plate-by-plate loading would be unreasonable to do by hand. In practice, the information contained in this section was accumulated in an electronic database and processed into models using computer programs. Readers interested only in using the benchmark model need not be concerned with any of these details, since Section 3 contains a complete specification of the criticality-safety benchmark model.

[a] Applied Physics Division Experiment Logbook Number 696E, Argonne National Laboratory, 1957.

1.2.1 The ZPR-3 Facility - The ZPR-3 fast critical facility was a horizontal split-table type machine consisting of a large, cast-steel bed supporting two tables or carriages, one stationary and the other movable. Details of the ZPR-3 facility are given in the hazard evaluation report for the facility.[a] A pictorial view of the ZPR-3 facility is shown in Figure 1. Each table was 100 in. (2.54 m)[b] wide and 67 in. (1.70 m) long. Stainless steel square tubes, nominally 2 in. (51 mm) on a side (inside dimension), 0.040 inches (1 mm) thick, and 33.5 in. (851 mm) long, were stacked horizontally on each table to form a 31-row and 31-column square "honeycomb" matrix. Each 31 x 31 array of matrix tubes was pressed tightly together and clamped in place on its table by steel structural members. The matrix pitch was measured in November 1959. The reported pitch values were 2.1835 in. (55.461 mm) in the horizontal direction and 2.1755 in. (55.258 mm) in the vertical direction[c].

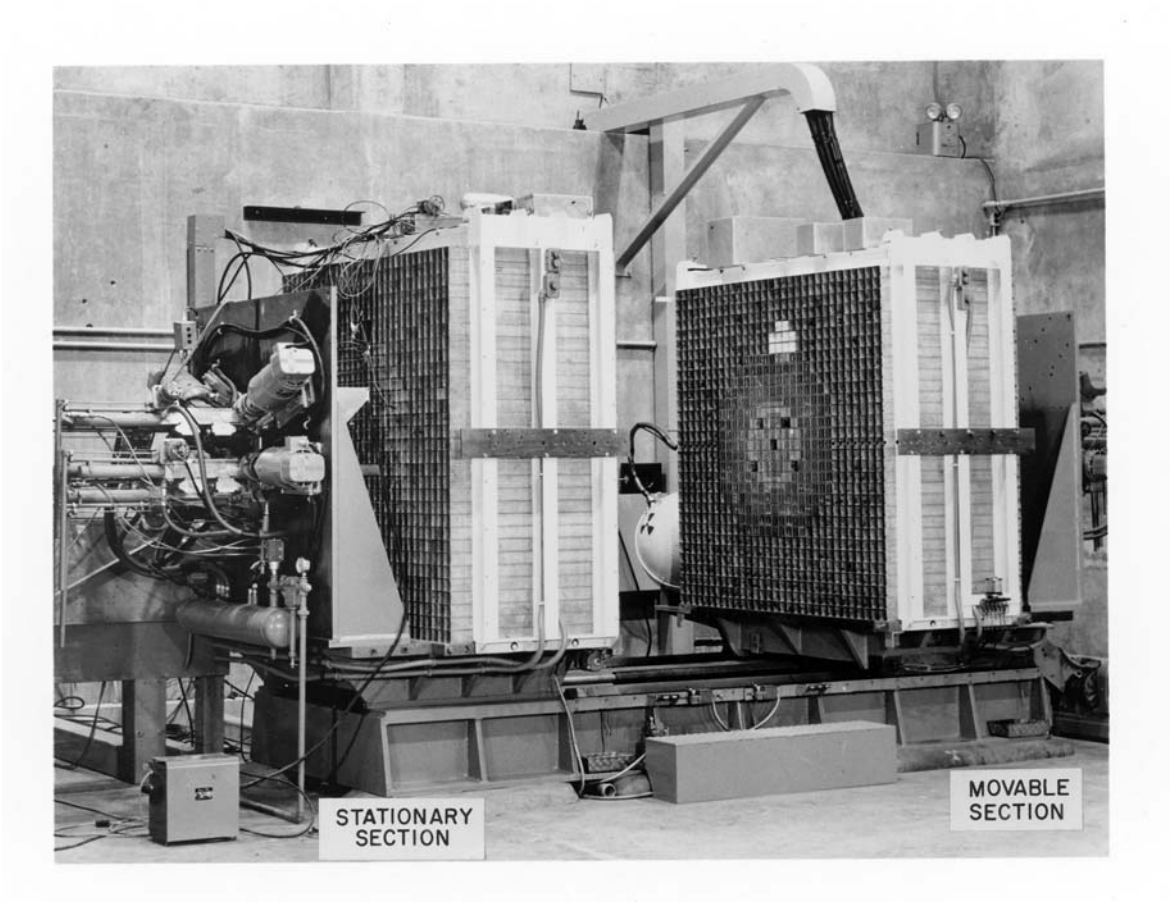

Figure 1. View of the ZPR-3 Facility.

Except during reactor operation, the tables were separated by 5 feet (1.5 m). For reactor operation, the movable table was driven against the stationary table with a nut and lead screw mechanism, forming a cubical 31 x 31 matrix array, 67 inches (1.7 m) on a side.[d]

[a] R. O. Brittan *et al*., "Hazard Evaluation Report on the Fast Reactor Zero Power Experiment ZPR-III," Argonne National Laboratory Report ANL-6408, October 1961.

[b] Almost all of the references give dimensions in English units and some also give metric equivalents. We display the metric equivalent in parentheses when practical, as a courtesy to international readers.

[c] L. H. Berkes, ZPR-3 Hot Constants Memo, March 31, 1960.

[d] Slight misalignment of the matrix bundles was unavoidable, resulting in a small (approximately 1 mm) gap at the interface when the tables were driven to the closed position.

A *matrix position* is specified by three parameters: matrix half (S or M), row letter (A-Z and AA-EE starting from the top), and column number (1-31 starting from the left looking from the movable half towards the stationary half). For example, the central position in the movable half is M-P/16. Because the column numbers for both halves start from the same side of the machine, the row and column numbers in the stationary and movable tables of the machine align when the tables are brought together. For example, the matrix positions designated as row N, column 15 in the stationary and movable halves (S-N/15 and M-N/15) are directly aligned when the movable table touches the stationary table.

The stationary and movable matrix halves are sometimes designated as half 1 and half 2, respectively, in ZPR documents. That convention is retained here.

During the startup, a neutron source had to be present in each half of any ZPR-3 loading that did not contain an inherent source in the core (e.g., ^{240}Pu). Figure 1 provides a partial view of the movable half's spherical source pig (shielded container) and the source transport tube connecting the pig to matrix row P. The source pig is the light sphere at the lower center of Figure 1. It is between the movable half and the wall and is partially hidden by the movable half. There was a corresponding pig and tube for the stationary half. The safety documents, which were based on uranium fuel, required the presence of drawers in ZPR-3/6F that could accommodate a source tube.[a] The locations of the sources in ZPR-3/6F have not been found. Based on other ZPR-3 assemblies such as ZPR-3/12, the most likely locations for the sources were locations S-P/21 and M-P/21 because these are the radial blanket locations closest to core drawers in row P.

A steel back plate, roughly 30 inches (76 cm) behind the matrix tubes on each table, supported control rod drives. The drives were mounted on the outboard side of the plate and were connected to control rods by steel shafts that projected through holes in the plate.

ZPR-3 had no system to cool the matrix loading when Assembly 6F was in the ZPR-3 matrix. It was not until the mid 1960s, when plutonium fuel containing a substantial fraction of heat-emitting ^{240}Pu came into use, that a rudimentary forced-air cooling system was devised.

A small number of thermocouples were in the ZPR-3 matrix to monitor the core temperature. Before plutonium fuel was used at ZPR-3, there was only one thermocouple per half. Five more thermocouples per half were added when plutonium fuel came into use. Each thermocouple, and its electrical lead, was installed in the small, axial interstitial gap that existed where the rounded corners of four matrix tubes met.[b] No record of the axial and radial locations of these thermocouples has been found. The logbook entries for critical configurations include measured temperatures. The logbook entries for critical ZPR-3/6F loadings consistently list three temperatures. It is not known where the third thermocouple was located in Assembly 6F.

The matrix machine was near (approximately 2 m from) a corner of a large cell (room), approximately 45 feet by 42 feet and 30 feet tall (14 × 13 × 9 m).

The desired average composition was achieved by loading the matrix with drawers containing rectangular plates of different materials such as highly enriched uranium, depleted uranium, aluminum, etc. A specific plate-loading pattern in a drawer is called a *drawer master*. The plates were bare material or had a cladding or, in the case of uranium, may have had a protective coating. Figure 2 shows a matrix tube, drawer and related hardware. Figure 3 shows a typical loaded ZPR drawer although the drawer shown in Figure 3 was not used in ZPR-3/6F.

[a] J. M. Gasidlo, Private Communication, April 2, 2009.
[b] J. M. Gasidlo, Private Communication, April 10, 2009.

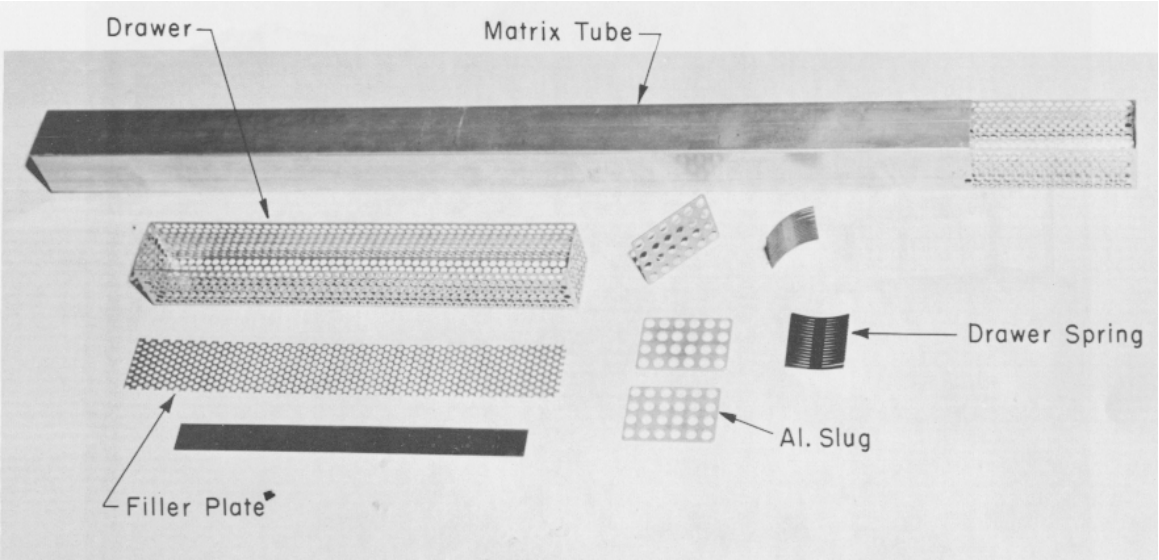

Figure 2. Typical ZPR-3 Drawer.

Figure 3. Typical Loaded ZPR Drawer.[a]

[a] The plates are elevated above the bottom of the drawer in this photograph.

There were usually many plate sizes available for a given material and a limited number of plates of any one size. Consequently, there were often several drawer masters that had essentially the same composition, differing only in the plate sizes used. The number of similar drawer masters was increased by the fact that drawers for the stationary and movable halves had different (opposite, mirror image) drawer masters.

The specification of which drawer master was in each matrix position is known as a *matrix loading map*. In ZPR-3/6F, as in most ZPR-3 assemblies, a given matrix position had two drawers, a *front drawer* and a *back drawer* (the front drawers in the stationary and movable halves were adjacent to the interface between the halves). Correspondingly, there are two matrix loading maps for each half, a front map and a back map.

The ZPR-3 drawers themselves can be categorized as either normal drawers or control drawers. Each normal drawer had 2 inch-tall (51 mm) front, back, and side walls, and a 2 inch-wide bottom wall. Most normal drawers had approximately 0.03-inch-thick (0.8-mm), highly perforated Type 304 stainless steel wall material. The rest of the normal drawers had approximately 0.04-inch-thick unperforated aluminum walls. Each normal front drawer had a tab at the front edge of each side wall. There were corresponding notches in the side walls of the matrix tubes. The tabs fit in the notches to provide positive seating of the drawer in the tube, with the front of the drawer flush with the front of the matrix tube. Each normal back drawer had a handle extending from its back wall, which allowed the drawer to be extracted from the back of the matrix tube. In ZPR-3/6F, all normal front and back drawers were aluminum drawers. The control drawer is described below.

The only type of operational control rod used in ZPR-3 was the *dual-purpose* (DP) control rod, so-called because it was a drawer that contained a core unit cell that could be driven in and out along a matrix tube to adjust reactivity. For ZPR-3/6F, there were five DP rods in each half. Four DP rods per half were designated as safety rods, and the remaining DP rod per half was used as a control rod.

The control drawer itself was basically like a normal drawer but had some special features. Because the DP control drawer had to be strong enough to undergo rapid acceleration and deceleration, it was made of unperforated Type 304 stainless steel with twice the wall thickness (0.063 in. = 1.6 mm) of normal-drawer walls. To minimize the possibility of a DP drawer binding in the matrix tube through which it moved, the DP drawer width was made 0.063 in. (1.6 mm) less than that of a normal drawer. A consequence of these two design features was that the width of the plate loading had to be 1/8 inch (3.2 mm) less than the normal 2-inch wide (51 mm) plate loading. To act as a single rigid body, the DP drawer not only had to be thick walled, it had to be at least as long as the combination of a normal front drawer and back drawer. The DP drawer's nominal length was 32 inches (813 mm) which is nearly as long as that of a matrix tube. Finally, the design included a wall at 15 ¼ in. dividing the drawer into front and back compartments. This helped stiffen the drawer, but more importantly, it allowed the drawer's plate loading to be locked in place more effectively, with springs inserted at the back of each compartment.[a]

The full details of a ZPR-3 loading are not contained in published reports because of their complexity. Instead, it was usual to give details of a representative drawer master for each region, the matrix loading map in terms of representative drawer masters, and the average composition for each material region. However, the detailed description of ZPR-3/6F was archived in loading records.

1.2.2 The Matrix and Drawer Loading Data - Some of the matrix locations in row P contained a small penetration in the side walls through which a source tube could pass. In cases where the source tube was required, as in ZPR-3/6F, the plate loadings in the source tube locations were adjusted to make space for the source tube. Safety documents required the presence of the source tube drawers even if an external neutron source was not needed. The locations of the sources in ZPR-3/6F have not been found although S-P/21 and

[a] J. M. Gasidlo, Private Communication, April 7, 2009.

M-P/21 are the most likely locations based on other ZPR-3 assemblies and on the fact that these are the radial reflector locations adjacent to core fuel drawers in row P.

Figures 4, 5 and 6 show three of the drawer masters used to construct ZPR-3/6F. Figure 4 shows the only full front core drawer master (SP-1) in ZPR-3/6F. Figure 5 show a partial core drawer master (SP-17) which contained core material, radial reflector and axial reflector.[a] Figure 6 shows a back drawer master (SB-8).

Figures 4 – 6 show the drawer masters as they are loaded for the stationary half. When a drawer master is used in the stationary half, the plate loading in the drawer corresponds to Figures 4 – 6. When the same drawer master is used in the movable half, the plate loading order in the X-direction is reversed so the drawer master in the movable half is the mirror image of the corresponding drawer master in the stationary half. This is necessary to ensure that like columns of plates align when the two halves of the matrix are brought together.

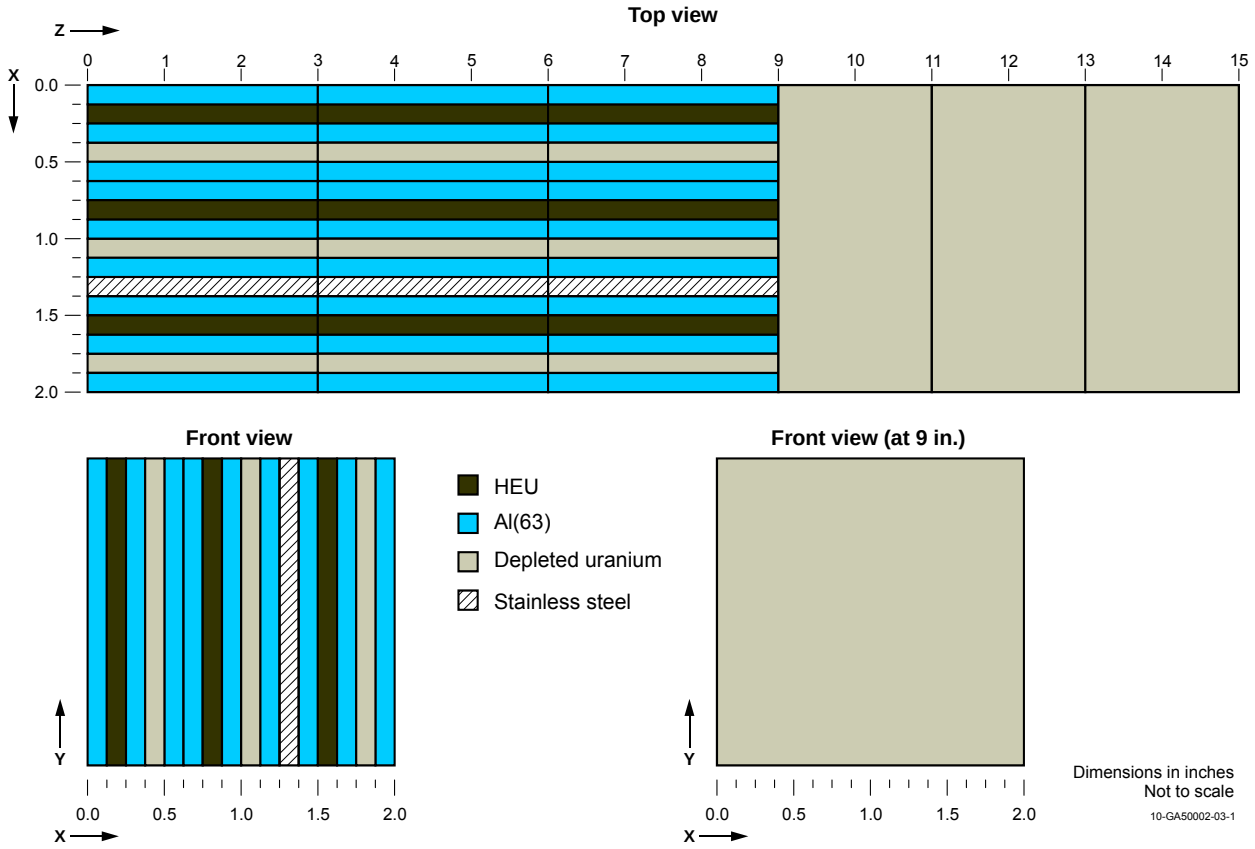

Figure 4. Loading Pattern for ZPR-3/6F Normal Core Drawer Master SP-1.[b]

[a] It was tradition to refer to blanket or reflector materials loaded behind (i.e., axially beyond) the core loading as "axial" regions. For the unique effort to simulate a spherical core, these "axial" regions formed radial reflector.

[b] The Y-dimension is 2.0 inches in Figure 4.

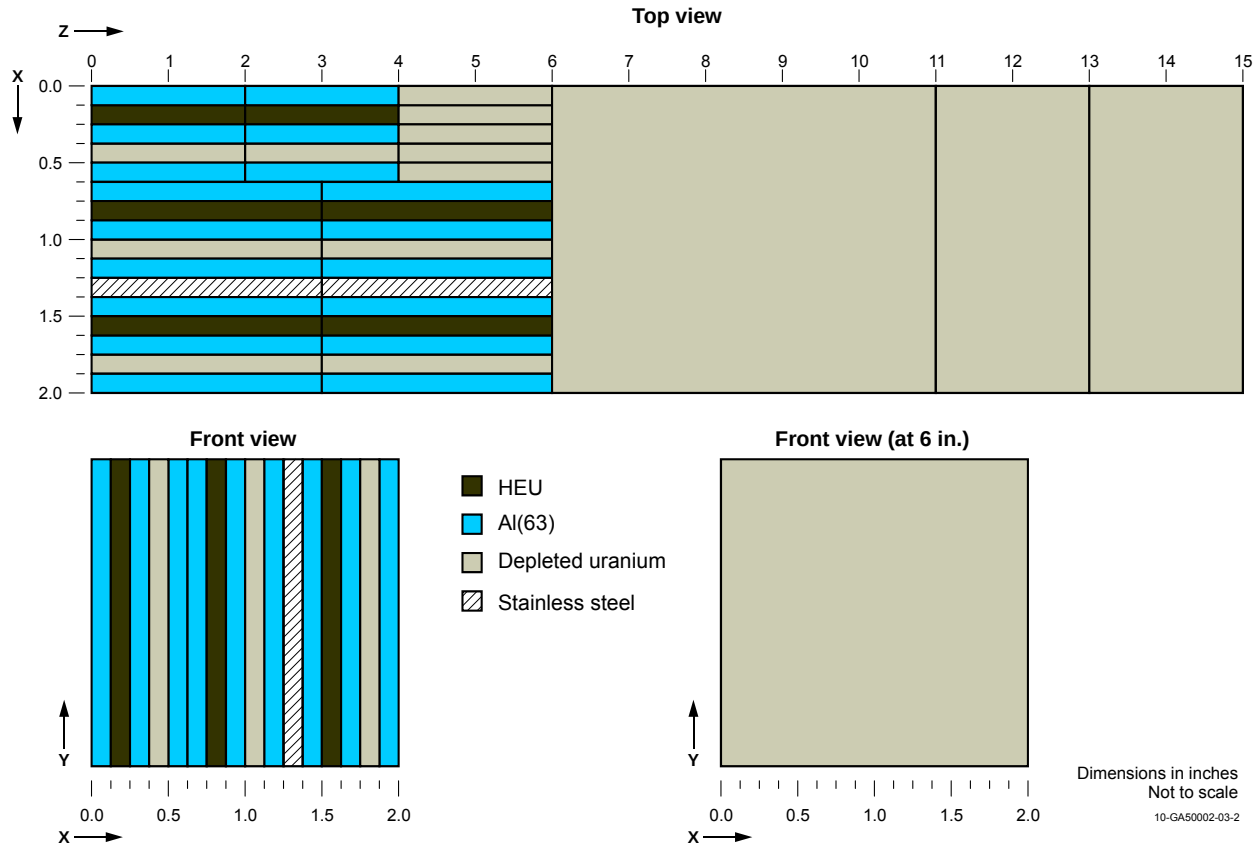

Figure 5. Loading Pattern for ZPR-3/6F Partial Core Drawer Master SP-17.[a]

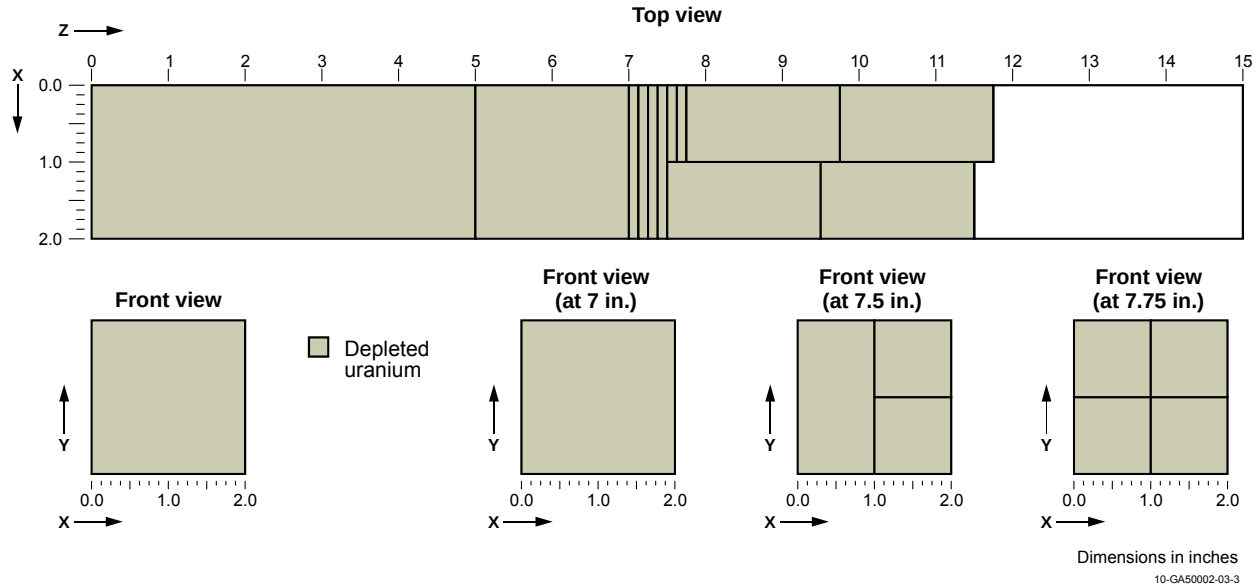

Figure 6. Loading Patterns for ZPR-3/6F Back Drawer Master SB-8.[a]

[a] The Y-dimension is 2.0 inches in Figure 5 and Figure 6.

Detailed matrix loading maps for the stationary and movable halves of ZPR-3/6F loading 5 are shown in Tables 1 - 4. More precisely, Tables 1 and 2 show the front- and back-drawer matrix loadings, respectively, for half 1, the stationary half. Tables 3 and 4 show the front- and back-drawer matrix loadings, respectively, for half 2, the movable half. Matrix column 1 is on the left side of all of these tables. This implies that the view in all of these tables is looking from the movable half (half 2) towards the stationary half (half 1).

Since the DP control rod drawer was long enough to accommodate both the core and the axial reflector, there were no actual back drawers behind the DP drawers. The "x" symbols shown in the back-drawer maps for the DP rod positions represent the drive shafts attached to the backs of the DP drawers.[a]

The depleted uranium blocks in the radial reflector were loaded directly into the matrix tubes without drawers. The front drawer maps (Tables 1 and 3) show the drawer masters for the radial reflector, which encompass the full axial height of the radial reflector. Consequently, the back drawer maps in Tables 2 and 4 show only the actual back drawers behind the 15.25 in. front drawers and the drive shafts of the DP drawers.

A unique one-character or two-digit symbol is used to represent each drawer master in Tables 1 - 4. The two-digit numbers in Tables 1 and 3 are the front drawer masters, and the uppercase letters in these tables are the drawer masters in the radial reflector positions. The lowercase letters in Tables 2 and 4 are the back drawer masters. Empty spaces in Tables 1 and 3 represent empty matrix tubes.

Table 5 and Table B.1 in Appendix B are used to define completely the drawer master represented by each of the symbols. Table 5 gives the correspondence between the one- or two-character symbols in Tables 1 – 4 and the multi-character drawer master identifiers that appear on the archived drawer master diagrams. Table 5 also gives the length and type of each drawer, and how many of each drawer master type were in ZPR-3/6F loading 5. Drawers of length 15.25 in. are front drawers, while drawers of length 17.25 in. are back drawers. The "partial" designation in Table 5 indicates that this drawer master contained both core material and reflector material in the first nine inches. Partial drawers were used to provide a closer approximation of a spherical boundary at the core periphery. Because of the complications involved in simulating a spherical core with rectangular plates in a square matrix, ZPR-3/6F had far more unique drawer masters (both front and back) than would normally be the case in a ZPR-3 assembly.

An additional complication in ZPR-3/6F relates to the pairing of front and back drawer masters. In most ZPR assemblies, there were only a few back drawer masters, so each back drawer master might be paired with a number of different front drawer masters, and each front drawer master was paired with only one back drawer master. However, because of the complications involved in simulating a sphere in ZPR-3, some front drawer masters in ZPR-3/6F were paired with different back drawer masters in different core locations.

[a] An easy way to identify the control drawer positions is to look for "x" in the back-drawer maps or look in the front-drawer maps for a master number in the 70s.

Table 1. ZPR-3/6F Loading 5 - Stationary Half Front Drawer Matrix Map.

→ X / ↓ Y	COLUMN																														
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
A													A	A	A	A	A	A	A												
B																															
C																															
D																															
E													A	A	A	A	A	A	A												
F										A	A	A	B	B	B	B	B	B	B	A	A	A									
G									A	A	B	B	C	C	C	C	C	C	C	B	B	A	A								
H								A	A	B	C	C	C	D	D	D	D	D	C	C	C	B	A	A							
I							A	A	B	C	C	D	D	E	E	E	E	E	D	D	C	C	B	A	A						
J						A	A	B	C	D	D	E	E	F	F	F	F	F	E	E	D	D	C	B	A	A					
K						A	B	C	C	D	E	F	F	G	G	G	G	G	F	F	E	D	C	C	B	A					
L						A	B	C	D	E	F	F	G	32	27	23	27	31	G	F	F	E	D	C	B	A					
M					A	B	C	C	D	E	F	G	40	19	15	14	15	19	39	G	F	E	D	C	C	B	A				
N					A	B	C	D	E	F	G	33	21	72	07	06	07	72	22	38	G	F	E	D	C	B	A				
R O					A	B	C	D	E	F	G	29	17	10	02	01	03	11	18	30	G	F	E	D	C	B	A				
O P					A	B	C	D	E	F	G	25	14	06	01	01	01	06	14	26	G	F	E	D	C	B	A				
W Q					A	B	C	D	E	F	G	29	17	10	05	01	04	11	18	30	G	F	E	D	C	B	A				
R					A	B	C	D	E	F	G	34	73	13	08	06	08	13	74	37	G	F	E	D	C	B	A				
S					A	B	C	C	D	E	F	G	41	20	16	14	16	20	42	G	F	E	D	C	C	B	A				
T						A	B	C	D	E	F	F	G	35	28	76	28	36	G	F	F	E	D	C	B	A					
U						A	B	C	C	D	E	F	F	G	G	G	G	G	F	F	E	D	C	C	B	A					
V						A	A	B	C	D	D	E	E	F	F	F	F	F	E	E	D	D	C	B	A	A					
W							A	A	B	C	C	D	D	E	E	E	E	E	D	D	C	C	B	A	A						
X								A	A	B	C	C	C	D	D	D	D	D	C	C	C	B	A	A							
Y									A	A	B	B	C	C	C	C	C	C	C	B	B	A	A								
Z										A	A	A	B	B	B	B	B	B	B	A	A	A									
AA													A	A	A	A	A	A	A												
BB																															
CC																															
DD																															
EE																															

Table 2. ZPR-3/6F Loading 5 - Stationary Half Back Drawer Matrix Map.

→ X / ↓ Y	COLUMN																														
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
A																															
B																															
C																															
D																															
E																															
F																															
G																															
H																															
I																															
J																															
K																															
L														u	u	u	u	u													
M												u	t	s	s	s	t	u													
N											u	t	x	m	i	m	x	t	u												
R O											u	p	k	f	b	f	l	q	u												
O P											u	p	g	d	a	e	h	q	u												
W Q											u	p	k	f	c	f	l	q	u												
R											u	x	o	n	j	n	o	x	u												
S												u	t	r	r	r	t	u													
T													u	u	x	u	u														
U																															
V																															
W																															
X																															
Y																															
Z																															
AA																															
BB																															
CC																															
DD																															
EE																															

Table 3. ZPR-3/6F Loading 5 - Movable Half Front Drawer Matrix Map.

→ X / ↓ Y	COLUMN																														
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
A													A	A	A	A	A	A	A												
B																															
C																															
D																															
E													A	A	A	A	A	A	A												
F										A	A	A	B	B	B	B	B	B	B	A	A	A									
G									A	A	B	B	C	C	C	C	C	C	C	B	B	A	A								
H								A	A	B	C	C	C	D	D	D	D	D	C	C	C	B	A	A							
I							A	A	B	C	C	D	D	E	E	E	E	E	D	D	C	C	B	A	A						
J						A	A	B	C	D	D	E	E	F	F	F	F	F	E	E	D	D	C	B	A	A					
K						A	B	C	C	D	E	F	F	G	G	G	G	G	F	F	E	D	C	C	B	A					
L						A	B	C	D	E	F	F	G	31	27	23	27	32	G	F	F	E	D	C	B	A					
M					A	B	C	C	D	E	F	G	39	19	15	14	15	19	40	G	F	E	D	C	C	B	A					
N					A	B	C	D	E	F	G	38	22	72	07	06	07	72	21	33	G	F	E	D	C	B	A					
R O					A	B	C	D	E	F	G	30	18	11	03	01	02	10	17	29	G	F	E	D	C	B	A					
O P					A	B	C	D	E	F	G	26	14	06	01	71	01	06	14	25	G	F	E	D	C	B	A					
W Q					A	B	C	D	E	F	G	30	18	11	04	01	05	10	17	29	G	F	E	D	C	B	A					
R					A	B	C	D	E	F	G	37	74	13	08	06	08	13	73	34	G	F	E	D	C	B	A					
S					A	B	C	C	D	E	F	G	42	20	16	14	16	20	41	G	F	E	D	C	C	B	A					
T						A	B	C	D	E	F	F	G	36	28	24	28	35	G	F	F	E	D	C	B	A					
U						A	B	C	C	D	E	F	F	G	G	G	G	G	F	F	E	D	C	C	B	A					
V						A	A	B	C	D	D	E	E	F	F	F	F	F	E	E	D	D	C	B	A	A					
W							A	A	B	C	C	D	D	E	E	E	E	E	D	D	C	C	B	A	A						
X								A	A	B	C	C	C	D	D	D	D	D	C	C	C	B	A	A							
Y									A	A	B	B	C	C	C	C	C	C	C	B	B	A	A								
Z										A	A	A	B	B	B	B	B	B	B	A	A	A									
AA													A	A	A	A	A	A	A												
BB																															
CC																															
DD																															
EE																															

Table 4. ZPR-3/6F Loading 5 - Movable Half Back Drawer Matrix Map.

→ X / ↓ Y	COLUMN																														
	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1	2	2	2	2	2	2	2	2	2	3	3
	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1	2	3	4	5	6	7	8	9	0	1
A																															
B																															
C																															
D																															
E																															
F																															
G																															
H																															
I																															
J																															
K																															
L														u	u	u	u	u													
M												u	t	s	s	s	t	u													
N											u	t	x	m	i	m	x	t	u												
R O											u	p	k	f	b	f	l	q	u												
O P											u	p	g	d	x	e	h	q	u												
W Q											u	p	k	f	c	f	l	q	u												
R											u	x	o	n	j	n	o	x	u												
S												u	t	r	r	r	t	u													
T													u	u	u	u	u														
U																															
V																															
W																															
X																															
Y																															
Z																															
AA																															
BB																															
CC																															
DD																															
EE																															

Table 5. Drawer Identification and Type Data.

Identification Symbol	Drawer Master Identifier	Role of Drawer	Length (inches)	Number in ZPR-3/6F Loading 5
Core Drawer Masters				
01	SP-1	Normal Core	15.25	9
02	SP-2	Normal Core/Partial	15.25	2
03	SP-3	Normal Core/Partial	15.25	2
04	SP-4	Normal Core/Partial	15.25	2
05	SP-5	Normal Core/Partial	15.25	2
06	SP-6	Normal Core/Partial	15.25	8
07	SP-7	Normal Core/Partial	15.25	4
08	SP-8	Normal Core/Partial	15.25	4
10	SP-10	Normal Core/Partial	15.25	4
11	SP-11	Normal Core/Partial	15.25	4
13	SP-13	Normal Core/Partial	15.25	4
14	SP-14	Normal Core/Partial	15.25	8
15	SP-15	Normal Core/Partial	15.25	4
16	SP-16	Normal Core/Partial	15.25	4
17	SP-17	Normal Core/Partial	15.25	4
18	SP-18	Normal Core/Partial	15.25	4
19	SP-19	Normal Core/Partial	15.25	4
20	SP-20	Normal Core/Partial	15.25	4
21	SP-21	Normal Core/Partial	15.25	2
22	SP-22	Normal Core/Partial	15.25	2
23	SP-23	Normal Core/Partial	15.25	2
24	SP-24	Normal Core/Partial	15.25	1
25	SP-25	Normal Core/Partial	15.25	2
26	SP-26	Normal Core/Partial	15.25	2
27	SP-27	Normal Core/Partial	15.25	4
28	SP-28	Normal Core/Partial	15.25	4
29	SP-29	Normal Core/Partial	15.25	4
30	SP-30	Normal Core/Partial	15.25	4
31	SP-31	Normal Core/Partial	15.25	2
32	SP-32	Normal Core/Partial	15.25	2
33	SP-33	Normal Core/Partial	15.25	2
34	SP-34	Normal Core/Partial	15.25	2
35	SP-35	Normal Core/Partial	15.25	2
36	SP-36	Normal Core/Partial	15.25	2
37	SP-37	Normal Core/Partial	15.25	2
38	SP-38	Normal Core/Partial	15.25	2
39	SP-39	Normal Core/Partial	15.25	2
40	SP-40	Normal Core/Partial	15.25	2
41	SP-41	Normal Core/Partial	15.25	2
42	SP-42	Normal Core/Partial	15.25	2

Table 5 (cont'd). Drawer Identification and Type Data.

Control Rod Drawer Masters				
71	SP-C1	DP Safety/Control Rod	32.50	1
72	SP-C2	DP Safety/Control Rod	32.50	4
73	SP-C3	DP Safety/Control Rod	32.50	2
74	SP-C4	DP Safety/Control Rod	32.50	2
76	SP-C6	DP Safety/Control Rod	32.50	1
x	Drive shaft	DP Drive Shaft	-----	10
Radial Reflector Drawer Masters				
A	RR-7	Radial Reflector	7.00	160
B	RR-10	Radial Reflector	10.00	112
C	RR-15	Radial Reflector	15.00	136
D	RR-17	Radial Reflector	17.00	96
E	RR-20	Radial Reflector	20.00	80
F	RR-22	Radial Reflector	22.00	80
G	RR-24	Radial Reflector	24.00	56
Axial Reflector Back Drawer Masters				
a	SB-1	Axial Reflector	17.25	
b	SB-2	Axial Reflector	17.25	
c	SB-3	Axial Reflector	17.25	
d	SB-4	Axial Reflector	17.25	
e	SB-5	Axial Reflector	17.25	
f	SB-6	Axial Reflector	17.25	
g	SB-7	Axial Reflector	17.25	
h	SB-8	Axial Reflector	17.25	
i	SB-9	Axial Reflector	17.25	
j	SB-10	Axial Reflector	17.25	
k	SB-11	Axial Reflector	17.25	
l	SB-12	Axial Reflector	17.25	
m	SB-13	Axial Reflector	17.25	
n	SB-14	Axial Reflector	17.25	
o	SB-15	Axial Reflector	17.25	
p	SB-16	Axial Reflector	17.25	
q	SB-17	Axial Reflector	17.25	
r	SB-18	Axial Reflector	17.25	
s	SB-19	Axial Reflector	17.25	
t	SB-20	Axial Reflector	17.25	
u	SB-21	Axial Reflector	17.25	

Table 6 provides the drawer plate loading description for drawer master SP-1. Table B.1 in Appendix B provides the drawer plate loading description for each drawer master used in ZPR-3/6F loading 5. The information in Table 6 is provided to accompany the explanation of the interpretation of the drawer plate loading descriptions in Table B.1. All dimensions and locations in Table 6 and Table B.1 are in inch units.

There is a header row starting the description of each drawer master. The header gives the one-character or two-character identification symbol and the multi-character identifier of the drawer master. Each remaining

Table 6. Drawer Plate Loading Description for ZPR-3/6F Drawer Master SP-1.[(a)]

Plate ID (dimension in inches)	Starting X Location	Starting Y Location	Starting Z Location	X #	Y #	Z #	Rotation
Identification Symbol 01, Drawer Master SP-1, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	3	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	3	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	3	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	3	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	3	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	3	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	3	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	3	1
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1

(a) All dimensions and locations are in inch units.

row for the drawer master describes a contiguous block of identical plates. The row gives a) the plate name and nominal dimensions, b) the starting position of the block, c) the number of plates in the block in each direction, and d) a rotation code (spatial orientation) for the block of plates. Table 6 and Table B.1 do not include the small spring placed in the back of each normal drawer to push the plates toward the front of the drawer.

Most plates were loaded with the standard orientation, designated by rotation code 1. Consider, for example, the 1/8x2x3 in. Al-63% plate in Table 6. The standard orientation is that the first plate dimension (1/8 in.) is in the X-direction, the second plate dimension (2 in.) is in the Y-direction and the third plate dimension (3 in.) is in the Z-direction. The following plate rotations or orientations were required for the drawer loadings in ZPR-3/6F:

1 – Standard orientation,
2 – 90 degree rotation about Z-axis and 90 degree rotation about Y-axis,
3 – 90 degree rotation about Z-axis and 90 degree rotation about X-axis,
4 – 90 degree rotation about X-axis,
5 – 90 degree rotation about Z-axis, and
6 – 90 degree rotation about Y-axis.

It should be noted that the number of decimal places in the starting locations in Table 6 and Table B.1 does not mean that those locations were known that accurately. Rather, it reflects the fact that some ZPR plate types had thicknesses of 0.0625 in., so the code that produces Table 6 and Table B.1 must accommodate more than three decimal places for some assemblies. Thus, despite the displayed precision, the locations shown in Table 6 and Table B.1 are just nominal locations.

Unless otherwise noted for a specific case, the first dimension for any plate, drawer or other rectangular object is the X-dimension, the second dimension is the Y-dimension and the third dimension is the Z-dimension.

For example, for a plate with listed dimensions of 1/8 x 2 x3 in., 1/8 in. is the X-dimension, 2 in. is the Y-dimension and 3 in. is the Z-dimension. This applies throughout this document.

If the drawer master appears in both a stationary-half and a movable-half matrix map (Tables 1 – 4), then the starting X location of the block must be transformed when the master is used in the movable half. The header row of all such drawer masters includes a warning to that effect. The starting X location can be used directly in all other cases. The transformation is specified where the table is interpreted below.

The interpretation of the information given in Table 6 and Table B.1 will be illustrated by explaining drawer master SP-1 described in Table 6 with the aid of the loading pattern diagram in Figure 7 below. Note that Figure 7 is a duplicate of Figure 4 above and is reproduced here for the convenience of the reader. Figure 7 presents an X-Z view, i.e., looking down at the top of this drawer master, and shows the columns of plates. (The drawer itself is not shown – only its contents.) The origin of the drawer master coordinate system is at the front lower left corner of the space inside the drawer, which is near the upper left corner of the figure. The X-axis is along the drawer width and is divided in eighth-inch units from zero to two inches (16 eighths). The Z-axis is along the drawer length and goes from zero to 15 inches in inch units.[a] The Y-axis is transverse to the page, pointing towards the viewer, and the range encompassing the plate loading is from zero to two inches. The plates displayed in Figure 7 are 2 inches tall.

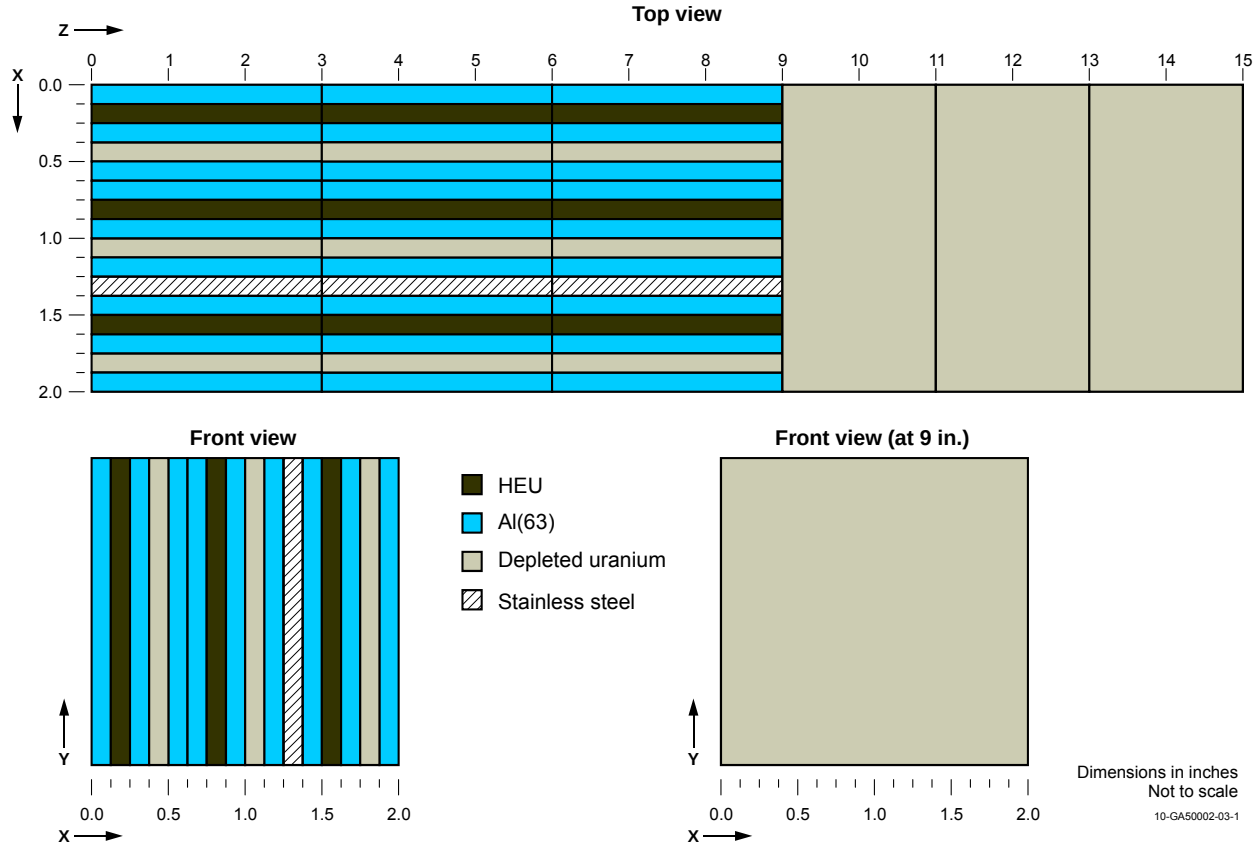

Figure 7. Loading Pattern for ZPR-3/6F Drawer Master SP-1.

[a] Note that the coordinate convention for ZPR assemblies is unusual in that the Z direction is horizontal, not vertical.

For each row the plate ID gives an approximate indication of the plate material. A full composition description is given in Section 1.3. The remaining columns of Table 6 give the starting position of the plate within the drawer, the number of contiguous plates in each direction and the rotation parameter.

The drawer master in Table 6 is SP-1, identification symbol 01. This is a normal core drawer. In the core region, which extends from 0 to 9 in., columns 1, 3, 5, 6, 8, 10, 12, 14 and 16 each consist of three contiguous 1/8x2x3 in. perforated aluminum plates (63% of nominal aluminum density when homogenized). Columns 2, 7 and 13 each consist of three contiguous 1/8x2x3 in. highly enriched uranium (HEU) plates. Columns 4, 9 and 15 each consist of three contiguous 1/8x2x3 in. depleted uranium plates. Column 11 consists of three contiguous 1/8x2x3 in. stainless steel plates. The last six inches of the drawer, which extends from 9 in. to 15 in., is occupied by three 2x2x2 in. depleted uranium blocks. These blocks form the first 6 in. of the axial reflector. Table 6, Table B.1 and Figure 7 do not show the small retainer spring at the back of the drawer. This spring pushed the plates forward to eliminate any gap between the front of the plates and the front plate of the drawer.

In using these loading data, one must keep in mind the difference between the convention for identifying matrix positions in the two halves and the convention for viewing drawer masters in the two halves. It was noted in Section 1.2.1 that, for both halves, the matrix column number (essentially the X-coordinate) is counted from the left when looking from the movable half towards the stationary half. In contrast, the origin of the drawer master coordinates is at the left edge of the plates when looking from the matrix interface (Z=0) towards the matrix half that contains the drawer. The perspective is the same in both conventions for the stationary half but opposite for the movable half.

ZPR-3/6F was built early enough in the history of the ZPR-3 facility operations that the supervisors and technicians who loaded the drawers were responsible for interpreting drawer masters differently depending on where drawers were to be loaded. At that time, it was allowed to define a single drawer master for use in loading positions in both halves of the matrix, even when the master was asymmetric about the X midplane. In working from such a drawer master, the person loading a drawer destined for the stationary half would follow the drawer master exactly as presented. But, if the drawer based on that master was destined for the movable half, the person would have to load plate columns in opposite order in the X direction to what appeared in the drawer master. A further complication was that this need to reverse the drawer master order of plate columns only applied to drawer masters that were used for both matrix halves; if the drawer master was used only for drawers in the movable half, it was defined to be read as is. Later on in the history of ZPR-3—as well as during the entire history of ZPR-6, ZPR-9 and ZPPR—it was required that different drawer masters be defined for each half (with the possible exception of symmetric drawer masters), presumably because the early system presented an unnecessary risk of a loading error.

A consequence of the effort to be faithful to what the loading records actually show is that the reader gets to share in the potential confusion created by this early system. As noted in the paragraph immediately preceding Table 6, drawer masters subject to this X-direction-reversal requirement are identified as such in their header row. When using one of these drawer masters to represent a drawer in the movable half, the printed Starting X Location number is transformed as follows: take the tabulated value, add to it the nominal plate width (from the first column) and subtract that sum from 2.0000. For example, in the first drawer master in Table B.1, SP-1, the starting X location of the stainless steel plates becomes 2.0000 – (1.2500 + 0.1250) = 0.6250. Consider Figure 7, the drawing of this same drawer master. For insertion into the stationary half, the drawer would be loaded exactly as shown in Figure 7. For a drawer to be loaded into the movable half, the order of the plate columns would be reversed; for instance the stainless steel plates would be loaded to the left of center rather than to the right of center. Reversing the loading order in the drawer for the movable half ensures that like columns of plates align when the two halves of the matrix are brought together.

Although the loading data in this subsection are complete and well suited for processing with a computer, they obviously are cumbersome to interpret by hand. An interpretation of the geometric region implications of the data is offered in the next subsection.

1.2.3 Characteristics of the Assembly Regions - When the early ZPR-3 assemblies were built, analytical capabilities and calculational tools were extremely limited. At that time simple spherical, cylindrical and slab models were the only practical options for analyzing many of the critical assemblies. The partial drawer shown in Figure 5 was used to smooth the core boundary, reduce edge effects and improve the spherical approximation.

The loading of ZPR-3/6F was unusually complicated for a ZPR assembly. Simulating a spherical core with rectangular plates in a square matrix required large numbers of different front, back and radial reflector drawer masters. Loading 5 of the ZPR-3/6F assembly also required an unusually large number of unique front drawer master-back drawer master pairings. In most ZPR assemblies, there are a few drawer masters that make up most of the core and a few drawer masters that make up most of the axial and radial blankets or reflectors. In ZPR-3/6F, however, there were no drawer masters that dominated any large part of the core or reflector.

There were no perturbations to the core and axial reflector except for the small composition deviation in the DP rod locations. There were a few minor perturbations in the radial reflector—source tube drawer master and detector drawer master— but all of these were outside the core. The geometry was about as close to spherical as possible. The thick depleted uranium radial and axial reflectors made room return insignificant.

1.2.4 Measurement Technique and Excess Reactivity - Excess reactivity is the system reactivity when all control elements are in their most reactive positions. Excess reactivities in ZPR-3/6F were measured with a calibrated control rod. No information concerning the method used to calibrate the control rods is available.

The reference critical configuration had DP control drawer #10, which was in matrix position S-T/16, withdrawn 2.164 in. when the reactor was at the reference power level. The other nine DP drawers were fully inserted. The average of the three thermocouple readings listed in the logbook was 18.4 °C. No measured temperature coefficient for ZPR-3/6F has been found.

No reported excess reactivity has been found for ZPR-3/6F loading 5. Determination of the excess reactivity from the position of DP control drawer #10 is discussed in Section 2.

1.3 Description of Material Data

Composition data presented here were taken from several sources. Some of the composition data were taken from the electronic plate material library (ADEN library). These data are essentially the same as those in the most recent issue of a ZPR/ZPPR working document referred to informally as the “hot constants memo.” That issue was first released in 1983, after all of the other ZPR facilities were shut down, and was updated periodically until the shutdown of ZPPR.

Earlier versions of the hot constants memo—from ZPR-3, from the early period of ZPR-6&9, and the final (1978) version from ZPR-6&9—were consulted to resolve ambiguities about material description details, to infer which “lot” of material could have been used in ZPR-3/6F and to supply data missing from the ADEN library. Specifically, it was necessary to consult earlier documents because the depleted uranium plates used in ZPR-3/6F were replaced in 1962. Consequently, the depleted uranium plates used in ZPR-3/6F are not listed in the last ZPPR hot constants memo or the ADEN library. Data for the depleted uranium plates were taken from the earliest available ZPR-3 hot constants memo. Appendix A of the published ZPR-3/48

document ANL-7759 also has relevant composition and geometry details. In the case of ambiguities, preference was given to the data source closest in time to the date of the experiment.

The original documentation on most of the inventory used in ZPR-3/6F has been lost. The hot constants memos (and the ADEN library) give average compositions by batch or lot, which are what are given in the tables below. The memos do not give uncertainties, and the issue of estimating composition uncertainties is addressed in Section 2.

This section also contains material dimensions, some details of which were not presented in Section 1.2. Available data on wall thicknesses of plate cladding and drawers were collected in the 1980s and put into an electronic cladding library. That is the source of such data presented here. Plate outer dimensions given below are the nominal values from the hot constants memos, which are all that are available, except in rare instances. **In all tables in this section, dimensions are provided in units of inches.**

Most masses and weight percents in the inventory are time invariant, with the only significant exceptions being those for ^{241}Pu and ^{241}Am. Since these time-dependent nuclides were not present in ZPR-3/6F, there is no decay date issue here.

Table 7 shows the mass and composition information for the four types of HEU plates present in the ZPR-3/6F loading 5 core. The number of plates shown in this and similar tables is the number used in loading 5. The HEU plates were coated with Kel-F, a paint-like protective coating applied to minimize corrosion and material loss during handling. The average mass of Kel-F per plate was 0.083 g for 1/8x2x3 in. plates, 0.057 g for 1/8x2x2 in. plates, 0.030 g for 1/8x2x1 in. plates and 0.017 g for 1/8x2x1/2 in. plates. Table 8 shows the composition of Kel-F. The mass values for H, C, F and Cl in Table 7 are the average masses of Kel-F per plate listed in the preceding sentence multiplied by the weight percents listed in Table 8. The actual thickness of the Kel-F coating on the plates is not known.

Table 7. HEU Plate Compositions.

Plate ID	HEU (1/8x2x3)	HEU (1/8x2x2)	HEU (1/8x2x1)	HEU (1/8x2x1/2)
Nominal Size (in.)	0.125x2.0x3.0	0.125x2.0x2.0	0.125x2.0x1.0	0.125x2.0x0.5
Number of Plates	426	293	50	20
Element	Mass (g)	Mass (g)	Mass (g)	Mass (g)
^{234}U	2.0058	1.3031	0.6583	0.3217
^{235}U	206.1900	134.2100	67.2200	32.8500
^{236}U	0.9698	0.6301	0.3183	0.1556
^{238}U	11.9244	7.7468	3.9134	1.9127
H	0.00041	0.00029	0.00015	0.00009
C	0.01710	0.01174	0.00618	0.00350
F	0.04017	0.02759	0.01452	0.00823
Cl	0.02532	0.01738	0.00915	0.00518

Table 8. Kel-F Composition.

Element	Weight Percent
Hydrogen	0.5
Carbon	20.6
Chlorine	30.5
Fluorine	48.4

Tables 9 and 10 show the composition information for the depleted uranium plates used in the core, axial reflector and radial reflector. The hot constants memos and ADEN library only list a combined mass of ^{234}U and ^{238}U for the depleted uranium plates. No additional information regarding the ^{234}U is available.

The depleted uranium plates were coated with Kel-F. The average mass of Kel-F per plate was 0.083 g for 1/8x2x3 in. plates, 0.057 g for 1/8x2x2 in. plates, 0.030 g for 1/8x2x1 in. plates and 0.017 g for 1/8x1/2x2 in. plates in Table 9. The average mass of Kel-F per plate was 0.063 g for 1x1x2 in. plates, 0.088 g for 1x1x3 in. plates, 0.14 g for 1x1x5 in. plates, 0.15 g for 2x2x2 in. plates and 0.30 g for 2x2x5 in. plates in Table 10. The mass values for H, C, F and Cl in Tables 9 and 10 are the average masses of Kel-F per plate listed in the preceding sentences multiplied by the weight percents listed in Table 8.

Table 9. Depleted Uranium Plate Compositions for the Core and Reflectors.

Plate ID	Depleted U (1/8x2x3)	Depleted U (1/8x2x2)	Depleted U (1/8x2x1)	Depleted U (1/8x1/2x2)
Nominal Size (in.)	0.125x2.0x3.0	0.125x2.0x2.0	0.125x2.0x1.0	0.125x0.5x2.0
Number of Plates	916	1732	622	132
Element	Mass (g)	Mass (g)	Mass (g)	Mass (g)
^{235}U	0.45	0.30	0.15	0.08
^{238}U	221.46	147.94	72.60	36.11
H	0.00042	0.00029	0.00015	0.00009
C	0.01710	0.01174	0.00618	0.00350
F	0.04017	0.02759	0.01452	0.00823
Cl	0.02532	0.01738	0.00915	0.00518

Table 10. Depleted Uranium Plate Compositions for the Reflectors.

Plate ID	Depleted U (1x1x2)	Depleted U (1x1x3)	Depleted U (1x1x5)	Depleted U (2x2x2)	Depleted U (2x2x5)
Nominal Size (in.)	1.0x1.0x2.0	1.0x1.0x3.0	1.0x1.0x5.0	2.0x2.0x2.0	2.0x2.0x5.0
Number of Plates	558	6	28	1032	2145
Element	Mass (g)	Mass (g)	Mass (g)	Mass (g)	Mass (g)
^{235}U	1.23	1.84	3.07	4.92	12.36
^{238}U	613.77	918.16	1528.93	2453.08	6167.64
H	0.00032	0.00044	0.00070	0.00075	0.00150
C	0.01298	0.01813	0.02884	0.03090	0.06180
F	0.03049	0.04259	0.06776	0.07260	0.14520
Cl	0.01922	0.02684	0.04270	0.04575	0.09150

Table 11 shows the composition information for the four types of aluminum plates used in the core. These plates were perforated to reduce the average plate density to 63% of the nominal density of aluminum metal.

Table 11. Mass and Composition Information for the Aluminum Plates.

Plate ID	Al-63% (1/8x2x3)	Al-63% (1/8x2x2)	Al-63% (1/8x2x1)	Al-63% (1/8x2x1/2)
Nominal Size (in.)	0.125x2.0x3.0	0.125x2.0x2.0	0.125x2.0x1.0	0.125x1.0x1.0
Number of Plates	1278	899	150	84
Element	Mass (g)	Mass (g)	Mass (g)	Mass (g)
Al	20.31	13.51	6.74	3.31

Table 12 shows the composition information for the four types of stainless steel plates used in the ZPR-3/6F core.

Table 12. Stainless Steel Plate Compositions for the Core.

Plate ID	Stainless Steel (1/8x1/2x2)	Stainless Steel (1/8x1x2)	Stainless Steel (1/8x2x2)	Stainless Steel (1/8x2x3)
Nominal Size (in.)	0.125x0.5x2.0	0.125x1.0x2.0	0.125x2.0x2.0	0.125x2.0x3.0
Number of Plates	8	16	105	123
Element	Mass (g)	Mass (g)	Mass (g)	Mass (g)
C	0.009	0.020	0.037	0.056
Si	0.062	0.124	0.248	0.373
P	0.004	0.008	0.015	0.023
S	0.002	0.005	0.010	0.014
Cr	2.336	4.702	9.353	14.085
Mn	0.170	0.342	0.681	1.026
Fe	11.564	23.277	46.300	69.727
Ni	1.253	2.522	5.017	7.556
Cu	0.031	0.062	0.124	0.187
Mo	0.039	0.078	0.155	0.233

Slightly different compositions for the Type 304 stainless steel drawers and matrix tubes are given in different documents. These are shown in Table 13. Only the first composition totals to 100 wt.%. The stainless steel compositions listed in Table 13 differ from current (2010) standard specifications for Type 304 stainless steel and may differ from the standard specifications for this steel in the early 1950s when the drawers and matrix tubes were fabricated. The compositions listed in Table 13 are the values reported by the experimenters and are the values used by ZPR-3 personnel for planning and analysis of experiments.

The masses and dimensions of the stainless steel drawer components and of the matrix tubes that are given explicitly in Appendix A of ANL-7759 are shown in Table 14. The ZPR-3 hot constants memos give no drawer component dimensions but give the same masses. Explicit data are not given in either reference for drawer back plates or the DP compartment divider, but values can be inferred. The mass is per inch of length in the Z-direction for the matrix tube and for drawer bottoms+sides. The normal steel drawer components had smaller masses than the DP drawer components because the DP drawer walls were twice as thick and were unperforated, while the normal steel drawers were perforated. The first dimension in Table 14 is the X-dimension (width), the second dimension in Table 14 is the Y-dimension (height), and the third dimension in Table 14 is the Z-dimension (thickness or length).

Table 13. Element Wt% Data for Type 304 Stainless Steel Drawers and Matrix Tubes.

Source	Component	Fe	Cr	Ni	Mn	Si	Total
ANL-7759, Appendix A[(a)]	plate-drawer-tube average	73.4	17.0	8.4	0.75	0.45	100.0
ZPR-3 Hot Constants[(b)]	plate-drawer-tube average	71.4	17.0	8.4	0.74	0.44	98.0
ZPR-3 Hot Constants[(b)]	matrix tubes	72.0	16.9	7.8	0.7	0.50	97.9
ZPR-3 Hot Constants[(b)]	drawers	70.0	17.4	9.6	1.5	0.36	98.9

(a) A. M. Broomfield *et al*, "ZPR-3 Assemblies 48, 48A, and 48B: The Study of a Dilute Plutonium-fueled Assembly and Its Variants," Argonne National Laboratory Report ANL-7759, December 1970.
(b) W. P. Murphy and R. Rowberry, ZPR-3 Hot Constants Memo, July 14, 1966.

Table 14. Mass and Dimensions of Stainless Steel DP Drawer and Matrix Components.

Plate ID	DP Front Plate	DP Bottom + Sides[(a)]	Matrix Tube[(a)]
Outside Dimensions (in.)	2.001x2.063x0.063	2.001x2.063x1 (0.063 wall)	2.1835x2.1755x1 (0.040 wall)
Mass (g)	31.00	48.44	44.64

(a) Mass per inch of length for bottoms+sides of drawers and for the matrix tube.

Each DP drawer is divided into two compartments by a small plate at Z = 15.25 in., and each DP drawer is connected to a control rod drive by a shaft attached to the back of the drawer. No further information has been discovered regarding the dimensions or compositions of these components. The divider plate was represented in the as-built ZPR-3/6F model by a 1.75 x 2.0 x 0.0625 in. steel plate containing 0.006 g C, 0.071 g Si, 5.620 g Cr, 0.440 g Mn, 21.246 g Fe, 3.356 g Ni, 0.012 g Cu and 0.003 g Mo. The DP control rod drive shaft was represented in the as-built ZPR-3/6F model by a column of 0.25 x 2 x 1 in. steel plates containing 0.030 g C, 0.170 g Si, 11.677 g Cr, 0.954 g Mn, 44.258 g Fe, 5.437 g Ni, 0.130 g Cu and 0.260 g Mo per plate.

The front and back drawers used in ZPR-3/6F were the 15.25 in. aluminum front drawers and 17.25 in. aluminum back drawers. These drawers were made of unperforated aluminum with a thickness of 0.040 in. Table 15 gives the masses and dimensions of the aluminum drawers. According to the hot constants memos, the aluminum front drawer and back drawer had total masses of 65.21 g and 89.49 g, respectively. The front drawer mass is consistent with the listed mass per inch for the bottom+sides and with 2.6 g masses for the front plate and back plate. For the back drawer, the listed mass per inch for the bottom+sides and 2.6 g front plate mass imply that the mass of the back plate plus the handle at the back of the back drawer was approximately 19 g. This seems very high, and no explanation for this discrepancy has been found.

Table 15. Mass and Dimensions of Aluminum Drawers.

Plate ID	Aluminum Front Plate	Aluminum Bottom+Sides[(a)]
Outside Dimensions	2.064x2.035x0.040	2.064x2.035x1 (0.040 wall)
Mass (g)	2.6	3.95

(a) Mass per inch of length for bottoms+sides of drawers and for the matrix tube.

The retainer springs were made of mild steel. The mass by element for a spring is: 9.862 g Fe, 0.097 g C. One retainer spring was used at the back of each normal front or back drawer. To prevent any plate shifting under acceleration or deceleration of the DP control rod drawers, as many retainer springs as possible (up to four) were pressed into the gap at the back of each of the two compartments of each DP drawer.[a]

1.4 Supplemental Experimental Measurements

A list of experiments performed in ZPR-3/6F is given below.

- Criticality.
- Central spectral indices.
- Rossi alpha.
- Small sample worths.

This list was compiled from the loading records and logbook. The only available data for measurements other than criticality are summarized in the Cross Section Evaluation Working Group Benchmark Specifications[b]. Available information is not sufficient to evaluate any measurements other than criticality.

[a] J. M. Gasidlo, Private Communication, April 9, 2009.
[b] Cross Section Evaluation Working Group Benchmark Specifications, BNL-19302, Vol. II, (ENDF 202) (September 1986).

2.0 EVALUATION OF EXPERIMENTAL DATA

The reactivity effects of many of the uncertainties discussed below were quantified using TWODANT[a] (two-dimensional S_N code) with spherical models of the benchmark. The radial boundaries preserved the volumes of the core, reflector and empty matrix tubes of the X-Y-Z geometry as-built model. The calculations used cross sections derived from ENDF/B-V.2 data that were processed using the Argonne cross section processing codes ETOE-2/MC^2-2/SDX.[b] The eigenvalue convergence criterion was 10^{-7}, which allowed any non-negligible effect ($> 10^{-4}\Delta k$) to be computed explicitly with a pair of TWODANT calculations. The uncertainties are displayed in units of %Δk (100 times the change in k_{eff}). For consistency in accounting, they are displayed to four decimal places, even though that level of precision is not always justified on physical grounds.

The uncertainties affecting criticality have been divided into three broad categories. They are uncertainties associated with 1) measurement technique, 2) geometry, and 3) compositions. Each category is considered in turn and then the combined experimental uncertainty is presented. Two adjustments to the measured excess reactivity are also identified. Each uncertainty estimate is one standard deviation.

2.1 Measurement Technique Uncertainties

Excess reactivities in ZPR-3/6F were measured with calibrated control rods. Details regarding the calibration technique are not available. The reference critical configuration had DP control drawer #10 withdrawn 2.164 inches (5.497 cm) when the reactor was at the reference power level. The other nine DP drawers were fully inserted. The average of the three thermocouple readings listed in the logbook was 18.4 °C. No measured temperature coefficient for ZPR-3/6F has been found.

No reported excess reactivity has been found for ZPR-3/6F, so the excess reactivity was computed by continuous energy Monte Carlo as the difference between k_{eff} for the as-built model with all DP rods fully inserted and k_{eff} for the as-built model with DP control rod #10 withdrawn 2.164 in. The computed excess reactivity for ZPR-3/6F loading 5 is 0.0651 ± 0.0042 %Δk based on one billion histories for each configuration. This uncertainty is just the Monte Carlo statistical uncertainty. Uncertainties in cross section data make an additional contribution. The DP rod withdrawal worth is similar to the central worth of the core composition, which typically can be computed quite accurately by k-difference. The 1σ uncertainty on this quantity is estimated to be no more than 3% of the worth. The combined uncertainty, then, is ± 0.0062 %Δk.

There also are a few uncertainty contributions associated with the core temperature. It was acknowledged, in an internal report,[c] that the thermocouple average was not the true core average, although it was a reliable parameter to measure changes in true core-average temperature. During the early programs at ZPR-3, there was only one thermocouple in each half of the matrix. However, the logbook entries for the critical ZPR-3/6F loadings consistently list three temperatures. It is not known where the third thermocouple was located in ZPR-3/6F.

The logbook entries for the temperature are 17.3 °C, 19.8 °C and 18.0 °C. One-half of the range of the three measured temperatures (1.25 °C) is taken to represent ±1σ of the true core temperature. No measured temperature coefficient has been found for ZPR-3/6F, so the Argonne cross section processing codes discussed above were used with the TWODANT model to compute a temperature coefficient for ZPR-3/6F.

[a] R. E. Alcouffe, F. W. Brinkley, D. R. Marr, and R. D. O'Dell, "User's Guide for TWODANT: A Code Package for Two-Dimensional, Diffusion-Accelerated, Neutral-Particle, Transport," LA-10049-M, Revised February 1, 1990.

[b] B. J. Toppel, H. Henryson II, and C. G. Stenberg, "ETOE-II/MC^2-2/SDX Multigroup Cross Section Processing," RSIC Seminar Workshop on Multigroup Cross Sections, ORNL, March 14, 1978.

[c] W. G. Davey and R. L. McVean, Private Communication, March 1969.

The computed temperature coefficient was -3.571 x 10^{-4} %Δk/°C. Using this temperature coefficient with the 1.25 °C temperature uncertainty yields a reactivity uncertainty of ±0.0004 %Δk.

The uncertainty in the calibration of the TCs, which is a systematic uncertainty, is estimated to be 0.5 °C. This converts to a ±0.0002 %Δk uncertainty in excess reactivity. When added in quadrature with the ±0.0004 %Δk averaging uncertainty from above, the combined uncertainty is ±0.0005 %Δk. This value is negligible compared to other uncertainties discussed below, so further effort with respect to refining temperature uncertainties is not warranted.

The final core temperature issue is that the temperature distribution in the core changed when the matrix halves closed. It took significant time to establish the new asymptotic distribution and, "in those days," sufficient time was not always allowed.[a] According to the logbook, the reactor startup occurred at 15:00 on January 4, 1957. The decay heat source in ZPR-3/6F was very small because of the very long half-lives of the uranium isotopes that made up the radioactive components of the core composition. Given the short operating time and the low decay heat source, it does not seem likely that core heating over the duration of the measurement would be a significant issue. For this startup, the asymptotic temperature uncertainty effect is assumed to be less than 0.001 %Δk.

Estimates of the configuration reproducibility uncertainty are not available. In ZPR-3/56B (see MIX-COMP-FAST-004, Section 2.1), ±2.5 Ih (±0.0059 %Δk) was adopted as a reasonable 1σ estimate of the reproducibility uncertainty based on repeated measurements. The recorded temperatures are much more uniform in ZPR-3/6F than they are in ZPR-3/56B, and the decay heat source in ZPR-3/6F is much smaller than the decay heat source in ZPR-3/56B. It is likely that the ZPR-3/56B results would bound the ZPR-3/6F case. Dividing this bounding value by √3 yields the 1σ uncertainty ± 0.0034 %Δk as the estimated reproducibility uncertainty for ZPR-3/6F. This uncertainty is small relative to uncertainties related to geometry and composition, so further refinement of the worth of the reproducibility uncertainty is not warranted.

The conversion from the natural measurement units, inhours[b] (Ih), to units of k_{eff} requires knowledge of the delayed neutron kinetics parameters, particularly β_{eff}. The estimated uncertainty in the reactivity conversion factor was 5% in previous ICSBEP benchmarks for ZPR assemblies. That value will be used here for consistency. This uncertainty is normally applied to the measured excess reactivity which usually was reported in units of inhours for ZPR assemblies.

In the present case no reported excess reactivity was found, so the excess reactivity was computed as the difference in reactivity between the as-built model with all rods fully inserted and the as-built model with DP control rod #10 withdrawn 2.164 in., the reported critical rod position. A reported excess reactivity corresponds to the difference between these two configurations. Likewise, no measured temperature coefficient was found, so a temperature coefficient was computed for ZPR-3/6F. The calculated excess reactivity and the reactivity uncertainties associated with the temperature uncertainties are in units of k_{eff}, so there is no need to apply the uncertainty in the reactivity conversion factor to the computed excess reactivity or to the temperature uncertainties.

If, for simplicity, the 5% uncertainty in the conversion factor is applied to the uncertainty related to reproducibility, the contribution of the uncertainty in the reactivity conversion is ±0.0002 %Δk. This value is negligible compared to geometry and composition uncertainties, so further refinement of the reactivity conversion uncertainty is not worthwhile.

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[a] J. M. Gasidlo, Private Communication, April 9, 2009.

[b] An inhour (Ih) is a unit of reactivity defined as the amount of positive reactivity corresponding to an asymptotic power rise with a time constant or period of one hour. Reactivity is rarely (if ever) reported in inhours today, but the inhour was a common unit for measuring and reporting reactivity during the period when ZPR-3 operated.

2.2 Geometry Uncertainties

Because the matrix halves were not perfectly aligned, there was a small gap between the two halves, even at the nominal full closure position. There could also be a small gap because of uncertainty in the actual position of the movable half at full closure relative to the position indicated by the instruments. Typically, the actual physical gap varied from 0 to 30 mils (0.0 – 0.8 mm). As-built and benchmark models do not include an interface gap because of its small, non-uniform and imprecisely known size. Consequently, a gap correction is derived here in conjunction with the gap uncertainty analysis, and the correction is applied to the calculated k_{eff} in Section 3.5.

No measured gap coefficient of reactivity has been located, so the worth of the gap was computed by continuous energy Monte Carlo as the difference between k_{eff} for the as-built model with a small gap between the halves and k_{eff} for the as-built model with no gap. The computed gap worth for ZPR-3/6F loading 5 with an average gap of 0.4 mm is -0.0554 ± 0.0042 %Δk based on one billion histories for each configuration. The estimated 1σ uncertainty in the gap width is 0.1 mm, making the total uncertainty in both the gap worth and the gap closure correction ± 0.0145 %Δk.

Besides the interface gap, there are three issues regarding the exact location of materials. One is the possibility that the drawer fronts might not have been flush with the front edge of the matrix tubes. Care was taken to make the drawers flush with the matrix, and the drawer-tab — matrix-tube-notch design feature made that easy for fuel handlers. Another issue is the possibility that the plate columns might not have been all the way forward against the drawer front. This problem was minimized by taking care to do this when loading the plates in drawers, by using springs to hold the plates there, and by inserting the drawer tabs into the matrix tube notches slowly. These two issues are assumed to be covered by the interface gap uncertainty.

The third issue to consider is deviations from nominal dimensions for plates, drawers, and matrix tubes. Deviations in the dimensions that affect the precise X- and Y-positions of materials within the unit cell are too small to impact k_{eff} significantly. The dimensions that determine the volumes over which the material masses are distributed can have an effect. The plate lengths, drawer front thickness, and the length of front drawers affect the axial positions of materials, similar to the interface gap effect. It is estimated that the uncertainties in these dimensions collectively have no larger effect than 50% of the interface gap effect; accordingly, an uncertainty of ±0.0277 %Δk was assigned.

A deviation from the nominal average spacing between matrix tubes also would affect the region volumes. At the ZPR-3 facility, measurements were made of the average spacing with the matrix filled. The average pitch was measured in 1959 to be 2.1835 inches wide and 2.1755 inches high. These were reported as typical values, and it was noted that the values may change with assembly loading.[a] It is estimated that the error in these measurements is ±1 mil, i.e., ±0.001 in. (see ICSBEP benchmark IEU-MET-FAST-012, Section 2.2). The implied change in reactivity was estimated by computing the resulting change in k_{eff} using TWODANT calculations of the benchmark model with the nominal matrix pitch and with the matrix pitch increased and decreased by 1 mil (0.0254 mm). Compositions were adjusted to preserve mass when the matrix pitch was changed. The estimated reactivity effect is ± 0.0410 %Δk.

One final consideration with regard to axial-positioning uncertainties relates to the actual positions of the DP rods, which were fully inserted for the benchmark configuration. This uncertainty, negligibly small compared to the uncertainty components discussed above, is covered by the measurement uncertainties provided in Section 2.1.

[a] L. H. Berkes, ZPR-3 Hot Constants Memo, March 31, 1960.

An adjustment and an uncertainty are needed for room return of neutrons to the assembly. The assembly description above encompasses only the matrix tubes and their contents. An upper bound for the room return effect was computed by adding 15 cm of steel radially to the TWODANT spherical model. The result, 0.0020 %Δk, is negligibly small and is treated as a negative adjustment to the benchmark k_{eff} (relative to the experimental k_{eff}). The associated uncertainty, assumed to be 50% of the computed value, i.e., ± 0.0010 %Δk, will be included in the adjustments discussed in Section 3.5.

2.3 Composition Uncertainties

A bit of history about the materials inventory records is needed to appreciate the extent and limitations of the information available on the compositions used in ZPR-3/6F. The material inventory for Argonne's ZPR facilities was accumulated over a period of more than three decades, starting in the mid-1950s. The procurement acceptance process required thorough documentation on dimensions, masses, composition, etc. of the various core components. Information needed for day-to-day operations was extracted and compiled in working documents known informally as "hot constants memos." These memos give batch or lot average values of dimensions, masses, and weight percents of constituents but no uncertainties. The original documentation on most of the inventory used in ZPR-3/6F has been lost, but the hot constants documents are available. Consequently, indirect evidence and estimates were used to quantify many of the composition uncertainties. Compositions given in these hot constants documents are used directly. That is, weight fractions are not adjusted or renormalized to sum to 100%.

The composition uncertainty for a component is treated in two parts, the uncertainty in total mass and the uncertainty in the weight percents of the constituents. Since these two sources of uncertainty are independent, they are added in quadrature. The reactivity effect of the composition uncertainty was determined by computing the change in k_{eff} using the TWODANT model of the benchmark. In some cases sensitivity coefficients computed with this model were used and in other cases the specific perturbation was calculated explicitly.

The details of the mass measurements are unknown. For the plates and most of the drawers it is assumed that measurements of masses were within 0.01 g of actual value for plates of up to tens of grams and within 1 g for larger plates weighing kilograms, i.e., the uncertainty in weighing was 0.1%. The working standard used to calibrate the scale is taken to have an uncertainty of 0.05%, which is a systematic uncertainty. The uncertainty in weighing could be statistical, but since no details of the process are available, we assume this also to be a systematic uncertainty, making a total uncertainty in mass of 0.15%. Mass uncertainty assumptions made for other items are specified as needed.

ZPR-3/6F was built using a very limited number of materials. The only materials which could contribute in a significant way to the composition uncertainties are the HEU plates, depleted uranium plates, aluminum plates, stainless steel plates, Kel-F coating on the HEU and depleted uranium plates, stainless steel DP drawers, the stainless steel matrix and the aluminum front and back drawers. Masses and compositions for all of these materials are known reasonably well.

There are three sources of evidence currently available regarding the uncertainties in the isotopic weight percents for the enriched uranium. One is a 1982 internal memorandum on the uncertainty in a measurement that used 1/16 x 2 x 3 in. plates. These values are shown (rounded to 2 decimal places) in the third column of Table 16 (following the typical wt.%, which are shown in the second column). It quotes an enrichment of 93.17 ± 0.02 wt.% observed in selected Special Materials records. This quoted uncertainty appears reasonable. In fact, it is believed the enrichment for any single fuel fabrication batch may have been known even better. However, because of the large inventory of 93% enriched uranium fuel, it was derived from many fuel batches. The enrichment uncertainty values quoted in these Special Materials records are consistent with the second source, which is a series of recent (1996) mass-spectroscopy measurements on 1/16-inch plates. The quoted uncertainties in measurement of the uranium weight fractions for a single

sample were 1%, 0.25%, 2.5%, and 0.5% for ^{234}U, ^{235}U, ^{236}U, and ^{238}U, respectively. The observed consistency among 20 samples is much better than the quoted measurement uncertainties. The fourth column of Table 16 shows estimated uncertainties based on the standard deviation of the distribution of these measured values. Review of a limited number of mass-spectroscopy measurements on 1/8-inch plates indicates a similar consistency of the measured values with the mean enrichment values. Finally, an estimate of the uncertainties in the weight fractions for this enriched uranium can be inferred from the distribution of the enrichment values given in the ZPPR hot constants memo. The ^{235}U weight percent values range from 93.05 – 93.30. These values appear to have a normal distribution with approximately 70% of the values within ±0.05% of their mean value. Estimated uncertainty values based on the distribution of these quoted enrichments, shown in the final column of Table 16, are consistent with the previous values and would appear to cover possible systematic uncertainties without adding unnecessary conservatism. Because the sum of the uranium isotopic fractions should be 100.0%, the uncertainty in the ^{238}U weight fractions is also assumed to be ±0.05 wt.%.

The reactivity effect due to the uncertainty in the enriched uranium isotopic fractions was calculated directly using a TWODANT model of the benchmark. The ^{235}U mass was increased by 0.05 wt.% of the uranium mass and the ^{238}U mass was reduced correspondingly. This produced an uncertainty of ±0.0245 %Δk. Although the 0.05 wt.% uncertainty estimate is itself uncertain, its computed reactivity effect is so small that a reasonable revision of the wt.% estimate clearly would also yield an unimportant reactivity effect. The component uncertainties of ^{234}U and ^{236}U (also based on corresponding changes in ^{238}U mass) were ±0.0020 %Δk and ±0.0002 %Δk, respectively.

Table 16. Enriched-Uranium Uncertainty Data.

Isotope	(Nominal Value) wt.%	Uncertainty,[(a)] wt.%	Uncertainty,[(b)] wt.%	Uncertainty,[(c)] wt.%
^{234}U	(0.91)	± 0.01	± 0.01	± 0.01
^{235}U	(93.17)	± 0.02	± 0.02	± 0.05
^{236}U	(0.44)	± 0.01	± 0.01	± 0.01
^{238}U	(5.48)	± 0.03	± 0.02	± 0.05

(a) Uncertainty values quoted in SPM records.
(b) Uncertainty values estimated from distribution of recent (1996) mass spectroscopy measurements.
(c) Uncertainty values estimated from distribution of enrichments listed in hot constants memo.

The impurity levels in the enriched uranium were estimated from recent chemical analyses of the plate material. Information on the analyses associated with the procurement of the uranium plates is no longer available and the hot constants memos do not list any impurities. However, chemical analysis results are available from a recent process to recover the enriched uranium from fuel plates damaged by corrosion. Analysis reports were obtained for 20 samples, each of which was analyzed for 18 impurities. The 18 analytes do not include the corrosion impurities, oxygen and hydrogen. The analysis reports indicate that, "Less-than values are limits of quantification, which are ten times the minimum detection limit." From an examination of the 20 reports, it was judged that large variations in the quantification limit and a sparsity of values beyond the quantification limit preclude the determination of a reliable weight ppm value for nine of the impurities. An example is cadmium, for which the quantification limit ranges from 10 to 70 ppm over the 20 samples and there is no value beyond the quantification limit. For each of the other nine measured impurities, there are at least six ppm values beyond the quantification limit and the other quantification limits are consistent. An example is nickel, for which there are 16 values, ranging from 120 to 220 ppm, that are beyond the quantification limit, and there are four reports giving only "less-than values" (quantification limits), which range from 180 to 290 ppm. By averaging the values beyond the quantification limit, the

following nine weight ppm estimates were obtained: C 340, Ni 174, Fe 125, Cu 65, Na 63, Ca 40, Si 35, Al 30, Mn 13.

This collection of nine impurity values, which total to 885 weight ppm, was taken to be a reasonable approximation to the initial impurity level in the enriched uranium. On the one hand, it tends to be an underestimate because it does not include any contribution from the nine other analytes or from elements that were not analyzed. On the other hand, it tends to be an overestimate because some of the measured carbon came from the recovery processes, which occurred after the plates were used in the assembly. Apparently, little carbon was introduced by the recovery processes, since the carbon value is typical for enriched uranium. It is assumed that these opposing effects approximately balance and it is estimated that a one-sigma uncertainty of 50% applies to this impurity model.

The reported impurity levels for the Godiva critical assembly provide some evidence that at least the estimated total impurity level in the enriched uranium plates is reasonable.[a] Godiva was composed of "virgin material", whose estimated total impurity level is ≈400 weight ppm, comprised primarily of C at 160 ppm, Si at 110 ppm and Fe at 70 ppm. It is further stated in LA-4208 that "recycled material" has impurity levels that are about twice as large. The ZPR enriched uranium apparently was made from recycled material, given the presence of ^{236}U, and the adopted 885 ppm impurity estimate is consistent with the ≈800 ppm estimate in LA-4208.

The effect of the estimated enriched uranium impurities was calculated directly with TWODANT. Since the presence of the impurities was neglected in the reference model, the perturbation consisted of adding the nine impurities and reducing the enriched uranium to preserve mass. The computed effect of including the impurities is -0.0320 %Δk, implying that increasing the benchmark k_{eff} (relative to the experimental k_{eff}) by this amount would compensate for the omission of the impurities from the model. The 50% uncertainty in the impurity level corresponds to ±0.0160 %Δk, which must be added in quadrature with the other k_{eff} uncertainty components.

The effect of changing the mass of the enriched uranium by the assumed 0.15% uncertainty was calculated directly with TWODANT. The result is ±0.0728 %Δk.

The uncertainty for the Kel-F coating on the HEU plates is dominated by the possibility that some flaked off in handling the plates. It is assumed, pessimistically, that 10% of the coating could have been lost. The computed worth of removing 10% of the Kel-F from the HEU plates is 0.0012 %Δk. For convenience this is not treated as a one-sided uncertainty.

Adding in quadrature the uranium mass, enrichment, impurity and Kel-F mass uncertainty effects yields a k_{eff} uncertainty contribution associated with the HEU plates of ±0.0784 %Δk. The net adjustment for the benchmark k_{eff} for impurities in the HEU is -0.0320 %Δk.

Each unit cell in the core contained three columns of 0.125 in. (0.3175 cm) HEU plates and three columns of 0.125 in. (0.3175 cm) depleted uranium plates. The radial and axial reflectors consisted of approximately 12 in. (30.5 cm) of depleted uranium plates. The assumed 0.15% uncertainty in the mass of the depleted uranium plates in the core and reflectors was calculated to have a ±0.0194 %Δk effect.

The uncertainty in the ^{235}U wt.% in the depleted uranium plates is taken to be 0.02% (about 10% of the ^{235}U wt.%) from information given in the hot constants memos. The ^{235}U concentration was increased by this

[a] G. E. Hansen and H. C. Paxton, "Reevaluated Critical Specifications of Some Los Alamos Fast-Neutron Systems," LA-4208, Los Alamos Scientific Laboratory (1969).

amount, and the ^{238}U concentration was decreased to preserve total uranium mass. The resulting uncertainty in k_{eff} is ±0.0490 %Δk.

There is no information concerning impurities in the depleted uranium plates, so a 0.042 wt.% contamination of iron was assumed based on an impurity level of 0.042 wt.% listed in the hot constants memos for depleted U_3O_8. The computed uncertainty in k_{eff} equivalent to the assumed iron impurity is 0.0063 %Δk. The uncertainty for the depleted uranium plates is completely dominated by the uncertainty in the ^{235}U content, so further refinement of the depleted uranium impurity level does not seem to be warranted.

The earliest ZPR-3 hot constants memo is not clear regarding Kel-F coating on depleted uranium plates. Subsequent releases of the ZPR-3 hot constants memo clearly show the presence of Kel-F coating on depleted uranium plates. On the other hand, these memos clearly show a titanium oxide coating on graphite plates, an unspecified coating on boron carbide plates and Kel-F coating on iron plates. If it was deemed necessary to coat common materials such as graphite and iron to prevent oxidation and material loss, it seems likely that the depleted uranium plates would have been coated. It could also be the case that some portion of the depleted uranium inventory was coated.

There does not seem to be a way to determine whether all, some or none of the depleted uranium plates were coated at this late date, so a 100% uncertainty was assumed for the Kel-F coating on the depleted uranium plates. The computed worth of removing 100% of the assumed Kel-F from the depleted uranium plates is 0.0100 %Δk. This is a small value compared to the effect of the uncertainty in the ^{235}U content of the depleted uranium plates. The Kel-F uncertainty makes a very small contribution to the total uncertainty for the depleted uranium plates and a negligible contribution to the total uncertainty in Section 2.5. Further effort to refine the Kel-F uncertainty is not warranted.

The quadrature sum of all uncertainties for the depleted uranium plates, i.e., uranium mass, ^{235}U wt.%, impurities and Kel-F mass, is ±0.0540 %Δk.

The assumed 0.15% uncertainty in the mass of the aluminum plates was calculated to have a ±0.0042 %Δk effect. These plates are listed in the ZPR-3 hot constants memo as being 100% aluminum, but there must have been impurities. Very high purity aluminum, 99.99% pure, is commercially available, but it is relatively expensive. It is likely that the aluminum plates used in ZPR-3 were made from a more common grade of aluminum. As a measure of the composition uncertainty, the 100% pure aluminum plates in the TWODANT model were replaced with 99.8% pure aluminum, which is a reasonably common grade. It was assumed that the dominant impurites in the aluminum were 0.1 wt.% iron and 0.1 wt.% silicon. The computed worth of the iron and silicon impurities in the aluminum was 0.0014 %Δk. The quadrature sum of the 1σ mass and impurity uncertainties for the aluminum plates is ±0.0044 %Δk.

The front and back drawers in ZPR-3/6F were made of aluminum. The assumed 0.15% uncertainty in the mass of the front and back drawers was calculated to have a ±0.0009 %Δk effect. The assumed 0.1 wt.% iron impurity and 0.1 wt.% silicon impurity had a computed worth of 0.0002 %Δk. The quadrature sum of the 1σ mass and impurity uncertainties for the aluminum drawers is ±0.0009 %Δk.

The stainless steel components in this assembly are the stainless steel plates in the core, the DP drawers and the matrix tubes. These components are made of Type 304 stainless steel. Rigorously, the uncertainties for all the steel components are uncorrelated and therefore should be evaluated separately. The uncertainty effect was computed for each separable assembly component (matrix tubes, DP drawers, stainless steel plates) and then those results were added in quadrature.

It is estimated that the mass of the matrix tubes is uncertain by 2% and the masses of the other stainless steel components are uncertain by 0.15%. The calculated effect of changing the matrix tube mass by 2% yielded

an uncertainty in k_{eff} of ±0.0310 %Δk. The effects of 0.15% mass changes in the DP drawers and stainless steel plates are ±0.0003 %Δk for the DP drawers and ±0.0008 %Δk for the stainless steel plates.

Table 13 in Section 1.3 shows multiple sets of weight percent data for the stainless steel drawers and matrix tubes. From reading ZPR-3 reports written for later ZPR-3 assemblies, it is clear that stainless steel weight percent differences of the magnitudes shown in Table 13 were not considered significant. It appears that the average composition shown in the first data row of Table 13 was used for all Type 304 stainless steel components in calculations at that time. In contrast, the hot constants compositions for stainless steel plates, DP drawers and matrix tubes were used in the benchmark models presented in Section 3 because these component-specific compositions are believed to be more accurate.

It can be seen that all the other compositions in the table have weight percents that do not account for one to two percent of the composition. Comparing the first two compositions, it can be seen that the only significant difference is a 2 percentage point higher Fe wt.% in the first composition, which is why only the first composition does not have a deficit in total wt.%. It is not known whether the Fe weight percent was adjusted arbitrarily or for well founded reasons. Consequently, the Fe wt.% uncertainties for matrix tubes and drawers are being treated here as Type B, where the range is the difference between the Fe wt.% in the first average composition and the Fe wt.% in the matrix or drawer composition. The standard uncertainty is this range divided by √12, or approximately 1.0%. With the Fe wt.% adjustment issue covered by this uncertainty, it seems most consistent to compute the Fe contributions to the matrix and drawer composition biases for the as-built model using the hot constants average composition (second row of Table 13), which is consistent with the matrix and drawer compositions in having unadjusted Fe.

Table 17 gives the estimated wt.% uncertainty for each element in the Type 304 stainless steel compositions. To put these values in perspective, representative weight percents, specifically the average composition from ANL-7759, are shown in parentheses. The uncertainty for each of the major elements was taken to be 0.2 wt.%, and the uncertainty for Mn in the stainless steel was taken to be 0.075 wt.% (or 10% of the nominal value) for consistency with previous ZPR evaluations. The uncertainty for silicon was assumed to be one half of the last significant figure provided in ANL-7759, due to round-off error.

Table 17. Type 304 Stainless Steel
Weight Percent Uncertainty Data.

Element	Wt.% Uncertainty (ANL-7759 wt.%)
Fe	matrix 0.4, drawers 1.0, all else 0.2 (73.4)
Cr	0.2 (17.0)
Ni	0.2 (8.4)
Mn	0.075 (0.75)
Si	0.005 (0.45)

The k_{eff} uncertainty contributions due to the weight percent uncertainty for the elements comprising the stainless steel were computed by perturbing the reference TWODANT model using the data in Table 17. The results by element and component category are given in Table 18. In all of the perturbations, the reference steel mass in the core was preserved by reducing the atom density of the Fe element in proportion to the modification made to the other element.

Table 18. Contribution from the Stainless Steel wt.% Uncertainty to the k_{eff} Uncertainty (%Δk).

Element	Matrix	DP Drawers	Stainless Steel Plates
Fe	0.0002	0.0001	0.0001
Cr	0.0006	0.0002	0.0002
Ni	0.0002	0.0001	0.0002
Mn	0.0004	0.0002	0.0004
Si	0.0002	<0.0001	<0.0001
Quadrature Sum	0.0008	0.0003	0.0005

The quadrature sum of the steel mass and composition uncertainties for the matrix is 0.0310 %Δk. The quadrature sums for the DP drawers and stainless steel plates are 0.0004 %Δk and 0.0009 %Δk, respectively. The quadrature sum of all the steel mass and composition uncertainties is 0.0310 %Δk, which is totally dominated by the uncertainty in the mass of the matrix tubes.

The quadrature sum of all composition uncertainties, i.e., composition uncertainties for HEU plates, depleted uranium plates, aluminum plates, stainless steel plates, aluminum front drawers, aluminum back drawers and the steel in DP drawers and the matrix tubes, for ZPR-3/6F is 0.1002 %Δk.

2.4 Humidity

A very small adjustment and uncertainty due to the presence of humidity in the air was derived for an earlier ZPR assembly. This was done by comparing calculations with the assembly gaps filled by dry air and by saturated air. The calculated effect, 0.0001% Δk, is assumed to apply to this assembly and will be included simply as an (obviously negligible) uncertainty.

2.5 Combined Uncertainties and Final k_{eff}

All of the uncertainties discussed in the previous sections are collected in Table 19. The uncertainties in the measurement technique are not important. The uncertainties in the geometry category are approximately seven times larger than those in the measurement technique category, and the uncertainties in the composition category are approximately double those in the geometry category. The main sources of uncertainty were found to be the nominal plate and drawer dimensions, matrix tube pitch, HEU plate mass, matrix tube mass and ^{235}U enrichment in HEU and depleted uranium plates. These uncertainties are not correlated.

After including the total uncertainty from Table 19, the excess reactivity was 0.0651 ± 0.1125 %Δk, so the experimental k_{eff} is 1.000651 ± 0.001129. Note that the estimated uncertainty is comparable to the excess reactivity, yet there is no doubt that the assembly was slightly supercritical. The uncertainty estimates are believed to be reasonable. Treating the uncertainties as if they were 1σ of a normal distribution should be acceptable for the purposes of the benchmark models.

Table 19. Summary of Uncertainties in the Experimental k_{eff} for ZPR-3/6F Loading 5.

Source of Uncertainty	Uncertainty in Excess Reactivity, %Δk
Measurement Technique	
Excess Reactivity	0.0062
Inhour to Δk Conversion	0.0002
Temperature Uncertainty	0.0005
Temperature Distribution	0.0010
Reproducibility	0.0034
Subtotal	**0.0072**
Geometry	
Matrix Interface Gap	0.0145
Nominal Plate, Drawer Dimensions	0.0277
Matrix Tube Pitch	0.0410
Subtotal	**0.0516**
Composition	
HEU Plates	0.0784
Depleted Uranium Plates	0.0540
Aluminum Plates	0.0044
Stainless Steel Plates	0.0009
Aluminum Drawers	0.0009
Steel in Matrix Tubes	0.0310
Steel in DP Drawers	0.0004
Humidity	0.0001
Subtotal	**0.1002**
Total	**0.1129**

ZPR-3/6F loading 5 has been determined to be an acceptable criticality-safety benchmark experiment.

3.0 BENCHMARK SPECIFICATIONS

3.1 Description of Model

Even the most casual perusal of Section 1 makes it clear that the as-built model of ZPR-3/6F is much too complicated to be a practical criticality-safety benchmark model without a great amount of simplification. Fortunately, it is possible to eliminate virtually all of the complexity, yielding a simple benchmark model, without losing any of the essential physics. Furthermore, this can be done without compromising the high accuracy of the experiment.

This was accomplished by computing the transformation from the detailed as-built experiment model to the simple benchmark model using the VIM continuous-energy Monte Carlo code.[a] Note that the term "transformation" will be used repeatedly throughout Section 3 and will, in all cases, refer to both the simplification of the model from the as-built platewise heterogeneous experiment model to the homogeneous benchmark model, and also the correction of k_{eff} to account for these simplifications. VIM eigenvalue calculations were made for the as-built model and for the benchmark model. The k_{eff} correction is simply the difference in k_{eff} between the benchmark and as-built models.

The modeling of all the experimental detail was made tractable by the development of the BLDVIM computer code[b] to generate the VIM input files for the as-built model. BLDVIM reads an electronic database containing a description of the ZPR plate and drawer inventory, the assembly drawer masters, and the matrix loading map. The code and database were rewritten for UNIX-based workstations, at which time the values of Avogadro's number and the atomic masses were made to conform to the values recommended by the ICSBEP. The VIM input for the as-built model of ZPR-3/6F loading 5 is provided in Appendix B.

Development of a practical benchmark model of any ZPR assembly starts from an as-built model. Ideally, every geometric and compositional detail of the experimental configuration would be included as faithfully as possible in the as-built model. In reality, details that are both difficult/cumbersome to model and obviously insignificant to k_{eff} are simplified. One example is that perforated drawer walls are replaced with solid walls having the equivalent average density. Another example is that the cladding is smeared into the small clearance gaps between the cladding and the "meat" of a fuel plate for clad plutonium plates.

In addition, the scope of the as-built model is limited to the matrix and its contents, and minor but non-negligible details within the as-built model scope were omitted. The matrix interface gap and impurities in the HEU were discussed in Section 2. The worths derived in Section 2 for the interface gap and HEU impurities are included in Section 3.5 as adjustments to the benchmark k_{eff}.

It needs to be kept in mind that, compared to what the as-built model does include, these deficiencies are few and unimportant. The deficiencies were identified here for completeness and should be kept in perspective. The as-built model is extremely detailed; it represents explicitly every plate, every drawer wall and matrix tube wall, etc.

[a] R. N. Blomquist, R. M. Lell and E. M. Gelbard, "VIM – A Continuous Energy Monte Carlo Code at ANL," A Review of the Theory and Application of Monte Carlo Methods, Proceedings of a Seminar-Workshop, Oak Ridge, TN, April 21-23, 1980, ORNL/RSIC-44, p. 31, August 1980.

[b] R. W. Schaefer, R. D. McKnight and P. J. Collins, "Lessons Learned from Applying VIM to Fast Reactor Critical Experiments," *Proceedings of the Nuclear Criticality Technology Safety Workshop*, San Diego, CA, pp. 129-136, LA-13439-C (1995).

A benchmark model of ZPR-3/6F loading 5 was generated in exactly the same way as was used for previous ZPR benchmarks. The key features retained in the benchmark model are the region-averaged compositions and region volumes. The geometric model is a spherical model that preserves the volumes of the core, radial and axial reflector and empty matrix tubes in the as-built model. Masses of the constituents within these regions are then homogenized to produce the region-averaged compositions, thereby conserving material masses within each region. The VIM output edits for the as-built model included the region-average compositions, which were extracted to construct the benchmark model.

The simplification (afforded by the benchmark model) that yielded by far the greatest elimination of detail was the smearing of plates, drawers, and matrix tubes into homogeneous mixtures. The plate heterogeneity effects, which require much effort to capture accurately in effective homogenized cross sections in a deterministic modeling approach, are included in the Monte Carlo-calculated Δk of the transformation.

This transformation process has been used previously with success. Loadings from the ZPPR-21 assembly were transformed into simple benchmarks for the criticality-safety assessment of Pu-U-Zr fuel treatment at Argonne's Fuel Conditioning Facility (FCF). Using sensitivity calculations and generalized-least-squares fitting, it was shown[a] that the results from this plate critical assembly are consistent with those from the homogeneous assemblies Jezebel and Godiva.

The homogeneous spherical benchmark model resulting from the transformation of the as-built platewise heterogeneous ZPR-3/6F loading 5 model is defined in the remainder of this section.

3.2 Dimensions

Figure 8 shows the benchmark spherical model for ZPR-3/6F loading 5. This model consists of a spherical core with an outer radius of 22.9235 cm surrounded by a concentric reflector shell with an outer radius of 64.0363 cm and a concentric outer shell of empty matrix tubes with an outer radius of 106.1633 cm. The boundary conditions are reflecting at the center (R = 0.0 cm) and vacuum at the outer boundary of the empty matrix tubes (R = 106.1633 cm).

[a] D. N. Olsen, P. J. Collins and S. G. Carpenter, "Experiments of IFR Fuel Criticality in ZPPR-21," *ICNC '91 International Conference on Criticality Safety*, Oxford, UK, September 9-13, 1991.

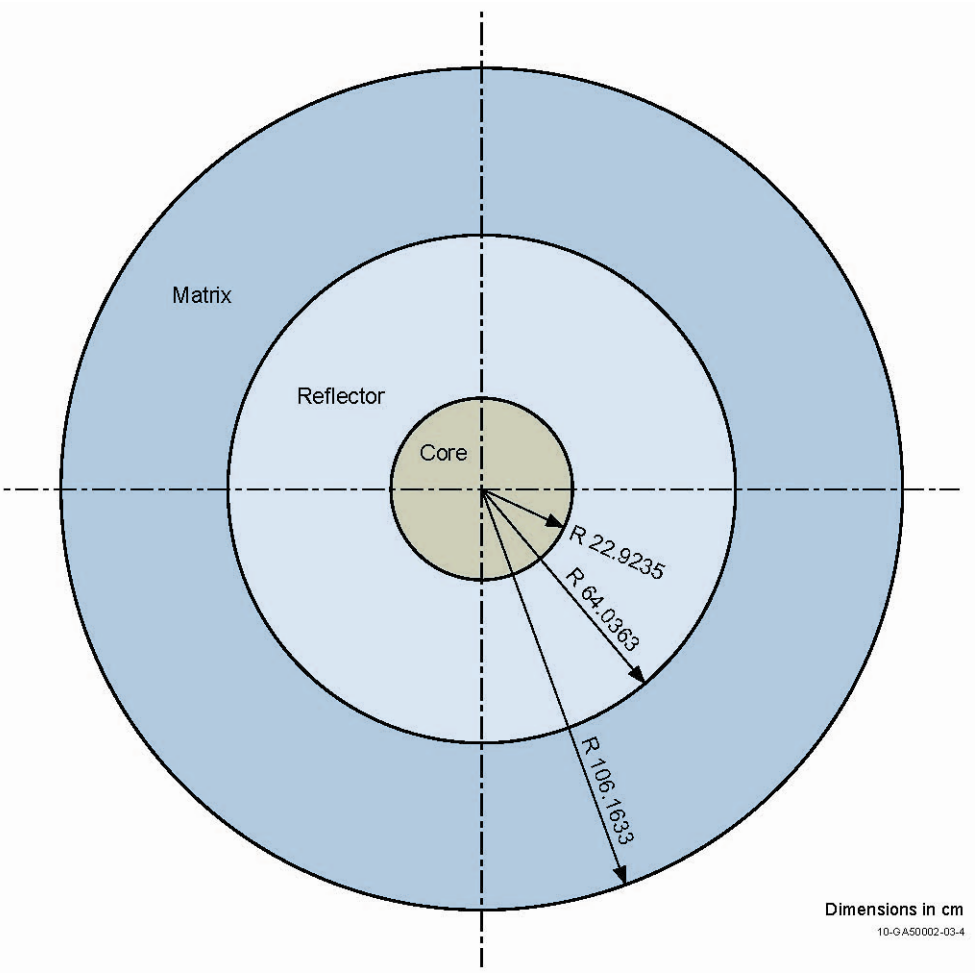

Figure 8. Spherical Benchmark Model for ZPR-3/6F Loading 5.

3.3 Material Data

Table 20 contains the region-dependent composition data for the benchmark model of ZPR-3/6F loading 5.

Table 20. Compositions of the Benchmark Model Regions
of ZPR-3/6F Loading 5 (atoms/barn-cm)

Nuclide	Core	Reflector	Matrix
^{235}U	6.67553E-03	8.08539E-05	0.00000E+00
^{238}U	7.52339E-03	3.98174E-02	0.00000E+00
^{234}U	6.50499E-05	0.00000E+00	0.00000E+00
^{236}U	3.11853E-05	0.00000E+00	0.00000E+00
Cr	1.80393E-03	1.11863E-03	1.10960E-03
Ni	7.88989E-04	4.58739E-04	4.53554E-04
Fe	7.67231E-03	4.57485E-03	4.52968E-03
Al	2.06054E-02	6.85173E-04	0.00000E+00
C	3.31766E-05	1.03291E-05	0.00000E+00
Mo	5.77380E-06	6.45945E-10	0.00000E+00
^{55}Mn	9.45863E-05	4.46723E-05	4.34957E-05
Cu	6.98625E-06	1.64254E-09	0.00000E+00
^{1}H	6.42896E-06	2.79562E-06	0.00000E+00
Si	9.32704E-05	6.09151E-05	6.07700E-05
Cl	1.10858E-05	4.83547E-06	0.00000E+00
^{19}F	3.28265E-05	1.43186E-05	0.00000E+00

For the convenience of readers whose computer codes require total atom densities, the total atom densities for the benchmark compositions in Table 20 are:

1) Core - 4.544992E-02 at/b-cm,
2) Reflector - 4.687326E-02 at/b-cm,
3) Matrix - 6.197096E-03 at/b-cm.

3.4 Temperature Data

The mean temperature of ZPR-3/6F loading 5 during the criticality measurement was 18.4 °C. The temperature coefficient of -3.571 x 10^{-4} %Δk/°C was used to normalize the benchmark k_{eff} to 300 K (27 °C). This is a temperature commonly assumed when processing cross sections. The benchmark (relative to the experimental) excess reactivity must be decreased by 0.0031 %Δk for this adjustment. The benchmark temperature is 300 K (27 °C).

3.5 Experimental and Benchmark-Model k_{eff}

Recall from Section 2.1 that the measurement for which we actually have records was establishment of a critical state for the described assembly with DP Rod #10 withdrawn 2.164 inches and all the other DP (fueled) controls fully inserted. Full insertion of Rod #10 resulted in a small excess reactivity but no records of the excess reactivity or of the Rod #10 calibration were found. Consequently, calculations described in Section 2.1 were used to determine that the excess reactivity was 0.0651 ± 0.0062 %Δk, where this uncertainty reflects the total uncertainty for this pair of calculations. This is the first in a series of six adjustments obtained using high fidelity calculations to get from the experimental criticality records we have to an adjusted "experimental k_{eff}" that can be used with the benchmark model. The total of all uncertainties in this excess reactivity value, which are summarized in Table 19, is 0.1129 %Δk. Thus, the experimental k_{eff} = 1.0007 ± 0.0011.

As described in earlier sections, four small "modeling" adjustments need to be applied to this experimental k_{eff} to make the conditions consistent with the as-built model of ZPR-3/6F loading 5. These adjustments consist of: the neglect of structure beyond the matrix tubes and all their contents (i.e., room return, see Section 2.2); the neglect of the matrix interface gap (see Section 2.2); the neglect of the HEU plate impurities (see Section 2.3); and the adjustment of the temperature to 300 K (see Section 3.4). These adjustments acknowledge that the model we call "as-built" actually models some slightly idealized conditions. The Δk for each model idealization and the net Δk are summarized in Table 21. The net adjustment is only 0.08 %Δk and involves little cancellation of effects. Application of this net adjustment to the experimental k_{eff} yields a value of 1.0015 ± 0.0011, and is referred to as the as-built model k_{eff}. This is basically an experimental result with small calculational adjustments. It is the k_{eff} we aspire to reproduce with calculations of the as-built model.

Table 21. Model Biases to Experimental k_{eff}.[a,b]

Model Bias	%Δk
Room return neglected	-0.0020 ± 0.0010
No interface gap	+0.0554 ± 0.0145[c]
HEU impurities omitted	+0.0320 ± 0.0160[c]
18.4 °C to 27 °C	-0.0031 ± 0.0016[d]
Net Bias	0.0823 ± 0.0019

(a) Resulting from experimental features either altered or neglected in the as-built model.
(b) Biases for room return, HEU impurities and temperature were computed with ENDF/B-V.2 data. The bias for the interface gap was computed with ENDF/B-VII.0 data.
(c) These uncertainties have been included in the experiment uncertainty (see Table 19). To avoid double counting, they are omitted from the uncertainty in the net bias.
(d) Uncertainty assumed to be 50% of reactivity worth.

The sixth and last adjustment to the measured result is the transformation from the as-built model conditions to the benchmark model conditions. The transformation Δk (bias) from the as-built configuration to the benchmark model that was described in Section 3.1 was calculated using the VIM continuous-energy Monte Carlo code. The individual k_{eff} values and the transformation Δk for ZPR-3/6F loading 5 are shown in Table 22. The uncertainties shown are just the statistical standard deviations from VIM using the combined track-length and analog estimators. There are two sets of results – one based on ENDF/B-V.2 and the other based on ENDF/B-VII.0 cross section data.

Table 22. Calculated Eigenvalues for Transformation from As-Built Model to Spherical Benchmark Model for ZPR-3/6F Loading 5.

	As-Built-Model k_{eff}	Benchmark-Model k_{eff}	Transformation Δk (Bias)
VIM (ENDF/B-V.2)	1.0061 ± 0.0003	1.0002 ± 0.0002	-0.0059 ± 0.0004
VIM (ENDF/B-VII.0)	1.0058 ± 0.0003	0.9999 ± 0.0002	-0.0059 ± 0.0004

An estimate of the total uncertainty in the transformation Δk from the as-built platewise heterogeneous critical-assembly model to the homogeneous spherical model is needed. Since there are no significant geometric approximations in the as-built model and there are no cross section processing approximations associated with either model, the only sources of uncertainty added to the original experimental uncertainty come from Monte Carlo statistical precision and the sensitivity of the calculated Δk values to uncertainties in basic cross section data. The major uncertainties in the assembly arise from fission production and absorption in uranium. Uncertainties in the k_{eff} of fast reactor assemblies due to calculations with ENDF/B-V data have been quantified to be in the range of 2% Δk.[a]

Because there is a strong correlation between the heterogeneous-assembly and homogeneous-assembly calculations, the difference in the two calculations can have a much smaller uncertainty than does either individual calculation. That is, the calculations for the transformation Δk value are based on a set of evaluated cross sections applied to two models having identical region-averaged compositions (and therefore having similar neutron energy spectra and similar sensitivities of k_{eff} to the cross sections), and are thus highly correlated. The ensuing uncertainty in the transformation Δk is therefore assumed smaller by more than an order of magnitude, or about ±0.1% Δk. Adding in quadrature the estimated 0.1 %Δk uncertainty due to use of ENDF/B-VII.0 cross sections and the 0.04% uncertainty due to the Monte Carlo statistics yields a total uncertainty in the transformation Δk of ±0.1% Δk.

This uncertainty estimate is believed to be realistic but still sufficiently small for criticality-safety benchmark purposes, i.e., it does not significantly increase the uncertainty in the benchmark representation relative to the actual experiment. For a clean physics benchmark assembly such as ZPR-3/6F, the actual correlations between the calculations of the as-built and simplified models are likely higher than the values assumed in deriving the estimated uncertainty in the transformation. The agreement within the small statistical uncertainty between the calculations using two different cross section files lends support for this expectation.

The experimental and benchmark model k_{eff} values are summarized in Table 23. The data in Table 23 are in units of k_{eff}. The experimental k_{eff}, shown in the first row, is the value obtained earlier in this subsection. The as-built model k_{eff}, shown in the second row, was obtained by modifying the experimental k_{eff} from the first row and the net bias from Table 21, using the uncertainties for room return and temperature adjustment in Table 21 to avoid double counting two uncertainty components. The third row contains the transformation Δk from Table 22 produced using the most modern cross sections available (ENDF/B-VII.0). The transformation Δk is the difference between the final benchmark model k_{eff} and the as-built model k_{eff}. The transformation Δk includes all of the differences between the benchmark model and the as-built experiment except for those listed in Table 21. Adding the transformation Δk to the adjusted experimental k_{eff} yields the benchmark model k_{eff} shown in the last row of the table. It is the k_{eff} against which k_{eff} results calculated using the benchmark model should be compared. The uncertainty in this k_{eff} includes contributions from all sources.

Table 23. Experimental and Benchmark-Model Eigenvalues.[(a)]

	ZPR-3/6F
Experimental k_{eff}	1.0007 ± 0.0011
As-Built Model k_{eff}	1.0015 ± 0.0011
Monte Carlo Transformation of Model	-0.0059 ± 0.0010
Benchmark-Model k_{eff}	0.9956 ± 0.0015

(a) Each uncertainty estimate is one standard deviation.

[a] Table IV in: D. N. Olsen, P. J. Collins and S. G. Carpenter, "Experiments of IFR Fuel Criticality in ZPPR-21," *ICNC '91 International Conference on Criticality Safety*, Oxford, UK, September 9-13, 1991.

4.0 RESULTS OF SAMPLE CALCULATIONS

Results of sample calculations of the benchmark models are given in Table 24 for ZPR-3/6F loading 5. These results are based on accumulating 500 generations with 20,000 neutrons per generation for a total of 10,000,000 histories after skipping 100 initial generations to converge the source. More details of the calculations, including input listings, are given in Appendix A.

Table 24. Sample Calculation Results for ZPR-3/6F Loading 5.

Code (Cross Section Set) → Case ↓	VIM (Continuous Energy ENDF/B-V.2)	VIM (Continuous Energy ENDF/B-VII.0)	MCNP5 (Continuous Energy ENDF/B-VII.0)
ZPR-3/6F Benchmark	1.0002 ± 0.0002	0.9999 ± 0.0002	0.9996 ± 0.0002

Agreement between the benchmark k_{eff} value (0.9956 ± 0.0015) and the calculated results is reasonable (approximately 3σ high) with ENDF/B-V.2 data and ENDF/B-VII.0 data.

5.0 REFERENCES

There are no published references available for this evaluation.

APPENDIX A: TYPICAL INPUT LISTINGS

A.1 KENO Input Listings

Calculations for the ZPR-3/6F benchmark have not been performed using SCALE/KENO.

A.2 MCNP Input Listings

The MCNP5 code was used with the ENDF/B-VII.0 continuous energy cross sections for all nuclides. The calculation used 10 million histories, with 20000 neutron histories per generation and 500 active generations after skipping 100 generations.

```
MCNP5 ENDF/B-VII.0 Input Listing, Table 24.

IEU-MET-FAST-015 - ZPR-3/6F L05 - Benchmark Model - V7 XS
1     1  4.544992e-2  -1  imp:n=1 $ core sphere
2     2  4.687326e-2   1  -2  imp:n=1 $ blanket shell
3     3  6.197096e-3   2  -3  imp:n=1 $ matrix shell
4     0                3  imp:n=0 $ external void

1     so   22.9235
2     so   64.0363
3     so  106.1633

mode  n
kcode  20000  1.0  100  600
sdef   pos=0.0 0.0 0.0  rad=d1  erg=d2  par=1
si1    0.0  22.92
sp2    -2
m001     92235.70c   6.67553E-03     92238.70c   7.52339E-03
         92234.70c   6.50499E-05     92236.70c   3.11853E-05
         24050.70c   7.83810E-05     24052.70c   1.51151E-03
         24053.70c   1.71374E-04     24054.70c   4.26630E-05
         28058.70c   5.38643E-04     28060.70c   2.05926E-04
         28061.70c   8.91559E-06     28062.70c   2.83248E-05
         28064.70c   7.17981E-06     26054.70c   4.44994E-04
         26056.70c   7.03704E-03     26057.70c   1.68791E-04
         26058.70c   2.14824E-05     13027.70c   2.06054E-02
          6000.70c   3.31766E-05     42100.70c   5.56017E-07
         42092.70c   8.56834E-07     42094.70c   5.34078E-07
         42095.70c   9.19189E-07     42096.70c   9.63069E-07
         42097.70c   5.51397E-07     42098.70c   1.39322E-06
         25055.70c   9.45863E-05     29063.70c   4.83239E-06
         29065.70c   2.15386E-06      1001.70c   6.42896E-06
         14028.70c   8.60231E-05     14029.70c   4.36785E-06
         14030.70c   2.87926E-06     17035.70c   8.39971E-06
         17037.70c   2.68609E-06      9019.70c   3.28265E-05
m002     92235.70c   8.08539E-05     92238.70c   3.98174E-02
         24050.70c   4.85926E-05     24052.70c   9.37073E-04
         24053.70c   1.06244E-04     24054.70c   2.64491E-05
         28058.70c   3.13182E-04     28060.70c   1.19731E-04
         28061.70c   5.18376E-06     28062.70c   1.64687E-05
         28064.70c   4.17453E-06     26054.70c   2.65341E-04
         26056.70c   4.19605E-03     26057.70c   1.00647E-04
         26058.70c   1.28096E-05     13027.70c   6.85173E-04
          6000.70c   1.03291E-05     42100.70c   6.22044E-11
         42092.70c   9.58580E-11     42094.70c   5.97499E-11
         42095.70c   1.02834E-10     42096.70c   1.07744E-10
         42097.70c   6.16877E-11     42098.70c   1.55867E-10
         25055.70c   4.46723E-05     29063.70c   1.13615E-09
         29065.70c   5.06395E-10      1001.70c   2.79562E-06
         14028.70c   5.61820E-05     14029.70c   2.85265E-06
         14030.70c   1.88045E-06     17035.70c   3.66383E-06
         17037.70c   1.17164E-06      9019.70c   1.43186E-05
m003     24050.70c   4.82120E-05     24052.70c   9.29732E-04
         24053.70c   1.05411E-04     24054.70c   2.62419E-05
         28058.70c   3.09642E-04     28060.70c   1.18378E-04
         28061.70c   5.12516E-06     28062.70c   1.62826E-05
         28064.70c   4.12734E-06     26054.70c   2.62721E-04
         26056.70c   4.15462E-03     26057.70c   9.96532E-05
         26058.70c   1.26831E-05     25055.70c   4.34957E-05
         14028.70c   5.60482E-05     14029.70c   2.84586E-06
         14030.70c   1.87597E-06
```

MCNP5 ENDF/B-VII.0 Input Listing, Table 24 (Cont'd).

```
phys:n  20.0  0.0
totnu
ctme     9000.0
```

A.3 TWODANT Input Listings

Sample input listings for TWODANT are not provided here because none of the TWODANT calculations utilized standard cross section libraries. However, most of the sensitivity results presented in Section 2 are based on TWODANT calculations which use the ANL code sequence MC^2-2/SDX to generate 20 broad group cross sections appropriate for the regions of the spherical model.

A.4 MONK8B Input Listings

Calculations for the ZPR-3 Assembly 6F benchmark have not been performed using the MONK code.

A.5 VIM Input Listings

This input for the benchmark model was run with Version 5.1 of the VIM code. The ENDF/B-VII.0 continuous-energy cross section data for the isotopes in the model. All the cross sections correspond to 300 K. The VIM calculation used 10 million histories, with 20000 neutron histories per generation and 500 active generations after skipping 100 generations.

```
VIM ENDF/B-VII.0 Input Listing, Table 24.

   111111111IEU-MET-FAST-015 - ZPR-3/6F L005 - Benchmark Model - V7 XS
   500     3     0   100     0     0
 20000 50000    10     0     0     0
     1     1     0     0    50     0
    36     3     3     1     4 50000
 999999999.0 1.00000E-05 2.75000E+02 1.00000E+00 1.00000E-05 1.99900E+07
 9.50000E-01 0.00000E+00 1.00000E+03 0.00000E+00
     1     0     0     0     3     0     0     0     0     1     0
 30300 40300 60300 803002103012103022103032103042203012203032203042203 05      08
220306230301230302230303230304240300270300280301280302280304280305280306      08
280307280308290300340301340302350300380305380306380307540301540302570300      08


     0     0     5
  SPH    1       0.0       0.0       0.0   22.9235
  SPH    2       0.0       0.0       0.0   64.0363
  SPH    3       0.0       0.0       0.0  106.1633
  SPH    4       0.0       0.0       0.0  150.0000
  RPP    5     -23.0      23.0     -23.0      23.0     -23.0      23.0
  END
  COR    5     +1
  BLK    5     +2     -1
  MAT    5     +3     -2
  LEK    5     +4     -3
  END
     1         1.0     2         1.0     3         1.0
     1   101   1             2   200   2             3   300   3
     4        -1
 30300 40300 60300 803002103012103022103032103042203012203032203042203 05      45
220306230301230302230303230304240300270300280301280302280304280305280306      45
280307280308290300340301340302350300380305380306380307540301540302570300      45
 30300 40300 60300 803002103012103022103032103042203012203032203042203 05      45
220306230301230302230303230304240300270300280301280302280304280305280306      45
280307280308290300340301340302350300380305380306380307540301540302570300      45
 30300 40300 60300 803002103012103022103032103042203012203032203042203 05      45
220306230301230302230303230304240300270300280301280302280304280305280306      45
280307280308290300340301340302350300380305380306380307540301540302570300      45
 6.67553E-03 7.52339E-03 6.50499E-05 3.11853E-05 7.83810E-05 1.51151E-03      46
 1.71374E-04 4.26630E-05 5.38643E-04 2.05926E-04 8.91559E-06 2.83248E-05      46
 7.17981E-06 4.44994E-04 7.03704E-03 1.68791E-04 2.14824E-05 2.06054E-02      46
 3.31766E-05 5.56017E-07 8.56834E-07 5.34078E-07 9.19189E-07 9.63069E-07      46
 5.51397E-07 1.39322E-06 9.45863E-05 4.83239E-06 2.15386E-06 6.42896E-06      46
 8.60231E-05 4.36785E-06 2.87926E-06 8.39971E-06 2.68609E-06 3.28265E-05      46
 8.08539E-05 3.98174E-02 1.00000E-20 1.00000E-20 4.85926E-05 9.37073E-04      46
 1.06244E-04 2.64491E-05 3.13182E-04 1.19731E-04 5.18376E-06 1.64687E-05      46
 4.17453E-06 2.65341E-04 4.19605E-03 1.00647E-04 1.28096E-05 6.85173E-04      46
 1.03291E-05 6.22044E-11 9.58580E-11 5.97499E-11 1.02834E-10 1.07744E-10      46
 6.16877E-11 1.55867E-10 4.46723E-05 1.13615E-09 5.06395E-10 2.79562E-06      46
 5.61820E-05 2.85265E-06 1.88045E-06 3.66383E-06 1.17164E-06 1.43186E-05      46
 1.00000E-20 1.00000E-20 1.00000E-20 1.00000E-20 4.82120E-05 9.29732E-04      46
 1.05411E-04 2.62419E-05 3.09642E-04 1.18378E-04 5.12516E-06 1.62826E-05      46
 4.12734E-06 2.62721E-04 4.15462E-03 9.96532E-05 1.26831E-05 1.00000E-20      46
 1.00000E-20 1.00000E-20 1.00000E-20 1.00000E-20 1.00000E-20 1.00000E-20      46
 1.00000E-20 1.00000E-20 4.34957E-05 1.00000E-20 1.00000E-20 1.00000E-20      46
 5.60482E-05 2.84586E-06 1.87597E-06 1.00000E-20 1.00000E-20 1.00000E-20      46
 1.00000e-05
```

APPENDIX B: Drawer Plate Loading Description for ZPR-3/11 Loading 10

Table B.1. Drawer Plate Loading Description for ZPR-3/6F Loading 5.[(a)]

Plate ID (dimension in inches)	Starting X Location	Starting Y Location	Starting Z Location	X #	Y #	Z #	Rotation
Identification Symbol 01, Drawer Master SP-1, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	3	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	3	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	3	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	3	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	3	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	3	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	3	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	3	1
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 02, Drawer Master SP-2, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.0000	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.1250	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.2500	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.5000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.6250	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.7500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.8750	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.1250	0.0000	6.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	2	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.3750	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	1.5000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.6250	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.8750	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x1/2)	0.0000	0.0000	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.0000	8.5000	1	1	1	2
Depleted Uranium (1/8x1/2x2)	0.0000	0.1250	8.0000	1	1	2	2
Al-63% (1/8x2x1/2)	0.0000	0.2500	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.2500	8.5000	1	1	1	2
U(93) (1/8x2x1/2)	0.0000	0.3750	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.3750	8.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	0.5000	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.5000	8.5000	1	1	1	2
Stainless Steel (1/8x1/2x2)	0.0000	0.6250	8.0000	1	1	1	2
Depleted Uranium (1/8x1/2x2)	0.0000	0.6250	8.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	0.7500	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.7500	8.5000	1	1	1	2
Depleted Uranium (1/8x1x2)	0.0000	0.8750	8.0000	1	9	1	2
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 03, Drawer Master SP-3, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.0000	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.1250	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.2500	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.5000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.6250	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.7500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.8750	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.1250	0.0000	6.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	2	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.3750	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	1.5000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.6250	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.8750	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x1/2)	0.0000	0.0000	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.0000	8.5000	1	1	1	2
U(93) (1/8x2x1/2)	0.0000	0.1250	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.1250	8.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	0.2500	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.2500	8.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	0.3750	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.3750	8.5000	1	1	1	2
Depleted Uranium (1/8x1/2x2)	0.0000	0.5000	8.0000	1	1	2	2
Al-63% (1/8x2x1/2)	0.0000	0.6250	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.6250	8.5000	1	1	1	2
U(93) (1/8x2x1/2)	0.0000	0.7500	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.7500	8.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	0.8750	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	0.8750	8.5000	1	1	1	2
Depleted Uranium (1/8x1x2)	0.0000	1.0000	8.0000	1	8	1	2
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 04, Drawer Master SP-4, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.0000	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.1250	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.2500	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.5000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.6250	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.7500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.8750	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.1250	0.0000	6.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	2	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.3750	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	1.5000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.6250	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.8750	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	8.0000	1	9	1	2
Al-63% (1/8x2x1/2)	0.0000	1.1250	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.1250	8.5000	1	1	1	2
Stainless Steel (1/8x1/2x2)	0.0000	1.2500	8.0000	1	1	1	2
Depleted Uranium (1/8x1/2x2)	0.0000	1.2500	8.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	1.3750	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.3750	8.5000	1	1	1	2
U(93) (1/8x2x1/2)	0.0000	1.5000	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.5000	8.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	1.6250	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.6250	8.5000	1	1	1	2
Depleted Uranium (1/8x1/2x2)	0.0000	1.7500	8.0000	1	1	2	2
Al-63% (1/8x2x1/2)	0.0000	1.8750	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.8750	8.5000	1	1	1	2
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 05, Drawer Master SP-5, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.0000	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.1250	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.2500	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.5000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.6250	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.7500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.8750	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.1250	0.0000	6.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	2	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.3750	0.0000	6.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	1.5000	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.6250	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	6.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.8750	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	8.0000	1	8	1	2
Al-63% (1/8x2x1/2)	0.0000	1.0000	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.0000	8.5000	1	1	1	2
U(93) (1/8x2x1/2)	0.0000	1.1250	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.1250	8.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	1.2500	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.2500	8.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	1.3750	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.3750	8.5000	1	1	1	2
Depleted Uranium (1/8x1/2x2)	0.0000	1.5000	8.0000	1	1	2	2
Al-63% (1/8x2x1/2)	0.0000	1.6250	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.6250	8.5000	1	1	1	2
U(93) (1/8x2x1/2)	0.0000	1.7500	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.7500	8.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	1.8750	8.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.8750	8.5000	1	1	1	2
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 06, Drawer Master SP-6, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.0000	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.0000	0.0000	5.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.1250	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.2500	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.5000	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.6250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	5.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.7500	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.8750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.1250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	5.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	3.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.3750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	5.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	1.5000	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.6250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.8750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	5.0000	1	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	8.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	13.0000	1	1	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 07, Drawer Master SP-7, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.0000	0.0000	3.0000	1	1	2	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.1250	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.2500	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.5000	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.6250	0.0000	3.0000	1	1	2	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.7500	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.8750	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.1250	0.0000	3.0000	1	1	2	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.3750	0.0000	3.0000	1	1	2	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	1.5000	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.6250	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.8750	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x1)	0.0000	0.0000	7.0000	1	1	1	5
Depleted Uranium (1/8x1x2)	0.0000	0.1250	7.0000	1	1	1	2
Al-63% (1/8x2x1)	0.0000	0.2500	7.0000	1	1	1	5
U(93) (1/8x2x1)	0.0000	0.3750	7.0000	1	1	1	5
Al-63% (1/8x2x1)	0.0000	0.5000	7.0000	1	1	1	5
Stainless Steel (1/8x1x2)	0.0000	0.6250	7.0000	1	1	1	2
Al-63% (1/8x2x1)	0.0000	0.7500	7.0000	1	1	1	5
Depleted Uranium (1/8x1x2)	0.0000	0.8750	7.0000	1	1	1	2
Al-63% (1/8x2x1)	0.0000	1.0000	7.0000	1	1	1	5
U(93) (1/8x2x1)	0.0000	1.1250	7.0000	1	1	1	5
Al-63% (1/8x2x1)	0.0000	1.2500	7.0000	1	1	1	5
Depleted Uranium (1/8x1x2)	0.0000	1.3750	7.0000	1	5	1	2
Depleted Uranium (2x2x5)	0.0000	0.0000	8.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	13.0000	1	1	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 08, Drawer Master SP-8, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.0000	0.0000	3.0000	1	1	2	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.1250	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.2500	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.5000	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.6250	0.0000	3.0000	1	1	2	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.7500	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.8750	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.1250	0.0000	3.0000	1	1	2	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.3750	0.0000	3.0000	1	1	2	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	1.5000	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.6250	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.8750	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	7.0000	1	6	1	2
Al-63% (1/8x2x1)	0.0000	0.7500	7.0000	1	1	1	5
Depleted Uranium (1/8x1x2)	0.0000	0.8750	7.0000	1	1	1	2
Al-63% (1/8x2x1)	0.0000	1.0000	7.0000	1	1	1	5
U(93) (1/8x2x1)	0.0000	1.1250	7.0000	1	1	1	5
Al-63% (1/8x2x1)	0.0000	1.2500	7.0000	1	1	1	5
Al-63% (1/8x2x1)	0.0000	1.3750	7.0000	1	1	1	5
Depleted Uranium (1/8x1x2)	0.0000	1.5000	7.0000	1	1	1	2
Al-63% (1/8x2x1)	0.0000	1.6250	7.0000	1	1	1	5
U(93) (1/8x2x1)	0.0000	1.7500	7.0000	1	1	1	5
Al-63% (1/8x2x1)	0.0000	1.8750	7.0000	1	1	1	5
Depleted Uranium (2x2x5)	0.0000	0.0000	8.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	13.0000	1	1	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 10, Drawer Master SP-10, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.0000	0.0000	3.0000	1	1	2	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.1250	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.2500	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.5000	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	7.0000	5	1	1	4
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.6250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	5.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.7500	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.8750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.1250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	5.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	3.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.3750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	5.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	1.5000	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.6250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.8750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	5.0000	1	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	8.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	13.0000	1	1	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 11, Drawer Master SP-11, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.0000	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.0000	0.0000	5.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.1250	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.2500	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.5000	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.6250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	5.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.7500	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.8750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	5.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.1250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	5.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.3750	0.0000	3.0000	1	1	2	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	1.5000	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.6250	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	3.0000	1	1	2	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.8750	0.0000	3.0000	1	1	2	1
Depleted Uranium (1/8x1x2)	1.2500	0.0000	7.0000	6	1	1	4
Depleted Uranium (2x2x5)	0.0000	0.0000	8.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	13.0000	1	1	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 13, Drawer Master SP-13, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	2	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	6.0000	1	8	1	2
Al-63% (1/8x2x1/2)	0.0000	1.0000	6.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.0000	6.5000	1	1	1	2
U(93) (1/8x2x1/2)	0.0000	1.1250	6.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.1250	6.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	1.2500	6.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.2500	6.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	1.3750	6.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.3750	6.5000	1	1	1	2
Depleted Uranium (1/8x1/2x2)	0.0000	1.5000	6.0000	1	1	2	2
Al-63% (1/8x2x1/2)	0.0000	1.6250	6.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.6250	6.5000	1	1	1	2
U(93) (1/8x2x1/2)	0.0000	1.7500	6.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.7500	6.5000	1	1	1	2
Al-63% (1/8x2x1/2)	0.0000	1.8750	6.0000	1	1	1	5
Depleted Uranium (1/8x1/2x2)	0.0000	1.8750	6.5000	1	1	1	2
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 14, Drawer Master SP-14, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	2	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (2x2x5)	0.0000	0.0000	6.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	11.0000	1	1	2	1
Identification Symbol 15, Drawer Master SP-15, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x2)	0.0000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.2500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.6250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.1250	0.0000	0.0000	1	1	2	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.3750	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	1.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.6250	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.8750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.0000	0.0000	4.0000	1	1	1	5
U(93) (1/8x2x2)	0.0000	0.1250	4.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.2500	4.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.3750	4.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.5000	4.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.6250	4.0000	1	1	1	5
U(93) (1/8x2x2)	0.0000	0.7500	4.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.8750	4.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.0000	4.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.1250	4.0000	1	1	1	5
Stainless Steel (1/8x2x2)	0.0000	1.2500	4.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.3750	4.0000	1	5	1	5
Depleted Uranium (2x2x5)	0.0000	0.0000	6.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	11.0000	1	1	2	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 16, Drawer Master SP-16, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x2)	0.0000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.2500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.6250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.1250	0.0000	0.0000	1	1	2	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.3750	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	1.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.6250	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	4.0000	1	5	1	5
Al-63% (1/8x2x2)	0.0000	0.6250	4.0000	1	1	1	5
U(93) (1/8x2x2)	0.0000	0.7500	4.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.8750	4.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.0000	4.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.1250	4.0000	1	1	1	5
Stainless Steel (1/8x2x2)	0.0000	1.2500	4.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.3750	4.0000	1	1	1	5
U(93) (1/8x2x2)	0.0000	1.5000	4.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.6250	4.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.7500	4.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.8750	4.0000	1	1	1	5
Depleted Uranium (2x2x5)	0.0000	0.0000	6.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	11.0000	1	1	2	1
Identification Symbol 17, Drawer Master SP-17, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x2)	0.0000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.2500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.5000	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	4.0000	5	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	2	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (2x2x5)	0.0000	0.0000	6.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	11.0000	1	1	2	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 18, Drawer Master SP-18, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	2	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.3750	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	1.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.6250	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.2500	0.0000	4.0000	6	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	6.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	11.0000	1	1	2	1
Identification Symbol 19, Drawer Master SP-19, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.0000	0.0000	3.0000	1	1	1	5
U(93) (1/8x2x2)	0.0000	0.1250	3.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.2500	3.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.3750	3.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.5000	3.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.6250	3.0000	1	1	1	5
U(93) (1/8x2x2)	0.0000	0.7500	3.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.8750	3.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.0000	3.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.1250	3.0000	1	1	1	5
Stainless Steel (1/8x2x2)	0.0000	1.2500	3.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.3750	3.0000	1	5	1	5
Depleted Uranium (2x2x5)	0.0000	0.0000	5.0000	1	1	2	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 20, Drawer Master SP-20, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	3.0000	1	6	1	5
Al-63% (1/8x2x2)	0.0000	0.7500	3.0000	1	1	1	5
U(93) (1/8x2x2)	0.0000	0.8750	3.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.0000	3.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.1250	3.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.2500	3.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.3750	3.0000	1	1	1	5
U(93) (1/8x2x2)	0.0000	1.5000	3.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.6250	3.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.7500	3.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.8750	3.0000	1	1	1	5
Depleted Uranium (2x2x5)	0.0000	0.0000	5.0000	1	1	2	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 21, Drawer Master SP-21, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	3.0000	6	1	1	1
Al-63% (1/8x2x2)	0.7500	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x2)	0.8750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	1.0000	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.1250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	1.2500	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	1.3750	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x2)	1.5000	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	1.6250	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	1.8750	0.0000	3.0000	1	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	5.0000	1	1	2	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 22, Drawer Master SP-22, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.0000	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.1250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.2500	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.5000	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.6250	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.7500	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.8750	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.1250	0.0000	3.0000	1	1	1	1
Stainless Steel (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.3750	0.0000	3.0000	5	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	5.0000	1	1	2	1
Identification Symbol 23, Drawer Master SP-23, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x2)	0.0000	0.0000	0.0000	1	1	2	5
Depleted Uranium (1/8x2x2)	0.0000	0.1250	0.0000	1	1	2	5
Al-63% (1/8x2x2)	0.0000	0.2500	0.0000	1	1	2	5
U(93) (1/8x2x2)	0.0000	0.3750	0.0000	1	1	2	5
Al-63% (1/8x2x2)	0.0000	0.5000	0.0000	1	1	2	5
Stainless Steel (1/8x2x2)	0.0000	0.6250	0.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.7500	0.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.8750	0.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.0000	0.0000	1	1	1	5
U(93) (1/8x2x2)	0.0000	1.1250	0.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.2500	0.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.3750	0.0000	1	5	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.6250	2.0000	1	5	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.2500	2.0000	1	6	1	5
Depleted Uranium (2x2x5)	0.0000	0.0000	4.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 24, Drawer Master SP-24, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x2x2)	0.0000	0.0000	0.0000	1	5	1	5
Stainless Steel (1/8x2x2)	0.0000	0.6250	0.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.7500	0.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.8750	0.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.0000	0.0000	1	1	1	5
U(93) (1/8x2x2)	0.0000	1.1250	0.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	1.2500	0.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.0000	2.0000	1	5	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.6250	2.0000	1	6	1	5
Al-63% (1/8x2x2)	0.0000	1.3750	0.0000	1	1	2	5
Depleted Uranium (1/8x2x2)	0.0000	1.5000	0.0000	1	1	2	5
Al-63% (1/8x2x2)	0.0000	1.6250	0.0000	1	1	2	5
U(93) (1/8x2x2)	0.0000	1.7500	0.0000	1	1	2	5
Al-63% (1/8x2x2)	0.0000	1.8750	0.0000	1	1	2	5
Depleted Uranium (2x2x5)	0.0000	0.0000	4.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1
Identification Symbol 25, Drawer Master SP-25, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x2x2)	0.0000	0.0000	0.0000	5	1	1	1
Al-63% (1/8x2x2)	0.6250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.2500	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	1.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.5000	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.7500	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x2)	1.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	2.0000	6	1	1	1
Depleted Uranium (1/8x2x2)	0.7500	0.0000	2.0000	5	1	1	1
Al-63% (1/8x2x2)	1.3750	0.0000	2.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.5000	0.0000	2.0000	1	1	1	1
Al-63% (1/8x2x2)	1.6250	0.0000	2.0000	1	1	1	1
U(93) (1/8x2x2)	1.7500	0.0000	2.0000	1	1	1	1
Al-63% (1/8x2x2)	1.8750	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	4.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 26, Drawer Master SP-26, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x2)	0.0000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.2500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.5000	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x2)	0.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.7500	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x2)	0.8750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	1.2500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.3750	0.0000	0.0000	5	1	1	1
Al-63% (1/8x2x2)	0.0000	0.0000	2.0000	1	1	1	1
U(93) (1/8x2x2)	0.1250	0.0000	2.0000	1	1	1	1
Al-63% (1/8x2x2)	0.2500	0.0000	2.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	2.0000	1	1	1	1
Al-63% (1/8x2x2)	0.5000	0.0000	2.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.6250	0.0000	2.0000	5	1	1	1
Depleted Uranium (1/8x2x2)	1.2500	0.0000	2.0000	6	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	4.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1
Identification Symbol 27, Drawer Master SP-27, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x2)	0.0000	0.0000	0.0000	1	1	2	5
Depleted Uranium (1/8x2x2)	0.0000	0.1250	0.0000	1	1	2	5
Al-63% (1/8x2x2)	0.0000	0.2500	0.0000	1	1	2	5
U(93) (1/8x2x2)	0.0000	0.3750	0.0000	1	1	2	5
Al-63% (1/8x2x2)	0.0000	0.5000	0.0000	1	1	2	5
Stainless Steel (1/8x2x2)	0.0000	0.6250	0.0000	1	1	1	5
Al-63% (1/8x2x2)	0.0000	0.7500	0.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.8750	0.0000	1	9	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.6250	2.0000	1	5	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.2500	2.0000	1	6	1	5
Depleted Uranium (2x2x5)	0.0000	0.0000	4.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1
Identification Symbol 28, Drawer Master SP-28, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x2x2)	0.0000	0.0000	0.0000	1	5	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.6250	0.0000	1	5	1	5
Al-63% (1/8x2x2)	0.0000	1.2500	0.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.0000	2.0000	1	5	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.6250	2.0000	1	6	1	5
Al-63% (1/8x2x2)	0.0000	1.3750	0.0000	1	1	2	5
Depleted Uranium (1/8x2x2)	0.0000	1.5000	0.0000	1	1	2	5
Al-63% (1/8x2x2)	0.0000	1.6250	0.0000	1	1	2	5
U(93) (1/8x2x2)	0.0000	1.7500	0.0000	1	1	2	5
Al-63% (1/8x2x2)	0.0000	1.8750	0.0000	1	1	2	5
Depleted Uranium (2x2x5)	0.0000	0.0000	4.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 29, Drawer Master SP-29, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x2x2)	0.0000	0.0000	0.0000	9	1	1	1
Al-63% (1/8x2x2)	1.1250	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	2.0000	5	1	1	1
Depleted Uranium (1/8x2x2)	0.6250	0.0000	2.0000	5	1	1	1
Stainless Steel (1/8x2x2)	1.2500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.3750	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	1.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.6250	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	1.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	1.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (2x2x5)	0.0000	0.0000	4.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	3	1
Identification Symbol 30, Drawer Master SP-30, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x2)	0.0000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x2)	0.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.2500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x2)	0.6250	0.0000	0.0000	1	1	1	1
Stainless Steel (1/8x2x2)	0.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	0.0000	8	1	1	1
Depleted Uranium (1/8x2x2)	0.6250	0.0000	2.0000	5	1	1	1
Depleted Uranium (1/8x2x2)	1.2500	0.0000	2.0000	6	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	4.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	9.0000	1	1	1	1
Identification Symbol 31, Drawer Master SP-31, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x1)	0.0000	0.0000	0.0000	1	1	1	2
U(93) (1/8x2x1)	0.0000	0.1250	0.0000	1	1	1	2
Al-63% (1/8x2x1)	0.0000	0.2500	0.0000	1	1	1	2
Depleted Uranium (1/8x1x2)	0.0000	0.3750	0.0000	1	1	1	5
Al-63% (1/8x2x1)	0.0000	0.5000	0.0000	1	1	1	2
Depleted Uranium (1/8x1x2)	1.0000	0.0000	0.0000	1	5	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.6250	0.0000	1	5	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.2500	0.0000	1	6	1	5
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1
Identification Symbol 32, Drawer Master SP-32, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x1x2)	0.0000	0.0000	0.0000	1	6	1	5
Al-63% (1/8x2x1)	1.0000	0.0000	0.0000	1	1	1	2
U(93) (1/8x2x1)	1.0000	0.1250	0.0000	1	1	1	2
Al-63% (1/8x2x1)	1.0000	0.2500	0.0000	1	1	1	2
Depleted Uranium (1/8x1x2)	1.0000	0.3750	0.0000	1	1	1	5
Al-63% (1/8x2x1)	1.0000	0.5000	0.0000	1	1	1	2
Stainless Steel (1/8x1x2)	1.0000	0.6250	0.0000	1	1	1	5
Depleted Uranium (1/8x2x2)	0.0000	0.7500	0.0000	1	5	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.3750	0.0000	1	5	1	5
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 33, Drawer Master SP-33, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x2x2)	0.0000	0.0000	0.0000	8	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	0.0000	3	1	1	1
Al-63% (1/8x2x1)	1.3750	0.0000	0.0000	1	1	1	4
U(93) (1/8x2x1)	1.5000	0.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	1.6250	0.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	1.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	1.8750	0.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	1.3750	1.0000	0.0000	5	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1
Identification Symbol 34, Drawer Master SP-34, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x2x2)	0.0000	0.0000	0.0000	8	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	0.0000	2	1	1	1
Depleted Uranium (1/8x1x2)	1.2500	0.0000	0.0000	6	1	1	1
Stainless Steel (1/8x1x2)	1.2500	1.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	1.3750	1.0000	0.0000	1	1	1	4
U(93) (1/8x2x1)	1.5000	1.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	1.6250	1.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	1.7500	1.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	1.8750	1.0000	0.0000	1	1	1	4
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1
Identification Symbol 35, Drawer Master SP-35, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x2x2)	0.0000	0.0000	0.0000	1	8	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.0000	0.0000	1	3	1	5
Depleted Uranium (1/8x1x2)	0.0000	1.3750	0.0000	1	5	1	5
Al-63% (1/8x2x1)	1.0000	1.3750	0.0000	1	1	1	2
U(93) (1/8x2x1)	1.0000	1.5000	0.0000	1	1	1	2
Al-63% (1/8x2x1)	1.0000	1.6250	0.0000	1	1	1	2
Depleted Uranium (1/8x1x2)	1.0000	1.7500	0.0000	1	1	1	5
Al-63% (1/8x2x1)	1.0000	1.8750	0.0000	1	1	1	2
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1
Identification Symbol 36, Drawer Master SP-36, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x2x2)	0.0000	0.0000	0.0000	1	8	1	5
Depleted Uranium (1/8x2x2)	0.0000	1.0000	0.0000	1	2	1	5
Stainless Steel (1/8x1x2)	0.0000	1.2500	0.0000	1	1	1	5
Al-63% (1/8x2x1)	0.0000	1.3750	0.0000	1	1	1	2
U(93) (1/8x2x1)	0.0000	1.5000	0.0000	1	1	1	2
Al-63% (1/8x2x1)	0.0000	1.6250	0.0000	1	1	1	2
Depleted Uranium (1/8x1x2)	0.0000	1.7500	0.0000	1	1	1	5
Al-63% (1/8x2x1)	0.0000	1.8750	0.0000	1	1	1	2
Depleted Uranium (1/8x1x2)	1.0000	1.2500	0.0000	1	6	1	5
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 37, Drawer Master SP-37, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x1x2)	0.0000	0.0000	0.0000	5	1	1	1
Al-63% (1/8x2x1)	0.0000	1.0000	0.0000	1	1	1	4
U(93) (1/8x2x1)	0.1250	1.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	0.2500	1.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	0.3750	1.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	0.5000	1.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x2x2)	0.6250	0.0000	0.0000	3	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	0.0000	8	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1
Identification Symbol 38, Drawer Master SP-38, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x1)	0.0000	0.0000	0.0000	1	1	1	4
U(93) (1/8x2x1)	0.1250	0.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	0.2500	0.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	0.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	0.5000	0.0000	0.0000	1	1	1	4
Stainless Steel (1/8x1x2)	0.6250	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x1x2)	0.0000	1.0000	0.0000	6	1	1	1
Depleted Uranium (1/8x2x2)	0.7500	0.0000	0.0000	2	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	0.0000	8	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1
Identification Symbol 39, Drawer Master SP-39, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x1)	0.0000	0.0000	0.0000	1	1	1	4
U(93) (1/8x2x1)	0.1250	0.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	0.2500	0.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	0.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	0.5000	0.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	0.6250	0.0000	0.0000	1	1	1	4
U(93) (1/8x2x1)	0.7500	0.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	0.8750	0.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	0.0000	1.0000	0.0000	8	1	1	1
Depleted Uranium (1x1x2)	1.0000	0.0000	0.0000	1	2	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1
Identification Symbol 40, Drawer Master SP-40, Transform Starting X Location for Movable Half							
Depleted Uranium (1x1x2)	0.0000	0.0000	0.0000	1	2	1	1
Depleted Uranium (1/8x1x2)	1.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	1.1250	0.0000	0.0000	1	1	1	4
Stainless Steel (1/8x1x2)	1.2500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	1.3750	0.0000	0.0000	1	1	1	4
U(93) (1/8x2x1)	1.5000	0.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	1.6250	0.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	1.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	1.8750	0.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	1.0000	1.0000	0.0000	8	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 41, Drawer Master SP-41, Transform Starting X Location for Movable Half							
Depleted Uranium (1x1x2)	0.0000	0.0000	0.0000	1	2	1	1
Depleted Uranium (1/8x1x2)	1.0000	0.0000	0.0000	8	1	1	1
Depleted Uranium (1/8x1x2)	1.0000	1.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	1.1250	1.0000	0.0000	1	1	1	4
Stainless Steel (1/8x1x2)	1.2500	1.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	1.3750	1.0000	0.0000	1	1	1	4
U(93) (1/8x2x1)	1.5000	1.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	1.6250	1.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	1.7500	1.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	1.8750	1.0000	0.0000	1	1	1	4
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1
Identification Symbol 42, Drawer Master SP-42, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x1x2)	0.0000	0.0000	0.0000	8	1	1	1
Al-63% (1/8x2x1)	0.0000	1.0000	0.0000	1	1	1	4
U(93) (1/8x2x1)	0.1250	1.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	0.2500	1.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x1x2)	0.3750	1.0000	0.0000	1	1	1	1
Al-63% (1/8x2x1)	0.5000	1.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	0.6250	1.0000	0.0000	1	1	1	4
U(93) (1/8x2x1)	0.7500	1.0000	0.0000	1	1	1	4
Al-63% (1/8x2x1)	0.8750	1.0000	0.0000	1	1	1	4
Depleted Uranium (1/8x2x2)	1.0000	0.0000	0.0000	8	1	1	1
Depleted Uranium (2x2x5)	0.0000	0.0000	2.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	7.0000	1	1	4	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 71, Drawer Master SP-C1, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	3	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	3	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	3	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	3	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.2500	0.0000	0.0000	1	1	3	1
U(93) (1/8x2x3)	1.3750	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.5000	0.0000	0.0000	1	1	3	1
Depleted Uranium (1/8x2x3)	1.6250	0.0000	0.0000	1	1	3	1
Al-63% (1/8x2x3)	1.7500	0.0000	0.0000	1	1	3	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	9.0000	8	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	9.0000	7	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	12.0000	8	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	12.0000	7	1	1	1
DP Retainer Spring (1.75x2x1/16)	0.0000	0.0000	15.0000	1	1	1	1
DP Retainer Spring (1.75x2x1/16)	0.0000	0.0000	15.0625	1	1	1	1
DP Drawer Divider Plate (1.75x2x1/16)	0.0000	0.0000	15.1250	1	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	15.1875	8	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	15.1875	7	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	18.1875	8	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	18.1875	7	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	20.1875	8	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	20.1875	7	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	23.1875	8	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	23.1875	7	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	25.1875	8	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	25.1875	7	1	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 72, Drawer Master SP-C2, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.2500	0.0000	0.0000	1	1	2	1
U(93) (1/8x2x3)	1.3750	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.5000	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.6250	0.0000	0.0000	1	1	2	1
Al-63% (1/8x2x3)	1.7500	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	6.0000	9	1	1	4
Al-63% (1/8x2x1/2)	1.1250	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x1/2x2)	1.1250	0.0000	6.5000	1	1	1	4
Stainless Steel (1/8x1/2x2)	1.2500	0.0000	6.0000	1	1	1	4
Depleted Uranium (1/8x1/2x2)	1.2500	0.0000	6.5000	1	1	1	4
Al-63% (1/8x2x1/2)	1.3750	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x1/2x2)	1.3750	0.0000	6.5000	1	1	1	4
Al-63% (1/8x2x1/2)	1.5000	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x1/2x2)	1.5000	0.0000	6.5000	1	1	1	4
Depleted Uranium (1/8x1/2x2)	1.6250	0.0000	6.0000	1	1	2	4
Al-63% (1/8x2x1/2)	1.7500	0.0000	6.0000	1	1	1	1
Depleted Uranium (1/8x1/2x2)	1.7500	0.0000	6.5000	1	1	1	4
Depleted Uranium (1/8x2x3)	0.0000	0.0000	7.0000	8	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	7.0000	7	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	10.0000	8	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	10.0000	7	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	13.0000	8	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	13.0000	7	1	1	1
DP Retainer Spring (1.75x2x1/16)	0.0000	0.0000	15.0000	1	1	1	1
DP Retainer Spring (1.75x2x1/16)	0.0000	0.0000	15.0625	1	1	1	1
DP Drawer Divider Plate (1.75x2x1/16)	0.0000	0.0000	15.1250	1	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	15.1875	8	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	15.1875	7	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	18.1875	8	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	18.1875	7	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	21.1875	8	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	21.1875	7	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	23.1875	8	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	23.1875	7	1	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 73, Drawer Master SP-C3, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	3.0000	5	1	1	1
Al-63% (1/8x2x2)	0.6250	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x2)	0.7500	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	0.8750	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	1.1250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	1.2500	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x2)	1.3750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	1.5000	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.6250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	1.7500	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	5.0000	4	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	8.0000	4	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	11.0000	4	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	13.0000	4	1	1	1
Depleted Uranium (1x1x5)	0.5000	0.0000	5.0000	1	1	2	1
Depleted Uranium (1x1x5)	0.5000	1.0000	5.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	5.0000	3	1	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	8.0000	3	1	1	1
Depleted Uranium (1/8x2x2)	1.5000	0.0000	11.0000	3	1	1	1
Depleted Uranium (1/8x2x2)	1.5000	0.0000	13.0000	3	1	1	1
DP Retainer Spring (1.75x2x1/16)	0.0000	0.0000	15.0000	1	1	1	1
DP Retainer Spring (1.75x2x1/16)	0.0000	0.0000	15.0625	1	1	1	1
DP Drawer Divider Plate (1.75x2x1/16)	0.0000	0.0000	15.1250	1	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	15.1875	4	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	18.1875	4	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	21.1875	4	1	1	1
Depleted Uranium (1x1x5)	0.5000	0.0000	15.1875	1	2	1	1
Depleted Uranium (1x1x2)	0.5000	0.0000	20.1875	1	2	1	1
Depleted Uranium (1x1x2)	0.5000	0.0000	22.1875	1	2	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	15.1875	3	1	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	18.1875	3	1	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	21.1875	3	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	24.1875	8	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	24.1875	7	1	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 74, Drawer Master SP-C4, Transform Starting X Location for Movable Half							
Al-63% (1/8x2x3)	0.0000	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	0.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.2500	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	0.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.5000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.6250	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	0.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	0.8750	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.0000	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.1250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.2500	0.0000	0.0000	1	1	1	1
U(93) (1/8x2x3)	1.3750	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.5000	0.0000	0.0000	1	1	1	1
Depleted Uranium (1/8x2x3)	1.6250	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x3)	1.7500	0.0000	0.0000	1	1	1	1
Al-63% (1/8x2x2)	0.0000	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x2)	0.1250	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	0.2500	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.3750	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	0.5000	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	0.6250	0.0000	3.0000	1	1	1	1
U(93) (1/8x2x2)	0.7500	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	0.8750	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	3.0000	1	1	1	1
Al-63% (1/8x2x2)	1.1250	0.0000	3.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	1.2500	0.0000	3.0000	5	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	5.0000	4	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	8.0000	4	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	11.0000	4	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	13.0000	4	1	1	1
Depleted Uranium (1x1x5)	0.5000	0.0000	5.0000	1	1	2	1
Depleted Uranium (1x1x5)	0.5000	1.0000	5.0000	1	1	2	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	5.0000	3	1	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	8.0000	3	1	1	1
Depleted Uranium (1/8x2x2)	1.5000	0.0000	11.0000	3	1	1	1
Depleted Uranium (1/8x2x2)	1.5000	0.0000	13.0000	3	1	1	1
DP Retainer Spring (1.75x2x1/16)	0.0000	0.0000	15.0000	1	1	1	1
DP Retainer Spring (1.75x2x1/16)	0.0000	0.0000	15.0625	1	1	1	1
DP Drawer Divider Plate (1.75x2x1/16)	0.0000	0.0000	15.1250	1	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	15.1875	4	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	18.1875	4	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	21.1875	4	1	1	1
Depleted Uranium (1x1x5)	0.5000	0.0000	15.1875	1	2	1	1
Depleted Uranium (1x1x2)	0.5000	0.0000	20.1875	1	2	1	1
Depleted Uranium (1x1x2)	0.5000	0.0000	22.1875	1	2	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	15.1875	3	1	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	18.1875	3	1	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	21.1875	3	1	1	1
Depleted Uranium (1/8x2x1)	0.0000	0.0000	24.1875	8	1	1	1
Depleted Uranium (1/8x2x1)	1.0000	0.0000	24.1875	7	1	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol 76, Drawer Master SP-C6, Transform Starting X Location for Movable Half							
Depleted Uranium (1/8x1x2)	0.0000	0.0000	0.0000	3	1	1	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	2.0000	3	1	1	1
Depleted Uranium (1x1x2)	0.3750	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x1x2)	1.3750	0.0000	0.0000	4	1	1	1
Depleted Uranium (1/8x1x2)	1.3750	0.0000	2.0000	4	1	1	1
Al-63% (1/8x2x1)	0.0000	1.0000	0.0000	1	1	2	4
U(93) (1/8x2x1)	0.1250	1.0000	0.0000	1	1	2	4
Al-63% (1/8x2x1)	0.2500	1.0000	0.0000	1	1	2	4
Depleted Uranium (1/8x1x2)	0.3750	1.0000	0.0000	1	1	2	1
Al-63% (1/8x2x1)	0.5000	1.0000	0.0000	1	1	2	4
Al-63% (1/8x2x1)	0.6250	1.0000	0.0000	1	1	2	4
U(93) (1/8x2x1)	0.7500	1.0000	0.0000	1	1	2	4
Al-63% (1/8x2x1)	0.8750	1.0000	0.0000	1	1	2	4
Depleted Uranium (1/8x1x2)	1.0000	1.0000	0.0000	1	1	2	1
Al-63% (1/8x2x1)	1.1250	1.0000	0.0000	1	1	2	4
Al-63% (1/8x2x1)	1.2500	1.0000	0.0000	1	1	2	4
U(93) (1/8x2x1)	1.3750	1.0000	0.0000	1	1	2	4
Al-63% (1/8x2x1)	1.5000	1.0000	0.0000	1	1	2	4
Depleted Uranium (1/8x1x2)	1.6250	1.0000	0.0000	1	1	2	1
Al-63% (1/8x2x1)	1.7500	1.0000	0.0000	1	1	2	4
Depleted Uranium (1/8x2x3)	0.0000	0.0000	4.0000	4	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	7.0000	4	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	10.0000	4	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	13.0000	4	1	1	1
Depleted Uranium (1x1x5)	0.5000	0.0000	4.0000	1	2	1	1
Depleted Uranium (1x1x3)	0.5000	0.0000	9.0000	1	2	1	1
Depleted Uranium (1x1x3)	0.5000	0.0000	12.0000	1	2	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	4.0000	3	1	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	7.0000	3	1	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	10.0000	3	1	1	1
Depleted Uranium (1/8x2x2)	1.5000	0.0000	13.0000	3	1	1	1
DP Retainer Spring (1.75x2x1/16)	0.0000	0.0000	15.0000	1	1	1	1
DP Retainer Spring (1.75x2x1/16)	0.0000	0.0000	15.0625	1	1	1	1
DP Drawer Divider Plate (1.75x2x1/16)	0.0000	0.0000	15.1250	1	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	15.1875	4	1	1	1
Depleted Uranium (1/8x2x3)	0.0000	0.0000	18.1875	4	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	21.1875	4	1	1	1
Depleted Uranium (1x1x5)	0.5000	0.0000	15.1875	1	2	1	1
Depleted Uranium (1x1x3)	0.5000	0.0000	20.1875	1	2	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	15.1875	3	1	1	1
Depleted Uranium (1/8x2x3)	1.5000	0.0000	18.1875	3	1	1	1
Depleted Uranium (1/8x2x2)	1.5000	0.0000	21.1875	3	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	23.1875	8	1	1	1
Depleted Uranium (1/8x2x2)	1.0000	0.0000	23.1875	7	1	1	1
Identification Symbol x, Drawer Master CR shaft							
Stainless Steel (1/4x2x1)	0.9225	0.0000	0.0000	1	1	7	1
Identification Symbol A, Drawer Master RR-7							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol B, Drawer Master RR-10							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	2	1
Identification Symbol C, Drawer Master RR-15							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	3	1
Identification Symbol D, Drawer Master RR-17							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	3	1
Depleted Uranium (2x2x2)	0.0000	0.0000	15.0000	1	1	1	1
Identification Symbol E, Drawer Master RR-20							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	4	1
Identification Symbol F, Drawer Master RR-22							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	4	1
Depleted Uranium (2x2x2)	0.0000	0.0000	20.0000	1	1	1	1
Identification Symbol G, Drawer Master RR-24							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	4	1
Depleted Uranium (2x2x2)	0.0000	0.0000	20.0000	1	1	2	1
Identification Symbol a, Drawer Master SB-1, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	2	1
Identification Symbol b, Drawer Master SB-2, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1x1x2)	0.0000	0.0000	7.0000	1	1	3	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.0000	1	1	3	1
Depleted Uranium (1x1x2)	0.0000	1.0000	7.0000	2	1	1	1
Depleted Uranium (1/8x1x2)	0.0000	1.0000	9.0000	1	1	7	6
Depleted Uranium (1x1x2)	0.0000	1.0000	9.8750	2	1	1	1
Identification Symbol c, Drawer Master SB-3, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1x1x2)	0.0000	1.0000	7.0000	1	1	3	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.0000	1	1	3	1
Depleted Uranium (1x1x2)	0.0000	0.0000	7.0000	2	1	1	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	9.0000	1	1	7	6
Depleted Uranium (1x1x2)	0.0000	0.0000	9.8750	2	1	1	1
Identification Symbol d, Drawer Master SB-4, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1x1x2)	0.0000	0.0000	7.0000	1	2	1	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	9.0000	1	1	7	3
Depleted Uranium (1x1x2)	0.0000	0.0000	9.8750	1	2	1	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.0000	1	1	3	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.0000	1	1	3	1
Identification Symbol e, Drawer Master SB-5, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1x1x2)	0.0000	0.0000	7.0000	1	1	3	1
Depleted Uranium (1x1x2)	0.0000	1.0000	7.0000	1	1	3	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.0000	1	2	1	1
Depleted Uranium (1/8x1x2)	1.0000	0.0000	9.0000	1	1	7	3
Depleted Uranium (1x1x2)	1.0000	0.0000	9.8750	1	2	1	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol f, Drawer Master SB-6, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1x1x2)	0.0000	0.0000	7.0000	1	2	1	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.0000	1	2	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	9.0000	1	1	7	6
Depleted Uranium (1x1x2)	0.0000	0.0000	9.8750	1	2	1	1
Depleted Uranium (1x1x2)	1.0000	0.0000	9.8750	1	2	1	1
Identification Symbol g, Drawer Master SB-7, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	7.0000	1	1	4	6
Depleted Uranium (1x1x2)	0.0000	0.0000	7.5000	1	1	2	1
Depleted Uranium (1x1x2)	0.0000	1.0000	7.5000	1	1	2	1
Depleted Uranium (1/8x1x2)	1.0000	0.0000	7.5000	1	1	2	3
Depleted Uranium (1x1x2)	1.0000	0.0000	7.7500	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.7500	1	1	2	1
Identification Symbol h, Drawer Master SB-8, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	7.0000	1	1	4	6
Depleted Uranium (1/8x1x2)	0.0000	0.0000	7.5000	1	1	2	3
Depleted Uranium (1x1x2)	0.0000	0.0000	7.7500	1	1	2	1
Depleted Uranium (1x1x2)	0.0000	1.0000	7.7500	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.5000	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.5000	1	1	2	1
Identification Symbol I, Drawer Master SB-9, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	7.0000	1	1	4	6
Depleted Uranium (1x1x2)	0.0000	1.0000	7.5000	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.5000	1	1	2	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	7.5000	1	1	2	6
Depleted Uranium (1x1x2)	0.0000	0.0000	7.7500	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.7500	1	1	2	1
Identification Symbol j, Drawer Master SB-10, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	7.0000	1	1	4	6
Depleted Uranium (1x1x2)	0.0000	0.0000	7.5000	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.5000	1	1	2	1
Depleted Uranium (1/8x1x2)	0.0000	1.0000	7.5000	1	1	2	6
Depleted Uranium (1x1x2)	0.0000	1.0000	7.7500	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.7500	1	1	2	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol k, Drawer Master SB-11, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	7.0000	1	1	3	6
Depleted Uranium (1x1x2)	0.0000	0.0000	7.3750	1	1	2	1
Depleted Uranium (1x1x2)	0.0000	1.0000	7.3750	1	1	2	1
Depleted Uranium (1/8x1x2)	1.0000	0.0000	7.3750	1	1	2	3
Depleted Uranium (1x1x2)	1.0000	0.0000	7.6250	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.6250	1	1	2	1
Identification Symbol l, Drawer Master SB-12, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	7.0000	1	1	3	6
Depleted Uranium (1/8x1x2)	0.0000	0.0000	7.3750	1	1	2	3
Depleted Uranium (1x1x2)	0.0000	0.0000	7.6250	1	1	2	1
Depleted Uranium (1x1x2)	0.0000	1.0000	7.6250	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.3750	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.3750	1	1	2	1
Identification Symbol m, Drawer Master SB-13, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	7.0000	1	1	3	6
Depleted Uranium (1x1x2)	0.0000	1.0000	7.3750	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.3750	1	1	2	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	7.3750	1	1	2	6
Depleted Uranium (1x1x2)	0.0000	0.0000	7.6250	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.6250	1	1	2	1
Identification Symbol n, Drawer Master SB-14, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	7.0000	1	1	3	6
Depleted Uranium (1x1x2)	0.0000	0.0000	7.3750	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.3750	1	1	2	1
Depleted Uranium (1/8x1x2)	0.0000	1.0000	7.3750	1	1	2	6
Depleted Uranium (1x1x2)	0.0000	1.0000	7.6250	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.6250	1	1	2	1
Identification Symbol o, Drawer Master SB-15, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	7.0000	1	1	2	6
Depleted Uranium (2x2x2)	0.0000	0.0000	7.2500	1	1	2	1
Identification Symbol p, Drawer Master SB-16, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1x1x2)	0.0000	0.0000	7.0000	1	1	2	1
Depleted Uranium (1x1x2)	0.0000	1.0000	7.0000	1	1	2	1
Depleted Uranium (1/8x1x2)	1.0000	0.0000	7.0000	1	1	2	3
Depleted Uranium (1x1x2)	1.0000	0.0000	7.2500	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.2500	1	1	2	1

Table B.1 (cont'd). Drawer Plate Loading Description for ZPR-3/6F Loading 5.

Identification Symbol q, Drawer Master SB-17, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	7.0000	1	1	2	3
Depleted Uranium (1x1x2)	0.0000	0.0000	7.2500	1	1	2	1
Depleted Uranium (1x1x2)	0.0000	1.0000	7.2500	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.0000	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.0000	1	1	2	1
Identification Symbol r, Drawer Master SB-18, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1x1x2)	0.0000	0.0000	7.0000	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.0000	1	1	2	1
Depleted Uranium (1/8x1x2)	0.0000	1.0000	7.0000	1	1	2	6
Depleted Uranium (1x1x2)	0.0000	1.0000	7.2500	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.2500	1	1	2	1
Identification Symbol s, Drawer Master SB-19, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	1	1
Depleted Uranium (1/8x1x2)	0.0000	0.0000	7.0000	1	1	2	6
Depleted Uranium (1x1x2)	0.0000	0.0000	7.2500	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	0.0000	7.2500	1	1	2	1
Depleted Uranium (1x1x2)	0.0000	1.0000	7.0000	1	1	2	1
Depleted Uranium (1x1x2)	1.0000	1.0000	7.0000	1	1	2	1
Identification Symol t, Drawer Master SB-20, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x5)	0.0000	0.0000	0.0000	1	1	1	1
Depleted Uranium (2x2x2)	0.0000	0.0000	5.0000	1	1	2	1
Identification Symbol u, Drawer Master SB-21, Transform Starting X Location for Movable Half							
Depleted Uranium (2x2x2)	0.0000	0.0000	0.0000	1	1	2	1
Depleted Uranium (1/8x2x2)	0.0000	0.0000	4.0000	1	1	4	6
Depleted Uranium (2x2x2)	0.0000	0.0000	4.5000	1	1	2	1

(a) All dimensions and locations are in inch units.

APPENDIX C: VIM MODEL OF "AS-BUILT" ZPR-3/6F LOADING 5

This input for the as-built ZPR-3 Assembly 6F critical assembly was run with Version 5.1 of the VIM code. The ENDF/B-VII.0 continuous energy cross section data were used for all isotopes in the model. All the cross sections correspond to 300 K. The VIM calculation used 10 million histories, with 20000 neutron histories per generation and 500 active generations after skipping 100 generations.

Note that the "experimental k_{eff} adjusted to correspond to the as-built model" is 1.0015 ± 0.0011.VIM "As-Built" model

```
VIM ENDF/B-VII.0 Input Listing, Table C.1.


   111111111ZPR-3/6F   LOADING 05    01/04/57 - V7 XS                      01
   500     3     0   100     0     0                                       02
 20000 50000    10     0     0     0                                       03
     0     1     0     0    50     0                                       04
    36    38     4     1 12759 50000                                       05
 1.00000E+09 1.00000E-05 2.75000E+02 1.00000E+00 1.00000E-05 1.99900E+07   06AN
 9.50000E-01 0.00000E+00 1.00000E+00 0.00000E+00                           06BN
     1     0     0     0     3     0     0     0     0     0     1     0     0   07N
 30300 40300 60300 80300210301210302210303210304220301220303220304220305
220306230301230302230303230304240300270300280301280302280304280305280306
280307280308290300340301340302350300380305380306380307540301540302570300
                                                                           09
                                                                           10
   122    31    31     2   165   160     1                                13
     0     0     0   200                                                   14
     5.54609     5.52577    85.09000                                       15
           0           2           0           2     0.00000     1.00000   16
  RPP    1   0.00000   5.54609   0.00000   0.10160   0.00000   2.54000     17
  RPP    2   0.00000   5.54609   5.42417   5.52577   0.00000   2.54000     17
  RPP    3   0.00000   0.10160   0.10160   5.42417   0.00000   2.54000     17
  RPP    4   5.44449   5.54609   0.10160   5.42417   0.00000   2.54000     17
  RPP    5   0.00000   5.54609   0.00000   0.10160   2.54000   7.74573     17
  RPP    6   0.00000   5.54609   5.42417   5.52577   2.54000   7.74573     17
  RPP    7   0.00000   0.10160   0.10160   5.42417   2.54000   7.74573     17
  RPP    8   5.44449   5.54609   0.10160   5.42417   2.54000   7.74573     17
  RPP    9   0.15177   5.39432   0.10160   5.32130   0.00000   0.12573     17
  RPP   10   0.15177   0.27750   0.22733   5.32130   0.12573   7.74573     17
  RPP   11   5.26860   5.39432   0.22733   5.32130   0.12573   7.74573     17
  RPP   12   0.15177   5.39432   0.10160   0.22733   0.12573   7.74573     17
  RPP   13   0.27750   0.59500   0.22733   5.30733   0.12573   7.74573     17
  RPP   14   0.59500   0.91250   0.22733   5.30733   0.12573   7.74573     17
  RPP   15   0.91250   1.22999   0.22733   5.30733   0.12573   7.74573     17
  RPP   16   1.22999   1.54749   0.22733   5.30733   0.12573   7.74573     17
  RPP   17   1.54749   1.86499   0.22733   5.30733   0.12573   7.74573     17
  RPP   18   1.86499   2.18249   0.22733   5.30733   0.12573   7.74573     17
  RPP   19   2.18249   2.49999   0.22733   5.30733   0.12573   7.74573     17
  RPP   20   2.49999   2.81750   0.22733   5.30733   0.12573   7.74573     17
  RPP   21   2.81750   3.13500   0.22733   5.30733   0.12573   7.74573     17
  RPP   22   3.13500   3.45250   0.22733   5.30733   0.12573   7.74573     17
  RPP   23   3.45250   3.77000   0.22733   5.30733   0.12573   7.74573     17
  RPP   24   3.77000   4.08750   0.22733   5.30733   0.12573   7.74573     17
  RPP   25   4.08750   4.40500   0.22733   5.30733   0.12573   7.74573     17
  RPP   26   4.40500   4.72250   0.22733   5.30733   0.12573   7.74573     17
  RPP   27   4.72250   5.04000   0.22733   5.30733   0.12573   7.74573     17
  RPP   28   0.10160   0.15177   0.10160   5.32130   2.54000   7.74573     17
  RPP   29   5.39432   5.44449   0.10160   5.32130   2.54000   7.74573     17
  RPP   30   0.10160   5.44449   5.32130   5.42417   0.00000   7.74573     17
  RPP   31   0.27750   5.26860   5.30733   5.32130   0.12573   7.74573     17
  RPP   32   5.39432   5.44449   0.10160   5.32130   0.00000   2.54000     17
  RPP   33   0.10160   0.15177   0.10160   5.32130   0.00000   2.54000     17
  RPP   34   5.04000   5.26860   0.22733   5.30733   0.12573   7.74573     17
  RPP   35   0.00000   1.86499   0.00000   0.10160   7.74573  12.82573     17
  RPP   36   1.86499   5.54609   0.00000   0.10160   7.74573  12.82573     17
  RPP   37   0.00000   1.86499   5.42417   5.52577   7.74573  12.82573     17
  RPP   38   1.86499   5.54609   5.42417   5.52577   7.74573  12.82573     17
  RPP   39   0.00000   0.10160   0.10160   5.42417   7.74573  12.82573     17
```

RPP	40	5.44449	5.54609	0.10160	5.42417	7.74573	12.82573	17
RPP	41	0.15177	0.27750	0.22733	5.32130	7.74573	12.82573	17
RPP	42	5.26860	5.39432	0.22733	5.32130	7.74573	12.82573	17
RPP	43	0.15177	1.86499	0.10160	0.22733	7.74573	12.82573	17
RPP	44	1.86499	5.39432	0.10160	0.22733	7.74573	12.82573	17
RPP	45	0.27750	1.86499	0.22733	5.30733	7.74573	12.82573	17
RPP	46	1.86499	2.18249	0.22733	5.30733	7.74573	12.82573	17
RPP	47	2.18249	2.49999	0.22733	5.30733	7.74573	12.82573	17
RPP	48	2.49999	2.81750	0.22733	5.30733	7.74573	12.82573	17
RPP	49	2.81750	3.13500	0.22733	5.30733	7.74573	12.82573	17
RPP	50	3.13500	3.45250	0.22733	5.30733	7.74573	12.82573	17
RPP	51	3.45250	3.77000	0.22733	5.30733	7.74573	12.82573	17
RPP	52	3.77000	4.08750	0.22733	5.30733	7.74573	12.82573	17
RPP	53	4.08750	4.40500	0.22733	5.30733	7.74573	12.82573	17
RPP	54	4.40500	4.72250	0.22733	5.30733	7.74573	12.82573	17
RPP	55	4.72250	5.04000	0.22733	5.30733	7.74573	12.82573	17
RPP	56	0.10160	0.15177	0.10160	5.32130	7.74573	12.82573	17
RPP	57	5.39432	5.44449	0.10160	5.32130	7.74573	12.82573	17
RPP	58	0.10160	1.86499	5.32130	5.42417	7.74573	12.82573	17
RPP	59	1.86499	5.44449	5.32130	5.42417	7.74573	12.82573	17
RPP	60	0.27750	1.86499	5.30733	5.32130	7.74573	12.82573	17
RPP	61	1.86499	5.26860	5.30733	5.32130	7.74573	12.82573	17
RPP	62	5.04000	5.26860	0.22733	5.30733	7.74573	12.82573	17
RPP	63	0.00000	5.54609	0.00000	0.10160	12.82573	66.64198	17
RPP	64	0.00000	5.54609	5.42417	5.52577	12.82573	66.64198	17
RPP	65	0.00000	0.10160	0.10160	5.42417	12.82573	66.64198	17
RPP	66	5.44449	5.54609	0.10160	5.42417	12.82573	66.64198	17
RPP	67	0.15177	0.27750	0.22733	5.32130	12.82573	66.64198	17
RPP	68	5.26860	5.39432	0.22733	5.32130	12.82573	66.64198	17
RPP	69	0.15177	5.39432	0.10160	0.22733	12.82573	66.64198	17
RPP	70	0.27750	4.72250	0.22733	5.30733	38.54323	38.70198	17
RPP	71	0.27750	1.54749	0.22733	5.30733	12.82573	20.44573	17
RPP	72	0.27750	1.54749	0.22733	5.30733	20.44573	28.06573	17
RPP	73	0.27750	1.54749	0.22733	5.30733	28.06573	33.14573	17
RPP	74	0.27750	1.54749	0.22733	5.30733	33.14573	38.22573	17
RPP	75	1.54749	4.08750	0.22733	2.76733	12.82573	38.22573	17
RPP	76	1.54749	4.08750	2.76733	5.30733	12.82573	38.22573	17
RPP	77	4.08750	5.04000	0.22733	5.30733	12.82573	20.44573	17
RPP	78	4.08750	5.04000	0.22733	5.30733	20.44573	28.06573	17
RPP	79	4.08750	5.04000	0.22733	5.30733	28.06573	33.14573	17
RPP	80	4.08750	5.04000	0.22733	5.30733	33.14573	38.22573	17
RPP	81	0.27750	4.72250	0.22733	5.30733	38.22573	38.38448	17
RPP	82	0.27750	4.72250	0.22733	5.30733	38.38448	38.54323	17
RPP	83	0.27750	1.54749	0.22733	5.30733	38.70198	46.32198	17
RPP	84	0.27750	1.54749	0.22733	5.30733	46.32198	53.94198	17
RPP	85	0.27750	1.54749	0.22733	5.30733	53.94198	61.56198	17
RPP	86	1.54749	4.08750	0.22733	5.30733	38.70198	51.40198	17
RPP	87	1.54749	4.08750	0.22733	5.30733	51.40198	56.48198	17
RPP	88	1.54749	4.08750	0.22733	5.30733	56.48198	61.56198	17
RPP	89	4.08750	5.04000	0.22733	5.30733	38.70198	46.32198	17
RPP	90	4.08750	5.04000	0.22733	5.30733	46.32198	53.94198	17
RPP	91	4.08750	5.04000	0.22733	5.30733	53.94198	61.56198	17
RPP	92	0.27750	2.81750	0.22733	5.30733	61.56198	66.64198	17
RPP	93	2.81750	5.04000	0.22733	5.30733	61.56198	66.64198	17
RPP	94	0.10160	0.15177	0.10160	5.32130	12.82573	66.64198	17
RPP	95	5.39432	5.44449	0.10160	5.32130	12.82573	66.64198	17
RPP	96	0.10160	5.44449	5.32130	5.42417	12.82573	66.64198	17
RPP	97	0.27750	5.26860	5.30733	5.32130	12.82573	66.64198	17
RPP	98	4.72250	5.26860	0.22733	5.30733	38.22573	38.70198	17
RPP	99	5.04000	5.26860	0.22733	5.30733	33.14573	38.22573	17
RPP	100	5.04000	5.26860	0.22733	5.30733	38.70198	66.64198	17
RPP	101	5.04000	5.26860	0.22733	5.30733	28.06573	33.14573	17
RPP	102	5.04000	5.26860	0.22733	5.30733	12.82573	20.44573	17
RPP	103	5.04000	5.26860	0.22733	5.30733	20.44573	28.06573	17
RPP	104	0.00000	5.54609	0.00000	0.10160	66.64198	82.55000	17
RPP	105	0.00000	5.54609	5.42417	5.52577	66.64198	82.55000	17
RPP	106	0.00000	0.10160	0.10160	5.42417	66.64198	82.55000	17
RPP	107	5.44449	5.54609	0.10160	5.42417	66.64198	82.55000	17
RPP	108	0.15177	5.39432	0.10160	5.32130	82.42427	82.55000	17
RPP	109	0.15177	0.27750	0.22733	5.32130	66.64198	82.42427	17
RPP	110	5.26860	5.39432	0.22733	5.32130	66.64198	82.42427	17
RPP	111	0.15177	5.39432	0.10160	0.22733	66.64198	82.42427	17

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RPP  112   0.10160   0.15177   0.10160   5.32130  66.64198  82.55000     17
RPP  113   5.39432   5.44449   0.10160   5.32130  66.64198  82.55000     17
RPP  114   0.10160   5.44449   5.32130   5.42417  66.64198  82.55000     17
RPP  115   0.27750   5.26860   0.22733   5.32130  66.64198  82.42427     17
RPP  116   0.00000   5.54609   0.00000   0.10160  82.55000  85.09000     17
RPP  117   0.00000   5.54609   5.42417   5.52577  82.55000  85.09000     17
RPP  118   0.00000   0.10160   0.10160   5.42417  82.55000  85.09000     17
RPP  119   5.44449   5.54609   0.10160   5.42417  82.55000  85.09000     17
RPP  120   2.44475   3.07975   0.10160   5.18160  82.55000  85.09000     17
RPP  121   0.10160   5.44449   5.18160   5.42417  82.55000  85.09000     17
RPP  122   0.10160   2.44475   0.10160   5.18160  82.55000  85.09000     17
RPP  123   3.07975   5.44449   0.10160   5.18160  82.55000  85.09000     17
RPP  124   0.00000   3.45250   0.00000   0.10160   7.74573  12.82573     17
RPP  125   3.45250   5.54609   0.00000   0.10160   7.74573  12.82573     17
RPP  126   0.00000   3.45250   5.42417   5.52577   7.74573  12.82573     17
RPP  127   3.45250   5.54609   5.42417   5.52577   7.74573  12.82573     17
RPP  128   0.15177   3.45250   0.10160   0.22733   7.74573  12.82573     17
RPP  129   3.45250   5.39432   0.10160   0.22733   7.74573  12.82573     17
RPP  130   0.27750   0.59500   0.22733   5.30733   7.74573  12.82573     17
RPP  131   0.59500   0.91250   0.22733   5.30733   7.74573  12.82573     17
RPP  132   0.91250   1.22999   0.22733   5.30733   7.74573  12.82573     17
RPP  133   1.22999   1.54749   0.22733   5.30733   7.74573  12.82573     17
RPP  134   1.54749   1.86499   0.22733   5.30733   7.74573  12.82573     17
RPP  135   3.45250   5.04000   0.22733   5.30733   7.74573  12.82573     17
RPP  136   0.10160   3.45250   5.32130   5.42417   7.74573  12.82573     17
RPP  137   3.45250   5.44449   5.32130   5.42417   7.74573  12.82573     17
RPP  138   0.27750   3.45250   5.30733   5.32130   7.74573  12.82573     17
RPP  139   3.45250   5.26860   5.30733   5.32130   7.74573  12.82573     17
RPP  140   0.00000   5.54609   0.00000   0.10160  12.82573  64.10198     17
RPP  141   0.00000   5.54609   5.42417   5.52577  12.82573  64.10198     17
RPP  142   0.00000   0.10160   0.10160   5.42417  12.82573  64.10198     17
RPP  143   5.44449   5.54609   0.10160   5.42417  12.82573  64.10198     17
RPP  144   0.15177   0.27750   0.22733   5.32130  12.82573  64.10198     17
RPP  145   5.26860   5.39432   0.22733   5.32130  12.82573  64.10198     17
RPP  146   0.15177   5.39432   0.10160   0.22733  12.82573  64.10198     17
RPP  147   0.27750   2.81750   0.22733   5.30733  61.56198  64.10198     17
RPP  148   2.81750   5.04000   0.22733   5.30733  61.56198  64.10198     17
RPP  149   0.10160   0.15177   0.10160   5.32130  12.82573  64.10198     17
RPP  150   5.39432   5.44449   0.10160   5.32130  12.82573  64.10198     17
RPP  151   0.10160   5.44449   5.32130   5.42417  12.82573  64.10198     17
RPP  152   0.27750   5.26860   5.30733   5.32130  12.82573  64.10198     17
RPP  153   5.04000   5.26860   0.22733   5.30733  38.70198  64.10198     17
RPP  154   0.00000   5.54609   0.00000   0.10160  64.10198  82.55000     17
RPP  155   0.00000   5.54609   5.42417   5.52577  64.10198  82.55000     17
RPP  156   0.00000   0.10160   0.10160   5.42417  64.10198  82.55000     17
RPP  157   5.44449   5.54609   0.10160   5.42417  64.10198  82.55000     17
RPP  158   0.15177   0.27750   0.22733   5.32130  64.10198  82.42427     17
RPP  159   5.26860   5.39432   0.22733   5.32130  64.10198  82.42427     17
RPP  160   0.15177   5.39432   0.10160   0.22733  64.10198  82.42427     17
RPP  161   0.10160   0.15177   0.10160   5.32130  64.10198  82.55000     17
RPP  162   5.39432   5.44449   0.10160   5.32130  64.10198  82.55000     17
RPP  163   0.10160   5.44449   5.32130   5.42417  64.10198  82.55000     17
RPP  164   0.27750   5.26860   0.22733   5.32130  64.10198  82.42427     17
RPP  165   0.00000   0.10160   0.10160   2.76733   0.00000   2.54000     17
RPP  166   0.00000   0.10160   2.76733   5.42417   0.00000   2.54000     17
RPP  167   5.44449   5.54609   0.10160   2.76733   0.00000   2.54000     17
RPP  168   5.44449   5.54609   2.76733   5.42417   0.00000   2.54000     17
RPP  169   0.00000   5.54609   0.00000   0.10160   2.54000  10.28573     17
RPP  170   0.00000   5.54609   5.42417   5.52577   2.54000  10.28573     17
RPP  171   0.00000   0.10160   0.10160   2.76733   2.54000  10.28573     17
RPP  172   0.00000   0.10160   2.76733   5.42417   2.54000  10.28573     17
RPP  173   5.44449   5.54609   0.10160   2.76733   2.54000  10.28573     17
RPP  174   5.44449   5.54609   2.76733   5.42417   2.54000  10.28573     17
RPP  175   0.15177   5.39432   0.10160   2.76733   0.00000   0.12573     17
RPP  176   0.15177   5.39432   2.76733   5.32130   0.00000   0.12573     17
RPP  177   0.15177   0.27750   0.22733   2.76733   0.12573  10.28573     17
RPP  178   0.15177   0.27750   2.76733   5.32130   0.12573  10.28573     17
RPP  179   5.26860   5.39432   0.22733   2.76733   0.12573  10.28573     17
RPP  180   5.26860   5.39432   2.76733   5.32130   0.12573  10.28573     17
RPP  181   0.15177   5.39432   0.10160   0.22733   0.12573  10.28573     17
RPP  182   1.22999   3.77000   0.22733   2.76733   0.12573  10.28573     17
RPP  183   0.27750   1.22999   0.22733   2.76733   0.12573   5.20573     17
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RPP  184   0.27750   1.22999   0.22733   2.76733   5.20573  10.28573     17
RPP  185   3.77000   5.04000   0.22733   2.76733   0.12573   5.20573     17
RPP  186   3.77000   5.04000   0.22733   2.76733   5.20573  10.28573     17
RPP  187   0.27750   0.59500   2.76733   5.30733   0.12573  10.28573     17
RPP  188   0.59500   0.91250   2.76733   5.30733   0.12573  10.28573     17
RPP  189   0.91250   1.22999   2.76733   5.30733   0.12573  10.28573     17
RPP  190   1.22999   1.54749   2.76733   5.30733   0.12573  10.28573     17
RPP  191   1.54749   1.86499   2.76733   5.30733   0.12573  10.28573     17
RPP  192   1.86499   2.18249   2.76733   5.30733   0.12573  10.28573     17
RPP  193   2.18249   2.49999   2.76733   5.30733   0.12573  10.28573     17
RPP  194   2.49999   2.81750   2.76733   5.30733   0.12573  10.28573     17
RPP  195   2.81750   3.13500   2.76733   5.30733   0.12573  10.28573     17
RPP  196   3.13500   3.45250   2.76733   5.30733   0.12573  10.28573     17
RPP  197   3.45250   3.77000   2.76733   5.30733   0.12573  10.28573     17
RPP  198   3.77000   4.08750   2.76733   5.30733   0.12573  10.28573     17
RPP  199   4.08750   4.40500   2.76733   5.30733   0.12573  10.28573     17
RPP  200   4.40500   4.72250   2.76733   5.30733   0.12573  10.28573     17
RPP  201   4.72250   5.04000   2.76733   5.30733   0.12573  10.28573     17
RPP  202   0.10160   0.15177   0.10160   2.76733   2.54000  10.28573     17
RPP  203   0.10160   0.15177   2.76733   5.32130   2.54000  10.28573     17
RPP  204   5.39432   5.44449   0.10160   2.76733   2.54000  10.28573     17
RPP  205   5.39432   5.44449   2.76733   5.32130   2.54000  10.28573     17
RPP  206   0.10160   5.44449   5.32130   5.42417   0.00000  10.28573     17
RPP  207   0.27750   5.26860   5.30733   5.32130   0.12573  10.28573     17
RPP  208   5.39432   5.44449   0.10160   2.76733   0.00000   2.54000     17
RPP  209   5.39432   5.44449   2.76733   5.32130   0.00000   2.54000     17
RPP  210   0.10160   0.15177   0.10160   2.76733   0.00000   2.54000     17
RPP  211   0.10160   0.15177   2.76733   5.32130   0.00000   2.54000     17
RPP  212   5.04000   5.26860   0.22733   2.76733   0.12573  10.28573     17
RPP  213   5.04000   5.26860   2.76733   5.30733   0.12573  10.28573     17
RPP  214   0.00000   5.54609   0.00000   0.10160  10.28573  64.10198     17
RPP  215   0.00000   5.54609   5.42417   5.52577  10.28573  64.10198     17
RPP  216   0.00000   0.10160   0.10160   5.42417  10.28573  64.10198     17
RPP  217   5.44449   5.54609   0.10160   5.42417  10.28573  64.10198     17
RPP  218   0.15177   0.27750   0.22733   5.32130  10.28573  64.10198     17
RPP  219   5.26860   5.39432   0.22733   5.32130  10.28573  64.10198     17
RPP  220   0.15177   5.39432   0.10160   0.22733  10.28573  64.10198     17
RPP  221   0.27750   1.54749   0.22733   5.30733  10.28573  17.90573     17
RPP  222   0.27750   1.54749   0.22733   5.30733  17.90573  25.52573     17
RPP  223   0.27750   1.54749   0.22733   5.30733  25.52573  33.14573     17
RPP  224   1.54749   4.08750   0.22733   5.30733  10.28573  22.98573     17
RPP  225   1.54749   4.08750   0.22733   5.30733  22.98573  30.60573     17
RPP  226   1.54749   4.08750   0.22733   5.30733  30.60573  38.22573     17
RPP  227   4.08750   5.04000   0.22733   5.30733  10.28573  17.90573     17
RPP  228   4.08750   5.04000   0.22733   5.30733  17.90573  25.52573     17
RPP  229   4.08750   5.04000   0.22733   5.30733  25.52573  33.14573     17
RPP  230   0.27750   1.54749   0.22733   5.30733  53.94198  59.02198     17
RPP  231   1.54749   4.08750   0.22733   5.30733  51.40198  59.02198     17
RPP  232   4.08750   5.04000   0.22733   5.30733  53.94198  59.02198     17
RPP  233   0.27750   2.81750   0.22733   5.30733  59.02198  64.10198     17
RPP  234   2.81750   5.04000   0.22733   5.30733  59.02198  64.10198     17
RPP  235   0.10160   0.15177   0.10160   5.32130  10.28573  64.10198     17
RPP  236   5.39432   5.44449   0.10160   5.32130  10.28573  64.10198     17
RPP  237   0.10160   5.44449   5.32130   5.42417  10.28573  64.10198     17
RPP  238   0.27750   5.26860   5.30733   5.32130  10.28573  64.10198     17
RPP  239   5.04000   5.26860   0.22733   5.30733  10.28573  38.22573     17
RPP  240   0.00000   5.54609   0.00000   0.10160   2.54000  22.98573     17
RPP  241   0.00000   5.54609   5.42417   5.52577   2.54000  22.98573     17
RPP  242   0.00000   0.10160   0.10160   5.42417   2.54000  22.98573     17
RPP  243   5.44449   5.54609   0.10160   5.42417   2.54000  22.98573     17
RPP  244   5.26860   5.39432   0.22733   5.32130   0.12573  22.98573     17
RPP  245   0.15177   0.27750   0.22733   5.32130   0.12573  22.98573     17
RPP  246   0.15177   5.39432   0.10160   0.22733   0.12573  22.98573     17
RPP  247   4.95109   5.26860   0.22733   5.30733   0.12573  22.98573     17
RPP  248   4.63359   4.95109   0.22733   5.30733   0.12573  22.98573     17
RPP  249   4.31609   4.63359   0.22733   5.30733   0.12573  22.98573     17
RPP  250   3.99859   4.31609   0.22733   5.30733   0.12573  22.98573     17
RPP  251   3.68110   3.99859   0.22733   5.30733   0.12573  22.98573     17
RPP  252   3.36359   3.68110   0.22733   5.30733   0.12573  22.98573     17
RPP  253   3.04609   3.36359   0.22733   5.30733   0.12573  22.98573     17
RPP  254   2.72859   3.04609   0.22733   5.30733   0.12573  22.98573     17
RPP  255   2.41109   2.72859   0.22733   5.30733   0.12573  22.98573     17
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RPP  256   2.09360   2.41109   0.22733   5.30733   0.12573  22.98573     17
RPP  257   1.77610   2.09360   0.22733   5.30733   0.12573  22.98573     17
RPP  258   1.45860   1.77610   0.22733   5.30733   0.12573  22.98573     17
RPP  259   1.14109   1.45860   0.22733   5.30733   0.12573  22.98573     17
RPP  260   0.82359   1.14109   0.22733   5.30733   0.12573  22.98573     17
RPP  261   0.50610   0.82359   0.22733   5.30733   0.12573  22.98573     17
RPP  262   0.10160   0.15177   0.10160   5.32130   2.54000  22.98573     17
RPP  263   5.39432   5.44449   0.10160   5.32130   2.54000  22.98573     17
RPP  264   0.10160   5.44449   5.32130   5.42417   0.00000  22.98573     17
RPP  265   0.27750   5.26860   5.30733   5.32130   0.12573  22.98573     17
RPP  266   0.27750   0.50610   0.22733   5.30733   0.12573  22.98573     17
RPP  267   0.00000   5.54609   0.00000   0.10160  22.98573  71.72198     17
RPP  268   0.00000   5.54609   5.42417   5.52577  22.98573  71.72198     17
RPP  269   0.00000   0.10160   0.10160   5.42417  22.98573  71.72198     17
RPP  270   5.44449   5.54609   0.10160   5.42417  22.98573  71.72198     17
RPP  271   5.26860   5.39432   0.22733   5.32130  22.98573  71.72198     17
RPP  272   0.15177   0.27750   0.22733   5.32130  22.98573  71.72198     17
RPP  273   0.15177   5.39432   0.10160   0.22733  22.98573  71.72198     17
RPP  274   0.82359   5.26860   0.22733   5.30733  38.54323  38.70198     17
RPP  275   2.72859   5.26860   0.22733   5.30733  22.98573  30.60573     17
RPP  276   0.50610   2.72859   0.22733   5.30733  22.98573  30.60573     17
RPP  277   2.72859   5.26860   0.22733   5.30733  30.60573  38.22573     17
RPP  278   0.50610   2.72859   0.22733   5.30733  30.60573  38.22573     17
RPP  279   0.82359   5.26860   0.22733   5.30733  38.22573  38.38448     17
RPP  280   0.82359   5.26860   0.22733   5.30733  38.38448  38.54323     17
RPP  281   2.72859   5.26860   0.22733   5.30733  38.70198  46.32198     17
RPP  282   0.50610   2.72859   0.22733   5.30733  38.70198  46.32198     17
RPP  283   2.72859   5.26860   0.22733   5.30733  46.32198  51.40198     17
RPP  284   0.50610   2.72859   0.22733   5.30733  46.32198  51.40198     17
RPP  285   2.72859   5.26860   0.22733   5.30733  51.40198  59.02198     17
RPP  286   0.50610   2.72859   0.22733   5.30733  51.40198  59.02198     17
RPP  287   2.72859   5.26860   0.22733   5.30733  59.02198  64.10198     17
RPP  288   0.50610   2.72859   0.22733   5.30733  59.02198  64.10198     17
RPP  289   2.72859   5.26860   0.22733   5.30733  64.10198  71.72198     17
RPP  290   0.50610   2.72859   0.22733   5.30733  64.10198  71.72198     17
RPP  291   0.10160   0.15177   0.10160   5.32130  22.98573  71.72198     17
RPP  292   5.39432   5.44449   0.10160   5.32130  22.98573  71.72198     17
RPP  293   0.10160   5.44449   5.32130   5.42417  22.98573  71.72198     17
RPP  294   0.27750   5.26860   5.30733   5.32130  22.98573  71.72198     17
RPP  295   0.27750   0.82359   0.22733   5.30733  38.22573  38.70198     17
RPP  296   0.27750   0.50610   0.22733   5.30733  22.98573  38.22573     17
RPP  297   0.27750   0.50610   0.22733   5.30733  38.70198  71.72198     17
RPP  298   0.00000   5.54609   0.00000   0.10160  71.72198  82.55000     17
RPP  299   0.00000   5.54609   5.42417   5.52577  71.72198  82.55000     17
RPP  300   0.00000   0.10160   0.10160   5.42417  71.72198  82.55000     17
RPP  301   5.44449   5.54609   0.10160   5.42417  71.72198  82.55000     17
RPP  302   5.26860   5.39432   0.22733   5.32130  71.72198  82.42427     17
RPP  303   0.15177   0.27750   0.22733   5.32130  71.72198  82.42427     17
RPP  304   0.15177   5.39432   0.10160   0.22733  71.72198  82.42427     17
RPP  305   0.10160   0.15177   0.10160   5.32130  71.72198  82.55000     17
RPP  306   5.39432   5.44449   0.10160   5.32130  71.72198  82.55000     17
RPP  307   0.10160   5.44449   5.32130   5.42417  71.72198  82.55000     17
RPP  308   0.27750   5.26860   0.22733   5.32130  71.72198  82.42427     17
RPP  309   2.46634   3.10134   0.10160   5.18160  82.55000  85.09000     17
RPP  310   0.10160   2.46634   0.10160   5.18160  82.55000  85.09000     17
RPP  311   3.10134   5.44449   0.10160   5.18160  82.55000  85.09000     17
RPP  312   4.95109   5.26860   0.22733   5.30733   0.12573   7.74573     17
RPP  313   4.63359   4.95109   0.22733   5.30733   0.12573   7.74573     17
RPP  314   4.31609   4.63359   0.22733   5.30733   0.12573   7.74573     17
RPP  315   3.99859   4.31609   0.22733   5.30733   0.12573   7.74573     17
RPP  316   3.68110   3.99859   0.22733   5.30733   0.12573   7.74573     17
RPP  317   3.36359   3.68110   0.22733   5.30733   0.12573   7.74573     17
RPP  318   3.04609   3.36359   0.22733   5.30733   0.12573   7.74573     17
RPP  319   2.72859   3.04609   0.22733   5.30733   0.12573   7.74573     17
RPP  320   2.41109   2.72859   0.22733   5.30733   0.12573   7.74573     17
RPP  321   2.09360   2.41109   0.22733   5.30733   0.12573   7.74573     17
RPP  322   1.77610   2.09360   0.22733   5.30733   0.12573   7.74573     17
RPP  323   1.45860   1.77610   0.22733   5.30733   0.12573   7.74573     17
RPP  324   1.14109   1.45860   0.22733   5.30733   0.12573   7.74573     17
RPP  325   0.82359   1.14109   0.22733   5.30733   0.12573   7.74573     17
RPP  326   0.50610   0.82359   0.22733   5.30733   0.12573   7.74573     17
RPP  327   0.27750   0.50610   0.22733   5.30733   0.12573   7.74573     17
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RPP  328   0.00000   3.68110   0.00000   0.10160   7.74573  12.82573     17
RPP  329   3.68110   5.54609   0.00000   0.10160   7.74573  12.82573     17
RPP  330   0.00000   3.68110   5.42417   5.52577   7.74573  12.82573     17
RPP  331   3.68110   5.54609   5.42417   5.52577   7.74573  12.82573     17
RPP  332   0.15177   3.68110   0.10160   0.22733   7.74573  12.82573     17
RPP  333   3.68110   5.39432   0.10160   0.22733   7.74573  12.82573     17
RPP  334   3.68110   5.26860   0.22733   5.30733   7.74573  12.82573     17
RPP  335   3.36359   3.68110   0.22733   5.30733   7.74573  12.82573     17
RPP  336   3.04609   3.36359   0.22733   5.30733   7.74573  12.82573     17
RPP  337   2.72859   3.04609   0.22733   5.30733   7.74573  12.82573     17
RPP  338   2.41109   2.72859   0.22733   5.30733   7.74573  12.82573     17
RPP  339   2.09360   2.41109   0.22733   5.30733   7.74573  12.82573     17
RPP  340   1.77610   2.09360   0.22733   5.30733   7.74573  12.82573     17
RPP  341   1.45860   1.77610   0.22733   5.30733   7.74573  12.82573     17
RPP  342   1.14109   1.45860   0.22733   5.30733   7.74573  12.82573     17
RPP  343   0.82359   1.14109   0.22733   5.30733   7.74573  12.82573     17
RPP  344   0.50610   0.82359   0.22733   5.30733   7.74573  12.82573     17
RPP  345   0.10160   3.68110   5.32130   5.42417   7.74573  12.82573     17
RPP  346   3.68110   5.44449   5.32130   5.42417   7.74573  12.82573     17
RPP  347   0.27750   3.68110   5.30733   5.32130   7.74573  12.82573     17
RPP  348   3.68110   5.26860   5.30733   5.32130   7.74573  12.82573     17
RPP  349   0.27750   0.50610   0.22733   5.30733   7.74573  12.82573     17
RPP  350   3.99859   5.26860   0.22733   5.30733  12.82573  20.44573     17
RPP  351   3.99859   5.26860   0.22733   5.30733  20.44573  28.06573     17
RPP  352   3.99859   5.26860   0.22733   5.30733  28.06573  33.14573     17
RPP  353   3.99859   5.26860   0.22733   5.30733  33.14573  38.22573     17
RPP  354   1.45860   3.99859   0.22733   2.76733  12.82573  38.22573     17
RPP  355   1.45860   3.99859   2.76733   5.30733  12.82573  38.22573     17
RPP  356   0.50610   1.45860   0.22733   5.30733  12.82573  20.44573     17
RPP  357   0.50610   1.45860   0.22733   5.30733  20.44573  28.06573     17
RPP  358   0.50610   1.45860   0.22733   5.30733  28.06573  33.14573     17
RPP  359   0.50610   1.45860   0.22733   5.30733  33.14573  38.22573     17
RPP  360   3.99859   5.26860   0.22733   5.30733  38.70198  46.32198     17
RPP  361   3.99859   5.26860   0.22733   5.30733  46.32198  53.94198     17
RPP  362   3.99859   5.26860   0.22733   5.30733  53.94198  61.56198     17
RPP  363   1.45860   3.99859   0.22733   5.30733  38.70198  51.40198     17
RPP  364   1.45860   3.99859   0.22733   5.30733  51.40198  56.48198     17
RPP  365   1.45860   3.99859   0.22733   5.30733  56.48198  61.56198     17
RPP  366   0.50610   1.45860   0.22733   5.30733  38.70198  46.32198     17
RPP  367   0.50610   1.45860   0.22733   5.30733  46.32198  53.94198     17
RPP  368   0.50610   1.45860   0.22733   5.30733  53.94198  61.56198     17
RPP  369   2.72859   5.26860   0.22733   5.30733  61.56198  66.64198     17
RPP  370   0.50610   2.72859   0.22733   5.30733  61.56198  66.64198     17
RPP  371   0.27750   0.50610   0.22733   5.30733  33.14573  38.22573     17
RPP  372   0.27750   0.50610   0.22733   5.30733  38.70198  66.64198     17
RPP  373   0.27750   0.50610   0.22733   5.30733  28.06573  33.14573     17
RPP  374   0.27750   0.50610   0.22733   5.30733  12.82573  20.44573     17
RPP  375   0.27750   0.50610   0.22733   5.30733  20.44573  28.06573     17
RPP  376   0.00000   2.09360   0.00000   0.10160   7.74573  12.82573     17
RPP  377   2.09360   5.54609   0.00000   0.10160   7.74573  12.82573     17
RPP  378   0.00000   2.09360   5.42417   5.52577   7.74573  12.82573     17
RPP  379   2.09360   5.54609   5.42417   5.52577   7.74573  12.82573     17
RPP  380   0.15177   2.09360   0.10160   0.22733   7.74573  12.82573     17
RPP  381   2.09360   5.39432   0.10160   0.22733   7.74573  12.82573     17
RPP  382   4.95109   5.26860   0.22733   5.30733   7.74573  12.82573     17
RPP  383   4.63359   4.95109   0.22733   5.30733   7.74573  12.82573     17
RPP  384   4.31609   4.63359   0.22733   5.30733   7.74573  12.82573     17
RPP  385   3.99859   4.31609   0.22733   5.30733   7.74573  12.82573     17
RPP  386   3.68110   3.99859   0.22733   5.30733   7.74573  12.82573     17
RPP  387   0.50610   2.09360   0.22733   5.30733   7.74573  12.82573     17
RPP  388   0.10160   2.09360   5.32130   5.42417   7.74573  12.82573     17
RPP  389   2.09360   5.44449   5.32130   5.42417   7.74573  12.82573     17
RPP  390   0.27750   2.09360   5.30733   5.32130   7.74573  12.82573     17
RPP  391   2.09360   5.26860   5.30733   5.32130   7.74573  12.82573     17
RPP  392   2.72859   5.26860   0.22733   5.30733  61.56198  64.10198     17
RPP  393   0.50610   2.72859   0.22733   5.30733  61.56198  64.10198     17
RPP  394   0.27750   0.50610   0.22733   5.30733  38.70198  64.10198     17
RPP  395   0.00000   5.54609   0.00000   0.10160   2.54000  15.36573     17
RPP  396   0.00000   5.54609   5.42417   5.52577   2.54000  15.36573     17
RPP  397   0.00000   0.10160   0.10160   5.42417   2.54000  15.36573     17
RPP  398   5.44449   5.54609   0.10160   5.42417   2.54000  15.36573     17
RPP  399   0.15177   0.27750   0.22733   5.32130   0.12573  15.36573     17
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RPP  400   5.26860   5.39432   0.22733   5.32130   0.12573  15.36573     17
RPP  401   0.15177   5.39432   0.10160   0.22733   0.12573  15.36573     17
RPP  402   0.27750   0.59500   0.22733   5.30733   0.12573  15.36573     17
RPP  403   0.59500   0.91250   0.22733   5.30733   0.12573  15.36573     17
RPP  404   0.91250   1.22999   0.22733   5.30733   0.12573  15.36573     17
RPP  405   1.22999   1.54749   0.22733   5.30733   0.12573  15.36573     17
RPP  406   1.54749   1.86499   0.22733   5.30733   0.12573  15.36573     17
RPP  407   1.86499   2.18249   0.22733   5.30733   0.12573  15.36573     17
RPP  408   2.18249   2.49999   0.22733   5.30733   0.12573  15.36573     17
RPP  409   2.49999   2.81750   0.22733   5.30733   0.12573  15.36573     17
RPP  410   2.81750   3.13500   0.22733   5.30733   0.12573  15.36573     17
RPP  411   3.13500   3.45250   0.22733   5.30733   0.12573  15.36573     17
RPP  412   3.45250   3.77000   0.22733   5.30733   0.12573  15.36573     17
RPP  413   3.77000   4.08750   0.22733   5.30733   0.12573  15.36573     17
RPP  414   4.08750   4.40500   0.22733   5.30733   0.12573  15.36573     17
RPP  415   4.40500   4.72250   0.22733   5.30733   0.12573  15.36573     17
RPP  416   4.72250   5.04000   0.22733   5.30733   0.12573  15.36573     17
RPP  417   0.10160   0.15177   0.10160   5.32130   2.54000  15.36573     17
RPP  418   5.39432   5.44449   0.10160   5.32130   2.54000  15.36573     17
RPP  419   0.10160   5.44449   5.32130   5.42417   0.00000  15.36573     17
RPP  420   0.27750   5.26860   5.30733   5.32130   0.12573  15.36573     17
RPP  421   5.04000   5.26860   0.22733   5.30733   0.12573  15.36573     17
RPP  422   0.00000   3.13500   0.00000   0.10160  15.36573  16.63573     17
RPP  423   3.13500   5.54609   0.00000   0.10160  15.36573  16.63573     17
RPP  424   0.00000   3.13500   5.42417   5.52577  15.36573  16.63573     17
RPP  425   3.13500   5.54609   5.42417   5.52577  15.36573  16.63573     17
RPP  426   0.00000   0.10160   0.10160   5.42417  15.36573  16.63573     17
RPP  427   5.44449   5.54609   0.10160   5.42417  15.36573  16.63573     17
RPP  428   0.15177   0.27750   0.22733   5.32130  15.36573  16.63573     17
RPP  429   5.26860   5.39432   0.22733   5.32130  15.36573  16.63573     17
RPP  430   0.15177   3.13500   0.10160   0.22733  15.36573  16.63573     17
RPP  431   3.13500   5.39432   0.10160   0.22733  15.36573  16.63573     17
RPP  432   0.27750   3.13500   0.22733   5.30733  15.36573  16.63573     17
RPP  433   3.45250   3.77000   0.22733   5.30733  15.36573  16.63573     17
RPP  434   3.13500   3.45250   0.22733   5.30733  15.36573  16.63573     17
RPP  435   3.77000   4.08750   0.22733   5.30733  15.36573  16.63573     17
RPP  436   4.08750   4.40500   0.22733   5.30733  15.36573  16.63573     17
RPP  437   4.40500   4.72250   0.22733   5.30733  15.36573  16.63573     17
RPP  438   4.72250   5.04000   0.22733   5.30733  15.36573  16.63573     17
RPP  439   0.10160   0.15177   0.10160   5.32130  15.36573  16.63573     17
RPP  440   5.39432   5.44449   0.10160   5.32130  15.36573  16.63573     17
RPP  441   0.10160   3.13500   5.32130   5.42417  15.36573  16.63573     17
RPP  442   3.13500   5.44449   5.32130   5.42417  15.36573  16.63573     17
RPP  443   0.27750   3.13500   5.30733   5.32130  15.36573  16.63573     17
RPP  444   3.13500   5.26860   5.30733   5.32130  15.36573  16.63573     17
RPP  445   5.04000   5.26860   0.22733   5.30733  15.36573  16.63573     17
RPP  446   0.00000   5.54609   0.00000   0.10160  16.63573  64.10198     17
RPP  447   0.00000   5.54609   5.42417   5.52577  16.63573  64.10198     17
RPP  448   0.00000   0.10160   0.10160   5.42417  16.63573  64.10198     17
RPP  449   5.44449   5.54609   0.10160   5.42417  16.63573  64.10198     17
RPP  450   0.15177   0.27750   0.22733   5.32130  16.63573  64.10198     17
RPP  451   5.26860   5.39432   0.22733   5.32130  16.63573  64.10198     17
RPP  452   0.15177   5.39432   0.10160   0.22733  16.63573  64.10198     17
RPP  453   0.27750   3.13500   0.22733   5.30733  16.63573  17.90573     17
RPP  454   3.13500   3.45250   0.22733   5.30733  16.63573  17.90573     17
RPP  455   3.45250   3.77000   0.22733   5.30733  16.63573  17.90573     17
RPP  456   3.77000   4.08750   0.22733   5.30733  16.63573  17.90573     17
RPP  457   4.08750   4.40500   0.22733   5.30733  16.63573  17.90573     17
RPP  458   4.40500   4.72250   0.22733   5.30733  16.63573  17.90573     17
RPP  459   4.72250   5.04000   0.22733   5.30733  16.63573  17.90573     17
RPP  460   0.27750   2.81750   0.22733   5.30733  17.90573  25.52573     17
RPP  461   2.81750   5.04000   0.22733   5.30733  17.90573  25.52573     17
RPP  462   0.27750   2.81750   0.22733   5.30733  25.52573  33.14573     17
RPP  463   2.81750   5.04000   0.22733   5.30733  25.52573  33.14573     17
RPP  464   0.27750   2.81750   0.22733   5.30733  33.14573  38.22573     17
RPP  465   2.81750   5.04000   0.22733   5.30733  33.14573  38.22573     17
RPP  466   0.27750   2.81750   0.22733   5.30733  38.70198  46.32198     17
RPP  467   2.81750   5.04000   0.22733   5.30733  38.70198  46.32198     17
RPP  468   0.27750   2.81750   0.22733   5.30733  46.32198  53.94198     17
RPP  469   2.81750   5.04000   0.22733   5.30733  46.32198  53.94198     17
RPP  470   0.27750   2.81750   0.22733   5.30733  53.94198  59.02198     17
RPP  471   2.81750   5.04000   0.22733   5.30733  53.94198  59.02198     17
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RPP  472   0.10160   0.15177   0.10160   5.32130  16.63573  64.10198     17
RPP  473   5.39432   5.44449   0.10160   5.32130  16.63573  64.10198     17
RPP  474   0.10160   5.44449   5.32130   5.42417  16.63573  64.10198     17
RPP  475   0.27750   5.26860   5.30733   5.32130  16.63573  64.10198     17
RPP  476   5.04000   5.26860   0.22733   5.30733  16.63573  38.22573     17
RPP  477   4.95109   5.26860   0.22733   5.30733   0.12573  15.36573     17
RPP  478   4.63359   4.95109   0.22733   5.30733   0.12573  15.36573     17
RPP  479   4.31609   4.63359   0.22733   5.30733   0.12573  15.36573     17
RPP  480   3.99859   4.31609   0.22733   5.30733   0.12573  15.36573     17
RPP  481   3.68110   3.99859   0.22733   5.30733   0.12573  15.36573     17
RPP  482   3.36359   3.68110   0.22733   5.30733   0.12573  15.36573     17
RPP  483   3.04609   3.36359   0.22733   5.30733   0.12573  15.36573     17
RPP  484   2.72859   3.04609   0.22733   5.30733   0.12573  15.36573     17
RPP  485   2.41109   2.72859   0.22733   5.30733   0.12573  15.36573     17
RPP  486   2.09360   2.41109   0.22733   5.30733   0.12573  15.36573     17
RPP  487   1.77610   2.09360   0.22733   5.30733   0.12573  15.36573     17
RPP  488   1.45860   1.77610   0.22733   5.30733   0.12573  15.36573     17
RPP  489   1.14109   1.45860   0.22733   5.30733   0.12573  15.36573     17
RPP  490   0.82359   1.14109   0.22733   5.30733   0.12573  15.36573     17
RPP  491   0.50610   0.82359   0.22733   5.30733   0.12573  15.36573     17
RPP  492   0.27750   0.50610   0.22733   5.30733   0.12573  15.36573     17
RPP  493   0.00000   2.41109   0.00000   0.10160  15.36573  16.63573     17
RPP  494   2.41109   5.54609   0.00000   0.10160  15.36573  16.63573     17
RPP  495   0.00000   2.41109   5.42417   5.52577  15.36573  16.63573     17
RPP  496   2.41109   5.54609   5.42417   5.52577  15.36573  16.63573     17
RPP  497   0.15177   2.41109   0.10160   0.22733  15.36573  16.63573     17
RPP  498   2.41109   5.39432   0.10160   0.22733  15.36573  16.63573     17
RPP  499   2.41109   5.26860   0.22733   5.30733  15.36573  16.63573     17
RPP  500   1.77610   2.09360   0.22733   5.30733  15.36573  16.63573     17
RPP  501   2.09360   2.41109   0.22733   5.30733  15.36573  16.63573     17
RPP  502   1.45860   1.77610   0.22733   5.30733  15.36573  16.63573     17
RPP  503   1.14109   1.45860   0.22733   5.30733  15.36573  16.63573     17
RPP  504   0.82359   1.14109   0.22733   5.30733  15.36573  16.63573     17
RPP  505   0.50610   0.82359   0.22733   5.30733  15.36573  16.63573     17
RPP  506   0.10160   2.41109   5.32130   5.42417  15.36573  16.63573     17
RPP  507   2.41109   5.44449   5.32130   5.42417  15.36573  16.63573     17
RPP  508   0.27750   2.41109   5.30733   5.32130  15.36573  16.63573     17
RPP  509   2.41109   5.26860   5.30733   5.32130  15.36573  16.63573     17
RPP  510   0.27750   0.50610   0.22733   5.30733  15.36573  16.63573     17
RPP  511   2.41109   5.26860   0.22733   5.30733  16.63573  17.90573     17
RPP  512   2.09360   2.41109   0.22733   5.30733  16.63573  17.90573     17
RPP  513   1.77610   2.09360   0.22733   5.30733  16.63573  17.90573     17
RPP  514   1.45860   1.77610   0.22733   5.30733  16.63573  17.90573     17
RPP  515   1.14109   1.45860   0.22733   5.30733  16.63573  17.90573     17
RPP  516   0.82359   1.14109   0.22733   5.30733  16.63573  17.90573     17
RPP  517   0.50610   0.82359   0.22733   5.30733  16.63573  17.90573     17
RPP  518   2.72859   5.26860   0.22733   5.30733  17.90573  25.52573     17
RPP  519   0.50610   2.72859   0.22733   5.30733  17.90573  25.52573     17
RPP  520   2.72859   5.26860   0.22733   5.30733  25.52573  33.14573     17
RPP  521   0.50610   2.72859   0.22733   5.30733  25.52573  33.14573     17
RPP  522   2.72859   5.26860   0.22733   5.30733  33.14573  38.22573     17
RPP  523   0.50610   2.72859   0.22733   5.30733  33.14573  38.22573     17
RPP  524   2.72859   5.26860   0.22733   5.30733  46.32198  53.94198     17
RPP  525   0.50610   2.72859   0.22733   5.30733  46.32198  53.94198     17
RPP  526   2.72859   5.26860   0.22733   5.30733  53.94198  59.02198     17
RPP  527   0.50610   2.72859   0.22733   5.30733  53.94198  59.02198     17
RPP  528   0.27750   0.50610   0.22733   5.30733  16.63573  38.22573     17
RPP  529   0.00000   5.54609   0.00000   0.10160   2.54000  22.94128     17
RPP  530   0.00000   5.54609   5.42417   5.52577   2.54000  22.94128     17
RPP  531   0.00000   0.10160   0.10160   5.42417   2.54000  22.94128     17
RPP  532   5.44449   5.54609   0.10160   5.42417   2.54000  22.94128     17
RPP  533   0.14922   5.39687   0.10160   5.34924   0.00000   0.08128     17
RPP  534   0.14922   0.23050   0.18288   5.34924   0.08128  22.94128     17
RPP  535   5.31559   5.39687   0.18288   5.34924   0.08128  22.94128     17
RPP  536   0.14922   5.39687   0.10160   0.18288   0.08128  22.94128     17
RPP  537   3.40551   3.72301   0.18288   5.26288   0.08128  22.94128     17
RPP  538   0.23050   0.54800   0.18288   5.26288   0.08128  22.94128     17
RPP  539   0.54800   0.86550   0.18288   5.26288   0.08128  22.94128     17
RPP  540   0.86550   1.18301   0.18288   5.26288   0.08128  22.94128     17
RPP  541   1.18301   1.50050   0.18288   5.26288   0.08128  22.94128     17
RPP  542   1.50050   1.81801   0.18288   5.26288   0.08128  22.94128     17
RPP  543   1.81801   2.13551   0.18288   5.26288   0.08128  22.94128     17
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RPP  544   2.13551   2.45301   0.18288   5.26288   0.08128  22.94128     17
RPP  545   2.45301   2.77051   0.18288   5.26288   0.08128  22.94128     17
RPP  546   2.77051   3.08801   0.18288   5.26288   0.08128  22.94128     17
RPP  547   3.08801   3.40551   0.18288   5.26288   0.08128  22.94128     17
RPP  548   3.72301   4.04051   0.18288   5.26288   0.08128  22.94128     17
RPP  549   4.04051   4.35801   0.18288   5.26288   0.08128  22.94128     17
RPP  550   4.35801   4.67551   0.18288   5.26288   0.08128  22.94128     17
RPP  551   4.67551   4.99301   0.18288   5.26288   0.08128  22.94128     17
RPP  552   4.99301   5.31051   0.18288   5.26288   0.08128  22.94128     17
RPP  553   0.10160   0.14922   0.10160   5.34924   2.54000  22.94128     17
RPP  554   5.39687   5.44449   0.10160   5.34924   2.54000  22.94128     17
RPP  555   0.10160   5.44449   5.34924   5.42417   0.00000  22.94128     17
RPP  556   0.23050   5.31559   5.26288   5.34924   0.08128  22.94128     17
RPP  557   5.31051   5.31559   0.18288   5.26288   0.08128  22.94128     17
RPP  558   5.39687   5.44449   0.10160   5.34924   0.00000   2.54000     17
RPP  559   0.10160   0.14922   0.10160   5.34924   0.00000   2.54000     17
RPP  560   0.00000   5.54609   0.00000   0.10160  22.94128  38.73500     17
RPP  561   0.00000   5.54609   5.42417   5.52577  22.94128  38.73500     17
RPP  562   0.00000   0.10160   0.10160   5.42417  22.94128  38.73500     17
RPP  563   5.44449   5.54609   0.10160   5.42417  22.94128  38.73500     17
RPP  564   0.14922   5.39687   0.10160   5.34924  38.65372  38.73500     17
RPP  565   0.14922   0.23050   0.18288   5.34924  22.94128  38.65372     17
RPP  566   5.31559   5.39687   0.18288   5.34924  22.94128  38.65372     17
RPP  567   0.14922   5.39687   0.10160   0.18288  22.94128  38.65372     17
RPP  568   0.23050   5.31051   0.18288   5.26288  22.94128  38.18128     17
RPP  569   0.23050   5.31051   0.18288   5.26288  38.18128  38.34003     17
RPP  570   0.10160   0.14922   0.10160   5.34924  22.94128  38.73500     17
RPP  571   5.39687   5.44449   0.10160   5.34924  22.94128  38.73500     17
RPP  572   0.10160   5.44449   5.34924   5.42417  22.94128  38.73500     17
RPP  573   0.23050   5.31559   0.18288   5.34924  38.34003  38.65372     17
RPP  574   0.23050   5.31559   5.26288   5.34924  22.94128  38.34003     17
RPP  575   5.31051   5.31559   0.18288   5.26288  22.94128  38.34003     17
RPP  576   0.00000   5.54609   0.00000   0.10160  38.73500  64.21628     17
RPP  577   0.00000   5.54609   5.42417   5.52577  38.73500  64.21628     17
RPP  578   0.00000   0.10160   0.10160   5.42417  38.73500  64.21628     17
RPP  579   5.44449   5.54609   0.10160   5.42417  38.73500  64.21628     17
RPP  580   0.14922   5.39687   0.10160   5.34924  38.73500  38.81628     17
RPP  581   0.14922   0.23050   0.18288   5.34924  38.81628  64.21628     17
RPP  582   5.31559   5.39687   0.18288   5.34924  38.81628  64.21628     17
RPP  583   0.14922   5.39687   0.10160   0.18288  38.81628  64.21628     17
RPP  584   0.23050   5.31051   0.18288   5.26288  38.81628  64.21628     17
RPP  585   0.10160   0.14922   0.10160   5.34924  38.73500  64.21628     17
RPP  586   5.39687   5.44449   0.10160   5.34924  38.73500  64.21628     17
RPP  587   0.10160   5.44449   5.34924   5.42417  38.73500  64.21628     17
RPP  588   0.23050   5.31559   5.26288   5.34924  38.81628  64.21628     17
RPP  589   5.31051   5.31559   0.18288   5.26288  38.81628  64.21628     17
RPP  590   0.00000   5.54609   0.00000   0.10160  64.21628  85.09000     17
RPP  591   0.00000   5.54609   5.42417   5.52577  64.21628  85.09000     17
RPP  592   0.00000   0.10160   0.10160   5.42417  64.21628  85.09000     17
RPP  593   5.44449   5.54609   0.10160   5.42417  64.21628  85.09000     17
RPP  594   0.14922   5.39687   0.10160   5.34924  82.46872  82.55000     17
RPP  595   0.14922   0.23050   0.18288   5.34924  64.21628  82.46872     17
RPP  596   5.31559   5.39687   0.18288   5.34924  64.21628  82.46872     17
RPP  597   0.14922   5.39687   0.10160   0.18288  64.21628  82.46872     17
RPP  598   0.23050   5.31051   0.18288   5.26288  64.21628  64.37503     17
RPP  599   0.10160   0.14922   0.10160   5.34924  64.21628  82.55000     17
RPP  600   5.39687   5.44449   0.10160   5.34924  64.21628  82.55000     17
RPP  601   0.10160   5.44449   5.34924   5.42417  64.21628  82.55000     17
RPP  602   0.23050   5.31559   0.18288   5.34924  64.37503  82.46872     17
RPP  603   0.23050   5.31559   5.26288   5.34924  64.21628  64.37503     17
RPP  604   5.31051   5.31559   0.18288   5.26288  64.21628  64.37503     17
RPP  605   0.10160   5.44449   0.10160   5.42417  82.55000  85.09000     17
RPP  606   0.00000   5.54609   0.00000   0.10160  38.73500  68.97878     17
RPP  607   0.00000   5.54609   5.42417   5.52577  38.73500  68.97878     17
RPP  608   0.00000   0.10160   0.10160   5.42417  38.73500  68.97878     17
RPP  609   5.44449   5.54609   0.10160   5.42417  38.73500  68.97878     17
RPP  610   0.14922   0.23050   0.18288   5.34924  38.81628  68.97878     17
RPP  611   5.31559   5.39687   0.18288   5.34924  38.81628  68.97878     17
RPP  612   0.14922   5.39687   0.10160   0.18288  38.81628  68.97878     17
RPP  613   0.23050   5.31051   0.18288   5.26288  38.81628  51.51628     17
RPP  614   0.23050   5.31051   0.18288   5.26288  51.51628  56.59628     17
RPP  615   0.23050   5.31051   2.72288   5.26288  61.67628  63.89878     17
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RPP  616   0.23050   2.77051   0.18288   2.72288  56.59628  68.97878     17
RPP  617   2.77051   5.31051   0.18288   2.72288  56.59628  68.97878     17
RPP  618   0.23050   5.31051   2.72288   5.26288  56.59628  61.67628     17
RPP  619   0.23050   5.31051   2.72288   5.26288  63.89878  68.97878     17
RPP  620   0.10160   0.14922   0.10160   5.34924  38.73500  68.97878     17
RPP  621   5.39687   5.44449   0.10160   5.34924  38.73500  68.97878     17
RPP  622   0.10160   5.44449   5.34924   5.42417  38.73500  68.97878     17
RPP  623   0.23050   5.31559   5.26288   5.34924  38.81628  68.97878     17
RPP  624   5.31051   5.31559   0.18288   5.26288  38.81628  61.67628     17
RPP  625   5.31051   5.31559   0.18288   2.72288  61.67628  68.97878     17
RPP  626   5.31051   5.31559   2.72288   5.26288  61.67628  68.97878     17
RPP  627   0.00000   5.54609   0.00000   0.10160  68.97878  71.83628     17
RPP  628   0.00000   5.54609   5.42417   5.52577  68.97878  71.83628     17
RPP  629   0.00000   0.10160   0.10160   2.72288  68.97878  71.83628     17
RPP  630   0.00000   0.10160   2.72288   5.42417  68.97878  71.83628     17
RPP  631   5.44449   5.54609   0.10160   2.72288  68.97878  71.83628     17
RPP  632   5.44449   5.54609   2.72288   5.42417  68.97878  71.83628     17
RPP  633   0.14922   0.23050   0.18288   2.72288  68.97878  71.83628     17
RPP  634   0.14922   0.23050   2.72288   5.34924  68.97878  71.83628     17
RPP  635   5.31559   5.39687   0.18288   2.72288  68.97878  71.83628     17
RPP  636   5.31559   5.39687   2.72288   5.34924  68.97878  71.83628     17
RPP  637   0.14922   5.39687   0.10160   0.18288  68.97878  71.83628     17
RPP  638   0.23050   2.77051   0.18288   2.72288  68.97878  71.83628     17
RPP  639   2.77051   5.31051   0.18288   2.72288  68.97878  71.83628     17
RPP  640   0.10160   0.14922   0.10160   2.72288  68.97878  71.83628     17
RPP  641   0.10160   0.14922   2.72288   5.34924  68.97878  71.83628     17
RPP  642   5.39687   5.44449   0.10160   2.72288  68.97878  71.83628     17
RPP  643   5.39687   5.44449   2.72288   5.34924  68.97878  71.83628     17
RPP  644   0.10160   5.44449   5.34924   5.42417  68.97878  71.83628     17
RPP  645   0.23050   5.31559   2.72288   5.34924  68.97878  71.83628     17
RPP  646   5.31051   5.31559   0.18288   2.72288  68.97878  71.83628     17
RPP  647   0.00000   5.54609   0.00000   0.10160  71.83628  85.09000     17
RPP  648   0.00000   5.54609   5.42417   5.52577  71.83628  85.09000     17
RPP  649   0.00000   0.10160   0.10160   5.42417  71.83628  85.09000     17
RPP  650   5.44449   5.54609   0.10160   5.42417  71.83628  85.09000     17
RPP  651   0.14922   0.23050   0.18288   5.34924  71.83628  82.46872     17
RPP  652   5.31559   5.39687   0.18288   5.34924  71.83628  82.46872     17
RPP  653   0.14922   5.39687   0.10160   0.18288  71.83628  82.46872     17
RPP  654   0.23050   5.31051   0.18288   5.26288  71.83628  71.99503     17
RPP  655   0.10160   0.14922   0.10160   5.34924  71.83628  82.55000     17
RPP  656   5.39687   5.44449   0.10160   5.34924  71.83628  82.55000     17
RPP  657   0.10160   5.44449   5.34924   5.42417  71.83628  82.55000     17
RPP  658   0.23050   5.31559   0.18288   5.34924  71.99503  82.46872     17
RPP  659   0.23050   5.31559   5.26288   5.34924  71.83628  71.99503     17
RPP  660   5.31051   5.31559   0.18288   5.26288  71.83628  71.99503     17
RPP  661   0.23050   5.31051   0.18288   2.72288  61.67628  63.89878     17
RPP  662   0.23050   2.77051   2.72288   5.26288  56.59628  68.97878     17
RPP  663   2.77051   5.31051   2.72288   5.26288  56.59628  68.97878     17
RPP  664   0.23050   5.31051   0.18288   2.72288  56.59628  61.67628     17
RPP  665   0.23050   5.31051   0.18288   2.72288  63.89878  68.97878     17
RPP  666   0.23050   2.77051   2.72288   5.26288  68.97878  71.83628     17
RPP  667   2.77051   5.31051   2.72288   5.26288  68.97878  71.83628     17
RPP  668   0.23050   5.31559   5.26288   5.34924  68.97878  71.83628     17
RPP  669   5.31051   5.31559   2.72288   5.26288  68.97878  71.83628     17
RPP  670   0.23050   5.31559   0.18288   2.72288  68.97878  71.83628     17
RPP  671   0.23050   2.77051   0.18288   5.26288  61.67628  63.89878     17
RPP  672   0.23050   2.77051   0.18288   5.26288  56.59628  61.67628     17
RPP  673   0.23050   2.77051   0.18288   5.26288  63.89878  68.97878     17
RPP  674   5.31051   5.31559   0.18288   5.26288  61.67628  63.89878     17
RPP  675   5.31051   5.31559   0.18288   5.26288  63.89878  68.97878     17
RPP  676   0.00000   2.77051   0.00000   0.10160  68.97878  71.83628     17
RPP  677   2.77051   5.54609   0.00000   0.10160  68.97878  71.83628     17
RPP  678   0.00000   2.77051   5.42417   5.52577  68.97878  71.83628     17
RPP  679   2.77051   5.54609   5.42417   5.52577  68.97878  71.83628     17
RPP  680   0.00000   0.10160   0.10160   5.42417  68.97878  71.83628     17
RPP  681   5.44449   5.54609   0.10160   5.42417  68.97878  71.83628     17
RPP  682   0.14922   0.23050   0.18288   5.34924  68.97878  71.83628     17
RPP  683   5.31559   5.39687   0.18288   5.34924  68.97878  71.83628     17
RPP  684   0.14922   2.77051   0.10160   0.18288  68.97878  71.83628     17
RPP  685   2.77051   5.39687   0.10160   0.18288  68.97878  71.83628     17
RPP  686   0.10160   0.14922   0.10160   5.34924  68.97878  71.83628     17
RPP  687   5.39687   5.44449   0.10160   5.34924  68.97878  71.83628     17
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RPP  688   0.10160   2.77051   5.34924   5.42417  68.97878  71.83628     17
RPP  689   2.77051   5.44449   5.34924   5.42417  68.97878  71.83628     17
RPP  690   0.23050   2.77051   5.26288   5.34924  68.97878  71.83628     17
RPP  691   2.77051   5.31559   5.26288   5.34924  68.97878  71.83628     17
RPP  692   0.23050   2.77051   0.18288   5.26288  68.97878  71.83628     17
RPP  693   5.31051   5.31559   0.18288   5.26288  68.97878  71.83628     17
RPP  694   2.77051   5.31051   0.18288   5.26288  61.67628  63.89878     17
RPP  695   2.77051   5.31051   0.18288   5.26288  56.59628  61.67628     17
RPP  696   2.77051   5.31051   0.18288   5.26288  63.89878  68.97878     17
RPP  697   5.31051   5.31559   0.18288   5.26288  38.81628  63.89878     17
RPP  698   2.77051   5.31559   0.18288   5.26288  68.97878  71.83628     17
RPP  699   0.00000   5.54609   0.00000   0.10160   2.54000  20.40128     17
RPP  700   0.00000   5.54609   5.42417   5.52577   2.54000  20.40128     17
RPP  701   0.00000   0.10160   0.10160   5.42417   2.54000  20.40128     17
RPP  702   5.44449   5.54609   0.10160   5.42417   2.54000  20.40128     17
RPP  703   0.14922   0.23050   0.18288   5.34924   0.08128  20.40128     17
RPP  704   5.31559   5.39687   0.18288   5.34924   0.08128  20.40128     17
RPP  705   0.14922   5.39687   0.10160   0.18288   0.08128  20.40128     17
RPP  706   3.40551   3.72301   0.18288   5.26288   0.08128  15.32128     17
RPP  707   3.40551   3.72301   0.18288   5.26288  15.32128  20.40128     17
RPP  708   0.23050   0.54800   0.18288   5.26288   0.08128  15.32128     17
RPP  709   0.23050   0.54800   0.18288   5.26288  15.32128  20.40128     17
RPP  710   0.54800   0.86550   0.18288   5.26288   0.08128  15.32128     17
RPP  711   0.54800   0.86550   0.18288   5.26288  15.32128  20.40128     17
RPP  712   0.86550   1.18301   0.18288   5.26288   0.08128  15.32128     17
RPP  713   0.86550   1.18301   0.18288   5.26288  15.32128  20.40128     17
RPP  714   1.18301   1.50050   0.18288   5.26288   0.08128  15.32128     17
RPP  715   1.18301   1.50050   0.18288   5.26288  15.32128  20.40128     17
RPP  716   1.50050   1.81801   0.18288   5.26288   0.08128  15.32128     17
RPP  717   1.50050   1.81801   0.18288   5.26288  15.32128  20.40128     17
RPP  718   1.81801   2.13551   0.18288   5.26288   0.08128  15.32128     17
RPP  719   1.81801   2.13551   0.18288   5.26288  15.32128  20.40128     17
RPP  720   2.13551   2.45301   0.18288   5.26288   0.08128  15.32128     17
RPP  721   2.13551   2.45301   0.18288   5.26288  15.32128  20.40128     17
RPP  722   2.45301   2.77051   0.18288   5.26288   0.08128  15.32128     17
RPP  723   2.45301   2.77051   0.18288   5.26288  15.32128  20.40128     17
RPP  724   2.77051   3.08801   0.18288   5.26288   0.08128  15.32128     17
RPP  725   2.77051   3.08801   0.18288   5.26288  15.32128  20.40128     17
RPP  726   3.08801   3.40551   0.18288   5.26288   0.08128  15.32128     17
RPP  727   3.08801   3.40551   0.18288   5.26288  15.32128  20.40128     17
RPP  728   3.72301   4.04051   0.18288   5.26288   0.08128  15.32128     17
RPP  729   3.72301   4.04051   0.18288   5.26288  15.32128  20.40128     17
RPP  730   4.04051   4.35801   0.18288   5.26288   0.08128  15.32128     17
RPP  731   4.04051   4.35801   0.18288   5.26288  15.32128  20.40128     17
RPP  732   4.35801   4.67551   0.18288   5.26288   0.08128  15.32128     17
RPP  733   4.35801   4.67551   0.18288   5.26288  15.32128  20.40128     17
RPP  734   4.67551   4.99301   0.18288   5.26288   0.08128  15.32128     17
RPP  735   4.67551   4.99301   0.18288   5.26288  15.32128  20.40128     17
RPP  736   4.99301   5.31051   0.18288   5.26288   0.08128  15.32128     17
RPP  737   4.99301   5.31051   0.18288   5.26288  15.32128  20.40128     17
RPP  738   0.10160   0.14922   0.10160   5.34924   2.54000  20.40128     17
RPP  739   5.39687   5.44449   0.10160   5.34924   2.54000  20.40128     17
RPP  740   0.10160   5.44449   5.34924   5.42417   0.00000  20.40128     17
RPP  741   0.23050   5.31559   5.26288   5.34924   0.08128  20.40128     17
RPP  742   5.31051   5.31559   0.18288   5.26288   0.08128  20.40128     17
RPP  743   0.00000   5.54609   0.00000   0.10160  20.40128  21.67128     17
RPP  744   0.00000   5.54609   5.42417   5.52577  20.40128  21.67128     17
RPP  745   0.00000   0.10160   0.10160   2.40538  20.40128  21.67128     17
RPP  746   0.00000   0.10160   2.40538   5.42417  20.40128  21.67128     17
RPP  747   5.44449   5.54609   0.10160   2.40538  20.40128  21.67128     17
RPP  748   5.44449   5.54609   2.40538   5.42417  20.40128  21.67128     17
RPP  749   0.14922   0.23050   0.18288   2.40538  20.40128  21.67128     17
RPP  750   0.14922   0.23050   2.40538   5.34924  20.40128  21.67128     17
RPP  751   5.31559   5.39687   0.18288   2.40538  20.40128  21.67128     17
RPP  752   5.31559   5.39687   2.40538   5.34924  20.40128  21.67128     17
RPP  753   0.14922   5.39687   0.10160   0.18288  20.40128  21.67128     17
RPP  754   0.23050   5.31051   1.13538   1.45288  20.40128  21.67128     17
RPP  755   0.23050   5.31051   1.77038   2.08788  20.40128  21.67128     17
RPP  756   0.23050   5.31051   2.40538   5.26288  20.40128  21.67128     17
RPP  757   0.23050   5.31051   0.18288   0.50038  20.40128  21.67128     17
RPP  758   0.23050   5.31051   0.50038   0.81788  20.40128  21.67128     17
RPP  759   0.23050   5.31051   0.81788   1.13538  20.40128  21.67128     17
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RPP  760   0.23050   5.31051   1.45288   1.77038  20.40128  21.67128     17
RPP  761   0.23050   5.31051   2.08788   2.40538  20.40128  21.67128     17
RPP  762   0.10160   0.14922   0.10160   2.40538  20.40128  21.67128     17
RPP  763   0.10160   0.14922   2.40538   5.34924  20.40128  21.67128     17
RPP  764   5.39687   5.44449   0.10160   2.40538  20.40128  21.67128     17
RPP  765   5.39687   5.44449   2.40538   5.34924  20.40128  21.67128     17
RPP  766   0.10160   5.44449   5.34924   5.42417  20.40128  21.67128     17
RPP  767   0.23050   5.31559   5.26288   5.34924  20.40128  21.67128     17
RPP  768   5.31051   5.31559   0.18288   2.40538  20.40128  21.67128     17
RPP  769   5.31051   5.31559   2.40538   5.26288  20.40128  21.67128     17
RPP  770   0.00000   5.54609   0.00000   0.10160  21.67128  38.73500     17
RPP  771   0.00000   5.54609   5.42417   5.52577  21.67128  38.73500     17
RPP  772   0.00000   0.10160   0.10160   5.42417  21.67128  38.73500     17
RPP  773   5.44449   5.54609   0.10160   5.42417  21.67128  38.73500     17
RPP  774   0.14922   0.23050   0.18288   5.34924  21.67128  38.65372     17
RPP  775   5.31559   5.39687   0.18288   5.34924  21.67128  38.65372     17
RPP  776   0.14922   5.39687   0.10160   0.18288  21.67128  38.65372     17
RPP  777   0.23050   5.31051   2.40538   5.26288  21.67128  22.94128     17
RPP  778   0.23050   5.31051   0.18288   0.50038  21.67128  22.94128     17
RPP  779   0.23050   5.31051   0.50038   0.81788  21.67128  22.94128     17
RPP  780   0.23050   5.31051   0.81788   1.13538  21.67128  22.94128     17
RPP  781   0.23050   5.31051   1.13538   1.45288  21.67128  22.94128     17
RPP  782   0.23050   5.31051   1.45288   1.77038  21.67128  22.94128     17
RPP  783   0.23050   5.31051   1.77038   2.08788  21.67128  22.94128     17
RPP  784   0.23050   5.31051   2.08788   2.40538  21.67128  22.94128     17
RPP  785   0.10160   0.14922   0.10160   5.34924  21.67128  38.73500     17
RPP  786   5.39687   5.44449   0.10160   5.34924  21.67128  38.73500     17
RPP  787   0.10160   5.44449   5.34924   5.42417  21.67128  38.73500     17
RPP  788   0.23050   5.31559   5.26288   5.34924  21.67128  38.34003     17
RPP  789   5.31051   5.31559   0.18288   5.26288  21.67128  22.94128     17
RPP  790   0.23050   5.31051   0.18288   5.26288  61.67628  63.89878     17
RPP  791   5.31051   5.31559   0.18288   5.26288  38.81628  68.97878     17
RPP  792   0.00000   5.54609   0.00000   0.10160  68.97878  85.09000     17
RPP  793   0.00000   5.54609   5.42417   5.52577  68.97878  85.09000     17
RPP  794   0.00000   0.10160   0.10160   5.42417  68.97878  85.09000     17
RPP  795   5.44449   5.54609   0.10160   5.42417  68.97878  85.09000     17
RPP  796   0.14922   0.23050   0.18288   5.34924  68.97878  82.46872     17
RPP  797   5.31559   5.39687   0.18288   5.34924  68.97878  82.46872     17
RPP  798   0.14922   5.39687   0.10160   0.18288  68.97878  82.46872     17
RPP  799   0.23050   5.31051   0.18288   5.26288  68.97878  69.13753     17
RPP  800   0.10160   0.14922   0.10160   5.34924  68.97878  82.55000     17
RPP  801   5.39687   5.44449   0.10160   5.34924  68.97878  82.55000     17
RPP  802   0.10160   5.44449   5.34924   5.42417  68.97878  82.55000     17
RPP  803   0.23050   5.31559   5.26288   5.34924  68.97878  69.13753     17
RPP  804   5.31051   5.31559   0.18288   5.26288  68.97878  69.13753     17
RPP  805   0.23050   5.31559   0.18288   5.34924  69.13753  82.46872     17
RPP  806   0.00000   0.10160   0.10160   2.72288  20.40128  21.67128     17
RPP  807   0.00000   0.10160   2.72288   5.42417  20.40128  21.67128     17
RPP  808   5.44449   5.54609   0.10160   2.72288  20.40128  21.67128     17
RPP  809   5.44449   5.54609   2.72288   5.42417  20.40128  21.67128     17
RPP  810   0.14922   0.23050   0.18288   2.72288  20.40128  21.67128     17
RPP  811   0.14922   0.23050   2.72288   5.34924  20.40128  21.67128     17
RPP  812   5.31559   5.39687   0.18288   2.72288  20.40128  21.67128     17
RPP  813   5.31559   5.39687   2.72288   5.34924  20.40128  21.67128     17
RPP  814   0.23050   5.31051   2.72288   5.26288  20.40128  21.67128     17
RPP  815   0.23050   5.31051   2.40538   2.72288  20.40128  21.67128     17
RPP  816   0.10160   0.14922   0.10160   2.72288  20.40128  21.67128     17
RPP  817   0.10160   0.14922   2.72288   5.34924  20.40128  21.67128     17
RPP  818   5.39687   5.44449   0.10160   2.72288  20.40128  21.67128     17
RPP  819   5.39687   5.44449   2.72288   5.34924  20.40128  21.67128     17
RPP  820   5.31051   5.31559   2.72288   5.26288  20.40128  21.67128     17
RPP  821   5.31051   5.31559   0.18288   2.72288  20.40128  21.67128     17
RPP  822   0.23050   5.31051   2.72288   5.26288  21.67128  22.94128     17
RPP  823   0.23050   5.31051   2.40538   2.72288  21.67128  22.94128     17
RPP  824   5.31051   5.31559   0.18288   2.72288  21.67128  22.94128     17
RPP  825   5.31051   5.31559   2.72288   5.26288  21.67128  22.94128     17
RPP  826   0.00000   0.10160   0.10160   3.04038  20.40128  21.67128     17
RPP  827   0.00000   0.10160   3.04038   5.42417  20.40128  21.67128     17
RPP  828   5.44449   5.54609   0.10160   3.04038  20.40128  21.67128     17
RPP  829   5.44449   5.54609   3.04038   5.42417  20.40128  21.67128     17
RPP  830   0.14922   0.23050   0.18288   3.04038  20.40128  21.67128     17
RPP  831   0.14922   0.23050   3.04038   5.34924  20.40128  21.67128     17
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RPP  832   5.31559   5.39687   0.18288   3.04038  20.40128  21.67128     17
RPP  833   5.31559   5.39687   3.04038   5.34924  20.40128  21.67128     17
RPP  834   0.23050   5.31051   0.18288   3.04038  20.40128  21.67128     17
RPP  835   0.23050   5.31051   3.35788   3.67538  20.40128  21.67128     17
RPP  836   0.23050   5.31051   3.99288   4.31038  20.40128  21.67128     17
RPP  837   0.23050   5.31051   3.04038   3.35788  20.40128  21.67128     17
RPP  838   0.23050   5.31051   3.67538   3.99288  20.40128  21.67128     17
RPP  839   0.23050   5.31051   4.31038   4.62788  20.40128  21.67128     17
RPP  840   0.23050   5.31051   4.62788   4.94538  20.40128  21.67128     17
RPP  841   0.23050   5.31051   4.94538   5.26288  20.40128  21.67128     17
RPP  842   0.10160   0.14922   0.10160   3.04038  20.40128  21.67128     17
RPP  843   0.10160   0.14922   3.04038   5.34924  20.40128  21.67128     17
RPP  844   5.39687   5.44449   0.10160   3.04038  20.40128  21.67128     17
RPP  845   5.39687   5.44449   3.04038   5.34924  20.40128  21.67128     17
RPP  846   5.31051   5.31559   0.18288   3.04038  20.40128  21.67128     17
RPP  847   5.31051   5.31559   3.04038   5.26288  20.40128  21.67128     17
RPP  848   0.23050   5.31051   0.18288   3.04038  21.67128  22.94128     17
RPP  849   0.23050   5.31051   3.04038   3.35788  21.67128  22.94128     17
RPP  850   0.23050   5.31051   3.35788   3.67538  21.67128  22.94128     17
RPP  851   0.23050   5.31051   3.67538   3.99288  21.67128  22.94128     17
RPP  852   0.23050   5.31051   3.99288   4.31038  21.67128  22.94128     17
RPP  853   0.23050   5.31051   4.31038   4.62788  21.67128  22.94128     17
RPP  854   0.23050   5.31051   4.62788   4.94538  21.67128  22.94128     17
RPP  855   0.23050   5.31051   4.94538   5.26288  21.67128  22.94128     17
RPP  856   5.31051   5.31559   3.04038   5.26288  21.67128  22.94128     17
RPP  857   5.31051   5.31559   0.18288   3.04038  21.67128  22.94128     17
RPP  858   0.23050   5.31051   0.18288   2.72288  20.40128  21.67128     17
RPP  859   0.23050   5.31051   2.72288   3.04038  20.40128  21.67128     17
RPP  860   0.23050   5.31051   0.18288   2.72288  21.67128  22.94128     17
RPP  861   0.23050   5.31051   2.72288   3.04038  21.67128  22.94128     17
RPP  862   3.40551   3.72301   0.18288   5.26288   7.70128  12.78128     17
RPP  863   0.23050   0.54800   0.18288   5.26288   0.08128   7.70128     17
RPP  864   0.23050   0.54800   0.18288   5.26288   7.70128  12.78128     17
RPP  865   0.23050   0.54800   0.18288   5.26288  12.78128  20.40128     17
RPP  866   0.54800   0.86550   0.18288   5.26288   0.08128   7.70128     17
RPP  867   0.54800   0.86550   0.18288   5.26288   7.70128  12.78128     17
RPP  868   0.54800   0.86550   0.18288   5.26288  12.78128  20.40128     17
RPP  869   0.86550   1.18301   0.18288   5.26288   0.08128   7.70128     17
RPP  870   0.86550   1.18301   0.18288   5.26288   7.70128  12.78128     17
RPP  871   0.86550   1.18301   0.18288   5.26288  12.78128  20.40128     17
RPP  872   1.18301   1.50050   0.18288   5.26288   0.08128   7.70128     17
RPP  873   1.18301   1.50050   0.18288   5.26288   7.70128  12.78128     17
RPP  874   1.18301   1.50050   0.18288   5.26288  12.78128  20.40128     17
RPP  875   1.50050   1.81801   0.18288   5.26288   0.08128   7.70128     17
RPP  876   1.50050   1.81801   0.18288   5.26288   7.70128  12.78128     17
RPP  877   1.50050   1.81801   0.18288   5.26288  12.78128  20.40128     17
RPP  878   1.81801   2.13551   0.18288   5.26288   0.08128   7.70128     17
RPP  879   1.81801   2.13551   0.18288   5.26288   7.70128  12.78128     17
RPP  880   1.81801   2.13551   0.18288   5.26288  12.78128  20.40128     17
RPP  881   2.13551   2.45301   0.18288   5.26288   0.08128   7.70128     17
RPP  882   2.13551   2.45301   0.18288   5.26288   7.70128  12.78128     17
RPP  883   2.13551   2.45301   0.18288   5.26288  12.78128  20.40128     17
RPP  884   2.45301   2.77051   0.18288   5.26288   0.08128   7.70128     17
RPP  885   2.45301   2.77051   0.18288   5.26288   7.70128  12.78128     17
RPP  886   2.45301   2.77051   0.18288   5.26288  12.78128  20.40128     17
RPP  887   2.77051   3.08801   0.18288   5.26288   0.08128   7.70128     17
RPP  888   2.77051   3.08801   0.18288   5.26288   7.70128  12.78128     17
RPP  889   2.77051   3.08801   0.18288   5.26288  12.78128  20.40128     17
RPP  890   3.08801   3.40551   0.18288   5.26288   0.08128   7.70128     17
RPP  891   3.08801   3.40551   0.18288   5.26288   7.70128  12.78128     17
RPP  892   3.08801   3.40551   0.18288   5.26288  12.78128  20.40128     17
RPP  893   3.40551   3.72301   0.18288   5.26288   0.08128   7.70128     17
RPP  894   3.40551   3.72301   0.18288   5.26288  12.78128  20.40128     17
RPP  895   3.72301   4.04051   0.18288   5.26288   0.08128   7.70128     17
RPP  896   3.72301   4.04051   0.18288   5.26288   7.70128  12.78128     17
RPP  897   3.72301   4.04051   0.18288   5.26288  12.78128  20.40128     17
RPP  898   4.04051   4.35801   0.18288   5.26288   0.08128   7.70128     17
RPP  899   4.04051   4.35801   0.18288   5.26288   7.70128  12.78128     17
RPP  900   4.04051   4.35801   0.18288   5.26288  12.78128  20.40128     17
RPP  901   4.35801   4.67551   0.18288   5.26288   0.08128   7.70128     17
RPP  902   4.35801   4.67551   0.18288   5.26288   7.70128  12.78128     17
RPP  903   4.35801   4.67551   0.18288   5.26288  12.78128  20.40128     17
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RPP  904   4.67551   4.99301   0.18288   5.26288   0.08128   7.70128     17
RPP  905   4.67551   4.99301   0.18288   5.26288   7.70128  12.78128     17
RPP  906   4.67551   4.99301   0.18288   5.26288  12.78128  20.40128     17
RPP  907   4.99301   5.31051   0.18288   5.26288   0.08128   7.70128     17
RPP  908   4.99301   5.31051   0.18288   5.26288   7.70128  12.78128     17
RPP  909   4.99301   5.31051   0.18288   5.26288  12.78128  20.40128     17
RPP  910   0.00000   5.54609   0.00000   0.10160  20.40128  38.73500     17
RPP  911   0.00000   5.54609   5.42417   5.52577  20.40128  38.73500     17
RPP  912   0.00000   0.10160   0.10160   5.42417  20.40128  38.73500     17
RPP  913   5.44449   5.54609   0.10160   5.42417  20.40128  38.73500     17
RPP  914   0.14922   0.23050   0.18288   5.34924  20.40128  38.65372     17
RPP  915   5.31559   5.39687   0.18288   5.34924  20.40128  38.65372     17
RPP  916   0.14922   5.39687   0.10160   0.18288  20.40128  38.65372     17
RPP  917   0.23050   5.31051   0.18288   5.26288  20.40128  33.10128     17
RPP  918   0.23050   5.31051   0.18288   5.26288  33.10128  38.18128     17
RPP  919   0.10160   0.14922   0.10160   5.34924  20.40128  38.73500     17
RPP  920   5.39687   5.44449   0.10160   5.34924  20.40128  38.73500     17
RPP  921   0.10160   5.44449   5.34924   5.42417  20.40128  38.73500     17
RPP  922   0.23050   5.31559   5.26288   5.34924  20.40128  38.34003     17
RPP  923   5.31051   5.31559   0.18288   5.26288  20.40128  38.34003     17
RPP  924   0.00000   5.54609   0.00000   0.10160  38.73500  68.02628     17
RPP  925   0.00000   5.54609   5.42417   5.52577  38.73500  68.02628     17
RPP  926   0.00000   0.10160   0.10160   5.42417  38.73500  68.02628     17
RPP  927   5.44449   5.54609   0.10160   5.42417  38.73500  68.02628     17
RPP  928   0.14922   0.23050   0.18288   5.34924  38.81628  68.02628     17
RPP  929   5.31559   5.39687   0.18288   5.34924  38.81628  68.02628     17
RPP  930   0.14922   5.39687   0.10160   0.18288  38.81628  68.02628     17
RPP  931   0.23050   5.31051   0.18288   5.26288  56.59628  57.86628     17
RPP  932   2.77051   5.31051   0.18288   5.26288  57.86628  58.50128     17
RPP  933   0.23050   2.77051   0.18288   2.72288  57.86628  68.02628     17
RPP  934   0.23050   2.77051   2.72288   5.26288  57.86628  68.02628     17
RPP  935   2.77051   5.31051   0.18288   2.72288  58.50128  68.02628     17
RPP  936   2.77051   5.31051   2.72288   5.26288  58.50128  68.02628     17
RPP  937   0.10160   0.14922   0.10160   5.34924  38.73500  68.02628     17
RPP  938   5.39687   5.44449   0.10160   5.34924  38.73500  68.02628     17
RPP  939   0.10160   5.44449   5.34924   5.42417  38.73500  68.02628     17
RPP  940   0.23050   5.31559   5.26288   5.34924  38.81628  68.02628     17
RPP  941   5.31051   5.31559   0.18288   5.26288  38.81628  68.02628     17
RPP  942   0.00000   2.77051   0.00000   0.10160  68.02628  68.66128     17
RPP  943   2.77051   5.54609   0.00000   0.10160  68.02628  68.66128     17
RPP  944   0.00000   2.77051   5.42417   5.52577  68.02628  68.66128     17
RPP  945   2.77051   5.54609   5.42417   5.52577  68.02628  68.66128     17
RPP  946   0.00000   0.10160   0.10160   5.42417  68.02628  68.66128     17
RPP  947   5.44449   5.54609   0.10160   5.42417  68.02628  68.66128     17
RPP  948   0.14922   0.23050   0.18288   5.34924  68.02628  68.66128     17
RPP  949   5.31559   5.39687   0.18288   5.34924  68.02628  68.66128     17
RPP  950   0.14922   2.77051   0.10160   0.18288  68.02628  68.66128     17
RPP  951   2.77051   5.39687   0.10160   0.18288  68.02628  68.66128     17
RPP  952   2.77051   5.31051   0.18288   2.72288  68.02628  68.66128     17
RPP  953   2.77051   5.31051   2.72288   5.26288  68.02628  68.66128     17
RPP  954   0.10160   0.14922   0.10160   5.34924  68.02628  68.66128     17
RPP  955   5.39687   5.44449   0.10160   5.34924  68.02628  68.66128     17
RPP  956   0.10160   2.77051   5.34924   5.42417  68.02628  68.66128     17
RPP  957   2.77051   5.44449   5.34924   5.42417  68.02628  68.66128     17
RPP  958   0.23050   2.77051   5.26288   5.34924  68.02628  68.66128     17
RPP  959   2.77051   5.31559   5.26288   5.34924  68.02628  68.66128     17
RPP  960   0.23050   2.77051   0.18288   5.26288  68.02628  68.66128     17
RPP  961   5.31051   5.31559   0.18288   5.26288  68.02628  68.66128     17
RPP  962   0.00000   5.54609   0.00000   0.10160  68.66128  85.09000     17
RPP  963   0.00000   5.54609   5.42417   5.52577  68.66128  85.09000     17
RPP  964   0.00000   0.10160   0.10160   5.42417  68.66128  85.09000     17
RPP  965   5.44449   5.54609   0.10160   5.42417  68.66128  85.09000     17
RPP  966   0.14922   0.23050   0.18288   5.34924  68.66128  82.46872     17
RPP  967   5.31559   5.39687   0.18288   5.34924  68.66128  82.46872     17
RPP  968   0.14922   5.39687   0.10160   0.18288  68.66128  82.46872     17
RPP  969   0.23050   5.31051   0.18288   5.26288  68.66128  68.82003     17
RPP  970   0.10160   0.14922   0.10160   5.34924  68.66128  82.55000     17
RPP  971   5.39687   5.44449   0.10160   5.34924  68.66128  82.55000     17
RPP  972   0.10160   5.44449   5.34924   5.42417  68.66128  82.55000     17
RPP  973   0.23050   5.31559   0.18288   5.34924  68.82003  82.46872     17
RPP  974   0.23050   5.31559   5.26288   5.34924  68.66128  68.82003     17
RPP  975   5.31051   5.31559   0.18288   5.26288  68.66128  68.82003     17
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RPP  976   0.23050   2.77051   0.18288   5.26288  57.86628  58.50128     17
RPP  977   0.23050   2.77051   0.18288   2.72288  58.50128  68.02628     17
RPP  978   0.23050   2.77051   2.72288   5.26288  58.50128  68.02628     17
RPP  979   2.77051   5.31051   0.18288   2.72288  57.86628  68.02628     17
RPP  980   2.77051   5.31051   2.72288   5.26288  57.86628  68.02628     17
RPP  981   5.31051   5.31559   0.18288   5.26288  58.50128  68.02628     17
RPP  982   5.31051   5.31559   0.18288   5.26288  38.81628  58.50128     17
RPP  983   0.23050   2.77051   0.18288   2.72288  68.02628  68.66128     17
RPP  984   0.23050   2.77051   2.72288   5.26288  68.02628  68.66128     17
RPP  985   2.77051   5.31559   0.18288   5.26288  68.02628  68.66128     17
RPP  986   0.23050   5.31051   0.18288   2.72288  57.86628  58.50128     17
RPP  987   5.31051   5.31559   0.18288   2.72288  57.86628  68.02628     17
RPP  988   5.31051   5.31559   2.72288   5.26288  57.86628  68.02628     17
RPP  989   5.31051   5.31559   0.18288   5.26288  38.81628  57.86628     17
RPP  990   0.00000   5.54609   0.00000   0.10160  68.02628  68.66128     17
RPP  991   0.00000   5.54609   5.42417   5.52577  68.02628  68.66128     17
RPP  992   0.00000   0.10160   0.10160   2.72288  68.02628  68.66128     17
RPP  993   0.00000   0.10160   2.72288   5.42417  68.02628  68.66128     17
RPP  994   5.44449   5.54609   0.10160   2.72288  68.02628  68.66128     17
RPP  995   5.44449   5.54609   2.72288   5.42417  68.02628  68.66128     17
RPP  996   0.14922   0.23050   0.18288   2.72288  68.02628  68.66128     17
RPP  997   0.14922   0.23050   2.72288   5.34924  68.02628  68.66128     17
RPP  998   5.31559   5.39687   0.18288   2.72288  68.02628  68.66128     17
RPP  999   5.31559   5.39687   2.72288   5.34924  68.02628  68.66128     17
RPP 1000   0.14922   5.39687   0.10160   0.18288  68.02628  68.66128     17
RPP 1001   0.10160   0.14922   0.10160   2.72288  68.02628  68.66128     17
RPP 1002   0.10160   0.14922   2.72288   5.34924  68.02628  68.66128     17
RPP 1003   5.39687   5.44449   0.10160   2.72288  68.02628  68.66128     17
RPP 1004   5.39687   5.44449   2.72288   5.34924  68.02628  68.66128     17
RPP 1005   0.10160   5.44449   5.34924   5.42417  68.02628  68.66128     17
RPP 1006   0.23050   5.31559   2.72288   5.34924  68.02628  68.66128     17
RPP 1007   5.31051   5.31559   0.18288   2.72288  68.02628  68.66128     17
RPP 1008   0.23050   5.31051   2.72288   5.26288  57.86628  58.50128     17
RPP 1009   0.23050   5.31559   5.26288   5.34924  68.02628  68.66128     17
RPP 1010   0.23050   5.31559   0.18288   2.72288  68.02628  68.66128     17
RPP 1011   5.31051   5.31559   2.72288   5.26288  68.02628  68.66128     17
RPP 1012   0.00000   5.54609   0.00000   0.10160   2.54000  17.86128     17
RPP 1013   0.00000   5.54609   5.42417   5.52577   2.54000  17.86128     17
RPP 1014   0.00000   0.10160   0.10160   5.42417   2.54000  17.86128     17
RPP 1015   5.44449   5.54609   0.10160   5.42417   2.54000  17.86128     17
RPP 1016   0.14922   0.23050   0.18288   5.34924   0.08128  17.86128     17
RPP 1017   5.31559   5.39687   0.18288   5.34924   0.08128  17.86128     17
RPP 1018   0.14922   5.39687   0.10160   0.18288   0.08128  17.86128     17
RPP 1019   3.40551   3.72301   0.18288   5.26288   7.70128  17.86128     17
RPP 1020   0.23050   0.54800   0.18288   5.26288   7.70128  17.86128     17
RPP 1021   0.54800   0.86550   0.18288   5.26288   7.70128  17.86128     17
RPP 1022   0.86550   1.18301   0.18288   5.26288   7.70128  17.86128     17
RPP 1023   1.18301   1.50050   0.18288   5.26288   7.70128  17.86128     17
RPP 1024   1.50050   1.81801   0.18288   5.26288   7.70128  17.86128     17
RPP 1025   1.81801   2.13551   0.18288   5.26288   7.70128  17.86128     17
RPP 1026   2.13551   2.45301   0.18288   5.26288   7.70128  17.86128     17
RPP 1027   2.45301   2.77051   0.18288   5.26288   7.70128  17.86128     17
RPP 1028   2.77051   3.08801   0.18288   5.26288   7.70128  17.86128     17
RPP 1029   3.08801   3.40551   0.18288   5.26288   7.70128  17.86128     17
RPP 1030   3.72301   4.04051   0.18288   5.26288   7.70128  17.86128     17
RPP 1031   4.04051   4.35801   0.18288   5.26288   7.70128  17.86128     17
RPP 1032   4.35801   4.67551   0.18288   5.26288   7.70128  17.86128     17
RPP 1033   4.67551   4.99301   0.18288   5.26288   7.70128  17.86128     17
RPP 1034   4.99301   5.31051   0.18288   5.26288   7.70128  17.86128     17
RPP 1035   0.10160   0.14922   0.10160   5.34924   2.54000  17.86128     17
RPP 1036   5.39687   5.44449   0.10160   5.34924   2.54000  17.86128     17
RPP 1037   0.10160   5.44449   5.34924   5.42417   0.00000  17.86128     17
RPP 1038   0.23050   5.31559   5.26288   5.34924   0.08128  17.86128     17
RPP 1039   5.31051   5.31559   0.18288   5.26288   0.08128  17.86128     17
RPP 1040   0.00000   5.54609   0.00000   0.10160  17.86128  20.40128     17
RPP 1041   0.00000   5.54609   5.42417   5.52577  17.86128  20.40128     17
RPP 1042   0.00000   0.10160   0.10160   3.67538  17.86128  20.40128     17
RPP 1043   0.00000   0.10160   3.67538   5.42417  17.86128  20.40128     17
RPP 1044   5.44449   5.54609   0.10160   3.67538  17.86128  20.40128     17
RPP 1045   5.44449   5.54609   3.67538   5.42417  17.86128  20.40128     17
RPP 1046   0.14922   0.23050   0.18288   3.67538  17.86128  20.40128     17
RPP 1047   0.14922   0.23050   3.67538   5.34924  17.86128  20.40128     17
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RPP 1048   5.31559   5.39687   0.18288   3.67538  17.86128  20.40128     17
RPP 1049   5.31559   5.39687   3.67538   5.34924  17.86128  20.40128     17
RPP 1050   0.14922   5.39687   0.10160   0.18288  17.86128  20.40128     17
RPP 1051   0.23050   5.31051   1.77038   2.08788  17.86128  20.40128     17
RPP 1052   0.23050   5.31051   0.18288   0.50038  17.86128  20.40128     17
RPP 1053   0.23050   5.31051   0.50038   0.81788  17.86128  20.40128     17
RPP 1054   0.23050   5.31051   0.81788   1.13538  17.86128  20.40128     17
RPP 1055   0.23050   5.31051   1.13538   1.45288  17.86128  20.40128     17
RPP 1056   0.23050   5.31051   1.45288   1.77038  17.86128  20.40128     17
RPP 1057   0.23050   5.31051   2.08788   2.40538  17.86128  20.40128     17
RPP 1058   0.23050   5.31051   2.40538   2.72288  17.86128  20.40128     17
RPP 1059   0.23050   5.31051   2.72288   3.04038  17.86128  20.40128     17
RPP 1060   0.23050   5.31051   3.04038   3.35788  17.86128  20.40128     17
RPP 1061   0.23050   5.31051   3.35788   3.67538  17.86128  20.40128     17
RPP 1062   0.23050   5.31051   3.67538   5.26288  17.86128  20.40128     17
RPP 1063   0.10160   0.14922   0.10160   3.67538  17.86128  20.40128     17
RPP 1064   0.10160   0.14922   3.67538   5.34924  17.86128  20.40128     17
RPP 1065   5.39687   5.44449   0.10160   3.67538  17.86128  20.40128     17
RPP 1066   5.39687   5.44449   3.67538   5.34924  17.86128  20.40128     17
RPP 1067   0.10160   5.44449   5.34924   5.42417  17.86128  20.40128     17
RPP 1068   0.23050   5.31559   5.26288   5.34924  17.86128  20.40128     17
RPP 1069   5.31051   5.31559   0.18288   3.67538  17.86128  20.40128     17
RPP 1070   5.31051   5.31559   3.67538   5.26288  17.86128  20.40128     17
RPP 1071   0.00000   5.54609   0.00000   0.10160  38.73500  67.70878     17
RPP 1072   0.00000   5.54609   5.42417   5.52577  38.73500  67.70878     17
RPP 1073   0.00000   0.10160   0.10160   5.42417  38.73500  67.70878     17
RPP 1074   5.44449   5.54609   0.10160   5.42417  38.73500  67.70878     17
RPP 1075   0.14922   0.23050   0.18288   5.34924  38.81628  67.70878     17
RPP 1076   5.31559   5.39687   0.18288   5.34924  38.81628  67.70878     17
RPP 1077   0.14922   5.39687   0.10160   0.18288  38.81628  67.70878     17
RPP 1078   0.23050   5.31051   0.18288   5.26288  56.59628  57.54878     17
RPP 1079   0.23050   5.31051   0.18288   2.72288  57.54878  58.18378     17
RPP 1080   0.23050   2.77051   2.72288   5.26288  57.54878  67.70878     17
RPP 1081   2.77051   5.31051   2.72288   5.26288  57.54878  67.70878     17
RPP 1082   0.23050   2.77051   0.18288   2.72288  58.18378  67.70878     17
RPP 1083   2.77051   5.31051   0.18288   2.72288  58.18378  67.70878     17
RPP 1084   0.10160   0.14922   0.10160   5.34924  38.73500  67.70878     17
RPP 1085   5.39687   5.44449   0.10160   5.34924  38.73500  67.70878     17
RPP 1086   0.10160   5.44449   5.34924   5.42417  38.73500  67.70878     17
RPP 1087   5.31051   5.31559   0.18288   2.72288  57.54878  67.70878     17
RPP 1088   0.23050   5.31559   5.26288   5.34924  38.81628  67.70878     17
RPP 1089   5.31051   5.31559   2.72288   5.26288  57.54878  67.70878     17
RPP 1090   5.31051   5.31559   0.18288   5.26288  38.81628  57.54878     17
RPP 1091   0.00000   5.54609   0.00000   0.10160  67.70878  68.34378     17
RPP 1092   0.00000   5.54609   5.42417   5.52577  67.70878  68.34378     17
RPP 1093   0.00000   0.10160   0.10160   2.72288  67.70878  68.34378     17
RPP 1094   0.00000   0.10160   2.72288   5.42417  67.70878  68.34378     17
RPP 1095   5.44449   5.54609   0.10160   2.72288  67.70878  68.34378     17
RPP 1096   5.44449   5.54609   2.72288   5.42417  67.70878  68.34378     17
RPP 1097   0.14922   0.23050   0.18288   2.72288  67.70878  68.34378     17
RPP 1098   0.14922   0.23050   2.72288   5.34924  67.70878  68.34378     17
RPP 1099   5.31559   5.39687   0.18288   2.72288  67.70878  68.34378     17
RPP 1100   5.31559   5.39687   2.72288   5.34924  67.70878  68.34378     17
RPP 1101   0.14922   5.39687   0.10160   0.18288  67.70878  68.34378     17
RPP 1102   0.23050   2.77051   0.18288   2.72288  67.70878  68.34378     17
RPP 1103   2.77051   5.31051   0.18288   2.72288  67.70878  68.34378     17
RPP 1104   0.10160   0.14922   0.10160   2.72288  67.70878  68.34378     17
RPP 1105   0.10160   0.14922   2.72288   5.34924  67.70878  68.34378     17
RPP 1106   5.39687   5.44449   0.10160   2.72288  67.70878  68.34378     17
RPP 1107   5.39687   5.44449   2.72288   5.34924  67.70878  68.34378     17
RPP 1108   0.10160   5.44449   5.34924   5.42417  67.70878  68.34378     17
RPP 1109   0.23050   5.31559   2.72288   5.34924  67.70878  68.34378     17
RPP 1110   5.31051   5.31559   0.18288   2.72288  67.70878  68.34378     17
RPP 1111   0.00000   5.54609   0.00000   0.10160  68.34378  85.09000     17
RPP 1112   0.00000   5.54609   5.42417   5.52577  68.34378  85.09000     17
RPP 1113   0.00000   0.10160   0.10160   5.42417  68.34378  85.09000     17
RPP 1114   5.44449   5.54609   0.10160   5.42417  68.34378  85.09000     17
RPP 1115   0.14922   0.23050   0.18288   5.34924  68.34378  82.46872     17
RPP 1116   5.31559   5.39687   0.18288   5.34924  68.34378  82.46872     17
RPP 1117   0.14922   5.39687   0.10160   0.18288  68.34378  82.46872     17
RPP 1118   0.23050   5.31051   0.18288   5.26288  68.34378  68.50253     17
RPP 1119   0.10160   0.14922   0.10160   5.34924  68.34378  82.55000     17
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RPP 1120   5.39687   5.44449   0.10160   5.34924  68.34378  82.55000     17
RPP 1121   0.10160   5.44449   5.34924   5.42417  68.34378  82.55000     17
RPP 1122   0.23050   5.31559   0.18288   5.34924  68.50253  82.46872     17
RPP 1123   0.23050   5.31559   5.26288   5.34924  68.34378  68.50253     17
RPP 1124   5.31051   5.31559   0.18288   5.26288  68.34378  68.50253     17
RPP 1125   0.00000   0.10160   0.10160   2.08788  17.86128  20.40128     17
RPP 1126   0.00000   0.10160   2.08788   5.42417  17.86128  20.40128     17
RPP 1127   5.44449   5.54609   0.10160   2.08788  17.86128  20.40128     17
RPP 1128   5.44449   5.54609   2.08788   5.42417  17.86128  20.40128     17
RPP 1129   0.14922   0.23050   0.18288   2.08788  17.86128  20.40128     17
RPP 1130   0.14922   0.23050   2.08788   5.34924  17.86128  20.40128     17
RPP 1131   5.31559   5.39687   0.18288   2.08788  17.86128  20.40128     17
RPP 1132   5.31559   5.39687   2.08788   5.34924  17.86128  20.40128     17
RPP 1133   0.23050   5.31051   0.18288   2.08788  17.86128  20.40128     17
RPP 1134   0.23050   5.31051   3.67538   3.99288  17.86128  20.40128     17
RPP 1135   0.23050   5.31051   3.99288   4.31038  17.86128  20.40128     17
RPP 1136   0.23050   5.31051   4.31038   4.62788  17.86128  20.40128     17
RPP 1137   0.23050   5.31051   4.62788   4.94538  17.86128  20.40128     17
RPP 1138   0.23050   5.31051   4.94538   5.26288  17.86128  20.40128     17
RPP 1139   0.10160   0.14922   0.10160   2.08788  17.86128  20.40128     17
RPP 1140   0.10160   0.14922   2.08788   5.34924  17.86128  20.40128     17
RPP 1141   5.39687   5.44449   0.10160   2.08788  17.86128  20.40128     17
RPP 1142   5.39687   5.44449   2.08788   5.34924  17.86128  20.40128     17
RPP 1143   5.31051   5.31559   0.18288   2.08788  17.86128  20.40128     17
RPP 1144   5.31051   5.31559   2.08788   5.26288  17.86128  20.40128     17
RPP 1145   0.23050   5.31051   2.72288   5.26288  57.54878  58.18378     17
RPP 1146   0.23050   2.77051   0.18288   2.72288  57.54878  67.70878     17
RPP 1147   2.77051   5.31051   0.18288   2.72288  57.54878  67.70878     17
RPP 1148   0.23050   2.77051   2.72288   5.26288  58.18378  67.70878     17
RPP 1149   2.77051   5.31051   2.72288   5.26288  58.18378  67.70878     17
RPP 1150   0.23050   2.77051   2.72288   5.26288  67.70878  68.34378     17
RPP 1151   2.77051   5.31051   2.72288   5.26288  67.70878  68.34378     17
RPP 1152   0.23050   5.31559   5.26288   5.34924  67.70878  68.34378     17
RPP 1153   0.23050   5.31559   0.18288   2.72288  67.70878  68.34378     17
RPP 1154   5.31051   5.31559   2.72288   5.26288  67.70878  68.34378     17
RPP 1155   1.81801   2.13551   0.18288   5.26288  12.78128  17.86128     17
RPP 1156   2.13551   2.45301   0.18288   5.26288  12.78128  17.86128     17
RPP 1157   2.45301   2.77051   0.18288   5.26288  12.78128  17.86128     17
RPP 1158   2.77051   3.08801   0.18288   5.26288  12.78128  17.86128     17
RPP 1159   3.08801   3.40551   0.18288   5.26288  12.78128  17.86128     17
RPP 1160   3.40551   3.72301   0.18288   5.26288  12.78128  17.86128     17
RPP 1161   3.72301   4.04051   0.18288   5.26288  12.78128  17.86128     17
RPP 1162   4.04051   4.35801   0.18288   5.26288  12.78128  17.86128     17
RPP 1163   4.35801   4.67551   0.18288   5.26288  12.78128  17.86128     17
RPP 1164   4.67551   4.99301   0.18288   5.26288  12.78128  17.86128     17
RPP 1165   4.99301   5.31051   0.18288   5.26288  12.78128  17.86128     17
RPP 1166   0.00000   1.81801   0.00000   0.10160  17.86128  20.40128     17
RPP 1167   1.81801   5.54609   0.00000   0.10160  17.86128  20.40128     17
RPP 1168   0.00000   1.81801   5.42417   5.52577  17.86128  20.40128     17
RPP 1169   1.81801   5.54609   5.42417   5.52577  17.86128  20.40128     17
RPP 1170   0.00000   0.10160   0.10160   5.42417  17.86128  20.40128     17
RPP 1171   5.44449   5.54609   0.10160   5.42417  17.86128  20.40128     17
RPP 1172   0.14922   0.23050   0.18288   5.34924  17.86128  20.40128     17
RPP 1173   5.31559   5.39687   0.18288   5.34924  17.86128  20.40128     17
RPP 1174   0.14922   1.81801   0.10160   0.18288  17.86128  20.40128     17
RPP 1175   1.81801   5.39687   0.10160   0.18288  17.86128  20.40128     17
RPP 1176   0.23050   1.81801   0.18288   5.26288  17.86128  20.40128     17
RPP 1177   1.81801   2.13551   0.18288   5.26288  17.86128  20.40128     17
RPP 1178   2.13551   2.45301   0.18288   5.26288  17.86128  20.40128     17
RPP 1179   2.45301   2.77051   0.18288   5.26288  17.86128  20.40128     17
RPP 1180   2.77051   3.08801   0.18288   5.26288  17.86128  20.40128     17
RPP 1181   3.08801   3.40551   0.18288   5.26288  17.86128  20.40128     17
RPP 1182   3.40551   3.72301   0.18288   5.26288  17.86128  20.40128     17
RPP 1183   3.72301   4.04051   0.18288   5.26288  17.86128  20.40128     17
RPP 1184   4.04051   4.35801   0.18288   5.26288  17.86128  20.40128     17
RPP 1185   4.35801   4.67551   0.18288   5.26288  17.86128  20.40128     17
RPP 1186   4.67551   4.99301   0.18288   5.26288  17.86128  20.40128     17
RPP 1187   4.99301   5.31051   0.18288   5.26288  17.86128  20.40128     17
RPP 1188   0.10160   0.14922   0.10160   5.34924  17.86128  20.40128     17
RPP 1189   5.39687   5.44449   0.10160   5.34924  17.86128  20.40128     17
RPP 1190   0.10160   1.81801   5.34924   5.42417  17.86128  20.40128     17
RPP 1191   1.81801   5.44449   5.34924   5.42417  17.86128  20.40128     17
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RPP 1192   0.23050   1.81801   5.26288   5.34924  17.86128  20.40128     17
RPP 1193   1.81801   5.31559   5.26288   5.34924  17.86128  20.40128     17
RPP 1194   5.31051   5.31559   0.18288   5.26288  17.86128  20.40128     17
RPP 1195   2.77051   5.31051   0.18288   5.26288  57.54878  58.18378     17
RPP 1196   5.31051   5.31559   0.18288   5.26288  38.81628  67.70878     17
RPP 1197   0.00000   2.77051   0.00000   0.10160  67.70878  68.34378     17
RPP 1198   2.77051   5.54609   0.00000   0.10160  67.70878  68.34378     17
RPP 1199   0.00000   2.77051   5.42417   5.52577  67.70878  68.34378     17
RPP 1200   2.77051   5.54609   5.42417   5.52577  67.70878  68.34378     17
RPP 1201   0.00000   0.10160   0.10160   5.42417  67.70878  68.34378     17
RPP 1202   5.44449   5.54609   0.10160   5.42417  67.70878  68.34378     17
RPP 1203   0.14922   0.23050   0.18288   5.34924  67.70878  68.34378     17
RPP 1204   5.31559   5.39687   0.18288   5.34924  67.70878  68.34378     17
RPP 1205   0.14922   2.77051   0.10160   0.18288  67.70878  68.34378     17
RPP 1206   2.77051   5.39687   0.10160   0.18288  67.70878  68.34378     17
RPP 1207   0.10160   0.14922   0.10160   5.34924  67.70878  68.34378     17
RPP 1208   5.39687   5.44449   0.10160   5.34924  67.70878  68.34378     17
RPP 1209   0.10160   2.77051   5.34924   5.42417  67.70878  68.34378     17
RPP 1210   2.77051   5.44449   5.34924   5.42417  67.70878  68.34378     17
RPP 1211   0.23050   2.77051   5.26288   5.34924  67.70878  68.34378     17
RPP 1212   2.77051   5.31559   5.26288   5.34924  67.70878  68.34378     17
RPP 1213   0.23050   2.77051   0.18288   5.26288  67.70878  68.34378     17
RPP 1214   5.31051   5.31559   0.18288   5.26288  67.70878  68.34378     17
RPP 1215   0.23050   0.54800   0.18288   5.26288  12.78128  17.86128     17
RPP 1216   0.54800   0.86550   0.18288   5.26288  12.78128  17.86128     17
RPP 1217   0.86550   1.18301   0.18288   5.26288  12.78128  17.86128     17
RPP 1218   1.18301   1.50050   0.18288   5.26288  12.78128  17.86128     17
RPP 1219   1.50050   1.81801   0.18288   5.26288  12.78128  17.86128     17
RPP 1220   0.00000   3.40551   0.00000   0.10160  17.86128  20.40128     17
RPP 1221   3.40551   5.54609   0.00000   0.10160  17.86128  20.40128     17
RPP 1222   0.00000   3.40551   5.42417   5.52577  17.86128  20.40128     17
RPP 1223   3.40551   5.54609   5.42417   5.52577  17.86128  20.40128     17
RPP 1224   0.14922   3.40551   0.10160   0.18288  17.86128  20.40128     17
RPP 1225   3.40551   5.39687   0.10160   0.18288  17.86128  20.40128     17
RPP 1226   3.40551   5.31051   0.18288   5.26288  17.86128  20.40128     17
RPP 1227   0.23050   0.54800   0.18288   5.26288  17.86128  20.40128     17
RPP 1228   0.54800   0.86550   0.18288   5.26288  17.86128  20.40128     17
RPP 1229   0.86550   1.18301   0.18288   5.26288  17.86128  20.40128     17
RPP 1230   1.18301   1.50050   0.18288   5.26288  17.86128  20.40128     17
RPP 1231   1.50050   1.81801   0.18288   5.26288  17.86128  20.40128     17
RPP 1232   0.10160   3.40551   5.34924   5.42417  17.86128  20.40128     17
RPP 1233   3.40551   5.44449   5.34924   5.42417  17.86128  20.40128     17
RPP 1234   0.23050   3.40551   5.26288   5.34924  17.86128  20.40128     17
RPP 1235   3.40551   5.31559   5.26288   5.34924  17.86128  20.40128     17
RPP 1236   0.23050   2.77051   0.18288   5.26288  57.54878  58.18378     17
RPP 1237   5.31051   5.31559   0.18288   5.26288  58.18378  67.70878     17
RPP 1238   5.31051   5.31559   0.18288   5.26288  38.81628  58.18378     17
RPP 1239   2.77051   5.31559   0.18288   5.26288  67.70878  68.34378     17
RPP 1240   0.00000   5.54609   0.00000   0.10160   2.54000  15.32128     17
RPP 1241   0.00000   5.54609   5.42417   5.52577   2.54000  15.32128     17
RPP 1242   0.00000   0.10160   0.10160   5.42417   2.54000  15.32128     17
RPP 1243   5.44449   5.54609   0.10160   5.42417   2.54000  15.32128     17
RPP 1244   0.14922   0.23050   0.18288   5.34924   0.08128  15.32128     17
RPP 1245   5.31559   5.39687   0.18288   5.34924   0.08128  15.32128     17
RPP 1246   0.14922   5.39687   0.10160   0.18288   0.08128  15.32128     17
RPP 1247   0.10160   0.14922   0.10160   5.34924   2.54000  15.32128     17
RPP 1248   5.39687   5.44449   0.10160   5.34924   2.54000  15.32128     17
RPP 1249   0.10160   5.44449   5.34924   5.42417   0.00000  15.32128     17
RPP 1250   0.23050   5.31559   5.26288   5.34924   0.08128  15.32128     17
RPP 1251   5.31051   5.31559   0.18288   5.26288   0.08128  15.32128     17
RPP 1252   0.00000   5.54609   0.00000   0.10160  15.32128  16.59128     17
RPP 1253   0.00000   5.54609   5.42417   5.52577  15.32128  16.59128     17
RPP 1254   0.00000   0.10160   0.10160   2.72288  15.32128  16.59128     17
RPP 1255   0.00000   0.10160   2.72288   5.42417  15.32128  16.59128     17
RPP 1256   5.44449   5.54609   0.10160   2.72288  15.32128  16.59128     17
RPP 1257   5.44449   5.54609   2.72288   5.42417  15.32128  16.59128     17
RPP 1258   0.14922   0.23050   0.18288   2.72288  15.32128  16.59128     17
RPP 1259   0.14922   0.23050   2.72288   5.34924  15.32128  16.59128     17
RPP 1260   5.31559   5.39687   0.18288   2.72288  15.32128  16.59128     17
RPP 1261   5.31559   5.39687   2.72288   5.34924  15.32128  16.59128     17
RPP 1262   0.14922   5.39687   0.10160   0.18288  15.32128  16.59128     17
RPP 1263   0.23050   5.31051   0.18288   2.72288  15.32128  16.59128     17
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RPP 1264   0.23050   5.31051   2.72288   3.04038  15.32128  16.59128     17
RPP 1265   0.23050   5.31051   3.04038   3.35788  15.32128  16.59128     17
RPP 1266   0.23050   5.31051   3.35788   3.67538  15.32128  16.59128     17
RPP 1267   0.23050   5.31051   3.67538   3.99288  15.32128  16.59128     17
RPP 1268   0.23050   5.31051   3.99288   4.31038  15.32128  16.59128     17
RPP 1269   0.23050   5.31051   4.31038   4.62788  15.32128  16.59128     17
RPP 1270   0.23050   5.31051   4.62788   4.94538  15.32128  16.59128     17
RPP 1271   0.23050   5.31051   4.94538   5.26288  15.32128  16.59128     17
RPP 1272   0.10160   0.14922   0.10160   2.72288  15.32128  16.59128     17
RPP 1273   0.10160   0.14922   2.72288   5.34924  15.32128  16.59128     17
RPP 1274   5.39687   5.44449   0.10160   2.72288  15.32128  16.59128     17
RPP 1275   5.39687   5.44449   2.72288   5.34924  15.32128  16.59128     17
RPP 1276   0.10160   5.44449   5.34924   5.42417  15.32128  16.59128     17
RPP 1277   0.23050   5.31559   5.26288   5.34924  15.32128  16.59128     17
RPP 1278   5.31051   5.31559   0.18288   2.72288  15.32128  16.59128     17
RPP 1279   5.31051   5.31559   2.72288   5.26288  15.32128  16.59128     17
RPP 1280   0.00000   5.54609   0.00000   0.10160  16.59128  38.73500     17
RPP 1281   0.00000   5.54609   5.42417   5.52577  16.59128  38.73500     17
RPP 1282   0.00000   0.10160   0.10160   5.42417  16.59128  38.73500     17
RPP 1283   5.44449   5.54609   0.10160   5.42417  16.59128  38.73500     17
RPP 1284   0.14922   0.23050   0.18288   5.34924  16.59128  38.65372     17
RPP 1285   5.31559   5.39687   0.18288   5.34924  16.59128  38.65372     17
RPP 1286   0.14922   5.39687   0.10160   0.18288  16.59128  38.65372     17
RPP 1287   0.23050   5.31051   0.18288   2.72288  16.59128  17.86128     17
RPP 1288   0.23050   5.31051   0.18288   5.26288  17.86128  38.18128     17
RPP 1289   0.23050   5.31051   2.72288   3.04038  16.59128  17.86128     17
RPP 1290   0.23050   5.31051   3.04038   3.35788  16.59128  17.86128     17
RPP 1291   0.23050   5.31051   3.35788   3.67538  16.59128  17.86128     17
RPP 1292   0.23050   5.31051   3.67538   3.99288  16.59128  17.86128     17
RPP 1293   0.23050   5.31051   3.99288   4.31038  16.59128  17.86128     17
RPP 1294   0.23050   5.31051   4.31038   4.62788  16.59128  17.86128     17
RPP 1295   0.23050   5.31051   4.62788   4.94538  16.59128  17.86128     17
RPP 1296   0.23050   5.31051   4.94538   5.26288  16.59128  17.86128     17
RPP 1297   0.10160   0.14922   0.10160   5.34924  16.59128  38.73500     17
RPP 1298   5.39687   5.44449   0.10160   5.34924  16.59128  38.73500     17
RPP 1299   0.10160   5.44449   5.34924   5.42417  16.59128  38.73500     17
RPP 1300   0.23050   5.31559   5.26288   5.34924  16.59128  38.34003     17
RPP 1301   5.31051   5.31559   0.18288   5.26288  17.86128  38.34003     17
RPP 1302   5.31051   5.31559   2.72288   5.26288  16.59128  17.86128     17
RPP 1303   5.31051   5.31559   0.18288   2.72288  16.59128  17.86128     17
RPP 1304   0.00000   5.54609   0.00000   0.10160  38.73500  67.39128     17
RPP 1305   0.00000   5.54609   5.42417   5.52577  38.73500  67.39128     17
RPP 1306   0.00000   0.10160   0.10160   5.42417  38.73500  67.39128     17
RPP 1307   5.44449   5.54609   0.10160   5.42417  38.73500  67.39128     17
RPP 1308   0.14922   0.23050   0.18288   5.34924  38.81628  67.39128     17
RPP 1309   5.31559   5.39687   0.18288   5.34924  38.81628  67.39128     17
RPP 1310   0.14922   5.39687   0.10160   0.18288  38.81628  67.39128     17
RPP 1311   0.23050   5.31051   0.18288   5.26288  56.59628  57.23128     17
RPP 1312   0.23050   5.31051   0.18288   5.26288  57.23128  67.39128     17
RPP 1313   0.10160   0.14922   0.10160   5.34924  38.73500  67.39128     17
RPP 1314   5.39687   5.44449   0.10160   5.34924  38.73500  67.39128     17
RPP 1315   0.10160   5.44449   5.34924   5.42417  38.73500  67.39128     17
RPP 1316   0.23050   5.31559   5.26288   5.34924  38.81628  67.39128     17
RPP 1317   5.31051   5.31559   0.18288   5.26288  38.81628  67.39128     17
RPP 1318   0.00000   5.54609   0.00000   0.10160  67.39128  85.09000     17
RPP 1319   0.00000   5.54609   5.42417   5.52577  67.39128  85.09000     17
RPP 1320   0.00000   0.10160   0.10160   5.42417  67.39128  85.09000     17
RPP 1321   5.44449   5.54609   0.10160   5.42417  67.39128  85.09000     17
RPP 1322   0.14922   0.23050   0.18288   5.34924  67.39128  82.46872     17
RPP 1323   5.31559   5.39687   0.18288   5.34924  67.39128  82.46872     17
RPP 1324   0.14922   5.39687   0.10160   0.18288  67.39128  82.46872     17
RPP 1325   0.23050   5.31051   0.18288   5.26288  67.39128  67.55003     17
RPP 1326   0.10160   0.14922   0.10160   5.34924  67.39128  82.55000     17
RPP 1327   5.39687   5.44449   0.10160   5.34924  67.39128  82.55000     17
RPP 1328   0.10160   5.44449   5.34924   5.42417  67.39128  82.55000     17
RPP 1329   0.23050   5.31559   5.26288   5.34924  67.39128  67.55003     17
RPP 1330   5.31051   5.31559   0.18288   5.26288  67.39128  67.55003     17
RPP 1331   0.23050   5.31559   0.18288   5.34924  67.55003  82.46872     17
RPP 1332   0.00000   5.54609   0.00000   0.10160  15.32128  38.73500     17
RPP 1333   0.00000   5.54609   5.42417   5.52577  15.32128  38.73500     17
RPP 1334   0.00000   0.10160   0.10160   5.42417  15.32128  38.73500     17
RPP 1335   5.44449   5.54609   0.10160   5.42417  15.32128  38.73500     17
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RPP 1336   0.14922   0.23050   0.18288   5.34924  15.32128  38.65372     17
RPP 1337   5.31559   5.39687   0.18288   5.34924  15.32128  38.65372     17
RPP 1338   0.14922   5.39687   0.10160   0.18288  15.32128  38.65372     17
RPP 1339   0.23050   5.31051   0.18288   5.26288  15.32128  28.02128     17
RPP 1340   0.23050   5.31051   0.18288   5.26288  28.02128  38.18128     17
RPP 1341   0.10160   0.14922   0.10160   5.34924  15.32128  38.73500     17
RPP 1342   5.39687   5.44449   0.10160   5.34924  15.32128  38.73500     17
RPP 1343   0.10160   5.44449   5.34924   5.42417  15.32128  38.73500     17
RPP 1344   0.23050   5.31559   5.26288   5.34924  15.32128  38.34003     17
RPP 1345   5.31051   5.31559   0.18288   5.26288  15.32128  38.34003     17
RPP 1346   0.00000   5.54609   0.00000   0.10160  38.73500  66.75628     17
RPP 1347   0.00000   5.54609   5.42417   5.52577  38.73500  66.75628     17
RPP 1348   0.00000   0.10160   0.10160   5.42417  38.73500  66.75628     17
RPP 1349   5.44449   5.54609   0.10160   5.42417  38.73500  66.75628     17
RPP 1350   0.14922   0.23050   0.18288   5.34924  38.81628  66.75628     17
RPP 1351   5.31559   5.39687   0.18288   5.34924  38.81628  66.75628     17
RPP 1352   0.14922   5.39687   0.10160   0.18288  38.81628  66.75628     17
RPP 1353   2.77051   5.31051   0.18288   5.26288  56.59628  57.23128     17
RPP 1354   0.23050   2.77051   0.18288   2.72288  56.59628  66.75628     17
RPP 1355   0.23050   2.77051   2.72288   5.26288  56.59628  66.75628     17
RPP 1356   2.77051   5.31051   0.18288   2.72288  57.23128  66.75628     17
RPP 1357   2.77051   5.31051   2.72288   5.26288  57.23128  66.75628     17
RPP 1358   0.10160   0.14922   0.10160   5.34924  38.73500  66.75628     17
RPP 1359   5.39687   5.44449   0.10160   5.34924  38.73500  66.75628     17
RPP 1360   0.10160   5.44449   5.34924   5.42417  38.73500  66.75628     17
RPP 1361   0.23050   5.31559   5.26288   5.34924  38.81628  66.75628     17
RPP 1362   5.31051   5.31559   0.18288   5.26288  38.81628  66.75628     17
RPP 1363   0.00000   2.77051   0.00000   0.10160  66.75628  67.39128     17
RPP 1364   2.77051   5.54609   0.00000   0.10160  66.75628  67.39128     17
RPP 1365   0.00000   2.77051   5.42417   5.52577  66.75628  67.39128     17
RPP 1366   2.77051   5.54609   5.42417   5.52577  66.75628  67.39128     17
RPP 1367   0.00000   0.10160   0.10160   5.42417  66.75628  67.39128     17
RPP 1368   5.44449   5.54609   0.10160   5.42417  66.75628  67.39128     17
RPP 1369   0.14922   0.23050   0.18288   5.34924  66.75628  67.39128     17
RPP 1370   5.31559   5.39687   0.18288   5.34924  66.75628  67.39128     17
RPP 1371   0.14922   2.77051   0.10160   0.18288  66.75628  67.39128     17
RPP 1372   2.77051   5.39687   0.10160   0.18288  66.75628  67.39128     17
RPP 1373   2.77051   5.31051   0.18288   2.72288  66.75628  67.39128     17
RPP 1374   2.77051   5.31051   2.72288   5.26288  66.75628  67.39128     17
RPP 1375   0.10160   0.14922   0.10160   5.34924  66.75628  67.39128     17
RPP 1376   5.39687   5.44449   0.10160   5.34924  66.75628  67.39128     17
RPP 1377   0.10160   2.77051   5.34924   5.42417  66.75628  67.39128     17
RPP 1378   2.77051   5.44449   5.34924   5.42417  66.75628  67.39128     17
RPP 1379   0.23050   2.77051   5.26288   5.34924  66.75628  67.39128     17
RPP 1380   2.77051   5.31559   5.26288   5.34924  66.75628  67.39128     17
RPP 1381   0.23050   2.77051   0.18288   5.26288  66.75628  67.39128     17
RPP 1382   5.31051   5.31559   0.18288   5.26288  66.75628  67.39128     17
RPP 1383   0.23050   2.77051   0.18288   5.26288  56.59628  57.23128     17
RPP 1384   0.23050   2.77051   0.18288   2.72288  57.23128  66.75628     17
RPP 1385   0.23050   2.77051   2.72288   5.26288  57.23128  66.75628     17
RPP 1386   2.77051   5.31051   0.18288   2.72288  56.59628  66.75628     17
RPP 1387   2.77051   5.31051   2.72288   5.26288  56.59628  66.75628     17
RPP 1388   5.31051   5.31559   0.18288   5.26288  57.23128  66.75628     17
RPP 1389   5.31051   5.31559   0.18288   5.26288  38.81628  57.23128     17
RPP 1390   0.23050   2.77051   0.18288   2.72288  66.75628  67.39128     17
RPP 1391   0.23050   2.77051   2.72288   5.26288  66.75628  67.39128     17
RPP 1392   2.77051   5.31559   0.18288   5.26288  66.75628  67.39128     17
RPP 1393   0.23050   5.31051   2.72288   5.26288  56.59628  57.23128     17
RPP 1394   5.31051   5.31559   2.72288   5.26288  56.59628  66.75628     17
RPP 1395   5.31051   5.31559   0.18288   5.26288  38.81628  56.59628     17
RPP 1396   5.31051   5.31559   0.18288   2.72288  56.59628  66.75628     17
RPP 1397   0.00000   5.54609   0.00000   0.10160  66.75628  67.39128     17
RPP 1398   0.00000   5.54609   5.42417   5.52577  66.75628  67.39128     17
RPP 1399   0.00000   0.10160   0.10160   2.72288  66.75628  67.39128     17
RPP 1400   0.00000   0.10160   2.72288   5.42417  66.75628  67.39128     17
RPP 1401   5.44449   5.54609   0.10160   2.72288  66.75628  67.39128     17
RPP 1402   5.44449   5.54609   2.72288   5.42417  66.75628  67.39128     17
RPP 1403   0.14922   0.23050   0.18288   2.72288  66.75628  67.39128     17
RPP 1404   0.14922   0.23050   2.72288   5.34924  66.75628  67.39128     17
RPP 1405   5.31559   5.39687   0.18288   2.72288  66.75628  67.39128     17
RPP 1406   5.31559   5.39687   2.72288   5.34924  66.75628  67.39128     17
RPP 1407   0.14922   5.39687   0.10160   0.18288  66.75628  67.39128     17
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RPP 1408   0.10160   0.14922   0.10160   2.72288  66.75628  67.39128     17
RPP 1409   0.10160   0.14922   2.72288   5.34924  66.75628  67.39128     17
RPP 1410   5.39687   5.44449   0.10160   2.72288  66.75628  67.39128     17
RPP 1411   5.39687   5.44449   2.72288   5.34924  66.75628  67.39128     17
RPP 1412   0.10160   5.44449   5.34924   5.42417  66.75628  67.39128     17
RPP 1413   0.23050   5.31559   5.26288   5.34924  66.75628  67.39128     17
RPP 1414   0.23050   5.31559   0.18288   2.72288  66.75628  67.39128     17
RPP 1415   5.31051   5.31559   2.72288   5.26288  66.75628  67.39128     17
RPP 1416   0.23050   5.31051   0.18288   2.72288  56.59628  57.23128     17
RPP 1417   0.23050   5.31559   2.72288   5.34924  66.75628  67.39128     17
RPP 1418   5.31051   5.31559   0.18288   2.72288  66.75628  67.39128     17
RPP 1419   0.00000   5.54609   0.00000   0.10160   2.54000  10.24128     17
RPP 1420   0.00000   5.54609   5.42417   5.52577   2.54000  10.24128     17
RPP 1421   0.00000   0.10160   0.10160   5.42417   2.54000  10.24128     17
RPP 1422   5.44449   5.54609   0.10160   5.42417   2.54000  10.24128     17
RPP 1423   0.14922   0.23050   0.18288   5.34924   0.08128  10.24128     17
RPP 1424   5.31559   5.39687   0.18288   5.34924   0.08128  10.24128     17
RPP 1425   0.14922   5.39687   0.10160   0.18288   0.08128  10.24128     17
RPP 1426   0.23050   0.54800   0.18288   5.26288   0.08128  10.24128     17
RPP 1427   0.54800   0.86550   0.18288   5.26288   0.08128  10.24128     17
RPP 1428   0.86550   1.18301   0.18288   5.26288   0.08128  10.24128     17
RPP 1429   1.18301   1.50050   0.18288   5.26288   0.08128  10.24128     17
RPP 1430   1.50050   1.81801   0.18288   5.26288   0.08128  10.24128     17
RPP 1431   1.81801   2.13551   0.18288   5.26288   0.08128  10.24128     17
RPP 1432   2.13551   2.45301   0.18288   5.26288   0.08128  10.24128     17
RPP 1433   2.45301   2.77051   0.18288   5.26288   0.08128  10.24128     17
RPP 1434   2.77051   3.08801   0.18288   5.26288   0.08128  10.24128     17
RPP 1435   3.08801   3.40551   0.18288   5.26288   0.08128  10.24128     17
RPP 1436   3.40551   3.72301   0.18288   5.26288   0.08128  10.24128     17
RPP 1437   3.72301   4.04051   0.18288   5.26288   0.08128  10.24128     17
RPP 1438   4.04051   4.35801   0.18288   5.26288   0.08128  10.24128     17
RPP 1439   4.35801   4.67551   0.18288   5.26288   0.08128  10.24128     17
RPP 1440   4.67551   4.99301   0.18288   5.26288   0.08128  10.24128     17
RPP 1441   4.99301   5.31051   0.18288   5.26288   0.08128  10.24128     17
RPP 1442   0.10160   0.14922   0.10160   5.34924   2.54000  10.24128     17
RPP 1443   5.39687   5.44449   0.10160   5.34924   2.54000  10.24128     17
RPP 1444   0.10160   5.44449   5.34924   5.42417   0.00000  10.24128     17
RPP 1445   0.23050   5.31559   5.26288   5.34924   0.08128  10.24128     17
RPP 1446   5.31051   5.31559   0.18288   5.26288   0.08128  10.24128     17
RPP 1447   0.00000   5.54609   0.00000   0.10160  10.24128  15.32128     17
RPP 1448   0.00000   5.54609   5.42417   5.52577  10.24128  15.32128     17
RPP 1449   0.00000   0.10160   0.10160   3.67538  10.24128  15.32128     17
RPP 1450   0.00000   0.10160   3.67538   5.42417  10.24128  15.32128     17
RPP 1451   5.44449   5.54609   0.10160   3.67538  10.24128  15.32128     17
RPP 1452   5.44449   5.54609   3.67538   5.42417  10.24128  15.32128     17
RPP 1453   0.14922   0.23050   0.18288   3.67538  10.24128  15.32128     17
RPP 1454   0.14922   0.23050   3.67538   5.34924  10.24128  15.32128     17
RPP 1455   5.31559   5.39687   0.18288   3.67538  10.24128  15.32128     17
RPP 1456   5.31559   5.39687   3.67538   5.34924  10.24128  15.32128     17
RPP 1457   0.14922   5.39687   0.10160   0.18288  10.24128  15.32128     17
RPP 1458   0.23050   5.31051   0.18288   0.50038  10.24128  15.32128     17
RPP 1459   0.23050   5.31051   0.50038   0.81788  10.24128  15.32128     17
RPP 1460   0.23050   5.31051   0.81788   1.13538  10.24128  15.32128     17
RPP 1461   0.23050   5.31051   1.13538   1.45288  10.24128  15.32128     17
RPP 1462   0.23050   5.31051   1.45288   1.77038  10.24128  15.32128     17
RPP 1463   0.23050   5.31051   1.77038   2.08788  10.24128  15.32128     17
RPP 1464   0.23050   5.31051   2.08788   2.40538  10.24128  15.32128     17
RPP 1465   0.23050   5.31051   2.40538   2.72288  10.24128  15.32128     17
RPP 1466   0.23050   5.31051   2.72288   3.04038  10.24128  15.32128     17
RPP 1467   0.23050   5.31051   3.04038   3.35788  10.24128  15.32128     17
RPP 1468   0.23050   5.31051   3.35788   3.67538  10.24128  15.32128     17
RPP 1469   0.23050   5.31051   3.67538   5.26288  10.24128  15.32128     17
RPP 1470   0.10160   0.14922   0.10160   3.67538  10.24128  15.32128     17
RPP 1471   0.10160   0.14922   3.67538   5.34924  10.24128  15.32128     17
RPP 1472   5.39687   5.44449   0.10160   3.67538  10.24128  15.32128     17
RPP 1473   5.39687   5.44449   3.67538   5.34924  10.24128  15.32128     17
RPP 1474   0.10160   5.44449   5.34924   5.42417  10.24128  15.32128     17
RPP 1475   0.23050   5.31559   5.26288   5.34924  10.24128  15.32128     17
RPP 1476   5.31051   5.31559   0.18288   3.67538  10.24128  15.32128     17
RPP 1477   5.31051   5.31559   3.67538   5.26288  10.24128  15.32128     17
RPP 1478   0.00000   0.10160   0.10160   1.77038  10.24128  15.32128     17
RPP 1479   0.00000   0.10160   1.77038   5.42417  10.24128  15.32128     17
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RPP 1480   5.44449   5.54609   0.10160   1.77038  10.24128  15.32128     17
RPP 1481   5.44449   5.54609   1.77038   5.42417  10.24128  15.32128     17
RPP 1482   0.14922   0.23050   0.18288   1.77038  10.24128  15.32128     17
RPP 1483   0.14922   0.23050   1.77038   5.34924  10.24128  15.32128     17
RPP 1484   5.31559   5.39687   0.18288   1.77038  10.24128  15.32128     17
RPP 1485   5.31559   5.39687   1.77038   5.34924  10.24128  15.32128     17
RPP 1486   0.23050   5.31051   0.18288   1.77038  10.24128  15.32128     17
RPP 1487   0.23050   5.31051   3.67538   3.99288  10.24128  15.32128     17
RPP 1488   0.23050   5.31051   3.99288   4.31038  10.24128  15.32128     17
RPP 1489   0.23050   5.31051   4.31038   4.62788  10.24128  15.32128     17
RPP 1490   0.23050   5.31051   4.62788   4.94538  10.24128  15.32128     17
RPP 1491   0.23050   5.31051   4.94538   5.26288  10.24128  15.32128     17
RPP 1492   0.10160   0.14922   0.10160   1.77038  10.24128  15.32128     17
RPP 1493   0.10160   0.14922   1.77038   5.34924  10.24128  15.32128     17
RPP 1494   5.39687   5.44449   0.10160   1.77038  10.24128  15.32128     17
RPP 1495   5.39687   5.44449   1.77038   5.34924  10.24128  15.32128     17
RPP 1496   5.31051   5.31559   0.18288   1.77038  10.24128  15.32128     17
RPP 1497   5.31051   5.31559   1.77038   5.26288  10.24128  15.32128     17
RPP 1498   0.00000   1.81801   0.00000   0.10160  10.24128  15.32128     17
RPP 1499   1.81801   5.54609   0.00000   0.10160  10.24128  15.32128     17
RPP 1500   0.00000   1.81801   5.42417   5.52577  10.24128  15.32128     17
RPP 1501   1.81801   5.54609   5.42417   5.52577  10.24128  15.32128     17
RPP 1502   0.00000   0.10160   0.10160   5.42417  10.24128  15.32128     17
RPP 1503   5.44449   5.54609   0.10160   5.42417  10.24128  15.32128     17
RPP 1504   0.14922   0.23050   0.18288   5.34924  10.24128  15.32128     17
RPP 1505   5.31559   5.39687   0.18288   5.34924  10.24128  15.32128     17
RPP 1506   0.14922   1.81801   0.10160   0.18288  10.24128  15.32128     17
RPP 1507   1.81801   5.39687   0.10160   0.18288  10.24128  15.32128     17
RPP 1508   3.40551   3.72301   0.18288   5.26288  10.24128  15.32128     17
RPP 1509   0.23050   1.81801   0.18288   5.26288  10.24128  15.32128     17
RPP 1510   1.81801   2.13551   0.18288   5.26288  10.24128  15.32128     17
RPP 1511   2.13551   2.45301   0.18288   5.26288  10.24128  15.32128     17
RPP 1512   2.45301   2.77051   0.18288   5.26288  10.24128  15.32128     17
RPP 1513   2.77051   3.08801   0.18288   5.26288  10.24128  15.32128     17
RPP 1514   3.08801   3.40551   0.18288   5.26288  10.24128  15.32128     17
RPP 1515   3.72301   4.04051   0.18288   5.26288  10.24128  15.32128     17
RPP 1516   4.04051   4.35801   0.18288   5.26288  10.24128  15.32128     17
RPP 1517   4.35801   4.67551   0.18288   5.26288  10.24128  15.32128     17
RPP 1518   4.67551   4.99301   0.18288   5.26288  10.24128  15.32128     17
RPP 1519   4.99301   5.31051   0.18288   5.26288  10.24128  15.32128     17
RPP 1520   0.10160   0.14922   0.10160   5.34924  10.24128  15.32128     17
RPP 1521   5.39687   5.44449   0.10160   5.34924  10.24128  15.32128     17
RPP 1522   0.10160   1.81801   5.34924   5.42417  10.24128  15.32128     17
RPP 1523   1.81801   5.44449   5.34924   5.42417  10.24128  15.32128     17
RPP 1524   0.23050   1.81801   5.26288   5.34924  10.24128  15.32128     17
RPP 1525   1.81801   5.31559   5.26288   5.34924  10.24128  15.32128     17
RPP 1526   5.31051   5.31559   0.18288   5.26288  10.24128  15.32128     17
RPP 1527   0.00000   3.40551   0.00000   0.10160  10.24128  15.32128     17
RPP 1528   3.40551   5.54609   0.00000   0.10160  10.24128  15.32128     17
RPP 1529   0.00000   3.40551   5.42417   5.52577  10.24128  15.32128     17
RPP 1530   3.40551   5.54609   5.42417   5.52577  10.24128  15.32128     17
RPP 1531   0.14922   3.40551   0.10160   0.18288  10.24128  15.32128     17
RPP 1532   3.40551   5.39687   0.10160   0.18288  10.24128  15.32128     17
RPP 1533   0.23050   0.54800   0.18288   5.26288  10.24128  15.32128     17
RPP 1534   0.54800   0.86550   0.18288   5.26288  10.24128  15.32128     17
RPP 1535   0.86550   1.18301   0.18288   5.26288  10.24128  15.32128     17
RPP 1536   1.18301   1.50050   0.18288   5.26288  10.24128  15.32128     17
RPP 1537   1.50050   1.81801   0.18288   5.26288  10.24128  15.32128     17
RPP 1538   3.40551   5.31051   0.18288   5.26288  10.24128  15.32128     17
RPP 1539   0.10160   3.40551   5.34924   5.42417  10.24128  15.32128     17
RPP 1540   3.40551   5.44449   5.34924   5.42417  10.24128  15.32128     17
RPP 1541   0.23050   3.40551   5.26288   5.34924  10.24128  15.32128     17
RPP 1542   3.40551   5.31559   5.26288   5.34924  10.24128  15.32128     17
RPP 1543   0.00000   5.54609   0.00000   0.10160   2.54000   7.70128     17
RPP 1544   0.00000   5.54609   5.42417   5.52577   2.54000   7.70128     17
RPP 1545   0.00000   0.10160   0.10160   5.42417   2.54000   7.70128     17
RPP 1546   5.44449   5.54609   0.10160   5.42417   2.54000   7.70128     17
RPP 1547   0.14922   0.23050   0.18288   5.34924   0.08128   7.70128     17
RPP 1548   5.31559   5.39687   0.18288   5.34924   0.08128   7.70128     17
RPP 1549   0.14922   5.39687   0.10160   0.18288   0.08128   7.70128     17
RPP 1550   0.10160   0.14922   0.10160   5.34924   2.54000   7.70128     17
RPP 1551   5.39687   5.44449   0.10160   5.34924   2.54000   7.70128     17
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RPP 1552   0.10160   5.44449   5.34924   5.42417   0.00000   7.70128     17
RPP 1553   0.23050   5.31559   5.26288   5.34924   0.08128   7.70128     17
RPP 1554   5.31051   5.31559   0.18288   5.26288   0.08128   7.70128     17
RPP 1555   0.00000   5.54609   0.00000   0.10160   7.70128  12.78128     17
RPP 1556   0.00000   5.54609   5.42417   5.52577   7.70128  12.78128     17
RPP 1557   0.00000   0.10160   0.10160   3.67538   7.70128  12.78128     17
RPP 1558   0.00000   0.10160   3.67538   5.42417   7.70128  12.78128     17
RPP 1559   5.44449   5.54609   0.10160   3.67538   7.70128  12.78128     17
RPP 1560   5.44449   5.54609   3.67538   5.42417   7.70128  12.78128     17
RPP 1561   0.14922   0.23050   0.18288   3.67538   7.70128  12.78128     17
RPP 1562   0.14922   0.23050   3.67538   5.34924   7.70128  12.78128     17
RPP 1563   5.31559   5.39687   0.18288   3.67538   7.70128  12.78128     17
RPP 1564   5.31559   5.39687   3.67538   5.34924   7.70128  12.78128     17
RPP 1565   0.14922   5.39687   0.10160   0.18288   7.70128  12.78128     17
RPP 1566   0.23050   5.31051   3.35788   3.67538   7.70128  12.78128     17
RPP 1567   0.23050   5.31051   0.18288   0.50038   7.70128  12.78128     17
RPP 1568   0.23050   5.31051   0.50038   0.81788   7.70128  12.78128     17
RPP 1569   0.23050   5.31051   0.81788   1.13538   7.70128  12.78128     17
RPP 1570   0.23050   5.31051   1.13538   1.45288   7.70128  12.78128     17
RPP 1571   0.23050   5.31051   1.45288   1.77038   7.70128  12.78128     17
RPP 1572   0.23050   5.31051   1.77038   2.08788   7.70128  12.78128     17
RPP 1573   0.23050   5.31051   2.08788   2.40538   7.70128  12.78128     17
RPP 1574   0.23050   5.31051   2.40538   2.72288   7.70128  12.78128     17
RPP 1575   0.23050   5.31051   2.72288   3.04038   7.70128  12.78128     17
RPP 1576   0.23050   5.31051   3.04038   3.35788   7.70128  12.78128     17
RPP 1577   0.23050   5.31051   3.67538   5.26288   7.70128  12.78128     17
RPP 1578   0.10160   0.14922   0.10160   3.67538   7.70128  12.78128     17
RPP 1579   0.10160   0.14922   3.67538   5.34924   7.70128  12.78128     17
RPP 1580   5.39687   5.44449   0.10160   3.67538   7.70128  12.78128     17
RPP 1581   5.39687   5.44449   3.67538   5.34924   7.70128  12.78128     17
RPP 1582   0.10160   5.44449   5.34924   5.42417   7.70128  12.78128     17
RPP 1583   0.23050   5.31559   5.26288   5.34924   7.70128  12.78128     17
RPP 1584   5.31051   5.31559   0.18288   3.67538   7.70128  12.78128     17
RPP 1585   5.31051   5.31559   3.67538   5.26288   7.70128  12.78128     17
RPP 1586   0.00000   5.54609   0.00000   0.10160  12.78128  38.73500     17
RPP 1587   0.00000   5.54609   5.42417   5.52577  12.78128  38.73500     17
RPP 1588   0.00000   0.10160   0.10160   5.42417  12.78128  38.73500     17
RPP 1589   5.44449   5.54609   0.10160   5.42417  12.78128  38.73500     17
RPP 1590   0.14922   0.23050   0.18288   5.34924  12.78128  38.65372     17
RPP 1591   5.31559   5.39687   0.18288   5.34924  12.78128  38.65372     17
RPP 1592   0.14922   5.39687   0.10160   0.18288  12.78128  38.65372     17
RPP 1593   0.23050   5.31051   0.18288   5.26288  12.78128  38.18128     17
RPP 1594   0.10160   0.14922   0.10160   5.34924  12.78128  38.73500     17
RPP 1595   5.39687   5.44449   0.10160   5.34924  12.78128  38.73500     17
RPP 1596   0.10160   5.44449   5.34924   5.42417  12.78128  38.73500     17
RPP 1597   0.23050   5.31559   5.26288   5.34924  12.78128  38.34003     17
RPP 1598   5.31051   5.31559   0.18288   5.26288  12.78128  38.34003     17
RPP 1599   0.00000   5.54609   0.00000   0.10160  38.73500  61.67628     17
RPP 1600   0.00000   5.54609   5.42417   5.52577  38.73500  61.67628     17
RPP 1601   0.00000   0.10160   0.10160   5.42417  38.73500  61.67628     17
RPP 1602   5.44449   5.54609   0.10160   5.42417  38.73500  61.67628     17
RPP 1603   0.14922   0.23050   0.18288   5.34924  38.81628  61.67628     17
RPP 1604   5.31559   5.39687   0.18288   5.34924  38.81628  61.67628     17
RPP 1605   0.14922   5.39687   0.10160   0.18288  38.81628  61.67628     17
RPP 1606   0.23050   5.31051   0.18288   5.26288  51.51628  61.67628     17
RPP 1607   0.10160   0.14922   0.10160   5.34924  38.73500  61.67628     17
RPP 1608   5.39687   5.44449   0.10160   5.34924  38.73500  61.67628     17
RPP 1609   0.10160   5.44449   5.34924   5.42417  38.73500  61.67628     17
RPP 1610   0.23050   5.31559   5.26288   5.34924  38.81628  61.67628     17
RPP 1611   0.00000   5.54609   0.00000   0.10160  61.67628  85.09000     17
RPP 1612   0.00000   5.54609   5.42417   5.52577  61.67628  85.09000     17
RPP 1613   0.00000   0.10160   0.10160   5.42417  61.67628  85.09000     17
RPP 1614   5.44449   5.54609   0.10160   5.42417  61.67628  85.09000     17
RPP 1615   0.14922   0.23050   0.18288   5.34924  61.67628  82.46872     17
RPP 1616   5.31559   5.39687   0.18288   5.34924  61.67628  82.46872     17
RPP 1617   0.14922   5.39687   0.10160   0.18288  61.67628  82.46872     17
RPP 1618   0.23050   5.31051   0.18288   5.26288  61.67628  61.83503     17
RPP 1619   0.10160   0.14922   0.10160   5.34924  61.67628  82.55000     17
RPP 1620   5.39687   5.44449   0.10160   5.34924  61.67628  82.55000     17
RPP 1621   0.10160   5.44449   5.34924   5.42417  61.67628  82.55000     17
RPP 1622   0.23050   5.31559   0.18288   5.34924  61.83503  82.46872     17
RPP 1623   0.23050   5.31559   5.26288   5.34924  61.67628  61.83503     17
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RPP 1624	5.31051	5.31559	0.18288	5.26288	61.67628	61.83503	17
RPP 1625	0.00000	0.10160	0.10160	2.08788	7.70128	12.78128	17
RPP 1626	0.00000	0.10160	2.08788	5.42417	7.70128	12.78128	17
RPP 1627	5.44449	5.54609	0.10160	2.08788	7.70128	12.78128	17
RPP 1628	5.44449	5.54609	2.08788	5.42417	7.70128	12.78128	17
RPP 1629	0.14922	0.23050	0.18288	2.08788	7.70128	12.78128	17
RPP 1630	0.14922	0.23050	2.08788	5.34924	7.70128	12.78128	17
RPP 1631	5.31559	5.39687	0.18288	2.08788	7.70128	12.78128	17
RPP 1632	5.31559	5.39687	2.08788	5.34924	7.70128	12.78128	17
RPP 1633	0.23050	5.31051	0.18288	2.08788	7.70128	12.78128	17
RPP 1634	0.23050	5.31051	3.67538	3.99288	7.70128	12.78128	17
RPP 1635	0.23050	5.31051	3.99288	4.31038	7.70128	12.78128	17
RPP 1636	0.23050	5.31051	4.31038	4.62788	7.70128	12.78128	17
RPP 1637	0.23050	5.31051	4.62788	4.94538	7.70128	12.78128	17
RPP 1638	0.23050	5.31051	4.94538	5.26288	7.70128	12.78128	17
RPP 1639	0.10160	0.14922	0.10160	2.08788	7.70128	12.78128	17
RPP 1640	0.10160	0.14922	2.08788	5.34924	7.70128	12.78128	17
RPP 1641	5.39687	5.44449	0.10160	2.08788	7.70128	12.78128	17
RPP 1642	5.39687	5.44449	2.08788	5.34924	7.70128	12.78128	17
RPP 1643	5.31051	5.31559	0.18288	2.08788	7.70128	12.78128	17
RPP 1644	5.31051	5.31559	2.08788	5.26288	7.70128	12.78128	17
RPP 1645	0.00000	2.13551	0.00000	0.10160	7.70128	12.78128	17
RPP 1646	2.13551	5.54609	0.00000	0.10160	7.70128	12.78128	17
RPP 1647	0.00000	2.13551	5.42417	5.52577	7.70128	12.78128	17
RPP 1648	2.13551	5.54609	5.42417	5.52577	7.70128	12.78128	17
RPP 1649	0.00000	0.10160	0.10160	5.42417	7.70128	12.78128	17
RPP 1650	5.44449	5.54609	0.10160	5.42417	7.70128	12.78128	17
RPP 1651	0.14922	0.23050	0.18288	5.34924	7.70128	12.78128	17
RPP 1652	5.31559	5.39687	0.18288	5.34924	7.70128	12.78128	17
RPP 1653	0.14922	2.13551	0.10160	0.18288	7.70128	12.78128	17
RPP 1654	2.13551	5.39687	0.10160	0.18288	7.70128	12.78128	17
RPP 1655	0.23050	2.13551	0.18288	5.26288	7.70128	12.78128	17
RPP 1656	0.10160	0.14922	0.10160	5.34924	7.70128	12.78128	17
RPP 1657	5.39687	5.44449	0.10160	5.34924	7.70128	12.78128	17
RPP 1658	0.10160	2.13551	5.34924	5.42417	7.70128	12.78128	17
RPP 1659	2.13551	5.44449	5.34924	5.42417	7.70128	12.78128	17
RPP 1660	0.23050	2.13551	5.26288	5.34924	7.70128	12.78128	17
RPP 1661	2.13551	5.31559	5.26288	5.34924	7.70128	12.78128	17
RPP 1662	5.31051	5.31559	0.18288	5.26288	7.70128	12.78128	17
RPP 1663	0.00000	3.72301	0.00000	0.10160	7.70128	12.78128	17
RPP 1664	3.72301	5.54609	0.00000	0.10160	7.70128	12.78128	17
RPP 1665	0.00000	3.72301	5.42417	5.52577	7.70128	12.78128	17
RPP 1666	3.72301	5.54609	5.42417	5.52577	7.70128	12.78128	17
RPP 1667	0.14922	3.72301	0.10160	0.18288	7.70128	12.78128	17
RPP 1668	3.72301	5.39687	0.10160	0.18288	7.70128	12.78128	17
RPP 1669	3.72301	5.31051	0.18288	5.26288	7.70128	12.78128	17
RPP 1670	0.10160	3.72301	5.34924	5.42417	7.70128	12.78128	17
RPP 1671	3.72301	5.44449	5.34924	5.42417	7.70128	12.78128	17
RPP 1672	0.23050	3.72301	5.26288	5.34924	7.70128	12.78128	17
RPP 1673	3.72301	5.31559	5.26288	5.34924	7.70128	12.78128	17
RPP 1674	0.00000	0.10160	0.10160	3.67538	0.00000	2.54000	17
RPP 1675	0.00000	0.10160	3.67538	5.42417	0.00000	2.54000	17
RPP 1676	5.44449	5.54609	0.10160	3.67538	0.00000	2.54000	17
RPP 1677	5.44449	5.54609	3.67538	5.42417	0.00000	2.54000	17
RPP 1678	0.00000	5.54609	0.00000	0.10160	2.54000	5.16128	17
RPP 1679	0.00000	5.54609	5.42417	5.52577	2.54000	5.16128	17
RPP 1680	0.00000	0.10160	0.10160	3.67538	2.54000	5.16128	17
RPP 1681	0.00000	0.10160	3.67538	5.42417	2.54000	5.16128	17
RPP 1682	5.44449	5.54609	0.10160	3.67538	2.54000	5.16128	17
RPP 1683	5.44449	5.54609	3.67538	5.42417	2.54000	5.16128	17
RPP 1684	0.14922	5.39687	0.10160	3.67538	0.00000	0.08128	17
RPP 1685	0.14922	5.39687	3.67538	5.34924	0.00000	0.08128	17
RPP 1686	0.14922	0.23050	0.18288	3.67538	0.08128	5.16128	17
RPP 1687	0.14922	0.23050	3.67538	5.34924	0.08128	5.16128	17
RPP 1688	5.31559	5.39687	0.18288	3.67538	0.08128	5.16128	17
RPP 1689	5.31559	5.39687	3.67538	5.34924	0.08128	5.16128	17
RPP 1690	0.14922	5.39687	0.10160	0.18288	0.08128	5.16128	17
RPP 1691	0.23050	5.31051	1.77038	2.08788	0.08128	5.16128	17
RPP 1692	0.23050	5.31051	0.18288	0.50038	0.08128	5.16128	17
RPP 1693	0.23050	5.31051	0.50038	0.81788	0.08128	5.16128	17
RPP 1694	0.23050	5.31051	0.81788	1.13538	0.08128	5.16128	17
RPP 1695	0.23050	5.31051	1.13538	1.45288	0.08128	5.16128	17

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RPP 1696   0.23050   5.31051   1.45288   1.77038   0.08128   5.16128     17
RPP 1697   0.23050   5.31051   2.08788   2.40538   0.08128   5.16128     17
RPP 1698   0.23050   5.31051   2.40538   2.72288   0.08128   5.16128     17
RPP 1699   0.23050   5.31051   2.72288   3.04038   0.08128   5.16128     17
RPP 1700   0.23050   5.31051   3.04038   3.35788   0.08128   5.16128     17
RPP 1701   0.23050   5.31051   3.35788   3.67538   0.08128   5.16128     17
RPP 1702   0.23050   5.31051   3.67538   5.26288   0.08128   5.16128     17
RPP 1703   0.10160   0.14922   0.10160   3.67538   2.54000   5.16128     17
RPP 1704   0.10160   0.14922   3.67538   5.34924   2.54000   5.16128     17
RPP 1705   5.39687   5.44449   0.10160   3.67538   2.54000   5.16128     17
RPP 1706   5.39687   5.44449   3.67538   5.34924   2.54000   5.16128     17
RPP 1707   0.10160   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 1708   0.23050   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 1709   5.31051   5.31559   0.18288   3.67538   0.08128   2.54000     17
RPP 1710   5.31051   5.31559   3.67538   5.26288   0.08128   2.54000     17
RPP 1711   5.39687   5.44449   0.10160   3.67538   0.00000   2.54000     17
RPP 1712   5.39687   5.44449   3.67538   5.34924   0.00000   2.54000     17
RPP 1713   0.10160   0.14922   0.10160   3.67538   0.00000   2.54000     17
RPP 1714   0.10160   0.14922   3.67538   5.34924   0.00000   2.54000     17
RPP 1715   5.31051   5.31559   0.18288   3.67538   2.54000   5.16128     17
RPP 1716   5.31051   5.31559   3.67538   5.26288   2.54000   5.16128     17
RPP 1717   0.00000   5.54609   0.00000   0.10160   5.16128  10.24128     17
RPP 1718   0.00000   5.54609   5.42417   5.52577   5.16128  10.24128     17
RPP 1719   0.00000   0.10160   0.10160   1.77038   5.16128  10.24128     17
RPP 1720   0.00000   0.10160   1.77038   5.42417   5.16128  10.24128     17
RPP 1721   5.44449   5.54609   0.10160   1.77038   5.16128  10.24128     17
RPP 1722   5.44449   5.54609   1.77038   5.42417   5.16128  10.24128     17
RPP 1723   0.14922   0.23050   0.18288   1.77038   5.16128  10.24128     17
RPP 1724   0.14922   0.23050   1.77038   5.34924   5.16128  10.24128     17
RPP 1725   5.31559   5.39687   0.18288   1.77038   5.16128  10.24128     17
RPP 1726   5.31559   5.39687   1.77038   5.34924   5.16128  10.24128     17
RPP 1727   0.14922   5.39687   0.10160   0.18288   5.16128  10.24128     17
RPP 1728   0.23050   5.31051   0.18288   0.50038   5.16128  10.24128     17
RPP 1729   0.23050   5.31051   0.50038   0.81788   5.16128  10.24128     17
RPP 1730   0.23050   5.31051   0.81788   1.13538   5.16128  10.24128     17
RPP 1731   0.23050   5.31051   1.13538   1.45288   5.16128  10.24128     17
RPP 1732   0.23050   5.31051   1.45288   1.77038   5.16128  10.24128     17
RPP 1733   0.23050   5.31051   1.77038   3.35788   5.16128  10.24128     17
RPP 1734   0.23050   5.31051   3.35788   5.26288   5.16128  10.24128     17
RPP 1735   0.10160   0.14922   0.10160   1.77038   5.16128  10.24128     17
RPP 1736   0.10160   0.14922   1.77038   5.34924   5.16128  10.24128     17
RPP 1737   5.39687   5.44449   0.10160   1.77038   5.16128  10.24128     17
RPP 1738   5.39687   5.44449   1.77038   5.34924   5.16128  10.24128     17
RPP 1739   0.10160   5.44449   5.34924   5.42417   5.16128  10.24128     17
RPP 1740   0.23050   5.31559   5.26288   5.34924   5.16128  10.24128     17
RPP 1741   5.31051   5.31559   0.18288   1.77038   5.16128  10.24128     17
RPP 1742   5.31051   5.31559   1.77038   5.26288   5.16128  10.24128     17
RPP 1743   0.00000   5.54609   0.00000   0.10160  10.24128  38.73500     17
RPP 1744   0.00000   5.54609   5.42417   5.52577  10.24128  38.73500     17
RPP 1745   0.00000   0.10160   0.10160   5.42417  10.24128  38.73500     17
RPP 1746   5.44449   5.54609   0.10160   5.42417  10.24128  38.73500     17
RPP 1747   0.14922   0.23050   0.18288   5.34924  10.24128  38.65372     17
RPP 1748   5.31559   5.39687   0.18288   5.34924  10.24128  38.65372     17
RPP 1749   0.14922   5.39687   0.10160   0.18288  10.24128  38.65372     17
RPP 1750   0.23050   5.31051   0.18288   5.26288  10.24128  22.94128     17
RPP 1751   0.10160   0.14922   0.10160   5.34924  10.24128  38.73500     17
RPP 1752   5.39687   5.44449   0.10160   5.34924  10.24128  38.73500     17
RPP 1753   0.10160   5.44449   5.34924   5.42417  10.24128  38.73500     17
RPP 1754   0.23050   5.31559   5.26288   5.34924  10.24128  38.34003     17
RPP 1755   5.31051   5.31559   0.18288   5.26288  10.24128  38.34003     17
RPP 1756   0.00000   5.54609   0.00000   0.10160  38.73500  60.40628     17
RPP 1757   0.00000   5.54609   5.42417   5.52577  38.73500  60.40628     17
RPP 1758   0.00000   0.10160   0.10160   5.42417  38.73500  60.40628     17
RPP 1759   5.44449   5.54609   0.10160   5.42417  38.73500  60.40628     17
RPP 1760   0.14922   0.23050   0.18288   5.34924  38.81628  60.40628     17
RPP 1761   5.31559   5.39687   0.18288   5.34924  38.81628  60.40628     17
RPP 1762   0.14922   5.39687   0.10160   0.18288  38.81628  60.40628     17
RPP 1763   0.23050   5.31051   0.18288   5.26288  48.97628  50.24628     17
RPP 1764   0.23050   5.31051   0.18288   5.26288  38.81628  48.97628     17
RPP 1765   0.23050   5.31051   0.18288   5.26288  50.24628  60.40628     17
RPP 1766   0.10160   0.14922   0.10160   5.34924  38.73500  60.40628     17
RPP 1767   5.39687   5.44449   0.10160   5.34924  38.73500  60.40628     17
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RPP 1768   0.10160   5.44449   5.34924   5.42417  38.73500  60.40628     17
RPP 1769   0.23050   5.31559   5.26288   5.34924  38.81628  60.40628     17
RPP 1770   5.31051   5.31559   0.18288   5.26288  38.81628  60.40628     17
RPP 1771   0.00000   5.54609   0.00000   0.10160  60.40628  85.09000     17
RPP 1772   0.00000   5.54609   5.42417   5.52577  60.40628  85.09000     17
RPP 1773   0.00000   0.10160   0.10160   5.42417  60.40628  85.09000     17
RPP 1774   5.44449   5.54609   0.10160   5.42417  60.40628  85.09000     17
RPP 1775   0.14922   0.23050   0.18288   5.34924  60.40628  82.46872     17
RPP 1776   5.31559   5.39687   0.18288   5.34924  60.40628  82.46872     17
RPP 1777   0.14922   5.39687   0.10160   0.18288  60.40628  82.46872     17
RPP 1778   0.23050   5.31051   0.18288   5.26288  60.40628  60.56503     17
RPP 1779   0.10160   0.14922   0.10160   5.34924  60.40628  82.55000     17
RPP 1780   5.39687   5.44449   0.10160   5.34924  60.40628  82.55000     17
RPP 1781   0.10160   5.44449   5.34924   5.42417  60.40628  82.55000     17
RPP 1782   0.23050   5.31559   5.26288   5.34924  60.40628  60.56503     17
RPP 1783   5.31051   5.31559   0.18288   5.26288  60.40628  60.56503     17
RPP 1784   0.23050   5.31559   0.18288   5.34924  60.56503  82.46872     17
RPP 1785   0.00000   1.81801   0.00000   0.10160   0.00000   2.54000     17
RPP 1786   1.81801   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 1787   0.00000   1.81801   5.42417   5.52577   0.00000   2.54000     17
RPP 1788   1.81801   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 1789   0.00000   1.81801   0.00000   0.10160   2.54000   5.16128     17
RPP 1790   1.81801   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 1791   0.00000   1.81801   5.42417   5.52577   2.54000   5.16128     17
RPP 1792   1.81801   5.54609   5.42417   5.52577   2.54000   5.16128     17
RPP 1793   0.00000   0.10160   0.10160   5.42417   2.54000   5.16128     17
RPP 1794   5.44449   5.54609   0.10160   5.42417   2.54000   5.16128     17
RPP 1795   0.14922   1.81801   0.10160   5.34924   0.00000   0.08128     17
RPP 1796   1.81801   5.39687   0.10160   5.34924   0.00000   0.08128     17
RPP 1797   0.14922   0.23050   0.18288   5.34924   0.08128   5.16128     17
RPP 1798   5.31559   5.39687   0.18288   5.34924   0.08128   5.16128     17
RPP 1799   0.14922   1.81801   0.10160   0.18288   0.08128   5.16128     17
RPP 1800   1.81801   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 1801   4.99301   5.31051   0.18288   5.26288   0.08128   5.16128     17
RPP 1802   0.23050   1.81801   0.18288   5.26288   0.08128   5.16128     17
RPP 1803   1.81801   2.13551   0.18288   5.26288   0.08128   5.16128     17
RPP 1804   2.13551   2.45301   0.18288   5.26288   0.08128   5.16128     17
RPP 1805   2.45301   2.77051   0.18288   5.26288   0.08128   5.16128     17
RPP 1806   2.77051   3.08801   0.18288   5.26288   0.08128   5.16128     17
RPP 1807   3.08801   3.40551   0.18288   5.26288   0.08128   5.16128     17
RPP 1808   3.40551   3.72301   0.18288   5.26288   0.08128   5.16128     17
RPP 1809   3.72301   4.04051   0.18288   5.26288   0.08128   5.16128     17
RPP 1810   4.04051   4.35801   0.18288   5.26288   0.08128   5.16128     17
RPP 1811   4.35801   4.67551   0.18288   5.26288   0.08128   5.16128     17
RPP 1812   4.67551   4.99301   0.18288   5.26288   0.08128   5.16128     17
RPP 1813   0.10160   0.14922   0.10160   5.34924   2.54000   5.16128     17
RPP 1814   5.39687   5.44449   0.10160   5.34924   2.54000   5.16128     17
RPP 1815   0.10160   1.81801   5.34924   5.42417   0.00000   5.16128     17
RPP 1816   1.81801   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 1817   0.23050   1.81801   5.26288   5.34924   0.08128   5.16128     17
RPP 1818   1.81801   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 1819   5.31051   5.31559   0.18288   5.26288   0.08128   5.16128     17
RPP 1820   0.00000   3.72301   0.00000   0.10160   5.16128  10.24128     17
RPP 1821   3.72301   5.54609   0.00000   0.10160   5.16128  10.24128     17
RPP 1822   0.00000   3.72301   5.42417   5.52577   5.16128  10.24128     17
RPP 1823   3.72301   5.54609   5.42417   5.52577   5.16128  10.24128     17
RPP 1824   0.00000   0.10160   0.10160   5.42417   5.16128  10.24128     17
RPP 1825   5.44449   5.54609   0.10160   5.42417   5.16128  10.24128     17
RPP 1826   0.14922   0.23050   0.18288   5.34924   5.16128  10.24128     17
RPP 1827   5.31559   5.39687   0.18288   5.34924   5.16128  10.24128     17
RPP 1828   0.14922   3.72301   0.10160   0.18288   5.16128  10.24128     17
RPP 1829   3.72301   5.39687   0.10160   0.18288   5.16128  10.24128     17
RPP 1830   0.23050   2.13551   0.18288   5.26288   5.16128  10.24128     17
RPP 1831   2.13551   3.72301   0.18288   5.26288   5.16128  10.24128     17
RPP 1832   3.72301   4.04051   0.18288   5.26288   5.16128  10.24128     17
RPP 1833   4.04051   4.35801   0.18288   5.26288   5.16128  10.24128     17
RPP 1834   4.35801   4.67551   0.18288   5.26288   5.16128  10.24128     17
RPP 1835   4.67551   4.99301   0.18288   5.26288   5.16128  10.24128     17
RPP 1836   4.99301   5.31051   0.18288   5.26288   5.16128  10.24128     17
RPP 1837   0.10160   0.14922   0.10160   5.34924   5.16128  10.24128     17
RPP 1838   5.39687   5.44449   0.10160   5.34924   5.16128  10.24128     17
RPP 1839   0.10160   3.72301   5.34924   5.42417   5.16128  10.24128     17
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RPP 1840   3.72301   5.44449   5.34924   5.42417   5.16128  10.24128     17
RPP 1841   0.23050   3.72301   5.26288   5.34924   5.16128  10.24128     17
RPP 1842   3.72301   5.31559   5.26288   5.34924   5.16128  10.24128     17
RPP 1843   5.31051   5.31559   0.18288   5.26288   5.16128  10.24128     17
RPP 1844   0.00000   3.72301   0.00000   0.10160   0.00000   2.54000     17
RPP 1845   3.72301   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 1846   0.00000   3.72301   5.42417   5.52577   0.00000   2.54000     17
RPP 1847   3.72301   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 1848   0.00000   3.72301   0.00000   0.10160   2.54000   5.16128     17
RPP 1849   3.72301   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 1850   0.00000   3.72301   5.42417   5.52577   2.54000   5.16128     17
RPP 1851   3.72301   5.54609   5.42417   5.52577   2.54000   5.16128     17
RPP 1852   0.14922   3.72301   0.10160   5.34924   0.00000   0.08128     17
RPP 1853   3.72301   5.39687   0.10160   5.34924   0.00000   0.08128     17
RPP 1854   0.14922   3.72301   0.10160   0.18288   0.08128   5.16128     17
RPP 1855   3.72301   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 1856   0.23050   0.54800   0.18288   5.26288   0.08128   5.16128     17
RPP 1857   0.54800   0.86550   0.18288   5.26288   0.08128   5.16128     17
RPP 1858   0.86550   1.18301   0.18288   5.26288   0.08128   5.16128     17
RPP 1859   1.18301   1.50050   0.18288   5.26288   0.08128   5.16128     17
RPP 1860   1.50050   1.81801   0.18288   5.26288   0.08128   5.16128     17
RPP 1861   3.72301   5.31051   0.18288   5.26288   0.08128   5.16128     17
RPP 1862   0.10160   3.72301   5.34924   5.42417   0.00000   5.16128     17
RPP 1863   3.72301   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 1864   0.23050   3.72301   5.26288   5.34924   0.08128   5.16128     17
RPP 1865   3.72301   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 1866   0.00000   1.81801   0.00000   0.10160   5.16128  10.24128     17
RPP 1867   1.81801   5.54609   0.00000   0.10160   5.16128  10.24128     17
RPP 1868   0.00000   1.81801   5.42417   5.52577   5.16128  10.24128     17
RPP 1869   1.81801   5.54609   5.42417   5.52577   5.16128  10.24128     17
RPP 1870   0.14922   1.81801   0.10160   0.18288   5.16128  10.24128     17
RPP 1871   1.81801   5.39687   0.10160   0.18288   5.16128  10.24128     17
RPP 1872   0.23050   0.54800   0.18288   5.26288   5.16128  10.24128     17
RPP 1873   0.54800   0.86550   0.18288   5.26288   5.16128  10.24128     17
RPP 1874   0.86550   1.18301   0.18288   5.26288   5.16128  10.24128     17
RPP 1875   1.18301   1.50050   0.18288   5.26288   5.16128  10.24128     17
RPP 1876   1.50050   1.81801   0.18288   5.26288   5.16128  10.24128     17
RPP 1877   1.81801   3.40551   0.18288   5.26288   5.16128  10.24128     17
RPP 1878   3.40551   5.31051   0.18288   5.26288   5.16128  10.24128     17
RPP 1879   0.10160   1.81801   5.34924   5.42417   5.16128  10.24128     17
RPP 1880   1.81801   5.44449   5.34924   5.42417   5.16128  10.24128     17
RPP 1881   0.23050   1.81801   5.26288   5.34924   5.16128  10.24128     17
RPP 1882   1.81801   5.31559   5.26288   5.34924   5.16128  10.24128     17
RPP 1883   0.00000   0.10160   0.10160   2.40538   0.00000   2.54000     17
RPP 1884   0.00000   0.10160   2.40538   5.42417   0.00000   2.54000     17
RPP 1885   5.44449   5.54609   0.10160   2.40538   0.00000   2.54000     17
RPP 1886   5.44449   5.54609   2.40538   5.42417   0.00000   2.54000     17
RPP 1887   0.00000   0.10160   0.10160   2.40538   2.54000   5.16128     17
RPP 1888   0.00000   0.10160   2.40538   5.42417   2.54000   5.16128     17
RPP 1889   5.44449   5.54609   0.10160   2.40538   2.54000   5.16128     17
RPP 1890   5.44449   5.54609   2.40538   5.42417   2.54000   5.16128     17
RPP 1891   0.14922   5.39687   0.10160   2.40538   0.00000   0.08128     17
RPP 1892   0.14922   5.39687   2.40538   5.34924   0.00000   0.08128     17
RPP 1893   0.14922   0.23050   0.18288   2.40538   0.08128   5.16128     17
RPP 1894   0.14922   0.23050   2.40538   5.34924   0.08128   5.16128     17
RPP 1895   5.31559   5.39687   0.18288   2.40538   0.08128   5.16128     17
RPP 1896   5.31559   5.39687   2.40538   5.34924   0.08128   5.16128     17
RPP 1897   0.23050   5.31051   2.40538   5.26288   0.08128   5.16128     17
RPP 1898   0.10160   0.14922   0.10160   2.40538   2.54000   5.16128     17
RPP 1899   0.10160   0.14922   2.40538   5.34924   2.54000   5.16128     17
RPP 1900   5.39687   5.44449   0.10160   2.40538   2.54000   5.16128     17
RPP 1901   5.39687   5.44449   2.40538   5.34924   2.54000   5.16128     17
RPP 1902   5.31051   5.31559   0.18288   2.40538   0.08128   2.54000     17
RPP 1903   5.31051   5.31559   2.40538   5.26288   0.08128   2.54000     17
RPP 1904   5.39687   5.44449   0.10160   2.40538   0.00000   2.54000     17
RPP 1905   5.39687   5.44449   2.40538   5.34924   0.00000   2.54000     17
RPP 1906   0.10160   0.14922   0.10160   2.40538   0.00000   2.54000     17
RPP 1907   0.10160   0.14922   2.40538   5.34924   0.00000   2.54000     17
RPP 1908   5.31051   5.31559   0.18288   1.45288   2.54000   5.16128     17
RPP 1909   5.31051   5.31559   1.45288   2.40538   2.54000   5.16128     17
RPP 1910   5.31051   5.31559   2.40538   5.26288   2.54000   5.16128     17
RPP 1911   5.31051   5.31559   0.18288   1.45288   5.16128  10.24128     17
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RPP 1912   5.31051   5.31559   1.45288   1.77038   5.16128  10.24128     17
RPP 1913   0.00000   0.10160   0.10160   3.35788   0.00000   2.54000     17
RPP 1914   0.00000   0.10160   3.35788   5.42417   0.00000   2.54000     17
RPP 1915   5.44449   5.54609   0.10160   3.35788   0.00000   2.54000     17
RPP 1916   5.44449   5.54609   3.35788   5.42417   0.00000   2.54000     17
RPP 1917   0.00000   0.10160   0.10160   3.35788   2.54000   5.16128     17
RPP 1918   0.00000   0.10160   3.35788   5.42417   2.54000   5.16128     17
RPP 1919   5.44449   5.54609   0.10160   3.35788   2.54000   5.16128     17
RPP 1920   5.44449   5.54609   3.35788   5.42417   2.54000   5.16128     17
RPP 1921   0.14922   5.39687   0.10160   3.35788   0.00000   0.08128     17
RPP 1922   0.14922   5.39687   3.35788   5.34924   0.00000   0.08128     17
RPP 1923   0.14922   0.23050   0.18288   3.35788   0.08128   5.16128     17
RPP 1924   0.14922   0.23050   3.35788   5.34924   0.08128   5.16128     17
RPP 1925   5.31559   5.39687   0.18288   3.35788   0.08128   5.16128     17
RPP 1926   5.31559   5.39687   3.35788   5.34924   0.08128   5.16128     17
RPP 1927   0.23050   5.31051   4.62788   4.94538   0.08128   5.16128     17
RPP 1928   0.23050   5.31051   0.18288   1.77038   0.08128   5.16128     17
RPP 1929   0.23050   5.31051   1.77038   3.35788   0.08128   5.16128     17
RPP 1930   0.23050   5.31051   3.67538   3.99288   0.08128   5.16128     17
RPP 1931   0.23050   5.31051   3.99288   4.31038   0.08128   5.16128     17
RPP 1932   0.23050   5.31051   4.31038   4.62788   0.08128   5.16128     17
RPP 1933   0.23050   5.31051   4.94538   5.26288   0.08128   5.16128     17
RPP 1934   0.10160   0.14922   0.10160   3.35788   2.54000   5.16128     17
RPP 1935   0.10160   0.14922   3.35788   5.34924   2.54000   5.16128     17
RPP 1936   5.39687   5.44449   0.10160   3.35788   2.54000   5.16128     17
RPP 1937   5.39687   5.44449   3.35788   5.34924   2.54000   5.16128     17
RPP 1938   5.31051   5.31559   0.18288   3.35788   0.08128   2.54000     17
RPP 1939   5.31051   5.31559   3.35788   5.26288   0.08128   2.54000     17
RPP 1940   5.39687   5.44449   0.10160   3.35788   0.00000   2.54000     17
RPP 1941   5.39687   5.44449   3.35788   5.34924   0.00000   2.54000     17
RPP 1942   0.10160   0.14922   0.10160   3.35788   0.00000   2.54000     17
RPP 1943   0.10160   0.14922   3.35788   5.34924   0.00000   2.54000     17
RPP 1944   5.31051   5.31559   4.62788   5.26288   2.54000   5.16128     17
RPP 1945   5.31051   5.31559   0.18288   3.35788   2.54000   5.16128     17
RPP 1946   5.31051   5.31559   3.35788   4.62788   2.54000   5.16128     17
RPP 1947   0.00000   0.10160   0.10160   3.67538   5.16128  10.24128     17
RPP 1948   0.00000   0.10160   3.67538   5.42417   5.16128  10.24128     17
RPP 1949   5.44449   5.54609   0.10160   3.67538   5.16128  10.24128     17
RPP 1950   5.44449   5.54609   3.67538   5.42417   5.16128  10.24128     17
RPP 1951   0.14922   0.23050   0.18288   3.67538   5.16128  10.24128     17
RPP 1952   0.14922   0.23050   3.67538   5.34924   5.16128  10.24128     17
RPP 1953   5.31559   5.39687   0.18288   3.67538   5.16128  10.24128     17
RPP 1954   5.31559   5.39687   3.67538   5.34924   5.16128  10.24128     17
RPP 1955   0.23050   5.31051   4.62788   4.94538   5.16128  10.24128     17
RPP 1956   0.23050   5.31051   0.18288   1.77038   5.16128  10.24128     17
RPP 1957   0.23050   5.31051   1.77038   3.67538   5.16128  10.24128     17
RPP 1958   0.23050   5.31051   3.67538   3.99288   5.16128  10.24128     17
RPP 1959   0.23050   5.31051   3.99288   4.31038   5.16128  10.24128     17
RPP 1960   0.23050   5.31051   4.31038   4.62788   5.16128  10.24128     17
RPP 1961   0.23050   5.31051   4.94538   5.26288   5.16128  10.24128     17
RPP 1962   0.10160   0.14922   0.10160   3.67538   5.16128  10.24128     17
RPP 1963   0.10160   0.14922   3.67538   5.34924   5.16128  10.24128     17
RPP 1964   5.39687   5.44449   0.10160   3.67538   5.16128  10.24128     17
RPP 1965   5.39687   5.44449   3.67538   5.34924   5.16128  10.24128     17
RPP 1966   5.31051   5.31559   0.18288   3.67538   5.16128  10.24128     17
RPP 1967   5.31051   5.31559   3.67538   4.62788   5.16128  10.24128     17
RPP 1968   5.31051   5.31559   4.62788   5.26288   5.16128  10.24128     17
RPP 1969   0.00000   3.08801   0.00000   0.10160   0.00000   2.54000     17
RPP 1970   3.08801   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 1971   0.00000   3.08801   5.42417   5.52577   0.00000   2.54000     17
RPP 1972   3.08801   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 1973   0.00000   3.08801   0.00000   0.10160   2.54000   5.16128     17
RPP 1974   3.08801   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 1975   0.00000   3.08801   5.42417   5.52577   2.54000   5.16128     17
RPP 1976   3.08801   5.54609   5.42417   5.52577   2.54000   5.16128     17
RPP 1977   0.14922   3.08801   0.10160   5.34924   0.00000   0.08128     17
RPP 1978   3.08801   5.39687   0.10160   5.34924   0.00000   0.08128     17
RPP 1979   0.14922   3.08801   0.10160   0.18288   0.08128   5.16128     17
RPP 1980   3.08801   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 1981   0.23050   3.08801   0.18288   5.26288   0.08128   5.16128     17
RPP 1982   0.10160   3.08801   5.34924   5.42417   0.00000   5.16128     17
RPP 1983   3.08801   5.44449   5.34924   5.42417   0.00000   5.16128     17
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RPP 1984   0.23050   3.08801   5.26288   5.34924   0.08128   5.16128     17
RPP 1985   3.08801   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 1986   0.00000   3.40551   0.00000   0.10160   5.16128  10.24128     17
RPP 1987   3.40551   5.54609   0.00000   0.10160   5.16128  10.24128     17
RPP 1988   0.00000   3.40551   5.42417   5.52577   5.16128  10.24128     17
RPP 1989   3.40551   5.54609   5.42417   5.52577   5.16128  10.24128     17
RPP 1990   0.14922   3.40551   0.10160   0.18288   5.16128  10.24128     17
RPP 1991   3.40551   5.39687   0.10160   0.18288   5.16128  10.24128     17
RPP 1992   3.40551   3.72301   0.18288   5.26288   5.16128  10.24128     17
RPP 1993   0.23050   1.81801   0.18288   5.26288   5.16128  10.24128     17
RPP 1994   0.10160   3.40551   5.34924   5.42417   5.16128  10.24128     17
RPP 1995   3.40551   5.44449   5.34924   5.42417   5.16128  10.24128     17
RPP 1996   0.23050   3.40551   5.26288   5.34924   5.16128  10.24128     17
RPP 1997   3.40551   5.31559   5.26288   5.34924   5.16128  10.24128     17
RPP 1998   0.00000   2.77051   0.00000   0.10160   0.00000   2.54000     17
RPP 1999   2.77051   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 2000   0.00000   2.77051   5.42417   5.52577   0.00000   2.54000     17
RPP 2001   2.77051   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 2002   0.00000   2.77051   0.00000   0.10160   2.54000   5.16128     17
RPP 2003   2.77051   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 2004   0.00000   2.77051   5.42417   5.52577   2.54000   5.16128     17
RPP 2005   2.77051   5.54609   5.42417   5.52577   2.54000   5.16128     17
RPP 2006   0.14922   2.77051   0.10160   5.34924   0.00000   0.08128     17
RPP 2007   2.77051   5.39687   0.10160   5.34924   0.00000   0.08128     17
RPP 2008   0.14922   2.77051   0.10160   0.18288   0.08128   5.16128     17
RPP 2009   2.77051   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 2010   2.77051   5.31051   0.18288   5.26288   0.08128   5.16128     17
RPP 2011   0.10160   2.77051   5.34924   5.42417   0.00000   5.16128     17
RPP 2012   2.77051   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 2013   0.23050   2.77051   5.26288   5.34924   0.08128   5.16128     17
RPP 2014   2.77051   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 2015   0.23050   5.31051   0.18288   5.26288  22.94128  28.02128     17
RPP 2016   0.23050   5.31051   0.18288   5.26288  28.02128  28.18003     17
RPP 2017   0.23050   5.31559   0.18288   5.34924  28.18003  38.65372     17
RPP 2018   0.23050   5.31559   5.26288   5.34924  10.24128  28.18003     17
RPP 2019   5.31051   5.31559   0.18288   5.26288  10.24128  28.18003     17
RPP 2020   0.00000   0.10160   0.10160   1.77038   0.00000   2.54000     17
RPP 2021   0.00000   0.10160   1.77038   5.42417   0.00000   2.54000     17
RPP 2022   5.44449   5.54609   0.10160   1.77038   0.00000   2.54000     17
RPP 2023   5.44449   5.54609   1.77038   5.42417   0.00000   2.54000     17
RPP 2024   0.00000   0.10160   0.10160   1.77038   2.54000   5.16128     17
RPP 2025   0.00000   0.10160   1.77038   5.42417   2.54000   5.16128     17
RPP 2026   5.44449   5.54609   0.10160   1.77038   2.54000   5.16128     17
RPP 2027   5.44449   5.54609   1.77038   5.42417   2.54000   5.16128     17
RPP 2028   0.14922   2.77051   0.10160   1.77038   0.00000   0.08128     17
RPP 2029   2.77051   5.39687   0.10160   1.77038   0.00000   0.08128     17
RPP 2030   0.14922   5.39687   1.77038   5.34924   0.00000   0.08128     17
RPP 2031   0.14922   0.23050   0.18288   1.77038   0.08128   5.16128     17
RPP 2032   0.14922   0.23050   1.77038   5.34924   0.08128   5.16128     17
RPP 2033   5.31559   5.39687   0.18288   1.77038   0.08128   5.16128     17
RPP 2034   5.31559   5.39687   1.77038   5.34924   0.08128   5.16128     17
RPP 2035   0.23050   2.77051   0.50038   0.81788   0.08128   5.16128     17
RPP 2036   0.23050   2.77051   0.18288   0.50038   0.08128   5.16128     17
RPP 2037   0.23050   2.77051   0.81788   1.13538   0.08128   5.16128     17
RPP 2038   0.23050   2.77051   1.13538   1.45288   0.08128   5.16128     17
RPP 2039   0.23050   2.77051   1.45288   1.77038   0.08128   5.16128     17
RPP 2040   2.77051   5.31051   0.18288   1.77038   0.08128   5.16128     17
RPP 2041   0.23050   5.31051   3.35788   5.26288   0.08128   5.16128     17
RPP 2042   0.10160   0.14922   0.10160   1.77038   2.54000   5.16128     17
RPP 2043   0.10160   0.14922   1.77038   5.34924   2.54000   5.16128     17
RPP 2044   5.39687   5.44449   0.10160   1.77038   2.54000   5.16128     17
RPP 2045   5.39687   5.44449   1.77038   5.34924   2.54000   5.16128     17
RPP 2046   5.31051   5.31559   0.18288   1.77038   0.08128   2.54000     17
RPP 2047   5.31051   5.31559   1.77038   5.26288   0.08128   2.54000     17
RPP 2048   5.39687   5.44449   0.10160   1.77038   0.00000   2.54000     17
RPP 2049   5.39687   5.44449   1.77038   5.34924   0.00000   2.54000     17
RPP 2050   0.10160   0.14922   0.10160   1.77038   0.00000   2.54000     17
RPP 2051   0.10160   0.14922   1.77038   5.34924   0.00000   2.54000     17
RPP 2052   5.31051   5.31559   0.18288   1.77038   2.54000   5.16128     17
RPP 2053   5.31051   5.31559   1.77038   5.26288   2.54000   5.16128     17
RPP 2054   0.00000   5.54609   0.00000   0.10160   5.16128  38.73500     17
RPP 2055   0.00000   5.54609   5.42417   5.52577   5.16128  38.73500     17
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RPP 2056   0.00000   0.10160   0.10160   5.42417   5.16128  38.73500     17
RPP 2057   5.44449   5.54609   0.10160   5.42417   5.16128  38.73500     17
RPP 2058   0.14922   0.23050   0.18288   5.34924   5.16128  38.65372     17
RPP 2059   5.31559   5.39687   0.18288   5.34924   5.16128  38.65372     17
RPP 2060   0.14922   5.39687   0.10160   0.18288   5.16128  38.65372     17
RPP 2061   0.23050   5.31051   0.18288   5.26288   5.16128  17.86128     17
RPP 2062   0.10160   0.14922   0.10160   5.34924   5.16128  38.73500     17
RPP 2063   5.39687   5.44449   0.10160   5.34924   5.16128  38.73500     17
RPP 2064   0.10160   5.44449   5.34924   5.42417   5.16128  38.73500     17
RPP 2065   0.23050   5.31559   5.26288   5.34924   5.16128  38.34003     17
RPP 2066   5.31051   5.31559   0.18288   5.26288   5.16128  38.34003     17
RPP 2067   0.00000   0.10160   0.10160   2.08788   0.00000   2.54000     17
RPP 2068   0.00000   0.10160   2.08788   5.42417   0.00000   2.54000     17
RPP 2069   5.44449   5.54609   0.10160   2.08788   0.00000   2.54000     17
RPP 2070   5.44449   5.54609   2.08788   5.42417   0.00000   2.54000     17
RPP 2071   0.00000   0.10160   0.10160   2.08788   2.54000   5.16128     17
RPP 2072   0.00000   0.10160   2.08788   5.42417   2.54000   5.16128     17
RPP 2073   5.44449   5.54609   0.10160   2.08788   2.54000   5.16128     17
RPP 2074   5.44449   5.54609   2.08788   5.42417   2.54000   5.16128     17
RPP 2075   0.14922   2.77051   0.10160   2.08788   0.00000   0.08128     17
RPP 2076   2.77051   5.39687   0.10160   2.08788   0.00000   0.08128     17
RPP 2077   0.14922   5.39687   2.08788   5.34924   0.00000   0.08128     17
RPP 2078   0.14922   0.23050   0.18288   2.08788   0.08128   5.16128     17
RPP 2079   0.14922   0.23050   2.08788   5.34924   0.08128   5.16128     17
RPP 2080   5.31559   5.39687   0.18288   2.08788   0.08128   5.16128     17
RPP 2081   5.31559   5.39687   2.08788   5.34924   0.08128   5.16128     17
RPP 2082   2.77051   5.31051   0.50038   0.81788   0.08128   5.16128     17
RPP 2083   2.77051   5.31051   1.77038   2.08788   0.08128   5.16128     17
RPP 2084   0.23050   2.77051   0.18288   2.08788   0.08128   5.16128     17
RPP 2085   2.77051   5.31051   0.18288   0.50038   0.08128   5.16128     17
RPP 2086   2.77051   5.31051   0.81788   1.13538   0.08128   5.16128     17
RPP 2087   2.77051   5.31051   1.13538   1.45288   0.08128   5.16128     17
RPP 2088   2.77051   5.31051   1.45288   1.77038   0.08128   5.16128     17
RPP 2089   0.23050   5.31051   2.08788   3.67538   0.08128   5.16128     17
RPP 2090   0.10160   0.14922   0.10160   2.08788   2.54000   5.16128     17
RPP 2091   0.10160   0.14922   2.08788   5.34924   2.54000   5.16128     17
RPP 2092   5.39687   5.44449   0.10160   2.08788   2.54000   5.16128     17
RPP 2093   5.39687   5.44449   2.08788   5.34924   2.54000   5.16128     17
RPP 2094   5.31051   5.31559   0.18288   2.08788   0.08128   2.54000     17
RPP 2095   5.31051   5.31559   2.08788   5.26288   0.08128   2.54000     17
RPP 2096   5.39687   5.44449   0.10160   2.08788   0.00000   2.54000     17
RPP 2097   5.39687   5.44449   2.08788   5.34924   0.00000   2.54000     17
RPP 2098   0.10160   0.14922   0.10160   2.08788   0.00000   2.54000     17
RPP 2099   0.10160   0.14922   2.08788   5.34924   0.00000   2.54000     17
RPP 2100   5.31051   5.31559   0.18288   2.08788   2.54000   5.16128     17
RPP 2101   5.31051   5.31559   2.08788   5.26288   2.54000   5.16128     17
RPP 2102   5.44449   5.54609   0.10160   2.72288   0.00000   2.54000     17
RPP 2103   5.44449   5.54609   2.72288   5.42417   0.00000   2.54000     17
RPP 2104   5.44449   5.54609   0.10160   2.72288   2.54000   5.16128     17
RPP 2105   5.44449   5.54609   2.72288   5.42417   2.54000   5.16128     17
RPP 2106   3.72301   5.39687   0.10160   2.72288   0.00000   0.08128     17
RPP 2107   3.72301   5.39687   2.72288   5.34924   0.00000   0.08128     17
RPP 2108   5.31559   5.39687   0.18288   2.72288   0.08128   5.16128     17
RPP 2109   5.31559   5.39687   2.72288   5.34924   0.08128   5.16128     17
RPP 2110   4.04051   4.35801   0.18288   2.72288   0.08128   5.16128     17
RPP 2111   0.23050   2.77051   0.18288   5.26288   0.08128   5.16128     17
RPP 2112   2.77051   3.72301   0.18288   5.26288   0.08128   5.16128     17
RPP 2113   3.72301   4.04051   0.18288   2.72288   0.08128   5.16128     17
RPP 2114   4.35801   4.67551   0.18288   2.72288   0.08128   5.16128     17
RPP 2115   4.67551   4.99301   0.18288   2.72288   0.08128   5.16128     17
RPP 2116   4.99301   5.31051   0.18288   2.72288   0.08128   5.16128     17
RPP 2117   3.72301   5.31051   2.72288   5.26288   0.08128   5.16128     17
RPP 2118   5.39687   5.44449   0.10160   2.72288   2.54000   5.16128     17
RPP 2119   5.39687   5.44449   2.72288   5.34924   2.54000   5.16128     17
RPP 2120   5.31051   5.31559   0.18288   2.72288   0.08128   2.54000     17
RPP 2121   5.31051   5.31559   2.72288   5.26288   0.08128   2.54000     17
RPP 2122   5.39687   5.44449   0.10160   2.72288   0.00000   2.54000     17
RPP 2123   5.39687   5.44449   2.72288   5.34924   0.00000   2.54000     17
RPP 2124   5.31051   5.31559   0.18288   2.72288   2.54000   5.16128     17
RPP 2125   5.31051   5.31559   2.72288   5.26288   2.54000   5.16128     17
RPP 2126   0.00000   3.40551   0.00000   0.10160   0.00000   2.54000     17
RPP 2127   3.40551   5.54609   0.00000   0.10160   0.00000   2.54000     17
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RPP 2128   0.00000   3.40551   5.42417   5.52577   0.00000   2.54000     17
RPP 2129   3.40551   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 2130   0.00000   3.40551   0.00000   0.10160   2.54000   5.16128     17
RPP 2131   3.40551   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 2132   0.00000   3.40551   5.42417   5.52577   2.54000   5.16128     17
RPP 2133   3.40551   5.54609   5.42417   5.52577   2.54000   5.16128     17
RPP 2134   0.14922   3.40551   0.10160   5.34924   0.00000   0.08128     17
RPP 2135   3.40551   5.39687   0.10160   2.72288   0.00000   0.08128     17
RPP 2136   3.40551   5.39687   2.72288   5.34924   0.00000   0.08128     17
RPP 2137   0.14922   3.40551   0.10160   0.18288   0.08128   5.16128     17
RPP 2138   3.40551   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 2139   3.40551   3.72301   2.72288   5.26288   0.08128   5.16128     17
RPP 2140   4.04051   4.35801   2.72288   5.26288   0.08128   5.16128     17
RPP 2141   2.77051   3.40551   0.18288   5.26288   0.08128   5.16128     17
RPP 2142   3.40551   5.31051   0.18288   2.72288   0.08128   5.16128     17
RPP 2143   3.72301   4.04051   2.72288   5.26288   0.08128   5.16128     17
RPP 2144   4.35801   4.67551   2.72288   5.26288   0.08128   5.16128     17
RPP 2145   4.67551   4.99301   2.72288   5.26288   0.08128   5.16128     17
RPP 2146   4.99301   5.31051   2.72288   5.26288   0.08128   5.16128     17
RPP 2147   0.10160   3.40551   5.34924   5.42417   0.00000   5.16128     17
RPP 2148   3.40551   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 2149   0.23050   3.40551   5.26288   5.34924   0.08128   5.16128     17
RPP 2150   3.40551   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 2151   0.14922   2.77051   3.67538   5.34924   0.00000   0.08128     17
RPP 2152   2.77051   5.39687   3.67538   5.34924   0.00000   0.08128     17
RPP 2153   2.77051   5.31051   3.99288   4.31038   0.08128   5.16128     17
RPP 2154   0.23050   5.31051   0.18288   2.72288   0.08128   5.16128     17
RPP 2155   0.23050   5.31051   2.72288   3.67538   0.08128   5.16128     17
RPP 2156   0.23050   2.77051   3.67538   5.26288   0.08128   5.16128     17
RPP 2157   2.77051   5.31051   3.67538   3.99288   0.08128   5.16128     17
RPP 2158   2.77051   5.31051   4.31038   4.62788   0.08128   5.16128     17
RPP 2159   2.77051   5.31051   4.62788   4.94538   0.08128   5.16128     17
RPP 2160   2.77051   5.31051   4.94538   5.26288   0.08128   5.16128     17
RPP 2161   0.14922   2.77051   3.35788   5.34924   0.00000   0.08128     17
RPP 2162   2.77051   5.39687   3.35788   5.34924   0.00000   0.08128     17
RPP 2163   0.23050   2.77051   3.35788   3.67538   0.08128   5.16128     17
RPP 2164   0.23050   2.77051   3.99288   4.31038   0.08128   5.16128     17
RPP 2165   0.23050   5.31051   2.72288   3.35788   0.08128   5.16128     17
RPP 2166   0.23050   2.77051   3.67538   3.99288   0.08128   5.16128     17
RPP 2167   0.23050   2.77051   4.31038   4.62788   0.08128   5.16128     17
RPP 2168   0.23050   2.77051   4.62788   4.94538   0.08128   5.16128     17
RPP 2169   0.23050   2.77051   4.94538   5.26288   0.08128   5.16128     17
RPP 2170   2.77051   5.31051   3.35788   5.26288   0.08128   5.16128     17
RPP 2171   5.31051   5.31559   3.35788   5.26288   2.54000   5.16128     17
RPP 2172   0.00000   0.10160   0.10160   2.72288   0.00000   2.54000     17
RPP 2173   0.00000   0.10160   2.72288   5.42417   0.00000   2.54000     17
RPP 2174   0.00000   0.10160   0.10160   2.72288   2.54000   5.16128     17
RPP 2175   0.00000   0.10160   2.72288   5.42417   2.54000   5.16128     17
RPP 2176   0.14922   1.81801   0.10160   2.72288   0.00000   0.08128     17
RPP 2177   0.14922   1.81801   2.72288   5.34924   0.00000   0.08128     17
RPP 2178   0.14922   0.23050   0.18288   2.72288   0.08128   5.16128     17
RPP 2179   0.14922   0.23050   2.72288   5.34924   0.08128   5.16128     17
RPP 2180   0.54800   0.86550   2.72288   5.26288   0.08128   5.16128     17
RPP 2181   0.23050   1.81801   0.18288   2.72288   0.08128   5.16128     17
RPP 2182   0.23050   0.54800   2.72288   5.26288   0.08128   5.16128     17
RPP 2183   0.86550   1.18301   2.72288   5.26288   0.08128   5.16128     17
RPP 2184   1.18301   1.50050   2.72288   5.26288   0.08128   5.16128     17
RPP 2185   1.50050   1.81801   2.72288   5.26288   0.08128   5.16128     17
RPP 2186   1.81801   2.77051   0.18288   5.26288   0.08128   5.16128     17
RPP 2187   0.10160   0.14922   0.10160   2.72288   2.54000   5.16128     17
RPP 2188   0.10160   0.14922   2.72288   5.34924   2.54000   5.16128     17
RPP 2189   5.31051   5.31559   0.18288   5.26288   0.08128   2.54000     17
RPP 2190   0.10160   0.14922   0.10160   2.72288   0.00000   2.54000     17
RPP 2191   0.10160   0.14922   2.72288   5.34924   0.00000   2.54000     17
RPP 2192   5.31051   5.31559   0.18288   5.26288   2.54000   5.16128     17
RPP 2193   0.00000   2.13551   0.00000   0.10160   0.00000   2.54000     17
RPP 2194   2.13551   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 2195   0.00000   2.13551   5.42417   5.52577   0.00000   2.54000     17
RPP 2196   2.13551   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 2197   0.00000   2.13551   0.00000   0.10160   2.54000   5.16128     17
RPP 2198   2.13551   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 2199   0.00000   2.13551   5.42417   5.52577   2.54000   5.16128     17
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RPP 2200	2.13551	5.54609	5.42417	5.52577	2.54000	5.16128	17
RPP 2201	0.14922	2.13551	0.10160	2.72288	0.00000	0.08128	17
RPP 2202	0.14922	2.13551	2.72288	5.34924	0.00000	0.08128	17
RPP 2203	2.13551	5.39687	0.10160	5.34924	0.00000	0.08128	17
RPP 2204	0.14922	2.13551	0.10160	0.18288	0.08128	5.16128	17
RPP 2205	2.13551	5.39687	0.10160	0.18288	0.08128	5.16128	17
RPP 2206	0.54800	0.86550	0.18288	2.72288	0.08128	5.16128	17
RPP 2207	1.81801	2.13551	0.18288	2.72288	0.08128	5.16128	17
RPP 2208	0.23050	0.54800	0.18288	2.72288	0.08128	5.16128	17
RPP 2209	0.86550	1.18301	0.18288	2.72288	0.08128	5.16128	17
RPP 2210	1.18301	1.50050	0.18288	2.72288	0.08128	5.16128	17
RPP 2211	1.50050	1.81801	0.18288	2.72288	0.08128	5.16128	17
RPP 2212	0.23050	2.13551	2.72288	5.26288	0.08128	5.16128	17
RPP 2213	2.13551	2.77051	0.18288	5.26288	0.08128	5.16128	17
RPP 2214	0.10160	2.13551	5.34924	5.42417	0.00000	5.16128	17
RPP 2215	2.13551	5.44449	5.34924	5.42417	0.00000	5.16128	17
RPP 2216	0.23050	2.13551	5.26288	5.34924	0.08128	5.16128	17
RPP 2217	2.13551	5.31559	5.26288	5.34924	0.08128	5.16128	17
RPP 2218	0.14922	2.77051	0.10160	2.72288	0.00000	0.08128	17
RPP 2219	0.14922	2.77051	2.72288	5.34924	0.00000	0.08128	17
RPP 2220	2.13551	2.45301	0.18288	2.72288	0.08128	5.16128	17
RPP 2221	2.45301	2.77051	0.18288	2.72288	0.08128	5.16128	17
RPP 2222	0.23050	2.77051	2.72288	5.26288	0.08128	5.16128	17
RPP 2223	2.77051	5.39687	0.10160	2.72288	0.00000	0.08128	17
RPP 2224	2.77051	5.39687	2.72288	5.34924	0.00000	0.08128	17
RPP 2225	3.40551	3.72301	0.18288	2.72288	0.08128	5.16128	17
RPP 2226	2.77051	3.08801	0.18288	2.72288	0.08128	5.16128	17
RPP 2227	3.08801	3.40551	0.18288	2.72288	0.08128	5.16128	17
RPP 2228	2.77051	5.31051	2.72288	5.26288	0.08128	5.16128	17
RPP 2229	2.77051	5.31051	0.18288	2.72288	0.08128	5.16128	17
RPP 2230	2.77051	3.08801	2.72288	5.26288	0.08128	5.16128	17
RPP 2231	3.08801	3.40551	2.72288	5.26288	0.08128	5.16128	17
RPP 2232	0.23050	2.77051	0.18288	2.72288	0.08128	5.16128	17
RPP 2233	1.81801	2.13551	2.72288	5.26288	0.08128	5.16128	17
RPP 2234	2.13551	2.45301	2.72288	5.26288	0.08128	5.16128	17
RPP 2235	2.45301	2.77051	2.72288	5.26288	0.08128	5.16128	17
RPP 2236	1.82309	2.14059	0.18288	5.26288	0.08128	22.94128	17
RPP 2237	4.99809	5.31559	0.18288	5.26288	0.08128	22.94128	17
RPP 2238	4.68059	4.99809	0.18288	5.26288	0.08128	22.94128	17
RPP 2239	4.36309	4.68059	0.18288	5.26288	0.08128	22.94128	17
RPP 2240	4.04558	4.36309	0.18288	5.26288	0.08128	22.94128	17
RPP 2241	3.72809	4.04558	0.18288	5.26288	0.08128	22.94128	17
RPP 2242	3.41059	3.72809	0.18288	5.26288	0.08128	22.94128	17
RPP 2243	3.09309	3.41059	0.18288	5.26288	0.08128	22.94128	17
RPP 2244	2.77559	3.09309	0.18288	5.26288	0.08128	22.94128	17
RPP 2245	2.45809	2.77559	0.18288	5.26288	0.08128	22.94128	17
RPP 2246	2.14059	2.45809	0.18288	5.26288	0.08128	22.94128	17
RPP 2247	1.50558	1.82309	0.18288	5.26288	0.08128	22.94128	17
RPP 2248	1.18809	1.50558	0.18288	5.26288	0.08128	22.94128	17
RPP 2249	0.87059	1.18809	0.18288	5.26288	0.08128	22.94128	17
RPP 2250	0.55309	0.87059	0.18288	5.26288	0.08128	22.94128	17
RPP 2251	0.23558	0.55309	0.18288	5.26288	0.08128	22.94128	17
RPP 2252	0.23050	0.23558	0.18288	5.26288	0.08128	22.94128	17
RPP 2253	0.23558	5.31559	0.18288	5.26288	22.94128	38.18128	17
RPP 2254	0.23558	5.31559	0.18288	5.26288	38.18128	38.34003	17
RPP 2255	0.23050	0.23558	0.18288	5.26288	22.94128	38.34003	17
RPP 2256	0.23558	5.31559	0.18288	5.26288	38.81628	51.51628	17
RPP 2257	0.23558	5.31559	0.18288	5.26288	51.51628	56.59628	17
RPP 2258	0.23558	5.31559	2.72288	5.26288	61.67628	63.89878	17
RPP 2259	2.77559	5.31559	0.18288	2.72288	56.59628	68.97878	17
RPP 2260	0.23558	2.77559	0.18288	2.72288	56.59628	68.97878	17
RPP 2261	0.23558	5.31559	2.72288	5.26288	56.59628	61.67628	17
RPP 2262	0.23558	5.31559	2.72288	5.26288	63.89878	68.97878	17
RPP 2263	0.23050	0.23558	0.18288	5.26288	38.81628	61.67628	17
RPP 2264	0.23050	0.23558	0.18288	2.72288	61.67628	68.97878	17
RPP 2265	0.23050	0.23558	2.72288	5.26288	61.67628	68.97878	17
RPP 2266	2.77559	5.31559	0.18288	2.72288	68.97878	71.83628	17
RPP 2267	0.23558	2.77559	0.18288	2.72288	68.97878	71.83628	17
RPP 2268	0.23050	0.23558	0.18288	2.72288	68.97878	71.83628	17
RPP 2269	0.23558	5.31559	0.18288	5.26288	71.83628	71.99503	17
RPP 2270	0.23050	0.23558	0.18288	5.26288	71.83628	71.99503	17
RPP 2271	0.23558	5.31559	0.18288	2.72288	61.67628	63.89878	17

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RPP 2272   2.77559   5.31559   2.72288   5.26288  56.59628  68.97878     17
RPP 2273   0.23558   2.77559   2.72288   5.26288  56.59628  68.97878     17
RPP 2274   0.23558   5.31559   0.18288   2.72288  56.59628  61.67628     17
RPP 2275   0.23558   5.31559   0.18288   2.72288  63.89878  68.97878     17
RPP 2276   2.77559   5.31559   2.72288   5.26288  68.97878  71.83628     17
RPP 2277   0.23558   2.77559   2.72288   5.26288  68.97878  71.83628     17
RPP 2278   0.23050   0.23558   2.72288   5.26288  68.97878  71.83628     17
RPP 2279   2.77559   5.31559   0.18288   5.26288  61.67628  63.89878     17
RPP 2280   2.77559   5.31559   0.18288   5.26288  56.59628  61.67628     17
RPP 2281   2.77559   5.31559   0.18288   5.26288  63.89878  68.97878     17
RPP 2282   0.23050   0.23558   0.18288   5.26288  61.67628  63.89878     17
RPP 2283   0.23050   0.23558   0.18288   5.26288  63.89878  68.97878     17
RPP 2284   0.00000   2.77559   0.00000   0.10160  68.97878  71.83628     17
RPP 2285   2.77559   5.54609   0.00000   0.10160  68.97878  71.83628     17
RPP 2286   0.00000   2.77559   5.42417   5.52577  68.97878  71.83628     17
RPP 2287   2.77559   5.54609   5.42417   5.52577  68.97878  71.83628     17
RPP 2288   0.14922   2.77559   0.10160   0.18288  68.97878  71.83628     17
RPP 2289   2.77559   5.39687   0.10160   0.18288  68.97878  71.83628     17
RPP 2290   0.10160   2.77559   5.34924   5.42417  68.97878  71.83628     17
RPP 2291   2.77559   5.44449   5.34924   5.42417  68.97878  71.83628     17
RPP 2292   0.23050   2.77559   5.26288   5.34924  68.97878  71.83628     17
RPP 2293   2.77559   5.31559   5.26288   5.34924  68.97878  71.83628     17
RPP 2294   0.23050   0.23558   0.18288   5.26288  68.97878  71.83628     17
RPP 2295   2.77559   5.31559   0.18288   5.26288  68.97878  71.83628     17
RPP 2296   0.23558   2.77559   0.18288   5.26288  61.67628  63.89878     17
RPP 2297   0.23558   2.77559   0.18288   5.26288  56.59628  61.67628     17
RPP 2298   0.23558   2.77559   0.18288   5.26288  63.89878  68.97878     17
RPP 2299   0.23050   0.23558   0.18288   5.26288  38.81628  63.89878     17
RPP 2300   0.23050   2.77559   0.18288   5.26288  68.97878  71.83628     17
RPP 2301   1.82309   2.14059   0.18288   5.26288   0.08128  15.32128     17
RPP 2302   1.82309   2.14059   0.18288   5.26288  15.32128  20.40128     17
RPP 2303   4.99809   5.31559   0.18288   5.26288   0.08128  15.32128     17
RPP 2304   4.99809   5.31559   0.18288   5.26288  15.32128  20.40128     17
RPP 2305   4.68059   4.99809   0.18288   5.26288   0.08128  15.32128     17
RPP 2306   4.68059   4.99809   0.18288   5.26288  15.32128  20.40128     17
RPP 2307   4.36309   4.68059   0.18288   5.26288   0.08128  15.32128     17
RPP 2308   4.36309   4.68059   0.18288   5.26288  15.32128  20.40128     17
RPP 2309   4.04558   4.36309   0.18288   5.26288   0.08128  15.32128     17
RPP 2310   4.04558   4.36309   0.18288   5.26288  15.32128  20.40128     17
RPP 2311   3.72809   4.04558   0.18288   5.26288   0.08128  15.32128     17
RPP 2312   3.72809   4.04558   0.18288   5.26288  15.32128  20.40128     17
RPP 2313   3.41059   3.72809   0.18288   5.26288   0.08128  15.32128     17
RPP 2314   3.41059   3.72809   0.18288   5.26288  15.32128  20.40128     17
RPP 2315   3.09309   3.41059   0.18288   5.26288   0.08128  15.32128     17
RPP 2316   3.09309   3.41059   0.18288   5.26288  15.32128  20.40128     17
RPP 2317   2.77559   3.09309   0.18288   5.26288   0.08128  15.32128     17
RPP 2318   2.77559   3.09309   0.18288   5.26288  15.32128  20.40128     17
RPP 2319   2.45809   2.77559   0.18288   5.26288   0.08128  15.32128     17
RPP 2320   2.45809   2.77559   0.18288   5.26288  15.32128  20.40128     17
RPP 2321   2.14059   2.45809   0.18288   5.26288   0.08128  15.32128     17
RPP 2322   2.14059   2.45809   0.18288   5.26288  15.32128  20.40128     17
RPP 2323   1.50558   1.82309   0.18288   5.26288   0.08128  15.32128     17
RPP 2324   1.50558   1.82309   0.18288   5.26288  15.32128  20.40128     17
RPP 2325   1.18809   1.50558   0.18288   5.26288   0.08128  15.32128     17
RPP 2326   1.18809   1.50558   0.18288   5.26288  15.32128  20.40128     17
RPP 2327   0.87059   1.18809   0.18288   5.26288   0.08128  15.32128     17
RPP 2328   0.87059   1.18809   0.18288   5.26288  15.32128  20.40128     17
RPP 2329   0.55309   0.87059   0.18288   5.26288   0.08128  15.32128     17
RPP 2330   0.55309   0.87059   0.18288   5.26288  15.32128  20.40128     17
RPP 2331   0.23558   0.55309   0.18288   5.26288   0.08128  15.32128     17
RPP 2332   0.23558   0.55309   0.18288   5.26288  15.32128  20.40128     17
RPP 2333   0.23050   0.23558   0.18288   5.26288   0.08128  20.40128     17
RPP 2334   0.23558   5.31559   1.13538   1.45288  20.40128  21.67128     17
RPP 2335   0.23558   5.31559   1.77038   2.08788  20.40128  21.67128     17
RPP 2336   0.23558   5.31559   2.40538   5.26288  20.40128  21.67128     17
RPP 2337   0.23558   5.31559   0.18288   0.50038  20.40128  21.67128     17
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RPP 2339   0.23558   5.31559   0.81788   1.13538  20.40128  21.67128     17
RPP 2340   0.23558   5.31559   1.45288   1.77038  20.40128  21.67128     17
RPP 2341   0.23558   5.31559   2.08788   2.40538  20.40128  21.67128     17
RPP 2342   0.23050   0.23558   0.18288   2.40538  20.40128  21.67128     17
RPP 2343   0.23050   0.23558   2.40538   5.26288  20.40128  21.67128     17
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RPP 2344   0.23558   5.31559   2.40538   5.26288  21.67128  22.94128     17
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RPP 2346   0.23558   5.31559   0.50038   0.81788  21.67128  22.94128     17
RPP 2347   0.23558   5.31559   0.81788   1.13538  21.67128  22.94128     17
RPP 2348   0.23558   5.31559   1.13538   1.45288  21.67128  22.94128     17
RPP 2349   0.23558   5.31559   1.45288   1.77038  21.67128  22.94128     17
RPP 2350   0.23558   5.31559   1.77038   2.08788  21.67128  22.94128     17
RPP 2351   0.23558   5.31559   2.08788   2.40538  21.67128  22.94128     17
RPP 2352   0.23050   0.23558   0.18288   5.26288  21.67128  22.94128     17
RPP 2353   0.23558   5.31559   0.18288   5.26288  61.67628  63.89878     17
RPP 2354   0.23050   0.23558   0.18288   5.26288  38.81628  68.97878     17
RPP 2355   0.23558   5.31559   0.18288   5.26288  68.97878  69.13753     17
RPP 2356   0.23050   0.23558   0.18288   5.26288  68.97878  69.13753     17
RPP 2357   0.23558   5.31559   2.72288   5.26288  20.40128  21.67128     17
RPP 2358   0.23558   5.31559   2.40538   2.72288  20.40128  21.67128     17
RPP 2359   0.23050   0.23558   2.72288   5.26288  20.40128  21.67128     17
RPP 2360   0.23050   0.23558   0.18288   2.72288  20.40128  21.67128     17
RPP 2361   0.23558   5.31559   2.72288   5.26288  21.67128  22.94128     17
RPP 2362   0.23558   5.31559   2.40538   2.72288  21.67128  22.94128     17
RPP 2363   0.23050   0.23558   0.18288   2.72288  21.67128  22.94128     17
RPP 2364   0.23050   0.23558   2.72288   5.26288  21.67128  22.94128     17
RPP 2365   0.23558   5.31559   0.18288   3.04038  20.40128  21.67128     17
RPP 2366   0.23558   5.31559   3.35788   3.67538  20.40128  21.67128     17
RPP 2367   0.23558   5.31559   3.99288   4.31038  20.40128  21.67128     17
RPP 2368   0.23558   5.31559   3.04038   3.35788  20.40128  21.67128     17
RPP 2369   0.23558   5.31559   3.67538   3.99288  20.40128  21.67128     17
RPP 2370   0.23558   5.31559   4.31038   4.62788  20.40128  21.67128     17
RPP 2371   0.23558   5.31559   4.62788   4.94538  20.40128  21.67128     17
RPP 2372   0.23558   5.31559   4.94538   5.26288  20.40128  21.67128     17
RPP 2373   0.23050   0.23558   0.18288   3.04038  20.40128  21.67128     17
RPP 2374   0.23050   0.23558   3.04038   5.26288  20.40128  21.67128     17
RPP 2375   0.23558   5.31559   0.18288   3.04038  21.67128  22.94128     17
RPP 2376   0.23558   5.31559   3.04038   3.35788  21.67128  22.94128     17
RPP 2377   0.23558   5.31559   3.35788   3.67538  21.67128  22.94128     17
RPP 2378   0.23558   5.31559   3.67538   3.99288  21.67128  22.94128     17
RPP 2379   0.23558   5.31559   3.99288   4.31038  21.67128  22.94128     17
RPP 2380   0.23558   5.31559   4.31038   4.62788  21.67128  22.94128     17
RPP 2381   0.23558   5.31559   4.62788   4.94538  21.67128  22.94128     17
RPP 2382   0.23558   5.31559   4.94538   5.26288  21.67128  22.94128     17
RPP 2383   0.23050   0.23558   3.04038   5.26288  21.67128  22.94128     17
RPP 2384   0.23050   0.23558   0.18288   3.04038  21.67128  22.94128     17
RPP 2385   0.23558   5.31559   0.18288   2.72288  20.40128  21.67128     17
RPP 2386   0.23558   5.31559   2.72288   3.04038  20.40128  21.67128     17
RPP 2387   0.23558   5.31559   0.18288   2.72288  21.67128  22.94128     17
RPP 2388   0.23558   5.31559   2.72288   3.04038  21.67128  22.94128     17
RPP 2389   1.82309   2.14059   0.18288   5.26288   7.70128  12.78128     17
RPP 2390   4.99809   5.31559   0.18288   5.26288   0.08128   7.70128     17
RPP 2391   4.99809   5.31559   0.18288   5.26288   7.70128  12.78128     17
RPP 2392   4.99809   5.31559   0.18288   5.26288  12.78128  20.40128     17
RPP 2393   4.68059   4.99809   0.18288   5.26288   0.08128   7.70128     17
RPP 2394   4.68059   4.99809   0.18288   5.26288   7.70128  12.78128     17
RPP 2395   4.68059   4.99809   0.18288   5.26288  12.78128  20.40128     17
RPP 2396   4.36309   4.68059   0.18288   5.26288   0.08128   7.70128     17
RPP 2397   4.36309   4.68059   0.18288   5.26288   7.70128  12.78128     17
RPP 2398   4.36309   4.68059   0.18288   5.26288  12.78128  20.40128     17
RPP 2399   4.04558   4.36309   0.18288   5.26288   0.08128   7.70128     17
RPP 2400   4.04558   4.36309   0.18288   5.26288   7.70128  12.78128     17
RPP 2401   4.04558   4.36309   0.18288   5.26288  12.78128  20.40128     17
RPP 2402   3.72809   4.04558   0.18288   5.26288   0.08128   7.70128     17
RPP 2403   3.72809   4.04558   0.18288   5.26288   7.70128  12.78128     17
RPP 2404   3.72809   4.04558   0.18288   5.26288  12.78128  20.40128     17
RPP 2405   3.41059   3.72809   0.18288   5.26288   0.08128   7.70128     17
RPP 2406   3.41059   3.72809   0.18288   5.26288   7.70128  12.78128     17
RPP 2407   3.41059   3.72809   0.18288   5.26288  12.78128  20.40128     17
RPP 2408   3.09309   3.41059   0.18288   5.26288   0.08128   7.70128     17
RPP 2409   3.09309   3.41059   0.18288   5.26288   7.70128  12.78128     17
RPP 2410   3.09309   3.41059   0.18288   5.26288  12.78128  20.40128     17
RPP 2411   2.77559   3.09309   0.18288   5.26288   0.08128   7.70128     17
RPP 2412   2.77559   3.09309   0.18288   5.26288   7.70128  12.78128     17
RPP 2413   2.77559   3.09309   0.18288   5.26288  12.78128  20.40128     17
RPP 2414   2.45809   2.77559   0.18288   5.26288   0.08128   7.70128     17
RPP 2415   2.45809   2.77559   0.18288   5.26288   7.70128  12.78128     17
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RPP 2416	2.45809	2.77559	0.18288	5.26288	12.78128	20.40128	17
RPP 2417	2.14059	2.45809	0.18288	5.26288	0.08128	7.70128	17
RPP 2418	2.14059	2.45809	0.18288	5.26288	7.70128	12.78128	17
RPP 2419	2.14059	2.45809	0.18288	5.26288	12.78128	20.40128	17
RPP 2420	1.82309	2.14059	0.18288	5.26288	0.08128	7.70128	17
RPP 2421	1.82309	2.14059	0.18288	5.26288	12.78128	20.40128	17
RPP 2422	1.50558	1.82309	0.18288	5.26288	0.08128	7.70128	17
RPP 2423	1.50558	1.82309	0.18288	5.26288	7.70128	12.78128	17
RPP 2424	1.50558	1.82309	0.18288	5.26288	12.78128	20.40128	17
RPP 2425	1.18809	1.50558	0.18288	5.26288	0.08128	7.70128	17
RPP 2426	1.18809	1.50558	0.18288	5.26288	7.70128	12.78128	17
RPP 2427	1.18809	1.50558	0.18288	5.26288	12.78128	20.40128	17
RPP 2428	0.87059	1.18809	0.18288	5.26288	0.08128	7.70128	17
RPP 2429	0.87059	1.18809	0.18288	5.26288	7.70128	12.78128	17
RPP 2430	0.87059	1.18809	0.18288	5.26288	12.78128	20.40128	17
RPP 2431	0.55309	0.87059	0.18288	5.26288	0.08128	7.70128	17
RPP 2432	0.55309	0.87059	0.18288	5.26288	7.70128	12.78128	17
RPP 2433	0.55309	0.87059	0.18288	5.26288	12.78128	20.40128	17
RPP 2434	0.23558	0.55309	0.18288	5.26288	0.08128	7.70128	17
RPP 2435	0.23558	0.55309	0.18288	5.26288	7.70128	12.78128	17
RPP 2436	0.23558	0.55309	0.18288	5.26288	12.78128	20.40128	17
RPP 2437	0.23558	5.31559	0.18288	5.26288	20.40128	33.10128	17
RPP 2438	0.23558	5.31559	0.18288	5.26288	33.10128	38.18128	17
RPP 2439	0.23050	0.23558	0.18288	5.26288	20.40128	38.34003	17
RPP 2440	0.23558	5.31559	0.18288	5.26288	56.59628	57.86628	17
RPP 2441	0.23558	2.77559	0.18288	5.26288	57.86628	58.50128	17
RPP 2442	2.77559	5.31559	0.18288	2.72288	57.86628	68.02628	17
RPP 2443	2.77559	5.31559	2.72288	5.26288	57.86628	68.02628	17
RPP 2444	0.23558	2.77559	0.18288	2.72288	58.50128	68.02628	17
RPP 2445	0.23558	2.77559	2.72288	5.26288	58.50128	68.02628	17
RPP 2446	0.23050	0.23558	0.18288	5.26288	38.81628	68.02628	17
RPP 2447	0.00000	2.77559	0.00000	0.10160	68.02628	68.66128	17
RPP 2448	2.77559	5.54609	0.00000	0.10160	68.02628	68.66128	17
RPP 2449	0.00000	2.77559	5.42417	5.52577	68.02628	68.66128	17
RPP 2450	2.77559	5.54609	5.42417	5.52577	68.02628	68.66128	17
RPP 2451	0.14922	2.77559	0.10160	0.18288	68.02628	68.66128	17
RPP 2452	2.77559	5.39687	0.10160	0.18288	68.02628	68.66128	17
RPP 2453	0.23558	2.77559	0.18288	2.72288	68.02628	68.66128	17
RPP 2454	0.23558	2.77559	2.72288	5.26288	68.02628	68.66128	17
RPP 2455	0.10160	2.77559	5.34924	5.42417	68.02628	68.66128	17
RPP 2456	2.77559	5.44449	5.34924	5.42417	68.02628	68.66128	17
RPP 2457	0.23050	2.77559	5.26288	5.34924	68.02628	68.66128	17
RPP 2458	2.77559	5.31559	5.26288	5.34924	68.02628	68.66128	17
RPP 2459	0.23050	0.23558	0.18288	5.26288	68.02628	68.66128	17
RPP 2460	2.77559	5.31559	0.18288	5.26288	68.02628	68.66128	17
RPP 2461	0.23558	5.31559	0.18288	5.26288	68.66128	68.82003	17
RPP 2462	0.23050	0.23558	0.18288	5.26288	68.66128	68.82003	17
RPP 2463	2.77559	5.31559	0.18288	5.26288	57.86628	58.50128	17
RPP 2464	2.77559	5.31559	0.18288	2.72288	58.50128	68.02628	17
RPP 2465	2.77559	5.31559	2.72288	5.26288	58.50128	68.02628	17
RPP 2466	0.23558	2.77559	0.18288	2.72288	57.86628	68.02628	17
RPP 2467	0.23558	2.77559	2.72288	5.26288	57.86628	68.02628	17
RPP 2468	0.23050	0.23558	0.18288	5.26288	58.50128	68.02628	17
RPP 2469	0.23050	0.23558	0.18288	5.26288	38.81628	58.50128	17
RPP 2470	2.77559	5.31559	0.18288	2.72288	68.02628	68.66128	17
RPP 2471	2.77559	5.31559	2.72288	5.26288	68.02628	68.66128	17
RPP 2472	0.23050	2.77559	0.18288	5.26288	68.02628	68.66128	17
RPP 2473	0.23558	5.31559	0.18288	2.72288	57.86628	58.50128	17
RPP 2474	0.23050	0.23558	0.18288	2.72288	57.86628	68.02628	17
RPP 2475	0.23050	0.23558	2.72288	5.26288	57.86628	68.02628	17
RPP 2476	0.23050	0.23558	0.18288	5.26288	38.81628	57.86628	17
RPP 2477	0.23050	0.23558	0.18288	2.72288	68.02628	68.66128	17
RPP 2478	0.23558	5.31559	2.72288	5.26288	57.86628	58.50128	17
RPP 2479	0.23050	0.23558	2.72288	5.26288	68.02628	68.66128	17
RPP 2480	1.82309	2.14059	0.18288	5.26288	7.70128	17.86128	17
RPP 2481	4.99809	5.31559	0.18288	5.26288	7.70128	17.86128	17
RPP 2482	4.68059	4.99809	0.18288	5.26288	7.70128	17.86128	17
RPP 2483	4.36309	4.68059	0.18288	5.26288	7.70128	17.86128	17
RPP 2484	4.04558	4.36309	0.18288	5.26288	7.70128	17.86128	17
RPP 2485	3.72809	4.04558	0.18288	5.26288	7.70128	17.86128	17
RPP 2486	3.41059	3.72809	0.18288	5.26288	7.70128	17.86128	17
RPP 2487	3.09309	3.41059	0.18288	5.26288	7.70128	17.86128	17

RPP 2488	2.77559	3.09309	0.18288	5.26288	7.70128	17.86128	17
RPP 2489	2.45809	2.77559	0.18288	5.26288	7.70128	17.86128	17
RPP 2490	2.14059	2.45809	0.18288	5.26288	7.70128	17.86128	17
RPP 2491	1.50558	1.82309	0.18288	5.26288	7.70128	17.86128	17
RPP 2492	1.18809	1.50558	0.18288	5.26288	7.70128	17.86128	17
RPP 2493	0.87059	1.18809	0.18288	5.26288	7.70128	17.86128	17
RPP 2494	0.55309	0.87059	0.18288	5.26288	7.70128	17.86128	17
RPP 2495	0.23558	0.55309	0.18288	5.26288	7.70128	17.86128	17
RPP 2496	0.23050	0.23558	0.18288	5.26288	0.08128	17.86128	17
RPP 2497	0.23558	5.31559	1.77038	2.08788	17.86128	20.40128	17
RPP 2498	0.23558	5.31559	0.18288	0.50038	17.86128	20.40128	17
RPP 2499	0.23558	5.31559	0.50038	0.81788	17.86128	20.40128	17
RPP 2500	0.23558	5.31559	0.81788	1.13538	17.86128	20.40128	17
RPP 2501	0.23558	5.31559	1.13538	1.45288	17.86128	20.40128	17
RPP 2502	0.23558	5.31559	1.45288	1.77038	17.86128	20.40128	17
RPP 2503	0.23558	5.31559	2.08788	2.40538	17.86128	20.40128	17
RPP 2504	0.23558	5.31559	2.40538	2.72288	17.86128	20.40128	17
RPP 2505	0.23558	5.31559	2.72288	3.04038	17.86128	20.40128	17
RPP 2506	0.23558	5.31559	3.04038	3.35788	17.86128	20.40128	17
RPP 2507	0.23558	5.31559	3.35788	3.67538	17.86128	20.40128	17
RPP 2508	0.23558	5.31559	3.67538	5.26288	17.86128	20.40128	17
RPP 2509	0.23050	0.23558	0.18288	3.67538	17.86128	20.40128	17
RPP 2510	0.23050	0.23558	3.67538	5.26288	17.86128	20.40128	17
RPP 2511	0.23558	5.31559	0.18288	5.26288	56.59628	57.54878	17
RPP 2512	0.23558	5.31559	0.18288	2.72288	57.54878	58.18378	17
RPP 2513	2.77559	5.31559	2.72288	5.26288	57.54878	67.70878	17
RPP 2514	0.23558	2.77559	2.72288	5.26288	57.54878	67.70878	17
RPP 2515	2.77559	5.31559	0.18288	2.72288	58.18378	67.70878	17
RPP 2516	0.23558	2.77559	0.18288	2.72288	58.18378	67.70878	17
RPP 2517	0.23050	0.23558	0.18288	2.72288	57.54878	67.70878	17
RPP 2518	0.23050	0.23558	2.72288	5.26288	57.54878	67.70878	17
RPP 2519	0.23050	0.23558	0.18288	5.26288	38.81628	57.54878	17
RPP 2520	2.77559	5.31559	0.18288	2.72288	67.70878	68.34378	17
RPP 2521	0.23558	2.77559	0.18288	2.72288	67.70878	68.34378	17
RPP 2522	0.23050	0.23558	0.18288	2.72288	67.70878	68.34378	17
RPP 2523	0.23558	5.31559	0.18288	5.26288	68.34378	68.50253	17
RPP 2524	0.23050	0.23558	0.18288	5.26288	68.34378	68.50253	17
RPP 2525	0.23558	5.31559	0.18288	2.08788	17.86128	20.40128	17
RPP 2526	0.23558	5.31559	3.67538	3.99288	17.86128	20.40128	17
RPP 2527	0.23558	5.31559	3.99288	4.31038	17.86128	20.40128	17
RPP 2528	0.23558	5.31559	4.31038	4.62788	17.86128	20.40128	17
RPP 2529	0.23558	5.31559	4.62788	4.94538	17.86128	20.40128	17
RPP 2530	0.23558	5.31559	4.94538	5.26288	17.86128	20.40128	17
RPP 2531	0.23050	0.23558	0.18288	2.08788	17.86128	20.40128	17
RPP 2532	0.23050	0.23558	2.08788	5.26288	17.86128	20.40128	17
RPP 2533	0.23558	5.31559	2.72288	5.26288	57.54878	58.18378	17
RPP 2534	2.77559	5.31559	0.18288	2.72288	57.54878	67.70878	17
RPP 2535	0.23558	2.77559	0.18288	2.72288	57.54878	67.70878	17
RPP 2536	2.77559	5.31559	2.72288	5.26288	58.18378	67.70878	17
RPP 2537	0.23558	2.77559	2.72288	5.26288	58.18378	67.70878	17
RPP 2538	2.77559	5.31559	2.72288	5.26288	67.70878	68.34378	17
RPP 2539	0.23558	2.77559	2.72288	5.26288	67.70878	68.34378	17
RPP 2540	0.23050	0.23558	2.72288	5.26288	67.70878	68.34378	17
RPP 2541	3.41059	3.72809	0.18288	5.26288	12.78128	17.86128	17
RPP 2542	3.09309	3.41059	0.18288	5.26288	12.78128	17.86128	17
RPP 2543	2.77559	3.09309	0.18288	5.26288	12.78128	17.86128	17
RPP 2544	2.45809	2.77559	0.18288	5.26288	12.78128	17.86128	17
RPP 2545	2.14059	2.45809	0.18288	5.26288	12.78128	17.86128	17
RPP 2546	1.82309	2.14059	0.18288	5.26288	12.78128	17.86128	17
RPP 2547	1.50558	1.82309	0.18288	5.26288	12.78128	17.86128	17
RPP 2548	1.18809	1.50558	0.18288	5.26288	12.78128	17.86128	17
RPP 2549	0.87059	1.18809	0.18288	5.26288	12.78128	17.86128	17
RPP 2550	0.55309	0.87059	0.18288	5.26288	12.78128	17.86128	17
RPP 2551	0.23558	0.55309	0.18288	5.26288	12.78128	17.86128	17
RPP 2552	0.00000	3.72809	0.00000	0.10160	17.86128	20.40128	17
RPP 2553	3.72809	5.54609	0.00000	0.10160	17.86128	20.40128	17
RPP 2554	0.00000	3.72809	5.42417	5.52577	17.86128	20.40128	17
RPP 2555	3.72809	5.54609	5.42417	5.52577	17.86128	20.40128	17
RPP 2556	0.14922	3.72809	0.10160	0.18288	17.86128	20.40128	17
RPP 2557	3.72809	5.39687	0.10160	0.18288	17.86128	20.40128	17
RPP 2558	3.72809	5.31559	0.18288	5.26288	17.86128	20.40128	17
RPP 2559	3.41059	3.72809	0.18288	5.26288	17.86128	20.40128	17

RPP 2560	3.09309	3.41059	0.18288	5.26288	17.86128	20.40128	17
RPP 2561	2.77559	3.09309	0.18288	5.26288	17.86128	20.40128	17
RPP 2562	2.45809	2.77559	0.18288	5.26288	17.86128	20.40128	17
RPP 2563	2.14059	2.45809	0.18288	5.26288	17.86128	20.40128	17
RPP 2564	1.82309	2.14059	0.18288	5.26288	17.86128	20.40128	17
RPP 2565	1.50558	1.82309	0.18288	5.26288	17.86128	20.40128	17
RPP 2566	1.18809	1.50558	0.18288	5.26288	17.86128	20.40128	17
RPP 2567	0.87059	1.18809	0.18288	5.26288	17.86128	20.40128	17
RPP 2568	0.55309	0.87059	0.18288	5.26288	17.86128	20.40128	17
RPP 2569	0.23558	0.55309	0.18288	5.26288	17.86128	20.40128	17
RPP 2570	0.10160	3.72809	5.34924	5.42417	17.86128	20.40128	17
RPP 2571	3.72809	5.44449	5.34924	5.42417	17.86128	20.40128	17
RPP 2572	0.23050	3.72809	5.26288	5.34924	17.86128	20.40128	17
RPP 2573	3.72809	5.31559	5.26288	5.34924	17.86128	20.40128	17
RPP 2574	0.23050	0.23558	0.18288	5.26288	17.86128	20.40128	17
RPP 2575	2.77559	5.31559	0.18288	5.26288	57.54878	58.18378	17
RPP 2576	0.23050	0.23558	0.18288	5.26288	58.18378	67.70878	17
RPP 2577	0.23050	0.23558	0.18288	5.26288	38.81628	58.18378	17
RPP 2578	0.00000	2.77559	0.00000	0.10160	67.70878	68.34378	17
RPP 2579	2.77559	5.54609	0.00000	0.10160	67.70878	68.34378	17
RPP 2580	0.00000	2.77559	5.42417	5.52577	67.70878	68.34378	17
RPP 2581	2.77559	5.54609	5.42417	5.52577	67.70878	68.34378	17
RPP 2582	0.14922	2.77559	0.10160	0.18288	67.70878	68.34378	17
RPP 2583	2.77559	5.39687	0.10160	0.18288	67.70878	68.34378	17
RPP 2584	0.10160	2.77559	5.34924	5.42417	67.70878	68.34378	17
RPP 2585	2.77559	5.44449	5.34924	5.42417	67.70878	68.34378	17
RPP 2586	0.23050	2.77559	5.26288	5.34924	67.70878	68.34378	17
RPP 2587	2.77559	5.31559	5.26288	5.34924	67.70878	68.34378	17
RPP 2588	0.23050	2.77559	0.18288	5.26288	67.70878	68.34378	17
RPP 2589	4.99809	5.31559	0.18288	5.26288	12.78128	17.86128	17
RPP 2590	4.68059	4.99809	0.18288	5.26288	12.78128	17.86128	17
RPP 2591	4.36309	4.68059	0.18288	5.26288	12.78128	17.86128	17
RPP 2592	4.04558	4.36309	0.18288	5.26288	12.78128	17.86128	17
RPP 2593	3.72809	4.04558	0.18288	5.26288	12.78128	17.86128	17
RPP 2594	0.00000	2.14059	0.00000	0.10160	17.86128	20.40128	17
RPP 2595	2.14059	5.54609	0.00000	0.10160	17.86128	20.40128	17
RPP 2596	0.00000	2.14059	5.42417	5.52577	17.86128	20.40128	17
RPP 2597	2.14059	5.54609	5.42417	5.52577	17.86128	20.40128	17
RPP 2598	0.14922	2.14059	0.10160	0.18288	17.86128	20.40128	17
RPP 2599	2.14059	5.39687	0.10160	0.18288	17.86128	20.40128	17
RPP 2600	0.23558	2.14059	0.18288	5.26288	17.86128	20.40128	17
RPP 2601	4.99809	5.31559	0.18288	5.26288	17.86128	20.40128	17
RPP 2602	4.68059	4.99809	0.18288	5.26288	17.86128	20.40128	17
RPP 2603	4.36309	4.68059	0.18288	5.26288	17.86128	20.40128	17
RPP 2604	4.04558	4.36309	0.18288	5.26288	17.86128	20.40128	17
RPP 2605	3.72809	4.04558	0.18288	5.26288	17.86128	20.40128	17
RPP 2606	0.10160	2.14059	5.34924	5.42417	17.86128	20.40128	17
RPP 2607	2.14059	5.44449	5.34924	5.42417	17.86128	20.40128	17
RPP 2608	0.23050	2.14059	5.26288	5.34924	17.86128	20.40128	17
RPP 2609	2.14059	5.31559	5.26288	5.34924	17.86128	20.40128	17
RPP 2610	0.23558	2.77559	0.18288	5.26288	57.54878	58.18378	17
RPP 2611	0.23050	0.23558	0.18288	5.26288	38.81628	67.70878	17
RPP 2612	0.23050	0.23558	0.18288	5.26288	67.70878	68.34378	17
RPP 2613	2.77559	5.31559	0.18288	5.26288	67.70878	68.34378	17
RPP 2614	0.23050	0.23558	0.18288	5.26288	0.08128	15.32128	17
RPP 2615	0.23558	5.31559	0.18288	2.72288	15.32128	16.59128	17
RPP 2616	0.23558	5.31559	2.72288	3.04038	15.32128	16.59128	17
RPP 2617	0.23558	5.31559	3.04038	3.35788	15.32128	16.59128	17
RPP 2618	0.23558	5.31559	3.35788	3.67538	15.32128	16.59128	17
RPP 2619	0.23558	5.31559	3.67538	3.99288	15.32128	16.59128	17
RPP 2620	0.23558	5.31559	3.99288	4.31038	15.32128	16.59128	17
RPP 2621	0.23558	5.31559	4.31038	4.62788	15.32128	16.59128	17
RPP 2622	0.23558	5.31559	4.62788	4.94538	15.32128	16.59128	17
RPP 2623	0.23558	5.31559	4.94538	5.26288	15.32128	16.59128	17
RPP 2624	0.23050	0.23558	0.18288	2.72288	15.32128	16.59128	17
RPP 2625	0.23050	0.23558	2.72288	5.26288	15.32128	16.59128	17
RPP 2626	0.23558	5.31559	0.18288	2.72288	16.59128	17.86128	17
RPP 2627	0.23558	5.31559	0.18288	5.26288	17.86128	38.18128	17
RPP 2628	0.23558	5.31559	2.72288	3.04038	16.59128	17.86128	17
RPP 2629	0.23558	5.31559	3.04038	3.35788	16.59128	17.86128	17
RPP 2630	0.23558	5.31559	3.35788	3.67538	16.59128	17.86128	17
RPP 2631	0.23558	5.31559	3.67538	3.99288	16.59128	17.86128	17

RPP 2632	0.23558	5.31559	3.99288	4.31038	16.59128	17.86128	17
RPP 2633	0.23558	5.31559	4.31038	4.62788	16.59128	17.86128	17
RPP 2634	0.23558	5.31559	4.62788	4.94538	16.59128	17.86128	17
RPP 2635	0.23558	5.31559	4.94538	5.26288	16.59128	17.86128	17
RPP 2636	0.23050	0.23558	0.18288	5.26288	17.86128	38.34003	17
RPP 2637	0.23050	0.23558	2.72288	5.26288	16.59128	17.86128	17
RPP 2638	0.23050	0.23558	0.18288	2.72288	16.59128	17.86128	17
RPP 2639	0.23558	5.31559	0.18288	5.26288	56.59628	57.23128	17
RPP 2640	0.23558	5.31559	0.18288	5.26288	57.23128	67.39128	17
RPP 2641	0.23050	0.23558	0.18288	5.26288	38.81628	67.39128	17
RPP 2642	0.23558	5.31559	0.18288	5.26288	67.39128	67.55003	17
RPP 2643	0.23050	0.23558	0.18288	5.26288	67.39128	67.55003	17
RPP 2644	0.23558	5.31559	0.18288	5.26288	15.32128	28.02128	17
RPP 2645	0.23558	5.31559	0.18288	5.26288	28.02128	38.18128	17
RPP 2646	0.23050	0.23558	0.18288	5.26288	15.32128	38.34003	17
RPP 2647	0.23558	2.77559	0.18288	5.26288	56.59628	57.23128	17
RPP 2648	2.77559	5.31559	0.18288	2.72288	56.59628	66.75628	17
RPP 2649	2.77559	5.31559	2.72288	5.26288	56.59628	66.75628	17
RPP 2650	0.23558	2.77559	0.18288	2.72288	57.23128	66.75628	17
RPP 2651	0.23558	2.77559	2.72288	5.26288	57.23128	66.75628	17
RPP 2652	0.23050	0.23558	0.18288	5.26288	38.81628	66.75628	17
RPP 2653	0.00000	2.77559	0.00000	0.10160	66.75628	67.39128	17
RPP 2654	2.77559	5.54609	0.00000	0.10160	66.75628	67.39128	17
RPP 2655	0.00000	2.77559	5.42417	5.52577	66.75628	67.39128	17
RPP 2656	2.77559	5.54609	5.42417	5.52577	66.75628	67.39128	17
RPP 2657	0.14922	2.77559	0.10160	0.18288	66.75628	67.39128	17
RPP 2658	2.77559	5.39687	0.10160	0.18288	66.75628	67.39128	17
RPP 2659	0.23558	2.77559	0.18288	2.72288	66.75628	67.39128	17
RPP 2660	0.23558	2.77559	2.72288	5.26288	66.75628	67.39128	17
RPP 2661	0.10160	2.77559	5.34924	5.42417	66.75628	67.39128	17
RPP 2662	2.77559	5.44449	5.34924	5.42417	66.75628	67.39128	17
RPP 2663	0.23050	2.77559	5.26288	5.34924	66.75628	67.39128	17
RPP 2664	2.77559	5.31559	5.26288	5.34924	66.75628	67.39128	17
RPP 2665	0.23050	0.23558	0.18288	5.26288	66.75628	67.39128	17
RPP 2666	2.77559	5.31559	0.18288	5.26288	66.75628	67.39128	17
RPP 2667	2.77559	5.31559	0.18288	5.26288	56.59628	57.23128	17
RPP 2668	2.77559	5.31559	0.18288	2.72288	57.23128	66.75628	17
RPP 2669	2.77559	5.31559	2.72288	5.26288	57.23128	66.75628	17
RPP 2670	0.23558	2.77559	0.18288	2.72288	56.59628	66.75628	17
RPP 2671	0.23558	2.77559	2.72288	5.26288	56.59628	66.75628	17
RPP 2672	0.23050	0.23558	0.18288	5.26288	57.23128	66.75628	17
RPP 2673	0.23050	0.23558	0.18288	5.26288	38.81628	57.23128	17
RPP 2674	2.77559	5.31559	0.18288	2.72288	66.75628	67.39128	17
RPP 2675	2.77559	5.31559	2.72288	5.26288	66.75628	67.39128	17
RPP 2676	0.23050	2.77559	0.18288	5.26288	66.75628	67.39128	17
RPP 2677	0.23558	5.31559	2.72288	5.26288	56.59628	57.23128	17
RPP 2678	0.23050	0.23558	2.72288	5.26288	56.59628	66.75628	17
RPP 2679	0.23050	0.23558	0.18288	5.26288	38.81628	56.59628	17
RPP 2680	0.23050	0.23558	0.18288	2.72288	56.59628	66.75628	17
RPP 2681	0.23050	0.23558	2.72288	5.26288	66.75628	67.39128	17
RPP 2682	0.23558	5.31559	0.18288	2.72288	56.59628	57.23128	17
RPP 2683	0.23050	0.23558	0.18288	2.72288	66.75628	67.39128	17
RPP 2684	4.99809	5.31559	0.18288	5.26288	0.08128	10.24128	17
RPP 2685	4.68059	4.99809	0.18288	5.26288	0.08128	10.24128	17
RPP 2686	4.36309	4.68059	0.18288	5.26288	0.08128	10.24128	17
RPP 2687	4.04558	4.36309	0.18288	5.26288	0.08128	10.24128	17
RPP 2688	3.72809	4.04558	0.18288	5.26288	0.08128	10.24128	17
RPP 2689	3.41059	3.72809	0.18288	5.26288	0.08128	10.24128	17
RPP 2690	3.09309	3.41059	0.18288	5.26288	0.08128	10.24128	17
RPP 2691	2.77559	3.09309	0.18288	5.26288	0.08128	10.24128	17
RPP 2692	2.45809	2.77559	0.18288	5.26288	0.08128	10.24128	17
RPP 2693	2.14059	2.45809	0.18288	5.26288	0.08128	10.24128	17
RPP 2694	1.82309	2.14059	0.18288	5.26288	0.08128	10.24128	17
RPP 2695	1.50558	1.82309	0.18288	5.26288	0.08128	10.24128	17
RPP 2696	1.18809	1.50558	0.18288	5.26288	0.08128	10.24128	17
RPP 2697	0.87059	1.18809	0.18288	5.26288	0.08128	10.24128	17
RPP 2698	0.55309	0.87059	0.18288	5.26288	0.08128	10.24128	17
RPP 2699	0.23558	0.55309	0.18288	5.26288	0.08128	10.24128	17
RPP 2700	0.23050	0.23558	0.18288	5.26288	0.08128	10.24128	17
RPP 2701	0.23558	5.31559	0.18288	0.50038	10.24128	15.32128	17
RPP 2702	0.23558	5.31559	0.50038	0.81788	10.24128	15.32128	17
RPP 2703	0.23558	5.31559	0.81788	1.13538	10.24128	15.32128	17

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RPP 2704   0.23558   5.31559   1.13538   1.45288  10.24128  15.32128     17
RPP 2705   0.23558   5.31559   1.45288   1.77038  10.24128  15.32128     17
RPP 2706   0.23558   5.31559   1.77038   2.08788  10.24128  15.32128     17
RPP 2707   0.23558   5.31559   2.08788   2.40538  10.24128  15.32128     17
RPP 2708   0.23558   5.31559   2.40538   2.72288  10.24128  15.32128     17
RPP 2709   0.23558   5.31559   2.72288   3.04038  10.24128  15.32128     17
RPP 2710   0.23558   5.31559   3.04038   3.35788  10.24128  15.32128     17
RPP 2711   0.23558   5.31559   3.35788   3.67538  10.24128  15.32128     17
RPP 2712   0.23558   5.31559   3.67538   5.26288  10.24128  15.32128     17
RPP 2713   0.23050   0.23558   0.18288   3.67538  10.24128  15.32128     17
RPP 2714   0.23050   0.23558   3.67538   5.26288  10.24128  15.32128     17
RPP 2715   0.23558   5.31559   0.18288   1.77038  10.24128  15.32128     17
RPP 2716   0.23558   5.31559   3.67538   3.99288  10.24128  15.32128     17
RPP 2717   0.23558   5.31559   3.99288   4.31038  10.24128  15.32128     17
RPP 2718   0.23558   5.31559   4.31038   4.62788  10.24128  15.32128     17
RPP 2719   0.23558   5.31559   4.62788   4.94538  10.24128  15.32128     17
RPP 2720   0.23558   5.31559   4.94538   5.26288  10.24128  15.32128     17
RPP 2721   0.23050   0.23558   0.18288   1.77038  10.24128  15.32128     17
RPP 2722   0.23050   0.23558   1.77038   5.26288  10.24128  15.32128     17
RPP 2723   0.00000   3.72809   0.00000   0.10160  10.24128  15.32128     17
RPP 2724   3.72809   5.54609   0.00000   0.10160  10.24128  15.32128     17
RPP 2725   0.00000   3.72809   5.42417   5.52577  10.24128  15.32128     17
RPP 2726   3.72809   5.54609   5.42417   5.52577  10.24128  15.32128     17
RPP 2727   0.14922   3.72809   0.10160   0.18288  10.24128  15.32128     17
RPP 2728   3.72809   5.39687   0.10160   0.18288  10.24128  15.32128     17
RPP 2729   1.82309   2.14059   0.18288   5.26288  10.24128  15.32128     17
RPP 2730   3.72809   5.31559   0.18288   5.26288  10.24128  15.32128     17
RPP 2731   3.41059   3.72809   0.18288   5.26288  10.24128  15.32128     17
RPP 2732   3.09309   3.41059   0.18288   5.26288  10.24128  15.32128     17
RPP 2733   2.77559   3.09309   0.18288   5.26288  10.24128  15.32128     17
RPP 2734   2.45809   2.77559   0.18288   5.26288  10.24128  15.32128     17
RPP 2735   2.14059   2.45809   0.18288   5.26288  10.24128  15.32128     17
RPP 2736   1.50558   1.82309   0.18288   5.26288  10.24128  15.32128     17
RPP 2737   1.18809   1.50558   0.18288   5.26288  10.24128  15.32128     17
RPP 2738   0.87059   1.18809   0.18288   5.26288  10.24128  15.32128     17
RPP 2739   0.55309   0.87059   0.18288   5.26288  10.24128  15.32128     17
RPP 2740   0.23558   0.55309   0.18288   5.26288  10.24128  15.32128     17
RPP 2741   0.10160   3.72809   5.34924   5.42417  10.24128  15.32128     17
RPP 2742   3.72809   5.44449   5.34924   5.42417  10.24128  15.32128     17
RPP 2743   0.23050   3.72809   5.26288   5.34924  10.24128  15.32128     17
RPP 2744   3.72809   5.31559   5.26288   5.34924  10.24128  15.32128     17
RPP 2745   0.23050   0.23558   0.18288   5.26288  10.24128  15.32128     17
RPP 2746   0.00000   2.14059   0.00000   0.10160  10.24128  15.32128     17
RPP 2747   2.14059   5.54609   0.00000   0.10160  10.24128  15.32128     17
RPP 2748   0.00000   2.14059   5.42417   5.52577  10.24128  15.32128     17
RPP 2749   2.14059   5.54609   5.42417   5.52577  10.24128  15.32128     17
RPP 2750   0.14922   2.14059   0.10160   0.18288  10.24128  15.32128     17
RPP 2751   2.14059   5.39687   0.10160   0.18288  10.24128  15.32128     17
RPP 2752   4.99809   5.31559   0.18288   5.26288  10.24128  15.32128     17
RPP 2753   4.68059   4.99809   0.18288   5.26288  10.24128  15.32128     17
RPP 2754   4.36309   4.68059   0.18288   5.26288  10.24128  15.32128     17
RPP 2755   4.04558   4.36309   0.18288   5.26288  10.24128  15.32128     17
RPP 2756   3.72809   4.04558   0.18288   5.26288  10.24128  15.32128     17
RPP 2757   0.23558   2.14059   0.18288   5.26288  10.24128  15.32128     17
RPP 2758   0.10160   2.14059   5.34924   5.42417  10.24128  15.32128     17
RPP 2759   2.14059   5.44449   5.34924   5.42417  10.24128  15.32128     17
RPP 2760   0.23050   2.14059   5.26288   5.34924  10.24128  15.32128     17
RPP 2761   2.14059   5.31559   5.26288   5.34924  10.24128  15.32128     17
RPP 2762   0.23050   0.23558   0.18288   5.26288   0.08128   7.70128     17
RPP 2763   0.23558   5.31559   3.35788   3.67538   7.70128  12.78128     17
RPP 2764   0.23558   5.31559   0.18288   0.50038   7.70128  12.78128     17
RPP 2765   0.23558   5.31559   0.50038   0.81788   7.70128  12.78128     17
RPP 2766   0.23558   5.31559   0.81788   1.13538   7.70128  12.78128     17
RPP 2767   0.23558   5.31559   1.13538   1.45288   7.70128  12.78128     17
RPP 2768   0.23558   5.31559   1.45288   1.77038   7.70128  12.78128     17
RPP 2769   0.23558   5.31559   1.77038   2.08788   7.70128  12.78128     17
RPP 2770   0.23558   5.31559   2.08788   2.40538   7.70128  12.78128     17
RPP 2771   0.23558   5.31559   2.40538   2.72288   7.70128  12.78128     17
RPP 2772   0.23558   5.31559   2.72288   3.04038   7.70128  12.78128     17
RPP 2773   0.23558   5.31559   3.04038   3.35788   7.70128  12.78128     17
RPP 2774   0.23558   5.31559   3.67538   5.26288   7.70128  12.78128     17
RPP 2775   0.23050   0.23558   0.18288   3.67538   7.70128  12.78128     17
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RPP 2776	0.23050	0.23558	3.67538	5.26288	7.70128	12.78128	17
RPP 2777	0.23558	5.31559	0.18288	5.26288	12.78128	38.18128	17
RPP 2778	0.23050	0.23558	0.18288	5.26288	12.78128	38.34003	17
RPP 2779	0.23558	5.31559	0.18288	5.26288	51.51628	61.67628	17
RPP 2780	0.23558	5.31559	0.18288	5.26288	61.67628	61.83503	17
RPP 2781	0.23050	0.23558	0.18288	5.26288	61.67628	61.83503	17
RPP 2782	0.23558	5.31559	0.18288	2.08788	7.70128	12.78128	17
RPP 2783	0.23558	5.31559	3.67538	3.99288	7.70128	12.78128	17
RPP 2784	0.23558	5.31559	3.99288	4.31038	7.70128	12.78128	17
RPP 2785	0.23558	5.31559	4.31038	4.62788	7.70128	12.78128	17
RPP 2786	0.23558	5.31559	4.62788	4.94538	7.70128	12.78128	17
RPP 2787	0.23558	5.31559	4.94538	5.26288	7.70128	12.78128	17
RPP 2788	0.23050	0.23558	0.18288	2.08788	7.70128	12.78128	17
RPP 2789	0.23050	0.23558	2.08788	5.26288	7.70128	12.78128	17
RPP 2790	0.00000	3.41059	0.00000	0.10160	7.70128	12.78128	17
RPP 2791	3.41059	5.54609	0.00000	0.10160	7.70128	12.78128	17
RPP 2792	0.00000	3.41059	5.42417	5.52577	7.70128	12.78128	17
RPP 2793	3.41059	5.54609	5.42417	5.52577	7.70128	12.78128	17
RPP 2794	0.14922	3.41059	0.10160	0.18288	7.70128	12.78128	17
RPP 2795	3.41059	5.39687	0.10160	0.18288	7.70128	12.78128	17
RPP 2796	3.41059	5.31559	0.18288	5.26288	7.70128	12.78128	17
RPP 2797	0.10160	3.41059	5.34924	5.42417	7.70128	12.78128	17
RPP 2798	3.41059	5.44449	5.34924	5.42417	7.70128	12.78128	17
RPP 2799	0.23050	3.41059	5.26288	5.34924	7.70128	12.78128	17
RPP 2800	3.41059	5.31559	5.26288	5.34924	7.70128	12.78128	17
RPP 2801	0.23050	0.23558	0.18288	5.26288	7.70128	12.78128	17
RPP 2802	0.00000	1.82309	0.00000	0.10160	7.70128	12.78128	17
RPP 2803	1.82309	5.54609	0.00000	0.10160	7.70128	12.78128	17
RPP 2804	0.00000	1.82309	5.42417	5.52577	7.70128	12.78128	17
RPP 2805	1.82309	5.54609	5.42417	5.52577	7.70128	12.78128	17
RPP 2806	0.14922	1.82309	0.10160	0.18288	7.70128	12.78128	17
RPP 2807	1.82309	5.39687	0.10160	0.18288	7.70128	12.78128	17
RPP 2808	0.23558	1.82309	0.18288	5.26288	7.70128	12.78128	17
RPP 2809	0.10160	1.82309	5.34924	5.42417	7.70128	12.78128	17
RPP 2810	1.82309	5.44449	5.34924	5.42417	7.70128	12.78128	17
RPP 2811	0.23050	1.82309	5.26288	5.34924	7.70128	12.78128	17
RPP 2812	1.82309	5.31559	5.26288	5.34924	7.70128	12.78128	17
RPP 2813	0.23558	5.31559	1.77038	2.08788	0.08128	5.16128	17
RPP 2814	0.23558	5.31559	0.18288	0.50038	0.08128	5.16128	17
RPP 2815	0.23558	5.31559	0.50038	0.81788	0.08128	5.16128	17
RPP 2816	0.23558	5.31559	0.81788	1.13538	0.08128	5.16128	17
RPP 2817	0.23558	5.31559	1.13538	1.45288	0.08128	5.16128	17
RPP 2818	0.23558	5.31559	1.45288	1.77038	0.08128	5.16128	17
RPP 2819	0.23558	5.31559	2.08788	2.40538	0.08128	5.16128	17
RPP 2820	0.23558	5.31559	2.40538	2.72288	0.08128	5.16128	17
RPP 2821	0.23558	5.31559	2.72288	3.04038	0.08128	5.16128	17
RPP 2822	0.23558	5.31559	3.04038	3.35788	0.08128	5.16128	17
RPP 2823	0.23558	5.31559	3.35788	3.67538	0.08128	5.16128	17
RPP 2824	0.23558	5.31559	3.67538	5.26288	0.08128	5.16128	17
RPP 2825	0.23050	0.23558	0.18288	3.67538	0.08128	2.54000	17
RPP 2826	0.23050	0.23558	3.67538	5.26288	0.08128	2.54000	17
RPP 2827	0.23050	0.23558	0.18288	3.67538	2.54000	5.16128	17
RPP 2828	0.23050	0.23558	3.67538	5.26288	2.54000	5.16128	17
RPP 2829	0.23558	5.31559	0.18288	0.50038	5.16128	10.24128	17
RPP 2830	0.23558	5.31559	0.50038	0.81788	5.16128	10.24128	17
RPP 2831	0.23558	5.31559	0.81788	1.13538	5.16128	10.24128	17
RPP 2832	0.23558	5.31559	1.13538	1.45288	5.16128	10.24128	17
RPP 2833	0.23558	5.31559	1.45288	1.77038	5.16128	10.24128	17
RPP 2834	0.23558	5.31559	1.77038	3.35788	5.16128	10.24128	17
RPP 2835	0.23558	5.31559	3.35788	5.26288	5.16128	10.24128	17
RPP 2836	0.23050	0.23558	0.18288	1.77038	5.16128	10.24128	17
RPP 2837	0.23050	0.23558	1.77038	5.26288	5.16128	10.24128	17
RPP 2838	0.23558	5.31559	0.18288	5.26288	10.24128	22.94128	17
RPP 2839	0.23050	0.23558	0.18288	5.26288	10.24128	38.34003	17
RPP 2840	0.23558	5.31559	0.18288	5.26288	48.97628	50.24628	17
RPP 2841	0.23558	5.31559	0.18288	5.26288	38.81628	48.97628	17
RPP 2842	0.23558	5.31559	0.18288	5.26288	50.24628	60.40628	17
RPP 2843	0.23050	0.23558	0.18288	5.26288	38.81628	60.40628	17
RPP 2844	0.23558	5.31559	0.18288	5.26288	60.40628	60.56503	17
RPP 2845	0.23050	0.23558	0.18288	5.26288	60.40628	60.56503	17
RPP 2846	0.14922	5.39687	0.10160	1.77038	0.00000	0.08128	17
RPP 2847	0.23558	5.31559	0.18288	1.77038	0.08128	5.16128	17

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RPP 2848   0.23558   5.31559   3.67538   3.99288   0.08128   5.16128     17
RPP 2849   0.23558   5.31559   3.99288   4.31038   0.08128   5.16128     17
RPP 2850   0.23558   5.31559   4.31038   4.62788   0.08128   5.16128     17
RPP 2851   0.23558   5.31559   4.62788   4.94538   0.08128   5.16128     17
RPP 2852   0.23558   5.31559   4.94538   5.26288   0.08128   5.16128     17
RPP 2853   0.23050   0.23558   0.18288   1.77038   0.08128   2.54000     17
RPP 2854   0.23050   0.23558   1.77038   5.26288   0.08128   2.54000     17
RPP 2855   0.23050   0.23558   0.18288   1.77038   2.54000   5.16128     17
RPP 2856   0.23050   0.23558   1.77038   5.26288   2.54000   5.16128     17
RPP 2857   0.23558   5.31559   0.18288   1.77038   5.16128  10.24128     17
RPP 2858   0.23558   5.31559   1.77038   3.67538   5.16128  10.24128     17
RPP 2859   0.23558   5.31559   3.67538   3.99288   5.16128  10.24128     17
RPP 2860   0.23558   5.31559   3.99288   4.31038   5.16128  10.24128     17
RPP 2861   0.23558   5.31559   4.31038   4.62788   5.16128  10.24128     17
RPP 2862   0.23558   5.31559   4.62788   4.94538   5.16128  10.24128     17
RPP 2863   0.23558   5.31559   4.94538   5.26288   5.16128  10.24128     17
RPP 2864   0.23050   0.23558   0.18288   3.67538   5.16128  10.24128     17
RPP 2865   0.23050   0.23558   3.67538   5.26288   5.16128  10.24128     17
RPP 2866   0.00000   3.72809   0.00000   0.10160   0.00000   2.54000     17
RPP 2867   3.72809   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 2868   0.00000   3.72809   5.42417   5.52577   0.00000   2.54000     17
RPP 2869   3.72809   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 2870   0.00000   3.72809   0.00000   0.10160   2.54000   5.16128     17
RPP 2871   3.72809   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 2872   0.00000   3.72809   5.42417   5.52577   2.54000   5.16128     17
RPP 2873   3.72809   5.54609   5.42417   5.52577   2.54000   5.16128     17
RPP 2874   0.14922   3.72809   0.10160   5.34924   0.00000   0.08128     17
RPP 2875   3.72809   5.39687   0.10160   5.34924   0.00000   0.08128     17
RPP 2876   0.14922   3.72809   0.10160   0.18288   0.08128   5.16128     17
RPP 2877   3.72809   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 2878   0.23558   0.55309   0.18288   5.26288   0.08128   5.16128     17
RPP 2879   3.72809   5.31559   0.18288   5.26288   0.08128   5.16128     17
RPP 2880   3.41059   3.72809   0.18288   5.26288   0.08128   5.16128     17
RPP 2881   3.09309   3.41059   0.18288   5.26288   0.08128   5.16128     17
RPP 2882   2.77559   3.09309   0.18288   5.26288   0.08128   5.16128     17
RPP 2883   2.45809   2.77559   0.18288   5.26288   0.08128   5.16128     17
RPP 2884   2.14059   2.45809   0.18288   5.26288   0.08128   5.16128     17
RPP 2885   1.82309   2.14059   0.18288   5.26288   0.08128   5.16128     17
RPP 2886   1.50558   1.82309   0.18288   5.26288   0.08128   5.16128     17
RPP 2887   1.18809   1.50558   0.18288   5.26288   0.08128   5.16128     17
RPP 2888   0.87059   1.18809   0.18288   5.26288   0.08128   5.16128     17
RPP 2889   0.55309   0.87059   0.18288   5.26288   0.08128   5.16128     17
RPP 2890   0.10160   3.72809   5.34924   5.42417   0.00000   5.16128     17
RPP 2891   3.72809   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 2892   0.23050   3.72809   5.26288   5.34924   0.08128   5.16128     17
RPP 2893   3.72809   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 2894   0.23050   0.23558   0.18288   5.26288   0.08128   5.16128     17
RPP 2895   0.00000   1.82309   0.00000   0.10160   5.16128  10.24128     17
RPP 2896   1.82309   5.54609   0.00000   0.10160   5.16128  10.24128     17
RPP 2897   0.00000   1.82309   5.42417   5.52577   5.16128  10.24128     17
RPP 2898   1.82309   5.54609   5.42417   5.52577   5.16128  10.24128     17
RPP 2899   0.14922   1.82309   0.10160   0.18288   5.16128  10.24128     17
RPP 2900   1.82309   5.39687   0.10160   0.18288   5.16128  10.24128     17
RPP 2901   3.41059   5.31559   0.18288   5.26288   5.16128  10.24128     17
RPP 2902   1.82309   3.41059   0.18288   5.26288   5.16128  10.24128     17
RPP 2903   1.50558   1.82309   0.18288   5.26288   5.16128  10.24128     17
RPP 2904   1.18809   1.50558   0.18288   5.26288   5.16128  10.24128     17
RPP 2905   0.87059   1.18809   0.18288   5.26288   5.16128  10.24128     17
RPP 2906   0.55309   0.87059   0.18288   5.26288   5.16128  10.24128     17
RPP 2907   0.23558   0.55309   0.18288   5.26288   5.16128  10.24128     17
RPP 2908   0.10160   1.82309   5.34924   5.42417   5.16128  10.24128     17
RPP 2909   1.82309   5.44449   5.34924   5.42417   5.16128  10.24128     17
RPP 2910   0.23050   1.82309   5.26288   5.34924   5.16128  10.24128     17
RPP 2911   1.82309   5.31559   5.26288   5.34924   5.16128  10.24128     17
RPP 2912   0.23050   0.23558   0.18288   5.26288   5.16128  10.24128     17
RPP 2913   0.00000   1.82309   0.00000   0.10160   0.00000   2.54000     17
RPP 2914   1.82309   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 2915   0.00000   1.82309   5.42417   5.52577   0.00000   2.54000     17
RPP 2916   1.82309   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 2917   0.00000   1.82309   0.00000   0.10160   2.54000   5.16128     17
RPP 2918   1.82309   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 2919   0.00000   1.82309   5.42417   5.52577   2.54000   5.16128     17
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RPP 2920   1.82309   5.54609   5.42417   5.52577   2.54000   5.16128     17
RPP 2921   0.14922   1.82309   0.10160   5.34924   0.00000   0.08128     17
RPP 2922   1.82309   5.39687   0.10160   5.34924   0.00000   0.08128     17
RPP 2923   0.14922   1.82309   0.10160   0.18288   0.08128   5.16128     17
RPP 2924   1.82309   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 2925   4.99809   5.31559   0.18288   5.26288   0.08128   5.16128     17
RPP 2926   4.68059   4.99809   0.18288   5.26288   0.08128   5.16128     17
RPP 2927   4.36309   4.68059   0.18288   5.26288   0.08128   5.16128     17
RPP 2928   4.04558   4.36309   0.18288   5.26288   0.08128   5.16128     17
RPP 2929   3.72809   4.04558   0.18288   5.26288   0.08128   5.16128     17
RPP 2930   0.23558   1.82309   0.18288   5.26288   0.08128   5.16128     17
RPP 2931   0.10160   1.82309   5.34924   5.42417   0.00000   5.16128     17
RPP 2932   1.82309   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 2933   0.23050   1.82309   5.26288   5.34924   0.08128   5.16128     17
RPP 2934   1.82309   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 2935   0.00000   3.72809   0.00000   0.10160   5.16128  10.24128     17
RPP 2936   3.72809   5.54609   0.00000   0.10160   5.16128  10.24128     17
RPP 2937   0.00000   3.72809   5.42417   5.52577   5.16128  10.24128     17
RPP 2938   3.72809   5.54609   5.42417   5.52577   5.16128  10.24128     17
RPP 2939   0.14922   3.72809   0.10160   0.18288   5.16128  10.24128     17
RPP 2940   3.72809   5.39687   0.10160   0.18288   5.16128  10.24128     17
RPP 2941   4.99809   5.31559   0.18288   5.26288   5.16128  10.24128     17
RPP 2942   4.68059   4.99809   0.18288   5.26288   5.16128  10.24128     17
RPP 2943   4.36309   4.68059   0.18288   5.26288   5.16128  10.24128     17
RPP 2944   4.04558   4.36309   0.18288   5.26288   5.16128  10.24128     17
RPP 2945   3.72809   4.04558   0.18288   5.26288   5.16128  10.24128     17
RPP 2946   2.14059   3.72809   0.18288   5.26288   5.16128  10.24128     17
RPP 2947   0.23558   2.14059   0.18288   5.26288   5.16128  10.24128     17
RPP 2948   0.10160   3.72809   5.34924   5.42417   5.16128  10.24128     17
RPP 2949   3.72809   5.44449   5.34924   5.42417   5.16128  10.24128     17
RPP 2950   0.23050   3.72809   5.26288   5.34924   5.16128  10.24128     17
RPP 2951   3.72809   5.31559   5.26288   5.34924   5.16128  10.24128     17
RPP 2952   0.23558   5.31559   2.40538   5.26288   0.08128   5.16128     17
RPP 2953   0.23050   0.23558   0.18288   2.40538   0.08128   2.54000     17
RPP 2954   0.23050   0.23558   2.40538   5.26288   0.08128   2.54000     17
RPP 2955   0.23050   0.23558   0.18288   1.45288   2.54000   5.16128     17
RPP 2956   0.23050   0.23558   1.45288   2.40538   2.54000   5.16128     17
RPP 2957   0.23050   0.23558   2.40538   5.26288   2.54000   5.16128     17
RPP 2958   0.23050   0.23558   0.18288   1.45288   5.16128  10.24128     17
RPP 2959   0.23050   0.23558   1.45288   1.77038   5.16128  10.24128     17
RPP 2960   0.23558   5.31559   1.77038   3.35788   0.08128   5.16128     17
RPP 2961   0.23050   0.23558   0.18288   3.35788   0.08128   2.54000     17
RPP 2962   0.23050   0.23558   3.35788   5.26288   0.08128   2.54000     17
RPP 2963   0.23050   0.23558   4.62788   5.26288   2.54000   5.16128     17
RPP 2964   0.23050   0.23558   0.18288   3.35788   2.54000   5.16128     17
RPP 2965   0.23050   0.23558   3.35788   4.62788   2.54000   5.16128     17
RPP 2966   0.23050   0.23558   3.67538   4.62788   5.16128  10.24128     17
RPP 2967   0.23050   0.23558   4.62788   5.26288   5.16128  10.24128     17
RPP 2968   0.00000   2.45809   0.00000   0.10160   0.00000   2.54000     17
RPP 2969   2.45809   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 2970   0.00000   2.45809   5.42417   5.52577   0.00000   2.54000     17
RPP 2971   2.45809   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 2972   0.00000   2.45809   0.00000   0.10160   2.54000   5.16128     17
RPP 2973   2.45809   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 2974   0.00000   2.45809   5.42417   5.52577   2.54000   5.16128     17
RPP 2975   2.45809   5.54609   5.42417   5.52577   2.54000   5.16128     17
RPP 2976   0.14922   2.45809   0.10160   5.34924   0.00000   0.08128     17
RPP 2977   2.45809   5.39687   0.10160   5.34924   0.00000   0.08128     17
RPP 2978   0.14922   2.45809   0.10160   0.18288   0.08128   5.16128     17
RPP 2979   2.45809   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 2980   2.45809   5.31559   0.18288   5.26288   0.08128   5.16128     17
RPP 2981   0.10160   2.45809   5.34924   5.42417   0.00000   5.16128     17
RPP 2982   2.45809   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 2983   0.23050   2.45809   5.26288   5.34924   0.08128   5.16128     17
RPP 2984   2.45809   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 2985   0.00000   2.14059   0.00000   0.10160   5.16128  10.24128     17
RPP 2986   2.14059   5.54609   0.00000   0.10160   5.16128  10.24128     17
RPP 2987   0.00000   2.14059   5.42417   5.52577   5.16128  10.24128     17
RPP 2988   2.14059   5.54609   5.42417   5.52577   5.16128  10.24128     17
RPP 2989   0.14922   2.14059   0.10160   0.18288   5.16128  10.24128     17
RPP 2990   2.14059   5.39687   0.10160   0.18288   5.16128  10.24128     17
RPP 2991   1.82309   2.14059   0.18288   5.26288   5.16128  10.24128     17
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RPP 2992   3.72809   5.31559   0.18288   5.26288   5.16128  10.24128     17
RPP 2993   0.10160   2.14059   5.34924   5.42417   5.16128  10.24128     17
RPP 2994   2.14059   5.44449   5.34924   5.42417   5.16128  10.24128     17
RPP 2995   0.23050   2.14059   5.26288   5.34924   5.16128  10.24128     17
RPP 2996   2.14059   5.31559   5.26288   5.34924   5.16128  10.24128     17
RPP 2997   0.00000   2.77559   0.00000   0.10160   0.00000   2.54000     17
RPP 2998   2.77559   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 2999   0.00000   2.77559   5.42417   5.52577   0.00000   2.54000     17
RPP 3000   2.77559   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 3001   0.00000   2.77559   0.00000   0.10160   2.54000   5.16128     17
RPP 3002   2.77559   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 3003   0.00000   2.77559   5.42417   5.52577   2.54000   5.16128     17
RPP 3004   2.77559   5.54609   5.42417   5.52577   2.54000   5.16128     17
RPP 3005   0.14922   2.77559   0.10160   5.34924   0.00000   0.08128     17
RPP 3006   2.77559   5.39687   0.10160   5.34924   0.00000   0.08128     17
RPP 3007   0.14922   2.77559   0.10160   0.18288   0.08128   5.16128     17
RPP 3008   2.77559   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 3009   0.23558   2.77559   0.18288   5.26288   0.08128   5.16128     17
RPP 3010   0.10160   2.77559   5.34924   5.42417   0.00000   5.16128     17
RPP 3011   2.77559   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 3012   0.23050   2.77559   5.26288   5.34924   0.08128   5.16128     17
RPP 3013   2.77559   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 3014   0.23558   5.31559   0.18288   5.26288  22.94128  28.02128     17
RPP 3015   0.23558   5.31559   0.18288   5.26288  28.02128  28.18003     17
RPP 3016   0.23050   0.23558   0.18288   5.26288  10.24128  28.18003     17
RPP 3017   0.14922   2.77559   0.10160   1.77038   0.00000   0.08128     17
RPP 3018   2.77559   5.39687   0.10160   1.77038   0.00000   0.08128     17
RPP 3019   2.77559   5.31559   0.50038   0.81788   0.08128   5.16128     17
RPP 3020   2.77559   5.31559   0.18288   0.50038   0.08128   5.16128     17
RPP 3021   2.77559   5.31559   0.81788   1.13538   0.08128   5.16128     17
RPP 3022   2.77559   5.31559   1.13538   1.45288   0.08128   5.16128     17
RPP 3023   2.77559   5.31559   1.45288   1.77038   0.08128   5.16128     17
RPP 3024   0.23558   2.77559   0.18288   1.77038   0.08128   5.16128     17
RPP 3025   0.23558   5.31559   3.35788   5.26288   0.08128   5.16128     17
RPP 3026   0.23558   5.31559   0.18288   5.26288   5.16128  17.86128     17
RPP 3027   0.23050   0.23558   0.18288   5.26288   5.16128  38.34003     17
RPP 3028   0.14922   2.77559   0.10160   2.08788   0.00000   0.08128     17
RPP 3029   2.77559   5.39687   0.10160   2.08788   0.00000   0.08128     17
RPP 3030   0.23558   2.77559   0.50038   0.81788   0.08128   5.16128     17
RPP 3031   0.23558   2.77559   1.77038   2.08788   0.08128   5.16128     17
RPP 3032   2.77559   5.31559   0.18288   2.08788   0.08128   5.16128     17
RPP 3033   0.23558   2.77559   0.18288   0.50038   0.08128   5.16128     17
RPP 3034   0.23558   2.77559   0.81788   1.13538   0.08128   5.16128     17
RPP 3035   0.23558   2.77559   1.13538   1.45288   0.08128   5.16128     17
RPP 3036   0.23558   2.77559   1.45288   1.77038   0.08128   5.16128     17
RPP 3037   0.23558   5.31559   2.08788   3.67538   0.08128   5.16128     17
RPP 3038   0.23050   0.23558   0.18288   2.08788   0.08128   2.54000     17
RPP 3039   0.23050   0.23558   2.08788   5.26288   0.08128   2.54000     17
RPP 3040   0.23050   0.23558   0.18288   2.08788   2.54000   5.16128     17
RPP 3041   0.23050   0.23558   2.08788   5.26288   2.54000   5.16128     17
RPP 3042   0.14922   1.82309   0.10160   2.72288   0.00000   0.08128     17
RPP 3043   0.14922   1.82309   2.72288   5.34924   0.00000   0.08128     17
RPP 3044   1.18809   1.50558   0.18288   2.72288   0.08128   5.16128     17
RPP 3045   2.77559   5.31559   0.18288   5.26288   0.08128   5.16128     17
RPP 3046   1.82309   2.77559   0.18288   5.26288   0.08128   5.16128     17
RPP 3047   1.50558   1.82309   0.18288   2.72288   0.08128   5.16128     17
RPP 3048   0.87059   1.18809   0.18288   2.72288   0.08128   5.16128     17
RPP 3049   0.55309   0.87059   0.18288   2.72288   0.08128   5.16128     17
RPP 3050   0.23558   0.55309   0.18288   2.72288   0.08128   5.16128     17
RPP 3051   0.23558   1.82309   2.72288   5.26288   0.08128   5.16128     17
RPP 3052   0.23050   0.23558   0.18288   2.72288   0.08128   2.54000     17
RPP 3053   0.23050   0.23558   2.72288   5.26288   0.08128   2.54000     17
RPP 3054   0.23050   0.23558   0.18288   2.72288   2.54000   5.16128     17
RPP 3055   0.23050   0.23558   2.72288   5.26288   2.54000   5.16128     17
RPP 3056   0.00000   2.14059   0.00000   0.10160   0.00000   2.54000     17
RPP 3057   2.14059   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 3058   0.00000   2.14059   5.42417   5.52577   0.00000   2.54000     17
RPP 3059   2.14059   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 3060   0.00000   2.14059   0.00000   0.10160   2.54000   5.16128     17
RPP 3061   2.14059   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 3062   0.00000   2.14059   5.42417   5.52577   2.54000   5.16128     17
RPP 3063   2.14059   5.54609   5.42417   5.52577   2.54000   5.16128     17
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RPP 3064   0.14922   2.14059   0.10160   2.72288   0.00000   0.08128     17
RPP 3065   0.14922   2.14059   2.72288   5.34924   0.00000   0.08128     17
RPP 3066   2.14059   5.39687   0.10160   5.34924   0.00000   0.08128     17
RPP 3067   0.14922   2.14059   0.10160   0.18288   0.08128   5.16128     17
RPP 3068   2.14059   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 3069   1.82309   2.14059   2.72288   5.26288   0.08128   5.16128     17
RPP 3070   1.18809   1.50558   2.72288   5.26288   0.08128   5.16128     17
RPP 3071   2.14059   2.77559   0.18288   5.26288   0.08128   5.16128     17
RPP 3072   0.23558   2.14059   0.18288   2.72288   0.08128   5.16128     17
RPP 3073   1.50558   1.82309   2.72288   5.26288   0.08128   5.16128     17
RPP 3074   0.87059   1.18809   2.72288   5.26288   0.08128   5.16128     17
RPP 3075   0.55309   0.87059   2.72288   5.26288   0.08128   5.16128     17
RPP 3076   0.23558   0.55309   2.72288   5.26288   0.08128   5.16128     17
RPP 3077   0.10160   2.14059   5.34924   5.42417   0.00000   5.16128     17
RPP 3078   2.14059   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 3079   0.23050   2.14059   5.26288   5.34924   0.08128   5.16128     17
RPP 3080   2.14059   5.31559   5.26288   5.34924   0.08128   5.16128     17
RPP 3081   0.14922   2.77559   3.67538   5.34924   0.00000   0.08128     17
RPP 3082   2.77559   5.39687   3.67538   5.34924   0.00000   0.08128     17
RPP 3083   0.23558   2.77559   3.99288   4.31038   0.08128   5.16128     17
RPP 3084   0.23558   5.31559   0.18288   2.72288   0.08128   5.16128     17
RPP 3085   0.23558   5.31559   2.72288   3.67538   0.08128   5.16128     17
RPP 3086   2.77559   5.31559   3.67538   5.26288   0.08128   5.16128     17
RPP 3087   0.23558   2.77559   3.67538   3.99288   0.08128   5.16128     17
RPP 3088   0.23558   2.77559   4.31038   4.62788   0.08128   5.16128     17
RPP 3089   0.23558   2.77559   4.62788   4.94538   0.08128   5.16128     17
RPP 3090   0.23558   2.77559   4.94538   5.26288   0.08128   5.16128     17
RPP 3091   0.14922   2.77559   3.35788   5.34924   0.00000   0.08128     17
RPP 3092   2.77559   5.39687   3.35788   5.34924   0.00000   0.08128     17
RPP 3093   2.77559   5.31559   3.35788   3.67538   0.08128   5.16128     17
RPP 3094   2.77559   5.31559   3.99288   4.31038   0.08128   5.16128     17
RPP 3095   0.23558   5.31559   2.72288   3.35788   0.08128   5.16128     17
RPP 3096   2.77559   5.31559   3.67538   3.99288   0.08128   5.16128     17
RPP 3097   2.77559   5.31559   4.31038   4.62788   0.08128   5.16128     17
RPP 3098   2.77559   5.31559   4.62788   4.94538   0.08128   5.16128     17
RPP 3099   2.77559   5.31559   4.94538   5.26288   0.08128   5.16128     17
RPP 3100   0.23558   2.77559   3.35788   5.26288   0.08128   5.16128     17
RPP 3101   0.23050   0.23558   3.35788   5.26288   2.54000   5.16128     17
RPP 3102   3.72809   5.39687   0.10160   2.72288   0.00000   0.08128     17
RPP 3103   3.72809   5.39687   2.72288   5.34924   0.00000   0.08128     17
RPP 3104   4.68059   4.99809   2.72288   5.26288   0.08128   5.16128     17
RPP 3105   3.72809   5.31559   0.18288   2.72288   0.08128   5.16128     17
RPP 3106   4.99809   5.31559   2.72288   5.26288   0.08128   5.16128     17
RPP 3107   4.36309   4.68059   2.72288   5.26288   0.08128   5.16128     17
RPP 3108   4.04558   4.36309   2.72288   5.26288   0.08128   5.16128     17
RPP 3109   3.72809   4.04558   2.72288   5.26288   0.08128   5.16128     17
RPP 3110   2.77559   3.72809   0.18288   5.26288   0.08128   5.16128     17
RPP 3111   0.23050   0.23558   0.18288   5.26288   0.08128   2.54000     17
RPP 3112   0.23050   0.23558   0.18288   5.26288   2.54000   5.16128     17
RPP 3113   3.41059   5.54609   0.00000   0.10160   0.00000   2.54000     17
RPP 3114   0.00000   3.41059   0.00000   0.10160   0.00000   2.54000     17
RPP 3115   3.41059   5.54609   5.42417   5.52577   0.00000   2.54000     17
RPP 3116   0.00000   3.41059   5.42417   5.52577   0.00000   2.54000     17
RPP 3117   3.41059   5.54609   0.00000   0.10160   2.54000   5.16128     17
RPP 3118   0.00000   3.41059   0.00000   0.10160   2.54000   5.16128     17
RPP 3119   3.41059   5.54609   5.42417   5.52577   2.54000   5.16128     17
RPP 3120   0.00000   3.41059   5.42417   5.52577   2.54000   5.16128     17
RPP 3121   3.41059   5.39687   0.10160   2.72288   0.00000   0.08128     17
RPP 3122   3.41059   5.39687   2.72288   5.34924   0.00000   0.08128     17
RPP 3123   0.14922   3.41059   0.10160   5.34924   0.00000   0.08128     17
RPP 3124   3.41059   5.39687   0.10160   0.18288   0.08128   5.16128     17
RPP 3125   0.14922   3.41059   0.10160   0.18288   0.08128   5.16128     17
RPP 3126   4.68059   4.99809   0.18288   2.72288   0.08128   5.16128     17
RPP 3127   3.41059   3.72809   0.18288   2.72288   0.08128   5.16128     17
RPP 3128   4.99809   5.31559   0.18288   2.72288   0.08128   5.16128     17
RPP 3129   4.36309   4.68059   0.18288   2.72288   0.08128   5.16128     17
RPP 3130   4.04558   4.36309   0.18288   2.72288   0.08128   5.16128     17
RPP 3131   3.72809   4.04558   0.18288   2.72288   0.08128   5.16128     17
RPP 3132   3.41059   5.31559   2.72288   5.26288   0.08128   5.16128     17
RPP 3133   2.77559   3.41059   0.18288   5.26288   0.08128   5.16128     17
RPP 3134   3.41059   5.44449   5.34924   5.42417   0.00000   5.16128     17
RPP 3135   0.10160   3.41059   5.34924   5.42417   0.00000   5.16128     17
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RPP 3136	3.41059	5.31559	5.26288	5.34924	0.08128	5.16128	17
RPP 3137	0.23050	3.41059	5.26288	5.34924	0.08128	5.16128	17
RPP 3138	2.77559	5.39687	0.10160	2.72288	0.00000	0.08128	17
RPP 3139	2.77559	5.39687	2.72288	5.34924	0.00000	0.08128	17
RPP 3140	3.09309	3.41059	0.18288	2.72288	0.08128	5.16128	17
RPP 3141	2.77559	3.09309	0.18288	2.72288	0.08128	5.16128	17
RPP 3142	2.77559	5.31559	2.72288	5.26288	0.08128	5.16128	17
RPP 3143	0.14922	2.77559	0.10160	2.72288	0.00000	0.08128	17
RPP 3144	0.14922	2.77559	2.72288	5.34924	0.00000	0.08128	17
RPP 3145	1.82309	2.14059	0.18288	2.72288	0.08128	5.16128	17
RPP 3146	2.45809	2.77559	0.18288	2.72288	0.08128	5.16128	17
RPP 3147	2.14059	2.45809	0.18288	2.72288	0.08128	5.16128	17
RPP 3148	0.23558	2.77559	2.72288	5.26288	0.08128	5.16128	17
RPP 3149	0.23558	2.77559	0.18288	2.72288	0.08128	5.16128	17
RPP 3150	2.45809	2.77559	2.72288	5.26288	0.08128	5.16128	17
RPP 3151	2.14059	2.45809	2.72288	5.26288	0.08128	5.16128	17
RPP 3152	2.77559	5.31559	0.18288	2.72288	0.08128	5.16128	17
RPP 3153	3.41059	3.72809	2.72288	5.26288	0.08128	5.16128	17
RPP 3154	3.09309	3.41059	2.72288	5.26288	0.08128	5.16128	17
RPP 3155	2.77559	3.09309	2.72288	5.26288	0.08128	5.16128	17
RPP 3156	0.00000	5.54609	0.00000	0.10160	2.54000	17.78000	17
RPP 3157	0.00000	5.54609	5.42417	5.52577	2.54000	17.78000	17
RPP 3158	0.00000	0.10160	0.10160	5.42417	2.54000	17.78000	17
RPP 3159	5.44449	5.54609	0.10160	5.42417	2.54000	17.78000	17
RPP 3160	0.10160	5.18160	0.10160	5.18160	0.00000	12.70000	17
RPP 3161	0.10160	5.18160	0.10160	5.18160	12.70000	17.78000	17
RPP 3162	0.10160	5.44449	5.18160	5.42417	0.00000	17.78000	17
RPP 3163	5.18160	5.44449	0.10160	5.18160	0.00000	17.78000	17
RPP 3164	0.00000	5.54609	0.00000	0.10160	17.78000	85.09000	17
RPP 3165	0.00000	5.54609	5.42417	5.52577	17.78000	85.09000	17
RPP 3166	0.00000	0.10160	0.10160	5.42417	17.78000	85.09000	17
RPP 3167	5.44449	5.54609	0.10160	5.42417	17.78000	85.09000	17
RPP 3168	0.10160	5.44449	0.10160	5.42417	17.78000	85.09000	17
RPP 3169	0.36449	5.44449	0.10160	5.18160	0.00000	12.70000	17
RPP 3170	0.36449	5.44449	0.10160	5.18160	12.70000	17.78000	17
RPP 3171	0.10160	0.36449	0.10160	5.18160	0.00000	17.78000	17
RPP 3172	0.00000	5.54609	0.00000	0.10160	2.54000	25.40000	17
RPP 3173	0.00000	5.54609	5.42417	5.52577	2.54000	25.40000	17
RPP 3174	0.00000	0.10160	0.10160	5.42417	2.54000	25.40000	17
RPP 3175	5.44449	5.54609	0.10160	5.42417	2.54000	25.40000	17
RPP 3176	0.10160	5.18160	0.10160	5.18160	0.00000	25.40000	17
RPP 3177	0.10160	5.44449	5.18160	5.42417	0.00000	25.40000	17
RPP 3178	5.18160	5.44449	0.10160	5.18160	0.00000	25.40000	17
RPP 3179	0.00000	5.54609	0.00000	0.10160	25.40000	85.09000	17
RPP 3180	0.00000	5.54609	5.42417	5.52577	25.40000	85.09000	17
RPP 3181	0.00000	0.10160	0.10160	5.42417	25.40000	85.09000	17
RPP 3182	5.44449	5.54609	0.10160	5.42417	25.40000	85.09000	17
RPP 3183	0.10160	5.44449	0.10160	5.42417	25.40000	85.09000	17
RPP 3184	0.36449	5.44449	0.10160	5.18160	0.00000	25.40000	17
RPP 3185	0.10160	0.36449	0.10160	5.18160	0.00000	25.40000	17
RPP 3186	0.00000	5.54609	0.00000	0.10160	2.54000	38.10000	17
RPP 3187	0.00000	5.54609	5.42417	5.52577	2.54000	38.10000	17
RPP 3188	0.00000	0.10160	0.10160	5.42417	2.54000	38.10000	17
RPP 3189	5.44449	5.54609	0.10160	5.42417	2.54000	38.10000	17
RPP 3190	0.10160	5.18160	0.10160	5.18160	0.00000	38.10000	17
RPP 3191	0.10160	5.44449	5.18160	5.42417	0.00000	38.10000	17
RPP 3192	5.18160	5.44449	0.10160	5.18160	0.00000	38.10000	17
RPP 3193	0.00000	5.54609	0.00000	0.10160	38.10000	85.09000	17
RPP 3194	0.00000	5.54609	5.42417	5.52577	38.10000	85.09000	17
RPP 3195	0.00000	0.10160	0.10160	5.42417	38.10000	85.09000	17
RPP 3196	5.44449	5.54609	0.10160	5.42417	38.10000	85.09000	17
RPP 3197	0.10160	5.44449	0.10160	5.42417	38.10000	85.09000	17
RPP 3198	0.36449	5.44449	0.10160	5.18160	0.00000	38.10000	17
RPP 3199	0.10160	0.36449	0.10160	5.18160	0.00000	38.10000	17
RPP 3200	0.00000	5.54609	0.00000	0.10160	2.54000	43.18000	17
RPP 3201	0.00000	5.54609	5.42417	5.52577	2.54000	43.18000	17
RPP 3202	0.00000	0.10160	0.10160	5.42417	2.54000	43.18000	17
RPP 3203	5.44449	5.54609	0.10160	5.42417	2.54000	43.18000	17
RPP 3204	0.10160	5.18160	0.10160	5.18160	38.10000	43.18000	17
RPP 3205	0.10160	5.44449	5.18160	5.42417	0.00000	43.18000	17
RPP 3206	5.18160	5.44449	0.10160	5.18160	0.00000	43.18000	17
RPP 3207	0.00000	5.54609	0.00000	0.10160	43.18000	85.09000	17

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 RPP 3208   0.00000   5.54609   5.42417   5.52577  43.18000  85.09000     17
 RPP 3209   0.00000   0.10160   0.10160   5.42417  43.18000  85.09000     17
 RPP 3210   5.44449   5.54609   0.10160   5.42417  43.18000  85.09000     17
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 RPP 3215   0.00000   5.54609   5.42417   5.52577   2.54000  50.80000     17
 RPP 3216   0.00000   0.10160   0.10160   5.42417   2.54000  50.80000     17
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 RPP 3218   0.10160   5.18160   0.10160   5.18160   0.00000  50.80000     17
 RPP 3219   0.10160   5.44449   5.18160   5.42417   0.00000  50.80000     17
 RPP 3220   5.18160   5.44449   0.10160   5.18160   0.00000  50.80000     17
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 RPP 3228   0.00000   5.54609   0.00000   0.10160   2.54000  55.88000     17
 RPP 3229   0.00000   5.54609   5.42417   5.52577   2.54000  55.88000     17
 RPP 3230   0.00000   0.10160   0.10160   5.42417   2.54000  55.88000     17
 RPP 3231   5.44449   5.54609   0.10160   5.42417   2.54000  55.88000     17
 RPP 3232   0.10160   5.18160   0.10160   5.18160  50.80000  55.88000     17
 RPP 3233   0.10160   5.44449   5.18160   5.42417   0.00000  55.88000     17
 RPP 3234   5.18160   5.44449   0.10160   5.18160   0.00000  55.88000     17
 RPP 3235   0.00000   5.54609   0.00000   0.10160  55.88000  85.09000     17
 RPP 3236   0.00000   5.54609   5.42417   5.52577  55.88000  85.09000     17
 RPP 3237   0.00000   0.10160   0.10160   5.42417  55.88000  85.09000     17
 RPP 3238   5.44449   5.54609   0.10160   5.42417  55.88000  85.09000     17
 RPP 3239   0.10160   5.44449   0.10160   5.42417  55.88000  85.09000     17
 RPP 3240   0.36449   5.44449   0.10160   5.18160  50.80000  55.88000     17
 RPP 3241   0.10160   0.36449   0.10160   5.18160   0.00000  55.88000     17
 RPP 3242   0.00000   5.54609   0.00000   0.10160   2.54000  60.96000     17
 RPP 3243   0.00000   5.54609   5.42417   5.52577   2.54000  60.96000     17
 RPP 3244   0.00000   0.10160   0.10160   5.42417   2.54000  60.96000     17
 RPP 3245   5.44449   5.54609   0.10160   5.42417   2.54000  60.96000     17
 RPP 3246   0.10160   5.18160   0.10160   5.18160  50.80000  60.96000     17
 RPP 3247   0.10160   5.44449   5.18160   5.42417   0.00000  60.96000     17
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 RPP 3249   0.00000   5.54609   0.00000   0.10160  60.96000  85.09000     17
 RPP 3250   0.00000   5.54609   5.42417   5.52577  60.96000  85.09000     17
 RPP 3251   0.00000   0.10160   0.10160   5.42417  60.96000  85.09000     17
 RPP 3252   5.44449   5.54609   0.10160   5.42417  60.96000  85.09000     17
 RPP 3253   0.10160   5.44449   0.10160   5.42417  60.96000  85.09000     17
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 RPP 3255   0.10160   0.36449   0.10160   5.18160   0.00000  60.96000     17
 RPP 3256   0.00000   5.54609   0.00000   0.10160   2.54000  85.09000     17
 RPP 3257   0.00000   5.54609   5.42417   5.52577   2.54000  85.09000     17
 RPP 3258   0.00000   0.10160   0.10160   5.42417   2.54000  85.09000     17
 RPP 3259   5.44449   5.54609   0.10160   5.42417   2.54000  85.09000     17
 RPP 3260   0.10160   5.44449   0.10160   5.42417   0.00000  85.09000     17
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268   200  19  184003   269   200  19  185003   270   200  19  186003   19
271   100  20  187003   272   100  21  188003   273   100  20  189003   19
274   100  19  190003   275   100  20  191003   276   100  20  192003   19
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283   100  20  199003   284   100  19  200003   285   100  20  201003   19
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