INITIAL EXPERIMENT TERRITORY DEFINITION

FOR LOCOMOTIVE EVALUATOR

PREPARED FOR:

FEDERAL RAILROAD ADMINISTRATION
OFFICE OF RESEARCH AND DEVELOPMENT
OFFICE OF RAIL SAFETY AND RESEARCH, RRD-33
WASHINGTON, DC

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TASK 5 REPORT

1. EVALUATOR PROJECT OVERVIEW

The effort on this project was divided into three phases. The purpose of Phase I was to investigate several railroad accidents that were attributed to poor train handling. The results of this investigation were used to establish a potentially difficult train handling scenario to be utilized on the Evaluator. In Phase II a 35mm motion picture film that closely approximates the accident scenario developed in Phase I was procured, and track geometry and audio cues data bases that relate to the film were generated. The purpose of Phase III was to map a "core film" of approximately 1 $^1/_2$ hours to be used on the Evaluator.

1.1. Investigation

The railroad accidents studied were selected from those investigated by the National Transportation Safety Board (NTSB). The specific accident dockets chosen were those in which the NTSB's concluded that poor train handling was "a contributing factor to the severity of the accident."

Using NTSB quarterly Railroad Accident Report Briefs, approximately 15 railroad accidents that met the above criteria were selected. Ten of the fifteen accident dockets were acquired. Nine of the railroad accidents occurred in 1979 and the remaining one in 1978.

The names and locations of the accidents are listed in Table 1. The pertinent train handling information for each accident is shown is Table 2. Data depicted in Table 2 can be divided into the following categories: pertinent track geometery parameters (grade and curvature), train make up, engineers' use of his train and locomotive brakes, and the weather conditions at the accident site.

TABLE 1

1. ST. LOUIS SAN FRANCISCO RAILROAD CO.
   Springfield, Missouri
   1/10/79

2. KANSAS CITY SOUTHERN RAILWAY CO.
   DeQueen, Arkansas
   1/13/79

3. UNION PACIFIC RAILROAD
   Dale Junction, Wyoming
   1/22/79

4. ST. LOUIS SOUTHWESTERN RAILWAY CO.
   Randles, Mississippi
   2/9/79

5. CHICAGO, MILWAUKEE, ST. PAUL
   & PACIFIC RAILROAD
   Takoma, Washington
   3/22/79

6. LOUISVILLE & NASHVILLE RAILROAD
   Crestview, Florida
   4/8/79

7. BURLINGTON NORTHERN
   Helena, Montana
   6/9/79

8. UNION PACIFIC RAILROAD
   Bankcroft, Idaho
   6/9/79

9. SOUTHERN RAILWAY
   Bibb Hill, Alabama
   6/25/79

10. CONSOLIDATED RAIL CORP.
    Weatherly, Pennsylvania
    10/29/77

TABLE 2

SUMMARY OF PERTINANT TRAIN HANDLING DATA

Accident Number*	1	2	3	4	5	6	7	8	9	10
1. GRADE										
Decending	X	X	X			X	X	X	X	X
Humpback & cresting a hill		X	X			X		X		X
$.1\% < \lvert GR \rvert < .5\%$	X									
$.5\% < \lvert GR \rvert < 1.0\%$	X		X							X
$1.0\% < \lvert GR \rvert < 2.0\%$	X	X				X				
$2.0\% < \lvert GR \rvert < 4.0\%$					X		X			
2. CURVATURE										
$> 2^{\circ}$				X						
$> 4^{\circ}$	X					X			X	
$> 6^{\circ}$		X			X		X			X
3. TRAIN BRAKING										
Independent					X					X
Dynamic		X								X
Automatic					X	X		X		X
4. TRAIN MAKEUP										
Poor						X		X		X
5. WEATHER										
Light	X			X		X		X	X	X
Dark		X	X		X		X			
Snow	X	X	X							

*Refer to Table 1 for Accident Identification.

It is apparent from the review of the accident reports that in 80 percent of the train handling accidents surveyed, the terrain consisting of decending grades greater than 1 percent and curvature exceeding 2 degrees were major contributing causes. In 50 percent of the accidents investigated, train engineers had recently made adjustments to their train and or locomotive brakes; suggesting that brake adjustments are critical. The Track Train Dynamics Study (TTDS) confirms that poorly planned applications of locomotive or train brakes while operating in undulating territory can produce high in-train forces, which can cause lading damage or equipment derailments. Both the TTDS and the results shown in Table 2 confirm that operating a train on descending grades greater than 1 percent can produce difficult train handling situations. Therefore, combinations of grades greater than 1 percent and curvatures greater than 2 degrees will produce difficult train handling situations.

When locomotive engineer's statements concerning their perceptions and reactions just prior to and during emergency brake applications are evaluated, it is typically found that these engineers thought they had their trains under control. Therefore, they did not take any corrective action to attempt to minimize in-train forces. This is an example of the short time period for slack action within the train to create large longitudinal forces that ultimately could cause segments of the train to derail. This also exemplifies the long time period it takes for this slack action to travel to the locomotive where the engineer can feel the run in.

When engineers operate their trains on undulating grades with multiple curves and do not maintain speed control, it may become increasingly difficult for them to regain control. In fact, the TTDS emphasizes the difficulty engineers have in attempting to regain speed control of the train once large longitudinal oscillations begin to develop within the train. In these cases, the TTDS recommends that the engineer stop as soon as possible. This recommendation is interesting because, in most

derailments, the engineer usually has not perceived that he has lost control until he hears the air discharging from the locomotive brake pipe, signifying an emergency brake application. At this time, it is too late for the engineer to take any corrective action.

The overall review of the data in Table 2 clearly supports the findings of the TTDS. Table 2 also shows that trains operating in the hours of darkness in territories consisting of varying grades and curvatures further compound the overall difficulties of train handling.

1.2 Conclusion

Train handling difficulties are greatly magnified when the terrain that must be traversed consists of undulating grades or descending grades that exceed 1 percent in concert with varying curves that exceed 2 degrees. In addition, the length and the make-up of trains are important. Poor train make-up usually affects the longitudinal stability of the train, especially for long trains, and this instability can produce large in-train forces. These uncontrolled forces can develop into a difficult train handling situation that could possibly be beyond the capabilities of many experienced engineers.

As a result of the Phase I survey and the TTDS, a potentionally difficult train handling scenario to be implemented for the Evaluator must include undulating grades greater than 1 percent in conjunction with curves greater than 2 degrees.

2. DEVELOPMENT OF ACCIDENT SCENARIO

Film selection for the difficult train handling scenario for the Evaluator is crucial because the film provides to the engineer trainee visual information with respect to motion, track features and obstacles, signal aspects, and background scenery. To portray (to the engineer trainee) a realistic picture on the screen, the film should provide continuity of background scenery. Therefore, it is desirable to select continuous film

footage that would approximate one of the difficult train handling accidents that were surveyed as part of Phase I. If continous film footage cannot be located then a film library must be developed. This film library should include short segments of film footage of each type of track, i.e., turns in both directions and of varying curvatures, tangent track sections, and possibly sections of track where changes in grade can easily be discerned.

The film library concept requires two duplicate films. The films would be mounted on the two separate projectors used for the Evaluator. This would allow film editing of the track section library by simply switching between the two synchronized projectors. The synchronization of the motion picture projectors on the Evaluator will be under computer control. The film sequences will be selected prior to beginning the experiment. This permits the computer to position the off-line projector to the appropriate film frame. When the two projectors are synchronized frame for frame, the computer will then transfer control to the projector that has the next film sequence.

3. FILM SELECTION

Copies of Southern Pacific's Pine Bluff 35mm films have been acquired. This film was produced for use on a train simulator located in their Engineer Training Center in Cerritos, CA. The film is their latest production and portrays over 60 miles of trackage photographed on their Cotton Belt Line in Arkansas. This film has been reviewed to evaluate its compatibility for use with the Evaluator. The film quality is excellent and the terrain covered has multiple scenes that have similar characteristics to the accidents portrayed in Table 2. The Pine Bluff films also have sections of continuous footage that closely approximate the multiple curves found at the Crestview, FL accident site that occurred on April 1979 on the Louisville & Nashville Railroad.

The actual grades of the SP films are not the same as those found at the Crestview accident. It apears that the grade data of this film can be adjusted to approximate closely the grade of the Crestview site, thus no serious problem exists in using the SP film. The grades found at the Crestview accident site varied between +/- 1 percent. The wavelength of these variations is on the order of 1 to 2 miles; therefore, the grade data base developed for the film can be adjusted to match closely the difficult grades found at the Crestview accident without creating any false grade cues to the operator of the Evaluator. It is anticipated that adjustments to the track geometry data base in curvature, cross level, and grade can be implemented without creating false cues.

4. DATA BASE DEVELOPMENT FOR CORE FILM

The Pine Bluff films acquired from SP had not been completely developed for use on their simulator; therefore, data bases for all track geometry parameters had to be extracted from different documents. Some of these documents had conflicting information. The majority of these conflicts were associated with the lengths of the different segments of a curve, i.e., lengths of entrance spirals, curve bodies, and exit spirals of several curves were not consistant. In most cases, these conflicts were not significant and trade-offs were made between conflicting information. The resulting data base is now consistant with all visual cues.

5. SOUTHERN PACIFIC DATA BASE

The photographing of the SP films were taken on their Cotton Belt Line in Arkansas. The camera used had a 25mm lens and exposed 20 picture frames/sec.

Nominal speeds for the camera train were 40 mph for the "A" film (core film) with one exception in the area of milepost 337 and 20 mph for alternate events on the "B" film.

SP recorded the speed of their camera platform vehicle in conjunction with camera frame signals. These signals were then processed to generate speed calibration data. This speed calibration data will be to remove the effects of speed variation of the camera vehicle when the film is projected onto the motion picture screen for the Evaluator.

5.1 Milepost Data

The distances between mileposts along the track were taken from SP's profile charts, and this information is tabulated in Appendix A.

The number of picture frames between mileposts were taken from the track log shown in Appendix D. The ratio of picture frames to the distance between mileposts is the average number of frames per foot over the designated mile.

5.2 Grade and Elevation Data

Grade and elevation data was taken from SP's profile charts. These data are tabulated in Appendix B. Referring to Appendix B, the far left column is the position of the grade slope break point. The position is given as the number of feet from the last milepost; i.e., milepost 281 + 2 feet.

The data shown in the second column is the percent grade that will be traversed getting to the next grade break point. The third column is elevation data in feet above sea level found at the current grade breakpoint. The fourth column is the film frame number that depicts the location of the grade breakpoint.

5.3 Curvature and Crosslevel Data

The curvature data was taken from SP's profile and track charts; there are curves where these two charts were inconsistent. In these areas the data was manually adjusted to an acceptable value.

The crosslevel values were based on Superelevation and Speeds on Curves Table. A copy of this table is shown in Figure 1. Curvature and crosslevel data are tabulated in Appendix C.

Degree of Curvature	Superelevation	Max Permissive Speed (MPH)
30'	1"	81
1:00'	2"	80
1:30'	4"	79
2:00'	5 1/4"	75
2:30'	5 3/4"	68
3:00'	6"	64
3:30'	6"	60
4:00'	6"	56
4:30'	5 3/4"	52
5:00'	5 1/2"	48
5:30'	5 1/2"	45
6:00'	5"	43

FIGURE 1. EXCERPTS FROM SOUTHERN PACIFIC LINES COMMON STANDARD SUPERELEVATIONS AND SPEEDS ON CURVES

Referring to Appendix C, page 1, the column marked Curve Location indicates the location of the curve designated as 281.72. This notation will be used for curve locations in Appendices D, E, F, and G.

The line under the curve locator 281 + 3792 means that the beginning of the spiral of the curve is located 3,792 feet past milepost 281. The next column to the right indicates the curve is 1° to the left. The next column to the right is the crosslevel (super elevation) is 2", outside rail high. The last column indicates the film frame 1377 is where the spiral begins.

Likewise, the next line starts the curve body at a location 3,948 feet past MP 281 and film frame 1434 is where the curve body begins. Curve body ends and the trailing spiral begins at 4484 feet past MP 281. At this point the film frame number is 1630. The trailing spiral ends and the tangent track begins at 4,464 feet past MP 281. The film frame number at this point is 1687.

These data bases do not include rate of change of crosslevel and curvature in the entrance and exit spirals of a curve. A linear taper of these parameters over their respective distances should be adequate for the simulation program.

5.4 Core Film Map

The 35mm film footage provided by SP was viewed using a movieola. All pertinent data on the film was then mapped using the frame counter on the Movieola as a reference. With respect to milepost data there are two film frame numbers recorded. A negative frame number listed for a milepost sign indicates the last frame of film viewed on the movieola that had any portion of the milepost in it. Positive frame numbers listed for mileposts indicate the first frame of the film viewed on the movieola that has no visible portion of the milepost.

The camera optics and the film mapping techniques used for recording an events frame number as the events disappear from the

screen of the movieola create a problem in positioning the track geometry cues to the motion base of the Evaluator. To correct this, film frame numbers for events that are to be used as cues to the Evaluator's motion base are delayed approximately 32 ft. This delay in distance is necessary to allow the excitation of the Evaluator's motion base caused by the event to be synchronized with the lead wheels of the locomotive simulator.

5.4.1 Visual Cues

Visual cues are tabulated in Appendix E and they are a subset of the tabulated data in Appendix D. Engineers training on the Evaluator will use visual cues to determine when to activate the horn on the locomotive for road crossings, speed boards will be used to set train speed limits, wayside signals will be used for train control, and mileposts will be used for positional data.

5.4.2 Audio Cues

Audio cues are another subset of the tabulated data in Appendix D. These cues will be used to initiate sounds that are generated by objects on the tracks like switch points, frogs, ballast decked bridge, etc., and for noises associated with equipment located along the railroad right-of-way such as crossing signal bells, passing, standing or moving railroad vehicles on adjacent tracks, passing structures located close to the tracks, etc.

Audio cues are tabulated in Appendix F.

5.4.3 Motion Base Cues

Motion base cues are tabulated in Appendix G and are a subset of Appendix D.

Motion base cues are track features that would create vertical or lateral forcing functions to the wheels on a locomotive, thus causing the locomotive suspension system to

bounce, roll or yaw. Because these disturbances are a part of the locomotive traveling over different track features, these forcing functions are needed to realistically drive the motion base of the Evaluator.

With only one exception, the motion base parameters have been delayed in distance approximately 32 feet after the event disappears from the screen. The exception is the locations of entrance spirals, curve bodies, and exit spirals. The actual location of these features on the film are subjective and a correcton of 32 feet would be insignificant and, furthermore, would have very little if any effect on the overall train simulation programs.

5.5 Film Calibration Data

Film calibration constants are tabulated in Appendix H. These data are printed whenever the speed constant has changed by more than $\pm$ 2.5 percent. Referring to Appendix H, the first and third columns are film frame numbers and the second and fourth columns are camera vehicle velocities (feet/sec). To calculate the number of frames/foot for an example taken from film number 33 and its respective speed of the camera vehicle is found to be 59.78 f/s.

The number of film frames/foot(k) can be calculated by:

$$K = \frac{\text{camera frame rate*}}{\text{camera vehicle speed}} = \frac{20}{59.78} = .3346 \ \frac{\text{frame}}{\text{foot}}$$

*Camera frame rate is 20 frame/sec.

Speed constant data is provided in Appendix H and on a nine track tape. The tape consists of one file of data which contains both the "A" and the "B" film data. The "A" data begins at record 0 and ends shortly after record 401_8.* The "B" data begins at record 557_8 and ends at record 716_8. Record length is 512 bytes which is equal to 256 16 bit words.

* 401_8 is 401 base 8 or 257 base 10.

The first record of each films' data contains four header words which are defined as follows:

Word 0	-	Distance between wheel pulses in feet scaled B3 (i.e., x xxx.xxx xxx xxx xxx). Thus the decimal value for film "A:" is 1.2788 ft.
Word 1	-	Most significant digits of starting frame
Word 2	-	Least significant digits of starting frame
Word 3	-	Spare

Speed data immediately follows the header words. Speed data consists of two word records for every 0.002 miles of film. The first word is the film frame number associated with that location and the second word is the speed constant (k) which represents the speed of the filming car at that location.

The dimensions of k are 'camera sync pulses/foot' x 2048 (2 ** 11). There are 2.5 sync pulses/frame and there are 50 sync pulses/second; thus, conversion from sync pulses/foot to ft/sec or frames/ft is readily accomplished. For example, the formula for conversion to ft/sec is

$$V = (50)\ (2048)/k$$

Using this formula and the first k from the "A" film results in a train filming speed of 52.81 ft/sec or 36 mph.

5.5.1 Speed Limit

Along the track right-of-way are speed boards that display the maximum speed allowed on the track section. The speed limits may be lower than the posted speeds as viewed on the wayside "speed boards." A mechanism of implementing a lower speed limit is to use a Train Order.

The locations of each wayside speed board and its displayed speed limit are tabulated in Appendix I.

5.5.2 Train Makeup

The overall concept of this project is to reproduce a scenario similar to the Crestview, FL accident. Therefore, physical parameters for each rail vehicle involved in this accident are tabulated in Appendix J.

Referring to Appendix J, it can be found that each vehicle in the consist has the following data:

- Position in the train
- Length
- Weight (empty + load)
- Type of brakes valves (AB, ABD, or ABDW)
- Bearing types

5.6. Difficult Train Handling Scenario

The difficult train handling scenario to be implemented will use continuous film footage for the visual, and use the adjusted track geometry data base to allow the development of a replica of the terrain found at the Crestview, FL accident site.

The train handling scenario will start at milepost 337 (film frame #96497) and end at milepost 342 + 4980 ft (film frame #114694).

Prior to the on-line motion picture projector reaching film frame #114694, the off-line projector will be rewound and positioned to film frame 3. Both projectors have mounted on them identical core films. The on-line projector will be near the end of its film and the off-line projector will be at the beginning of its film.

When the on-line projector reaches film frame #114694 it will be turned off and rewound, and the off-line projector will be turned on. There will be a flicker on the motion picture screen due to the mismatch of background scenery as the two projectors are exchanged.

The track geometry data base for the two core films, mounted on both projectors, must always be in synchronism with their respective film positions (frame numbers). The track geometry data bases for each core film are identical. The only exception will be when the alternate event has been selected. When this is to occur, approximately 7 miles of grade data are removed from the core film data base and replaced by the grade data base developed for the difficult train handling scenario (see Appendix K).

Track geometry data bases for the end and beginning of the core films, film frame numbers 114694 and 3, respectively, must be continuous to avoid transient conditions in the simulation program as the projectors are exchanged.

The track geometry data bases are continuous for both the beginning and end of the core film except for elevation. The correction for the difference in elevation will be made in software. The correction is to take the final elevation (frame #114694) minus the initial elevation (frame 3) and add this value to all elevation stations. The constant (K) for a core film repeat will be:

K = 180.84 (frame #114694 core film)
- 210.8 (frame 3 core film) = -29.96 feet

The value of -29.96 must be added to frame 3 and all subsequent elevation data. The constant (K) for a core film repeat after the difficult train handling scenario is used is:

K = 222.35 (frame #114694) - 210.8 (frame 3) = +11.35 feet

When the difficult train handling scenario is to be implemented, the core film grade data must be exchanged with the difficult train handling grade data base. The instructor for the Evaluator must make the decision to use the new data prior to film frame #96497. If the decision is not to use it, nothing has

to be done. When the decision is to use it, then the new grade data base must be exchanged with the core film data base at frame #96497. The difficult train handling grade data base is tabulated in Appendix K.

Speed boards shown on the film are properly sequenced to regulate train speeds to 25 mph prior to entering the pseudo Crestview scenario. This is the desired speed for the train between mileposts 337 and 342.

A train order is necessary, and must be issued to engineer trainees using the Evaluator for speed restriction not to exceed 25 mph between mileposts 339 and 342. This train order is required because there are multiple speed boards within this trackage that display speed limits greater than 25 mph. Speed board locations and their respective speed limits are tabulated in Appendix J.

Appendix J details the physical data on locomotives and each trailing vehicle that was in the consist for the Crestview, FL accident.

APPENDIX A
MILE POST DATA

DISTANCE BETWEEN MILEPOST

MP to MP	Distance (Feet)	Distance Cummulative (Feet)	Number of Frame	Frame/foot
281-282	5263.0	5263.0	1894	0.3599
282-283	5224.5	10487.5	1895	0.3627
283-284	5728.0	16215.5	2030	0.3544
284-285	4839.5	21055.0	1693	0.3498
285-286	5326.5	26381.5	1853	0.3479
286-287	5261.0	31642.5	1923	0.3655
287-288	5172.5	36815.0	1777	0.3435
288-289	5349.0	42164.0	1854	0.3466
289-290	5091.5	47255.5	1827	0.3588
290-291	5421.5	52677.0	1818	0.3353
291-292	5229.0	57906.0	1846	0.3530
292-293	5356.5	63262.5	1864	0.3480
293-294	5304.5	68567.0	1835	0.3459
294-295	5200.0	73767.0	1750	0.3365
295-296	5356.0	79123.0	1792	0.3346
296-297	5150.5	84273.5	1805	0.3505
297-298	5331.0	89604.6	1783	0.3345
298-299	5375.4	94980.0	1798	0.3345
299-300	5216.5	100196.5	1796	0.3443
300-301	5346.5	105543.0	1812	0.3389
301-302	5134.6	110677.6	1677	0.3266
302-303	5788.0	116465.6	1817	0.3139
303-304	5391.4	121857.0	1879	0.3485
304-305	5176.2	127033.2	1815	0.3506
305-306	5296.3	132329.5	1765	0.3333
306-307	5352.5	137682.0	1845	0.3447
307-308	5203.0	142885.0	1800	0.3460
308-309	5316.5	148201.5	1803	0.3391
309-310	5238.5	153440.0	1842	0.3516
310-311	5251.0	158691.0	1775	0.3380

MP to MP	Distance (Feet)	Distance Cummulative (Feet)	Number of Frame	Frame/foot
311-312	5446.0	164137.0	1853	0.3402
312-313	5036.3	169173.3	1719	0.3413
313-314	5454.7	174628.0	1816	0.3329
314-315	5305.0	179933.0	1876	0.3536
315-316	5213.0	185146.0	1820	0.3491
316-317	5249.0	190395.0	1820	0.3467
317-318	5272.7	195667.7	1795	0.3404
318-319	5397.3	201065.0	1846	0.3420
319-320	5595.0	206660.0	1938	0.3464
320-321	4839.0	211499.0	1672	0.3455
321-322	5285.0	216784.0	1749	0.3309
322-323	5222.0	222006.0	1837	0.3518
323-324	5332.2	227338.2	1831	0.3434
324-325	5155.8	232494.0	1760	0.3414
325-326	4869.2	237363.2	1688	0.3467
326-327	5325.0	242688.2	1999	0.3754
327-328	5315.0	248003.2	1942	0.3652
328-329	5301.0	253304.2	1798	0.3392
329-330	5103.0	258407.2	1731	0.3392
330-331	5368.0	263775.2	1855	0.3456
331-332	5182.2	268957.4	1779	0.3433
332-333	5311.8	274269.2	1824	0.3433
333-334	5316.0	279585.2	1884	0.3544
334-335	5197.0	284782.2	1898	0.3652
335-336	5393.0	290175.2	1969	0.3652
336-337	5267.7	295442.9	2186	0.4150
337-338	5724.3	301167.2	2376	0.4150
338-339	4820.5	305987.7	2230	0.4626
339-340	5125.5	311113.2	2294	0.4476
340-341	5430.0	316543.2	1904	0.3506
341-342	5272.0	321815.2	1842	0.3494

APPENDIX B
GRADE AND ELEVATION

MP	Grade	Elevation	Frame #
0281 + 0002	0.000	210.8	3
0281 + 1180	-0.034	210.8	427
0281 + 4880	-0.108	209.5	1,758
0282 + 0817	-0.109	208.2	2,488
0282 + 4117	0.000	204.6	3,685
0282 + 4417	-0.109	204.6	3,794
0283 + 2393	0.000	201.1	4,559
0283 + 2593	-0.023	201.1	4,731
0283 + 4793	+0.790	200.6	5,529
0283 + 5493	+0.125	206.1	5,783
0284 + 0165	-0.622	206.6	5,879
0284 + 1065	-0.133	201.0	6,193
0284 + 1665	+0.350	200.2	6,403
0284 + 1865	+0.850	200.9	6,473
0284 + 2265	+0.107	204.3	6,613
0284 + 3665	-0.822	205.8	7,103
0284 + 4465	-0.450	198.4	7,383
0284 + 4665	+0.033	197.5	7,453
0285 + 0725	+0.550	197.8	7,766
0285 + 0925	+0.822	198.9	7,836
0285 + 1825	+0.320	206.3	8,149
0285 + 2825	+0.980	209.5	8,497
0285 + 3325	VC*	214.4	8,671
0285 + 3925	-0.730	214.4	8,879
0285 + 4225	-0.960	212.2	8,984
0285 + 5025	+0.050	204.5	9,262
0285 + 5225	+1.000	204.6	9,332
0286 + 0599	VC	211.6	9,586
0286 + 1199	-0.410	211.6	9,805
0286 + 1899	-0.073	207.7	10,061
0286 + 2039	+0.388	207.6	10,112

*Vertical curve

MP	Grade	Elevation	Frame #
0286 + 2399	+1.110	209.0	10,244
0286 + 3099	+0.970	216.8	10,500
0286 + 5199	VC	237.2	11,267
0287 + 0438	-0.870	236.2	11,440
0287 + 1138	-1.140	230.1	11,681
0287 + 1938	-0.600	221.0	11,956
0287 + 2838	+0.400	219.8	12,265
0287 + 3038	+1.030	220.6	12,334
0288 + 0165	+0.300	234.0	13,124
0288 + 0665	+0.106	235.5	13,298
0288 + 2265	-0.165	237.2	13,852
0288 + 4265	+0.475	233.9	14,546
0288 + 5065	+0.375	237.7	14,823
0289 + 0116	-0.650	239.2	14,964
0289 + 0516	-1.020	236.6	15,107
0289 + 1716	-0.560	224.4	15,537
0289 + 2216	+0.300	221.6	15,717
0289 + 2716	+0.820	223.1	15,896
0289 + 3316	+0.411	228.0	16,111
0289 + 4216	-0.440	231.7	16,434
0289 + 4916	+0.200	228.6	16,685
0290 + 0125	+1.110	229.2	16,790
0290 + 1125	VC	240.3	17,125
0290 + 1525	-1.050	240.9	17,259
0290 + 2925	-0.500	226.2	17,729
0290 + 3225	-0.100	224.7	17,829
0290 + 3625	-0.266	224.3	17,963
0290 + 4025	-1.010	223.5	18,098
0291 + 0903	-0.700	199.2	18,885
0291 + 1203	-0.560	197.1	18,991
0291 + 2703	-0.345	188.7	19,520
0292 + 4974	0.000	162.8	22,160
0293 + 1318	-0.030	162.8	22,732
0293 + 1518	-0.840	162.2	22,801

MP	Grade	Elevation	Frame #
0293 + 2318	-0.217	155.5	23,078
0293 + 2918	-0.050	154.2	23,285
0293 + 3618	0.000	150.7	23,528
0293 + 4818	+0.066	150.7	23,943
0294 + 0113	-0.466	151.1	24,149
0294 + 0413	0.000	149.7	24,250
0294 + 4713	-0.510	149.7	25,699
0295 + 0513	0.000	154.8	26,033
0295 + 0713	-0.350	154.3	26,100
0295 + 2113	0.000	149.6	26,569
0296 + 2257	-0.400	149.6	28,443
0296 + 2557	+0.850	150.8	28,548
0296 + 3157	-0.018	156.1	28,758
0296 + 4257	+0.366	155.9	29,143
0297 + 0007	+0.550	159.3	29,460
0297 + 1106	+0.290	159.9	29,834
0297 + 3406	+0.460	163.7	30,616
0298 + 0476	+0.090	170.6	31,426
0298 + 2676	+0.680	172.5	32,150
0298 + 3676	+0.350	179.3	32,479
0299 + 0900	+1.090	188.3	33,349
0299 + 2000	+0.917	200.3	33,727
0299 + 2600	+0.530	205.8	33,933
0299 + 2900	+0.190	207.4	34,037
0299 + 4500	0.000	210.5	34,587
0300 + 0184	+0.922	210.5	34,786
0300 + 1884	+0.300	227.1	35,474
0300 + 2584	+0.944	228.9	35,711
0300 + 3484	+0.829	237.4	36,016
0300 + 5184	VC	251.5	36,592
0301 + 0437	-0.886	250.1	36,790
0301 + 4640	-1.074	212.0	38,162
0302 + 2866	-0.600	186.9	39,157
0302 + 5466	+0.571	183.3	39,331

MP	Grade	Elevation	Frame #
0302 + 6166	+0.067	187.3	40,116
0303 + 0515	-0.433	187.8	40,320
0303 + 1415	0.000	183.8	40,634
0303 + 4115	+0.476	183.8	41,575
0304 + 0823	+0.969	193.8	42,309
0304 + 2423	+0.042	209.3	42,870
0304 + 3623	+0.926	209.8	43,290
0304 + 5123	0.000	223.7	43,816
0305 + 0847	-1.000	223.7	44,117
0305 + 1347	-0.608	218.7	44,284
0305 + 2547	-0.273	211.4	44,684
0305 + 3247	+0.067	209.7	44,917
0305 + 3547	+0.667	209.95	45,017
0305 + 3847	+1.000	211.9	45,117
0306 + 2651	+0.317	252.9	46,514
0306 + 3251	+0.900	254.8	46,720
0306 + 3951	+0.201	261.1	46,962
0306 + 5132	-0.390	263.4	47,370
0307 + 0298	VC	264.9	47,548
0307 + 0698	-0.600	265.4	47,686
0307 + 1498	-0.050	260.6	47,963
0307 + 2898	+0.520	259.9	48,448
0307 + 3398	+1.167	262.5	48,621
0307 + 4298	VC	273	48,932
0307 + 5098	-0.785	274.4	49,209
0308 + 1195	-1.023	264.3	49,650
0308 + 3395	-0.470	241.8	50,396
0308 + 4395	0.000	237.1	50,735
0309 + 4789	+0.277	237.1	51,213
0309 + 1779	+0.425	241.0	51,660
0309 + 2179	+0.880	242.4	51,798
0309 + 3879	+1.000	257.4	52,383
0309 + 4679	+0.840	265.4	52,658
0310 + 1040	+1.000	281.8	53,242

MP	Grade	Elevation	Frame #
0310 + 4131	+0.820	308.8	54,286
0311 + 0089	+1.000	319.5	54,695
0311 + 1189	+0.800	330.5	55,070
0311 + 1789	VC	335.3	55,274
0311 + 4489	-1.000	331.8	56,192
0312 + 0243	-0.880	319.8	56,601
0312 + 1343	VC	310.12	56,976
0312 + 1743	0.000	308.0	57,113
0313 + 1507	VC	308.0	58,739
0313 + 1907	-0.960	306.0	58,872
0313 + 2707	-1.000	298.32	59,138
0313 + 3707	-0.500	288.32	59,471
0314 + 0752	0.000	275.82	60,319
0314 + 2252	+0.060	275.82	60,849
0314 + 2552	+0.490	276.0	60,955
0314 + 3852	+0.920	282.0	61,415
0314 + 5252	+0.700	295.0	61,910
0315 + 1647	+0.960	306.5	62,504
0315 + 3847	+0.140	327.5	63,272
0315 + 4547	+0.820	328.5	63,516
0316 + 0734	+0.970	340.0	64,002
0316 + 1434	VC	346.8	64,244
0316 + 1734	-1.000	346.7	64,348
0316 + 4034	-0.840	323.7	65,141
0317 + 0585	-0.950	308.6	65,763
0317 + 1185	-0.880	302.9	65,963
0317 + 2685	-1.000	289.7	66,462
0317 + 3885	-0.530	277.7	66,861
0320 + 1820	-0.470	248.0	71,777
0320 + 4220	-0.070	236.7	72,606
0321 + 0881	-0.550	235.65	73,112
0321 + 2181	-0.206	228.5	73,542
0322 + 2096	0.000	217.8	75,306
0322 + 3096	+0.176	217.8	75,658

MP	Grade	Elevation	Frame #
0322 + 5196	-0.460	221.5	76,397
0323 + 1274	0.000	215.5	76,843
0323 + 3574	-0.500	215.5	77,633
0323 + 4774	-0.100	209.45	78,045
0324 + 1842	-0.700	207.07	78,866
0325 + 0368	-1.000	179.38	80,215
0325 + 2925	-0.880	156.4	81,011
0325 + 3639	-0.150	150.12	81,259
0326 + 1190	0.000	146.5	82,132
0327 + 0025	-0.500	146.5	83,694
0327 + 1645	0.000	138.4	84,366
0327 + 2625	-0.100	138.4	84,772
0327 + 4125	-0.075	137.0	85,394
0330 + 1206	0.000	118.0	89,541
0330 + 4306	-0.050	118.0	90,654
0330 + 5306	0.000	117.5	90,988
0331 + 4780	+0.400	117.5	92,661
0332 + 0460	0.000	121.0	92,947
0332 + 1160	-0.400	121.0	93,187
0332 + 2660	+0.000	115.0	93,702
0336 + 1580	+0.544	116.0	101,020
0336 + 2740	0.000	121.35	101,501
0336 + 3600	+0.110	121.35	101,858
0337 + 0080	+0.700	123.30	102,583
0337 + 2120	+0.870	137.65	103,430
0337 + 2620	+1.000	142.0	103,637
0337 + 3000	+0.000	146.0	103,795
0337 + 3080	-0.300	146.0	103,828
0337 + 5080	-0.600	140.0	104,658
0337 + 5580	-0.560	137.0	104,866
0338 + 0350	-0.450	134.2	105,088
0338 + 1450	-0.500	128.8	105,597
0338 + 2950	+0.000	119.8	106,291
0338 + 4050	-0.300	119.8	106,801

MP	Grade	Elevation	Frame #
0338 + 4150	-0.500	119.5	106,846
0339 + 1340	-0.073	111.0	107,756
0339 + 3640	+0.225	109.32	108,785
0339 + 4440	+0.100	109.5	109,143
0340 + 0200	+0.000	110.5	109,520
0340 + 1400	+0.350	110.5	109,941
0340 + 2500	+1.000	114.0	101,326
0340 + 4000	VC	130.0	110,852
0340 + 4400	+0.000	132.0	110,990
0341 + 0770	+0.500	132.0	111,623
0341 + 0970	+0.830	133.0	111,693
0341 + 1570	VC	138.0	111,903
0341 + 1970	-0.727	139.0	112,042
0341 + 3070	-0.285	131.0	112,127
0341 + 3770	0.000	129.0	112,671
0341 + 4770	+0.840	129.0	113,021
0341 + 5170	+1.000	132.36	113,161
0342 + 1698	+0.880	150.36	113,707
0342 + 2498	+1.000	157.40	113,948
0342 + 3698	+0.880	169.4	114,309
0342 + 4980	+0.000	180.84	114,694

APPENDIX C
CURVATURE AND CROSSLEVEL

CURVE DATA

Curve Location (Mile Post)	Description	Curve Body	X-Level	Frame #
281.72				
281 + 3792.0	Beg Spiral			1377
281 + 3948.0	Beg Curve Body	1° 00' lt	4"	1434
281 + 4484.0	Beg Spiral			1630
281 + 4640.0	Beg Tan			1687
283.15				
283 + 0814.0	Beg Spiral			4045
283 + 1048.0	Beg Curve Body	1° 32' rt	2 1/2"	4142
283 + 1812.0	Beg Spiral			4458
283 + 2046.0	Beg Tan			4554
284.22				
284 + 1179.8	Beg Spiral			6235
284 + 1335.8	Beg Curve Body	1° 05' lt	2"	6289
284 + 1985.5	Beg Spiral			6515
284 + 2141.5	Beg Tan			6568
286.44				
286 + 2338.9	Beg Spiral			10175
286 + 2638.9	Beg Curve Body	3° 00' lt	6"	10288
286 + 4115.1	Beg Spiral			10844
286 + 4262.1	Beg Tan			10899
286.85				
286 + 4465.3	Beg Spiral			10956
286 + 4755.3	Beg Curve Body	4° 00' rt	6"	11074
286 + 5497.0	Beg Spiral			11376
286 + 5824.0	Beg Tan			11509
287.37				
287 + 1931.3	Beg Spiral			11839
287 + 1997.3	Beg Curve Body	2° 00 lt	5 1/4"	11916
287 + 2065.1	Beg Spiral			11995
287 + 2131.1	Beg Tan			12072
289.0				
289 + 014.17	Beg Spiral			14940
289 + 0346.2	Beg Curve Body	2° 00' rt	5 1/4"	15057
289 + 1667.2	Beg Spiral			15524
289 + 1999.2	Beg Tan			15641
289.68				
289 + 3583.0	Beg Spiral			16146
289 + 3931.0	Beg Curve Body	2° 00' lt	5 1/4"	16280
289 + 4771.7	Beg Spiral			16604
289 + 5119.7	Beg Tan			16738

Curve Location (Mile Post)	Description	Curve Body	X-Level	Frame #
290.22				
290 + 1148.5	Beg Spiral			17120
290 + 1363.5	Beg Curve Body	2° 30' lt	5 3/4"	17217
290 + 1366.8	Beg Spiral			17218
290 + 1581.8	Beg Tan			17316
290.67				
290 + 3558.0	Beg Spiral			17889
290 + 3786.0	Beg Curve Body	1° 54' rt	5 1/4"	17979
290 + 4099.4	Beg Spiral			18103
290 + 4327.4	Beg Tan			18193
291.79				
291 + 4195.3	Beg Spiral			19980
291 + 4580.3	Beg Curve Body	3° 02' lt	6"	20143
291 + 4922.5	Beg Spiral			20288
291 + 5307.5	Beg Tan			20451
293.11				
293 + 0576.2	Beg Spiral			22410
293 + 0849.2	Beg Curve Body	2° 00' rt	5 1/4"	22523
293 + 1470.8	Beg Spiral			22780
293 + 1743.8	Beg Tan			22893
293.41				
293 + 2176.0	Beg Spiral			22991
293 + 2410.0	Beg Curve Body	2° 00' rt	5 1/4"	23080
293 + 2994.6	Beg Spiral			23303
293 + 3228.6	Beg Tan			23392
293.84				
293 + 4425.8	Beg Spiral			23774
293 + 4620.8	Beg Curve Body	1° 00' lt	2"	23844
294 + 0388.1	Beg Spiral			24228
294 + 0583.1	Beg Tan			24298
294.67				
294 + 3548.2	Beg Spiral			25273
294 + 3982.7	Beg Curve Body	3° 00' rt	6"	25451
294 + 3982.7	Beg Spiral			25451
294 + 4417.2	Beg Tan			25629
299.41				
299 + 2161.6	Beg Spiral			33753
299 + 2551.6	Beg Curve Body	3° 00' rt	6"	33906
299 + 3687.7	Beg Spiral			34345
299 + 4077.7	Beg Tan			34496

Curve Location (Mile Post)	Description	Curve Body	X-Level	Frame #
299.94				
299 + 4966.0	Beg Spiral			34760
299 + 5161.0	Beg Curve Body	1° 00' lt	2"	34824
300 + 1354.5	Beg Spiral			35287
300 + 1549.5	Beg Tan			35351
300.63				
300 + 3304.3	Beg Spiral			35894
300 + 3741.3	Beg Curve Body	3° 00' lt	6"	36075
300 + 4182.8	Beg Spiral			36257
300 + 4619.8	Beg Tan			36438
301.02				
301 + 0102.5	Beg Spiral			36686
301 + 0317.5	Beg Curve Body	1° 00' rt	2"	36752
301 + 0804.2	Beg Spiral			36900
301 + 1019.2	Beg Tan			36966
301.66				
301 + 3467.8	Beg Spiral			37798
301 + 3572.8	Beg Curve Body	1° 00' rt	2"	37833
301 + 4729.5	Beg Spiral			38219
301 + 4834.5	Beg Tan			38254
302.39				
302 + 2081.4	Beg Spiral			38682
302 + 2468.6	Beg Curve Body	3° 00' lt	6"	38860
302 + 2468.6	Beg Spiral			38860
302 + 2855.8	Beg Tan			39038
306.66				
306 + 3492.0	Beg Spiral			46800
306 + 3687.0	Beg Curve Body	2° 00' rt	5 1/4"	46884
306 + 3932.5	Beg Spiral			46990
306 + 4127.5	Beg Tan			47074
306.93				
306 + 4918.0	Beg Spiral			47252
306 + 5230.0	Beg Curve Body	4° 05' lt	6"	47399
307 + 0027.5	Beg Spiral			47470
307 + 0321.5	Beg Tan			47608
307.09				
307 + 0454.3	Beg Spiral			47648
307 + 0654.3	Beg Curve Body	4° 00' rt	6"	47716
307 + 1154.3	Beg Spiral			47886
307 + 1354.3	Beg Tan			47954

Curve Location (Mile Post)	Description	Curve Body	X-Level	Frame #
307.79				
307 + 4172.0	Beg Spiral			48894
307 + 4367.0	Beg Curve Body	2° 00' lt	5 1/4"	48972
307 + 4667.7	Beg Spiral			49093
307 + 4862.7	Beg Tan			49171
308.63				
308 + 3305.8	Beg Spiral			50354
308 + 3595.8	Beg Curve Body	2° 00' rt	5 1/4"	50478
308 + 3719.0	Beg Spiral			50530
308 + 3945.0	Beg Tan			50626
309.48				
309 + 2509.8	Beg Spiral			51900
309 + 2714.8	Beg Curve Body	2° 58' lt	6"	51988
309 + 3497.5	Beg Spiral			52325
309 + 3848.5	Beg Tan			52476
309.88				
309 + 4620.3	Beg Spiral			52642
309 + 5010.3	Beg Curve Body	3° 59' rt	6"	52794
310 + 0695.0	Beg Spiral			53153
310 + 1085.0	Beg Tan			53305
310.30				
310 + 1586.0	Beg Spiral			53442
310 + 1740.0	Beg Curve Body	1° 00' lt	2"	53504
310 + 2132.0	Beg Spiral			53663
310 + 2286.0	Beg Tan			53725
310.76				
310 + 4031.0	Beg Spiral			54216
310 + 4421.0	Beg Curve Body	4° 00' rt	6"	54377
310 + 4933.5	Beg Spiral			54588
311 + 0072.5	Beg Tan			54749
311.22				
311 + 1181.3	Beg Spiral			54992
311 + 1571.3	Beg Curve Body	4° 30' lt	5 3/4"	55166
311 + 2487.1	Beg Spiral			55575
311 + 2877.1	Beg Tan			55749
311.68				
311 + 3616.3	Beg Spiral			55914
311 + 3850.3	Beg Curve Body	3° 00' rt	6"	56007
311 + 4214.0	Beg Spiral			56152
311 + 4448.0	Beg Tan			56245

Curve Location (Mile Post)	Description	Curve Body	X-Level	Frame #
312.06				
312 + 0296.6	Beg Spiral			56608
312 + 0621.6	Beg Curve Body	3° 00' lt	6"	56741
312 + 0631.0	Beg Spiral			56745
312 + 0956.0	Beg Tan			56878
313.25				
313 + 1319.9	Beg Spiral			58722
313 + 1469.9	Beg Curve Body	1° 00' rt	2"	58777
313 + 2474.9	Beg Spiral			59148
313 + 2624.9	Beg Tan			59203
314.82				
314 + 4313.0	Beg Spiral			61590
315 + 4558.0	Beg Curve Body	2° 00' lt	5 1/4"	61686
315 + 4803.0	Beg Spiral			61782
315 + 5048.0	Beg Tan			61878
316.01				
316 + 0034.3	Beg Spiral			63760
316 + 0290.3	Beg Curve Body	2° 00' lt	5 1/4"	63866
316 + 0678.3	Beg Spiral			64026
316 + 0934.3	Beg Tan			64132
316.76				
316 + 4008.8	Beg Spiral			65146
316 + 4476.8	Beg Curve Body	3° 58' rt	6"	65326
317 + 0101.0	Beg Spiral			65661
317 + 0569.0	Beg Tan			65841
317.22				
317 + 1167.0	Beg Spiral			65930
317 + 1479.0	Beg Curve Body	2° 58' lt	6"	66047
317 + 2377.6	Beg Spiral			66385
317 + 2689.6	Beg Tan			66502
317.77				
317 + 4056.0	Beg Spiral			66960
317 + 4173.0	Beg Curve Body	0° 20' lt	1"	66994
318 + 0016.3	Beg Spiral			67315
318 + 0133.3	Beg Tan			67349
322.35				
322 + 1864.3	Beg Spiral			75208
322 + 2079.3	Beg Curve Body	0° 30' rt	1"	75284
322 + 2506.0	Beg Spiral			75435
322 + 2721.0	Beg Tan			75511

Curve Location (Mile Post)	Description	Curve Body	X-Level	Frame #
324.33				
324 + 1761.3	Beg Spiral			78816
324 + 2016.3	Beg Curve Body	5° 27' lt	5 1/4"	78913
324 + 3205.3	Beg Spiral			79366
324 + 3460.3	Beg Tan			79463
324.78				
324 + 4103.0	Beg Spiral			79624
324 + 4415.0	Beg Curve Body	3° 00' rt	6"	79741
325 + 0091.5	Beg Spiral			80053
325 + 0325.5	Beg Tan			80141
325.55				
325 + 2925.2	Beg Spiral			80892
325 + 3058.2	Beg Curve Body	3° 00' lt	6"	80984
325 + 3192.2	Beg Spiral			81076
325 + 3325.2	Beg Tan			81168
326.85				
326 + 4470.0	Beg Spiral			83272
326 + 4548.0	Beg Curve Body	0° 30' rt	1"	83308
327 + 0167.0	Beg Spiral			83744
327 + 0245.0	Beg Tan			83780
330.01				
330 + 0079.0	Beg Spiral			89172
330 + 0332.0	Beg Curve Body	1° 30' lt	4"	89265
330 + 0657.0	Beg Spiral			89385
334 + 0910.0	Beg Tan			89478
334.48				
334 + 2514.0	Beg Spiral			97378
334 + 2904.0	Beg Curve Body	2° 55' lt	6"	97512
334 + 4282.0	Beg Spiral			97986
334 + 4672.0	Beg Tan			98121
335.40				
335 + 2126.0	Beg Spiral			99078
335 + 2430.0	Beg Curve Body	3° 04' rt	6"	99197
335 + 3652.0	Beg Spiral			99676
335 + 3956.0	Beg Tan			99795
335.91				
335 + 48123.0	Beg Spiral			100072
335 + 5028.0	Beg Curve Body	2° 00' lt	5 1/4"	100182
336 + 0049.0	Beg Spiral			100405
336 + 0254.0	Beg Tan			100515

Curve Location (Mile Post)	Description	Curve Body	X-Level	Frame #
337.02				
337 + 0105.9	Beg Spiral			102484
337 + 0348.9	Beg Curve Body	4° 03' lt	6"	102587
337 + 1255.6	Beg Spiral			102971
337 + 1498.6	Beg Tan			103074
337.33				
337 + 1739.1	Beg Spiral			103176
337 + 2019.1	Beg Curve Body	3° 30' rt	6"	103410
337 + 2487.0	Beg Spiral			103801
337 + 2767.0	Beg Tan			104035
337.54				
337 + 2829.7	Beg Spiral			104062
337 + 3077.7	Beg Curve Body	6° 02' lt	5"	104167
337 + 3615.6	Beg Spiral			104395
337 + 3863.6	Beg Tan			104500
338.0				
338 + 0142.0	Beg Spiral			104908
338 + 0387.0	Beg Curve Body	4° 00' rt	6"	105020
338 + 0658.0	Beg Spiral			105144
338 + 0903.0	Beg Tan			105256
338.28				
338 + 1496.0	Beg Spiral			105522
338 + 1741.0	Beg Curve Body	3° 00' lt	6"	105634
338 + 1834.0	Beg Spiral			105676
338 + 2079.0	Beg Tan			105788
338.73				
338 + 3880.0	Beg Spiral			106582
338 + 4058.0	Beg Curve Body	4° 33' rt	5 3/4"	106701
339 + 0183.5	Beg Spiral			107331
339 + 0361.5	Beg Tan			107450
339.39				
339 + 2082.0	Beg Spiral			108140
339 + 2287.0	Beg Curve Body	2° 00' lt	5 1/4"	108244
339 + 2877.0	Beg Spiral			108544
339 + 3082.0	Beg Tan			108648
339.77				
339 + 4085.0	Beg Spiral			108960
339 + 4327.0	Beg Curve Body	4° 04' lt	6"	109079
339 + 4569.0	Beg Spiral			109198
339 + 4811.0	Beg Tan			109317

Curve Location (Mile Post)	Description	Curve Body	X-Level	Frame #
340.94				
340 + 4975.0	Beg Spiral			111200
340 + 5145.0	Beg Curve Body	1° 00' lt	2"	111255
340 + 5317.0	Beg Spiral			111311
341 + 0057.0	Beg Tan			111366
341.08				
341 + 4199.0	Beg Spiral			112788
341 + 4512.0	Beg Curve Body	4° 00' rt	6"	112914
341 + 4825.0	Beg Spiral			113040
341 + 5138.0	Beg Tan			113166
342.43				
342 + 1818.0	Beg Spiral			113736
342 + 2168.0	Beg Curve Body	4° 00' rt	6"	113917
342 + 2168.0	Beg Spiral			113917
342 + 2518.0	Beg Tan			114098
342.69				
343 + 3633.0	Beg Spiral			114378
342 + 4062.0	Beg Curve Body	3° 00' lt	6"	114532
342 + 4433.2	Beg Spiral			114665
342 + 4862.2	Beg Tan			114819

APPENDIX D
CORE FILM MAP

FRAME	KEY OBJECT	
2		MP 281-
3		MP 281+
639	Signal post (green)	
750	Frog	
797	Trailing point switch	
1377	L spiral lt - beg	MP 281.72
1688	T spiral - end	
1847	Ballast deck bridge - beg	
1896		MP 282-
1897		MP 282+
1910	Ballast deck bridge - end	
2776	Yellow mile measurement marker 1	
3419	"X" sign post	
3562	Ballast deck bridge - beg	
3629	Raised ballast deck bridge - end	
3791		MP 283-
3792		MP 283+
4057	Passive road crossing - beg	
4061	Passive road crossing - end	
4045	L spiral rt - beg	MP 283.15
4554	T spiral - end	
4676	Yellow mile post measurement marker 2	
4698	Signal post #2835 (green)	
4973	Ballast deck bridge - beg	
5224	Ballast deck bridge - end	
5540	Ballast deck bridge - beg	
5597	Ballast deck bridge - end	
5821		MP 284-
5822		MP 284+
5839	Private road crossing - beg	
5843	Private road crossing - end	
6235	L spiral lt - beg	MP 284.22
6568	T spiral - end	
6725	Speed board 40	

FRAME	KEY OBJECT	
7439	Ballast deck bridge - beg	
7466	Ballast deck bridge - end	
7514		MP 285-
7515		MP 285 +
8210	"X" sign post	
8527	Signal post #2855 (green)	
8651	Private road crossing - beg	
8655	Private road crossing - end	
9367		MP 286-
9368		MP 286+
10175	L spiral lt - beg	MP 286.44
10698	"S" signpost	
10900	T spiral - end	
10956	L spiral rt - beg	MP 286.85
11004	"X" signpost	
11290		MP 287-
11291		MP 287+
11439	Passive grade crossing - beg	
11445	Passive grade crossing - end	
11510	T spiral - end	
11839	L spiral lt - beg	MP 287.35
12071	T spiral - end (60 mph sign)	
12596	"X" signpost	
12624	Signal (green over read)	
12642	Leading point switch	
12689	Frog	
13067		MP 288-
13068		MP 288+
13155	Passive road crossing - beg	
13160	Passive road crossing - end	
13172	Approaching stopped train on adj. track - beg	
14823	End of train on adj. track	
14940	L spiral rt - beg	MP 289

FRAME	KEY OBJECT	
14921		MP 289-
14922		MP 289+
15309	"X" signpost	
15642	T spiral - end	
15778	Leading point switch	
15807	Frog	
15835	Active grade crossing - beg	
15847	Active grade crossing - end	
15850	Signal post (green)	
15950	Frog	
15949	Track equipment on adj. track - beg left	
15976	Track equipment on adj. track - end	
15999	Trailing point switch	
16120	Switchpoint (switch out of service - frog removed	
16146	L spiral lt - beg	MP 289.68
16191	Flat car on adj. track (left) - beg	
16218	Flat car on adj. track - end	
16277	Cars on left adj. track - beg	
16415	Cars on left adj. track - end	
16436	Active grade crossing - beg	
16449	Active grade crossing - end	
16490	Cars standing on left adj. track - beg	
16507	Flat car - beg	
16546	Flat car - end - beg boxcar	
16738	T spiral - end	
16748		MP 290-
16749		MP 290+
16804	Ballast deck bridge - beg	
16806	End of standing cars on left	
16825	Ballast deck bridge - end	
16872	Beginning of standing boxcar on left adj. track	
16889	End of standing boxcar on left adj. track	
16983	Frog	

FRAME	KEY OBJECT	
17011	Trailing point switch	
17120	L spiral lt - beg	MP 290.22
17250	Overpass (inside) 2 lane - beg	
17262	Overpass (inside) 2 land - end	
17316	T spiral - end	
17889	L spiral rt - beg	MP 290.67
18156	"X" signpost	
18194	T spiral - end	
18566		MP 291-
18567		MP 291+
18666	Passive grade crossing - beg	
18670	Passive grade crossing - end	
19037	Ballast deck bridge - beg	
19062	Ballast deck bridge - end	
19980	L spiral lt - beg	MP 291.79
20412		MP 292-
20413		MP 292+
20450	T spiral - end	
20685	Yellow striped pole on left side	
20722	Signal post (green)	
21527	Speed board 50	
21684	Ballast deck bridge - beg	
21707	Ballast deck bridge - end	
22056	Ballast deck bridge - beg	
22063	Ballast deck bridge - end	
22197	Ballast deck bridge - beg	
22204	Ballast deck bridge - end	
22276		MP 293-
22277		MP 293+
22346	Ballast deck bridge - beg	
22357	Ballast deck bridge - end	
22410	L spiral rt - beg	MP 293.11
22596	Ballast deck bridge - beg	
22603	Ballast deck bridge - end	

FRAME	KEY OBJECT	
22894	T spiral - end	
22991	L spiral rt - beg	MP 293.41
23392	T spiral - end	
23501	"X" sign post	
23758	Ballast deck bridge - beg	
23762	Ballast deck bridge - end	
23774	L spiral lt - beg	MP 293.84
24019	Passive grade crossing - beg	
24022	Passive grade crossing - end	
24111		MP 294-
24112		MP 294+
24302	T spiral - end	
25272	Signal post (green)	
25273	L spiral rt - beg	MP 294.67
25628	T spiral - end	
25687	Speed board 60	
25861		MP 295-
25862		MP 295+
25882	Yellow striped pole on left; signal pole on right	
25948	Yellow sign on right	
25958	Ballast deck bridge - beg	
26052	Ballast deck bridge - end	
26052	Wood trestle - beg	
26140	Wood trestle - end	
26140	Ballast deck bridge - beg	
26556	Ballast deck bridge - end	
26556	Wood trestle - beg	
26714	Wood trestle - end	
27414	"S" signpost	
27653		MP 296-
27654		MP 296+
27737	Trestle - beg	
27892	Trestle - end	

FRAME	KEY OBJECT	
28558	Square yellow sign on right	
29120	Passive grade crossing - beg	
29126	Passive grade crossing - end	
29191	Signal post (green over red)	
29205	Leading point switch	
29251	Frog	
29382	Cut of cars standing on left adjacent track - beg	
29422	Beg - flat car on left in consist	
29459	End - flat car on left in consist	
29458		MP 297-
29459		MP 297+
29618	Beg - flat car on left in consist	
29651	End - flat car on left in consist	
29937	Beg - flat car on left in consist	
29970	End - flat car on left in consist	
30492	"X" signpost	
30864	Cut of cars standing on left adjacent track - end	
30917	Passive grade crossing - beg	
30924	Passive grade crossing - end	
30957	Cut of cars standing on left adj. track - beg	
31270		MP 298-
31271		MP 298+
31339	Flat car in consist - beg	
31373	Flat car - end	
31511	End of cut of cars on left adj. track	
31629	Signal post (green)	
31683	Frog	
31726	Trailing point switch	
31781	Wood trestle - beg	
31803	Wood trestle - end	
32090	"X" signpost	
32548	Passive grade crossing - beg	

FRAME	KEY OBJECT	
32552	Passive grade crossing - end	
33039		MP 299-
33040		MP 299+
33061	Green square sign on right side	
33247	"X" signpost	
33595	"X" signpost	
33634	Passive grade crossing - beg	
33637	Passive grade crossing - end	
33753	L spiral rt - beg	MP 299.41
34060	Active grade crossing - beg	
34069	Active grade crossing - end	
34136	"X" signpost	
34493	T spiral - end	
34561	Active grade crossing - beg	
34565	Active grade crossing - end	
34760	L spiral lt - beg	MP 299.94
34777	"X" signpost	
34835		MP 300-
34836		MP 300+
34982	Gravel pile on left of track; sand on right - beg	
35016	Gravel pile on left of track; sand on right - end	
35194	Passive grade crossing - beg	
35198	Passive grade crossing - end	
35351	T spiral end - beg tan	
35435	Overpass - beg	
35445	Overpass - end	
35595	Signal post (green)	
35894	L spiral lt - beg	MP 300.63
36438	T spiral - end	
36647		MP 301-
36648		MP 301+
36686	L spiral rt - beg	MP 301.02
36966	T spiral - end	

FRAME	KEY OBJECT	
37652	Wood trestle - beg	
37058	Wood trestle - end	
37798	L spiral rt - beg	MP 301.66
38254	T spiral - end	
38324		MP 302-
38325		MP 302+
38682	L spiral lt - beg	MP 302.39
39038	T spiral - end	
39535	Signal #3027 (green)	
40000	Ballast deck bridge - beg	
40032	Ballast deck bridge - end	
40147	Ballast deck bridge - beg	
40141		MP 303-
40142		MP 303+
40356	Ballast deck bridge - end	
41076	Wood trestle - beg	
41133	Wood trestle - end	
42020		MP 304-
42021		MP 304+
42729	"X" signpost	
43232	Passive grade crossing - beg	
43237	Passive grade crossing - end	
43670	Speed board 40	
43688	"X" signpost	
43783	Passive grade crossing - beg	
43786	Passive grade crossing - end	
43835		MP 305-
43836		MP 305+
44150	Passive grade crossing - beg	
44154	Passive grade crossing - end	
44549	Signal #3053 (green)	
45022	Wood trestle - beg	
45048	Wood trestle - end	
45538	"X" signpost	

FRAME	KEY OBJECT	
45600		MP 306-
45601		MP 306+
45998	"S" signpost	
46063	Passive grade crossing - beg	
46065	Passive grade crossing - end	
46800	L spiral rt - beg	MP 306.66
47076	T spiral - end	
47101	"X" signpost	
47252	L spiral lt - beg	MP 306.93
47334	Wood trestle - beg	
47376	Wood trestle - end	
47445		MP 307-
47446		MP 307+
47607	Passive grade crossing - beg	
47608	T spiral - end	
47622	Passive grade crossing - end	
47648	L spiral rt - beg	
47787	Signal post (green over red)	
47859	Crossing diamond	
47918	Leading point switch	
47954	T spiral - end	
47964	Frog	
47970	Speed board 45	
48066	Frog	
48093	Trailing point switch	
48104	Active grade crossing - beg	
48123	Active grade crossing - end	
48532	Frog	
48560	Trailing point switch	
48568	Frog	
48595	Trailing point switch	
48648	Leading point switch	
48675	Frog	
48894	L spiral lt - beg	MP 307.79

FRAME	KEY OBJECT	
49050	Active grade crossing - beg	
49057	Active grade crossing - end	
49165	Cut of cars on adj. trk - right side - beg	
49172	T spiral - end	
49236	End of cut of cars - right side	
49245		MP 308-
49246		MP 308+
49608	Frog	
49635	Trailing point switch	
49829	Passive grade crossing - beg	
49834	Passive grade crossing - end	
50354	L spiral rt - beg	MP 308.63
50595	Red dwarf signal on left; signal post on right (green)	
50628	T spiral - end	
50661	Frog	
50705	Trailing point switch	
50796	Wood trestle - beg	
50814	Wood trestle - end	
51048		MP 309-
51049		MP 309+
51366	Wood trestle - beg	
51397	Wood trestle - end	
51900	L spiral lt - beg	MP 309.48
52476	T spiral - end	
52642	L spiral rt - beg	MP 309.88
52890		MP310-
52891		MP310+
53304	T spiral - end	
53442	L spiral lt - beg	MP 310.30
53726	Signal 3105 (green/yellow)	
53726	T spiral - end	
54216	L spiral rt - beg	MP 310.76
54665		MP 311-

FRAME	KEY OBJECT	
54666		MP 311+
54748	T spiral - end	
54992	L spiral lt - beg	MP 311.22
55436	Overpass - beg	
55444	Overpass - end	
55750	T spiral - end	
55771	Speed board 55	
55907	Passive road crossing - beg	
55914	Passive road crossing - end	
55915	L spiral rt - beg	MP 311.68
56244	T spiral - end	
56386	"X" signpost	
56518		MP 312-
56519		MP 312+
56608	L spiral lt - beg	MP 312.06
56877	Speed board 60	
56878	T spiral - end	
57494	Signal post (green over red)	
57508	Leading point switch	
57555	Frog	
57823	"X" signpost	
58201	Active grade crossing - beg	
58214	Active grade crossing - end	
58237		MP 313-
58238		MP 313+
58458	Passive grade crossing - beg	
58460	Passive grade crossing - end	
58724	L spiral rt - beg	MP 313.25
59204	T spiral - end	
60053		MP 314-
60054		MP 314+
60541	Signal post (green)	
60613	Frog	
60649	Trailing point switch	

FRAME	KEY OBJECT	
60707	Ballast deck bridge - beg	
60760	Ballast deck bridge - end	
61451	Speed board 50	
61590	L spiral lt - beg	MP 314.82
61878	T spiral - end	
61929		MP 315-
61930		MP 315+
62334	Signal box on right	
62432	"X" signpost	
62943	Passive grade crossing - beg	
62947	Passive grade crossing - end	
63749		MP 316-
63750		MP 316+
63760	L spiral lt - beg	MP 316.01
64132	T spiral - end	
64993	Signal 3167 (green)	
65146	L spiral rt - beg	MP 316.76
65569		MP 317-
65570		MP 317+
65840	T spiral - end	
65930	L spiral lt - beg	MP 317.22
66422	End of PART I of FILM A	
66423	Begining of PART II of FILM A	
66502	T spiral - end	
66600	Speed board 60	
66706	Dragging Equipment Detector	
66960	L spiral lt - beg	MP 317.77
67049	Ballast deck bridge - beg	
67060	Ballast deck bridge - end	
67244	Passive road crossing - beg	
67249	Passive road crossing - end	
67348	T spiral - end	
67364		MP 318-
67365		MP 318+

FRAME	KEY OBJECT	
69210		MP 319-
69211		MP 319+
69224	Signal 3191 (green)	
70353	"X" sign	
70819	Passive road crossing - beg	
70824	Passive road crossing - end	
71148		MP 320-
71149		MP 320+
71837	"S" sign	
71899	Leading pt switch	
71926	Frog	
72050	"X" sign	
72342	Leading point switch	
72385	Frog	
72509	Passive road crossing - beg	
72514	Passive road crossing - end	
72587	Leading pt switch	
72612	Frog	
72760	Passive road crossing - beg	
72764	Passive road crossing - end	
72820		MP 321-
72821		MP 321+
73123	Active road crossing - beg	
73129	Active road crossing - end	
73246	Active road crossing - beg	
73255	Active road crossing - end	
73584	Passive road crossing - beg	
73590	Passive road crossing - end	
73616	Leading pt. switch	
73610	Signal (control) (green/red)	
73658	Frog	
74569		MP 322-
74570		MP 322+
75208	L spiral rt - beg	MP 322.35

FRAME	KEY OBJECT	
75456	Wood trestle - beg	
75462	Wood trestle - end	
75512	T spiral - end	
76406		MP 323-
76407		MP 323+
76612	Signal green (control) (green/red)	
76670	Frog	
76715	Trail pt switch	
77008	Leading pt switch	
77034	Frog	
77514	"X" sign	
77840	Frog	
77865	Trailing pt switch	
77940	Automatic grade crossing - beg	
77951	Automatic grade crossing - end	
78237		MP 324-
78240		MP 324+
78530	Passive road crossing - beg	
78536	Passive road crossing - end	
78816	L spiral lt - beg	
79464	T spiral - end	
79534	Leading point switch	
79560	Frog	
79624	L spiral rt - beg	MP 324.78
79997		MP 325-
80000		MP 325+
80140	T spiral - end	
80184	Signal 3251 blinking yellow	MP 325.1
80377	Cut of cars on right (2 box cars) - beg	
80416	End of cut of cars	
80552	Frog	
80569	Trailing point switch	
80892	L spiral lt - beg	MP 325.55
81168	T spiral - end	

FRAME	KEY OBJECT	
81685		MP 326-
81686		MP 326+
83272	L spiral rt - beg	MP 326.85
83540	"X" sign	
83684		MP 327-
83685		MP 327+
83780	T spiral - end	
83840	Film splice	
83850	End of film splice	
83862	Signal control (green/red)	
83882	Leading pt switch	
83934	Frog	
84084	Passive grade crossing - beg	
84091	Passive grade crossing - end	
84654	Automatic grade crossing - beg	
84660	Automatic grade crossing - end	
85626		MP 328-
85627		MP 328+
86295	Signal (green/red)	
86384	Frog	
86426	Trailing switch pt	
87519	Ballast deck bridge - beg	
87542	Ballast deck bridge - end	
88102	Overhead bridge - beg	
88106	Overhead bridge - end	
88142	Overhead bridge - beg	
88151	Overhead bridge - end	
89017	Dragging Equipment Detector	
89155		MP 330-
89156		MP 330+
89172	L spiral lt - beg	MP 330.01
89478	T spiral - end	
89957	Ballast decked bridge - beg	
89977	Ballast decked bridge - end	

FRAME	KEY OBJECT	
90102	Ballast decked bridge - beg	
90120	Ballast decked bridge - end	
90535	Wood trestle - beg	
90593	Wood trestle - end	
91010		MP 331-
91011		MP 331+
91329	Signal 3311 (green)	
91860	"X" sign	
92307	Automatic grade crossing - beg	
92321	Automatic grade crossing - end	
92899	Hot box detector	
93726	Speed board 55	
94613		MP 333-
94614		MP 333+
86279	"X" sign	
95388	Speed board 45	
95480	Passive road crossing - beg	
95488	Passive road crossing - end	
96516	Ballast deck bridge - beg	
96497		MP 334-
96498		MP 334+
96671	Ballast deck bridge - end	
96695	Signal 3341 (green/red)	
96754	Ballast deck bridge - beg	
96907	Ballast deck bridge - end	
96994	Dragging Equipment Detector	
97378	L spiral lt - beg	MP 334.48
97733	Speed board 35	
98122	T spiral - end	
98239	Ballast deck bridge - beg	
99078	L spiral rt - beg	MP 335.40
99702	Ballast deck bridge - end	
99736	"S" sign	
99796	T spiral - end	

FRAME	KEY OBJECT	
100072	L spiral lt - beg	MP 335.91
100364		MP 336-
100365		MP 336+
100443	Ballast deck bridge - beg	
100516	T spiral - end	
100572	Ballast deck bridge - end	
100573	Wood trestle - beg	
100587	Wood trestle - end	
100588	Ballast deck bridge - beg	
100611	Ballast deck bridge - end	
100666	Set of crossing signals heads used for Dragging Equipment Detector	
100779	Ballast deck bridge - beg	
101000	Ballast deck bridge - end	
101316	Ballast deck bridge - beg	
101499	Ballast deck bridge - end	
101500	Steel girdered trestle - beg	
101620	Steel girdered trestle - end	
101621	Ballast deck bridge - beg	
101788	Ballast deck bridge - end	
101854	Signal (control) (green/red)	
101872	Leading pt switch	
101925	Frog	
102194	Stopped train on left	
102409	Leading point switch	
102402	Speed board 25 mph	
102439	Frog	
102484	L spiral lt - beg	MP 337.02
102569	Leading point switch	
102603	Frog	
103026	Parked train on right	
103074	T spiral - end	
103140	Flange oiler	
103176	L spiral rt - beg	MP 337.33

FRAME	KEY OBJECT	
103240	Train on rt fades out	
103392	Bldg on right - beg	
103520	Bldg on right - end	
103595	Frog	
103627	Trailing point switch	
103722	Frog	
103753	Trailing point switch	
103795	Automatic grade crossing - beg	
103815	Automatic grade crossing - end	
104036	T spiral - end	
104062	L spiral lt - beg	MP 337.54
104500	T spiral - end	
104646	Passive road crossing - beg	
104660	Passive road crossing - end	
104685	Frog	
104715	Trailing point switch	
104739	Leading point switch	
104729	Signal 337.7 (G)	
104771	Frog	
104919	Leading point switch	
104909	L spiral rt - beg	MP 338
104926		MP 338-
104927		MP 338+
104948	End of train on left	
104952	Frog	
104979	Automatic grade crossing - beg	
104993	Automatic grade crossing - end	
105255	Automatic grade crossing - beg	
105270	Automatic grade crossing - end	
105256	T spiral - end	
105484	Cut of cars on right	
105523	L spiral lt - beg	MP 338.28

FRAME	KEY OBJECT	
105577	"X" sign	
105622	End of cut of cars on rt	
105788	T spiral - end	
105837	Frog	
105867	Trailing pt switch	
106107	Automatic grade crossing - beg	
106124	Automatic grade crossing - end	
106264	Signal (control) (red/green)	
106384	Frog	
106448	Trailing point switch	
106477	Wooden deck bridge - beg	
106511	Wooden deck bridge - end	
106582	L spiral rt - beg	MP 338.73
106766	Signal aspect (?)	
106882	Overhead highway bridge - beg	
106917	Crossing diamond	
106944	End of overhead bridge	
107066	"S" sign	
107156		MP 339-
107157		MP 339+
107456	T spiral - end	
107473	Speed board "35"	
108140	L spiral lt - beg	MP 339.39
108189	Overhead bridge - beg	
108202	Overhead bridge - end	
108324	Overhead bridge - beg	
108379	Overhead bridge - end	
108648	T spiral - end	
108812	Ballast deck bridge - beg	
108960	L sprial rt - beg	MP 339.77
109042	Ballast deck bridge - end	
109170	Speed board "45"	
109312	T spiral - end	
109312	Signal (control) (green/red)	

FRAME	KEY OBJECT	
109336	Leading point switch	
109384	Frog	
109450		MP 340-
109451		MP 340+
109608	Cut of cars on side track left side	
109948	Low flat cars on left	
110028	End low flat cars on left - begin freight cars	
110205	"X" sign	
110451	End of cut of cars on left	
111062	Signal (control) (green/red)	
111139	Frog	
111177	Trailing point switch	
111200	L spiral lt - beg	MP 340.94
111354		MP 341-
111355		MP 341+
111366	T spiral - end	
111524	Wood trestle - beg	
111552	Wood trestle - end	
111790	"X" sign	
111813	Ballast decked bridge - beg	
111815	Ballast decked bridge - end	
112247	Active grade crossing - beg	
112257	Active grade crossing - end	
112788	L spiral rt - beg	MP 341.80
112924	Ballast deck bridge - beg	
112842	Ballast deck bridge - end	
113150	Active grade crossing - beg	
113166	Active grade crossing - end	
113166	T spiral - end	
113197		MP 342-
113198		MP 342+
113736	L spiral rt - beg	342.43
114098	T spiral - end	

FRAME	KEY OBJECT	
114126	Speed board 40 mph	
114322	Active grade crossing - beg	
114332	Active grade crossing - end	
114332	Track oiler	
114378	L spiral - beg	MP 342.69
114820	T spiral - end	
114943	Signal (field)	MP 343.1
114986	Last frame	

APPENDIX E
VISUAL CUES

VIDEO

FRAME	KEY OBJECT	
2		MP 281-
639	Signal post (green)	MP 281.34
1896		MP 282-
3419	"X" sign post	MP 282.80
3791		MP 283-
4698	Signal post #2835 (green)	MP 283.5
5821		MP 284-
6725	Speed board 40	MP 284.49
7514		MP 285-
8210	"X" sign post	MP 285.38
8527	Signal post #2855 (green)	MP 285.5
9367		MP 286-
10698	"S" sign post	MP 286.71
11004	"X" signpost	MP 286.87
11290		MP 287-
12071	60 mph sign	MP 287.43
12596	"X" signpost	MP 287.77
12624	Signal (green over read)	MP 287.78
13067		MP 288-
14921		MP 289-
15309	"X" signpost	MP 289.20
15850	Signal post (green)	MP 289.49
16748		MP 290-
18156	"X" signpost	MP 290.82
18566		MP 291-
20412		MP 292-
20685	Yellow striped pole on left side	MP 292.15
20722	Signal post (green)	MP 292.17
21527	Speed board 50	MP 292.61
22276		MP 293-
23501	"X" sign post	MP 293.69
24111		MP 294-

FRAME	KEY OBJECT	
25272	Signal post (green)	MP 294.65
25687	Speed board 60	MP 294.90
25861		MP 295-
25882	Yellow striped pole on left; signal pole on right	MP 295.01
25948	Yellow sign on right	MP 295.05
27414	"S" sign post	MP 295.88
27653		MP 296-
28558	Square yellow sign on right	MP 296.49
29191	Signal post (green over red)	MP 296.83
29458		MP 297-
30492	"X" signpost	MP 297.53
31270		MP 298-
31629	Signal post (green)	MP 298.20
32090	"X" signpost	MP 298.46
33039		MP 299-
33061	Green square sign on right side	MP 299.01
33247	"X" signpost	MP 299.10
33595	"X" signpost	MP 299.31
34136	"X" signpost	MP 299.62
34777	"X" signpost	MP 299.95
34835		MP 300-
35595	Signal post (green)	MP 300.42
36647		MP 301-
38324		MP 302-
39535	Signal #3027 (green)	MP 302.7
40141		MP 303-
42020		MP 304-
42729	"X" signpost	MP 304.28
43670	Speed board 40	MP 304.89
43688	"X" signpost	MP 304.90
43835		MP 305-
44549	Signal #3053 (green)	MP 305.3
45538	"X" signpost	MP 305.86
45600		MP 306-
45998	"S" signpost	MP 306.22

FRAME	KEY OBJECT	
47101	"X" signpost	MP 306.83
47445		MP 307-
47787	Signal post (green over red)	MP 307.19
47970	Speed board 45	MP 307.29
49245		MP 308-
50595	Red dwarf signal on left; signal post on right (green)	MP 308.76
51048		MP 309-
52890		MP 310-
53726	Signal 3105 (green/yellow)	MP 310.5
54665		MP 311-
55771	Speed board 55	MP 311.65
56386	"X" signpost	MP 311.94
56518		MP 312-
56877	Speed board 60	MP 312.27
57494	Signal post (green over red)	MP 312.54
57823	"X" signpost	MP 312.72
58237		MP 313-
60053		MP 314-
60541	Signal post (green)	MP 314.26
61451	Speed board 50	MP 314.75
61929		MP 315-
62334	Signal box on right	MP 315.22
62432	"X" signpost	MP 315.27
63749		MP 316-
64993	Signal 3167 (green)	MP 316.7
65569		MP 317-
66600	Speed board 60	MP 317.59
67364		MP 318-
69210		MP 319-
69224	Signal 3191 (green)	MP 319.1
70353	"X" sign	MP 319.72
71148		MP 320-
71837	"S" sign	MP 320.38

FRAME	KEY OBJECT	
72050	"X" sign	MP 320.49
72820		MP 321-
73610	Signal (control) (green/red)	MP 321.45
74569		MP 322-
76406		MP 323-
76612	Signal green (control) (green/red)	MP 323.11
77514	"X" sign	MP 323.61
78237		MP 324-
79997		MP 325-
81685		MP 326-
83540	"X" sign	MP 326.94
83684		MP 327-
83862	Signal control (green/red)	MP 327.09
85626		MP 328-
86295	Signal (green/red)	MP 328.37
89155		MP 330-
91010		MP 331-
91329	Signal 3311 (green)	MP 331.1
91860	"X" sign	MP 331.39
93726	Speed board 55	MP 332.03
94613		MP 333-
94919	"X" sign	MP 333.16
95388	Speed board 45	MP 333.41
96497		MP 334-
96695	Signal 3341 (green/red)	MP 334.66
97733	Speed board 35	MP 334.66
99736	"S" sign	MP 335.73
100364		MP 336-
100666	Set of crossing signals heads used for Dragging Equipment Detector	MP 336.14
101854	Signal (control) (green/red)	MP 336.68
102402	Speed board 25 mph	MP 336.93
104729	Signal 337.7 (G)	MP 337.7
104926		MP 338-

FRAME	KEY OBJECT	
105577	"X" sign	MP 338.30
106264	Signal (control) (red/green)	
106766	Signal aspect (?)	MP 338.81
107066	"S" sign	MP 338.93
107156		MP 339-
107473	Speed board "35"	MP 339.13
109170	Speed board "45"	MP 339.86
109312	Signal (control) (green/red)	MP 339.91
109450		MP 340-
110205	"X" sign	MP 340.41
111062	Signal (control) (green/red)	MP 340.87
111354		MP 341-
111790	"X" sign	MP 341.24
113197		MP 342-
114126	Speed board 40 mph	MP 342.59
114943	Signal (field)	MP 343.1

APPENDIX F
AUDIO CUES

AUDIO

FRAME	KEY OBJECT
750	Frog
797	Trailing point switch
1847	Ballast deck bridge - beg
1910	Ballast deck bridge - end
3562	Ballast deck bridge - beg
3629	Raised ballast deck bridge - end
4973	Ballast deck bridge - beg
5224	Ballast deck bridge - end
5540	Ballast deck bridge - beg
5597	Ballast deck bridge - end
7439	Ballast deck bridge - beg
7466	Ballast deck bridge - end
12642	Leading point switch
13172	Approaching stopped train on adj. track - beg
14823	End of train on adj. track
15778	Leading point switch
15807	Frog
15835	Active grade crossing - beg
15847	Active grade crossing - end
15950	Frog
15949	Track equipment on adj. track - beg left
15976	Track equipment on adj. track - end
15999	Trailing point switch
16120	Switchpoint (switch out of service - frog removed
16191	Flat car on adj. track (left) - beg
16218	Flat car on adj. track - end
16277	Cars on left adj. track - beg
16415	Cars on left adj. track - end
16436	Active grade crossing - beg
16449	Active grade crossing - end
16490	Cars standing on left adj. track - beg

FRAME	KEY OBJECT
16507	Flat car - beg
16546	Flat car - end - beg boxcar
16804	Ballast deck bridge - beg
16806	End of standing cars on left
16825	Ballast deck bridge - end
16872	Beginning of standing boxcar on left adj. track
16889	End of standing boxcar on left adj. track
16983	Frog
17011	Trailing point switch
17250	Overpass (inside) 2 lane - beg
17262	Overpass (inside) 2 land - end
19037	Ballast deck bridge - beg
19062	Ballast deck bridge - end
21684	Ballast deck bridge - beg
21707	Ballast deck bridge - end
22056	Ballast deck bridge - beg
22063	Ballast deck bridge - end
22197	Ballast deck bridge - beg
22204	Ballast deck bridge - end
22346	Ballast deck bridge - beg
22357	Ballast deck bridge - end
22596	Ballast deck bridge - beg
22603	Ballast deck bridge - end
23758	Ballast deck bridge - beg
23762	Ballast deck bridge - end
25958	Ballast deck bridge - beg
26052	Ballast deck bridge - end
26052	Wood trestle - beg
26140	Wood trestle - end
26140	Ballast deck bridge - beg
26556	Ballast deck bridge - end
26556	Wood trestle - beg
26714	Wood trestle - end

FRAME	KEY OBJECT
27737	Trestle - beg
27892	Trestle - end
29205	Leading point switch
29251	Frog
29382	Cut of cars standing on left adjacent track - beg
29422	Beg - flat car on left in consist
29459	End - flat car on left in consist
29618	Beg - flat car on left in consist
29651	End - flat car on left in consist
29937	Beg - flat car on left in consist
29970	End - flat car on left in consist
30864	Cut of cars standing on left adjacent track - end
30957	Cut of cars standing on left adj. track - beg
31339	Flat car in consist - beg
31373	Flat car - end
31511	End of cut of cars on left adj. track
31683	Frog
31726	Trailing point switch
31781	Wood trestle - beg
31803	Wood trestle - end
34060	Active grade crossing - beg
34069	Active grade crossing - end
34561	Active grade crossing - beg
34565	Active grade crossing - end
34982	Gravel pile on left of track; sand on right - beg
35016	Gravel pile on left of track; sand on right - end
35435	Overpass - beg
35445	Overpass - end
37652	Wood trestle - beg
37058	Wood trestle - end

FRAME	KEY OBJECT
40000	Ballast deck bridge - beg
40032	Ballast deck bridge - end
40147	Ballast deck bridge - beg
40356	Ballast deck bridge - end
41076	Wood trestle - beg
41133	Wood trestle - end
45022	Wood trestle - beg
45048	Wood trestle - end
47334	Wood trestle - beg
47376	Wood trestle - end
47859	Crossing diamond
47918	Leading point switch
47964	Frog
48066	Frog
48093	Trailing point switch
48104	Active grade crossing - beg
48123	Active grade crossing - end
48532	Frog
48560	Trailing point switch
48568	Frog
48595	Trailing point switch
48648	Leading point switch
48675	Frog
49050	Active grade crossing - beg
49057	Active grade crossing - end
49165	Cut of cars on adj. trk - right side - beg
49236	End of cut of cars - right side
49608	Frog
49635	Trailing point switch
50661	Frog
50705	Trailing point switch
50796	Wood trestle - beg
50814	Wood trestle - end
51366	Wood trestle - beg

FRAME	KEY OBJECT
51397	Wood trestle - end
55436	Overpass - beg
55444	Overpass - end
57508	Leading point switch
57555	Frog
58201	Active grade crossing - beg
58214	Active grade crossing - end
60613	Frog
60649	Trailing point switch
60707	Ballast deck bridge - beg
60760	Ballast deck bridge - end
67049	Ballast deck bridge - beg
67060	Ballast deck bridge - end
71899	Leading pt switch
71926	Frog
72342	Leading point switch
72385	Frog
72587	Leading pt switch
72612	Frog
73123	Active road crossing - beg
73129	Active road crossing - end
73246	Active road crossing - beg
73255	Active road crossing - end
73616	Leading pt. switch
73658	Frog
75456	Wood trestle - beg
75462	Wood trestle - end
76670	Frog
76715	Trail pt switch
77008	Leading pt switch
77034	Frog
77840	Frog
77865	Trailing pt switch
77940	Automatic grade crossing - beg

FRAME	KEY OBJECT	
77951	Automatic grade crossing - end	
79534	Leading point switch	
79560	Frog	
80377	Cut of cars on right (2 box cars) - beg	
80416	End of cut of cars	
80552	Frog	
80569	Trailing point switch	
83882	Leading pt switch	
83934	Frog	
84654	Automatic grade crossing - beg	
84660	Automatic grade crossing - end	
86384	Frog	
86426	Trailing switch pt	
87519	Ballast deck bridge - beg	
87542	Ballast deck bridge - end	
88102	Overhead bridge - beg	
88106	Overhead bridge - end	
88142	Overhead bridge - beg	
88151	Overhead bridge - end	
89957	Ballast decked bridge - beg	
89977	Ballast decked bridge - end	
90102	Ballast decked bridge - beg	
90120	Ballast decked bridge - end	
90535	Wood trestle - beg	
90593	Wood trestle - end	
92307	Automatic grade crossing - beg	
92321	Automatic grade crossing - end	
96516	Ballast deck bridge - beg	
96671	Ballast deck bridge - end	
96754	Ballast deck bridge - beg	
96907	Ballast deck bridge - end	
98239	Ballast deck bridge - beg	
99078	L spiral rt	MP 335.40
99702	Ballast deck bridge - end	

FRAME	KEY OBJECT
100443	Ballast deck bridge - beg
100572	Ballast deck bridge - end
100573	Wood trestle - beg
100587	Wood trestle - end
100588	Ballast deck bridge - beg
100611	Ballast deck bridge - end
100666	Set of crossing signals heads used for Dragging Equipment Detector
100779	Ballast deck bridge - beg
101000	Ballast deck bridge - end
171316	Ballast deck bridge - beg
101499	Ballast deck bridge - end
101500	Steel girdered trestle - beg
101620	Steel girdered trestle - end
101621	Ballast deck bridge - beg
101788	Ballast deck bridge - end
101872	Leading pt switch
101925	Frog
102194	Stopped train on left
102409	Leading point switch
102439	Frog
102569	Leading point switch
102603	Frog
103026	Parked train on right
103240	Train on rt fades out
103392	Bldg on right - beg
103520	Bldg on right - end
103595	Frog
103627	Trailing point switch
103722	Frog
103753	Trailing point switch
103795	Automatic grade crossing - beg
103815	Automatic grade crossing - end
104685	Frog

FRAME	KEY OBJECT
104715	Trailing point switch
104739	Leading point switch
104771	Frog
104919	Leading point switch
104948	End of train on left
104952	Frog
104979	Automatic grade crossing - beg
104993	Automatic grade crossing - end
105255	Automatic grade crossing - beg
105270	Automatic grade crossing - end
105484	Cut of cars on right
105622	End of cut of cars on rt
105837	Frog
105867	Trailing pt switch
106107	Automatic grade crossing - beg
106124	Automatic grade crossing - end
106384	Frog
106448	Trailing point switch
106477	Wooden deck bridge - beg
106511	Wooden deck bridge - end
106882	Overhead highway bridge - beg
106917	Crossing diamond
106944	End of overhead bridge
108189	Overhead bridge - beg
108202	Overhead bridge - end
108324	Overhead bridge - beg
108379	Overhead bridge - end
108812	Ballast deck bridge - beg
109042	Ballast deck bridge - end
109336	Leading point switch
109384	Frog
109608	Cut of cars on side track left side
109948	Low flat cars on left

FRAME	KEY OBJECT
110028	End low flat cars on left - begin freight cars
110451	End of cut of cars on left
111139	Frog
111177	Trailing point switch
111524	Wood trestle - beg
111552	Wood trestle - end
111813	Ballast decked bridge - beg
111815	Ballast decked bridge - end
112247	Active grade crossing - beg
112257	Active grade crossing - end
112924	Ballast deck bridge - beg
112842	Ballast deck bridge - end
113150	Active grade crossing - beg
114322	Active grade crossing - beg
114332	Active grade crossing - end

APPENDIX G
MOTION CUES

MOTION

FRAME	KEY OBJECT	
750	Frog	
797	Trailing point switch	
1377	L spiral lt - beg	MP 281.72
1688	T spiral - end	
1847	Ballast deck bridge - beg	
1910	Ballast deck bridge - end	
3562	Ballast deck bridge - beg	
3629	Raised ballast deck bridge - end	
4045	L spiral rt - beg	MP 283.15
4554	T spiral - end	
4973	Ballast deck bridge - beg	
5224	Ballast deck bridge - end	
5540	Ballast deck bridge - beg	
5597	Ballast deck bridge - end	
6235	L spiral lt - beg	MP 284.22
6568	T spiral - end	
7439	Ballast deck bridge - beg	
7466	Ballast deck bridge - end	
10175	L spiral lt - beg	MP 286.44
10900	T spiral - end	
10956	L spiral rt - beg	MP 286.85
11510	T spiral - end	
11839	L spiral lt - beg	MP 287.35
12071	T spiral - end	
12642	Leading point switch	
12689	Frog	
14940	L spiral rt - beg	MP 289
15642	T spiral - end	
15778	Leading point switch	
15807	Frog	
15950	Frog	
15999	Trailing point switch	

FRAME	KEY OBJECT	
16120	Switchpoint (switch out of service - frog removed	
16146	L spiral lt - beg	MP 289.68
16738	T spiral - end	
16983	Frog	
17011	Trailing point switch	
17120	L spiral lt - beg	MP 290.22
17316	T spiral - end	
17889	L spiral rt - beg	MP 290.67
18194	T spiral - end	
19037	Ballast deck bridge - beg	
19062	Ballast deck bridge - end	
19980	L spiral lt - beg	MP 291.79
20450	T spiral - end	
21684	Ballast deck bridge - beg	
21707	Ballast deck bridge - end	
22056	Ballast deck bridge - beg	
22063	Ballast deck bridge - end	
22197	Ballast deck bridge - beg	
22204	Ballast deck bridge - end	
22346	Ballast deck bridge - beg	
22357	Ballast deck bridge - end	
22410	L spiral rt - beg	MP 293.11
22596	Ballast deck bridge - beg	
22603	Ballast deck bridge - end	
22894	T spiral - end	
22991	L spiral rt - beg	MP 293.41
23392	T spiral - end	
23758	Ballast deck bridge - beg	
23762	Ballast deck bridge - end	
23774	L spiral lt - beg	MP 293.84
24302	T spiral - end	
25273	L spiral rt - beg	MP 294.67
25628	T spiral - end	

FRAME	KEY OBJECT	
25958	Ballast deck bridge - beg	
26052	Ballast deck bridge - end	
26052	Wood trestle - beg	
26140	Wood trestle - end	
26140	Ballast deck bridge - beg	
26556	Ballast deck bridge - end	
26556	Wood trestle - beg	
26714	Wood trestle - end	
27737	Trestle - beg	
27892	Trestle - end	
29205	Leading point switch	
29251	Frog	
31683	Frog	
31726	Trailing point switch	
31781	Wood trestle - beg	
31803	Wood trestle - end	
33753	L spiral rt - beg	MP 299.41
34493	T spiral - end	
34760	L spiral lt - beg	MP 299.94
35351	T spiral - end	
35894	L spiral lt - beg	MP 300.63
36438	T spiral - end	
36686	L spiral rt - beg	MP 301.02
36966	T spiral - end	
37652	Wood trestle - beg	
37058	Wood trestle - end	
37798	L spiral rt - beg	MP 301.66
38254	T spiral - end	
38682	L spiral lt - beg	MP 302.39
39038	T spiral - end	
40000	Ballast deck bridge - beg	
40032	Ballast deck bridge - end	
40147	Ballast deck bridge - beg	
40356	Ballast deck bridge - end	

FRAME	KEY OBJECT	
41076	Wood trestle - beg	
41133	Wood trestle - end	
45022	Wood trestle - beg	
45048	Wood trestle - end	
46800	L spiral rt - beg	MP 306.66
47076	T spiral - end	
47252	L spiral lt - beg	MP 306.93
47334	Wood trestle - beg	
47376	Wood trestle - end	
47608	T spiral - end	
47648	L spiral rt - beg	
47859	Crossing diamond	
47918	Leading point switch	
47954	T spiral end	
47964	Frog	
48066	Frog	
48093	Trailing point switch	
48532	Frog	
48560	Trailing point switch	
48568	Frog	
48595	Trailing point switch	
48648	Leading point switch	
48675	Frog	
48894	L spiral lt - beg	MP 307.79
49172	T spiral - end	
49608	Frog	
49635	Trailing point switch	
50354	L spiral rt - beg	MP 308.63
50628	T spiral - end	
50661	Frog	
50705	Trailing point switch	
50796	Wood trestle - beg	
50814	Wood trestle - end	
51366	Wood trestle - beg	

FRAME	KEY OBJECT	
51397	Wood trestle - end	
51900	L spiral lt - beg	MP 309.48
52476	T spiral - end	
52642	L spiral rt - beg	MP 309.88
53304	T spiral - end	
53442	L spiral lt - beg	MP 310.30
53726	T spiral - end	
54216	L spiral rt - beg	MP 310.76
54748	T spiral - end	
54992	L spiral lt - beg	MP 311.22
55750	T spiral - end	
55915	L spiral rt - beg	MP 311.68
56244	T spiral - end	
56608	L spiral lt - beg	
56878	T spiral - end	
57508	Leading point switch	
57555	Frog	
58724	L spiral rt - beg	MP 313.25
59204	T spiral - end	
60613	Frog	
60649	Trailing point switch	
60707	Ballast deck bridge - beg	
60760	Ballast deck bridge - end	
61451	Speed board 50	
61590	L spiral lt - beg	MP 314.82
61878	T spiral - end	
63760	L spiral lt - beg	MP 316.01
64132	T spiral - end	
65146	L spiral rt - beg	MP 316.76
65840	T spiral - end	
65930	L spiral lt - beg	MP 317.22
66502	T spiral - end	
66960	L spiral lt - beg	MP 317.77
67049	Ballast deck bridge - beg	

FRAME	KEY OBJECT	
67060	Ballast deck bridge - end	
67348	T spiral - end	
71899	Leading point switch	
71926	Frog	
72342	Leading point switch	
72385	Frog	
72587	Leading point switch	
72612	Frog	
73616	Leading point switch	
73658	Frog	
75208	L spiral rt - beg	MP 322.35
75456	Wood trestle - beg	
75462	Wood trestle - end	
75512	T spiral - end	
76670	Frog	
76715	Trail pt switch	
77008	Leading pt switch	
77034	Frog	
77840	Frog	
77865	Trailing pt switch	
78816	L spiral lt - beg	
79464	T spiral - end	
79534	Leading point switch	
79560	Frog	
79624	L spiral rt - beg	MP 324.78
80140	T spiral - end	
80552	Frog	
80569	Trailing point switch	
80892	L spiral lt - beg	MP 325.55
81168	T spiral - end	
83272	L spiral rt - beg	MP 326.85
83780	T spiral - end	
83882	Leading pt switch	
83934	Frog	

FRAME	KEY OBJECT	
86384	Frog	
86426	Trailing switch pt	
87519	Ballast deck bridge - beg	
87542	Ballast deck bridge - end	
89172	L spiral lt - beg	MP 330.1
89478	T spiral - end	
89957	Ballast decked bridge - beg	
89977	Ballast decked bridge - end	
90102	Ballast decked bridge - beg	
90120	Ballast decked bridge - end	
90535	Wood trestle - beg	
90593	Wood trestle - end	
96516	Ballast deck bridge - beg	
96671	Ballast deck bridge - end	
96754	Ballast deck bridge - beg	
96907	Ballast deck bridge - end	
97378	L spiral lt - beg	MP 334.48
98122	T spiral - end	
98239	Ballast deck bridge - beg	
99078	L spiral rt - beg	MP 335.40
99702	Ballast deck bridge - end	
99796	T spiral - end	
100072	L spiral lt - beg	MP 335.91
100443	Ballast deck bridge - beg	
100516	T spiral - end	
100572	Ballast deck bridge - end	
100573	Wood trestle - beg	
100587	Wood trestle - end	
100588	Ballast deck bridge - beg	
100611	Ballast deck bridge - end	
100779	Ballast deck bridge - beg	
101000	Ballast deck bridge - end	
101316	Ballast deck bridge - beg	
101499	Ballast deck bridge - end	

FRAME	KEY OBJECT	
101500	Steel girdered trestle - beg	
101620	Steel girdered trestle - end	
101621	Ballast deck bridge - beg	
101788	Ballast deck bridge - end	
101872	Leading pt switch	
101925	Frog	
102409	Leading point switch	
102439	Frog	
102484	L spiral lt - beg	MP 337.02
102569	Leading point switch	
102603	Frog	
103074	T spiral - end	
103176	L spiral rt - beg	MP 337.33
103600	T spiral - end	
103595	Frog	
103627	Trailing point switch	
103722	Frog	
103753	Trailing point switch	
104036	T spiral - end	
104062	L spiral lt - beg	MP 337.54
104500	T spiral - end	
104685	Frog	
104715	Trailing point switch	
104739	Leading point switch	
104771	Frog	
104919	Leading point switch	
104909	L spiral rt - beg	MP 338
104952	Frog	
105256	T spiral - end	
105523	L spiral lt - beg	MP 338.28
105788	T spiral - end	
105837	Frog	

FRAME	KEY OBJECT	
105867	Trailing pt switch	
106384	Frog	
106448	Trailing point switch	
106477	Wooden deck bridge - beg	
106511	Wooden deck bridge - end	
106582	L spiral rt - beg	MP 338.73
106917	Crossing diamond	
107456	T spiral - end	
108140	L spiral lt - beg	MP 339.39
108648	T spiral - end	
108812	Ballast deck bridge - beg	
108960	L sprial rt - beg	MP 339.77
109042	Ballast deck bridge - end	
109312	T spiral - end	
109336	Leading point switch	
109384	Frog	
111139	Frog	
111177	Trailing point switch	
111200	L spiral lt - beg	MP 340.94
111366	T spiral - end	
111524	Wood trestle - beg	
111552	Wood trestle - end	
111813	Ballast decked bridge - beg	
111815	Ballast decked bridge - end	
112788	L spiral rt - beg	MP 341.80
112924	Ballast deck bridge - beg	
112842	Ballast deck bridge - end	
113166	T spiral - end	
113736	L spiral rt - beg	342.43
114098	T spiral - end	
114378	L spiral - beg	MP 342.69
114820	T spiral - end	

APPENDIX H
FILM CALIBRATION DATA

STARTING RECORD = 0 ENDING RECORD = 401

FRAME(I-1)	V(I-1)	FRAME(I)	V(I)	DELTA V/V
0.	1.00	5.	52.81	51.811
16.	54.64	19.	56.57	0.035
33.	59.78	36.	62.14	0.039
55.	58.68	59.	56.57	0.036
62.	56.57	66.	58.68	0.037
76.	58.68	80.	60.95	0.039
83.	60.95	87.	58.68	0.037
90.	59.78	94.	62.14	0.039
97.	60.95	101.	58.68	0.037
105.	58.68	108.	60.95	0.039
112.	59.78	116.	57.63	0.036
119.	57.63	122.	59.78	0.037
179.	59.78	183.	57.63	0.036
186.	57.63	190.	59.78	0.037
200.	58.68	204.	60.95	0.039
208.	59.78	212.	57.63	0.036
226.	57.63	229.	59.78	0.037
247.	59.78	251.	57.63	0.036
253.	58.68	261.	60.95	0.039
261.	60.95	265.	58.68	0.037
275.	60.95	279.	58.68	0.037
325.	58.68	328.	60.95	0.039
347.	58.68	351.	56.57	0.036
354.	56.57	358.	58.68	0.037
368.	58.68	372.	60.95	0.039
414.	60.95	418.	58.68	0.037
428.	59.78	432.	57.63	0.036
485.	60.95	489.	58.68	0.037
506.	58.68	510.	60.95	0.039
574.	57.63	578.	59.78	0.037
581.	58.68	586.	56.57	0.036
596.	57.63	600.	55.59	0.035
604.	55.59	608.	57.63	0.037
619.	56.57	622.	58.68	0.037
629.	59.78	632.	62.14	0.039
648.	64.69	652.	62.14	0.039
663.	59.78	667.	57.63	0.036
756.	56.57	759.	58.68	0.037
770.	58.68	773.	60.95	0.039
783.	62.14	786.	64.69	0.041
804.	60.95	808.	58.68	0.037
819.	57.63	823.	55.59	0.035
841.	56.57	844.	59.78	0.057
858.	63.37	862.	60.95	0.038
873.	58.68	877.	56.57	0.036
894.	58.68	898.	60.95	0.039
916.	58.68	920.	56.57	0.036
924.	56.57	927.	58.68	0.037
945.	59.78	949.	57.63	0.036
999.	59.78	1004.	57.63	0.036
1022.	56.57	1025.	58.68	0.037
1029.	58.68	1033.	56.57	0.036
1051.	56.57	1055.	58.68	0.037
1058.	58.68	1063.	56.57	0.036
1126.	58.68	1132.	56.57	0.036
1150.	57.63	1153.	59.78	0.037
1179.	56.57	1182.	58.68	0.037
1186.	57.63	1190.	55.59	0.035
1201.	58.68	1205.	55.59	0.053
1209.	55.59	1212.	57.63	0.037

A FILM

5/20/82

Velocity is in ft/sec

1219.	58.68	1223.	56.57	0.036
1223.	56.57	1227.	58.68	0.037
1271.	57.63	1275.	55.59	0.035
1279.	56.57	1282.	58.68	0.037
1286.	57.63	1290.	55.59	0.035
1294.	55.59	1297.	58.68	0.056
1300.	58.68	1305.	55.59	0.053
1308.	55.59	1312.	57.63	0.037
1315.	58.68	1320.	55.59	0.053
1323.	55.59	1327.	57.63	0.037
1334.	57.63	1338.	55.59	0.035
1338.	55.59	1342.	57.63	0.037
1348.	58.68	1352.	56.57	0.038
1393.	56.57	1397.	58.68	0.037
1408.	57.63	1411.	59.78	0.037
1415.	58.68	1419.	56.57	0.036
1430.	58.68	1434.	56.57	0.036
1438.	55.59	1441.	57.63	0.037
1482.	56.57	1485.	58.68	0.037
1485.	58.68	1489.	56.57	0.036
1522.	57.63	1526.	59.78	0.037
1529.	59.78	1534.	57.63	0.036
1544.	58.68	1548.	55.59	0.053
1552.	54.64	1556.	56.57	0.035
1563.	56.57	1567.	54.64	0.034
1567.	54.64	1571.	56.57	0.035
1600.	57.63	1604.	55.59	0.035
1611.	57.63	1614.	59.78	0.037
1614.	59.78	1618.	57.63	0.036
1622.	57.63	1626.	59.78	0.037
1673.	58.68	1677.	56.57	0.036
1681.	56.57	1684.	58.68	0.037
1695.	56.57	1699.	58.68	0.037
1743.	58.68	1747.	56.57	0.036
1750.	56.57	1754.	58.68	0.037
1779.	57.63	1783.	59.78	0.037
1786.	59.78	1791.	57.63	0.036
1808.	57.63	1812.	59.78	0.037
1844.	60.95	1848.	58.68	0.037
1869.	60.95	1873.	57.63	0.055
1891.	57.63	1894.	60.95	0.058
1913.	57.63	1917.	55.59	0.035
1920.	55.59	1924.	57.63	0.037
1924.	57.63	1927.	59.78	0.037
1941.	60.95	1946.	57.63	0.055
1964.	56.57	1967.	59.78	0.057
1981.	60.95	1986.	57.63	0.055
2004.	55.59	2008.	57.63	0.037
2062.	57.63	2065.	59.78	0.037
2082.	60.95	2086.	58.68	0.037
2123.	58.68	2127.	56.57	0.036
2160.	57.63	2163.	59.78	0.037
2173.	62.14	2176.	64.69	0.041
2416.	56.57	2420.	58.68	0.037
2423.	59.78	2427.	57.63	0.036
2438.	59.78	2442.	57.63	0.036
2445.	56.57	2449.	58.68	0.037
2474.	58.68	2477.	60.95	0.039
2484.	62.14	2487.	64.69	0.041
2505.	60.95	2509.	58.68	0.037
2542.	57.63	2545.	59.78	0.037
2563.	59.78	2567.	56.57	0.054
2585.	57.63	2588.	60.95	0.058

2602.	62.14	2607.	57.63	0.072
2624.	57.63	2628.	60.95	0.058
2635.	59.78	2639.	57.63	0.036
2654.	56.57	2657.	58.68	0.037
2675.	58.68	2679.	56.57	0.036
2662.	57.63	2686.	59.78	0.037
2701.	58.68	2705.	56.57	0.036
2738.	56.57	2741.	58.68	0.037
2745.	58.68	2749.	56.57	0.036
2811.	57.63	2815.	59.78	0.037
2874.	57.63	2878.	55.59	0.035
2881.	56.57	2884.	59.78	0.057
2886.	59.78	2892.	57.63	0.036
2903.	57.63	2907.	55.59	0.035
2910.	56.57	2914.	58.68	0.037
2917.	58.68	2922.	56.57	0.036
2939.	57.63	2943.	59.78	0.037
2958.	57.63	2962.	55.59	0.035
2969.	56.57	2972.	58.68	0.037
2986.	60.95	2991.	57.63	0.055
3008.	57.63	3012.	60.95	0.058
3029.	62.14	3033.	59.78	0.038
3044.	57.63	3048.	55.59	0.035
3066.	55.59	3070.	58.68	0.056
3080.	60.95	3083.	63.37	0.040
3097.	60.95	3101.	58.68	0.037
3112.	57.63	3117.	54.64	0.052
3135.	55.59	3138.	59.78	0.075
3156.	59.78	3160.	56.57	0.054
3178.	56.57	3182.	59.78	0.057
3196.	62.14	3200.	59.78	0.038
3233.	56.57	3236.	58.68	0.037
3243.	59.78	3246.	62.14	0.039
3253.	62.14	3257.	59.78	0.038
3268.	57.63	3272.	55.59	0.035
3291.	55.59	3294.	58.68	0.056
3312.	60.95	3316.	58.68	0.037
3373.	57.63	3376.	59.78	0.037
3390.	62.14	3394.	59.78	0.038
3394.	59.78	3398.	57.63	0.036
3423.	60.95	3427.	58.68	0.037
3535.	57.63	3540.	55.59	0.035
3540.	55.59	3543.	57.63	0.037
3558.	56.57	3561.	58.68	0.037
3561.	58.68	3566.	56.57	0.036
3584.	56.57	3587.	58.68	0.037
3620.	59.78	3624.	57.63	0.036
3649.	59.78	3653.	57.63	0.036
3656.	57.63	3659.	59.78	0.037
3678.	58.68	3682.	56.57	0.036
3685.	55.59	3688.	57.63	0.037
3732.	59.78	3736.	57.63	0.036
3754.	56.57	3757.	59.78	0.057
3775.	59.78	3780.	56.57	0.054
3798.	55.59	3801.	58.68	0.056
3838.	56.57	3841.	58.68	0.037
3859.	58.68	3863.	56.57	0.036
3866.	57.63	3870.	59.78	0.037
3887.	60.95	3891.	58.68	0.037
3942.	58.68	3946.	56.57	0.036
3952.	57.63	3956.	59.78	0.037
3970.	60.95	3974.	58.68	0.037
3992.	57.63	3995.	59.78	0.037

4013.	60.95	4017.	58.68	0.037
4042.	59.78	4046.	57.63	0.036
4064.	57.63	4067.	60.95	0.058
4082.	59.78	4086.	57.63	0.036
4104.	57.63	4107.	59.78	0.037
4125.	59.78	4129.	56.57	0.054
4148.	55.59	4151.	58.68	0.056
4168.	60.95	4172.	58.68	0.037
4194.	59.78	4198.	57.63	0.036
4201.	57.63	4204.	59.78	0.037
4222.	59.78	4226.	56.57	0.054
4244.	56.57	4248.	58.68	0.037
4295.	59.78	4300.	57.63	0.036
4317.	57.63	4321.	59.78	0.037
4336.	57.63	4340.	55.59	0.035
4343.	56.57	4346.	58.68	0.037
4365.	58.68	4369.	56.57	0.036
4379.	58.68	4384.	56.57	0.036
4446.	55.59	4449.	57.63	0.037
4486.	55.59	4490.	57.63	0.037
4530.	57.63	4534.	59.78	0.037
4537.	58.68	4542.	56.57	0.036
4545.	57.63	4548.	59.78	0.037
4559.	57.63	4563.	59.78	0.037
4600.	56.57	4603.	58.68	0.037
4607.	57.63	4611.	55.59	0.035
4629.	57.63	4632.	59.78	0.037
4658.	56.57	4662.	58.68	0.037
4676.	59.78	4680.	57.63	0.036
4749.	58.68	4753.	56.57	0.036
4756.	55.59	4760.	57.63	0.037
4777.	60.95	4782.	57.63	0.055
4800.	56.57	4803.	59.78	0.057
4817.	62.14	4821.	59.78	0.038
4839.	56.57	4842.	58.68	0.037
4861.	58.68	4865.	56.57	0.036
4975.	58.68	4980.	56.57	0.036
4983.	56.57	4986.	58.68	0.037
4998.	56.57	5001.	59.78	0.057
5004.	60.95	5008.	58.68	0.037
5012.	58.68	5015.	60.95	0.039
5018.	62.14	5023.	57.63	0.072
5034.	57.63	5038.	55.59	0.035
5041.	54.64	5045.	57.63	0.055
5055.	58.68	5058.	60.95	0.039
5065.	62.14	5068.	64.69	0.041
5086.	62.14	5090.	59.78	0.038
5115.	58.68	5119.	56.57	0.036
5137.	57.63	5140.	60.95	0.058
5158.	60.95	5162.	57.63	0.055
5180.	57.63	5183.	60.95	0.058
5196.	59.78	5202.	57.63	0.036
5205.	56.57	5208.	58.68	0.037
5226.	59.78	5230.	57.63	0.036
5256.	58.68	5260.	56.57	0.036
5278.	56.57	5281.	58.68	0.037
5284.	59.78	5289.	57.63	0.036
5303.	57.63	5307.	55.59	0.035
5307.	55.59	5311.	57.63	0.037
5333.	57.63	5336.	59.78	0.037
5347.	58.68	5350.	60.95	0.039
5354.	59.78	5358.	57.63	0.036
5362.	57.63	5365.	59.78	0.037

5366.	59.78	5372.	57.63	0.036
5383.	58.68	5387.	56.57	0.036
5468.	57.63	5473.	55.59	0.035
5476.	54.64	5480.	57.63	0.055
5490.	57.63	5494.	59.78	0.037
5494.	59.78	5498.	57.63	0.036
5498.	57.63	5502.	55.59	0.035
5551.	55.59	5554.	58.68	0.056
5566.	57.63	5569.	59.78	0.037
5569.	59.78	5573.	57.63	0.036
5591.	56.57	5595.	58.68	0.037
5602.	59.78	5606.	57.63	0.036
5650.	56.57	5653.	58.68	0.037
5664.	58.68	5667.	60.95	0.039
5667.	60.95	5672.	58.68	0.037
5690.	56.57	5693.	59.78	0.057
5752.	60.95	5756.	58.68	0.037
5773.	58.68	5776.	60.95	0.039
5787.	60.95	5790.	63.37	0.040
5790.	63.37	5794.	60.95	0.038
5804.	62.14	5808.	59.78	0.038
5812.	58.68	5815.	60.95	0.039
5818.	62.14	5822.	59.78	0.038
5825.	59.78	5828.	62.14	0.039
5880.	59.78	5883.	62.14	0.039
5886.	62.14	5890.	59.78	0.038
5897.	60.95	5900.	63.37	0.040
5900.	63.37	5904.	60.95	0.038
5907.	60.95	5910.	63.37	0.040
5910.	63.37	5914.	60.95	0.038
5918.	62.14	5921.	59.78	0.038
5921.	59.78	5924.	63.37	0.060
5924.	63.37	5928.	60.95	0.038
5931.	60.95	5934.	63.37	0.040
5941.	63.37	5945.	60.95	0.038
5945.	60.95	5948.	63.37	0.040
6014.	60.95	6017.	63.37	0.040
6038.	62.14	6041.	64.69	0.041
6048.	63.37	6051.	60.95	0.038
6051.	60.95	6054.	63.37	0.040
6065.	59.78	6068.	62.14	0.039
6085.	64.69	6089.	60.95	0.058
6106.	60.95	6109.	63.37	0.040
6112.	63.37	6116.	60.95	0.038
6133.	59.78	6136.	63.37	0.060
6136.	63.37	6140.	60.95	0.038
6232.	63.37	6236.	60.95	0.038
6240.	60.95	6243.	63.37	0.040
6246.	62.14	6250.	59.78	0.038
6254.	59.78	6257.	62.14	0.039
6257.	62.14	6261.	59.78	0.038
6268.	59.78	6271.	62.14	0.039
6271.	62.14	6275.	59.78	0.038
6278.	58.68	6282.	60.95	0.039
6285.	62.14	6289.	59.78	0.038
6292.	58.68	6296.	60.95	0.039
6324.	60.95	6328.	58.68	0.037
6349.	58.68	6352.	60.95	0.039
6377.	58.68	6380.	60.95	0.039
6395.	59.78	6399.	57.63	0.036
6403.	56.57	6406.	58.68	0.037
6410.	53.68	6414.	56.57	0.036
6417.	57.63	6420.	59.78	0.037

6424.	59.78	6428.	57.63	0.036
6431.	58.68	6435.	60.95	0.039
6438.	59.78	6443.	56.57	0.054
6461.	56.57	6464.	58.68	0.037
6475.	57.63	6478.	59.78	0.037
6492.	62.14	6496.	59.78	0.038
6550.	57.63	6554.	55.59	0.035
6572.	56.57	6576.	59.78	0.057
6593.	60.95	6597.	58.68	0.037
6630.	56.57	6634.	58.68	0.037
6634.	58.68	6638.	56.57	0.036
6642.	56.57	6645.	58.68	0.037
6656.	56.57	6660.	58.68	0.037
6663.	58.68	6667.	56.57	0.036
6685.	58.68	6688.	60.95	0.039
6758.	59.78	6762.	57.63	0.036
6780.	58.68	6783.	60.95	0.039
6801.	60.95	6805.	58.68	0.037
6823.	57.63	6826.	59.78	0.037
6879.	59.78	6882.	62.14	0.039
6960.	57.63	6963.	59.78	0.037
6989.	57.63	6992.	59.78	0.037
6992.	59.78	6996.	57.63	0.036
6999.	58.68	7002.	60.95	0.039
7013.	60.95	7016.	63.37	0.040
7068.	59.78	7072.	62.14	0.039
7089.	62.14	7093.	59.78	0.038
7096.	59.78	7099.	62.14	0.039
7120.	60.95	7123.	63.37	0.040
7126.	62.14	7130.	59.78	0.038
7148.	59.78	7151.	62.14	0.039
7154.	62.14	7158.	59.78	0.038
7175.	59.78	7178.	62.14	0.039
7196.	62.14	7200.	59.78	0.038
7206.	59.78	7209.	62.14	0.039
7209.	62.14	7214.	59.78	0.038
7217.	59.78	7220.	62.14	0.039
7220.	62.14	7224.	59.78	0.038
7227.	60.95	7231.	58.68	0.037
7231.	58.68	7234.	63.37	0.079
7234.	63.37	7238.	60.95	0.038
7241.	60.95	7244.	63.37	0.040
7251.	63.37	7254.	60.95	0.038
7254.	60.95	7258.	63.37	0.040
7274.	63.37	7278.	60.95	0.038
7288.	62.14	7292.	59.78	0.038
7295.	60.95	7298.	63.37	0.040
7309.	62.14	7312.	64.69	0.041
7312.	64.69	7316.	62.14	0.039
7329.	62.14	7333.	59.78	0.038
7333.	59.78	7336.	62.14	0.039
7350.	62.14	7352.	66.02	0.062
7352.	66.02	7356.	62.14	0.059
7370.	62.14	7374.	59.78	0.038
7374.	59.78	7376.	63.37	0.060
7380.	63.37	7384.	60.95	0.038
7390.	62.14	7393.	64.69	0.041
7393.	64.69	7397.	62.14	0.039
7400.	60.95	7404.	63.37	0.040
7556.	60.95	7560.	58.68	0.037
7577.	59.78	7580.	62.14	0.039
7580.	62.14	7584.	59.78	0.038
7588.	59.78	7591.	62.14	0.039

7594.	62.14	7598.	59.78	0.038
7602.	58.68	7605.	60.95	0.039
7609.	60.95	7613.	58.68	0.037
7616.	57.63	7620.	59.78	0.037
7626.	59.78	7629.	62.14	0.039
7629.	62.14	7632.	64.69	0.041
7636.	64.69	7640.	62.14	0.039
7647.	60.95	7651.	58.68	0.037
7651.	58.68	7655.	56.57	0.036
7688.	57.63	7691.	59.78	0.037
7705.	60.95	7710.	57.63	0.055
7728.	56.57	7731.	58.68	0.037
7731.	58.68	7736.	56.57	0.036
7750.	57.63	7754.	55.59	0.035
7754.	55.59	7758.	57.63	0.037
7758.	57.63	7761.	59.78	0.037
7764.	59.78	7768.	56.57	0.054
7772.	56.57	7776.	58.68	0.037
7779.	59.78	7783.	56.57	0.054
7787.	55.59	7790.	58.68	0.056
7794.	58.68	7798.	56.57	0.036
7802.	55.59	7805.	58.68	0.056
7808.	58.68	7813.	55.59	0.053
7816.	56.57	7819.	59.78	0.057
7819.	59.78	7824.	57.63	0.036
7830.	57.63	7834.	59.78	0.037
7834.	59.78	7838.	56.57	0.054
7842.	56.57	7845.	58.68	0.037
7849.	58.68	7853.	56.57	0.036
7890.	57.63	7893.	59.78	0.037
7926.	58.68	7930.	56.57	0.036
7977.	59.78	7981.	57.63	0.036
8000.	55.59	8003.	57.63	0.037
8043.	58.68	8046.	60.95	0.039
8057.	58.68	8060.	60.95	0.039
8071.	58.68	8074.	60.95	0.039
8088.	63.37	8092.	60.95	0.038
8138.	59.78	8140.	63.37	0.060
8158.	63.37	8162.	59.78	0.057
8179.	59.78	8182.	62.14	0.039
8209.	63.37	8213.	60.95	0.038
8257.	60.95	8260.	63.37	0.040
8264.	62.14	8268.	59.78	0.038
8330.	62.14	8334.	59.78	0.038
8344.	60.95	8348.	58.68	0.037
8366.	57.63	8369.	59.78	0.037
8387.	59.78	8391.	57.63	0.036
8427.	58.68	8431.	56.57	0.036
8448.	58.68	8452.	60.95	0.039
8496.	60.95	8500.	58.68	0.037
8526.	57.63	8530.	54.64	0.052
8549.	54.64	8552.	57.63	0.055
8664.	59.78	8668.	57.63	0.036
8720.	63.37	8724.	60.95	0.038
8734.	62.14	8738.	59.78	0.038
8741.	58.68	8744.	60.95	0.039
8748.	62.14	8752.	59.78	0.038
8755.	59.78	8758.	62.14	0.039
8762.	60.95	8766.	58.68	0.037
8769.	58.68	8772.	60.95	0.039
8780.	58.68	8783.	60.95	0.039
8807.	60.95	8810.	63.37	0.040
8824.	62.14	8827.	64.69	0.041

8827.	64.69	8831.	60.95	0.058
8845.	60.95	8848.	58.68	0.037
8848.	58.68	8851.	62.14	0.059
8868.	63.37	8872.	59.78	0.057
8904.	59.78	8907.	62.14	0.039
8910.	60.95	8913.	63.37	0.040
8920.	64.69	8924.	62.14	0.039
8940.	62.14	8943.	66.02	0.062
8960.	64.69	8964.	62.14	0.039
8964.	62.14	8966.	64.69	0.041
8973.	66.02	8977.	63.37	0.040
8980.	62.14	8983.	64.69	0.041
8983.	64.69	8987.	62.14	0.039
8994.	60.95	8997.	63.37	0.040
9000.	63.37	9004.	60.95	0.038
9004.	60.95	9007.	63.37	0.040
9024.	62.14	9028.	59.78	0.038
9028.	59.78	9031.	62.14	0.039
9034.	62.14	9037.	64.69	0.041
9037.	64.69	9041.	62.14	0.039
9058.	62.14	9060.	66.02	0.062
9078.	62.14	9082.	59.78	0.038
9120.	62.14	9124.	59.78	0.038
9124.	59.78	9126.	62.14	0.039
9140.	62.14	9143.	64.69	0.041
9143.	64.69	9147.	62.14	0.039
9174.	60.95	9178.	58.68	0.037
9185.	60.95	9189.	58.68	0.037
9192.	57.63	9196.	59.78	0.037
9213.	60.95	9217.	58.68	0.037
9220.	58.68	9224.	60.95	0.039
9234.	59.78	9238.	62.14	0.039
9241.	60.95	9245.	58.68	0.037
9249.	58.68	9252.	60.95	0.039
9311.	57.63	9315.	55.59	0.035
9333.	56.57	9336.	59.78	0.057
9433.	56.57	9436.	58.68	0.037
9440.	57.63	9444.	55.59	0.035
9448.	56.57	9451.	58.68	0.037
9454.	59.78	9458.	57.63	0.036
9462.	56.57	9466.	58.68	0.037
9495.	58.68	9499.	56.57	0.036
9506.	56.57	9510.	58.68	0.037
9517.	57.63	9520.	59.78	0.037
9619.	57.63	9622.	59.78	0.037
9636.	60.95	9640.	58.68	0.037
9673.	57.63	9676.	59.78	0.037
9694.	58.68	9698.	56.57	0.036
9716.	59.78	9719.	62.14	0.039
9736.	60.95	9740.	58.68	0.037
9748.	58.68	9752.	56.57	0.036
9769.	58.68	9772.	60.95	0.039
9776.	60.95	9780.	58.68	0.037
9790.	59.78	9794.	57.63	0.036
9850.	57.63	9854.	55.59	0.035
9872.	55.59	9876.	57.63	0.037
9919.	58.68	9924.	56.57	0.036
9927.	56.57	9930.	58.68	0.037
9934.	58.68	9938.	56.57	0.036
9942.	56.57	9945.	58.68	0.037
9948.	59.78	9953.	56.57	0.054
9956.	55.59	9960.	57.63	0.037
9963.	58.68	9968.	56.57	0.036

9971.	55.59	9974.	58.68	0.056
10001.	56.57	10004.	58.68	0.037
10004.	58.68	10008.	55.59	0.053
10008.	55.59	10012.	57.63	0.037
10019.	57.63	10024.	55.59	0.035
10058.	53.70	10062.	55.59	0.035
10074.	54.64	10077.	56.57	0.035
10081.	56.57	10085.	54.64	0.034
10104.	54.64	10108.	56.57	0.035
10123.	55.59	10128.	53.70	0.034
10155.	54.64	10159.	52.81	0.034
10178.	53.70	10182.	55.59	0.035
10217.	54.64	10222.	52.81	0.034
10241.	52.81	10245.	54.64	0.035
10260.	54.64	10265.	52.81	0.034
10284.	54.64	10287.	56.57	0.035
10291.	55.59	10296.	53.70	0.034
10307.	54.64	10311.	52.81	0.034
10315.	52.81	10319.	54.64	0.035
10331.	52.81	10334.	54.64	0.035
10373.	54.64	10376.	56.57	0.035
10392.	56.57	10395.	58.68	0.037
10395.	58.68	10399.	55.59	0.053
10414.	56.57	10418.	54.64	0.034
10418.	54.64	10422.	56.57	0.035
10447.	56.57	10451.	58.68	0.037
10455.	57.63	10459.	55.59	0.035
10481.	56.57	10484.	58.68	0.037
10484.	58.68	10489.	56.57	0.036
10506.	57.63	10510.	60.95	0.058
10510.	60.95	10514.	58.68	0.037
10524.	59.78	10529.	56.57	0.054
10532.	55.59	10536.	58.68	0.056
10539.	58.68	10544.	55.59	0.053
10547.	55.59	10550.	58.68	0.056
10554.	59.78	10558.	56.57	0.054
10562.	56.57	10565.	58.68	0.037
10576.	57.63	10579.	59.78	0.037
10597.	58.68	10602.	56.57	0.036
10620.	56.57	10623.	58.68	0.037
10649.	57.63	10652.	60.95	0.058
10666.	60.95	10670.	58.68	0.037
10703.	57.63	10706.	59.78	0.037
10724.	59.78	10728.	57.63	0.036
10764.	58.68	10768.	56.57	0.036
10776.	56.57	10779.	58.68	0.037
10786.	59.78	10789.	62.14	0.039
10807.	59.78	10811.	57.63	0.036
10858.	56.57	10861.	58.68	0.037
10871.	60.95	10874.	63.37	0.040
10878.	64.69	10882.	62.14	0.039
10889.	60.95	10893.	58.68	0.037
10900.	57.63	10903.	59.78	0.037
10918.	59.78	10922.	57.63	0.036
10925.	56.57	10928.	56.68	0.037
10939.	58.68	10942.	60.95	0.039
10946.	60.95	10950.	58.68	0.037
10960.	59.78	10964.	57.63	0.036
11010.	59.78	11013.	62.14	0.039
11130.	62.14	11133.	64.69	0.041
11133.	64.69	11137.	60.95	0.058
11161.	62.14	11165.	59.78	0.038
11165.	59.78	11168.	62.14	0.039

11182.	60.95	11185.	64.69	0.061
11185.	64.69	11188.	62.14	0.039
11202.	64.69	11206.	60.95	0.058
11223.	59.78	11226.	62.14	0.039
11254.	62.14	11258.	59.78	0.038
11274.	60.95	11278.	63.37	0.040
11281.	64.69	11285.	62.14	0.039
11285.	62.14	11288.	64.69	0.041
11302.	60.95	11304.	64.69	0.061
11304.	64.69	11308.	62.14	0.039
11308.	62.14	11312.	59.78	0.038
11322.	62.14	11326.	59.78	0.038
11329.	59.78	11332.	63.37	0.060
11349.	63.37	11353.	60.95	0.038
11360.	62.14	11364.	59.78	0.038
11388.	60.95	11392.	58.68	0.037
11409.	59.78	11412.	62.14	0.039
11443.	62.14	11447.	59.78	0.038
11481.	63.37	11485.	60.95	0.038
11502.	60.95	11505.	63.37	0.040
11508.	63.37	11512.	60.95	0.038
11536.	62.14	11540.	59.78	0.038
11556.	60.95	11560.	63.37	0.040
11563.	63.37	11567.	60.95	0.038
11584.	59.78	11587.	62.14	0.039
11615.	62.14	11619.	59.78	0.038
11619.	59.78	11622.	62.14	0.039
11635.	62.14	11638.	64.69	0.041
11638.	64.69	11642.	62.14	0.039
11668.	63.37	11672.	60.95	0.038
11718.	59.78	11720.	63.37	0.060
11724.	62.14	11727.	64.69	0.041
11730.	66.02	11733.	68.91	0.044
11733.	68.91	11737.	66.02	0.042
11753.	63.37	11756.	66.02	0.042
11756.	66.02	11760.	63.37	0.040
11763.	63.37	11767.	60.95	0.038
11767.	60.95	11770.	63.37	0.040
11787.	63.37	11791.	59.78	0.057
11866.	62.14	11870.	59.78	0.038
11874.	59.78	11877.	62.14	0.039
11894.	62.14	11898.	59.78	0.038
11916.	59.78	11919.	62.14	0.039
11936.	60.95	11940.	58.68	0.037
11944.	58.68	11947.	60.95	0.039
11958.	58.68	11961.	60.95	0.039
12003.	63.37	12007.	60.95	0.038
12016.	63.37	12020.	60.95	0.038
12024.	60.95	12027.	63.37	0.040
12081.	63.37	12085.	60.95	0.038
12088.	59.78	12092.	62.14	0.039
12106.	60.95	12108.	63.37	0.040
12108.	63.37	12112.	60.95	0.038
12116.	60.95	12119.	63.37	0.040
12126.	63.37	12129.	60.95	0.038
12129.	60.95	12132.	63.37	0.040
12146.	62.14	12149.	64.69	0.041
12158.	66.02	12161.	68.91	0.044
12161.	68.91	12165.	66.02	0.042
12172.	66.02	12175.	63.37	0.040
12186.	62.14	12189.	59.78	0.038
12203.	59.78	12206.	62.14	0.039
12210.	62.14	12212.	64.69	0.041

12212.	64.69	12216.	62.14	0.039
12216.	62.14	12219.	64.69	0.041
12274.	60.95	12277.	64.69	0.061
12287.	64.69	12290.	67.41	0.042
12290.	67.41	12294.	64.69	0.040
12353.	60.95	12356.	63.37	0.040
12372.	64.69	12376.	62.14	0.039
12392.	63.37	12396.	66.02	0.042
12396.	66.02	12400.	62.14	0.059
12403.	63.37	12406.	60.95	0.038
12406.	60.95	12409.	64.69	0.061
12409.	64.69	12413.	60.95	0.058
12416.	60.95	12420.	63.37	0.040
12426.	63.37	12430.	60.95	0.038
12430.	60.95	12433.	63.37	0.040
12436.	63.37	12440.	60.95	0.038
12458.	59.78	12461.	62.14	0.039
12464.	62.14	12468.	59.78	0.038
12526.	59.78	12530.	62.14	0.039
12571.	62.14	12575.	59.78	0.038
12621.	57.63	12624.	59.78	0.037
12648.	59.78	12652.	62.14	0.039
12673.	58.68	12676.	60.95	0.039
12694.	59.78	12698.	57.63	0.036
12716.	58.68	12719.	60.95	0.039
12737.	59.78	12741.	57.63	0.036
12759.	58.68	12762.	60.95	0.039
12776.	60.95	12780.	58.68	0.037
12868.	59.78	12872.	62.14	0.039
12872.	62.14	12876.	59.78	0.038
12886.	60.95	12890.	58.68	0.037
12893.	58.68	12896.	60.95	0.039
12907.	59.78	12910.	62.14	0.039
12914.	62.14	12918.	59.78	0.038
12928.	60.95	12932.	58.68	0.037
12936.	57.63	12939.	59.78	0.037
12950.	58.68	12953.	60.95	0.039
12956.	62.14	12960.	59.78	0.038
12964.	58.68	12967.	60.95	0.039
12970.	62.14	12974.	59.78	0.038
12984.	60.95	12988.	58.68	0.037
12992.	58.68	12995.	60.95	0.039
13005.	60.95	13008.	63.37	0.040
13008.	63.37	13012.	60.95	0.038
13022.	62.14	13026.	59.78	0.038
13036.	62.14	13040.	59.78	0.038
13044.	59.78	13047.	62.14	0.039
13058.	59.78	13061.	62.14	0.039
13078.	62.14	13082.	59.78	0.038
13221.	60.95	13224.	63.37	0.040
13252.	62.14	13256.	59.78	0.038
13273.	60.95	13276.	63.37	0.040
13294.	59.78	13298.	57.63	0.036
13343.	59.78	13346.	62.14	0.039
13388.	60.95	13392.	58.68	0.037
13439.	57.63	13442.	59.78	0.037
13460.	59.78	13464.	57.63	0.036
13528.	59.78	13532.	57.63	0.036
13556.	60.95	13560.	58.68	0.037
13578.	56.57	13582.	58.68	0.037
13618.	57.63	13621.	59.78	0.037
13639.	59.78	13643.	57.63	0.036
13646.	57.63	13650.	59.78	0.037

13735.	59.78	13739.	57.63	0.036
13756.	59.78	13759.	62.14	0.039
13777.	60.95	13781.	58.68	0.037
13792.	58.68	13796.	56.57	0.036
13803.	56.57	13806.	58.68	0.037
13813.	59.78	13816.	62.14	0.039
13830.	63.37	13834.	60.95	0.038
13845.	59.78	13849.	57.63	0.036
13852.	56.57	13856.	58.68	0.037
13874.	58.68	13878.	56.57	0.036
13896.	57.63	13899.	59.78	0.037
13930.	60.95	13934.	58.68	0.037
13986.	57.63	13990.	55.59	0.035
14008.	56.57	14012.	58.68	0.037
14022.	58.68	14026.	60.95	0.039
14036.	60.95	14039.	63.37	0.040
14042.	63.37	14046.	60.95	0.038
14063.	60.95	14066.	63.37	0.040
14094.	60.95	14098.	58.68	0.037
14146.	57.63	14149.	59.78	0.037
14167.	59.78	14172.	55.59	0.070
14190.	55.59	14193.	58.68	0.056
14197.	58.68	14201.	56.57	0.036
14219.	57.63	14222.	59.78	0.037
14222.	59.78	14227.	57.63	0.036
14245.	56.57	14248.	58.68	0.037
14252.	58.68	14256.	56.57	0.036
14274.	58.68	14277.	62.14	0.059
14280.	62.14	14284.	59.78	0.038
14295.	58.68	14299.	56.57	0.036
14303.	56.57	14306.	58.68	0.037
14342.	57.63	14346.	59.78	0.037
14408.	59.78	14412.	57.63	0.036
14436.	60.95	14440.	58.68	0.037
14476.	57.63	14480.	55.59	0.035
14499.	55.59	14502.	57.63	0.037
14514.	56.57	14517.	58.68	0.037
14520.	59.78	14524.	57.63	0.036
14535.	59.78	14539.	57.63	0.036
14542.	56.57	14546.	58.68	0.037
14574.	59.78	14578.	57.63	0.036
14607.	57.63	14610.	59.78	0.037
14610.	59.78	14613.	62.14	0.039
14630.	62.14	14634.	59.78	0.038
14638.	58.68	14641.	60.95	0.039
14652.	58.68	14655.	60.95	0.039
14685.	63.37	14689.	60.95	0.038
14706.	59.78	14710.	62.14	0.039
14717.	60.95	14720.	63.37	0.040
14723.	63.37	14727.	60.95	0.038
14737.	62.14	14741.	59.78	0.038
14751.	62.14	14755.	59.78	0.038
14772.	60.95	14775.	63.37	0.040
14778.	63.37	14782.	60.95	0.038
14792.	63.37	14796.	60.95	0.038
14798.	62.14	14802.	64.69	0.041
14812.	63.37	14815.	66.02	0.042
14815.	66.02	14818.	63.37	0.040
14829.	62.14	14833.	59.78	0.038
14864.	59.78	14867.	63.37	0.060
14877.	62.14	14880.	64.69	0.041
14883.	66.02	14887.	62.14	0.059
14887.	62.14	14890.	64.69	0.041

14900.	64.69	14904.	62.14	0.039
14904.	62.14	14907.	64.69	0.041
14910.	64.69	14914.	62.14	0.039
14927.	63.37	14930.	60.95	0.038
14930.	60.95	14934.	64.69	0.061
14934.	64.69	14937.	62.14	0.039
14944.	64.69	14947.	62.14	0.039
14990.	63.37	14994.	60.95	0.038
14994.	60.95	14997.	63.37	0.040
15014.	63.37	15018.	60.95	0.038
15021.	62.14	15024.	64.69	0.041
15024.	64.69	15028.	62.14	0.039
15034.	62.14	15037.	66.02	0.062
15037.	66.02	15041.	63.37	0.040
15057.	63.37	15060.	66.02	0.042
15067.	64.69	15071.	62.14	0.039
15071.	62.14	15074.	64.69	0.041
15091.	63.37	15094.	60.95	0.038
15118.	63.37	15122.	60.95	0.038
15125.	60.95	15128.	63.37	0.040
15132.	62.14	15136.	59.78	0.038
15140.	58.68	15143.	60.95	0.039
15146.	59.78	15150.	57.63	0.036
15154.	58.68	15157.	60.95	0.039
15168.	58.68	15171.	60.95	0.039
15171.	60.95	15175.	58.68	0.037
15178.	58.68	15182.	60.95	0.039
15192.	59.78	15196.	62.14	0.039
15206.	59.78	15210.	62.14	0.039
15288.	58.68	15291.	60.95	0.039
15308.	60.95	15312.	58.68	0.037
15345.	57.63	15348.	59.78	0.037
15366.	59.78	15370.	57.63	0.036
15392.	59.78	15396.	57.63	0.036
15414.	57.63	15417.	59.78	0.037
15436.	57.63	15440.	55.59	0.035
15458.	55.59	15462.	57.63	0.037
15584.	55.59	15587.	57.63	0.037
15591.	58.68	15595.	56.57	0.036
15599.	55.59	15602.	57.63	0.037
15602.	57.63	15605.	59.78	0.037
15613.	57.63	15616.	59.78	0.037
15616.	59.78	15619.	62.14	0.039
15623.	60.95	15627.	57.63	0.055
15631.	57.63	15634.	59.78	0.037
15638.	58.68	15642.	55.59	0.053
15646.	55.59	15649.	57.63	0.037
15660.	56.57	15664.	58.68	0.037
15674.	59.78	15677.	62.14	0.039
15692.	59.78	15696.	57.63	0.036
15696.	57.63	15700.	55.59	0.035
15700.	55.59	15703.	57.63	0.037
15720.	60.95	15724.	58.68	0.037
15771.	59.78	15774.	62.14	0.039
15788.	63.37	15792.	60.95	0.038
15802.	60.95	15806.	58.68	0.037
15810.	58.68	15813.	60.95	0.039
15823.	60.95	15826.	63.37	0.040
15830.	62.14	15834.	59.78	0.038
15844.	62.14	15848.	59.78	0.038
15851.	59.78	15854.	62.14	0.039
15858.	62.14	15862.	59.78	0.038
15865.	59.78	15868.	62.14	0.039

15896.	62.14	15900.	59.78	0.038
15917.	59.78	15920.	62.14	0.039
15930.	62.14	15933.	64.69	0.041
15950.	64.69	15953.	62.14	0.039
15964.	62.14	15967.	59.78	0.038
15967.	59.78	15970.	62.14	0.039
15987.	64.69	15990.	62.14	0.039
16083.	63.37	16087.	60.95	0.038
16087.	60.95	16090.	63.37	0.040
16093.	64.69	16097.	60.95	0.058
16110.	63.37	16114.	60.95	0.038
16114.	60.95	16117.	63.37	0.040
16117.	63.37	16121.	60.95	0.038
16172.	62.14	16176.	59.78	0.038
16192.	60.95	16196.	63.37	0.040
16203.	62.14	16206.	59.78	0.038
16206.	59.78	16210.	62.14	0.039
16237.	63.37	16241.	60.95	0.038
16258.	59.78	16261.	63.37	0.060
16278.	62.14	16282.	59.78	0.038
16286.	59.78	16289.	62.14	0.039
16320.	62.14	16324.	59.78	0.038
16386.	60.95	16390.	58.68	0.037
16408.	57.63	16411.	59.78	0.037
16436.	59.78	16439.	62.14	0.039
16457.	59.78	16462.	56.57	0.054
16465.	57.63	16468.	59.78	0.037
16478.	59.78	16482.	62.14	0.039
16482.	62.14	16486.	58.68	0.056
16493.	59.78	16497.	57.63	0.036
16497.	57.63	16501.	55.59	0.035
16505.	55.59	16508.	57.63	0.037
16548.	58.68	16552.	60.95	0.039
16562.	62.14	16565.	64.69	0.041
16568.	63.37	16572.	60.95	0.038
16583.	58.68	16588.	55.59	0.053
16606.	55.59	16610.	57.63	0.037
16613.	56.57	16616.	58.68	0.037
16616.	58.68	16620.	60.95	0.039
16677.	64.69	16681.	62.14	0.039
16691.	62.14	16695.	59.78	0.038
16702.	60.95	16706.	58.68	0.037
16713.	57.63	16716.	59.78	0.037
16724.	58.68	16727.	60.95	0.039
16759.	60.95	16763.	58.68	0.037
16776.	60.95	16780.	58.68	0.037
16780.	58.68	16784.	60.95	0.039
16798.	59.78	16801.	62.14	0.039
16825.	62.14	16829.	59.78	0.038
16846.	60.95	16848.	64.69	0.061
16859.	60.95	16862.	63.37	0.040
16865.	64.69	16869.	62.14	0.039
16879.	64.69	16883.	60.95	0.058
16944.	62.14	16948.	59.78	0.038
16955.	59.78	16958.	63.37	0.060
16958.	63.37	16962.	60.95	0.038
16962.	60.95	16964.	63.37	0.040
16971.	64.69	16975.	62.14	0.039
16978.	60.95	16981.	64.69	0.061
16991.	63.37	16994.	66.02	0.042
16998.	64.69	17002.	62.14	0.039
17018.	63.37	17021.	66.02	0.042
17021.	66.02	17024.	63.37	0.040

17033.	64.69	17042.	60.95	0.058
17045.	62.14	17048.	64.69	0.041
17065.	62.14	17069.	59.78	0.038
17072.	60.95	17075.	63.37	0.040
17075.	63.37	17079.	60.95	0.038
17092.	63.37	17096.	60.95	0.038
17096.	60.95	17099.	63.37	0.040
17116.	63.37	17120.	60.95	0.038
17123.	62.14	17126.	64.69	0.041
17136.	63.37	17139.	66.02	0.042
17142.	64.69	17146.	62.14	0.039
17153.	60.95	17156.	63.37	0.040
17159.	62.14	17162.	64.69	0.041
17178.	66.02	17182.	62.14	0.059
17192.	62.14	17196.	59.78	0.038
17213.	62.14	17216.	64.69	0.041
17223.	64.69	17226.	62.14	0.039
17226.	62.14	17230.	64.69	0.041
17230.	64.69	17233.	62.14	0.039
17246.	64.69	17250.	62.14	0.039
17260.	63.37	17264.	60.95	0.038
17267.	60.95	17270.	63.37	0.040
17277.	62.14	17281.	59.78	0.038
17281.	59.78	17284.	63.37	0.060
17284.	63.37	17288.	60.95	0.038
17301.	62.14	17305.	59.78	0.038
17305.	59.78	17308.	63.37	0.060
17324.	64.69	17328.	60.95	0.058
17345.	62.14	17348.	64.69	0.041
17355.	63.37	17359.	60.95	0.038
17379.	63.37	17383.	60.95	0.038
17393.	62.14	17397.	59.78	0.038
17413.	62.14	17416.	64.69	0.041
17416.	64.69	17420.	60.95	0.058
17420.	60.95	17424.	63.37	0.040
17430.	63.37	17434.	59.78	0.057
17464.	63.37	17468.	66.02	0.042
17477.	64.69	17480.	67.41	0.042
17526.	64.69	17529.	62.14	0.039
17532.	63.37	17536.	60.95	0.038
17624.	62.14	17628.	59.78	0.038
17634.	59.78	17638.	62.14	0.039
17641.	60.95	17644.	63.37	0.040
17647.	64.69	17650.	67.41	0.042
17650.	67.41	17654.	64.69	0.040
17664.	64.69	17668.	62.14	0.039
17684.	60.95	17687.	64.69	0.061
17701.	62.14	17704.	64.69	0.041
17704.	64.69	17708.	60.95	0.058
17708.	60.95	17711.	63.37	0.040
17718.	64.69	17722.	62.14	0.039
17742.	62.14	17746.	59.78	0.038
17768.	66.02	17772.	62.14	0.059
17789.	60.95	17792.	63.37	0.040
17844.	60.95	17847.	63.37	0.040
17861.	63.37	17865.	60.95	0.038
17875.	62.14	17879.	59.78	0.038
17882.	58.68	17886.	60.95	0.039
17939.	55.68	17942.	60.95	0.039
17966.	60.95	17970.	63.37	0.040
17984.	62.14	17988.	59.78	0.038
17993.	60.95	18002.	58.68	0.037
18005.	58.68	18008.	60.95	0.039

18015.	60.95	18019.	58.68	0.037
18019.	58.68	18022.	60.95	0.039
18026.	62.14	18030.	59.78	0.038
18036.	59.78	18040.	62.14	0.039
18040.	62.14	18044.	59.78	0.038
18047.	59.78	18050.	62.14	0.039
18074.	60.95	18077.	63.37	0.040
18104.	64.69	18108.	62.14	0.039
18118.	62.14	18122.	59.78	0.038
18138.	63.37	18141.	66.02	0.042
18151.	63.37	18154.	66.02	0.042
18154.	66.02	18158.	63.37	0.040
18161.	62.14	18165.	59.78	0.038
18165.	59.78	18168.	62.14	0.039
18185.	62.14	18189.	59.78	0.038
18189.	59.78	18192.	62.14	0.039
18210.	62.14	18213.	59.78	0.038
18220.	58.68	18224.	60.95	0.039
18224.	60.95	18228.	58.68	0.037
18245.	58.68	18248.	60.95	0.039
18259.	59.78	18262.	62.14	0.039
18294.	62.14	18298.	59.78	0.038
18354.	58.68	18358.	60.95	0.039
18368.	60.95	18371.	63.37	0.040
18374.	63.37	18378.	60.95	0.038
18389.	59.78	18393.	57.63	0.036
18396.	58.68	18399.	60.95	0.039
18410.	59.78	18413.	62.14	0.039
18417.	60.95	18421.	58.68	0.037
18421.	58.68	18424.	60.95	0.039
18424.	60.95	18427.	63.37	0.040
18430.	64.69	18434.	62.14	0.039
18437.	63.37	18440.	66.02	0.042
18450.	62.14	18453.	64.69	0.041
18480.	63.37	18484.	60.95	0.038
18530.	59.78	18533.	62.14	0.039
18537.	60.95	18541.	58.68	0.037
18544.	57.63	18548.	59.78	0.037
18551.	60.95	18555.	58.68	0.037
18590.	60.95	18594.	58.68	0.037
18611.	59.78	18614.	62.14	0.039
18734.	59.78	18737.	62.14	0.039
18755.	59.78	18759.	57.63	0.036
18762.	58.68	18765.	60.95	0.039
18776.	59.78	18779.	62.14	0.039
18783.	60.95	18787.	58.68	0.037
18790.	57.63	18794.	59.78	0.037
18797.	60.95	18801.	58.68	0.037
18819.	57.63	18822.	59.78	0.037
18829.	58.68	18832.	60.95	0.039
18850.	59.78	18854.	57.63	0.036
18872.	59.78	18875.	62.14	0.039
18892.	60.95	18896.	58.68	0.037
18900.	58.68	18903.	60.95	0.039
18921.	60.95	18925.	58.68	0.037
18945.	62.14	18949.	59.78	0.038
19002.	60.95	19006.	58.68	0.037
19016.	60.95	19020.	58.68	0.037
19023.	58.68	19026.	60.95	0.039
19038.	58.68	19041.	60.95	0.039
19044.	59.78	19048.	57.63	0.036
19052.	57.63	19055.	59.78	0.037
19080.	60.95	19084.	58.68	0.037

19084.	58.68	19088.	56.57	0.036
19102.	56.57	19105.	58.68	0.037
19105.	58.68	19108.	60.95	0.039
19126.	60.95	19130.	58.68	0.037
19204.	57.63	19207.	59.78	0.037
19224.	62.14	19228.	59.78	0.038
19291.	56.57	19294.	58.68	0.037
19304.	60.95	19307.	63.37	0.040
19470.	59.78	19473.	62.14	0.039
19467.	60.95	19491.	58.68	0.037
19491.	58.68	19495.	56.57	0.036
19509.	57.63	19512.	59.78	0.037
19541.	58.68	19544.	60.95	0.039
19556.	57.63	19559.	59.78	0.037
19566.	58.68	19569.	60.95	0.039
19587.	59.78	19591.	57.63	0.036
19609.	58.68	19612.	60.95	0.039
19629.	62.14	19633.	59.78	0.038
19676.	58.68	19679.	60.95	0.039
19682.	60.95	19686.	58.68	0.037
19710.	60.95	19714.	58.68	0.037
19732.	59.78	19735.	62.14	0.039
19759.	60.95	19762.	63.37	0.040
19776.	63.37	19780.	60.95	0.038
19790.	62.14	19794.	59.78	0.038
19797.	59.78	19800.	62.14	0.039
19841.	63.37	19845.	60.95	0.038
19872.	60.95	19876.	58.68	0.037
19894.	59.78	19897.	62.14	0.039
19994.	60.95	19998.	58.68	0.037
20002.	58.68	20005.	60.95	0.039
20009.	60.95	20013.	58.68	0.037
20086.	57.63	20090.	59.78	0.037
20100.	62.14	20103.	64.69	0.041
20120.	60.95	20124.	58.68	0.037
20197.	58.68	20200.	60.95	0.039
20218.	60.95	20222.	58.68	0.037
20256.	62.14	20260.	59.78	0.038
20270.	60.95	20274.	58.68	0.037
20320.	59.78	20323.	62.14	0.039
20341.	59.78	20345.	57.63	0.036
20363.	58.68	20366.	60.95	0.039
20380.	60.95	20384.	58.68	0.037
20417.	56.57	20420.	58.68	0.037
20438.	59.78	20442.	57.63	0.036
20446.	56.57	20449.	58.68	0.037
20474.	58.68	20478.	60.95	0.039
20496.	59.78	20500.	57.63	0.036
20503.	57.63	20506.	59.78	0.037
20517.	59.78	20520.	62.14	0.039
20542.	58.68	20545.	60.95	0.039
20562.	60.95	20566.	58.68	0.037
20584.	59.78	20587.	62.14	0.039
20604.	62.14	20608.	59.78	0.038
20611.	59.78	20614.	62.14	0.039
20643.	60.95	20647.	58.68	0.037
20708.	57.63	20711.	59.78	0.037
20728.	62.14	20732.	59.78	0.038
20739.	58.68	20743.	56.57	0.036
20864.	56.57	20867.	58.68	0.037
20867.	58.68	20872.	56.57	0.036
20890.	55.59	20894.	57.63	0.037
20934.	56.57	20938.	58.68	0.037

20955.	60.95	20959.	58.68	0.037
20977.	58.68	20980.	60.95	0.039
20994.	62.14	20998.	59.78	0.038
21016.	56.57	21020.	58.68	0.037
21030.	58.68	21034.	60.95	0.039
21037.	60.95	21041.	58.68	0.037
21052.	59.78	21056.	57.63	0.036
21059.	57.63	21062.	59.78	0.037
21073.	58.68	21076.	60.95	0.039
21118.	62.14	21122.	59.78	0.038
21126.	58.68	21129.	60.95	0.039
21202.	60.95	21206.	58.68	0.037
21209.	58.68	21212.	60.95	0.039
21274.	62.14	21277.	64.69	0.041
21280.	63.37	21284.	60.95	0.038
21284.	60.95	21287.	63.37	0.040
21301.	60.95	21304.	63.37	0.040
21318.	62.14	21321.	64.69	0.041
21321.	64.69	21325.	62.14	0.039
21359.	62.14	21363.	59.78	0.038
21363.	59.78	21366.	62.14	0.039
21380.	60.95	21383.	63.37	0.040
21383.	63.37	21387.	60.95	0.038
21408.	59.78	21411.	62.14	0.039
21466.	62.14	21470.	59.78	0.038
21480.	60.95	21484.	58.68	0.037
21488.	58.68	21491.	60.95	0.039
21494.	60.95	21498.	58.68	0.037
21502.	59.78	21505.	62.14	0.039
21522.	62.14	21526.	59.78	0.038
21526.	59.78	21529.	62.14	0.039
21543.	60.95	21546.	63.37	0.040
21549.	62.14	21553.	59.78	0.038
21570.	59.78	21573.	63.37	0.060
21573.	63.37	21577.	60.95	0.038
21601.	62.14	21605.	59.78	0.038
21622.	59.78	21626.	62.14	0.039
21629.	62.14	21633.	59.78	0.038
21633.	59.78	21636.	62.14	0.039
21650.	60.95	21653.	63.37	0.040
21653.	63.37	21656.	60.95	0.038
21667.	60.95	21670.	63.37	0.040
21670.	63.37	21674.	60.95	0.038
21688.	60.95	21691.	58.68	0.037
21691.	58.68	21694.	60.95	0.039
21722.	62.14	21726.	59.78	0.038
21757.	59.78	21760.	62.14	0.039
21805.	63.37	21809.	60.95	0.038
21816.	60.95	21820.	58.68	0.037
21826.	58.68	21830.	60.95	0.039
21830.	60.95	21834.	58.68	0.037
21837.	58.68	21840.	60.95	0.039
21844.	60.95	21848.	58.68	0.037
21852.	57.63	21855.	59.78	0.037
21872.	62.14	21876.	59.78	0.038
21894.	58.68	21897.	60.95	0.039
21915.	59.78	21919.	57.63	0.036
21922.	57.63	21926.	59.78	0.037
21936.	58.68	21940.	60.95	0.039
22004.	59.78	22007.	62.14	0.039
22010.	60.95	22014.	58.68	0.037
22018.	59.78	22021.	62.14	0.039
22024.	62.14	22028.	59.78	0.038

22050.	62.14	22094.	59.78	0.038
22098.	59.78	22101.	62.14	0.039
22111.	59.78	22114.	62.14	0.039
22131.	63.37	22135.	60.95	0.038
22145.	62.14	22149.	59.78	0.038
22152.	59.78	22156.	62.14	0.039
22217.	62.14	22220.	64.69	0.041
22304.	62.14	22308.	59.78	0.038
22311.	58.68	22314.	60.95	0.039
22318.	62.14	22322.	59.78	0.038
22325.	59.78	22328.	62.14	0.039
22339.	59.78	22342.	62.14	0.039
22401.	62.14	22405.	59.78	0.038
22408.	59.78	22411.	62.14	0.039
22422.	59.78	22425.	62.14	0.039
22425.	62.14	22429.	59.78	0.038
22432.	59.78	22436.	62.14	0.039
22512.	58.68	22515.	60.95	0.039
22529.	60.95	22532.	63.37	0.040
22532.	63.37	22536.	60.95	0.038
22540.	60.95	22543.	63.37	0.040
22556.	62.14	22559.	64.69	0.041
22559.	64.69	22563.	62.14	0.039
22577.	62.14	22580.	59.78	0.038
22580.	59.78	22583.	63.37	0.060
22600.	64.69	22604.	60.95	0.058
22614.	62.14	22618.	59.78	0.038
22696.	64.69	22699.	62.14	0.039
22746.	64.69	22750.	62.14	0.039
22768.	59.78	22770.	63.37	0.060
22812.	62.14	22816.	59.78	0.038
22861.	58.68	22864.	60.95	0.039
22962.	60.95	22966.	58.68	0.037
22970.	58.68	22973.	60.95	0.039
22998.	59.78	23001.	62.14	0.039
23001.	62.14	23005.	59.78	0.038
23008.	59.78	23012.	62.14	0.039
23015.	62.14	23019.	59.78	0.038
23022.	58.68	23026.	60.95	0.039
23029.	62.14	23033.	59.78	0.038
23050.	58.68	23054.	60.95	0.039
23071.	62.14	23075.	59.78	0.038
23085.	60.95	23089.	58.68	0.037
23092.	58.68	23096.	60.95	0.039
23151.	62.14	23155.	59.78	0.038
23166.	60.95	23170.	58.68	0.037
23216.	57.63	23219.	59.78	0.037
23230.	57.63	23234.	59.78	0.037
23256.	57.63	23259.	59.78	0.037
23262.	60.95	23266.	58.68	0.037
23270.	58.68	23273.	60.95	0.039
23276.	60.95	23280.	58.68	0.037
23284.	57.63	23287.	59.78	0.037
23298.	59.78	23301.	62.14	0.039
23304.	62.14	23308.	59.78	0.038
23318.	60.95	23322.	58.68	0.037
23326.	58.68	23329.	60.95	0.039
23333.	60.95	23337.	58.68	0.037
23340.	57.63	23344.	59.78	0.037
23347.	60.95	23351.	58.68	0.037
23368.	58.68	23372.	60.95	0.039
23372.	60.95	23376.	58.68	0.037
23393.	59.78	23396.	62.14	0.039

23428.	60.95	23432.	58.68	0.037
23463.	59.78	23466.	62.14	0.039
23466.	62.14	23470.	59.78	0.038
23488.	58.68	23491.	60.95	0.039
23494.	62.14	23498.	59.78	0.038
23508.	62.14	23512.	59.78	0.038
23523.	60.95	23527.	58.68	0.037
23530.	58.68	23533.	60.95	0.039
23544.	60.95	23547.	63.37	0.040
23564.	60.95	23568.	58.68	0.037
23586.	59.78	23589.	62.14	0.039
23610.	59.78	23613.	62.14	0.039
23616.	63.37	23620.	60.95	0.038
23623.	60.95	23626.	63.37	0.040
23630.	63.37	23634.	60.95	0.038
23672.	60.95	23676.	58.68	0.037
23678.	59.78	23682.	62.14	0.039
23785.	60.95	23788.	63.37	0.040
23791.	63.37	23795.	60.95	0.038
23812.	59.78	23816.	62.14	0.039
23819.	62.14	23823.	59.78	0.038
23840.	60.95	23843.	63.37	0.040
23850.	60.95	23853.	64.69	0.061
23853.	64.69	23856.	62.14	0.039
23870.	62.14	23874.	59.78	0.038
23878.	59.78	23881.	62.14	0.039
23895.	60.95	23898.	63.37	0.040
23922.	60.95	23925.	63.37	0.040
23925.	63.37	23929.	60.95	0.038
23936.	62.14	23940.	59.78	0.038
23957.	59.78	23960.	62.14	0.039
23963.	62.14	23967.	59.78	0.038
23974.	60.95	23977.	63.37	0.040
23984.	60.95	23987.	63.37	0.040
23994.	63.37	23998.	60.95	0.038
24004.	63.37	24008.	60.95	0.038
24008.	60.95	24011.	63.37	0.040
24024.	62.14	24027.	66.02	0.062
24030.	64.69	24035.	60.95	0.058
24045.	62.14	24048.	59.78	0.038
24052.	58.68	24055.	63.37	0.079
24055.	63.37	24059.	60.95	0.038
24090.	59.78	24093.	62.14	0.039
24172.	60.95	24175.	63.37	0.040
24175.	63.37	24179.	60.95	0.038
24244.	62.14	24248.	59.78	0.038
24265.	60.95	24268.	63.37	0.040
24285.	62.14	24289.	59.78	0.038
24306.	59.78	24310.	62.14	0.039
24317.	60.95	24320.	63.37	0.040
24337.	63.37	24340.	60.95	0.038
24344.	59.78	24347.	62.14	0.039
24364.	62.14	24368.	59.78	0.038
24372.	59.78	24375.	62.14	0.039
24378.	62.14	24382.	59.78	0.038
24385.	60.95	24388.	63.37	0.040
24437.	60.95	24440.	63.37	0.040
24444.	63.37	24448.	60.95	0.038
24465.	59.78	24468.	62.14	0.039
24471.	62.14	24475.	59.78	0.038
24499.	62.14	24503.	59.78	0.038
24565.	62.14	24569.	59.78	0.038
24586.	59.78	24589.	62.14	0.039

24606.	62.14	24610.	59.78	0.038
24614.	59.78	24617.	62.14	0.039
24620.	60.95	24624.	58.68	0.037
24628.	59.78	24631.	62.14	0.039
24634.	60.95	24638.	58.68	0.037
24642.	59.78	24645.	62.14	0.039
24655.	60.95	24658.	63.37	0.040
24722.	58.68	24726.	60.95	0.039
24742.	63.37	24746.	60.95	0.038
24756.	62.14	24760.	59.78	0.038
24764.	58.68	24767.	60.95	0.039
24767.	60.95	24771.	58.68	0.037
24778.	58.68	24781.	60.95	0.039
24864.	62.14	24868.	59.78	0.038
24874.	62.14	24878.	59.78	0.038
24885.	59.78	24888.	62.14	0.039
24888.	62.14	24892.	59.78	0.038
24902.	62.14	24906.	59.78	0.038
24910.	59.78	24913.	62.14	0.039
24924.	59.78	24927.	62.14	0.039
24938.	59.78	24941.	62.14	0.039
24996.	62.14	25000.	59.78	0.038
25017.	58.68	25020.	60.95	0.039
25038.	62.14	25042.	59.78	0.038
25059.	58.68	25062.	60.95	0.039
25147.	59.78	25151.	57.63	0.036
25155.	57.63	25158.	59.78	0.037
25175.	63.37	25179.	59.78	0.057
25197.	57.63	25200.	59.78	0.037
25211.	58.68	25214.	60.95	0.039
25242.	60.95	25246.	58.68	0.037
25270.	60.95	25275.	58.68	0.037
25293.	56.57	25296.	59.78	0.057
25307.	58.68	25310.	60.95	0.039
25313.	62.14	25317.	59.78	0.038
25321.	59.78	25324.	62.14	0.039
25335.	58.68	25338.	60.95	0.039
25422.	62.14	25426.	59.78	0.038
25429.	59.78	25432.	62.14	0.039
25436.	62.14	25440.	59.78	0.038
25450.	60.95	25454.	58.68	0.037
25457.	58.68	25460.	60.95	0.039
25488.	62.14	25492.	59.78	0.038
25509.	59.78	25512.	63.37	0.060
25529.	63.37	25533.	59.78	0.057
25533.	59.78	25536.	62.14	0.039
25550.	60.95	25553.	63.37	0.040
25553.	63.37	25557.	60.95	0.038
25592.	60.95	25594.	63.37	0.040
25614.	63.37	25618.	66.02	0.042
25634.	66.02	25638.	63.37	0.040
25695.	60.95	25698.	64.69	0.061
25708.	64.69	25711.	67.41	0.042
25711.	67.41	25715.	64.69	0.040
25732.	60.95	25735.	63.37	0.040
25745.	62.14	25748.	66.02	0.062
25751.	64.69	25755.	62.14	0.039
25765.	62.14	25769.	59.78	0.038
25772.	59.78	25776.	62.14	0.039
25779.	63.37	25782.	60.95	0.038
25782.	60.95	25785.	63.37	0.040
25788.	64.69	25791.	67.41	0.042
25791.	67.41	25795.	64.69	0.040

25805.	64.69	25809.	62.14	0.039
25812.	60.95	25815.	64.69	0.061
25815.	64.69	25818.	62.14	0.039
25818.	62.14	25821.	64.69	0.041
25825.	63.37	25828.	67.41	0.063
25828.	67.41	25832.	64.69	0.040
25848.	60.95	25851.	64.69	0.061
25868.	63.37	25872.	60.95	0.038
25872.	60.95	25875.	63.37	0.040
25878.	62.14	25881.	64.69	0.041
25881.	64.69	25885.	62.14	0.039
25885.	62.14	25888.	64.69	0.041
25916.	60.95	25918.	64.69	0.061
25932.	64.69	25936.	62.14	0.039
25953.	60.95	25956.	64.69	0.061
25973.	63.37	25976.	60.95	0.038
25983.	60.95	25986.	63.37	0.040
25990.	62.14	25992.	64.69	0.041
25996.	66.02	25998.	68.91	0.044
25998.	68.91	26002.	66.02	0.042
26012.	64.69	26016.	62.14	0.039
26019.	60.95	26022.	63.37	0.040
26032.	63.37	26035.	67.41	0.063
26049.	63.37	26053.	60.95	0.038
26070.	60.95	26073.	63.37	0.040
26083.	63.37	26086.	66.02	0.042
26103.	62.14	26107.	59.78	0.038
26120.	60.95	26123.	63.37	0.040
26126.	64.69	26129.	67.41	0.042
26129.	67.41	26134.	63.37	0.060
26143.	64.69	26147.	62.14	0.039
26150.	62.14	26153.	64.69	0.041
26167.	62.14	26171.	59.78	0.038
26191.	62.14	26194.	64.69	0.041
26194.	64.69	26198.	60.95	0.058
26198.	60.95	26201.	63.37	0.040
26208.	63.37	26212.	60.95	0.038
26215.	60.95	26218.	63.37	0.040
26243.	59.78	26246.	63.37	0.060
26255.	64.69	26258.	68.91	0.065
26262.	67.41	26265.	64.69	0.040
26272.	63.37	26276.	60.95	0.038
26293.	60.95	26296.	64.69	0.061
26312.	64.69	26316.	62.14	0.039
26330.	59.78	26333.	62.14	0.039
26340.	63.37	26344.	60.95	0.038
26361.	59.78	26364.	63.37	0.060
26364.	63.37	26368.	59.78	0.057
26375.	59.78	26378.	63.37	0.060
26381.	62.14	26385.	59.78	0.038
26385.	59.78	26388.	62.14	0.039
26398.	60.95	26401.	63.37	0.040
26419.	62.14	26422.	59.78	0.038
26429.	62.14	26432.	64.69	0.041
26432.	64.69	26436.	62.14	0.039
26436.	62.14	26438.	64.69	0.041
26445.	64.69	26449.	62.14	0.039
26466.	60.95	26469.	63.37	0.040
26483.	60.95	26486.	63.37	0.040
26486.	63.37	26490.	60.95	0.038
26503.	63.37	26507.	60.95	0.038
26507.	60.95	26510.	64.69	0.061
26510.	64.69	26514.	62.14	0.039

26530.	62.14	26533.	66.02	0.062
26550.	64.69	26553.	62.14	0.039
26553.	62.14	26556.	64.69	0.041
26563.	66.02	26567.	63.37	0.040
26570.	62.14	26573.	64.69	0.041
26573.	64.69	26576.	62.14	0.039
26584.	60.95	26587.	63.37	0.040
26590.	63.37	26594.	60.95	0.038
26594.	60.95	26596.	63.37	0.040
26603.	64.69	26607.	62.14	0.039
26624.	60.95	26627.	64.69	0.061
26627.	64.69	26631.	62.14	0.039
26631.	62.14	26634.	64.69	0.041
26640.	64.69	26644.	62.14	0.039
26658.	62.14	26662.	59.78	0.038
26662.	59.78	26664.	63.37	0.060
26682.	62.14	26686.	59.78	0.038
26692.	62.14	26695.	64.69	0.041
26695.	64.69	26699.	62.14	0.039
26699.	62.14	26702.	64.69	0.041
26708.	64.69	26712.	62.14	0.039
26730.	59.78	26732.	63.37	0.060
26736.	62.14	26739.	64.69	0.041
26742.	63.37	26745.	67.41	0.063
26745.	67.41	26749.	64.69	0.040
26766.	60.95	26769.	64.69	0.061
26786.	64.69	26789.	62.14	0.039
26803.	59.78	26806.	62.14	0.039
26809.	63.37	26812.	66.02	0.042
26812.	66.02	26816.	63.37	0.040
26816.	63.37	26819.	66.02	0.042
26826.	64.69	26830.	62.14	0.039
26846.	60.95	26849.	64.69	0.061
26849.	64.69	26853.	62.14	0.039
26870.	59.78	26873.	63.37	0.060
26884.	62.14	26887.	64.69	0.041
26890.	63.37	26894.	60.95	0.038
26901.	60.95	26904.	63.37	0.040
26904.	63.37	26908.	60.95	0.038
26908.	60.95	26910.	63.37	0.040
26917.	64.69	26921.	62.14	0.039
26938.	60.95	26941.	63.37	0.040
26955.	60.95	26958.	63.37	0.040
26958.	63.37	26962.	60.95	0.038
26962.	60.95	26965.	63.37	0.040
26979.	60.95	26982.	64.69	0.061
26982.	64.69	26985.	62.14	0.039
26985.	62.14	26988.	64.69	0.041
26995.	66.02	26999.	63.37	0.040
27002.	62.14	27005.	64.69	0.041
27005.	64.69	27008.	62.14	0.039
27016.	60.95	27019.	63.37	0.040
27022.	63.37	27026.	60.95	0.038
27026.	60.95	27028.	63.37	0.040
27032.	63.37	27035.	66.02	0.042
27035.	66.02	27039.	63.37	0.040
27042.	63.37	27045.	66.02	0.042
27045.	66.02	27048.	63.37	0.040
27052.	64.69	27055.	62.14	0.039
27055.	62.14	27058.	64.69	0.041
27062.	63.37	27066.	60.95	0.038
27066.	60.95	27068.	63.37	0.040
27072.	62.14	27075.	64.69	0.041

27075.	64.69	27079.	62.14	0.039
27086.	63.37	27089.	60.95	0.038
27089.	60.95	27092.	63.37	0.040
27092.	63.37	27096.	60.95	0.038
27096.	60.95	27099.	63.37	0.040
27099.	63.37	27103.	60.95	0.038
27106.	62.14	27109.	64.69	0.041
27109.	64.69	27112.	62.14	0.039
27119.	62.14	27122.	64.69	0.041
27126.	64.69	27129.	62.14	0.039
27129.	62.14	27132.	64.69	0.041
27139.	64.69	27143.	62.14	0.039
27146.	62.14	27149.	64.69	0.041
27149.	64.69	27152.	62.14	0.039
27160.	60.95	27163.	63.37	0.040
27166.	64.69	27170.	60.95	0.058
27170.	60.95	27172.	63.37	0.040
27186.	63.37	27188.	67.41	0.063
27188.	67.41	27192.	63.37	0.060
27205.	66.02	27208.	63.37	0.040
27208.	63.37	27212.	66.02	0.042
27214.	67.41	27218.	63.37	0.060
27231.	64.69	27235.	62.14	0.039
27235.	62.14	27238.	64.69	0.041
27257.	66.02	27261.	63.37	0.040
27264.	64.69	27268.	62.14	0.039
27281.	63.37	27285.	60.95	0.038
27291.	63.37	27295.	60.95	0.038
27302.	59.78	27305.	62.14	0.039
27315.	62.14	27318.	64.69	0.041
27338.	63.37	27341.	67.41	0.063
27341.	67.41	27344.	64.69	0.040
27351.	66.02	27355.	63.37	0.040
27358.	63.37	27362.	59.78	0.057
27365.	60.95	27368.	63.37	0.040
27368.	63.37	27372.	60.95	0.038
27379.	60.95	27382.	63.37	0.040
27385.	64.69	27389.	60.95	0.058
27403.	60.95	27406.	58.68	0.037
27406.	58.68	27410.	60.95	0.039
27412.	62.14	27416.	59.78	0.038
27416.	59.78	27419.	63.37	0.060
27432.	63.37	27435.	67.41	0.063
27435.	67.41	27439.	63.37	0.060
27456.	60.95	27459.	64.69	0.061
27468.	66.02	27471.	68.91	0.044
27500.	66.02	27504.	63.37	0.040
27514.	64.69	27518.	62.14	0.039
27528.	62.14	27532.	59.78	0.038
27548.	60.95	27552.	63.37	0.040
27565.	63.37	27569.	60.95	0.038
27586.	62.14	27589.	64.69	0.041
27589.	64.69	27592.	62.14	0.039
27606.	62.14	27610.	59.78	0.038
27634.	62.14	27638.	59.78	0.038
27648.	60.95	27652.	66.02	0.083
27672.	63.37	27676.	60.95	0.038
27676.	60.95	27679.	63.37	0.040
27682.	63.37	27685.	66.02	0.042
27685.	66.02	27689.	63.37	0.040
27702.	64.69	27705.	62.14	0.039
27705.	62.14	27709.	64.69	0.041
27732.	63.37	27735.	66.02	0.042

27735.	66.02	27739.	63.37	0.040
27785.	66.02	27789.	63.37	0.040
27789.	63.37	27792.	60.95	0.038
27825.	64.69	27827.	67.41	0.042
27827.	67.41	27831.	64.69	0.040
27835.	63.37	27837.	67.41	0.063
27841.	67.41	27844.	64.69	0.040
27847.	63.37	27850.	67.41	0.063
27853.	67.41	27857.	63.37	0.060
27861.	63.37	27863.	66.02	0.042
27867.	66.02	27871.	62.14	0.059
27874.	62.14	27877.	66.02	0.062
27880.	66.02	27883.	63.37	0.040
27887.	63.37	27890.	66.02	0.042
27893.	66.02	27897.	63.37	0.040
27949.	63.37	27952.	66.02	0.042
27962.	64.69	27965.	67.41	0.042
27968.	67.41	27972.	64.69	0.040
27988.	63.37	27991.	66.02	0.042
27991.	66.02	27995.	63.37	0.040
28010.	66.02	28013.	68.91	0.044
28036.	64.69	28039.	67.41	0.042
28055.	68.91	28058.	66.02	0.042
28074.	64.69	28077.	67.41	0.042
28092.	70.43	28096.	67.41	0.043
28096.	67.41	28099.	64.69	0.040
28103.	64.69	28106.	62.14	0.039
28113.	62.14	28115.	64.69	0.041
28154.	66.02	28158.	63.37	0.040
28158.	63.37	28162.	59.78	0.057
28165.	60.95	28168.	64.69	0.061
28168.	64.69	28172.	62.14	0.039
28175.	60.95	28178.	63.37	0.040
28178.	63.37	28181.	66.02	0.042
28181.	66.02	28185.	63.37	0.040
28201.	62.14	28204.	66.02	0.062
28204.	66.02	28208.	62.14	0.059
28225.	60.95	28228.	63.37	0.040
28245.	62.14	28249.	59.78	0.038
28253.	59.78	28256.	62.14	0.039
28266.	60.95	28269.	63.37	0.040
28273.	63.37	28277.	60.95	0.038
28293.	62.14	28296.	64.69	0.041
28296.	64.69	28300.	62.14	0.039
28313.	63.37	28317.	60.95	0.038
28323.	63.37	28327.	60.95	0.038
28345.	59.78	28348.	62.14	0.039
28365.	60.95	28370.	57.63	0.055
28373.	57.63	28377.	59.78	0.037
28380.	59.78	28384.	57.63	0.036
28388.	56.57	28391.	58.68	0.037
28395.	59.78	28399.	57.63	0.036
28437.	62.14	28441.	59.78	0.038
28458.	59.78	28462.	62.14	0.039
28504.	60.95	28508.	58.68	0.037
28511.	58.68	28515.	60.95	0.039
28518.	60.95	28522.	58.68	0.037
28526.	57.63	28529.	59.78	0.037
28539.	58.68	28543.	62.14	0.059
28591.	59.78	28595.	62.14	0.039
28619.	60.95	28622.	63.37	0.040
28625.	62.14	28629.	59.78	0.038
28673.	63.37	28677.	66.02	0.042

28677.	66.02	28680.	63.37	0.040
28690.	63.37	28694.	60.95	0.038
28704.	62.14	28708.	59.78	0.038
28725.	59.78	28729.	62.14	0.039
28759.	62.14	28763.	59.78	0.038
28767.	59.78	28769.	62.14	0.039
28780.	59.78	28783.	62.14	0.039
28787.	62.14	28791.	59.78	0.038
28825.	62.14	28829.	59.78	0.038
28839.	60.95	28843.	58.68	0.037
28846.	58.68	28849.	62.14	0.059
28853.	63.37	28857.	60.95	0.038
28860.	60.95	28863.	63.37	0.040
28867.	62.14	28871.	59.78	0.038
28874.	59.78	28877.	62.14	0.039
28881.	60.95	28885.	58.68	0.037
28888.	59.78	28891.	62.14	0.039
28895.	60.95	28899.	58.68	0.037
28902.	59.78	28905.	62.14	0.039
28909.	60.95	28913.	58.68	0.037
28916.	59.78	28919.	62.14	0.039
28919.	62.14	28923.	59.78	0.038
28941.	58.68	28944.	60.95	0.039
29002.	63.37	29006.	60.95	0.038
29016.	62.14	29020.	59.78	0.038
29023.	59.78	29026.	62.14	0.039
29030.	62.14	29034.	59.78	0.038
29037.	59.78	29040.	62.14	0.039
29040.	62.14	29044.	59.78	0.038
29095.	63.37	29099.	60.95	0.038
29099.	60.95	29103.	58.68	0.037
29103.	58.68	29106.	60.95	0.039
29117.	58.68	29120.	60.95	0.039
29120.	60.95	29123.	63.37	0.040
29130.	60.95	29133.	63.37	0.040
29137.	63.37	29141.	60.95	0.038
29157.	60.95	29161.	63.37	0.040
29161.	63.37	29165.	59.78	0.057
29165.	59.78	29167.	62.14	0.039
29181.	62.14	29184.	64.69	0.041
29184.	64.69	29188.	62.14	0.039
29209.	59.78	29212.	62.14	0.039
29222.	63.37	29225.	66.02	0.042
29292.	60.95	29296.	58.68	0.037
29313.	59.78	29317.	62.14	0.039
29327.	60.95	29330.	63.37	0.040
29330.	63.37	29334.	60.95	0.038
29341.	59.78	29344.	63.37	0.060
29361.	64.69	29364.	62.14	0.039
29395.	59.78	29399.	62.14	0.039
29399.	62.14	29403.	59.78	0.038
29413.	62.14	29417.	59.78	0.038
29420.	59.78	29423.	62.14	0.039
29434.	59.78	29437.	62.14	0.039
29440.	62.14	29444.	59.78	0.038
29462.	58.68	29465.	60.95	0.039
29483.	60.95	29487.	58.68	0.037
29504.	59.78	29507.	62.14	0.039
29571.	55.59	29574.	57.63	0.037
29574.	57.63	29577.	59.78	0.037
29592.	60.95	29596.	58.68	0.037
29617.	60.95	29621.	58.68	0.037
29645.	58.38	29649.	56.57	0.036

29653.	56.57	29656.	58.68	0.037
29656.	58.68	29659.	60.95	0.039
29670.	60.95	29674.	58.68	0.037
29674.	58.68	29678.	56.57	0.036
29692.	57.63	29695.	59.78	0.037
29695.	59.78	29699.	62.14	0.039
29717.	59.78	29721.	57.63	0.036
29724.	56.57	29727.	58.68	0.037
29753.	56.57	29757.	58.68	0.037
29757.	58.68	29761.	56.57	0.036
29765.	56.57	29768.	58.68	0.037
29779.	57.63	29782.	59.78	0.037
29786.	59.78	29790.	57.63	0.036
29807.	58.68	29811.	60.95	0.039
29828.	60.95	29832.	58.68	0.037
29850.	58.68	29853.	60.95	0.039
29867.	60.95	29871.	58.68	0.037
29878.	58.68	29881.	60.95	0.039
29881.	60.95	29885.	58.68	0.037
29903.	59.78	29906.	62.14	0.039
29978.	60.95	29982.	58.68	0.037
29985.	59.78	29989.	62.14	0.039
29989.	62.14	29993.	59.78	0.038
29999.	59.78	30003.	62.14	0.039
30003.	62.14	30007.	59.78	0.038
30010.	58.68	30013.	60.95	0.039
30017.	62.14	30021.	59.78	0.038
30031.	62.14	30035.	59.78	0.038
30038.	59.78	30041.	62.14	0.039
30059.	60.95	30063.	58.68	0.037
30080.	59.78	30083.	62.14	0.039
30190.	59.78	30193.	62.14	0.039
30200.	60.95	30203.	63.37	0.040
30230.	63.37	30234.	60.95	0.038
30234.	60.95	30237.	63.37	0.040
30251.	60.95	30254.	63.37	0.040
30254.	63.37	30258.	60.95	0.038
30265.	63.37	30269.	60.95	0.038
30306.	60.95	30309.	63.37	0.040
30316.	62.14	30320.	59.78	0.038
30320.	59.78	30323.	62.14	0.039
30386.	60.95	30389.	63.37	0.040
30465.	63.37	30467.	66.02	0.042
30467.	66.02	30471.	63.37	0.040
30481.	66.02	30485.	63.37	0.040
30488.	62.14	30491.	64.69	0.041
30494.	66.02	30498.	63.37	0.040
30507.	66.02	30511.	63.37	0.040
30542.	59.78	30545.	62.14	0.039
30555.	62.14	30558.	66.02	0.062
30558.	66.02	30562.	63.37	0.040
30569.	63.37	30571.	66.02	0.042
30571.	66.02	30575.	63.37	0.040
30579.	62.14	30582.	64.69	0.041
30589.	63.37	30592.	60.95	0.038
30592.	60.95	30595.	63.37	0.040
30626.	63.37	30630.	60.95	0.038
30630.	60.95	30633.	63.37	0.040
30647.	60.95	30650.	63.37	0.040
30650.	63.37	30654.	60.95	0.038
30667.	62.14	30671.	59.78	0.038
30678.	62.14	30682.	59.78	0.038
30705.	62.14	30709.	59.78	0.038

30867.	62.14	30871.	59.78	0.038
30871.	59.78	30874.	62.14	0.039
30895.	62.14	30899.	59.78	0.038
30933.	62.14	30937.	59.78	0.038
30937.	59.78	30939.	62.14	0.039
30953.	62.14	30956.	66.02	0.062
30956.	66.02	30959.	63.37	0.040
30970.	62.14	30973.	64.69	0.041
30973.	64.69	30977.	60.95	0.058
30990.	62.14	30994.	59.78	0.038
30994.	59.78	30997.	62.14	0.039
31014.	63.37	31018.	60.95	0.038
31024.	62.14	31028.	59.78	0.038
31035.	59.78	31038.	63.37	0.060
31038.	63.37	31042.	60.95	0.038
31045.	60.95	31048.	63.37	0.040
31055.	63.37	31059.	60.95	0.038
31059.	60.95	31062.	63.37	0.040
31078.	64.69	31082.	62.14	0.039
31092.	63.37	31096.	60.95	0.038
31105.	64.69	31109.	62.14	0.039
31113.	60.95	31116.	63.37	0.040
31126.	60.95	31129.	64.69	0.061
31142.	64.69	31146.	62.14	0.039
31156.	62.14	31160.	59.78	0.038
31177.	60.95	31180.	64.69	0.061
31190.	63.37	31193.	66.02	0.042
31197.	64.69	31200.	62.14	0.039
31211.	62.14	31214.	59.78	0.038
31228.	60.95	31231.	63.37	0.040
31234.	63.37	31237.	66.02	0.042
31237.	66.02	31241.	63.37	0.040
31311.	59.78	31314.	62.14	0.039
31331.	64.69	31334.	62.14	0.039
31344.	63.37	31348.	60.95	0.038
31379.	62.14	31382.	64.69	0.041
31382.	64.69	31385.	62.14	0.039
31392.	62.14	31395.	64.69	0.041
31409.	63.37	31413.	60.95	0.038
31470.	62.14	31473.	64.69	0.041
31483.	63.37	31486.	66.02	0.042
31503.	64.69	31507.	62.14	0.039
31526.	64.69	31530.	62.14	0.039
31540.	62.14	31544.	59.78	0.038
31564.	63.37	31567.	66.02	0.042
31567.	66.02	31571.	63.37	0.040
31580.	64.69	31584.	62.14	0.039
31601.	59.78	31604.	63.37	0.060
31604.	63.37	31609.	59.78	0.057
31609.	59.78	31611.	62.14	0.039
31615.	60.95	31618.	64.69	0.061
31618.	64.69	31622.	62.14	0.039
31625.	60.95	31629.	63.37	0.040
31635.	63.37	31639.	60.95	0.038
31639.	60.95	31642.	63.37	0.040
31655.	63.37	31658.	66.02	0.042
31658.	66.02	31662.	63.37	0.040
31665.	64.69	31668.	67.41	0.042
31668.	67.41	31671.	64.69	0.040
31675.	63.37	31679.	60.95	0.038
31679.	60.95	31682.	63.37	0.040
31685.	64.69	31689.	60.95	0.058
31692.	62.14	31695.	64.69	0.041

31705.	62.14	31709.	64.69	0.041
31711.	66.02	31715.	62.14	0.059
31719.	63.37	31721.	66.02	0.042
31721.	66.02	31725.	63.37	0.040
31798.	64.69	31801.	62.14	0.039
31844.	66.02	31847.	63.37	0.040
31847.	63.37	31851.	66.02	0.042
31854.	66.02	31857.	63.37	0.040
31861.	64.69	31864.	62.14	0.039
31884.	63.37	31887.	66.02	0.042
31887.	66.02	31891.	63.37	0.040
31901.	62.14	31904.	64.69	0.041
31904.	64.69	31908.	60.95	0.058
31908.	60.95	31911.	63.37	0.040
31917.	64.69	31921.	62.14	0.039
31938.	60.95	31941.	64.69	0.061
31941.	64.69	31945.	62.14	0.039
31945.	62.14	31948.	64.69	0.041
31961.	62.14	31964.	66.02	0.062
31964.	66.02	31968.	63.37	0.040
31981.	64.69	31985.	60.95	0.058
31998.	63.37	32002.	60.95	0.038
32002.	60.95	32005.	63.37	0.040
32022.	63.37	32026.	60.95	0.038
32029.	62.14	32032.	64.69	0.041
32032.	64.69	32035.	62.14	0.039
32049.	64.69	32053.	60.95	0.058
32056.	62.14	32059.	64.69	0.041
32059.	64.69	32063.	60.95	0.058
32092.	64.69	32095.	67.41	0.042
32095.	67.41	32098.	64.69	0.040
32137.	66.02	32141.	63.37	0.040
32201.	63.37	32205.	60.95	0.038
32222.	59.78	32225.	62.14	0.039
32228.	63.37	32232.	60.95	0.038
32235.	62.14	32238.	64.69	0.041
32255.	64.69	32259.	62.14	0.039
32348.	64.69	32351.	62.14	0.039
32351.	62.14	32354.	66.02	0.062
32354.	66.02	32358.	63.37	0.040
32371.	64.69	32375.	60.95	0.058
32378.	62.14	32381.	64.69	0.041
32381.	64.69	32385.	60.95	0.058
32392.	60.95	32395.	63.37	0.040
32395.	63.37	32399.	60.95	0.038
32416.	60.95	32419.	64.69	0.061
32419.	64.69	32423.	62.14	0.039
32429.	62.14	32432.	64.69	0.041
32436.	63.37	32439.	60.95	0.038
32457.	60.95	32459.	63.37	0.040
32463.	63.37	32467.	60.95	0.038
32473.	60.95	32477.	63.37	0.040
32477.	63.37	32481.	59.78	0.057
32498.	59.78	32501.	62.14	0.039
32526.	59.78	32529.	62.14	0.039
32529.	62.14	32533.	58.68	0.056
32537.	58.68	32540.	60.95	0.039
32550.	58.68	32554.	60.95	0.039
32631.	59.78	32635.	57.68	0.036
32652.	58.68	32656.	60.95	0.039
32666.	62.14	32670.	59.78	0.038
32687.	60.95	32690.	63.37	0.040
32721.	60.95	32725.	58.68	0.037

32743.	59.78	32746.	62.14	0.039
32822.	59.78	32825.	62.14	0.039
32850.	59.78	32853.	63.37	0.040
32880.	62.14	32884.	59.78	0.038
32884.	59.78	32887.	62.14	0.039
32901.	60.95	32904.	63.37	0.040
32904.	63.37	32907.	60.95	0.038
32921.	63.37	32925.	60.95	0.038
32925.	60.95	32927.	63.37	0.040
32941.	60.95	32945.	63.37	0.040
32945.	63.37	32948.	60.95	0.038
32975.	63.37	32979.	60.95	0.038
32996.	62.14	32999.	64.69	0.041
32999.	64.69	33003.	60.95	0.058
33013.	63.37	33017.	60.95	0.038
33020.	60.95	33023.	63.37	0.040
33033.	62.14	33036.	64.69	0.041
33061.	59.78	33064.	62.14	0.039
33081.	64.69	33084.	62.14	0.039
33154.	59.78	33157.	62.14	0.039
33167.	60.95	33170.	63.37	0.040
33174.	63.37	33177.	60.95	0.038
33181.	60.95	33184.	63.37	0.040
33194.	62.14	33197.	64.69	0.041
33201.	64.69	33204.	62.14	0.039
33215.	62.14	33218.	59.78	0.038
33246.	60.95	33249.	63.37	0.040
33259.	63.37	33262.	66.02	0.042
33279.	63.37	33283.	60.95	0.038
33364.	63.37	33367.	66.02	0.042
33377.	64.69	33380.	67.41	0.042
33383.	66.02	33387.	63.37	0.040
33403.	63.37	33406.	66.02	0.042
33423.	66.02	33426.	63.37	0.040
33436.	66.02	33439.	63.37	0.040
33501.	64.69	33505.	62.14	0.039
33522.	59.78	33525.	62.14	0.039
33525.	62.14	33529.	59.78	0.038
33542.	63.37	33546.	60.95	0.038
33563.	60.95	33566.	63.37	0.040
33608.	60.95	33612.	58.68	0.037
33615.	58.68	33619.	60.95	0.039
33636.	62.14	33640.	59.78	0.038
33643.	59.78	33646.	62.14	0.039
33664.	60.95	33668.	58.68	0.037
33671.	58.68	33675.	60.95	0.039
33699.	58.68	33703.	60.95	0.039
33731.	59.78	33735.	57.63	0.036
33796.	58.68	33799.	60.95	0.039
33840.	60.95	33844.	58.68	0.037
33855.	57.63	33859.	55.59	0.035
33877.	56.57	33880.	59.78	0.057
33898.	59.78	33903.	55.59	0.070
33921.	56.57	33924.	59.78	0.057
33939.	58.68	33943.	56.57	0.036
33968.	59.78	33972.	57.63	0.036
33991.	55.59	33994.	58.68	0.056
34004.	59.78	34007.	62.14	0.039
34011.	62.14	34015.	59.78	0.038
34026.	58.68	34030.	56.57	0.036
34063.	57.63	34066.	59.78	0.037
34080.	60.95	34084.	58.68	0.037
34102.	57.63	34105.	59.78	0.037

34109.	60.95	34113.	58.68	0.037
34158.	58.68	34161.	60.95	0.039
34172.	58.68	34175.	60.95	0.039
34186.	59.78	34189.	62.14	0.039
34189.	62.14	34193.	59.78	0.038
34203.	60.95	34207.	58.68	0.037
34211.	58.68	34214.	62.14	0.059
34261.	62.14	34265.	59.78	0.038
34265.	59.78	34269.	62.14	0.039
34292.	62.14	34295.	64.69	0.041
34295.	64.69	34299.	60.95	0.058
34313.	60.95	34317.	58.68	0.037
34317.	58.68	34320.	62.14	0.059
34344.	60.95	34347.	63.37	0.040
34364.	63.37	34367.	60.95	0.038
34388.	60.95	34391.	63.37	0.040
34401.	63.37	34405.	60.95	0.038
34423.	58.68	34426.	60.95	0.039
34443.	63.37	34447.	60.95	0.038
34460.	62.14	34464.	59.78	0.038
34464.	59.78	34467.	62.14	0.039
34471.	62.14	34475.	59.78	0.038
34481.	60.95	34484.	63.37	0.040
34491.	60.95	34495.	63.37	0.040
34543.	59.78	34546.	62.14	0.039
34563.	62.14	34567.	59.78	0.038
34587.	62.14	34590.	64.69	0.041
34590.	64.69	34594.	62.14	0.039
34594.	62.14	34597.	64.69	0.041
34604.	64.69	34608.	62.14	0.039
34611.	60.95	34614.	64.69	0.061
34614.	64.69	34618.	60.95	0.058
34625.	59.78	34628.	62.14	0.039
34631.	63.37	34635.	59.78	0.057
34635.	59.78	34638.	62.14	0.039
34638.	62.14	34641.	64.69	0.041
34662.	60.95	34665.	63.37	0.040
34668.	64.69	34672.	62.14	0.039
34675.	63.37	34678.	66.02	0.042
34688.	63.37	34691.	66.02	0.042
34691.	66.02	34695.	63.37	0.040
34695.	63.37	34699.	60.95	0.038
34699.	60.95	34701.	63.37	0.040
34734.	66.02	34738.	63.37	0.040
34741.	62.14	34744.	66.02	0.062
34744.	66.02	34748.	63.37	0.040
34754.	63.37	34757.	66.02	0.042
34757.	66.02	34761.	63.37	0.040
34765.	62.14	34767.	66.02	0.062
34771.	64.69	34775.	62.14	0.039
34831.	62.14	34834.	64.69	0.041
34837.	63.37	34841.	60.95	0.038
34841.	60.95	34844.	63.37	0.040
34871.	62.14	34874.	64.69	0.041
34887.	64.69	34892.	60.95	0.058
34908.	60.95	34911.	64.69	0.061
34931.	63.37	34935.	60.95	0.038
34935.	60.95	34938.	63.37	0.040
34941.	64.69	34945.	59.78	0.075
34945.	59.78	34948.	62.14	0.039
34962.	60.95	34965.	66.02	0.083
34975.	64.69	34977.	67.41	0.042
34977.	67.41	34981.	64.69	0.040

35017.	64.69	35021.	62.14	0.039
35025.	60.95	35028.	63.37	0.040
35035.	62.14	35038.	59.78	0.038
35038.	59.78	35041.	63.37	0.060
35058.	64.69	35062.	62.14	0.039
35079.	60.95	35082.	63.37	0.040
35120.	60.95	35123.	63.37	0.040
35123.	63.37	35127.	60.95	0.038
35140.	62.14	35144.	58.68	0.056
35144.	58.68	35147.	60.95	0.039
35154.	59.78	35157.	62.14	0.039
35161.	62.14	35164.	64.69	0.041
35225.	60.95	35228.	63.37	0.040
35228.	63.37	35232.	60.95	0.038
35253.	60.95	35256.	63.37	0.040
35256.	63.37	35260.	60.95	0.038
35349.	63.37	35352.	60.95	0.038
35356.	60.95	35359.	63.37	0.040
35359.	63.37	35363.	60.95	0.038
35376.	62.14	35380.	59.78	0.038
35383.	60.95	35386.	63.37	0.040
35404.	63.37	35407.	60.95	0.038
35411.	59.78	35414.	62.14	0.039
35439.	59.78	35441.	63.37	0.060
35441.	63.37	35445.	60.95	0.038
35469.	62.14	35473.	59.78	0.038
35490.	60.95	35493.	63.37	0.040
35511.	62.14	35515.	59.78	0.038
35524.	62.14	35529.	59.78	0.038
35532.	59.78	35535.	62.14	0.039
35542.	62.14	35545.	59.78	0.038
35545.	59.78	35549.	63.37	0.060
35583.	60.95	35587.	63.37	0.040
35593.	64.69	35597.	62.14	0.039
35597.	62.14	35600.	64.69	0.041
35614.	60.95	35617.	63.37	0.040
35617.	63.37	35621.	60.95	0.038
35621.	60.95	35623.	63.37	0.040
35630.	64.69	35634.	62.14	0.039
35637.	62.14	35640.	64.69	0.041
35640.	64.69	35644.	62.14	0.039
35651.	62.14	35654.	64.69	0.041
35657.	66.02	35661.	62.14	0.059
35661.	62.14	35663.	64.69	0.041
35673.	64.69	35677.	62.14	0.039
35677.	62.14	35680.	64.69	0.041
35680.	64.69	35684.	60.95	0.058
35687.	62.14	35690.	64.69	0.041
35690.	64.69	35694.	62.14	0.039
35736.	66.02	35740.	63.37	0.040
35895.	63.37	35898.	66.02	0.042
35908.	63.37	35911.	66.02	0.042
35911.	66.02	35915.	62.14	0.059
35918.	62.14	35921.	64.69	0.041
35947.	66.02	35951.	63.37	0.040
35971.	63.37	35974.	66.02	0.042
35974.	66.02	35977.	63.37	0.040
35991.	64.69	35995.	60.95	0.058
36011.	60.95	36014.	64.69	0.061
36014.	64.69	36018.	62.14	0.039
36018.	62.14	36021.	64.69	0.041
36049.	60.95	36051.	64.69	0.061
36062.	63.37	36065.	66.02	0.042

36068.	64.69	36072.	62.14	0.039
36082.	62.14	36086.	59.78	0.038
36141.	63.37	36145.	66.02	0.042
36143.	66.02	36147.	63.37	0.040
36167.	64.69	36170.	67.41	0.042
36170.	67.41	36174.	64.69	0.040
36200.	64.69	36204.	62.14	0.039
36221.	60.95	36224.	63.37	0.040
36311.	62.14	36314.	64.69	0.041
36329.	67.41	36334.	62.14	0.078
36347.	60.95	36351.	58.68	0.037
36351.	58.68	36354.	63.37	0.079
36412.	60.95	36415.	63.37	0.040
36418.	64.69	36421.	67.41	0.042
36421.	67.41	36425.	64.69	0.040
36434.	64.69	36438.	62.14	0.039
36455.	60.95	36458.	64.69	0.061
36472.	63.37	36476.	60.95	0.038
36479.	59.78	36482.	62.14	0.039
36493.	59.78	36496.	62.14	0.039
36500.	60.95	36503.	58.68	0.037
36503.	58.68	36506.	62.14	0.059
36510.	62.14	36513.	64.69	0.041
36513.	64.69	36517.	62.14	0.039
36530.	63.37	36533.	60.95	0.038
36533.	60.95	36537.	63.37	0.040
36560.	63.37	36563.	66.02	0.042
36563.	66.02	36567.	63.37	0.040
36580.	64.69	36584.	60.95	0.058
36590.	63.37	36594.	59.78	0.057
36601.	60.95	36604.	63.37	0.040
36604.	63.37	36608.	60.95	0.038
36611.	60.95	36614.	64.69	0.061
36631.	64.69	36634.	62.14	0.039
36689.	66.02	36694.	63.37	0.040
36710.	60.95	36713.	66.02	0.083
36713.	66.02	36716.	68.91	0.044
36732.	66.02	36736.	62.14	0.059
36753.	62.14	36756.	64.69	0.041
36765.	67.41	36767.	70.43	0.045
36783.	68.91	36787.	66.02	0.042
36810.	63.37	36813.	66.02	0.042
36815.	67.41	36818.	70.43	0.045
36825.	68.91	36829.	66.02	0.042
36832.	64.69	36836.	62.14	0.039
36839.	60.95	36842.	63.37	0.040
36858.	66.02	36862.	63.37	0.040
36865.	62.14	36868.	64.69	0.041
36891.	64.69	36894.	67.41	0.042
36910.	64.69	36914.	62.14	0.039
36931.	62.14	36934.	64.69	0.041
36954.	63.37	36957.	66.02	0.042
36967.	64.69	36969.	67.41	0.042
36973.	66.02	36977.	63.37	0.040
36980.	63.37	36983.	66.02	0.042
36986.	64.69	36990.	62.14	0.039
36990.	62.14	36993.	64.69	0.041
36999.	66.02	37003.	63.37	0.040
37003.	63.37	37005.	66.02	0.042
37144.	66.02	37147.	63.37	0.040
37170.	66.02	37173.	68.91	0.044
37176.	67.41	37180.	64.69	0.040
37195.	64.69	37199.	67.41	0.042

37228.	64.69	37231.	62.14	0.039
37234.	63.37	37237.	66.02	0.042
37251.	66.02	37254.	63.37	0.040
37263.	64.69	37268.	62.14	0.039
37271.	62.14	37274.	64.69	0.041
37283.	63.37	37287.	67.41	0.063
37289.	68.91	37293.	66.02	0.042
37293.	66.02	37297.	63.37	0.040
37303.	66.02	37307.	63.37	0.040
37313.	63.37	37316.	66.02	0.042
37316.	66.02	37320.	63.37	0.040
37323.	62.14	37326.	66.02	0.062
37353.	63.37	37357.	60.95	0.038
37377.	62.14	37380.	64.69	0.041
37380.	64.69	37384.	60.95	0.058
37384.	60.95	37387.	63.37	0.040
37393.	64.69	37397.	62.14	0.039
37415.	59.78	37418.	62.14	0.039
37428.	62.14	37431.	66.02	0.062
37447.	64.69	37451.	62.14	0.039
37465.	59.78	37468.	62.14	0.039
37475.	63.37	37479.	60.95	0.038
37485.	62.14	37489.	59.78	0.038
37489.	59.78	37492.	62.14	0.039
37495.	60.95	37499.	63.37	0.040
37499.	63.37	37503.	60.95	0.038
37506.	62.14	37509.	64.69	0.041
37509.	64.69	37512.	62.14	0.039
37519.	62.14	37522.	64.69	0.041
37525.	66.02	37529.	62.14	0.059
37529.	62.14	37532.	64.69	0.041
37542.	64.69	37545.	62.14	0.039
37545.	62.14	37549.	64.69	0.041
37568.	66.02	37571.	63.37	0.040
37571.	63.37	37574.	66.02	0.042
37574.	66.02	37578.	63.37	0.040
37601.	64.69	37605.	62.14	0.039
37641.	64.69	37645.	62.14	0.039
37648.	60.95	37651.	64.69	0.061
37728.	63.37	37731.	60.95	0.038
37741.	60.95	37745.	63.37	0.040
37751.	63.37	37754.	66.02	0.042
37754.	66.02	37758.	63.37	0.040
37771.	64.69	37775.	60.95	0.058
37778.	62.14	37781.	64.69	0.041
37781.	64.69	37785.	62.14	0.039
37791.	62.14	37795.	64.69	0.041
37798.	63.37	37802.	60.95	0.038
37808.	62.14	37811.	64.69	0.041
37811.	64.69	37815.	62.14	0.039
37815.	62.14	37818.	64.69	0.041
37835.	63.37	37839.	60.95	0.038
37856.	60.95	37859.	63.37	0.040
37875.	64.69	37879.	60.95	0.058
37889.	63.37	37893.	60.95	0.038
37896.	60.95	37899.	63.37	0.040
37907.	62.14	37910.	59.78	0.038
37910.	59.78	37913.	63.37	0.060
37930.	63.37	37934.	59.78	0.057
37941.	62.14	37945.	59.78	0.038
37951.	60.95	37954.	63.37	0.040
37961.	62.14	37964.	64.69	0.041
37967.	64.69	37971.	62.14	0.039

37981.	62.14	37985.	59.78	0.038
37995.	60.95	37999.	58.68	0.037
38003.	59.78	38006.	62.14	0.039
38023.	62.14	38027.	59.78	0.038
38058.	59.78	38061.	62.14	0.039
38144.	62.14	38148.	59.78	0.038
38151.	59.78	38155.	62.14	0.039
38165.	60.95	38168.	63.37	0.040
38168.	63.37	38172.	60.95	0.038
38182.	62.14	38186.	59.78	0.038
38190.	58.68	38193.	60.95	0.039
38196.	62.14	38200.	59.78	0.038
38204.	58.68	38207.	60.95	0.039
38210.	62.14	38214.	59.78	0.038
38224.	62.14	38228.	59.78	0.038
38231.	59.78	38235.	62.14	0.039
38235.	62.14	38239.	59.78	0.038
38246.	58.68	38249.	60.95	0.039
38256.	58.68	38259.	60.95	0.039
38267.	60.95	38271.	58.68	0.037
38288.	58.68	38291.	60.95	0.039
38291.	60.95	38295.	58.68	0.037
38313.	59.78	38316.	62.14	0.039
38333.	60.95	38337.	58.68	0.037
38341.	58.68	38344.	60.95	0.039
38389.	62.14	38393.	59.78	0.038
38403.	60.95	38407.	58.68	0.037
38410.	59.78	38413.	62.14	0.039
38413.	62.14	38417.	59.78	0.038
38441.	60.95	38445.	58.68	0.037
38462.	59.78	38465.	62.14	0.039
38483.	62.14	38487.	59.78	0.038
38490.	59.78	38493.	62.14	0.039
38497.	62.14	38501.	59.78	0.038
38504.	59.78	38507.	62.14	0.039
38562.	60.95	38566.	58.68	0.037
38594.	60.95	38598.	58.68	0.037
38615.	58.68	38619.	60.95	0.039
38679.	59.78	38682.	62.14	0.039
38699.	62.14	38703.	59.78	0.038
38706.	59.78	38709.	62.14	0.039
38754.	62.14	38758.	59.78	0.038
38775.	60.95	38778.	63.37	0.040
38778.	63.37	38782.	60.95	0.038
38799.	59.78	38802.	63.37	0.060
38809.	62.14	38812.	64.69	0.041
38819.	66.02	38822.	63.37	0.040
38829.	63.37	38833.	60.95	0.038
38836.	60.95	38840.	58.68	0.037
38857.	60.95	38860.	63.37	0.040
38860.	63.37	38864.	60.95	0.038
38873.	63.37	38878.	60.95	0.038
38881.	60.95	38884.	63.37	0.040
38884.	63.37	38888.	60.95	0.038
38891.	62.14	38895.	59.78	0.038
38895.	59.78	38897.	64.69	0.082
38897.	64.69	38901.	62.14	0.039
38915.	63.37	38918.	60.95	0.038
38918.	60.95	38921.	64.69	0.061
38938.	63.37	38942.	59.78	0.057
38959.	59.78	38963.	62.14	0.039
38966.	62.14	38970.	59.78	0.038
38987.	59.78	38990.	62.14	0.039

38994.	60.95	38998.	58.68	0.037
39032.	62.14	39036.	59.78	0.038
39039.	60.95	39043.	63.37	0.040
39046.	62.14	39050.	59.78	0.038
39060.	60.95	39064.	58.68	0.037
39067.	59.78	39070.	63.37	0.060
39081.	60.95	39084.	63.37	0.040
39088.	62.14	39091.	59.78	0.038
39148.	58.68	39151.	60.95	0.039
39235.	60.95	39239.	58.68	0.037
39246.	58.68	39249.	60.95	0.039
39257.	58.68	39260.	60.95	0.039
39263.	62.14	39267.	59.78	0.038
39271.	58.68	39274.	60.95	0.039
39277.	62.14	39281.	59.78	0.038
39285.	58.68	39288.	60.95	0.039
39367.	59.78	39371.	62.14	0.039
39440.	63.37	39444.	60.95	0.038
39478.	63.37	39482.	60.95	0.038
39499.	59.78	39502.	62.14	0.039
39505.	62.14	39509.	59.78	0.038
39527.	58.68	39530.	62.14	0.059
39544.	62.14	39547.	64.69	0.041
39547.	64.69	39551.	60.95	0.058
39564.	62.14	39568.	59.78	0.038
39568.	59.78	39571.	62.14	0.039
39598.	62.14	39602.	59.78	0.038
39619.	59.78	39623.	62.14	0.039
39636.	62.14	39639.	64.69	0.041
39639.	64.69	39643.	62.14	0.039
39667.	62.14	39671.	59.78	0.038
39694.	62.14	39698.	59.78	0.038
39702.	59.78	39705.	62.14	0.039
39705.	62.14	39709.	59.78	0.038
39802.	60.95	39806.	58.68	0.037
39809.	58.68	39812.	60.95	0.039
39840.	60.95	39844.	58.68	0.037
39882.	62.14	39886.	59.78	0.038
39896.	60.95	39901.	57.63	0.055
39904.	56.57	39907.	59.78	0.057
39911.	60.95	39915.	58.68	0.037
39918.	57.63	39921.	60.95	0.058
39932.	59.78	39935.	62.14	0.039
39999.	58.68	40002.	60.95	0.039
40019.	60.95	40023.	58.68	0.037
40033.	60.95	40037.	58.68	0.037
40041.	59.78	40044.	62.14	0.039
40055.	59.78	40058.	62.14	0.039
40058.	62.14	40062.	59.78	0.038
40100.	62.14	40104.	59.78	0.038
40114.	60.95	40118.	58.68	0.037
40121.	58.68	40125.	60.95	0.039
40135.	59.78	40138.	62.14	0.039
40257.	59.78	40260.	62.14	0.039
40325.	62.14	40328.	64.69	0.041
40328.	64.69	40331.	62.14	0.039
40345.	63.37	40349.	59.78	0.057
40355.	60.95	40359.	58.68	0.037
40366.	59.78	40369.	62.14	0.039
40369.	62.14	40373.	59.78	0.038
40390.	60.95	40393.	63.37	0.040
40407.	63.37	40411.	60.95	0.038
40414.	62.14	40417.	59.78	0.038

40417.	59.78	40420.	62.14	0.039
40427.	60.95	40431.	64.69	0.061
40440.	63.37	40443.	66.02	0.042
40451.	63.37	40454.	60.95	0.038
40468.	59.78	40471.	62.14	0.039
40482.	59.78	40485.	62.14	0.039
40488.	63.37	40492.	60.95	0.038
40492.	60.95	40495.	63.37	0.040
40498.	63.37	40501.	66.02	0.042
40501.	66.02	40505.	63.37	0.040
40515.	64.69	40519.	62.14	0.039
40602.	60.95	40605.	63.37	0.040
40621.	66.02	40625.	63.37	0.040
40635.	63.37	40639.	60.95	0.038
40673.	63.37	40677.	60.95	0.038
40694.	59.78	40697.	63.37	0.060
40697.	63.37	40701.	60.95	0.038
40714.	62.14	40718.	59.78	0.038
40749.	60.95	40752.	63.37	0.040
40766.	62.14	40770.	59.78	0.038
40794.	60.95	40798.	58.68	0.037
40857.	58.68	40861.	60.95	0.039
40889.	60.95	40893.	58.68	0.037
40896.	58.68	40899.	60.95	0.039
40917.	60.95	40921.	58.68	0.037
40924.	58.68	40927.	60.95	0.039
40945.	62.14	40949.	59.78	0.038
40966.	59.78	40969.	62.14	0.039
40987.	59.78	40991.	57.63	0.036
41009.	58.68	41012.	60.95	0.039
41012.	60.95	41016.	58.68	0.037
41019.	58.68	41023.	60.95	0.039
41040.	60.95	41044.	58.68	0.037
41097.	60.95	41101.	58.68	0.037
41135.	60.95	41139.	58.68	0.037
41171.	58.68	41174.	60.95	0.039
41191.	62.14	41195.	59.78	0.038
41205.	60.95	41209.	58.68	0.037
41213.	58.68	41216.	60.95	0.039
41258.	59.78	41262.	57.63	0.036
41266.	58.68	41269.	60.95	0.039
41272.	60.95	41277.	58.68	0.037
41280.	57.63	41283.	59.78	0.037
41294.	58.68	41297.	60.95	0.039
41301.	62.14	41305.	59.78	0.038
41322.	58.68	41325.	60.95	0.039
41343.	62.14	41347.	59.78	0.038
41353.	60.95	41357.	58.68	0.037
41375.	59.78	41378.	62.14	0.039
41395.	63.37	41399.	60.95	0.038
41412.	60.95	41416.	58.68	0.037
41423.	59.78	41427.	57.63	0.036
41473.	58.68	41476.	60.95	0.039
41526.	59.78	41529.	62.14	0.039
41547.	59.78	41551.	57.63	0.036
41569.	58.68	41572.	60.95	0.039
41589.	62.14	41593.	59.78	0.038
41600.	58.68	41604.	56.57	0.036
41666.	58.68	41669.	60.95	0.039
41687.	62.14	41691.	59.78	0.038
41701.	57.63	41706.	55.59	0.035
41724.	56.57	41727.	59.78	0.057
41745.	58.68	41749.	56.57	0.036

41764.	56.57	41767.	58.68	0.037
41786.	57.63	41790.	55.59	0.035
41793.	56.57	41796.	58.68	0.037
41815.	58.68	41819.	56.57	0.036
41822.	56.57	41825.	58.68	0.037
41825.	58.68	41828.	60.95	0.039
41839.	60.95	41844.	56.57	0.071
41862.	55.59	41866.	58.68	0.056
41869.	58.68	41874.	56.57	0.036
41892.	56.57	41895.	59.78	0.057
41913.	60.95	41917.	58.68	0.037
41924.	56.57	41929.	54.64	0.034
41936.	54.64	41939.	56.57	0.035
41946.	58.68	41949.	62.14	0.059
41949.	62.14	41952.	64.69	0.041
41966.	62.14	41970.	59.78	0.038
42018.	57.63	42021.	59.78	0.037
42037.	64.69	42041.	62.14	0.039
42052.	59.78	42056.	57.63	0.036
42107.	58.68	42111.	56.57	0.036
42125.	56.57	42129.	58.68	0.037
42129.	58.68	42132.	60.95	0.039
42149.	60.95	42153.	58.68	0.037
42157.	58.68	42160.	60.95	0.039
42177.	63.37	42181.	60.95	0.038
42251.	59.78	42254.	62.14	0.039
42279.	58.68	42282.	60.95	0.039
42300.	59.78	42304.	57.63	0.036
42367.	59.78	42371.	57.63	0.036
42417.	57.63	42421.	59.78	0.037
42431.	58.68	42435.	60.95	0.039
42498.	59.78	42501.	62.14	0.039
42526.	58.68	42529.	60.95	0.039
42547.	60.95	42551.	58.68	0.037
42585.	62.14	42589.	59.78	0.038
42624.	62.14	42628.	59.78	0.038
42642.	59.78	42646.	57.63	0.036
42646.	57.63	42649.	59.78	0.037
42656.	62.14	42660.	59.78	0.038
42663.	59.78	42666.	62.14	0.039
42666.	62.14	42670.	59.78	0.038
42677.	58.68	42681.	60.95	0.039
42688.	58.68	42691.	60.95	0.039
42743.	58.68	42746.	62.14	0.059
42750.	60.95	42753.	63.37	0.040
42753.	63.37	42757.	60.95	0.038
42757.	60.95	42760.	63.37	0.040
42763.	64.69	42767.	62.14	0.039
42773.	62.14	42777.	64.69	0.041
42777.	64.69	42781.	60.95	0.058
42811.	60.95	42814.	64.69	0.061
42814.	64.69	42818.	62.14	0.039
42831.	63.37	42835.	60.95	0.038
42835.	60.95	42838.	63.37	0.040
42888.	63.37	42891.	67.41	0.063
42895.	66.02	42898.	63.37	0.040
42908.	64.69	42911.	62.14	0.039
42911.	62.14	42914.	64.69	0.041
42917.	66.02	42921.	62.14	0.059
42925.	62.14	42927.	64.69	0.041
42927.	64.69	42930.	67.41	0.042
42930.	67.41	42934.	64.69	0.040
42937.	63.37	42941.	66.02	0.042

42999.	66.02	43002.	63.37	0.040
43012.	64.69	43016.	62.14	0.039
43019.	62.14	43022.	64.69	0.041
43022.	64.69	43026.	62.14	0.039
43042.	63.37	43045.	67.41	0.063
43045.	67.41	43049.	64.69	0.040
43052.	63.37	43055.	66.02	0.042
43191.	63.37	43195.	60.95	0.038
43195.	60.95	43198.	63.37	0.040
43201.	64.69	43205.	60.95	0.058
43215.	63.37	43219.	60.95	0.038
43222.	59.78	43225.	62.14	0.039
43235.	62.14	43238.	66.02	0.062
43248.	63.37	43251.	66.02	0.042
43298.	63.37	43301.	66.02	0.042
43311.	63.37	43315.	66.02	0.042
43321.	63.37	43325.	60.95	0.038
43325.	60.95	43328.	63.37	0.040
43339.	59.78	43342.	62.14	0.039
43359.	64.69	43362.	62.14	0.039
43396.	63.37	43400.	60.95	0.038
43416.	62.14	43419.	66.02	0.062
43433.	63.37	43436.	66.02	0.042
43436.	66.02	43440.	62.14	0.059
43464.	62.14	43468.	59.78	0.038
43478.	59.78	43483.	57.63	0.036
43500.	58.68	43503.	62.14	0.059
43503.	62.14	43507.	59.78	0.038
43521.	60.95	43525.	58.68	0.037
43525.	58.68	43528.	60.95	0.039
43531.	60.95	43535.	58.68	0.037
43535.	58.68	43538.	60.95	0.039
43541.	60.95	43545.	63.37	0.040
43552.	60.95	43555.	63.37	0.040
43555.	63.37	43559.	60.95	0.038
43573.	60.95	43577.	58.68	0.037
43577.	58.68	43580.	60.95	0.039
43593.	60.95	43597.	63.37	0.040
43632.	59.78	43635.	62.14	0.039
43635.	62.14	43639.	59.78	0.038
43676.	63.37	43679.	66.02	0.042
43679.	66.02	43683.	63.37	0.040
43692.	66.02	43696.	63.37	0.040
43713.	60.95	43716.	64.69	0.061
43716.	64.69	43720.	62.14	0.039
43737.	60.95	43739.	64.69	0.061
43757.	63.37	43760.	60.95	0.038
43760.	60.95	43763.	63.37	0.040
43767.	62.14	43770.	64.69	0.041
43770.	64.69	43774.	62.14	0.039
43873.	63.37	43876.	66.02	0.042
43876.	66.02	43880.	63.37	0.040
43890.	64.69	43894.	62.14	0.039
43897.	60.95	43900.	64.69	0.061
43900.	64.69	43903.	62.14	0.039
43910.	62.14	43913.	64.69	0.041
43916.	66.02	43921.	60.95	0.076
43921.	60.95	43923.	63.37	0.040
43933.	63.37	43937.	60.95	0.038
43937.	60.95	43940.	64.69	0.061
43963.	62.14	43967.	64.69	0.041
44003.	64.69	44005.	67.41	0.042
44005.	67.41	44009.	64.69	0.040

44013.	63.37	44015.	66.02	0.042
44019.	66.02	44023.	63.37	0.040
44026.	62.14	44029.	66.02	0.062
44032.	64.69	44036.	62.14	0.039
44075.	63.37	44079.	60.95	0.038
44079.	60.95	44082.	63.37	0.040
44109.	64.69	44113.	62.14	0.039
44116.	60.95	44119.	64.69	0.061
44129.	63.37	44131.	67.41	0.063
44135.	66.02	44139.	63.37	0.040
44149.	62.14	44153.	59.78	0.038
44170.	59.78	44173.	62.14	0.039
44190.	63.37	44194.	60.95	0.038
44194.	60.95	44197.	63.37	0.040
44200.	63.37	44204.	60.95	0.038
44221.	60.95	44224.	63.37	0.040
44241.	62.14	44245.	59.78	0.038
44249.	59.78	44252.	62.14	0.039
44269.	62.14	44273.	59.78	0.038
44317.	57.63	44320.	59.78	0.037
44351.	60.95	44355.	58.68	0.037
44355.	58.68	44359.	55.59	0.053
44377.	55.59	44381.	57.63	0.037
44457.	59.78	44460.	62.14	0.039
44527.	58.68	44531.	60.95	0.039
44555.	59.78	44559.	62.14	0.039
44559.	62.14	44563.	58.68	0.056
44573.	59.78	44577.	57.63	0.036
44581.	56.57	44584.	59.78	0.057
44595.	59.78	44598.	62.14	0.039
44601.	62.14	44605.	59.78	0.038
44609.	59.78	44612.	62.14	0.039
44723.	60.95	44727.	58.68	0.037
44744.	59.78	44747.	62.14	0.039
44757.	59.78	44761.	62.14	0.039
44802.	62.14	44806.	59.78	0.038
44823.	59.78	44826.	62.14	0.039
44843.	62.14	44847.	59.78	0.038
44865.	59.78	44868.	62.14	0.039
44885.	60.95	44889.	58.68	0.037
44907.	59.78	44910.	62.14	0.039
44910.	62.14	44914.	59.78	0.038
44967.	59.78	44971.	57.63	0.036
44974.	58.68	44977.	60.95	0.039
44981.	60.95	44985.	58.68	0.037
44988.	58.68	44991.	60.95	0.039
44995.	60.95	44999.	58.68	0.037
45010.	58.68	45014.	56.57	0.036
45017.	56.57	45021.	58.68	0.037
45024.	57.63	45027.	59.78	0.037
45031.	59.78	45034.	62.14	0.039
45076.	60.95	45080.	58.68	0.037
45098.	58.68	45101.	60.95	0.039
45119.	59.78	45123.	57.63	0.036
45151.	59.78	45155.	62.14	0.039
45179.	59.78	45183.	62.14	0.039
45201.	59.78	45205.	57.63	0.036
45215.	59.78	45219.	57.63	0.036
45251.	58.68	45254.	60.95	0.039
45269.	60.95	45273.	58.68	0.037
45375.	59.78	45379.	62.14	0.039
45394.	58.68	45398.	56.57	0.036
45401.	55.59	45405.	57.63	0.037

45423.	58.68	45427.	56.57	0.036
45431.	55.59	45434.	57.63	0.037
45434.	57.63	45437.	59.78	0.037
45451.	62.14	45455.	59.78	0.038
45480.	58.68	45484.	56.57	0.036
45488.	56.57	45491.	58.68	0.037
45516.	57.63	45519.	59.78	0.037
45519.	59.78	45523.	57.63	0.036
45541.	57.63	45545.	59.78	0.037
45563.	58.68	45567.	56.57	0.036
45581.	57.63	45584.	59.78	0.037
45641.	58.68	45644.	60.95	0.039
45673.	59.78	45677.	57.63	0.036
45680.	56.57	45683.	58.68	0.037
45701.	60.95	45705.	58.68	0.037
45768.	62.14	45772.	59.78	0.038
45775.	59.78	45779.	62.14	0.039
45796.	60.95	45800.	58.68	0.037
45817.	59.78	45821.	62.14	0.039
45838.	62.14	45842.	59.78	0.038
45852.	60.95	45856.	58.68	0.037
45859.	58.68	45863.	60.95	0.039
45873.	59.78	45876.	62.14	0.039
45974.	60.95	45978.	58.68	0.037
45995.	58.68	45999.	60.95	0.039
46090.	59.78	46093.	62.14	0.039
46107.	62.14	46111.	59.78	0.038
46129.	58.68	46132.	60.95	0.039
46135.	62.14	46139.	59.78	0.038
46143.	58.68	46146.	60.95	0.039
46149.	62.14	46153.	58.68	0.056
46157.	57.63	46160.	59.78	0.037
46163.	60.95	46167.	58.68	0.037
46171.	57.63	46174.	60.95	0.058
46177.	62.14	46181.	59.78	0.038
46185.	58.68	46188.	60.95	0.039
46191.	62.14	46195.	59.78	0.038
46206.	60.95	46210.	58.68	0.037
46213.	58.68	46216.	60.95	0.039
46227.	59.78	46230.	62.14	0.039
46230.	62.14	46234.	59.78	0.038
46237.	59.78	46241.	62.14	0.039
46258.	62.14	46262.	59.78	0.038
46279.	59.78	46282.	62.14	0.039
46299.	62.14	46303.	59.78	0.038
46321.	59.78	46324.	62.14	0.039
46364.	64.69	46368.	62.14	0.039
46383.	66.02	46386.	68.91	0.044
46386.	68.91	46390.	66.02	0.042
46403.	63.37	46407.	60.95	0.038
46417.	62.14	46421.	59.78	0.038
46428.	60.95	46431.	63.37	0.040
46431.	63.37	46435.	60.95	0.038
46435.	60.95	46437.	63.37	0.040
46441.	63.37	46444.	66.02	0.042
46444.	66.02	46448.	63.37	0.040
46455.	63.37	46458.	60.95	0.038
46465.	59.78	46468.	63.37	0.060
46471.	62.14	46474.	64.69	0.041
46477.	66.02	46480.	68.91	0.044
46480.	68.91	46484.	66.02	0.042
46497.	63.37	46501.	60.95	0.038
46501.	60.95	46504.	63.37	0.040

46518.	60.95	46521.	63.37	0.040
46521.	63.37	46525.	59.78	0.057
46543.	57.63	46546.	60.95	0.058
46550.	60.95	46554.	58.68	0.037
46564.	60.95	46568.	58.68	0.037
46643.	60.95	46647.	58.68	0.037
46657.	59.78	46662.	57.63	0.036
46665.	57.63	46669.	59.78	0.037
46679.	58.68	46682.	62.14	0.059
46703.	60.95	46706.	63.37	0.040
46751.	62.14	46755.	59.78	0.038
46758.	59.78	46761.	62.14	0.039
46813.	59.78	46817.	62.14	0.039
46831.	62.14	46835.	59.78	0.038
46838.	59.78	46841.	62.14	0.039
46851.	60.95	46855.	63.37	0.040
46872.	62.14	46876.	59.78	0.038
46924.	62.14	46928.	59.78	0.038
46939.	60.95	46943.	58.68	0.037
46946.	58.68	46949.	60.95	0.039
46953.	60.95	46957.	58.68	0.037
46967.	59.78	46971.	57.63	0.036
46975.	57.63	46978.	59.78	0.037
46996.	59.78	47000.	57.63	0.036
47031.	59.78	47035.	62.14	0.039
47049.	60.95	47053.	58.68	0.037
47078.	59.78	47082.	57.63	0.036
47085.	57.63	47089.	59.78	0.037
47100.	57.63	47103.	59.78	0.037
47120.	63.37	47124.	60.95	0.038
47142.	57.63	47145.	59.78	0.037
47156.	58.68	47159.	60.95	0.039
47180.	60.95	47183.	63.37	0.040
47187.	62.14	47191.	59.78	0.038
47201.	60.95	47205.	58.68	0.037
47208.	59.78	47211.	62.14	0.039
47221.	60.95	47225.	63.37	0.040
47276.	62.14	47279.	66.02	0.062
47279.	66.02	47282.	63.37	0.040
47306.	62.14	47310.	59.78	0.038
47334.	62.14	47338.	59.78	0.038
47338.	59.78	47341.	62.14	0.039
47355.	60.95	47358.	63.37	0.040
47358.	63.37	47361.	60.95	0.038
47375.	62.14	47379.	59.78	0.038
47389.	62.14	47393.	59.78	0.038
47396.	59.78	47399.	62.14	0.039
47406.	62.14	47410.	59.78	0.038
47410.	59.78	47413.	63.37	0.060
47413.	63.37	47417.	60.95	0.038
47461.	62.14	47464.	66.02	0.062
47481.	63.37	47485.	60.95	0.038
47485.	60.95	47488.	63.37	0.040
47495.	63.37	47499.	60.95	0.038
47502.	62.14	47505.	64.69	0.041
47505.	64.69	47508.	62.14	0.039
47515.	60.95	47519.	63.37	0.040
47522.	63.37	47525.	60.95	0.038
47542.	62.14	47545.	64.69	0.041
47545.	64.69	47549.	62.14	0.039
47549.	62.14	47552.	64.69	0.041
47562.	63.37	47566.	60.95	0.038
47566.	60.95	47569.	63.37	0.040

47569.	63.37	47573.	60.95	0.038
47586.	63.37	47590.	60.95	0.038
47590.	60.95	47593.	63.37	0.040
47599.	63.37	47603.	60.95	0.038
47621.	59.78	47624.	62.14	0.039
47624.	62.14	47628.	59.78	0.038
47645.	59.78	47648.	62.14	0.039
47652.	62.14	47656.	59.78	0.038
47666.	60.95	47670.	58.68	0.037
47673.	58.68	47677.	60.95	0.039
47667.	58.68	47691.	60.95	0.039
47694.	60.95	47698.	58.68	0.037
47722.	60.95	47727.	58.68	0.037
47744.	58.68	47747.	60.95	0.039
47775.	60.95	47779.	58.68	0.037
47797.	58.68	47800.	60.95	0.039
47824.	59.78	47827.	62.14	0.039
47863.	60.95	47887.	58.68	0.037
47891.	58.68	47894.	60.95	0.039
47905.	58.68	47908.	60.95	0.039
47951.	58.68	47954.	60.95	0.039
48090.	60.95	48094.	58.68	0.037
48111.	60.95	48114.	63.37	0.040
48114.	63.37	48118.	60.95	0.038
48128.	62.14	48132.	59.78	0.038
48143.	59.78	48147.	57.63	0.036
48150.	57.63	48153.	59.78	0.037
48164.	58.68	48167.	60.95	0.039
48171.	62.14	48175.	59.78	0.038
48178.	58.68	48181.	60.95	0.039
48185.	62.14	48189.	59.78	0.038
48192.	58.68	48195.	60.95	0.039
48199.	62.14	48203.	59.78	0.038
48206.	58.68	48209.	60.95	0.039
48213.	62.14	48217.	59.78	0.038
48220.	58.68	48223.	60.95	0.039
48245.	58.68	48248.	60.95	0.039
48265.	62.14	48269.	59.78	0.038
48322.	60.95	48326.	58.68	0.037
48337.	59.78	48341.	57.63	0.036
48344.	58.68	48347.	60.95	0.039
48357.	60.95	48361.	63.37	0.040
48361.	63.37	48365.	59.78	0.057
48365.	59.78	48369.	57.63	0.036
48384.	54.64	48387.	57.63	0.055
48387.	57.63	48390.	59.78	0.037
48404.	62.14	48408.	59.78	0.038
48426.	57.63	48429.	59.78	0.037
48439.	60.95	48443.	63.37	0.040
48446.	64.69	48450.	62.14	0.039
48460.	62.14	48464.	59.78	0.038
48481.	58.68	48485.	60.95	0.039
48485.	60.95	48489.	57.63	0.055
48507.	55.59	48511.	58.68	0.056
48521.	59.78	48524.	62.14	0.039
48542.	60.95	48546.	58.68	0.037
48609.	62.14	48613.	59.78	0.038
48624.	58.68	48628.	56.57	0.036
48632.	55.59	48635.	57.63	0.037
48635.	57.63	48638.	59.78	0.037
48660.	58.68	48663.	60.95	0.039
48663.	60.95	48667.	58.68	0.037
48681.	59.78	48685.	57.63	0.036

48695.	60.95	48699.	58.68	0.037
48734.	60.95	48738.	58.68	0.037
48755.	60.95	48758.	63.37	0.040
48768.	62.14	48771.	64.69	0.041
48775.	64.69	48779.	62.14	0.039
48789.	62.14	48793.	59.78	0.038
48824.	59.78	48827.	63.37	0.060
48827.	63.37	48831.	60.95	0.038
48844.	63.37	48847.	60.95	0.038
48847.	60.95	48851.	63.37	0.040
48853.	64.69	48857.	60.95	0.058
48871.	63.37	48874.	60.95	0.038
48874.	60.95	48877.	63.37	0.040
48897.	64.69	48901.	62.14	0.039
48901.	62.14	48904.	64.69	0.041
48970.	64.69	48973.	62.14	0.039
48977.	63.37	48979.	66.02	0.042
48979.	66.02	48983.	63.37	0.040
48996.	64.69	49000.	60.95	0.058
49000.	60.95	49003.	63.37	0.040
49017.	62.14	49019.	66.02	0.062
49019.	66.02	49023.	62.14	0.059
49030.	62.14	49033.	64.69	0.041
49064.	62.14	49067.	59.78	0.038
49067.	59.78	49071.	62.14	0.039
49071.	62.14	49074.	59.78	0.038
49078.	60.95	49081.	58.68	0.037
49088.	60.95	49092.	58.68	0.037
49157.	62.14	49161.	59.78	0.038
49182.	62.14	49186.	59.78	0.038
49196.	60.95	49200.	58.68	0.037
49203.	59.78	49206.	62.14	0.039
49258.	59.78	49261.	63.37	0.060
49278.	64.69	49281.	62.14	0.039
49298.	63.37	49301.	66.02	0.042
49301.	66.02	49305.	62.14	0.059
49315.	63.37	49319.	60.95	0.038
49322.	59.78	49325.	63.37	0.060
49335.	62.14	49339.	64.69	0.041
49341.	66.02	49345.	63.37	0.040
49359.	62.14	49363.	59.78	0.038
49363.	59.78	49366.	62.14	0.039
49376.	62.14	49379.	64.69	0.041
49386.	63.37	49389.	60.95	0.038
49389.	60.95	49393.	63.37	0.040
49395.	64.69	49399.	60.95	0.058
49413.	63.37	49416.	60.95	0.038
49416.	60.95	49419.	63.37	0.040
49426.	62.14	49429.	66.02	0.062
49429.	66.02	49433.	63.37	0.040
49439.	63.37	49442.	66.02	0.042
49446.	64.69	49449.	62.14	0.039
49460.	62.14	49463.	59.78	0.038
49508.	59.78	49511.	62.14	0.039
49528.	62.14	49532.	59.78	0.038
49532.	59.78	49535.	63.37	0.060
49552.	63.37	49555.	60.95	0.038
49576.	60.95	49579.	63.37	0.040
49606.	62.14	49610.	59.78	0.038
49645.	62.14	49649.	59.78	0.038
49665.	60.95	49669.	63.37	0.040
49686.	62.14	49690.	59.78	0.038
49690.	59.78	49693.	62.14	0.039

49706.	62.14	49709.	64.69	0.041
49771.	62.14	49774.	64.69	0.041
49791.	63.37	49795.	60.95	0.038
49801.	62.14	49804.	64.69	0.041
49804.	64.69	49808.	62.14	0.039
49825.	60.95	49827.	64.69	0.061
49844.	64.69	49848.	60.95	0.058
49861.	63.37	49865.	60.95	0.038
49865.	60.95	49868.	64.69	0.061
49868.	64.69	49872.	62.14	0.039
49884.	66.02	49888.	63.37	0.040
49888.	63.37	49891.	66.02	0.042
49895.	64.69	49898.	62.14	0.039
49912.	60.95	49915.	63.37	0.040
49919.	62.14	49921.	64.69	0.041
49955.	62.14	49958.	66.02	0.062
49968.	64.69	49971.	67.41	0.042
49971.	67.41	49975.	64.69	0.040
50018.	62.14	50021.	64.69	0.041
50021.	64.69	50025.	62.14	0.039
50029.	62.14	50032.	59.78	0.038
50032.	59.78	50035.	62.14	0.039
50065.	64.69	50069.	62.14	0.039
50083.	62.14	50086.	59.78	0.038
50086.	59.78	50089.	62.14	0.039
50097.	59.78	50099.	62.14	0.039
50117.	62.14	50121.	59.78	0.038
50158.	62.14	50162.	59.78	0.038
50179.	59.78	50183.	62.14	0.039
50193.	60.95	50196.	63.37	0.040
50334.	60.95	50338.	58.68	0.037
50344.	60.95	50348.	58.68	0.037
50372.	60.95	50376.	58.68	0.037
50407.	62.14	50409.	64.69	0.041
50426.	64.69	50430.	62.14	0.039
50437.	62.14	50441.	59.78	0.038
50465.	60.95	50469.	58.68	0.037
50472.	58.68	50475.	60.95	0.039
50486.	59.78	50489.	62.14	0.039
50534.	62.14	50538.	59.78	0.038
50548.	62.14	50552.	59.78	0.038
50555.	59.78	50559.	62.14	0.039
50569.	59.78	50573.	62.14	0.039
50573.	62.14	50577.	59.78	0.038
50580.	59.78	50583.	62.14	0.039
50587.	62.14	50591.	59.78	0.038
50594.	59.78	50597.	62.14	0.039
50698.	60.95	50702.	58.68	0.037
50719.	59.78	50723.	62.14	0.039
50857.	62.14	50861.	59.78	0.038
50871.	60.95	50875.	58.68	0.037
50879.	59.78	50882.	62.14	0.039
50885.	62.14	50889.	59.78	0.038
50892.	60.95	50895.	63.37	0.040
50899.	62.14	50903.	59.78	0.038
50907.	58.68	50910.	60.95	0.039
50910.	60.95	50914.	58.68	0.037
50921.	58.68	50924.	60.95	0.039
50973.	60.95	50976.	63.37	0.040
50993.	60.95	50997.	58.68	0.037
51015.	58.68	51018.	60.95	0.039
51054.	59.78	51057.	62.14	0.039
51101.	62.14	51105.	59.78	0.038

51109.	59.78	51112.	62.14	0.039
51122.	60.95	51125.	63.37	0.040
51129.	62.14	51133.	59.78	0.038
51144.	58.68	51148.	56.57	0.036
51151.	57.63	51154.	59.78	0.037
51158.	58.68	51161.	60.95	0.039
51165.	60.95	51168.	63.37	0.040
51168.	63.37	51172.	59.78	0.057
51190.	56.57	51193.	59.78	0.057
51211.	62.14	51215.	59.78	0.038
51232.	58.68	51235.	60.95	0.039
51253.	62.14	51257.	59.78	0.038
51278.	58.68	51282.	56.57	0.036
51289.	57.63	51292.	59.78	0.037
51299.	60.95	51302.	63.37	0.040
51306.	63.37	51310.	60.95	0.038
51317.	60.95	51321.	58.68	0.037
51321.	58.68	51325.	56.57	0.036
51335.	57.63	51339.	55.59	0.035
51343.	56.57	51346.	58.68	0.037
51356.	60.95	51359.	63.37	0.040
51363.	63.37	51367.	60.95	0.038
51378.	58.68	51382.	56.57	0.036
51403.	58.68	51407.	56.57	0.036
51440.	57.63	51443.	59.78	0.037
51461.	60.95	51465.	57.63	0.055
51483.	56.57	51487.	58.68	0.037
51512.	58.68	51515.	60.95	0.039
51529.	62.14	51533.	59.78	0.038
51565.	58.68	51569.	60.95	0.039
51586.	60.95	51590.	58.68	0.037
51653.	59.78	51657.	57.63	0.036
51661.	58.68	51664.	60.95	0.039
51667.	60.95	51671.	58.68	0.037
51717.	57.63	51721.	59.78	0.037
51738.	60.95	51742.	58.68	0.037
51746.	58.68	51749.	60.95	0.039
51760.	58.68	51763.	60.95	0.039
51805.	62.14	51809.	59.78	0.038
51819.	60.95	51823.	58.68	0.037
51826.	58.68	51829.	60.95	0.039
51833.	60.95	51837.	58.68	0.037
51840.	58.68	51843.	60.95	0.039
51847.	62.14	51851.	59.78	0.038
51854.	58.68	51857.	60.95	0.039
51861.	62.14	51865.	59.78	0.038
51868.	58.68	51871.	60.95	0.039
51931.	60.95	51935.	58.68	0.037
51953.	59.78	51956.	62.14	0.039
52078.	62.14	52082.	59.78	0.038
52092.	60.95	52096.	58.68	0.037
52100.	58.68	52103.	60.95	0.039
52159.	62.14	52163.	59.78	0.038
52215.	60.95	52219.	58.68	0.037
52254.	60.95	52258.	58.68	0.037
52276.	58.68	52279.	60.95	0.039
52297.	60.95	52301.	58.68	0.037
52304.	58.68	52307.	60.95	0.039
52318.	58.68	52321.	60.95	0.039
52325.	62.14	52329.	59.78	0.038
52332.	58.68	52335.	60.95	0.039
52339.	62.14	52343.	59.78	0.038
52346.	58.68	52349.	60.95	0.039

52360.	58.68	52363.	60.95	0.039
52395.	60.95	52399.	58.68	0.037
52405.	60.95	52409.	58.68	0.037
52413.	58.68	52416.	60.95	0.039
52416.	60.95	52419.	63.37	0.040
52419.	63.37	52423.	60.95	0.038
52426.	60.95	52429.	63.37	0.040
52485.	62.14	52489.	59.78	0.038
52492.	59.78	52495.	62.14	0.039
52498.	62.14	52502.	59.78	0.038
52519.	59.78	52523.	62.14	0.039
52668.	60.95	52671.	63.37	0.040
52675.	63.37	52679.	60.95	0.038
52681.	62.14	52685.	64.69	0.041
52688.	63.37	52692.	60.95	0.038
52709.	59.78	52713.	62.14	0.039
52788.	60.95	52791.	63.37	0.040
52795.	63.37	52799.	60.95	0.038
52833.	62.14	52837.	59.78	0.038
52850.	60.95	52854.	58.68	0.037
52854.	58.68	52857.	60.95	0.039
52861.	60.95	52865.	58.68	0.037
52888.	62.14	52892.	59.78	0.038
52944.	60.95	52948.	58.68	0.037
52955.	59.78	52959.	57.63	0.036
52965.	58.68	52969.	60.95	0.039
52969.	60.95	52973.	58.68	0.037
52976.	59.78	52979.	62.14	0.039
53037.	62.14	53041.	59.78	0.038
53075.	62.14	53079.	59.78	0.038
53128.	60.95	53131.	63.37	0.040
53158.	62.14	53162.	59.78	0.038
53179.	59.78	53182.	62.14	0.039
53210.	62.14	53214.	59.78	0.038
53231.	59.78	53234.	62.14	0.039
53237.	62.14	53241.	59.78	0.038
53259.	59.78	53262.	62.14	0.039
53279.	63.37	53283.	60.95	0.038
53283.	60.95	53285.	63.37	0.040
53299.	60.95	53302.	64.69	0.061
53302.	64.69	53306.	60.95	0.058
53320.	62.14	53323.	59.78	0.038
53323.	59.78	53326.	63.37	0.060
53340.	63.37	53343.	66.02	0.042
53343.	66.02	53347.	62.14	0.059
53360.	62.14	53364.	59.78	0.038
53364.	59.78	53367.	62.14	0.039
53381.	62.14	53383.	64.69	0.041
53383.	64.69	53387.	62.14	0.039
53415.	59.78	53418.	62.14	0.039
53435.	63.37	53439.	60.95	0.038
53491.	62.14	53495.	59.78	0.038
53519.	60.95	53523.	58.68	0.037
53526.	59.78	53529.	62.14	0.039
53529.	62.14	53533.	59.78	0.038
53543.	62.14	53547.	59.78	0.038
53550.	59.78	53553.	62.14	0.039
53557.	62.14	53561.	59.78	0.038
53564.	60.95	53567.	63.37	0.040
53577.	62.14	53580.	64.69	0.041
53583.	64.69	53587.	62.14	0.039
53597.	62.14	53601.	59.78	0.038
53605.	59.78	53608.	62.14	0.039

53611.	62.14	53615.	59.78	0.038
53618.	60.95	53621.	63.37	0.040
53632.	60.95	53635.	63.37	0.040
53638.	63.37	53642.	60.95	0.038
53669.	60.95	53673.	63.37	0.040
53676.	63.37	53680.	60.95	0.038
53697.	59.78	53700.	62.14	0.039
53703.	62.14	53707.	59.78	0.038
53731.	62.14	53735.	59.78	0.038
53752.	59.78	53755.	62.14	0.039
53845.	60.95	53848.	63.37	0.040
53851.	62.14	53855.	59.78	0.038
53869.	60.95	53873.	58.68	0.037
53904.	62.14	53908.	59.78	0.038
53911.	58.68	53915.	60.95	0.039
53925.	59.78	53928.	62.14	0.039
53931.	63.37	53935.	60.95	0.038
53945.	62.14	53949.	59.78	0.038
53953.	59.78	53956.	62.14	0.039
53959.	62.14	53963.	59.78	0.038
53966.	60.95	53969.	63.37	0.040
53980.	59.78	53983.	62.14	0.039
53987.	62.14	53991.	59.78	0.038
54008.	59.78	54011.	62.14	0.039
54018.	59.78	54021.	62.14	0.039
54039.	62.14	54043.	59.78	0.038
54060.	59.78	54063.	62.14	0.039
54106.	64.69	54110.	62.14	0.039
54110.	62.14	54113.	64.69	0.041
54127.	60.95	54130.	63.37	0.040
54130.	63.37	54134.	59.78	0.057
54151.	60.95	54154.	63.37	0.040
54157.	63.37	54161.	60.95	0.038
54178.	60.95	54181.	64.69	0.061
54195.	62.14	54198.	64.69	0.041
54198.	64.69	54202.	60.95	0.058
54219.	59.78	54222.	62.14	0.039
54236.	63.37	54240.	60.95	0.038
54257.	59.78	54260.	62.14	0.039
54277.	62.14	54281.	59.78	0.038
54298.	60.95	54301.	64.69	0.061
54318.	63.37	54322.	59.78	0.057
54339.	59.78	54342.	63.37	0.060
54342.	63.37	54347.	59.78	0.057
54360.	60.95	54364.	58.68	0.037
54364.	58.68	54367.	63.37	0.079
54383.	64.69	54387.	60.95	0.058
54404.	60.95	54407.	63.37	0.040
54411.	63.37	54415.	60.95	0.038
54477.	62.14	54481.	59.78	0.038
54484.	59.78	54487.	62.14	0.039
54504.	62.14	54508.	59.78	0.038
54539.	59.78	54543.	62.14	0.039
54574.	62.14	54578.	59.78	0.038
54585.	60.95	54589.	58.68	0.037
54683.	59.78	54687.	57.63	0.036
54719.	58.68	54723.	60.95	0.039
54737.	60.95	54741.	57.63	0.055
54759.	56.57	54763.	58.68	0.037
54822.	57.63	54827.	55.59	0.035
54830.	56.57	54834.	54.64	0.034
54834.	54.64	54837.	56.57	0.035
54841.	56.57	54845.	54.64	0.034

69015.	66.02	69017.	63.37	0.040
69047.	60.95	69050.	63.37	0.040
69074.	60.95	69077.	64.69	0.061
69080.	63.37	69083.	66.02	0.042
69087.	64.69	69090.	67.41	0.042
69090.	67.41	69094.	64.69	0.040
69166.	60.95	69169.	64.69	0.061
69178.	66.02	69181.	68.91	0.044
69181.	68.91	69185.	66.02	0.042
69194.	66.02	69198.	63.37	0.040
69243.	60.95	69246.	63.37	0.040
69256.	63.37	69259.	66.02	0.042
69276.	63.37	69280.	60.95	0.038
69287.	60.95	69290.	63.37	0.040
69293.	62.14	69296.	64.69	0.041
69312.	67.41	69316.	64.69	0.040
69326.	62.14	69330.	59.78	0.038
69330.	59.78	69332.	62.14	0.039
69336.	63.37	69338.	66.02	0.042
69338.	66.02	69342.	63.37	0.040
69342.	63.37	69345.	66.02	0.042
69352.	64.69	69356.	62.14	0.039
69372.	62.14	69375.	66.02	0.062
69393.	62.14	69396.	59.78	0.038
69396.	59.78	69399.	62.14	0.039
69402.	63.37	69405.	66.02	0.042
69405.	66.02	69409.	63.37	0.040
69409.	63.37	69412.	66.02	0.042
69416.	66.02	69419.	63.37	0.040
69426.	60.95	69429.	64.69	0.061
69429.	64.69	69432.	62.14	0.039
69432.	62.14	69435.	64.69	0.041
69439.	64.69	69442.	67.41	0.042
69442.	67.41	69446.	64.69	0.040
69476.	60.95	69479.	64.69	0.061
69479.	64.69	69483.	62.14	0.039
69497.	62.14	69500.	59.78	0.038
69528.	60.95	69531.	63.37	0.040
69548.	64.69	69551.	62.14	0.039
69562.	62.14	69565.	59.78	0.038
69590.	60.95	69594.	58.68	0.037
69611.	58.68	69614.	60.95	0.039
69639.	60.95	69642.	63.37	0.040
69659.	63.37	69662.	60.95	0.038
69662.	60.95	69666.	63.37	0.040
69676.	59.78	69679.	62.14	0.039
69696.	64.69	69700.	60.95	0.058
69710.	62.14	69714.	59.78	0.038
69717.	59.78	69720.	62.14	0.039
69731.	59.78	69734.	63.37	0.060
69734.	63.37	69738.	60.95	0.038
69748.	60.95	69751.	63.37	0.040
69751.	63.37	69755.	59.78	0.057
69762.	62.14	69766.	59.78	0.038
69783.	59.78	69786.	62.14	0.039
69790.	62.14	69794.	59.78	0.038
69797.	60.95	69800.	63.37	0.040
69858.	60.95	69862.	58.68	0.037
69967.	60.95	69971.	58.68	0.037
70020.	60.95	70024.	58.68	0.037
70024.	58.68	70029.	56.57	0.036
70029.	56.57	70032.	58.68	0.037
70036.	58.68	70040.	56.57	0.036

70047.	56.57	70050.	58.68	0.037
70050.	58.68	70054.	56.57	0.036
70065.	58.68	70069.	56.57	0.036
70072.	57.63	70076.	59.78	0.037
70086.	58.68	70090.	60.95	0.039
70094.	59.78	70098.	57.63	0.036
70101.	57.63	70104.	59.78	0.037
70111.	59.78	70116.	57.63	0.036
70119.	58.68	70123.	56.57	0.036
70130.	56.57	70133.	58.68	0.037
70133.	58.68	70136.	60.95	0.039
70148.	59.78	70152.	57.63	0.036
70162.	58.68	70166.	56.57	0.036
70170.	56.57	70173.	58.68	0.037
70176.	58.68	70181.	56.57	0.036
70184.	56.57	70188.	59.78	0.057
70191.	60.95	70195.	57.63	0.055
70199.	56.57	70202.	58.68	0.037
70206.	59.78	70210.	56.57	0.054
70214.	55.59	70217.	57.63	0.037
70220.	58.68	70225.	56.57	0.036
70228.	55.59	70232.	57.63	0.037
70235.	58.68	70240.	56.57	0.036
70243.	55.59	70246.	58.68	0.056
70258.	56.57	70261.	59.78	0.057
70264.	59.78	70268.	57.63	0.036
70327.	56.57	70330.	59.78	0.057
70348.	60.95	70352.	58.68	0.037
70370.	58.68	70373.	60.95	0.039
70386.	63.37	70390.	60.95	0.038
70408.	58.68	70411.	60.95	0.039
70436.	58.68	70440.	60.95	0.039
70632.	62.14	70636.	59.78	0.038
70646.	60.95	70650.	58.68	0.037
70654.	58.68	70657.	60.95	0.039
70668.	58.68	70671.	60.95	0.039
70674.	62.14	70678.	59.78	0.038
70682.	58.68	70685.	60.95	0.039
70695.	59.78	70698.	62.14	0.039
70740.	62.14	70744.	59.78	0.038
70768.	62.14	70772.	59.78	0.038
70789.	59.78	70792.	62.14	0.039
70877.	59.78	70881.	57.63	0.036
70898.	59.78	70902.	62.14	0.039
70926.	59.78	70930.	62.14	0.039
70972.	62.14	70976.	59.78	0.038
71022.	57.63	71026.	59.78	0.037
71042.	63.37	71046.	60.95	0.038
71053.	60.95	71057.	58.68	0.037
71080.	56.57	71083.	58.68	0.037
71146.	60.95	71149.	63.37	0.040
71152.	63.37	71156.	60.95	0.038
71167.	59.78	71171.	57.63	0.036
71203.	58.68	71206.	60.95	0.039
71217.	58.68	71220.	60.95	0.039
71320.	59.78	71324.	57.63	0.036
71327.	57.63	71330.	59.78	0.037
71330.	59.78	71334.	57.63	0.036
71352.	57.63	71356.	59.78	0.037
71359.	59.78	71363.	57.63	0.036
71381.	58.68	71384.	60.95	0.039
71402.	60.95	71406.	58.68	0.037
71409.	58.68	71412.	60.95	0.039

71416.	60.95	71420.	58.68	0.037
71423.	58.68	71426.	60.95	0.039
71433.	60.95	71437.	58.68	0.037
71444.	60.95	71448.	58.68	0.037
71468.	62.14	71472.	59.78	0.038
71482.	62.14	71486.	59.78	0.038
71489.	60.95	71492.	63.37	0.040
71496.	62.14	71500.	59.78	0.038
71503.	59.78	71506.	62.14	0.039
71510.	60.95	71514.	58.68	0.037
71517.	59.78	71520.	62.14	0.039
71524.	60.95	71528.	58.68	0.037
71531.	59.78	71534.	62.14	0.039
71545.	60.95	71548.	63.37	0.040
71590.	60.95	71594.	58.68	0.037
71611.	59.78	71614.	62.14	0.039
71666.	58.68	71669.	60.95	0.039
71680.	59.78	71683.	62.14	0.039
71690.	60.95	71693.	63.37	0.040
71710.	62.14	71714.	59.78	0.038
71738.	62.14	71742.	59.78	0.038
71766.	62.14	71770.	59.78	0.038
71791.	60.95	71794.	63.37	0.040
71794.	63.37	71798.	59.78	0.057
71805.	60.95	71809.	58.68	0.037
71815.	58.68	71819.	60.95	0.039
71822.	60.95	71826.	58.68	0.037
71826.	58.68	71830.	60.95	0.039
71833.	60.95	71837.	58.68	0.037
71837.	58.68	71840.	60.95	0.039
71843.	62.14	71846.	64.69	0.041
71853.	62.14	71856.	64.69	0.041
71856.	64.69	71860.	62.14	0.039
71874.	62.14	71878.	59.78	0.038
71895.	59.78	71898.	62.14	0.039
71901.	62.14	71905.	59.78	0.038
71912.	60.95	71915.	63.37	0.040
71915.	63.37	71919.	60.95	0.038
71922.	60.95	71925.	63.37	0.040
71925.	63.37	71929.	60.95	0.038
71932.	62.14	71936.	59.78	0.038
71936.	59.78	71939.	63.37	0.060
71939.	63.37	71943.	60.95	0.038
71946.	60.95	71949.	63.37	0.040
71956.	62.14	71960.	59.78	0.038
71960.	59.78	71963.	63.37	0.060
71980.	64.69	71984.	60.95	0.058
72000.	60.95	72004.	63.37	0.040
72021.	62.14	72025.	59.78	0.038
72042.	58.68	72046.	60.95	0.039
72046.	60.95	72050.	58.68	0.037
72050.	58.68	72052.	60.95	0.039
72066.	60.95	72070.	63.37	0.040
72070.	63.37	72073.	60.95	0.038
72087.	62.14	72091.	59.78	0.038
72091.	59.78	72094.	62.14	0.039
72108.	60.95	72111.	63.37	0.040
72111.	63.37	72114.	60.95	0.038
72128.	62.14	72132.	59.78	0.038
72149.	59.78	72152.	62.14	0.039
72152.	62.14	72156.	59.78	0.038
72174.	59.78	72176.	63.37	0.060
72194.	63.37	72198.	59.78	0.057

72214.	60.95	72218.	63.37	0.040
72221.	63.37	72225.	60.95	0.038
72242.	59.78	72245.	63.37	0.060
72262.	63.37	72266.	60.95	0.038
72269.	59.78	72272.	63.37	0.060
72272.	63.37	72276.	59.78	0.057
72294.	58.68	72297.	60.95	0.039
72308.	60.95	72310.	63.37	0.040
72310.	63.37	72314.	60.95	0.038
72328.	62.14	72332.	59.78	0.038
72369.	62.14	72373.	59.78	0.038
72442.	59.78	72445.	62.14	0.039
72449.	62.14	72453.	59.78	0.038
72470.	59.78	72473.	62.14	0.039
72501.	62.14	72505.	59.78	0.038
72512.	59.78	72514.	62.14	0.039
72514.	62.14	72518.	59.78	0.038
72522.	59.78	72525.	62.14	0.039
72539.	60.95	72542.	63.37	0.040
72542.	63.37	72546.	60.95	0.038
72567.	60.95	72570.	63.37	0.040
72570.	63.37	72574.	60.95	0.038
72597.	63.37	72601.	60.95	0.038
72618.	59.78	72621.	63.37	0.060
72621.	63.37	72625.	60.95	0.038
72639.	62.14	72642.	59.78	0.038
72642.	59.78	72646.	62.14	0.039
72676.	63.37	72680.	60.95	0.038
72740.	63.37	72743.	60.95	0.038
72757.	59.78	72760.	62.14	0.039
72764.	62.14	72766.	64.69	0.041
72766.	64.69	72770.	62.14	0.039
72770.	62.14	72773.	64.69	0.041
72787.	60.95	72790.	64.69	0.061
72800.	63.37	72803.	66.02	0.042
72807.	64.69	72810.	62.14	0.039
72817.	62.14	72820.	64.69	0.041
72820.	64.69	72824.	62.14	0.039
72837.	63.37	72840.	60.95	0.038
72840.	60.95	72844.	63.37	0.040
72868.	62.14	72870.	64.69	0.041
72870.	64.69	72874.	60.95	0.058
72878.	62.14	72880.	64.69	0.041
72887.	64.69	72891.	62.14	0.039
72891.	62.14	72894.	64.69	0.041
72897.	66.02	72901.	62.14	0.059
72914.	63.37	72918.	60.95	0.038
72918.	60.95	72921.	63.37	0.040
72941.	63.37	72944.	60.95	0.038
72944.	60.95	72948.	63.37	0.040
72971.	62.14	72974.	64.69	0.041
72974.	64.69	72978.	60.95	0.058
72982.	62.14	72984.	64.69	0.041
72984.	64.69	72988.	62.14	0.039
72995.	60.95	72998.	63.37	0.040
73001.	64.69	73005.	60.95	0.058
73018.	63.37	73022.	60.95	0.038
73022.	60.95	73025.	63.37	0.040
73048.	64.69	73050.	67.41	0.042
73050.	67.41	73054.	64.69	0.040
73067.	64.69	73071.	60.95	0.058
73074.	62.14	73077.	64.69	0.041
73077.	64.69	73081.	60.95	0.058

73088.	60.95	73091.	63.37	0.040
73098.	62.14	73100.	66.02	0.062
73110.	66.02	73114.	63.37	0.040
73118.	63.37	73122.	59.78	0.057
73125.	60.95	73128.	63.37	0.040
73131.	62.14	73134.	64.69	0.041
73138.	63.37	73141.	66.02	0.042
73144.	64.69	73148.	62.14	0.039
73151.	63.37	73155.	60.95	0.038
73155.	60.95	73158.	63.37	0.040
73158.	63.37	73162.	59.78	0.057
73172.	59.78	73175.	62.14	0.039
73175.	62.14	73179.	59.78	0.038
73179.	59.78	73182.	64.69	0.082
73201.	64.69	73204.	67.41	0.042
73208.	67.41	73211.	64.69	0.040
73221.	64.69	73225.	60.95	0.058
73225.	60.95	73228.	63.37	0.040
73234.	64.69	73238.	62.14	0.039
73255.	60.95	73258.	64.69	0.061
73276.	62.14	73279.	59.78	0.038
73279.	59.78	73282.	62.14	0.039
73286.	62.14	73288.	64.69	0.041
73288.	64.69	73292.	62.14	0.039
73310.	59.78	73312.	63.37	0.060
73316.	62.14	73319.	64.69	0.041
73322.	63.37	73326.	66.02	0.042
73326.	66.02	73330.	63.37	0.040
73361.	59.78	73364.	63.37	0.060
73367.	62.14	73370.	64.69	0.041
73374.	63.37	73377.	66.02	0.042
73380.	64.69	73384.	62.14	0.039
73394.	62.14	73398.	59.78	0.038
73418.	63.37	73421.	66.02	0.042
73510.	63.37	73514.	60.95	0.038
73530.	62.14	73533.	64.69	0.041
73567.	63.37	73570.	66.02	0.042
73580.	64.69	73583.	67.41	0.042
73590.	64.69	73593.	62.14	0.039
73621.	59.78	73624.	62.14	0.039
73640.	66.02	73644.	63.37	0.040
73678.	62.14	73682.	59.78	0.038
73705.	64.69	73709.	62.14	0.039
73722.	63.37	73726.	60.95	0.038
73726.	60.95	73729.	63.37	0.040
73729.	63.37	73732.	60.95	0.038
73740.	59.78	73742.	62.14	0.039
73760.	63.37	73764.	59.78	0.057
73764.	59.78	73766.	62.14	0.039
73780.	60.95	73784.	63.37	0.040
73784.	63.37	73788.	59.78	0.057
73788.	59.78	73790.	62.14	0.039
73804.	60.95	73808.	63.37	0.040
73808.	63.37	73811.	60.95	0.038
73824.	63.37	73828.	60.95	0.038
73828.	60.95	73831.	63.37	0.040
73845.	60.95	73848.	63.37	0.040
73848.	63.37	73852.	60.95	0.038
73876.	62.14	73879.	64.69	0.041
73879.	64.69	73883.	62.14	0.039
73890.	62.14	73894.	59.78	0.038
73894.	59.78	73896.	62.14	0.039
73896.	62.14	73900.	59.78	0.038

73900.	59.78	73903.	62.14	0.039
73910.	60.95	73914.	63.37	0.040
73914.	63.37	73917.	60.95	0.038
73931.	62.14	73935.	59.78	0.038
73935.	59.78	73938.	62.14	0.039
73951.	62.14	73954.	66.02	0.062
73971.	64.69	73975.	60.95	0.058
73992.	59.78	73995.	62.14	0.039
74022.	63.37	74026.	60.95	0.038
74043.	60.95	74046.	63.37	0.040
74050.	63.37	74054.	60.95	0.038
74071.	59.78	74074.	62.14	0.039
74091.	62.14	74095.	59.78	0.038
74109.	60.95	74113.	58.68	0.037
74113.	58.68	74116.	60.95	0.039
74151.	58.68	74154.	60.95	0.039
74178.	60.95	74182.	63.37	0.040
74185.	63.37	74189.	60.95	0.038
74250.	62.14	74254.	58.68	0.056
74272.	59.78	74275.	62.14	0.039
74427.	60.95	74431.	58.68	0.037
74448.	59.78	74452.	62.14	0.039
74535.	60.95	74539.	58.68	0.037
74542.	58.68	74545.	60.95	0.039
74587.	62.14	74591.	59.78	0.038
74601.	60.95	74605.	58.68	0.037
74664.	59.78	74667.	62.14	0.039
74684.	62.14	74688.	59.78	0.038
74698.	60.95	74702.	58.68	0.037
74706.	58.68	74709.	60.95	0.039
74709.	60.95	74713.	58.68	0.037
74731.	58.68	74734.	60.95	0.039
74779.	62.14	74783.	59.78	0.038
74786.	59.78	74789.	62.14	0.039
74806.	62.14	74810.	59.78	0.038
74828.	58.68	74831.	60.95	0.039
74917.	59.78	74921.	57.63	0.036
74932.	58.68	74936.	56.57	0.036
74939.	57.63	74942.	59.78	0.037
74942.	59.78	74946.	57.63	0.036
74956.	60.95	74960.	58.68	0.037
74964.	58.68	74967.	60.95	0.039
75020.	57.63	75024.	59.78	0.037
75035.	57.63	75038.	59.78	0.037
75041.	60.95	75045.	58.68	0.037
75049.	58.68	75052.	60.95	0.039
75056.	60.95	75060.	58.68	0.037
75063.	58.68	75066.	60.95	0.039
75080.	60.95	75084.	58.68	0.037
75150.	60.95	75154.	58.68	0.037
75172.	58.68	75175.	60.95	0.039
75190.	59.78	75194.	57.63	0.036
75241.	57.63	75244.	59.78	0.037
75300.	64.69	75304.	62.14	0.039
75312.	60.95	75316.	58.68	0.037
75341.	58.68	75345.	56.57	0.036
75364.	55.59	75367.	57.63	0.037
75377.	59.78	75380.	62.14	0.039
75398.	59.78	75402.	57.63	0.036
75420.	57.63	75424.	59.78	0.037
75438.	60.95	75442.	57.63	0.055
75460.	56.57	75464.	59.78	0.057
75481.	60.95	75486.	57.63	0.055

75504.	55.59	75508.	57.63	0.037
75518.	58.68	75521.	60.95	0.039
75539.	60.95	75543.	58.68	0.037
75572.	56.57	75576.	58.68	0.037
75586.	60.95	75589.	63.37	0.040
75592.	63.37	75596.	60.95	0.038
75607.	59.78	75611.	57.63	0.036
75628.	58.68	75632.	60.95	0.039
75649.	62.14	75653.	59.78	0.038
75670.	58.68	75674.	60.95	0.039
75674.	60.95	75678.	58.68	0.037
75688.	62.14	75692.	59.78	0.038
75695.	58.68	75698.	60.95	0.039
75702.	62.14	75706.	59.78	0.038
75709.	59.78	75712.	62.14	0.039
75722.	60.95	75726.	63.37	0.040
75743.	62.14	75747.	59.78	0.038
75763.	62.14	75766.	64.69	0.041
75770.	64.69	75774.	62.14	0.039
75791.	59.78	75794.	62.14	0.039
75794.	62.14	75798.	59.78	0.038
75798.	59.78	75801.	62.14	0.039
75814.	62.14	75818.	64.69	0.041
75873.	60.95	75876.	63.37	0.040
75876.	63.37	75880.	60.95	0.038
75880.	60.95	75883.	63.37	0.040
75890.	64.69	75894.	62.14	0.039
75897.	60.95	75900.	64.69	0.061
75900.	64.69	75904.	60.95	0.058
75904.	60.95	75906.	63.37	0.040
75910.	62.14	75913.	64.69	0.041
75920.	62.14	75923.	66.02	0.062
75923.	66.02	75926.	63.37	0.040
75940.	64.69	75944.	60.95	0.058
75944.	60.95	75946.	63.37	0.040
75956.	64.69	75960.	62.14	0.039
75960.	62.14	75963.	64.69	0.041
75963.	64.69	75967.	62.14	0.039
75980.	63.37	75984.	60.95	0.038
75990.	63.37	75994.	60.95	0.038
76001.	60.95	76004.	63.37	0.040
76010.	63.37	76013.	66.02	0.042
76027.	62.14	76030.	64.69	0.041
76030.	64.69	76034.	60.95	0.058
76047.	63.37	76051.	60.95	0.038
76051.	60.95	76054.	63.37	0.040
76077.	63.37	76080.	66.02	0.042
76096.	64.69	76100.	60.95	0.058
76100.	60.95	76103.	63.37	0.040
76117.	62.14	76120.	66.02	0.062
76120.	66.02	76123.	63.37	0.040
76140.	60.95	76143.	63.37	0.040
76161.	62.14	76164.	59.78	0.038
76164.	59.78	76167.	62.14	0.039
76171.	62.14	76174.	64.69	0.041
76174.	64.69	76178.	62.14	0.039
76194.	60.95	76197.	64.69	0.061
76207.	64.69	76210.	67.41	0.042
76227.	64.69	76230.	62.14	0.039
76241.	62.14	76244.	59.78	0.038
76286.	62.14	76289.	64.69	0.041
76289.	64.69	76292.	62.14	0.039
76296.	62.14	76300.	59.78	0.038

76300.	59.78	76303.	62.14	0.039
76333.	63.37	76337.	60.95	0.038
76354.	59.78	76357.	63.37	0.060
76357.	63.37	76361.	60.95	0.038
76375.	60.95	76379.	58.68	0.037
76379.	58.68	76382.	60.95	0.039
76547.	62.14	76551.	59.78	0.038
76554.	59.78	76557.	62.14	0.039
76564.	59.78	76567.	62.14	0.039
76567.	62.14	76570.	64.69	0.041
76588.	62.14	76592.	59.78	0.038
76626.	62.14	76630.	59.78	0.038
76640.	60.95	76644.	58.68	0.037
76648.	58.68	76651.	60.95	0.039
76668.	62.14	76672.	59.78	0.038
76696.	60.95	76700.	58.68	0.037
76718.	58.68	76721.	60.95	0.039
76732.	59.78	76735.	62.14	0.039
76735.	62.14	76739.	59.78	0.038
76742.	59.78	76746.	62.14	0.039
76749.	62.14	76753.	59.78	0.038
76756.	59.78	76760.	62.14	0.039
76812.	59.78	76815.	62.14	0.039
76830.	60.95	76834.	58.68	0.037
76851.	58.68	76854.	60.95	0.039
76872.	60.95	76876.	58.68	0.037
76880.	58.68	76883.	60.95	0.039
76886.	60.95	76890.	58.68	0.037
76894.	58.68	76897.	60.95	0.039
76900.	60.95	76904.	58.68	0.037
76908.	57.63	76911.	59.78	0.037
76914.	60.95	76918.	58.68	0.037
76922.	58.68	76925.	60.95	0.039
76929.	60.95	76933.	58.68	0.037
76936.	58.68	76939.	60.95	0.039
76953.	62.14	76957.	59.78	0.038
76967.	60.95	76971.	58.68	0.037
76982.	60.95	76986.	58.68	0.037
76989.	57.63	76992.	59.78	0.037
77002.	60.95	77006.	63.37	0.040
77009.	64.69	77013.	62.14	0.039
77023.	62.14	77027.	59.78	0.038
77030.	58.68	77034.	60.95	0.039
77207.	59.78	77210.	62.14	0.039
77224.	62.14	77228.	59.78	0.038
77231.	59.78	77234.	62.14	0.039
77245.	60.95	77248.	63.37	0.040
77296.	62.14	77300.	59.78	0.038
77331.	62.14	77335.	59.78	0.038
77394.	59.78	77397.	62.14	0.039
77453.	60.95	77457.	58.68	0.037
77474.	59.78	77478.	62.14	0.039
77538.	59.78	77542.	57.63	0.036
77559.	58.68	77562.	60.95	0.039
77562.	60.95	77566.	58.68	0.037
77570.	58.68	77573.	60.95	0.039
77577.	60.95	77581.	58.68	0.037
77584.	57.63	77588.	59.78	0.037
77591.	60.95	77595.	58.68	0.037
77598.	58.68	77602.	60.95	0.039
77605.	60.95	77609.	58.68	0.037
77613.	57.63	77616.	59.78	0.037
77620.	59.78	77624.	57.63	0.036

77627.	57.63	77630.	59.78	0.037
77634.	59.78	77638.	57.63	0.036
77642.	57.63	77645.	59.78	0.037
77662.	62.14	77666.	59.78	0.038
77684.	56.57	77688.	58.68	0.037
77738.	56.57	77742.	58.68	0.037
77752.	60.95	77755.	63.37	0.040
77758.	63.37	77762.	60.95	0.038
77773.	58.68	77777.	56.57	0.036
77796.	56.57	77799.	58.68	0.037
77799.	58.68	77803.	56.57	0.036
77822.	55.59	77825.	57.63	0.037
77895.	57.63	77898.	59.78	0.037
77909.	60.95	77912.	63.37	0.040
77926.	62.14	77930.	59.78	0.038
77963.	56.57	77966.	58.68	0.037
77970.	58.68	77974.	56.57	0.036
77985.	58.68	77989.	55.59	0.053
77993.	55.59	77996.	57.63	0.037
78008.	55.59	78011.	57.63	0.037
78037.	56.57	78040.	58.68	0.037
78051.	58.68	78054.	60.95	0.039
78069.	60.95	78073.	58.68	0.037
78090.	58.68	78094.	60.95	0.039
78111.	60.95	78115.	58.68	0.037
78158.	58.68	78162.	56.57	0.036
78162.	56.57	78165.	58.68	0.037
78176.	57.63	78179.	59.78	0.037
78256.	59.78	78259.	62.14	0.039
78283.	59.78	78286.	62.14	0.039
78286.	62.14	78290.	59.78	0.038
78294.	59.78	78297.	62.14	0.039
78376.	60.95	78379.	63.37	0.040
78382.	63.37	78386.	60.95	0.038
78404.	59.78	78407.	62.14	0.039
78434.	62.14	78438.	59.78	0.038
78455.	59.78	78458.	62.14	0.039
78482.	60.95	78486.	63.37	0.040
78502.	63.37	78506.	60.95	0.038
78523.	60.95	78526.	64.69	0.061
78526.	64.69	78530.	60.95	0.058
78554.	63.37	78558.	60.95	0.038
78574.	62.14	78577.	64.69	0.041
78584.	64.69	78588.	62.14	0.039
78588.	62.14	78591.	64.69	0.041
78591.	64.69	78594.	62.14	0.039
78654.	59.78	78657.	62.14	0.039
78664.	63.37	78668.	60.95	0.038
78668.	60.95	78671.	63.37	0.040
78685.	59.78	78688.	62.14	0.039
78692.	60.95	78694.	63.37	0.040
78698.	64.69	78700.	67.41	0.042
78700.	67.41	78704.	64.69	0.040
78721.	62.14	78724.	66.02	0.062
78741.	63.37	78744.	60.95	0.038
78748.	62.14	78750.	64.69	0.041
78750.	64.69	78754.	60.95	0.058
78768.	63.37	78771.	60.95	0.038
78771.	60.95	78774.	63.37	0.040
78798.	62.14	78801.	64.69	0.041
78894.	66.02	78898.	63.37	0.040
78900.	63.37	78904.	66.02	0.042
78907.	64.69	78911.	62.14	0.039

78956.	63.37	78959.	66.02	0.042
78959.	66.02	78963.	63.37	0.040
78966.	62.14	78969.	64.69	0.041
78979.	63.37	78982.	67.41	0.063
78982.	67.41	78986.	64.69	0.040
78989.	63.37	78992.	66.02	0.042
78995.	66.02	78999.	63.37	0.040
79002.	62.14	79005.	66.02	0.062
79009.	64.69	79012.	62.14	0.039
79016.	62.14	79018.	66.02	0.062
79022.	64.69	79026.	62.14	0.039
79026.	62.14	79028.	64.69	0.041
79028.	64.69	79031.	67.41	0.042
79035.	66.02	79038.	63.37	0.040
79038.	63.37	79041.	66.02	0.042
79044.	67.41	79048.	64.69	0.040
79048.	64.69	79052.	62.14	0.039
79052.	62.14	79054.	64.69	0.041
79058.	66.02	79061.	63.37	0.040
79065.	62.14	79068.	64.69	0.041
79071.	66.02	79074.	63.37	0.040
79078.	62.14	79081.	64.69	0.041
79084.	66.02	79088.	62.14	0.059
79091.	62.14	79094.	64.69	0.041
79097.	66.02	79101.	62.14	0.059
79104.	62.14	79107.	66.02	0.062
79110.	67.41	79114.	63.37	0.060
79117.	63.37	79120.	67.41	0.063
79123.	68.91	79126.	66.02	0.042
79126.	66.02	79130.	63.37	0.040
79130.	63.37	79133.	66.02	0.042
79136.	67.41	79140.	64.69	0.040
79146.	64.69	79149.	67.41	0.042
79184.	64.69	79188.	62.14	0.039
79195.	63.37	79198.	66.02	0.042
79257.	62.14	79260.	64.69	0.041
79276.	66.02	79280.	63.37	0.040
79283.	62.14	79286.	64.69	0.041
79302.	67.41	79306.	64.69	0.040
79319.	62.14	79322.	64.69	0.041
79322.	64.69	79324.	67.41	0.042
79337.	70.43	79341.	66.02	0.062
79357.	63.37	79360.	67.41	0.063
79376.	66.02	79380.	63.37	0.040
79383.	62.14	79386.	64.69	0.041
79428.	63.37	79431.	66.02	0.042
79434.	67.41	79438.	64.69	0.040
79438.	64.69	79442.	62.14	0.039
79481.	64.69	79485.	62.14	0.039
79485.	62.14	79488.	64.69	0.041
79502.	62.14	79504.	64.69	0.041
79504.	64.69	79508.	62.14	0.039
79522.	62.14	79526.	59.78	0.038
79540.	59.78	79542.	62.14	0.039
79550.	60.95	79553.	63.37	0.040
79560.	62.14	79564.	59.78	0.038
79564.	59.78	79566.	63.37	0.060
79584.	63.37	79587.	60.95	0.038
79798.	62.14	79802.	59.78	0.038
79820.	59.78	79822.	63.37	0.060
79840.	63.37	79844.	59.78	0.057
79873.	64.69	79876.	67.41	0.042
79888.	68.91	79892.	66.02	0.042

79901.	67.41	79905.	63.37	0.060
79908.	63.37	79911.	66.02	0.042
79921.	63.37	79924.	66.02	0.042
79928.	66.02	79931.	63.37	0.040
79954.	64.69	79958.	60.95	0.058
79975.	60.95	79978.	63.37	0.040
79985.	63.37	79988.	60.95	0.038
79988.	60.95	79992.	63.37	0.040
79992.	63.37	79996.	60.95	0.038
80013.	59.78	80016.	63.37	0.060
80019.	63.37	80023.	60.95	0.038
80023.	60.95	80026.	63.37	0.040
80032.	64.69	80036.	62.14	0.039
80040.	60.95	80043.	63.37	0.040
80043.	63.37	80046.	60.95	0.038
80057.	60.95	80060.	63.37	0.040
80067.	62.14	80070.	64.69	0.041
80087.	62.14	80091.	58.68	0.056
80098.	60.95	80102.	58.68	0.037
80109.	58.68	80112.	60.95	0.039
80119.	59.78	80122.	62.14	0.039
80139.	63.37	80143.	60.95	0.038
80154.	60.95	80158.	58.68	0.037
80161.	57.63	80164.	59.78	0.037
80175.	58.68	80178.	60.95	0.039
80182.	62.14	80186.	59.78	0.038
80189.	58.68	80192.	60.95	0.039
80210.	62.14	80214.	59.78	0.038
80231.	59.78	80234.	62.14	0.039
80234.	62.14	80238.	59.78	0.038
80304.	62.14	80308.	59.78	0.038
80340.	57.63	80344.	59.78	0.037
80358.	60.95	80362.	57.63	0.055
80414.	58.68	80418.	56.57	0.036
80469.	56.57	80472.	59.78	0.057
80472.	59.78	80477.	56.57	0.054
80496.	54.64	80499.	57.63	0.055
80510.	57.63	80513.	59.78	0.037
80517.	58.68	80521.	56.57	0.036
80532.	56.57	80536.	54.64	0.034
80540.	54.64	80544.	56.57	0.035
80548.	56.57	80552.	54.64	0.034
80556.	54.64	80559.	56.57	0.035
80563.	56.57	80567.	54.64	0.034
80570.	55.59	80574.	57.63	0.037
80585.	56.57	80588.	58.68	0.037
80588.	58.68	80593.	56.57	0.036
80610.	57.63	80614.	59.78	0.037
80632.	59.78	80636.	57.63	0.036
80636.	57.63	80640.	55.59	0.035
80647.	57.63	80651.	55.59	0.035
80658.	56.57	80662.	58.68	0.037
80662.	58.68	80666.	56.57	0.036
80700.	54.64	80703.	57.63	0.055
80777.	58.68	80782.	56.57	0.036
80785.	55.59	80788.	58.68	0.056
80792.	58.68	80796.	55.59	0.053
80800.	56.57	80803.	59.78	0.057
80806.	59.78	80811.	56.57	0.054
80814.	56.57	80818.	59.78	0.057
80821.	58.68	80826.	55.59	0.053
80829.	55.59	80833.	57.63	0.037
80843.	57.63	80847.	59.78	0.037

80861.	59.78	80865.	57.63	0.036
80883.	56.57	80887.	58.68	0.037
80905.	58.68	80909.	56.57	0.036
80927.	57.63	80930.	59.78	0.037
80948.	59.78	80952.	57.63	0.036
80988.	58.68	80993.	56.57	0.036
81011.	56.57	81014.	58.68	0.037
81032.	59.78	81036.	57.63	0.036
81040.	57.63	81043.	59.78	0.037
81046.	59.78	81050.	57.63	0.036
81054.	57.63	81058.	59.78	0.037
81101.	58.68	81105.	56.57	0.036
81116.	58.68	81120.	55.59	0.053
81124.	55.59	81127.	57.63	0.037
81134.	57.63	81138.	55.59	0.035
81138.	55.59	81142.	57.63	0.037
81156.	57.63	81160.	59.78	0.037
81163.	59.78	81167.	57.63	0.036
81178.	58.68	81182.	56.57	0.036
81267.	57.63	81270.	59.78	0.037
81281.	57.63	81284.	59.78	0.037
81288.	59.78	81292.	56.57	0.054
81296.	56.57	81299.	58.68	0.037
81303.	58.68	81307.	55.59	0.053
81311.	55.59	81314.	57.63	0.037
81318.	57.63	81322.	54.64	0.052
81326.	54.64	81329.	57.63	0.055
81340.	56.57	81344.	58.68	0.037
81344.	58.68	81348.	56.57	0.036
81352.	55.59	81355.	57.63	0.037
81359.	57.63	81363.	55.59	0.035
81366.	56.57	81370.	59.78	0.057
81374.	58.68	81378.	56.57	0.036
81378.	56.57	81381.	58.68	0.037
81384.	59.78	81388.	57.63	0.036
81388.	57.63	81392.	55.59	0.035
81392.	55.59	81396.	57.63	0.037
81432.	58.68	81437.	55.59	0.053
81448.	57.63	81452.	55.59	0.035
81455.	55.59	81459.	57.63	0.037
81474.	57.63	81478.	55.59	0.035
81482.	56.57	81486.	54.64	0.034
81489.	55.59	81494.	53.70	0.034
81497.	54.64	81500.	56.57	0.035
81512.	56.57	81515.	58.68	0.037
81519.	57.63	81523.	55.59	0.035
81527.	54.64	81531.	56.57	0.035
81534.	56.57	81538.	54.64	0.034
81542.	55.59	81545.	57.63	0.037
81553.	56.57	81557.	54.64	0.034
81557.	54.64	81561.	56.57	0.035
81564.	57.63	81568.	54.64	0.052
81572.	55.59	81575.	57.63	0.037
81583.	56.57	81587.	54.64	0.034
81587.	54.64	81591.	56.57	0.035
81594.	56.57	81598.	54.64	0.034
81620.	58.68	81624.	56.57	0.036
81628.	56.57	81631.	58.68	0.037
81631.	58.68	81635.	56.57	0.036
81643.	54.64	81647.	56.57	0.035
81650.	57.63	81654.	54.64	0.052
81654.	54.64	81658.	56.57	0.035
81665.	57.63	81670.	55.59	0.035

81688.	54.64	81692.	57.63	0.055
81692.	57.63	81696.	55.59	0.035
81704.	55.59	81707.	57.63	0.037
81711.	56.57	81715.	54.64	0.034
81808.	54.64	81811.	56.57	0.035
81822.	56.57	81826.	58.68	0.037
81829.	58.68	81834.	56.57	0.036
81834.	56.57	81838.	54.64	0.034
81838.	54.64	81841.	56.57	0.035
81853.	53.70	81856.	56.57	0.054
81876.	54.64	81880.	52.81	0.034
81880.	52.81	81883.	55.59	0.053
81902.	57.63	81906.	54.64	0.052
81932.	56.57	81937.	54.64	0.034
81956.	54.64	81959.	56.57	0.035
81963.	57.63	81967.	55.59	0.035
81978.	55.59	81983.	53.70	0.034
82021.	55.59	82025.	53.70	0.034
82037.	53.70	82041.	51.95	0.032
82045.	51.95	82049.	53.70	0.034
82108.	52.81	82111.	54.64	0.035
82135.	53.70	82138.	55.59	0.035
82158.	54.64	82162.	52.81	0.034
82182.	52.81	82186.	54.64	0.035
82205.	54.64	82210.	52.81	0.034
82280.	54.64	82284.	52.81	0.034
82312.	52.81	82317.	51.10	0.032
82337.	50.29	82341.	51.95	0.033
82353.	51.95	82357.	53.70	0.034
82376.	54.64	82381.	52.81	0.034
82388.	52.81	82393.	51.10	0.032
82413.	51.10	82417.	52.81	0.034
82437.	52.81	82442.	51.10	0.032
82442.	51.10	82446.	52.81	0.034
82446.	52.81	82449.	54.64	0.035
82449.	54.64	82454.	52.81	0.034
82454.	52.81	82458.	51.10	0.032
82511.	50.29	82515.	52.81	0.050
82515.	52.81	82519.	51.10	0.032
82532.	51.10	82537.	49.52	0.031
82545.	49.52	82548.	51.10	0.032
82608.	49.52	82612.	51.10	0.032
82620.	50.29	82625.	48.74	0.031
82625.	48.74	82629.	50.29	0.032
82638.	48.74	82642.	47.30	0.030
82642.	47.30	82646.	49.52	0.047
82650.	49.52	82655.	48.01	0.030
82659.	48.74	82663.	50.29	0.032
82680.	51.10	82685.	49.52	0.031
82689.	48.74	82692.	50.29	0.032
82701.	49.52	82705.	51.10	0.032
82713.	51.95	82718.	49.52	0.047
82718.	49.52	82722.	51.10	0.032
82738.	50.29	82742.	51.95	0.033
82751.	50.29	82756.	48.01	0.045
82756.	48.01	82760.	49.52	0.031
82781.	51.95	82785.	50.29	0.032
82789.	51.10	82792.	53.70	0.051
82804.	54.64	82807.	56.57	0.035
82826.	56.57	82831.	54.64	0.034
82842.	54.64	82847.	52.81	0.034
82885.	54.64	82890.	52.81	0.034
82941.	53.70	82945.	55.59	0.035

82979.	56.57	82983.	54.64	0.034
83010.	55.59	83014.	53.70	0.034
83014.	53.70	83017.	55.59	0.035
83033.	55.59	83036.	57.63	0.037
83036.	57.63	83040.	55.59	0.035
83073.	57.63	83077.	59.78	0.037
83095.	57.63	83100.	54.64	0.052
83100.	54.64	83103.	56.57	0.035
83114.	57.63	83118.	55.59	0.035
83118.	55.59	83122.	57.63	0.037
83147.	56.57	83151.	58.68	0.037
83151.	58.68	83155.	56.57	0.036
83166.	57.63	83170.	55.59	0.035
83185.	56.57	83188.	58.68	0.037
83191.	59.78	83196.	56.57	0.054
83207.	57.63	83211.	55.59	0.035
83215.	54.64	83218.	57.63	0.055
83221.	58.68	83225.	56.57	0.036
83229.	55.59	83233.	57.63	0.037
83233.	57.63	83236.	59.78	0.037
83239.	58.68	83244.	56.57	0.036
83247.	57.63	83251.	59.78	0.037
83254.	59.78	83258.	56.57	0.054
83262.	56.57	83265.	58.68	0.037
83272.	58.68	83276.	56.57	0.036
83276.	56.57	83280.	58.68	0.037
83316.	56.57	83320.	58.68	0.037
83352.	58.68	83356.	56.57	0.036
83374.	57.63	83377.	59.78	0.037
83392.	58.68	83397.	55.59	0.053
83403.	56.57	83407.	58.68	0.037
83407.	58.68	83411.	55.59	0.053
83415.	55.59	83418.	58.68	0.056
83425.	58.68	83429.	56.57	0.036
83429.	56.57	83433.	58.68	0.037
83440.	57.63	83444.	55.59	0.035
83521.	59.78	83526.	55.59	0.070
83536.	58.68	83540.	55.59	0.053
83544.	55.59	83547.	59.78	0.075
83551.	58.68	83555.	55.59	0.053
83559.	55.59	83562.	58.68	0.056
83565.	58.68	83570.	55.59	0.053
83573.	55.59	83577.	58.68	0.056
83580.	58.68	83585.	55.59	0.053
83588.	55.59	83591.	58.68	0.056
83595.	58.68	83599.	55.59	0.053
83603.	55.59	83606.	58.68	0.056
83610.	58.68	83614.	55.59	0.053
83617.	56.57	83621.	59.78	0.057
83624.	59.78	83629.	55.59	0.070
83632.	56.57	83636.	58.68	0.037
83636.	58.68	83640.	56.57	0.036
83640.	56.57	83644.	54.64	0.034
83647.	55.59	83651.	58.68	0.056
83651.	58.68	83655.	55.59	0.053
83659.	55.59	83662.	57.63	0.037
83665.	58.68	83670.	55.59	0.053
83673.	55.59	83677.	58.68	0.056
83680.	58.68	83685.	55.59	0.053
83688.	55.59	83692.	57.63	0.037
83695.	58.68	83699.	55.59	0.053
83703.	55.59	83707.	57.63	0.037
83714.	57.63	83718.	54.64	0.052

83718.	54.64	83722.	56.57	0.035
83737.	55.59	83740.	57.63	0.037
83769.	58.68	83773.	56.57	0.036
83776.	57.63	83779.	59.78	0.037
83795.	58.68	83799.	56.57	0.036
83802.	55.59	83805.	57.63	0.037
83823.	60.95	83827.	58.68	0.037
83834.	57.63	83839.	55.59	0.035
83857.	54.64	83861.	57.63	0.055
83955.	60.95	83959.	57.63	0.055
83967.	56.57	83972.	58.68	0.037
83979.	58.68	83984.	54.64	0.068
84004.	51.95	84008.	54.64	0.052
84012.	54.64	84016.	52.81	0.034
84052.	51.95	84056.	53.70	0.034
84075.	55.59	84080.	53.70	0.034
84119.	54.64	84123.	52.81	0.034
84127.	53.70	84130.	55.59	0.035
84130.	55.59	84135.	53.70	0.034
84135.	53.70	84139.	51.95	0.032
84143.	52.81	84146.	54.64	0.035
84154.	52.81	84158.	54.64	0.035
84166.	55.59	84170.	53.70	0.034
84190.	52.81	84193.	54.64	0.035
84213.	54.64	84217.	52.81	0.034
84221.	53.70	84224.	55.59	0.035
84236.	54.64	84239.	57.63	0.055
84239.	57.63	84244.	55.59	0.035
84251.	55.59	84254.	57.63	0.037
84254.	57.63	84259.	55.59	0.035
84262.	54.64	84266.	56.57	0.035
84269.	57.63	84274.	55.59	0.035
84277.	54.64	84281.	57.63	0.055
84284.	58.68	84288.	56.57	0.036
84299.	57.63	84304.	55.59	0.035
84307.	54.64	84311.	56.57	0.035
84322.	55.59	84326.	57.63	0.037
84329.	58.68	84334.	55.59	0.053
84348.	55.59	84352.	53.70	0.034
84352.	53.70	84356.	56.57	0.054
84384.	58.68	84389.	56.57	0.036
84396.	56.57	84399.	58.68	0.037
84399.	58.68	84404.	56.57	0.036
84407.	55.59	84410.	58.68	0.056
84414.	59.78	84418.	57.63	0.036
84422.	56.57	84425.	58.68	0.037
84428.	59.78	84433.	56.57	0.054
84436.	55.59	84440.	57.63	0.037
84443.	58.68	84448.	55.59	0.053
84452.	54.64	84455.	56.57	0.035
84462.	57.63	84466.	55.59	0.035
84466.	55.59	84470.	58.68	0.056
84499.	57.63	84503.	55.59	0.035
84510.	56.57	84514.	58.68	0.037
84521.	56.57	84525.	58.68	0.037
84558.	57.63	84562.	55.59	0.035
84610.	56.57	84613.	58.68	0.037
84613.	58.68	84617.	55.59	0.053
84680.	57.63	84683.	59.78	0.037
84687.	58.68	84691.	56.57	0.036
84695.	57.63	84698.	59.78	0.037
84702.	58.68	84706.	55.59	0.053
84710.	55.59	84713.	58.68	0.056

84716.	59.78	84720.	56.57	0.054
84724.	56.57	84728.	58.68	0.037
84731.	59.78	84735.	56.57	0.054
84739.	55.59	84742.	57.63	0.037
84753.	56.57	84757.	58.68	0.037
84923.	57.63	84926.	59.78	0.037
84930.	58.68	84934.	56.57	0.036
84938.	57.63	84941.	59.78	0.037
84944.	59.78	84949.	56.57	0.054
84952.	56.57	84956.	58.68	0.037
84967.	56.57	84970.	58.68	0.037
84970.	58.68	84975.	56.57	0.036
85011.	56.57	85014.	58.68	0.037
85029.	60.95	85033.	57.63	0.055
85051.	56.57	85054.	59.78	0.057
85072.	60.95	85076.	58.68	0.037
85136.	56.57	85139.	58.68	0.037
85149.	60.95	85152.	63.37	0.040
85156.	63.37	85160.	60.95	0.038
85170.	59.78	85174.	57.63	0.036
85177.	58.68	85180.	60.95	0.039
85248.	58.68	85251.	60.95	0.039
85251.	60.95	85255.	58.68	0.037
85258.	58.68	85262.	60.95	0.039
85269.	59.78	85273.	57.63	0.036
85280.	59.78	85284.	57.63	0.036
85301.	58.68	85304.	60.95	0.039
85359.	62.14	85363.	59.78	0.038
85380.	59.78	85384.	62.14	0.039
85394.	60.95	85397.	63.37	0.040
85456.	62.14	85460.	59.78	0.038
85463.	59.78	85466.	62.14	0.039
85614.	62.14	85617.	59.78	0.038
85638.	62.14	85640.	64.69	0.041
85640.	64.69	85644.	62.14	0.039
85658.	62.14	85662.	59.78	0.038
85662.	59.78	85664.	63.37	0.060
85668.	63.37	85672.	60.95	0.038
85672.	60.95	85674.	63.37	0.040
85681.	64.69	85685.	62.14	0.039
85688.	60.95	85692.	63.37	0.040
85692.	63.37	85695.	60.95	0.038
85732.	63.37	85736.	60.95	0.038
85746.	62.14	85750.	59.78	0.038
85754.	59.78	85757.	62.14	0.039
85767.	60.95	85770.	63.37	0.040
85787.	63.37	85791.	60.95	0.038
85808.	62.14	85811.	64.69	0.041
85818.	63.37	85822.	60.95	0.038
85822.	60.95	85824.	63.37	0.040
85824.	63.37	85828.	60.95	0.038
85842.	62.14	85846.	59.78	0.038
85846.	59.78	85848.	63.37	0.060
85866.	63.37	85870.	59.78	0.057
85870.	59.78	85872.	62.14	0.039
85886.	62.14	85889.	64.69	0.041
85889.	64.69	85893.	62.14	0.039
85906.	63.37	85910.	60.95	0.038
85917.	60.95	85920.	63.37	0.040
85920.	63.37	85924.	59.78	0.057
85927.	59.78	85930.	62.14	0.039
85937.	62.14	85941.	59.78	0.038
85941.	59.78	85944.	63.37	0.060

85965.	59.78	85968.	62.14	0.039
85986.	62.14	85990.	58.68	0.056
86006.	60.95	86010.	63.37	0.040
86026.	63.37	86030.	60.95	0.038
86047.	60.95	86050.	63.37	0.040
86050.	63.37	86054.	60.95	0.038
86061.	60.95	86064.	63.37	0.040
86071.	62.14	86074.	64.69	0.041
86081.	63.37	86085.	60.95	0.038
86085.	60.95	86088.	63.37	0.040
86104.	64.69	86108.	60.95	0.058
86118.	63.37	86122.	60.95	0.038
86125.	60.95	86128.	63.37	0.040
86136.	62.14	86139.	59.78	0.038
86139.	59.78	86142.	62.14	0.039
86197.	63.37	86201.	59.78	0.057
86201.	59.78	86204.	62.14	0.039
86211.	62.14	86215.	59.78	0.038
86218.	60.95	86221.	63.37	0.040
86231.	62.14	86234.	64.69	0.041
86234.	64.69	86238.	62.14	0.039
86245.	60.95	86248.	63.37	0.040
86264.	64.69	86268.	60.95	0.058
86278.	63.37	86282.	60.95	0.038
86285.	60.95	86288.	63.37	0.040
86295.	63.37	86299.	60.95	0.038
86299.	60.95	86302.	63.37	0.040
86302.	63.37	86306.	60.95	0.038
86322.	62.14	86326.	64.69	0.041
86326.	64.69	86329.	62.14	0.039
86356.	64.69	86360.	62.14	0.039
86373.	62.14	86377.	59.78	0.038
86377.	59.78	86380.	62.14	0.039
86404.	60.95	86407.	63.37	0.040
86407.	63.37	86411.	60.95	0.038
86497.	59.78	86500.	62.14	0.039
86528.	62.14	86532.	59.78	0.038
86549.	60.95	86552.	64.69	0.061
86569.	63.37	86573.	60.95	0.038
86610.	62.14	86614.	59.78	0.038
86624.	62.14	86628.	59.78	0.038
86632.	59.78	86635.	62.14	0.039
86635.	62.14	86639.	59.78	0.038
86646.	59.78	86649.	62.14	0.039
86649.	62.14	86653.	59.78	0.038
86656.	58.68	86660.	60.95	0.039
86663.	62.14	86667.	59.78	0.038
86670.	58.68	86674.	60.95	0.039
86684.	59.78	86687.	62.14	0.039
86704.	62.14	86708.	59.78	0.038
86742.	62.14	86746.	59.78	0.038
86757.	60.95	86761.	58.68	0.037
86778.	58.68	86782.	60.95	0.039
86799.	60.95	86803.	58.68	0.037
86807.	58.68	86810.	60.95	0.039
86834.	59.78	86838.	62.14	0.039
87000.	59.78	87003.	62.14	0.039
87003.	62.14	87008.	59.78	0.038
87025.	58.68	87028.	60.95	0.039
87138.	58.68	87141.	60.95	0.039
87163.	57.63	87166.	59.78	0.037
87178.	57.63	87181.	59.78	0.037
87184.	59.78	87188.	57.63	0.036

87206.	59.78	87209.	62.14	0.039
87226.	62.14	87230.	59.78	0.038
87237.	60.95	87241.	58.68	0.037
87248.	58.68	87251.	60.95	0.039
87258.	60.95	87261.	63.37	0.040
87278.	60.95	87282.	58.68	0.037
87286.	59.78	87289.	62.14	0.039
87299.	60.95	87302.	63.37	0.040
87306.	63.37	87310.	60.95	0.038
87313.	60.95	87316.	63.37	0.040
87319.	63.37	87323.	60.95	0.038
87326.	60.95	87330.	63.37	0.040
87358.	60.95	87362.	58.68	0.037
87379.	59.78	87382.	62.14	0.039
87403.	60.95	87407.	58.68	0.037
87407.	58.68	87410.	60.95	0.039
87413.	60.95	87417.	58.68	0.037
87434.	59.78	87438.	62.14	0.039
87441.	62.14	87445.	59.78	0.038
87452.	60.95	87454.	63.37	0.040
87454.	63.37	87458.	60.95	0.038
87462.	60.95	87465.	63.37	0.040
87465.	63.37	87469.	60.95	0.038
87472.	62.14	87476.	59.78	0.038
87476.	59.78	87479.	62.14	0.039
87486.	59.78	87489.	62.14	0.039
87500.	59.78	87503.	62.14	0.039
87520.	64.69	87523.	62.14	0.039
87533.	63.37	87537.	60.95	0.038
87611.	64.69	87615.	62.14	0.039
87625.	62.14	87629.	59.78	0.038
87642.	60.95	87646.	63.37	0.040
87649.	63.37	87652.	66.02	0.042
87652.	66.02	87656.	63.37	0.040
87665.	64.69	87669.	62.14	0.039
87686.	60.95	87689.	64.69	0.061
87699.	64.69	87702.	67.41	0.042
87702.	67.41	87706.	64.69	0.040
87722.	60.95	87726.	63.37	0.040
87736.	62.14	87738.	66.02	0.062
87756.	62.14	87760.	59.78	0.038
87766.	62.14	87769.	64.69	0.041
87769.	64.69	87773.	60.95	0.058
87773.	60.95	87776.	63.37	0.040
87790.	60.95	87792.	66.02	0.083
87792.	66.02	87796.	63.37	0.040
87809.	64.69	87814.	59.78	0.075
87814.	59.78	87816.	62.14	0.039
87830.	59.78	87833.	64.69	0.082
87833.	64.69	87837.	60.95	0.058
87837.	60.95	87840.	63.37	0.040
87847.	64.69	87851.	62.14	0.039
87854.	60.95	87857.	63.37	0.040
87867.	62.14	87870.	64.69	0.041
87884.	62.14	87887.	64.69	0.041
87887.	64.69	87891.	62.14	0.039
87904.	63.37	87908.	60.95	0.038
87908.	60.95	87910.	64.69	0.061
87928.	63.37	87931.	60.95	0.038
87931.	60.95	87934.	63.37	0.040
87948.	62.14	87951.	64.69	0.041
87951.	64.69	87955.	60.95	0.058
87955.	60.95	87958.	63.37	0.040

87961.	63.37	87964.	66.02	0.042
87964.	66.02	87968.	63.37	0.040
87971.	62.14	87974.	64.69	0.041
87981.	64.69	87984.	62.14	0.039
87984.	62.14	87988.	64.69	0.041
88001.	62.14	88004.	64.69	0.041
88004.	64.69	88008.	62.14	0.039
88008.	62.14	88011.	64.69	0.041
88038.	62.14	88041.	66.02	0.062
88041.	66.02	88045.	63.37	0.040
88045.	63.37	88048.	66.02	0.042
88054.	64.69	88058.	62.14	0.039
88062.	60.95	88065.	63.37	0.040
88075.	62.14	88078.	66.02	0.062
88095.	62.14	88099.	59.78	0.038
88119.	63.37	88122.	66.02	0.042
88122.	66.02	88126.	63.37	0.040
88134.	67.41	88139.	63.37	0.060
88148.	63.37	88152.	60.95	0.038
88155.	60.95	88159.	63.37	0.040
88200.	63.37	88203.	60.95	0.038
88216.	62.14	88219.	64.69	0.041
88219.	64.69	88222.	67.41	0.042
88226.	66.02	88229.	63.37	0.040
88239.	64.69	88242.	62.14	0.039
88266.	63.37	88270.	60.95	0.038
88406.	59.78	88409.	62.14	0.039
88419.	62.14	88422.	66.02	0.062
88432.	63.37	88435.	66.02	0.042
88452.	64.69	88456.	62.14	0.039
88476.	60.95	88479.	63.37	0.040
88479.	63.37	88483.	60.95	0.038
88483.	60.95	88486.	63.37	0.040
88493.	63.37	88497.	60.95	0.038
88504.	62.14	88507.	59.78	0.038
88518.	62.14	88521.	59.78	0.038
88521.	59.78	88524.	62.14	0.039
88528.	62.14	88530.	64.69	0.041
88530.	64.69	88534.	62.14	0.039
88551.	60.95	88554.	63.37	0.040
88561.	64.69	88565.	62.14	0.039
88565.	62.14	88568.	64.69	0.041
88582.	60.95	88584.	64.69	0.061
88584.	64.69	88588.	60.95	0.058
88588.	60.95	88591.	63.37	0.040
88598.	64.69	88602.	62.14	0.039
88605.	60.95	88608.	64.69	0.061
88618.	63.37	88621.	66.02	0.042
88621.	66.02	88625.	63.37	0.040
88638.	62.14	88642.	59.78	0.038
88642.	59.78	88645.	63.37	0.060
88663.	62.14	88666.	59.78	0.038
88673.	62.14	88676.	64.69	0.041
88676.	64.69	88680.	62.14	0.039
88696.	62.14	88699.	66.02	0.062
88716.	64.69	88720.	60.95	0.058
88720.	60.95	88722.	63.37	0.040
88729.	64.69	88733.	62.14	0.039
88736.	60.95	88739.	64.69	0.061
88739.	64.69	88743.	60.95	0.058
88750.	60.95	88753.	63.37	0.040
88756.	63.37	88760.	60.95	0.038
88760.	60.95	88763.	64.69	0.061

88777.	62.14	88780.	64.69	0.041
88780.	64.69	88784.	60.95	0.058
88784.	60.95	88786.	63.37	0.040
88796.	64.69	88800.	60.95	0.058
88800.	60.95	88803.	64.69	0.061
88803.	64.69	88807.	62.14	0.039
88817.	60.95	88820.	64.69	0.061
88820.	64.69	88824.	60.95	0.058
88824.	60.95	88827.	63.37	0.040
88837.	64.69	88840.	62.14	0.039
88840.	62.14	88844.	64.69	0.041
88844.	64.69	88848.	60.95	0.058
88864.	60.95	88868.	63.37	0.040
88870.	64.69	88874.	60.95	0.058
88888.	63.37	88891.	60.95	0.038
88891.	60.95	88894.	63.37	0.040
88917.	63.37	88920.	67.41	0.063
88920.	67.41	88924.	64.69	0.040
88937.	64.69	88941.	60.95	0.058
88944.	62.14	88947.	64.69	0.041
88947.	64.69	88950.	62.14	0.039
88957.	62.14	88960.	64.69	0.041
88960.	64.69	88964.	62.14	0.039
88968.	60.95	88970.	63.37	0.040
88981.	60.95	88984.	63.37	0.040
88987.	64.69	88991.	60.95	0.058
88991.	60.95	88994.	63.37	0.040
89004.	64.69	89008.	62.14	0.039
89008.	62.14	89010.	66.02	0.062
89010.	66.02	89014.	63.37	0.040
89024.	62.14	89027.	64.69	0.041
89027.	64.69	89031.	60.95	0.058
89031.	60.95	89034.	63.37	0.040
89048.	62.14	89050.	66.02	0.062
89050.	66.02	89054.	63.37	0.040
89067.	64.69	89071.	60.95	0.058
89071.	60.95	89074.	63.37	0.040
89092.	62.14	89095.	59.78	0.038
89095.	59.78	89098.	62.14	0.039
89102.	60.95	89104.	63.37	0.040
89104.	63.37	89108.	60.95	0.038
89108.	60.95	89112.	63.37	0.040
89125.	60.95	89128.	63.37	0.040
89138.	63.37	89141.	66.02	0.042
89159.	62.14	89162.	59.78	0.038
89190.	60.95	89193.	63.37	0.040
89210.	64.69	89213.	62.14	0.039
89224.	62.14	89227.	59.78	0.038
89248.	62.14	89250.	64.69	0.041
89376.	62.14	89380.	64.69	0.041
89386.	63.37	89390.	60.95	0.038
89390.	60.95	89393.	63.37	0.040
89404.	60.95	89406.	63.37	0.040
89424.	60.95	89428.	58.68	0.037
89428.	58.68	89431.	62.14	0.059
89448.	64.69	89451.	62.14	0.039
89461.	64.69	89465.	62.14	0.039
89478.	62.14	89482.	59.78	0.038
89482.	59.78	89485.	63.37	0.060
89502.	64.69	89506.	60.95	0.058
89516.	62.14	89520.	59.78	0.038
89536.	62.14	89539.	64.69	0.041
89539.	64.69	89543.	60.95	0.058

89543.	60.95	89546.	63.37	0.040
89546.	63.37	89550.	60.95	0.038
89560.	59.78	89564.	62.14	0.039
89564.	62.14	89567.	59.78	0.038
89571.	60.95	89575.	58.68	0.037
89592.	60.95	89594.	64.69	0.061
89594.	64.69	89598.	62.14	0.039
89612.	62.14	89616.	59.78	0.038
89616.	59.78	89618.	63.37	0.060
89636.	63.37	89640.	59.78	0.057
89656.	60.95	89660.	63.37	0.040
89660.	63.37	89664.	60.95	0.038
89680.	60.95	89684.	63.37	0.040
89687.	63.37	89691.	60.95	0.038
89708.	59.78	89711.	62.14	0.039
89714.	62.14	89718.	59.78	0.038
89728.	62.14	89732.	59.78	0.038
89742.	60.95	89747.	57.63	0.055
89750.	57.63	89754.	59.78	0.037
89764.	58.68	89768.	60.95	0.039
89781.	62.14	89785.	59.78	0.038
89802.	59.78	89806.	62.14	0.039
89809.	62.14	89813.	59.78	0.038
89816.	59.78	89819.	62.14	0.039
89864.	63.37	89868.	60.95	0.038
89878.	62.14	89882.	59.78	0.038
89885.	59.78	89888.	62.14	0.039
89888.	62.14	89892.	59.78	0.038
89902.	60.95	89906.	58.68	0.037
89917.	59.78	89921.	57.63	0.036
89924.	58.68	89927.	60.95	0.039
89938.	59.78	89941.	62.14	0.039
89945.	60.95	89949.	58.68	0.037
89952.	59.78	89955.	62.14	0.039
89958.	62.14	89962.	59.78	0.038
89966.	60.95	89969.	63.37	0.040
89972.	62.14	89976.	59.78	0.038
89986.	60.95	89990.	58.68	0.037
89994.	59.78	89997.	62.14	0.039
90008.	59.78	90011.	62.14	0.039
90011.	62.14	90015.	59.78	0.038
90032.	58.68	90036.	60.95	0.039
90053.	62.14	90057.	59.78	0.038
90067.	60.95	90071.	58.68	0.037
90088.	59.78	90092.	62.14	0.039
90120.	59.78	90123.	62.14	0.039
90170.	58.68	90173.	60.95	0.039
90191.	60.95	90195.	58.68	0.037
90205.	60.95	90209.	58.68	0.037
90226.	59.78	90230.	62.14	0.039
90244.	60.95	90248.	58.68	0.037
90280.	59.78	90283.	62.14	0.039
90301.	59.78	90305.	57.63	0.036
90434.	60.95	90438.	58.68	0.037
90449.	57.63	90454.	55.59	0.035
90472.	55.59	90475.	58.68	0.056
90489.	60.95	90494.	58.68	0.037
90512.	56.57	90515.	59.78	0.057
90529.	62.14	90533.	59.78	0.038
90533.	59.78	90537.	57.63	0.036
90617.	58.68	90621.	56.57	0.036
90639.	57.63	90642.	59.78	0.037
90653.	56.68	90656.	60.95	0.039

90660.	60.95	90664.	58.68	0.037
90667.	58.68	90670.	60.95	0.039
90674.	62.14	90678.	59.78	0.038
90681.	58.68	90684.	60.95	0.039
90688.	62.14	90692.	59.78	0.038
90709.	59.78	90712.	62.14	0.039
90737.	59.78	90740.	62.14	0.039
90740.	62.14	90744.	59.78	0.038
90852.	58.68	90856.	60.95	0.039
90872.	63.37	90876.	60.95	0.038
90876.	60.95	90880.	58.68	0.037
90890.	59.78	90894.	57.63	0.036
90894.	57.63	90898.	59.78	0.037
90898.	59.78	90901.	62.14	0.039
90911.	60.95	90914.	63.37	0.040
90928.	63.37	90932.	60.95	0.038
90932.	60.95	90936.	58.68	0.037
90946.	59.78	90950.	57.63	0.036
90950.	57.63	90953.	59.78	0.037
90953.	59.78	90956.	62.14	0.039
90967.	59.78	90970.	62.14	0.039
90970.	62.14	90974.	59.78	0.038
90981.	58.68	90984.	60.95	0.039
91006.	59.78	91009.	62.14	0.039
91026.	60.95	91030.	58.68	0.037
91040.	60.95	91044.	58.68	0.037
91054.	60.95	91058.	58.68	0.037
91093.	60.95	91097.	58.68	0.037
91116.	56.57	91119.	58.68	0.037
91122.	58.68	91126.	56.57	0.036
91126.	56.57	91130.	58.68	0.037
91200.	58.68	91203.	60.95	0.039
91203.	60.95	91208.	57.63	0.055
91225.	57.63	91229.	60.95	0.058
91232.	60.95	91236.	58.68	0.037
91254.	58.68	91257.	60.95	0.039
91260.	62.14	91265.	59.78	0.038
91282.	57.63	91286.	60.95	0.058
91304.	59.78	91308.	57.63	0.036
91311.	57.63	91314.	59.78	0.037
91318.	60.95	91322.	58.68	0.037
91325.	58.68	91328.	60.95	0.039
91340.	57.63	91343.	59.78	0.037
91378.	59.78	91381.	62.14	0.039
91399.	59.78	91403.	57.63	0.036
91420.	58.68	91424.	60.95	0.039
91441.	62.14	91445.	59.78	0.038
91452.	60.95	91456.	58.68	0.037
91462.	58.68	91466.	60.95	0.039
91544.	59.78	91547.	62.14	0.039
91588.	62.14	91592.	59.78	0.038
91616.	62.14	91620.	59.78	0.038
91637.	58.68	91640.	60.95	0.039
91654.	62.14	91657.	64.69	0.041
91657.	64.69	91661.	62.14	0.039
91674.	63.37	91678.	60.95	0.038
91678.	60.95	91681.	63.37	0.040
91681.	63.37	91685.	60.95	0.038
91691.	62.14	91694.	64.69	0.041
91700.	64.69	91704.	67.41	0.042
91746.	66.02	91750.	63.37	0.040
91760.	64.69	91764.	62.14	0.039
91780.	60.95	91783.	64.69	0.061

91794.	63.37	91796.	66.02	0.042
91796.	66.02	91800.	63.37	0.040
91814.	63.37	91817.	60.95	0.038
91817.	60.95	91820.	64.69	0.061
91834.	63.37	91836.	66.02	0.042
91836.	66.02	91840.	62.14	0.059
91840.	62.14	91843.	64.69	0.041
91857.	62.14	91860.	66.02	0.062
91860.	66.02	91863.	63.37	0.040
91876.	64.69	91880.	60.95	0.058
91880.	60.95	91883.	63.37	0.040
91897.	62.14	91900.	66.02	0.062
91900.	66.02	91903.	63.37	0.040
91916.	64.69	91920.	62.14	0.039
91927.	63.37	91930.	60.95	0.038
91930.	60.95	91933.	63.37	0.040
91940.	63.37	91944.	60.95	0.038
91947.	62.14	91950.	64.69	0.041
91950.	64.69	91954.	62.14	0.039
91960.	62.14	91964.	64.69	0.041
91967.	63.37	91971.	60.95	0.038
91977.	62.14	91980.	64.69	0.041
91980.	64.69	91984.	62.14	0.039
91984.	62.14	91987.	64.69	0.041
91994.	64.69	91998.	62.14	0.039
92014.	60.95	92018.	63.37	0.040
92041.	63.37	92044.	66.02	0.042
92044.	66.02	92048.	63.37	0.040
92057.	66.02	92061.	63.37	0.040
92064.	62.14	92067.	64.69	0.041
92077.	62.14	92080.	64.69	0.041
92105.	59.78	92108.	62.14	0.039
92125.	64.69	92129.	60.95	0.058
92129.	60.95	92132.	63.37	0.040
92145.	62.14	92148.	64.69	0.041
92148.	64.69	92152.	60.95	0.058
92170.	59.78	92172.	63.37	0.060
92186.	63.37	92189.	66.02	0.042
92189.	66.02	92192.	63.37	0.040
92224.	60.95	92226.	63.37	0.040
92244.	63.37	92247.	60.95	0.038
92304.	57.63	92306.	59.78	0.037
92324.	63.37	92328.	59.78	0.057
92345.	59.78	92348.	62.14	0.039
92365.	63.37	92369.	60.95	0.038
92372.	60.95	92375.	63.37	0.040
92386.	60.95	92389.	63.37	0.040
92389.	63.37	92393.	60.95	0.038
92403.	62.14	92407.	58.68	0.056
92411.	57.63	92414.	59.78	0.037
92425.	57.63	92428.	60.95	0.058
92445.	62.14	92449.	59.78	0.038
92508.	59.78	92511.	62.14	0.039
92536.	62.14	92542.	59.78	0.038
92553.	60.95	92557.	58.68	0.037
92617.	58.68	92620.	60.95	0.039
92686.	60.95	92692.	58.68	0.037
92692.	58.68	92696.	56.57	0.036
92710.	55.59	92714.	57.63	0.037
92714.	57.63	92717.	59.78	0.037
92732.	59.78	92736.	57.63	0.036
92750.	56.57	92753.	58.68	0.037
92772.	57.63	92776.	55.59	0.035

92779.	56.57	92782.	58.68	0.037
92786.	59.78	92790.	57.63	0.036
92844.	58.68	92848.	56.57	0.036
92852.	56.57	92855.	58.68	0.037
92870.	59.78	92874.	57.63	0.036
92888.	55.59	92892.	57.63	0.037
92892.	57.63	92895.	59.78	0.037
92905.	62.14	92908.	64.69	0.041
92925.	63.37	92929.	60.95	0.038
92939.	59.78	92943.	57.63	0.036
92960.	59.78	92964.	62.14	0.039
93006.	62.14	93010.	59.78	0.038
93020.	60.95	93024.	58.68	0.037
93027.	59.78	93030.	62.14	0.039
93034.	60.95	93038.	58.68	0.037
93041.	59.78	93044.	62.14	0.039
93075.	60.95	93080.	58.68	0.037
93097.	57.63	93101.	59.78	0.037
93111.	60.95	93114.	63.37	0.040
93114.	63.37	93118.	60.95	0.038
93142.	62.14	93146.	59.78	0.038
93162.	60.95	93165.	64.69	0.061
93165.	64.69	93169.	62.14	0.039
93180.	60.95	93182.	63.37	0.040
93182.	63.37	93186.	59.78	0.057
93186.	59.78	93190.	62.14	0.039
93200.	63.37	93203.	60.95	0.038
93203.	60.95	93206.	63.37	0.040
93206.	63.37	93210.	60.95	0.038
93241.	62.14	93244.	64.69	0.041
93254.	62.14	93257.	64.69	0.041
93273.	66.02	93277.	63.37	0.040
93322.	63.37	93326.	60.95	0.038
93333.	59.78	93336.	62.14	0.039
93340.	60.95	93342.	63.37	0.040
93346.	63.37	93349.	66.02	0.042
93349.	66.02	93353.	63.37	0.040
93370.	60.95	93372.	64.69	0.061
93372.	64.69	93376.	62.14	0.039
93383.	62.14	93386.	66.02	0.062
93389.	64.69	93393.	62.14	0.039
93400.	62.14	93402.	64.69	0.041
93402.	64.69	93406.	62.14	0.039
93406.	62.14	93409.	64.69	0.041
93413.	63.37	93416.	66.02	0.042
93416.	66.02	93420.	63.37	0.040
93430.	60.95	93433.	63.37	0.040
93433.	63.37	93436.	60.95	0.038
93436.	60.95	93439.	64.69	0.061
93439.	64.69	93443.	62.14	0.039
93443.	62.14	93446.	64.69	0.041
93460.	62.14	93462.	66.02	0.062
93462.	66.02	93466.	63.37	0.040
93480.	63.37	93483.	60.95	0.038
93490.	60.95	93493.	63.37	0.040
93493.	63.37	93497.	60.95	0.038
93497.	60.95	93500.	63.37	0.040
93504.	62.14	93506.	64.69	0.041
93506.	64.69	93510.	62.14	0.039
93528.	59.78	93531.	62.14	0.039
93541.	62.14	93544.	66.02	0.062
93578.	60.95	93581.	64.69	0.061
93592.	62.14	93595.	64.69	0.041

93598.	63.37	93602.	60.95	0.038
93612.	62.14	93616.	59.78	0.038
93725.	62.14	93728.	64.69	0.041
93728.	64.69	93732.	62.14	0.039
93736.	62.14	93739.	59.78	0.038
93739.	59.78	93742.	62.14	0.039
93759.	63.37	93763.	60.95	0.038
93770.	60.95	93773.	63.37	0.040
93773.	63.37	93777.	60.95	0.038
93780.	60.95	93783.	63.37	0.040
93783.	63.37	93787.	60.95	0.038
93787.	60.95	93790.	63.37	0.040
93790.	63.37	93794.	59.78	0.057
93794.	59.78	93797.	62.14	0.039
93804.	59.78	93807.	63.37	0.060
93807.	63.37	93811.	60.95	0.038
93824.	63.37	93828.	60.95	0.038
93924.	59.78	93928.	62.14	0.039
93931.	62.14	93935.	59.78	0.038
93952.	59.78	93956.	62.14	0.039
93973.	62.14	93977.	59.78	0.038
93980.	59.78	93983.	62.14	0.039
93987.	60.95	93991.	58.68	0.037
93994.	59.78	93997.	62.14	0.039
94116.	59.78	94119.	62.14	0.039
94133.	63.37	94137.	60.95	0.038
94154.	59.78	94157.	62.14	0.039
94160.	63.37	94164.	60.95	0.038
94182.	59.78	94185.	62.14	0.039
94251.	58.68	94254.	60.95	0.039
94266.	57.63	94269.	59.78	0.037
94333.	57.63	94336.	59.78	0.037
94354.	62.14	94358.	59.78	0.038
94390.	57.63	94393.	59.78	0.037
94400.	60.95	94403.	63.37	0.040
94407.	63.37	94411.	60.95	0.038
94422.	58.68	94426.	56.57	0.036
94458.	57.63	94462.	59.78	0.037
94465.	59.78	94470.	57.63	0.036
94473.	57.63	94476.	59.78	0.037
94480.	58.68	94484.	55.59	0.053
94488.	56.57	94491.	58.68	0.037
94495.	57.63	94499.	55.59	0.035
94502.	56.57	94506.	58.68	0.037
94506.	58.68	94510.	56.57	0.036
94528.	58.68	94531.	60.95	0.039
94548.	62.14	94552.	59.78	0.038
94614.	57.63	94617.	59.78	0.037
94632.	58.68	94636.	56.57	0.036
94640.	56.57	94643.	58.68	0.037
94661.	58.68	94665.	56.57	0.036
94668.	56.57	94672.	58.68	0.037
94675.	59.78	94680.	57.63	0.036
94742.	56.57	94745.	58.68	0.037
94767.	57.63	94770.	59.78	0.037
94774.	58.68	94778.	55.59	0.053
94782.	55.59	94786.	57.63	0.037
94789.	58.68	94793.	56.57	0.036
94796.	56.57	94800.	58.68	0.037
94807.	59.78	94811.	57.63	0.036
94885.	55.59	94889.	57.63	0.037
94889.	57.63	94893.	55.59	0.035
94897.	56.57	94900.	58.68	0.037

94903.	59.78	94908.	56.57	0.054
94911.	56.57	94914.	59.78	0.057
94918.	60.95	94922.	57.63	0.055
94926.	56.57	94929.	58.68	0.037
94932.	59.78	94937.	56.57	0.054
94940.	55.59	94944.	57.63	0.037
94951.	58.68	94955.	56.57	0.036
94955.	56.57	94958.	58.68	0.037
94973.	57.63	94976.	59.78	0.037
94976.	59.78	94980.	57.63	0.036
94991.	58.68	94995.	56.57	0.036
94999.	55.59	95002.	57.63	0.037
95014.	55.59	95017.	58.68	0.056
95017.	58.68	95021.	56.57	0.036
95028.	56.57	95032.	58.68	0.037
95032.	58.68	95036.	56.57	0.036
95040.	55.59	95043.	58.68	0.056
95046.	59.78	95050.	57.63	0.036
95054.	56.57	95057.	59.78	0.057
95061.	59.78	95065.	56.57	0.054
95068.	56.57	95072.	59.78	0.057
95076.	58.68	95080.	56.57	0.036
95083.	57.63	95086.	59.78	0.037
95090.	58.68	95094.	56.57	0.036
95109.	56.57	95113.	54.64	0.034
95191.	57.63	95196.	54.64	0.052
95199.	55.59	95202.	57.63	0.037
95206.	57.63	95210.	55.59	0.035
95214.	54.64	95218.	57.63	0.055
95236.	58.68	95240.	56.57	0.036
95243.	56.57	95246.	58.68	0.037
95246.	58.68	95251.	56.57	0.036
95262.	58.68	95266.	56.57	0.036
95269.	56.57	95272.	58.68	0.037
95276.	57.63	95280.	55.59	0.035
95280.	55.59	95284.	57.63	0.037
95287.	58.68	95291.	56.57	0.036
95295.	55.59	95298.	57.63	0.037
95310.	55.59	95313.	57.63	0.037
95317.	58.68	95321.	56.57	0.036
95328.	57.63	95331.	59.78	0.037
95335.	58.68	95339.	56.57	0.036
95343.	57.63	95346.	59.78	0.037
95364.	59.78	95368.	57.63	0.036
95379.	56.57	95382.	58.68	0.037
95385.	59.78	95388.	62.14	0.039
95403.	60.95	95407.	58.68	0.037
95425.	57.63	95428.	59.78	0.037
95445.	63.37	95449.	60.95	0.038
95459.	59.78	95463.	57.63	0.036
95467.	57.63	95470.	59.78	0.037
95481.	58.68	95484.	60.95	0.039
95488.	60.95	95492.	58.68	0.037
95495.	58.68	95498.	60.95	0.039
95509.	59.78	95512.	62.14	0.039
95512.	62.14	95516.	59.78	0.038
95534.	58.68	95537.	60.95	0.039
95603.	59.78	95606.	62.14	0.039
95616.	62.14	95619.	64.69	0.041
95633.	63.37	95637.	60.95	0.038
95661.	60.95	95684.	63.37	0.040
95688.	62.14	95692.	59.78	0.038
95708.	62.14	95711.	64.69	0.041

95714.	64.69	95718.	62.14	0.039
95725.	63.37	95729.	60.95	0.038
95735.	60.95	95738.	63.37	0.040
95746.	60.95	95748.	64.69	0.061
95762.	63.37	95765.	66.02	0.042
95765.	66.02	95769.	62.14	0.059
95792.	62.14	95796.	59.78	0.038
95813.	60.95	95816.	63.37	0.040
95820.	63.37	95824.	60.95	0.038
95840.	62.14	95844.	64.69	0.041
95857.	63.37	95861.	60.95	0.038
95878.	60.95	95881.	63.37	0.040
95884.	63.37	95888.	60.95	0.038
95953.	62.14	95957.	59.78	0.038
95964.	60.95	95968.	58.68	0.037
95968.	58.68	95971.	60.95	0.039
95974.	59.78	95978.	62.14	0.039
95991.	62.14	95996.	59.78	0.038
96006.	59.78	96010.	57.63	0.036
96013.	57.63	96016.	60.95	0.058
96027.	59.78	96030.	62.14	0.039
96121.	59.78	96124.	62.14	0.039
96142.	60.95	96146.	58.68	0.037
96155.	62.14	96159.	59.78	0.038
96162.	60.95	96166.	63.37	0.040
96169.	63.37	96173.	60.95	0.038
96176.	59.78	96180.	62.14	0.039
96183.	62.14	96187.	59.78	0.038
96190.	58.68	96194.	60.95	0.039
96215.	58.68	96218.	60.95	0.039
96236.	62.14	96240.	59.78	0.038
96250.	60.95	96254.	58.68	0.037
96257.	58.68	96260.	60.95	0.039
96267.	60.95	96271.	58.68	0.037
96278.	60.95	96282.	58.68	0.037
96345.	60.95	96349.	58.68	0.037
96398.	59.78	96401.	62.14	0.039
96504.	58.68	96507.	60.95	0.039
96525.	59.78	96529.	57.63	0.036
96540.	58.68	96544.	56.57	0.036
96547.	56.57	96550.	58.68	0.037
96578.	60.95	96582.	58.68	0.037
96593.	60.95	96597.	58.68	0.037
96600.	57.63	96604.	59.78	0.037
96621.	60.95	96625.	58.68	0.037
96628.	58.68	96632.	60.95	0.039
96684.	58.68	96687.	60.95	0.039
96709.	57.63	96712.	59.78	0.037
96723.	58.68	96726.	60.95	0.039
96730.	60.95	96734.	58.68	0.037
96794.	58.68	96797.	60.95	0.039
96797.	60.95	96801.	58.68	0.037
96825.	60.95	96829.	58.68	0.037
96847.	58.68	96850.	60.95	0.039
96867.	62.14	96871.	59.78	0.038
96881.	62.14	96885.	59.78	0.038
96886.	59.78	96892.	62.14	0.039
96948.	62.14	96952.	59.78	0.038
96969.	59.78	96972.	62.14	0.039
96990.	60.95	96994.	58.68	0.037
97028.	60.95	97032.	58.68	0.037
97042.	62.14	97046.	59.78	0.038
97050.	58.68	97053.	60.95	0.039

97070.	60.95	97074.	58.68	0.037
97106.	58.68	97109.	60.95	0.039
97126.	62.14	97130.	59.78	0.038
97140.	60.95	97144.	58.68	0.037
97148.	59.78	97151.	62.14	0.039
97162.	59.78	97165.	62.14	0.039
97165.	62.14	97169.	59.78	0.038
97200.	58.68	97204.	60.95	0.039
97221.	62.14	97225.	59.78	0.038
97235.	60.95	97239.	58.68	0.037
97257.	58.68	97260.	60.95	0.039
97370.	63.37	97375.	59.78	0.057
97385.	60.95	97389.	58.68	0.037
97392.	58.68	97395.	62.14	0.059
97406.	59.78	97409.	62.14	0.039
97409.	62.14	97413.	59.78	0.038
97417.	58.68	97420.	60.95	0.039
97423.	62.14	97427.	59.78	0.038
97437.	62.14	97441.	59.78	0.038
97444.	59.78	97448.	62.14	0.039
97458.	60.95	97461.	63.37	0.040
97492.	62.14	97496.	59.78	0.038
97571.	62.14	97575.	59.78	0.038
97599.	62.14	97603.	59.78	0.038
97620.	60.95	97623.	63.37	0.040
97623.	63.37	97627.	60.95	0.038
97637.	63.37	97641.	60.95	0.038
97644.	59.78	97648.	62.14	0.039
97651.	62.14	97655.	59.78	0.038
97658.	58.68	97662.	60.95	0.039
97672.	59.78	97675.	62.14	0.039
97744.	62.14	97748.	59.78	0.038
97758.	60.95	97762.	58.68	0.037
97766.	58.68	97769.	62.14	0.059
97780.	59.78	97783.	62.14	0.039
97786.	63.37	97790.	59.78	0.057
97794.	58.68	97797.	60.95	0.039
97800.	62.14	97804.	59.78	0.038
97808.	58.68	97811.	60.95	0.039
97814.	62.14	97818.	59.78	0.038
97822.	58.68	97825.	60.95	0.039
97828.	62.14	97832.	59.78	0.038
97836.	58.68	97839.	60.95	0.039
97856.	62.14	97860.	59.78	0.038
97877.	59.78	97880.	62.14	0.039
97880.	62.14	97884.	59.78	0.038
97895.	60.95	97899.	58.68	0.037
97916.	58.68	97920.	60.95	0.039
97987.	58.68	97990.	60.95	0.039
98012.	57.63	98015.	59.78	0.037
98033.	59.78	98037.	57.63	0.036
98041.	57.63	98044.	59.78	0.037
98062.	60.95	98066.	58.68	0.037
98098.	58.68	98101.	60.95	0.039
98114.	63.37	98118.	60.95	0.038
98129.	58.68	98133.	56.57	0.036
98137.	56.57	98140.	58.68	0.037
98158.	58.68	98162.	56.57	0.036
98218.	57.63	98222.	55.59	0.035
98240.	55.59	98244.	57.63	0.037
98252.	56.57	98255.	58.68	0.037
98265.	60.95	98268.	63.37	0.040
98271.	64.69	98275.	62.14	0.039

98286.	59.78	98290.	56.57	0.054
98308.	56.57	98312.	59.78	0.057
98330.	58.68	98334.	56.57	0.036
98337.	57.63	98340.	59.78	0.037
98354.	62.14	98358.	59.78	0.038
98412.	59.78	98416.	57.63	0.036
98427.	58.68	98431.	56.57	0.036
98449.	56.57	98453.	58.68	0.037
98482.	58.68	98486.	55.59	0.053
98490.	55.59	98493.	57.63	0.037
98496.	58.68	98501.	55.59	0.053
98504.	55.59	98508.	57.63	0.037
98516.	57.63	98519.	55.59	0.035
98519.	55.59	98523.	57.63	0.037
98526.	58.68	98530.	56.57	0.036
98534.	55.59	98538.	57.63	0.037
98541.	58.68	98545.	56.57	0.036
98549.	55.59	98552.	58.68	0.056
98604.	56.57	98608.	54.64	0.034
98608.	54.64	98612.	56.57	0.035
98619.	55.59	98622.	58.68	0.056
98622.	58.68	98626.	56.57	0.036
98641.	57.63	98646.	54.64	0.052
98646.	54.64	98649.	56.57	0.035
98656.	57.63	98661.	55.59	0.035
98664.	54.64	98668.	57.63	0.055
98668.	57.63	98672.	55.59	0.035
98679.	55.59	98682.	58.68	0.056
98686.	57.63	98690.	55.59	0.035
98698.	55.59	98701.	57.63	0.037
98701.	57.63	98706.	53.70	0.068
98713.	55.59	98716.	57.63	0.037
98716.	57.63	98721.	55.59	0.035
98721.	55.59	98725.	53.70	0.034
98725.	53.70	98728.	56.57	0.054
98736.	55.59	98740.	53.70	0.034
98740.	53.70	98744.	55.59	0.035
98788.	57.63	98793.	55.59	0.035
98797.	54.64	98800.	56.57	0.035
98800.	56.57	98804.	54.64	0.034
98808.	54.64	98812.	52.81	0.034
98812.	52.81	98816.	56.57	0.071
98835.	56.57	98839.	53.70	0.051
98839.	53.70	98842.	55.59	0.035
98858.	55.59	98861.	58.68	0.056
98861.	58.68	98865.	55.59	0.053
98892.	55.59	98896.	53.70	0.034
98920.	54.64	98923.	56.57	0.035
98969.	54.64	98974.	52.81	0.034
98985.	52.81	98989.	54.64	0.035
99074.	54.64	99078.	52.81	0.034
99090.	54.64	99094.	52.81	0.034
99118.	54.64	99122.	52.81	0.034
99134.	53.70	99138.	51.95	0.032
99142.	52.81	99145.	54.64	0.035
99145.	54.64	99150.	52.81	0.034
99150.	52.81	99154.	51.10	0.032
99154.	51.10	99158.	52.81	0.034
99158.	52.81	99161.	54.64	0.035
99165.	54.64	99169.	52.81	0.034
99173.	53.70	99177.	55.59	0.035
99180.	55.59	99185.	53.70	0.034
99236.	52.81	99239.	54.64	0.035

99255.	54.64	99260.	52.81	0.034
99267.	51.95	99271.	53.70	0.034
99278.	53.70	99282.	56.57	0.054
99298.	54.64	99302.	52.81	0.034
99302.	52.81	99307.	51.10	0.032
99326.	52.81	99330.	54.64	0.035
99350.	54.64	99354.	52.81	0.034
99389.	53.70	99393.	55.59	0.035
99408.	55.59	99413.	52.81	0.050
99434.	50.29	99438.	51.95	0.033
99449.	53.70	99452.	55.59	0.035
99527.	56.57	99531.	54.64	0.034
99543.	53.70	99548.	51.95	0.032
99568.	50.29	99572.	52.81	0.050
99591.	54.64	99596.	51.95	0.049
99616.	51.10	99620.	53.70	0.051
99640.	53.70	99644.	51.95	0.032
99668.	53.70	99672.	51.95	0.032
99708.	51.10	99712.	52.81	0.034
99712.	52.81	99716.	51.10	0.032
99732.	51.95	99737.	50.29	0.032
99737.	50.29	99741.	51.95	0.033
99757.	51.10	99761.	52.81	0.034
99794.	51.95	99798.	50.29	0.032
99806.	51.10	99810.	52.81	0.034
99810.	52.81	99814.	51.10	0.032
99818.	51.10	99822.	52.81	0.034
99842.	53.70	99847.	51.95	0.032
99858.	52.81	99863.	51.10	0.032
99867.	50.29	99871.	52.81	0.050
99875.	52.81	99880.	51.10	0.032
99883.	51.10	99887.	52.81	0.034
99892.	51.95	99896.	50.29	0.032
99958.	50.29	99962.	48.74	0.031
99962.	48.74	99966.	50.29	0.032
99975.	48.74	99979.	50.29	0.032
99979.	50.29	99982.	51.95	0.033
100003.	51.95	100008.	49.52	0.047
100012.	50.29	100016.	51.95	0.033
100024.	51.10	100029.	49.52	0.031
100029.	49.52	100033.	51.10	0.032
100036.	51.95	100041.	49.52	0.047
100041.	49.52	100045.	51.10	0.032
100053.	51.95	100058.	50.29	0.032
100062.	49.52	100066.	51.95	0.049
100066.	51.95	100070.	49.52	0.047
100070.	49.52	100074.	51.10	0.032
100078.	50.29	100082.	51.95	0.033
100091.	50.29	100094.	52.81	0.050
100094.	52.81	100099.	51.10	0.032
100115.	51.95	100120.	49.52	0.047
100120.	49.52	100124.	51.10	0.032
100140.	50.29	100144.	52.81	0.050
100144.	52.81	100148.	51.10	0.032
100166.	50.29	100170.	48.74	0.031
100178.	49.52	100182.	51.10	0.032
100182.	51.10	100187.	49.52	0.031
100187.	49.52	100190.	51.10	0.032
100212.	51.10	100216.	49.52	0.031
100224.	49.52	100228.	51.10	0.032
100228.	51.10	100233.	49.52	0.031
100233.	49.52	100236.	51.10	0.032
100245.	51.95	100250.	50.29	0.032

100287.	49.52	100291.	51.95	0.049
100311.	52.81	100316.	51.10	0.032
100328.	51.10	100333.	49.52	0.031
100354.	49.52	100358.	51.10	0.032
100358.	51.10	100362.	49.52	0.031
100370.	49.52	100374.	51.10	0.032
100374.	51.10	100379.	49.52	0.031
100400.	48.74	100404.	50.29	0.032
100413.	49.52	100416.	51.10	0.032
100458.	51.95	100463.	50.29	0.032
100476.	50.29	100480.	48.74	0.031
100485.	48.01	100489.	49.52	0.031
100489.	49.52	100494.	48.01	0.030
100502.	48.01	100506.	49.52	0.031
100515.	48.74	100519.	50.29	0.032
100523.	50.29	100528.	48.74	0.031
100540.	49.52	100545.	48.01	0.030
100550.	48.01	100553.	50.29	0.048
100574.	51.95	100578.	50.29	0.032
100616.	49.52	100620.	51.10	0.032
100620.	51.10	100624.	49.52	0.031
100671.	51.10	100676.	49.52	0.031
100696.	50.29	100700.	51.95	0.033
100700.	51.95	100704.	50.29	0.032
100704.	50.29	100709.	48.74	0.031
100713.	48.01	100717.	50.29	0.048
100730.	50.29	100734.	51.95	0.033
100738.	51.95	100742.	50.29	0.032
100754.	51.10	100759.	49.52	0.031
100780.	49.52	100784.	51.95	0.049
100784.	51.95	100788.	50.29	0.032
100797.	48.74	100801.	50.29	0.032
100805.	50.29	100810.	48.74	0.031
100810.	48.74	100813.	51.10	0.048
100834.	51.10	100839.	48.74	0.046
100869.	49.52	100874.	48.01	0.030
100878.	48.74	100882.	50.29	0.032
100904.	49.52	100908.	48.01	0.030
100913.	48.01	100917.	49.52	0.031
100947.	49.52	100950.	51.10	0.032
100950.	51.10	100955.	49.52	0.031
100960.	49.52	100963.	51.10	0.032
100984.	51.95	100988.	50.29	0.032
101014.	49.52	101018.	51.10	0.032
101018.	51.10	101023.	49.52	0.031
101035.	50.29	101040.	48.74	0.031
101044.	48.74	101048.	50.29	0.032
101061.	49.52	101064.	51.95	0.049
101098.	51.10	101103.	48.74	0.046
101124.	49.52	101128.	51.10	0.032
101141.	48.74	101144.	50.29	0.032
101157.	50.29	101161.	51.95	0.033
101165.	51.95	101170.	50.29	0.032
101174.	50.29	101178.	51.95	0.033
101182.	51.10	101186.	49.52	0.031
101199.	50.29	101204.	48.74	0.031
101237.	50.29	101241.	51.95	0.033
101262.	51.95	101266.	49.52	0.047
101266.	49.52	101270.	51.10	0.032
101287.	50.29	101290.	52.81	0.050
101290.	52.81	101295.	51.10	0.032
101311.	51.95	101316.	49.52	0.047
101320.	50.29	101324.	51.95	0.033

101332.	51.10	101337.	49.52	0.031
101337.	49.52	101341.	51.10	0.032
101344.	51.95	101349.	49.52	0.047
101349.	49.52	101353.	51.10	0.032
101370.	50.29	101374.	51.95	0.033
101374.	51.95	101378.	50.29	0.032
101382.	51.10	101386.	52.81	0.034
101407.	51.10	101411.	49.52	0.031
101415.	50.29	101419.	51.95	0.033
101440.	51.95	101444.	50.29	0.032
101448.	50.29	101452.	52.81	0.050
101452.	52.81	101456.	51.10	0.032
101473.	51.10	101477.	49.52	0.031
101481.	50.29	101485.	51.95	0.033
101506.	51.10	101510.	49.52	0.031
101514.	50.29	101518.	51.95	0.033
101539.	51.10	101544.	49.52	0.031
101544.	49.52	101548.	51.10	0.032
101572.	51.10	101577.	49.52	0.031
101577.	49.52	101581.	51.10	0.032
101584.	51.10	101589.	49.52	0.031
101593.	50.29	101597.	51.95	0.033
101601.	52.81	101606.	51.10	0.032
101609.	51.10	101613.	52.81	0.034
101613.	52.81	101618.	51.10	0.032
101618.	51.10	101622.	49.52	0.031
101676.	51.10	101680.	52.81	0.034
101680.	52.81	101685.	51.10	0.032
101692.	51.95	101696.	53.70	0.034
101696.	53.70	101701.	51.95	0.032
101705.	51.10	101709.	52.81	0.034
101712.	53.70	101717.	51.10	0.048
101721.	50.29	101725.	52.81	0.050
101728.	53.70	101733.	51.95	0.032
101737.	51.10	101741.	53.70	0.051
101744.	54.64	101749.	52.81	0.034
101753.	51.95	101757.	53.70	0.034
101764.	53.70	101769.	51.95	0.032
101797.	51.95	101801.	53.70	0.034
101805.	52.81	101810.	51.10	0.032
101829.	51.95	101833.	53.70	0.034
101853.	53.70	101858.	51.95	0.032
101870.	52.81	101874.	51.10	0.032
101878.	51.10	101882.	52.81	0.034
101886.	52.81	101890.	51.10	0.032
101910.	51.10	101914.	52.81	0.034
101914.	52.81	101919.	51.10	0.032
101931.	51.95	101936.	50.29	0.032
101939.	51.10	101943.	52.81	0.034
101947.	52.81	101952.	51.10	0.032
101972.	51.10	101976.	52.81	0.034
101980.	52.81	101985.	51.10	0.032
102003.	51.10	102009.	52.81	0.034
102045.	53.70	102049.	51.95	0.032
102057.	51.95	102062.	50.29	0.032
102070.	51.10	102073.	52.81	0.034
102090.	53.70	102094.	51.95	0.032
102114.	51.95	102118.	53.70	0.034
102121.	53.70	102126.	51.95	0.032
102130.	51.95	102134.	54.64	0.052
102138.	53.70	102142.	51.10	0.048
102146.	50.29	102150.	52.81	0.050
102154.	51.95	102159.	50.29	0.032

102187.	51.10	102192.	49.52	0.031
102214.	48.01	102217.	51.10	0.064
102242.	50.29	102246.	52.81	0.050
102246.	52.81	102250.	51.10	0.032
102267.	51.10	102272.	49.52	0.031
102280.	50.29	102284.	51.95	0.033
102284.	51.95	102288.	50.29	0.032
102296.	51.10	102300.	52.81	0.034
102300.	52.81	102305.	51.10	0.032
102305.	51.10	102309.	49.52	0.031
102309.	49.52	102313.	51.10	0.032
102322.	50.29	102326.	48.74	0.031
102326.	46.74	102330.	50.29	0.032
102356.	49.52	102359.	51.95	0.049
102376.	51.10	102380.	52.81	0.034
102380.	52.81	102384.	50.29	0.048
102389.	50.29	102392.	51.95	0.033
102392.	51.95	102397.	49.52	0.047
102406.	48.74	102410.	50.29	0.032
102414.	50.29	102419.	48.01	0.045
102419.	48.01	102423.	49.52	0.031
102431.	50.29	102436.	48.74	0.031
102440.	48.74	102444.	50.29	0.032
102453.	49.52	102457.	48.01	0.030
102457.	48.01	102461.	49.52	0.031
102465.	50.29	102470.	48.74	0.031
102474.	48.01	102478.	49.52	0.031
102504.	48.74	102508.	50.29	0.032
102513.	50.29	102518.	48.74	0.031
102530.	49.52	102536.	46.59	0.059
102548.	48.74	102553.	47.30	0.030
102557.	46.59	102561.	49.52	0.062
102574.	48.01	102578.	49.52	0.031
102582.	50.29	102588.	48.01	0.045
102608.	48.74	102612.	51.10	0.048
102630.	49.52	102635.	48.01	0.030
102656.	48.74	102660.	50.29	0.032
102681.	50.29	102686.	48.74	0.031
102708.	48.01	102712.	49.52	0.031
102716.	50.29	102720.	48.74	0.031
102724.	48.74	102728.	50.29	0.032
102733.	50.29	102738.	48.74	0.031
102750.	49.52	102755.	48.01	0.030
102759.	48.74	102763.	50.29	0.032
102776.	49.52	102780.	51.10	0.032
102821.	50.29	102825.	52.81	0.050
102846.	51.95	102850.	49.52	0.047
102850.	49.52	102854.	51.10	0.032
102871.	50.29	102874.	52.81	0.050
102874.	52.81	102879.	51.10	0.032
102896.	51.10	102900.	49.52	0.031
102904.	50.29	102908.	51.95	0.033
102929.	51.10	102933.	49.52	0.031
102937.	50.29	102941.	51.95	0.033
102941.	51.95	102946.	49.52	0.047
102946.	49.52	102949.	51.10	0.032
103007.	52.81	103012.	51.10	0.032
103016.	50.29	103020.	51.95	0.033
103020.	51.95	103024.	50.29	0.032
103040.	51.95	103045.	49.52	0.047
103054.	50.29	103058.	48.74	0.031
103087.	50.29	103092.	48.74	0.031
103122.	50.29	103127.	46.01	0.045

103131.	47.30	103135.	48.74	0.030
103140.	48.01	103145.	46.59	0.030
103149.	45.92	103154.	47.30	0.030
103158.	48.01	103162.	46.59	0.030
103166.	47.30	103170.	49.52	0.047
103183.	49.52	103189.	48.01	0.030
103193.	48.01	103198.	46.59	0.030
103211.	45.27	103216.	46.59	0.029
103238.	47.30	103242.	48.74	0.030
103242.	48.74	103247.	47.30	0.030
103265.	47.30	103270.	45.92	0.029
103270.	45.92	103274.	47.30	0.030
103278.	47.30	103283.	45.27	0.043
103283.	45.27	103287.	46.59	0.029
103306.	45.92	103310.	48.01	0.045
103310.	48.01	103314.	46.59	0.030
103332.	47.30	103338.	45.27	0.043
103338.	45.27	103342.	46.59	0.029
103351.	47.30	103356.	45.92	0.029
103360.	45.27	103365.	46.59	0.029
103365.	46.59	103370.	45.27	0.028
103378.	45.92	103382.	48.01	0.045
103382.	48.01	103388.	46.59	0.030
103392.	46.59	103396.	48.01	0.030
103400.	48.74	103405.	47.30	0.030
103410.	46.59	103414.	48.01	0.030
103427.	46.59	103432.	48.01	0.030
103436.	48.01	103441.	46.59	0.030
103464.	45.92	103468.	47.30	0.030
103481.	47.30	103485.	48.74	0.030
103499.	47.30	103503.	48.74	0.030
103507.	49.52	103512.	48.01	0.030
103533.	48.01	103537.	49.52	0.031
103537.	49.52	103542.	48.01	0.030
103546.	48.01	103550.	49.52	0.031
103554.	50.29	103559.	48.74	0.031
103572.	50.29	103576.	48.74	0.031
103598.	47.30	103602.	48.74	0.030
103615.	48.74	103619.	50.29	0.032
103653.	51.10	103658.	49.52	0.031
103670.	50.29	103676.	47.30	0.060
103688.	48.74	103693.	47.30	0.030
103697.	47.30	103701.	50.29	0.063
103722.	50.29	103727.	48.74	0.031
103749.	47.30	103753.	48.74	0.030
103757.	49.52	103762.	48.01	0.030
103766.	48.01	103770.	49.52	0.031
103783.	48.01	103787.	49.52	0.031
103791.	50.29	103796.	48.74	0.031
103822.	48.74	103827.	47.30	0.030
103848.	48.01	103852.	49.52	0.031
103873.	51.10	103878.	49.52	0.031
103891.	49.52	103896.	48.01	0.030
103908.	48.01	103914.	46.59	0.030
103935.	47.30	103940.	48.74	0.030
103983.	48.01	103987.	49.52	0.031
104017.	49.52	104021.	51.10	0.032
104042.	50.29	104047.	48.74	0.031
104059.	50.29	104064.	48.74	0.031
104068.	48.74	104072.	50.29	0.032
104085.	48.74	104089.	50.29	0.032
104093.	50.29	104098.	48.74	0.031
104132.	48.74	104136.	50.29	0.032

104192.	49.52	104196.	48.01	0.030
104235.	48.01	104239.	50.29	0.048
104239.	50.29	104244.	48.74	0.031
104268.	51.10	104272.	52.81	0.034
104272.	52.81	104277.	50.29	0.048
104285.	51.10	104290.	49.52	0.031
104298.	48.01	104302.	49.52	0.031
104323.	51.10	104328.	49.52	0.031
104382.	50.29	104385.	52.81	0.050
104385.	52.81	104390.	50.29	0.048
104390.	50.29	104394.	51.95	0.033
104410.	50.29	104414.	52.81	0.050
104414.	52.81	104418.	51.10	0.032
104435.	51.95	104439.	50.29	0.032
104443.	51.10	104447.	52.81	0.034
104476.	51.10	104480.	52.81	0.034
104484.	51.95	104489.	50.29	0.032
104509.	50.29	104513.	52.81	0.050
104538.	51.10	104542.	49.52	0.031
104542.	49.52	104546.	51.10	0.032
104546.	51.10	104550.	49.52	0.031
104554.	50.29	104558.	51.95	0.033
104578.	53.70	104582.	51.95	0.032
104582.	51.95	104587.	50.29	0.032
104587.	50.29	104591.	51.95	0.033
104607.	51.10	104611.	52.81	0.034
104611.	52.81	104616.	51.10	0.032
104620.	51.10	104623.	52.81	0.034
104627.	52.81	104632.	51.10	0.032
104636.	51.10	104639.	53.70	0.051
104644.	52.81	104648.	51.10	0.032
104652.	51.95	104656.	53.70	0.034
104660.	52.81	104664.	51.10	0.032
104672.	51.95	104677.	50.29	0.032
104693.	50.29	104697.	51.95	0.033
104701.	52.81	104705.	51.10	0.032
104710.	50.29	104713.	51.95	0.033
104717.	52.81	104722.	51.10	0.032
104726.	50.29	104730.	51.95	0.033
104734.	52.81	104738.	51.10	0.032
104742.	50.29	104746.	51.95	0.033
104746.	51.95	104750.	53.70	0.034
104754.	52.81	104758.	51.10	0.032
104762.	51.95	104766.	53.70	0.034
104770.	53.70	104774.	51.10	0.048
104778.	51.10	104782.	52.81	0.034
104786.	53.70	104790.	51.95	0.032
104794.	51.10	104798.	52.81	0.034
104823.	51.10	104827.	52.81	0.034
104831.	52.81	104836.	51.10	0.032
104896.	52.81	104900.	51.10	0.032
104904.	51.10	104907.	52.81	0.034
104907.	52.81	104911.	54.64	0.035
104927.	53.70	104932.	51.95	0.032
104956.	52.81	104960.	51.10	0.032
104980.	51.10	104984.	53.70	0.051
105004.	54.64	105009.	51.10	0.064
105028.	52.81	105032.	55.59	0.053
105036.	54.64	105040.	52.81	0.034
105052.	51.95	105057.	50.29	0.032
105077.	51.10	105081.	52.81	0.034
105092.	53.70	105096.	55.59	0.035
105104.	53.59	105107.	57.64	0.037

105126.	57.63	105130.	55.59	0.035
105141.	56.57	105145.	54.64	0.034
105149.	54.64	105152.	56.57	0.035
105156.	55.59	105161.	53.70	0.034
105172.	53.70	105177.	51.95	0.032
105180.	52.81	105184.	54.64	0.035
105204.	53.70	105208.	51.95	0.032
105216.	51.10	105222.	48.74	0.046
105222.	48.74	105225.	50.29	0.032
105242.	49.52	105246.	52.81	0.066
105246.	52.81	105250.	51.10	0.032
105266.	51.95	105271.	49.52	0.047
105292.	48.74	105296.	50.29	0.032
105300.	51.10	105306.	48.74	0.046
105318.	49.52	105323.	47.30	0.045
105328.	46.59	105332.	48.01	0.030
105404.	47.30	105410.	45.92	0.029
105428.	45.27	105433.	44.01	0.028
105433.	44.01	105438.	45.27	0.029
105462.	44.62	105467.	42.81	0.041
105472.	43.41	105476.	44.62	0.028
105490.	44.01	105495.	45.92	0.043
105500.	45.27	105505.	43.41	0.041
105505.	43.41	105510.	42.24	0.027
105515.	42.81	105521.	41.69	0.026
105556.	42.24	105561.	40.62	0.038
105566.	41.14	105571.	42.24	0.027
105586.	41.69	105591.	42.81	0.027
105596.	42.81	105602.	41.14	0.039
105616.	41.69	105622.	40.11	0.038
105627.	40.62	105632.	41.69	0.026
105648.	40.62	105652.	42.24	0.040
105657.	42.24	105663.	41.14	0.026
105677.	42.81	105683.	41.14	0.039
105693.	41.69	105699.	40.62	0.026
105708.	40.62	105714.	41.69	0.026
105714.	41.69	105719.	40.62	0.026
105734.	41.14	105740.	39.60	0.038
105746.	39.60	105750.	40.62	0.026
105755.	41.14	105761.	40.11	0.025
105766.	40.11	105771.	41.14	0.026
105777.	40.62	105783.	39.11	0.037
105788.	38.64	105793.	40.11	0.038
105820.	39.60	105826.	38.17	0.036
105865.	37.72	105872.	36.01	0.045
105900.	36.42	105905.	37.72	0.036
105940.	36.01	105946.	37.28	0.035
105974.	37.28	105981.	36.01	0.034
106061.	36.42	106068.	34.82	0.044
106097.	35.61	106102.	37.28	0.047
106131.	36.83	106138.	35.20	0.044
106167.	35.20	106173.	36.42	0.034
106203.	35.61	106210.	34.44	0.033
106216.	34.44	106221.	35.61	0.034
106227.	35.61	106234.	34.44	0.033
106239.	34.82	106245.	36.01	0.034
106269.	36.01	106276.	34.82	0.033
106381.	32.66	106386.	33.71	0.032
106406.	33.36	106411.	34.44	0.033
106418.	34.44	106424.	33.36	0.032
106430.	33.71	106436.	34.82	0.033
106442.	34.82	106450.	33.00	0.052
106467.	34.44	106474.	33.36	0.032

106480.	33.36	106486.	34.44	0.033
106505.	33.36	106511.	34.44	0.033
106595.	35.20	106600.	36.42	0.034
106636.	35.61	106641.	36.85	0.035
106789.	39.50	106794.	40.62	0.026
106810.	40.62	106814.	42.24	0.040
106820.	41.69	106825.	40.62	0.026
106830.	40.62	106835.	41.69	0.026
106840.	41.69	106846.	40.62	0.026
106851.	40.62	106855.	42.24	0.040
106861.	41.69	106866.	40.62	0.026
106871.	41.14	106876.	42.24	0.027
106886.	41.14	106890.	42.81	0.041
106896.	43.41	106901.	42.24	0.027
106906.	41.69	106911.	42.81	0.027
106915.	43.41	106920.	42.24	0.027
106925.	42.81	106930.	44.01	0.028
106930.	44.01	106934.	45.27	0.029
106934.	45.27	106940.	44.01	0.028
106954.	44.01	106959.	42.81	0.027
106959.	42.81	106965.	41.14	0.039
106965.	41.14	106970.	42.24	0.027
106974.	42.81	106980.	41.69	0.026
106984.	41.69	106989.	42.81	0.027
106989.	42.81	106994.	44.01	0.028
107004.	42.81	107008.	44.01	0.028
107013.	44.62	107018.	43.41	0.027
107046.	45.92	107051.	44.62	0.028
107064.	45.92	107069.	44.62	0.028
107074.	44.62	107078.	45.92	0.029
107082.	46.59	107088.	45.27	0.028
107092.	44.62	107097.	45.92	0.029
107110.	45.27	107114.	47.30	0.045
107119.	48.01	107124.	46.59	0.030
107137.	48.01	107142.	46.59	0.030
107169.	46.59	107173.	48.01	0.030
107195.	48.01	107200.	46.59	0.030
107231.	47.30	107235.	48.74	0.030
107257.	48.74	107262.	47.30	0.030
107270.	48.01	107274.	49.52	0.031
107292.	49.52	107296.	48.01	0.030
107326.	49.52	107331.	48.01	0.030
107340.	46.59	107346.	44.62	0.042
107364.	44.62	107368.	45.92	0.029
107368.	45.92	107372.	48.74	0.061
107393.	49.52	107398.	47.30	0.045
107420.	46.59	107425.	48.01	0.030
107438.	48.01	107442.	49.52	0.031
107455.	49.52	107459.	51.10	0.032
107463.	50.29	107468.	48.74	0.031
107472.	48.74	107476.	50.29	0.032
107488.	50.29	107492.	51.95	0.033
107492.	51.95	107497.	50.29	0.032
107510.	50.29	107514.	48.74	0.031
107527.	49.52	107532.	47.30	0.045
107553.	48.74	107557.	50.29	0.032
107587.	49.52	107591.	51.10	0.032
107612.	49.52	107617.	48.01	0.030
107622.	48.01	107626.	49.52	0.031
107639.	48.01	107643.	49.52	0.031
107669.	48.01	107673.	49.52	0.031
107694.	50.29	107699.	48.74	0.031
107720.	50.29	107724.	51.95	0.033

107732.	50.29	107737.	48.74	0.031
107741.	49.52	107744.	51.10	0.032
107744.	51.10	107749.	49.52	0.031
107749.	49.52	107753.	51.10	0.032
107761.	51.95	107766.	50.29	0.032
107770.	49.52	107774.	51.10	0.032
107774.	51.10	107779.	48.01	0.060
107779.	48.01	107783.	49.52	0.031
107787.	48.74	107791.	50.29	0.032
107791.	50.29	107796.	48.74	0.031
107800.	48.74	107804.	51.95	0.066
107804.	51.95	107808.	50.29	0.032
107824.	51.95	107829.	50.29	0.032
107900.	50.29	107904.	51.95	0.033
107916.	52.81	107920.	54.64	0.035
107951.	53.70	107955.	51.95	0.032
107975.	51.95	107979.	53.70	0.034
107998.	54.64	108003.	52.81	0.034
108039.	51.95	108043.	53.70	0.034
108069.	56.57	108074.	54.64	0.034
108129.	53.70	108132.	55.59	0.035
108152.	53.70	108157.	51.95	0.032
108172.	52.81	108176.	54.64	0.035
108176.	54.64	108179.	56.57	0.035
108195.	56.57	108199.	53.70	0.051
108231.	53.70	108235.	51.95	0.032
108239.	51.95	108244.	50.29	0.032
108256.	50.29	108260.	51.95	0.033
108260.	51.95	108264.	50.29	0.032
108264.	50.29	108268.	51.95	0.033
108284.	51.10	108288.	52.81	0.034
108300.	53.70	108303.	55.59	0.035
108320.	53.70	108324.	51.95	0.032
108332.	51.10	108336.	52.81	0.034
108336.	52.81	108340.	51.10	0.032
108344.	51.10	108348.	52.81	0.034
108352.	51.95	108357.	50.29	0.032
108361.	50.29	108365.	51.95	0.033
108369.	51.95	108374.	49.52	0.047
108374.	49.52	108377.	51.10	0.032
108386.	51.95	108390.	49.52	0.047
108394.	49.52	108398.	51.10	0.032
108402.	51.10	108407.	49.52	0.031
108411.	49.52	108415.	51.10	0.032
108427.	50.29	108431.	53.70	0.067
108450.	54.64	108455.	52.81	0.034
108462.	53.70	108467.	51.10	0.048
108475.	51.95	108478.	53.70	0.034
108478.	53.70	108483.	51.10	0.048
108487.	50.29	108491.	52.81	0.050
108499.	52.81	108503.	51.10	0.032
108503.	51.10	108507.	52.81	0.034
108524.	51.10	108527.	52.81	0.034
108543.	53.70	108548.	51.95	0.032
108552.	51.10	108556.	52.81	0.034
108560.	52.81	108564.	51.10	0.032
108568.	51.10	108572.	53.70	0.051
108576.	52.81	108580.	51.10	0.032
108588.	52.81	108593.	51.10	0.032
108605.	51.10	108610.	49.52	0.031
108630.	50.29	108634.	51.95	0.033
108634.	51.95	108638.	53.70	0.034
108638.	53.70	108642.	51.95	0.032

108646.	52.81	108650.	54.64	0.035
108654.	54.64	108658.	51.95	0.049
108662.	51.95	108666.	53.70	0.034
108666.	53.70	108670.	51.95	0.032
108670.	51.95	108675.	50.29	0.032
108678.	51.10	108682.	52.81	0.034
108682.	52.81	108687.	51.10	0.032
108691.	50.29	108695.	51.95	0.033
108699.	52.81	108703.	51.10	0.032
108708.	50.29	108711.	51.95	0.033
108711.	51.95	108715.	53.70	0.034
108719.	52.81	108724.	51.10	0.032
108724.	51.10	108727.	52.81	0.034
108727.	52.81	108731.	54.64	0.035
108735.	53.70	108739.	51.95	0.032
108743.	51.95	108747.	53.70	0.034
108747.	53.70	108752.	51.95	0.032
108764.	51.95	108768.	50.29	0.032
108788.	51.10	108792.	53.70	0.051
108812.	54.64	108816.	51.95	0.049
108836.	51.10	108840.	53.70	0.051
108844.	53.70	108849.	51.95	0.032
108860.	52.81	108865.	51.10	0.032
108869.	51.10	108872.	54.64	0.069
108892.	55.59	108896.	53.70	0.034
108922.	54.64	108926.	52.81	0.034
108930.	52.81	108934.	55.59	0.053
108957.	53.70	108961.	55.59	0.035
108972.	54.64	108976.	56.57	0.035
108995.	56.57	108999.	54.64	0.034
109022.	55.59	109026.	53.70	0.034
109034.	54.64	109037.	56.57	0.035
109037.	56.57	109041.	54.64	0.034
109041.	54.64	109044.	56.57	0.035
109056.	57.63	109060.	55.59	0.035
109060.	55.59	109063.	57.63	0.037
109066.	57.63	109071.	55.59	0.035
109074.	55.59	109078.	57.63	0.037
109081.	58.68	109086.	56.57	0.036
109089.	56.57	109092.	58.68	0.037
109096.	57.63	109100.	55.59	0.035
109104.	56.57	109107.	58.68	0.037
109107.	58.68	109111.	56.57	0.036
109115.	55.59	109118.	57.63	0.037
109122.	58.68	109126.	55.59	0.053
109130.	55.59	109133.	57.63	0.037
109133.	57.63	109136.	59.78	0.037
109151.	59.78	109155.	57.63	0.036
109179.	60.95	109184.	57.63	0.055
109202.	54.64	109206.	57.63	0.055
109223.	62.14	109227.	59.78	0.038
109260.	56.57	109263.	58.68	0.037
109270.	58.68	109273.	60.95	0.039
109372.	58.68	109376.	56.57	0.036
109384.	56.57	109387.	58.68	0.037
109390.	57.63	109394.	59.78	0.037
109394.	59.78	109397.	62.14	0.039
109414.	60.95	109419.	57.63	0.055
109437.	55.59	109441.	57.63	0.037
109500.	57.63	109504.	55.59	0.035
109523.	55.59	109526.	58.68	0.056
109544.	60.95	109548.	57.63	0.055
109566.	56.37	109569.	59.78	0.057

109588.	57.63	109592.	55.59	0.035
109595.	56.57	109598.	58.68	0.037
109598.	58.68	109602.	60.95	0.039
109613.	60.95	109618.	56.57	0.071
109635.	56.57	109639.	59.78	0.057
109665.	55.59	109669.	57.63	0.037
109679.	59.78	109682.	62.14	0.039
109697.	59.78	109701.	57.63	0.036
109701.	57.63	109705.	55.59	0.035
109723.	56.57	109726.	58.68	0.037
109736.	60.95	109740.	63.37	0.040
109780.	62.14	109784.	59.78	0.038
109837.	62.14	109841.	59.78	0.038
109858.	58.68	109862.	60.95	0.039
109972.	62.14	109976.	59.78	0.038
109993.	59.78	109996.	62.14	0.039
110078.	63.37	110082.	60.95	0.038
110089.	62.14	110093.	59.78	0.038
110172.	62.14	110176.	59.78	0.038
110193.	59.78	110196.	62.14	0.039
110199.	62.14	110203.	59.78	0.038
110203.	59.78	110206.	62.14	0.039
110220.	62.14	110222.	66.02	0.062
110222.	66.02	110226.	63.37	0.040
110250.	62.14	110254.	58.68	0.056
110271.	59.78	110274.	64.69	0.082
110291.	64.69	110294.	62.14	0.039
110304.	63.37	110308.	60.95	0.038
110318.	63.37	110322.	60.95	0.038
110325.	60.95	110328.	63.37	0.040
110328.	63.37	110332.	60.95	0.038
110338.	60.95	110342.	64.69	0.061
110375.	64.69	110378.	67.41	0.042
110408.	64.69	110411.	62.14	0.039
110422.	62.14	110425.	59.78	0.038
110473.	62.14	110477.	59.78	0.038
110507.	63.37	110510.	66.02	0.042
110517.	64.69	110521.	62.14	0.039
110521.	62.14	110524.	66.02	0.062
110524.	66.02	110527.	63.37	0.040
110541.	63.37	110545.	59.78	0.057
110562.	59.78	110565.	62.14	0.039
110565.	62.14	110569.	59.78	0.038
110586.	59.78	110590.	62.14	0.039
110593.	62.14	110597.	59.78	0.038
110614.	60.95	110617.	63.37	0.040
110661.	62.14	110665.	59.78	0.038
110665.	59.78	110668.	62.14	0.039
110682.	60.95	110685.	64.69	0.061
110685.	64.69	110689.	60.95	0.058
110702.	62.14	110706.	59.78	0.038
110706.	59.78	110709.	62.14	0.039
110726.	63.37	110730.	60.95	0.038
110730.	60.95	110733.	63.37	0.040
110747.	60.95	110750.	63.37	0.040
110750.	63.37	110754.	60.95	0.038
110767.	63.37	110771.	60.95	0.038
110771.	60.95	110774.	63.37	0.040
110788.	60.95	110790.	64.69	0.061
110790.	64.69	110794.	62.14	0.039
110818.	63.37	110821.	60.95	0.038
110831.	63.37	110835.	60.95	0.038
110852.	60.95	110855.	63.37	0.040

110960.	58.68	110963.	60.95	0.039
110980.	62.14	110984.	59.78	0.038
111002.	57.63	111005.	59.78	0.037
111019.	63.37	111023.	60.95	0.038
111034.	58.68	111038.	56.57	0.036
111041.	57.63	111044.	59.78	0.037
111048.	59.78	111052.	57.63	0.036
111070.	56.57	111074.	58.68	0.037
111081.	58.68	111085.	56.57	0.036
111103.	56.57	111106.	58.68	0.037
111106.	58.68	111111.	56.57	0.036
111118.	56.57	111121.	58.68	0.037
111121.	58.68	111126.	56.57	0.036
111129.	55.59	111132.	58.68	0.056
111144.	55.59	111148.	57.63	0.037
111152.	56.57	111156.	54.64	0.034
111160.	55.59	111163.	57.63	0.037
111163.	57.63	111167.	55.59	0.035
111182.	56.57	111186.	54.64	0.034
111186.	54.64	111190.	56.57	0.035
111193.	57.63	111197.	55.59	0.035
111197.	55.59	111200.	57.63	0.037
111212.	57.63	111216.	55.59	0.035
111216.	55.59	111219.	57.63	0.037
111237.	58.68	111242.	56.57	0.036
111245.	55.59	111248.	58.68	0.056
111252.	58.68	111257.	54.64	0.068
111260.	54.64	111264.	57.63	0.055
111267.	58.68	111271.	55.59	0.053
111275.	55.59	111278.	58.68	0.056
111289.	57.63	111292.	59.78	0.037
111307.	58.68	111312.	55.59	0.053
111315.	55.59	111318.	57.63	0.037
111322.	58.68	111326.	56.57	0.036
111329.	57.63	111333.	59.78	0.037
111336.	59.78	111340.	57.63	0.036
111344.	56.57	111348.	58.68	0.037
111399.	60.95	111402.	63.37	0.040
111402.	63.37	111406.	60.95	0.038
111424.	58.68	111427.	60.95	0.039
111430.	62.14	111434.	59.78	0.038
111444.	62.14	111448.	59.78	0.038
111452.	59.78	111455.	62.14	0.039
111507.	59.78	111510.	63.37	0.060
111510.	63.37	111514.	59.78	0.057
111528.	60.95	111531.	58.68	0.037
111531.	58.68	111534.	62.14	0.059
111551.	63.37	111555.	60.95	0.038
111585.	60.95	111588.	63.37	0.040
111615.	63.37	111618.	66.02	0.042
111618.	66.02	111622.	63.37	0.040
111642.	63.37	111646.	60.95	0.038
111656.	62.14	111660.	59.78	0.038
111680.	60.95	111683.	64.69	0.061
111683.	64.69	111687.	62.14	0.039
111687.	62.14	111690.	64.69	0.041
111696.	66.02	111700.	63.37	0.040
111717.	60.95	111720.	64.69	0.061
111737.	63.37	111741.	60.95	0.038
111741.	60.95	111744.	63.37	0.040
111761.	63.37	111764.	60.95	0.038
111771.	60.95	111774.	63.37	0.040
111774.	63.37	111778.	59.78	0.057

111778.	59.78	111781.	62.14	0.039
111785.	62.14	111788.	64.69	0.041
111788.	64.69	111792.	62.14	0.039
111794.	62.14	111798.	64.69	0.041
111822.	60.95	111825.	64.69	0.061
111835.	63.37	111838.	66.02	0.042
111855.	63.37	111859.	60.95	0.038
111913.	63.37	111916.	66.02	0.042
111923.	64.69	111926.	62.14	0.039
111940.	59.78	111943.	62.14	0.039
111961.	62.14	111965.	58.68	0.056
111965.	58.68	111968.	60.95	0.039
111971.	62.14	111975.	59.78	0.038
111975.	59.78	111978.	62.14	0.039
111981.	62.14	111984.	64.69	0.041
111988.	63.37	111992.	60.95	0.038
111992.	60.95	111995.	63.37	0.040
111998.	62.14	112002.	59.78	0.038
112026.	62.14	112030.	59.78	0.038
112048.	59.78	112051.	62.14	0.039
112068.	63.37	112072.	60.95	0.038
112075.	60.95	112078.	63.37	0.040
112088.	60.95	112092.	63.37	0.040
112092.	63.37	112096.	60.95	0.038
112106.	62.14	112110.	59.78	0.038
112113.	58.68	112116.	60.95	0.039
112134.	62.14	112138.	59.78	0.038
112155.	59.78	112158.	62.14	0.039
112176.	60.95	112180.	58.68	0.037
112190.	59.78	112194.	57.63	0.036
112198.	57.63	112201.	59.78	0.037
112212.	58.68	112215.	60.95	0.039
112215.	60.95	112219.	58.68	0.037
112237.	58.68	112240.	60.95	0.039
112258.	60.95	112262.	58.68	0.037
112280.	57.63	112283.	59.78	0.037
112302.	56.57	112306.	54.64	0.034
112343.	57.63	112347.	55.59	0.035
112354.	55.59	112358.	57.63	0.037
112365.	56.57	112369.	58.68	0.037
112380.	56.57	112383.	58.68	0.037
112393.	60.95	112396.	63.37	0.040
112400.	63.37	112404.	60.95	0.038
112414.	59.78	112419.	56.57	0.054
112437.	56.57	112440.	59.78	0.057
112455.	59.78	112459.	56.57	0.054
112477.	56.57	112480.	59.78	0.057
112498.	60.95	112502.	58.68	0.037
112534.	59.78	112537.	62.14	0.039
112555.	60.95	112559.	58.68	0.037
112577.	56.57	112580.	58.68	0.037
112580.	58.68	112585.	56.57	0.036
112603.	56.57	112606.	59.78	0.057
112616.	62.14	112619.	64.69	0.041
112636.	62.14	112640.	59.78	0.038
112666.	57.63	112671.	54.64	0.052
112689.	54.64	112693.	57.63	0.055
112752.	58.68	112756.	56.57	0.036
112759.	57.63	112762.	59.78	0.037
112774.	57.63	112777.	59.78	0.037
112788.	58.68	112791.	60.95	0.039
112808.	60.95	112812.	58.68	0.037
112816.	57.63	112819.	59.78	0.037

112823.	59.78	112827.	57.66	0.036
112847.	62.14	112851.	59.78	0.038
112861.	60.95	112865.	58.68	0.037
112868.	59.78	112872.	62.14	0.039
112913.	62.14	112916.	64.69	0.041
112916.	64.69	112920.	62.14	0.039
112929.	64.69	112933.	62.14	0.039
112950.	60.95	112953.	63.37	0.040
112953.	63.37	112957.	60.95	0.038
112957.	60.95	112960.	63.37	0.040
112992.	66.02	112996.	63.37	0.040
113000.	62.14	113003.	64.69	0.041
113006.	66.02	113010.	62.14	0.059
113013.	62.14	113016.	64.69	0.041
113054.	67.41	113058.	64.69	0.040
113071.	63.37	113074.	66.02	0.042
113100.	63.37	113103.	66.02	0.042
113103.	66.02	113106.	68.91	0.044
113119.	67.41	113122.	64.69	0.040
113144.	67.41	113148.	64.69	0.040
113218.	67.41	113222.	64.69	0.040
113225.	64.69	113228.	67.41	0.042
113230.	67.41	113234.	63.37	0.060
113238.	63.37	113241.	66.02	0.042
113244.	67.41	113247.	64.69	0.040
113247.	64.69	113251.	62.14	0.039
113251.	62.14	113254.	64.69	0.041
113294.	64.69	113298.	62.14	0.039
113301.	63.37	113304.	66.02	0.042
113306.	67.41	113310.	63.37	0.060
113314.	63.37	113317.	66.02	0.042
113320.	67.41	113323.	64.69	0.040
113323.	64.69	113327.	62.14	0.039
113327.	62.14	113330.	64.69	0.041
113336.	64.69	113340.	62.14	0.039
113343.	63.37	113346.	66.02	0.042
113349.	66.02	113353.	63.37	0.040
113356.	64.69	113359.	67.41	0.042
113362.	66.02	113366.	63.37	0.040
113369.	63.37	113372.	66.02	0.042
113376.	64.69	113379.	62.14	0.039
113382.	63.37	113385.	66.02	0.042
113388.	66.02	113392.	63.37	0.040
113401.	67.41	113405.	64.69	0.040
113500.	62.14	113503.	64.69	0.041
113516.	64.69	113519.	67.41	0.042
113522.	66.02	113526.	62.14	0.059
113535.	66.02	113539.	63.37	0.040
113542.	62.14	113546.	64.69	0.041
113588.	67.41	113591.	64.69	0.040
113594.	63.37	113597.	66.02	0.042
178532.	67.41	178536.	64.69	0.040
178578.	67.41	178582.	63.37	0.060
178588.	64.69	178591.	67.41	0.042
178594.	66.02	178598.	63.37	0.040
178598.	63.37	178601.	66.02	0.042
178621.	63.37	178624.	66.02	0.042
178627.	64.69	178631.	62.14	0.039
178634.	63.37	178637.	66.02	0.042
178640.	66.02	178644.	63.37	0.040
178647.	63.37	178650.	66.02	0.042
178660.	63.37	178663.	66.02	0.042
178662.	64.69	178685.	67.41	0.042

178685.	67.41	178689.	64.69	0.040
178698.	67.41	178702.	64.69	0.040
178768.	64.69	178771.	62.14	0.039
178781.	64.69	178784.	62.14	0.039
178786.	63.37	178790.	66.02	0.042
178790.	66.02	178794.	63.37	0.040
178798.	62.14	178800.	64.69	0.041
178804.	66.02	178808.	63.37	0.040
178811.	62.14	178814.	66.02	0.062
178817.	66.02	178821.	62.14	0.059
178824.	62.14	178827.	66.02	0.062
178830.	64.69	178834.	62.14	0.039
178837.	62.14	178840.	66.02	0.062
178843.	66.02	178847.	63.37	0.040
178856.	67.41	178860.	64.69	0.040
178885.	66.02	178889.	62.14	0.059
178895.	64.69	178898.	67.41	0.042
178898.	67.41	178902.	63.37	0.060
178905.	63.37	178908.	66.02	0.042
178914.	66.02	178918.	63.37	0.040
178918.	63.37	178921.	66.02	0.042
178954.	63.37	178956.	66.02	0.042
178970.	67.41	178973.	64.69	0.040
178999.	64.69	179002.	67.41	0.042
179015.	68.91	179018.	66.02	0.042
179025.	63.37	179028.	66.02	0.042
179062.	70.43	179066.	67.41	0.043
179091.	66.02	179094.	68.91	0.044
179094.	68.91	179097.	66.02	0.042
179112.	67.41	179115.	70.43	0.045
179125.	67.41	179128.	70.43	0.045
179128.	70.43	179131.	67.41	0.043
179152.	68.91	179156.	66.02	0.042
179171.	67.41	179174.	70.43	0.045
179210.	70.43	179213.	67.41	0.043
179271.	70.43	179274.	67.41	0.043
179295.	70.43	179299.	67.41	0.043
179342.	68.91	241132.	62.14	0.098
241139.	62.14	241143.	59.78	0.038
241143.	59.78	241147.	57.63	0.036
241150.	57.63	241154.	59.78	0.037
241160.	60.95	241163.	64.69	0.061
241163.	64.69	241167.	62.14	0.039
241181.	59.78	241182.	64.69	0.082
241182.	64.69	241186.	67.41	0.042
241192.	70.43	241197.	67.41	0.043
241197.	67.41	241199.	70.43	0.045
241199.	70.43	241203.	60.95	0.135
241210.	60.95	241214.	58.68	0.037
241214.	58.68	241218.	60.95	0.039
241218.	60.95	241221.	58.68	0.037
241221.	58.68	241224.	60.95	0.039
241230.	62.14	241233.	66.02	0.062
241233.	66.02	241236.	68.91	0.044
241258.	66.02	241262.	62.14	0.059
241278.	62.14	241281.	67.41	0.084
241285.	66.02	241289.	62.14	0.059
241289.	62.14	241292.	64.69	0.041
241292.	64.69	241294.	67.41	0.042
241303.	68.91	241306.	75.46	0.095
241306.	75.46	241310.	70.43	0.066
241310.	70.43	241313.	67.41	0.043
241316.	66.02	241320.	63.37	0.040

241320.	63.37	241324.	60.95	0.038
241324.	60.95	241328.	58.68	0.037
241335.	57.63	241339.	55.59	0.035
241339.	55.59	241342.	57.63	0.037
241342.	57.63	241345.	60.95	0.058
241345.	60.95	241347.	66.02	0.083
241347.	66.02	241350.	70.43	0.066
241350.	70.43	241352.	75.46	0.071
241362.	75.46	241364.	72.01	0.046
241367.	72.01	241371.	66.02	0.083
241371.	66.02	241374.	68.91	0.044
241374.	68.91	241378.	66.02	0.042
241381.	64.69	241385.	62.14	0.039
241385.	62.14	241389.	58.68	0.056
241393.	58.68	241396.	56.57	0.036
241411.	57.63	241414.	59.78	0.037
241425.	58.68	241430.	56.57	0.036
241433.	57.63	241435.	59.78	0.037
241435.	59.78	241438.	63.37	0.060
241445.	64.69	241448.	67.41	0.042
241452.	67.41	241456.	62.14	0.078
241456.	62.14	241460.	58.68	0.056
241473.	58.68	241476.	60.95	0.039
241476.	60.95	241479.	64.69	0.061
241482.	66.02	241485.	68.91	0.044
241486.	70.43	241492.	67.41	0.043
241495.	67.41	241499.	63.37	0.060
241502.	63.37	241506.	59.78	0.057
241506.	59.78	241510.	56.57	0.054
241510.	56.57	241514.	58.68	0.037
241527.	60.95	241530.	63.37	0.040
241530.	63.37	241534.	60.95	0.038
241566.	62.14	241568.	64.69	0.041
241571.	64.69	241574.	67.41	0.042
241574.	67.41	241578.	63.37	0.060
241578.	63.37	241582.	66.02	0.042
241585.	66.02	241588.	63.37	0.040
241602.	62.14	241606.	59.78	0.038
241606.	59.78	241609.	62.14	0.039
241619.	62.14	241622.	64.69	0.041
241636.	62.14	241638.	67.41	0.084
241638.	67.41	241642.	62.14	0.078
241642.	62.14	241645.	67.41	0.084
241645.	67.41	241648.	64.69	0.040
241655.	64.69	241658.	60.95	0.058
241666.	60.95	241668.	64.69	0.061
241671.	66.02	241675.	63.37	0.040
241678.	64.69	241681.	67.41	0.042
241684.	67.41	241688.	64.69	0.040
241691.	64.69	241694.	68.91	0.065
241694.	68.91	241697.	66.02	0.042
241706.	68.91	241710.	66.02	0.042
241716.	67.41	241720.	63.37	0.060
241720.	63.37	241724.	60.95	0.038
241726.	62.14	241729.	66.02	0.062
241735.	66.02	241738.	68.91	0.044
241738.	68.91	241740.	75.46	0.095
241771.	70.43	241775.	66.02	0.062
241775.	66.02	241778.	60.95	0.076
241781.	60.95	241784.	63.37	0.040
241790.	66.02	241793.	68.91	0.044
241793.	68.91	241796.	73.67	0.069
241796.	73.67	241799.	70.43	0.044

241812.	68.91	241815.	66.02	0.042
241819.	64.69	241822.	62.14	0.039
241822.	62.14	241825.	64.69	0.041
241825.	64.69	241828.	67.41	0.042
241838.	67.41	241840.	70.43	0.045
241840.	70.43	241844.	67.41	0.043
241844.	67.41	241847.	64.69	0.040
241850.	66.02	241855.	60.95	0.076
241871.	60.95	241874.	66.02	0.083
241893.	67.41	241895.	72.01	0.068
241908.	68.91	241910.	73.67	0.069
241910.	73.67	241914.	66.02	0.104
241926.	67.41	241930.	64.69	0.040
241930.	64.69	241933.	67.41	0.042
241936.	66.02	241940.	63.37	0.040
241960.	62.14	241963.	66.02	0.062
241963.	66.02	241965.	70.43	0.066
241968.	72.01	241972.	68.91	0.043
241975.	70.43	241978.	73.67	0.046
241980.	72.01	241984.	67.41	0.063
241987.	67.41	241990.	70.43	0.045
241993.	70.43	241996.	67.41	0.043
242000.	66.02	242002.	68.91	0.044
242012.	67.41	242014.	72.01	0.068
242038.	70.43	242042.	67.41	0.043
242068.	66.02	242072.	62.14	0.059
242072.	62.14	242074.	66.02	0.062
242081.	64.69	242085.	60.95	0.058
242085.	60.95	242087.	67.41	0.106
242090.	68.91	242093.	66.02	0.042
242097.	64.69	242099.	68.91	0.065
242099.	68.91	242102.	73.67	0.069
242102.	73.67	242106.	67.41	0.084
242115.	70.43	242119.	63.37	0.100
242119.	63.37	242123.	60.95	0.038
242123.	60.95	242126.	63.37	0.040
242129.	62.14	242133.	59.78	0.038
242136.	60.95	242138.	67.41	0.106
242145.	64.69	242148.	68.91	0.065
242148.	68.91	242150.	72.01	0.045
242150.	72.01	242154.	67.41	0.063
242154.	67.41	242158.	64.69	0.040
242158.	64.69	242160.	68.91	0.065
242163.	70.43	242166.	67.41	0.043
242166.	67.41	242170.	63.37	0.060
242191.	62.14	242193.	66.02	0.062
242193.	66.02	242196.	70.43	0.066
242196.	70.43	242199.	67.41	0.043
242205.	70.43	242208.	75.46	0.071
242208.	75.46	242211.	70.43	0.066
242230.	66.02	242235.	60.95	0.076
242247.	60.95	242250.	63.37	0.040
242250.	63.37	242254.	67.41	0.063
242265.	70.43	242269.	67.41	0.043
242278.	67.41	242282.	64.69	0.040
242282.	64.69	242284.	67.41	0.042
242284.	67.41	242286.	73.67	0.092
242290.	72.01	242294.	67.41	0.063
242305.	67.41	242308.	70.43	0.045
242320.	72.01	242324.	68.91	0.043
242332.	72.01	242336.	68.91	0.043
242352.	66.02	242354.	68.91	0.044
242358.	67.41	242360.	70.43	0.045

242364.	70.43	242366.	75.46	0.071
242366.	75.46	242370.	70.43	0.066
242372.	70.43	242374.	77.28	0.097
242377.	77.28	242379.	83.39	0.079
242379.	83.39	242382.	81.27	0.025
242382.	81.27	242384.	85.62	0.054
242384.	85.62	242388.	83.39	0.026
242388.	83.39	242391.	75.46	0.095
242394.	73.67	242399.	63.37	0.140
242413.	66.02	242416.	73.67	0.116
242416.	73.67	242419.	70.43	0.044
242419.	70.43	242422.	73.67	0.046
242434.	72.01	242436.	75.46	0.048
242436.	75.46	242439.	72.01	0.046
242442.	73.67	242446.	68.91	0.064
242449.	70.43	242453.	66.02	0.062
242453.	66.02	242456.	63.37	0.040
242459.	64.69	242461.	67.41	0.042
242468.	66.02	242470.	72.01	0.090
242473.	73.67	242477.	70.43	0.044
242477.	70.43	242478.	73.67	0.046
242484.	77.28	242488.	73.67	0.047
242490.	73.67	242493.	79.20	0.075
242493.	79.20	242496.	72.01	0.090
242505.	72.01	242509.	68.91	0.043
242520.	70.43	242524.	67.41	0.043
242524.	67.41	242527.	70.43	0.045
242527.	70.43	242530.	67.41	0.043
242530.	67.41	242532.	73.67	0.092
242545.	70.43	242547.	77.28	0.097
242547.	77.28	242550.	68.91	0.108
242553.	70.43	242555.	75.46	0.071
242562.	75.46	242565.	70.43	0.066
242565.	70.43	242568.	73.67	0.046
242571.	72.01	242574.	67.41	0.063
242577.	67.41	242580.	70.43	0.045
242593.	67.41	242597.	63.37	0.060
242606.	63.37	242610.	60.95	0.038
242610.	60.95	242612.	64.69	0.061
242612.	64.69	242616.	67.41	0.042
242629.	67.41	242633.	62.14	0.078
242633.	62.14	242635.	64.69	0.041
242635.	64.69	242635.	77.28	0.195
242645.	79.20	242648.	83.39	0.053
242648.	83.39	242651.	81.27	0.025
242651.	81.27	242654.	68.91	0.152
242656.	68.91	242660.	66.02	0.042
242660.	66.02	242663.	70.43	0.066
242663.	70.43	242665.	73.67	0.046
242674.	70.43	242677.	73.67	0.046
242683.	72.01	242685.	75.46	0.048
242706.	77.28	242711.	73.67	0.047
242714.	72.01	242718.	68.91	0.043
242718.	68.91	242722.	62.14	0.098
242731.	63.37	242733.	66.02	0.042
242736.	67.41	242740.	72.01	0.068
242742.	72.01	242746.	68.91	0.043
242749.	70.43	242752.	67.41	0.043
242752.	67.41	242754.	70.43	0.045
242761.	68.91	242763.	73.67	0.069
242763.	73.67	242767.	70.43	0.044
242767.	70.43	242771.	66.02	0.062
242771.	66.02	242774.	63.37	0.040

242781.	63.37	242784.	59.78	0.057
242784.	59.78	242787.	62.14	0.039
242787.	62.14	242790.	67.41	0.084
242797.	64.69	242800.	67.41	0.042
242810.	64.69	242812.	67.41	0.042
242816.	67.41	242819.	64.69	0.040
242819.	64.69	242822.	70.43	0.088
242824.	70.43	242828.	67.41	0.043
242835.	66.02	242839.	63.37	0.040
242839.	63.37	242842.	60.95	0.038
242842.	60.95	242846.	58.68	0.037
242846.	58.68	242853.	44.01	0.250
242853.	44.01	242856.	48.01	0.091
242856.	48.01	242859.	51.10	0.064
242859.	51.10	242862.	53.70	0.051
242862.	53.70	242866.	57.63	0.073
242866.	57.63	242868.	63.37	0.099
242868.	63.37	242872.	66.02	0.042
242872.	66.02	242877.	59.78	0.094
242890.	59.78	242893.	62.14	0.039
242893.	62.14	242896.	67.41	0.084
242896.	67.41	242899.	64.69	0.040
242903.	63.37	242905.	67.41	0.063
242912.	66.02	242916.	63.37	0.040
242916.	63.37	242921.	58.68	0.073
242921.	58.68	242926.	55.59	0.053
242926.	55.59	242929.	53.70	0.034
242929.	53.70	242931.	55.59	0.035
242938.	55.59	242942.	59.78	0.075
242942.	59.78	242946.	63.37	0.060
242949.	62.14	242952.	59.78	0.038
242956.	60.95	242960.	58.68	0.037
242963.	59.78	242966.	62.14	0.039
242969.	63.37	242973.	60.95	0.038
242973.	60.95	242978.	56.57	0.071
242978.	56.57	242981.	60.95	0.077
242984.	60.95	242988.	58.68	0.037
242988.	58.68	242990.	60.95	0.039
242990.	60.95	242993.	63.37	0.040
242993.	63.37	242996.	68.91	0.087
243002.	68.91	243005.	72.01	0.045
243005.	72.01	243008.	68.91	0.043
243008.	68.91	243012.	66.02	0.042
243016.	66.02	243019.	63.37	0.040
243025.	63.37	243029.	60.95	0.038
243043.	63.37	243046.	59.78	0.057
243046.	59.78	243050.	62.14	0.039
243050.	62.14	243052.	64.69	0.041
243052.	64.69	243056.	62.14	0.039
243072.	63.37	243075.	67.41	0.063
243075.	67.41	243080.	62.14	0.078
243083.	62.14	243085.	66.02	0.062
243092.	66.02	243095.	63.37	0.040
243095.	63.37	243098.	70.43	0.111
243101.	70.43	243105.	63.37	0.100
243117.	64.69	243120.	67.41	0.042
243120.	67.41	243123.	70.43	0.045
243123.	70.43	243126.	73.67	0.046
243126.	73.67	243129.	70.43	0.044
243135.	70.43	243139.	67.41	0.043
243139.	67.41	243143.	64.69	0.040
243143.	64.69	243146.	62.14	0.039
243149.	63.37	243153.	60.95	0.038

243156.	59.78	243159.	63.37	0.060
243166.	63.37	243170.	59.78	0.057
243177.	62.14	243180.	59.78	0.038
243184.	59.78	243186.	62.14	0.039
243198.	60.95	243202.	58.68	0.037
243208.	57.63	243212.	59.78	0.037
243220.	57.63	243222.	62.14	0.078
243226.	63.37	243230.	59.78	0.057
243232.	60.95	243236.	64.69	0.061
243239.	64.69	243243.	59.78	0.075
243250.	60.95	243254.	57.63	0.055
243258.	57.63	243260.	59.78	0.037
243272.	58.68	243275.	62.14	0.059
243275.	62.14	243279.	58.68	0.056
243279.	58.68	243283.	55.59	0.053
243287.	55.59	243290.	57.63	0.037
243294.	57.63	243298.	55.59	0.035
243298.	55.59	243301.	57.63	0.037
243329.	60.95	243333.	58.68	0.037
243360.	63.37	243364.	59.78	0.057
243368.	58.68	243372.	56.57	0.036
243372.	56.57	243375.	58.68	0.037
243382.	56.57	243385.	60.95	0.077
243389.	60.95	243392.	63.37	0.040
243403.	62.14	243407.	58.68	0.056
243407.	58.68	243411.	56.57	0.036
243414.	57.63	243417.	59.78	0.037
243424.	60.95	243427.	63.37	0.040
243427.	63.37	243430.	66.02	0.042
243430.	66.02	243434.	63.37	0.040
243434.	63.37	243438.	60.95	0.038
243449.	57.63	243453.	55.59	0.035
243457.	56.57	243461.	53.70	0.051
243461.	53.70	243464.	55.59	0.035
243468.	56.57	243472.	54.64	0.034
243472.	54.64	243475.	57.63	0.055
243478.	58.68	243482.	62.14	0.059
243488.	60.95	243492.	64.69	0.061
243495.	63.37	243499.	60.95	0.038
243499.	60.95	243503.	58.68	0.037
243507.	58.68	243511.	55.59	0.053
243537.	56.57	243541.	53.70	0.051
243546.	53.70	243549.	56.57	0.054
243549.	56.57	243553.	54.64	0.034
243553.	54.64	243556.	57.63	0.055
243559.	57.63	243562.	62.14	0.078
243566.	60.95	243570.	58.68	0.037
243574.	58.68	243580.	51.95	0.115
243586.	52.81	243589.	56.57	0.071
243596.	56.68	243599.	66.02	0.125
243599.	66.02	243603.	63.37	0.040
243603.	63.37	243606.	60.95	0.038
243606.	60.95	243608.	64.69	0.061
243608.	64.69	243613.	62.14	0.039
243620.	60.95	243623.	63.37	0.040
243626.	64.69	243630.	59.78	0.075
243630.	59.78	243631.	68.91	0.153

APPENDIX I
SPEED LIMITS

FRAME	TRACK SPEED LIMITS (MPH)	
6725	Speed board 40	MP 284.49
12071	Speed board 60	MP 287.43
21527	Speed board 50	MP 292.61
25687	Speed board 60	MP 294.90
43670	Speed board 40	MP 304.89
47970	Speed board 45	MP 307.29
55771	Speed board 55	MP 311.65
56877	Speed board 60	MP 312.27
61451	Speed board 50	MP 314.75
66600	Speed board 60	MP 317.59
93726	Speed board 55	MP 332.03
95388	Speed board 45	MP 333.41
97733	Speed board 35	MP 334.66
102402	Speed board 25	MP 336.93
107473	Speed board 35	MP 339.13
109170	Speed board 45	MP 339.86
114126	Speed board 40	MP 342.59

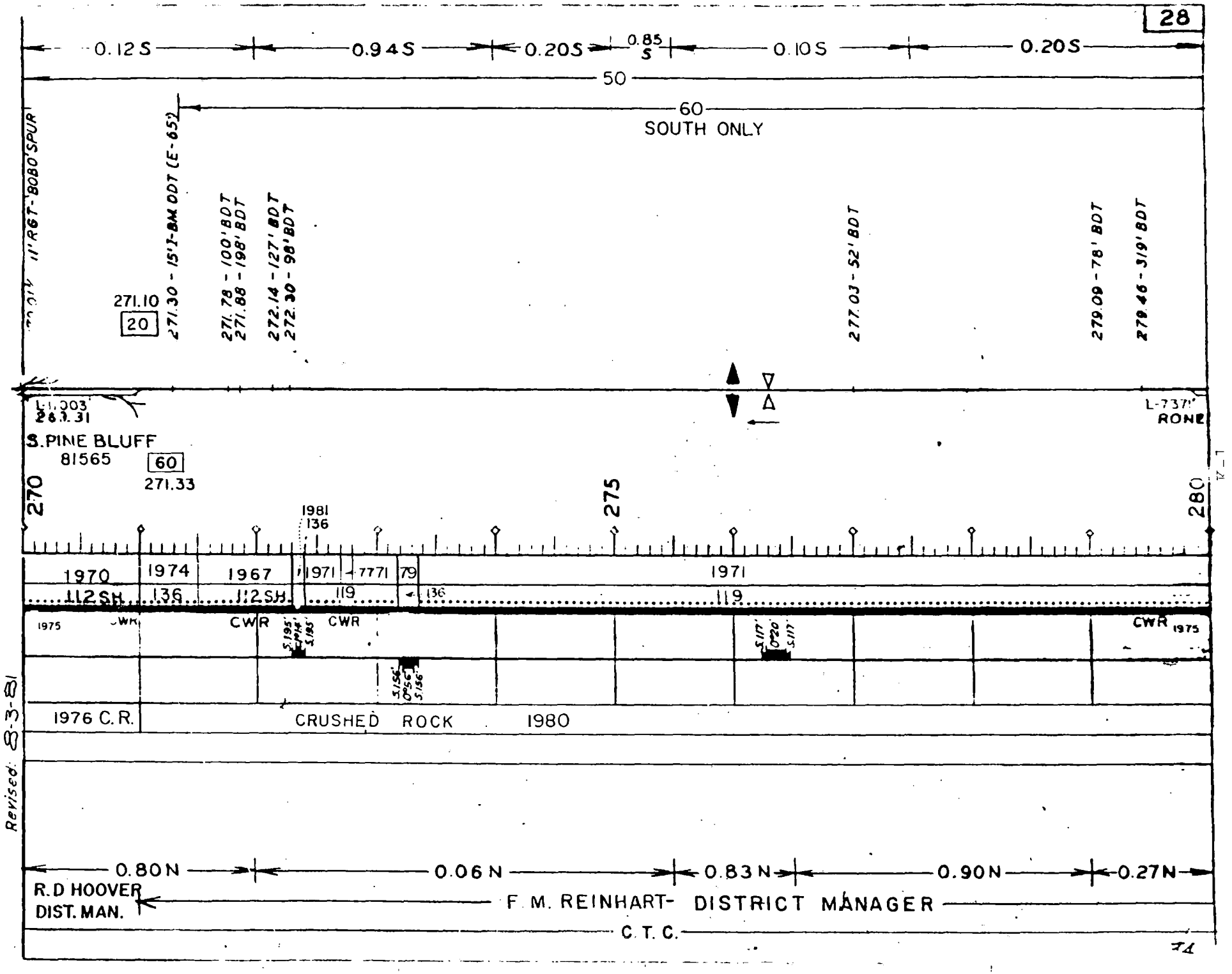
APPENDIX J

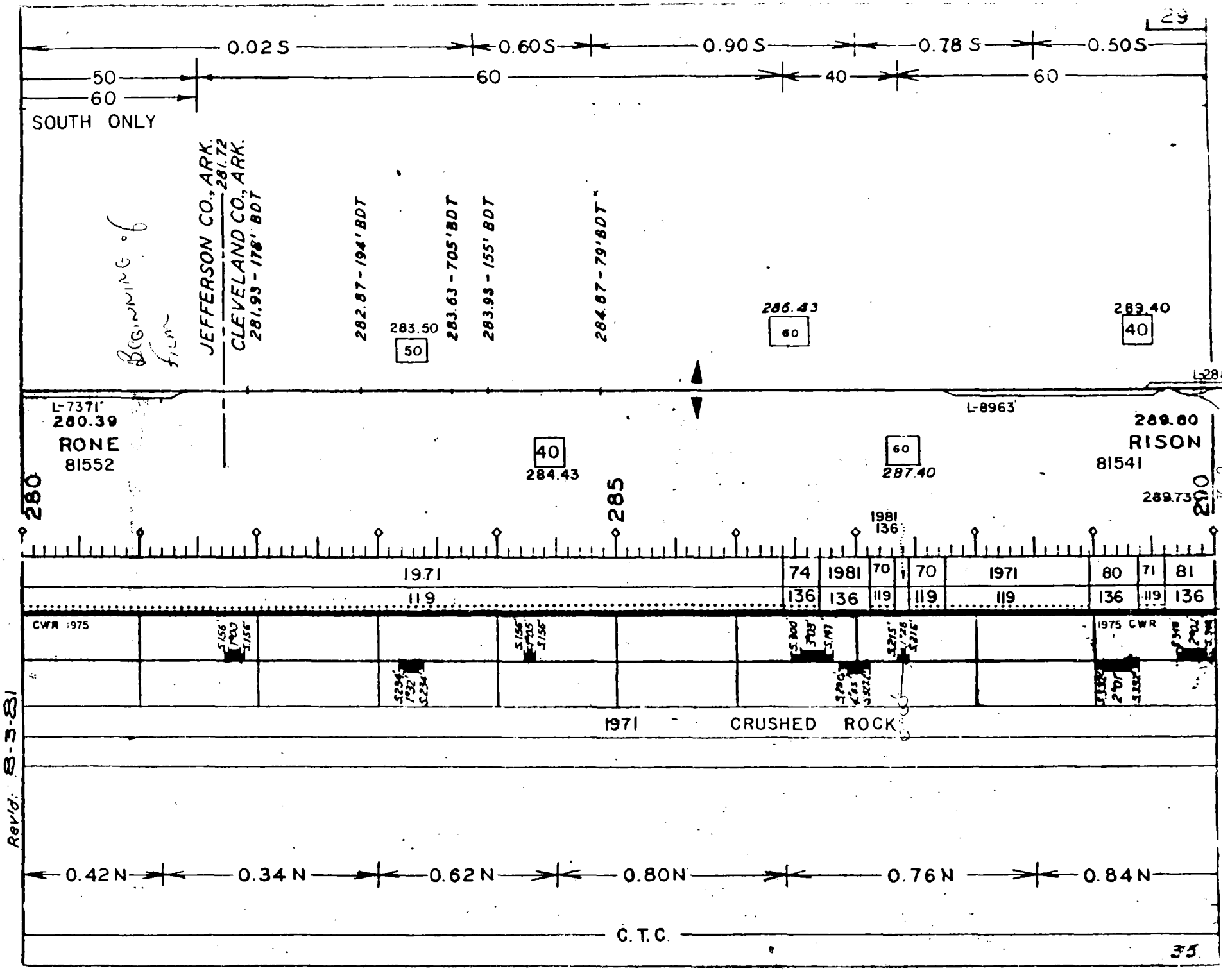
CRESTVIEW DATA TRAIN MAKEUP AND GRADE DATA

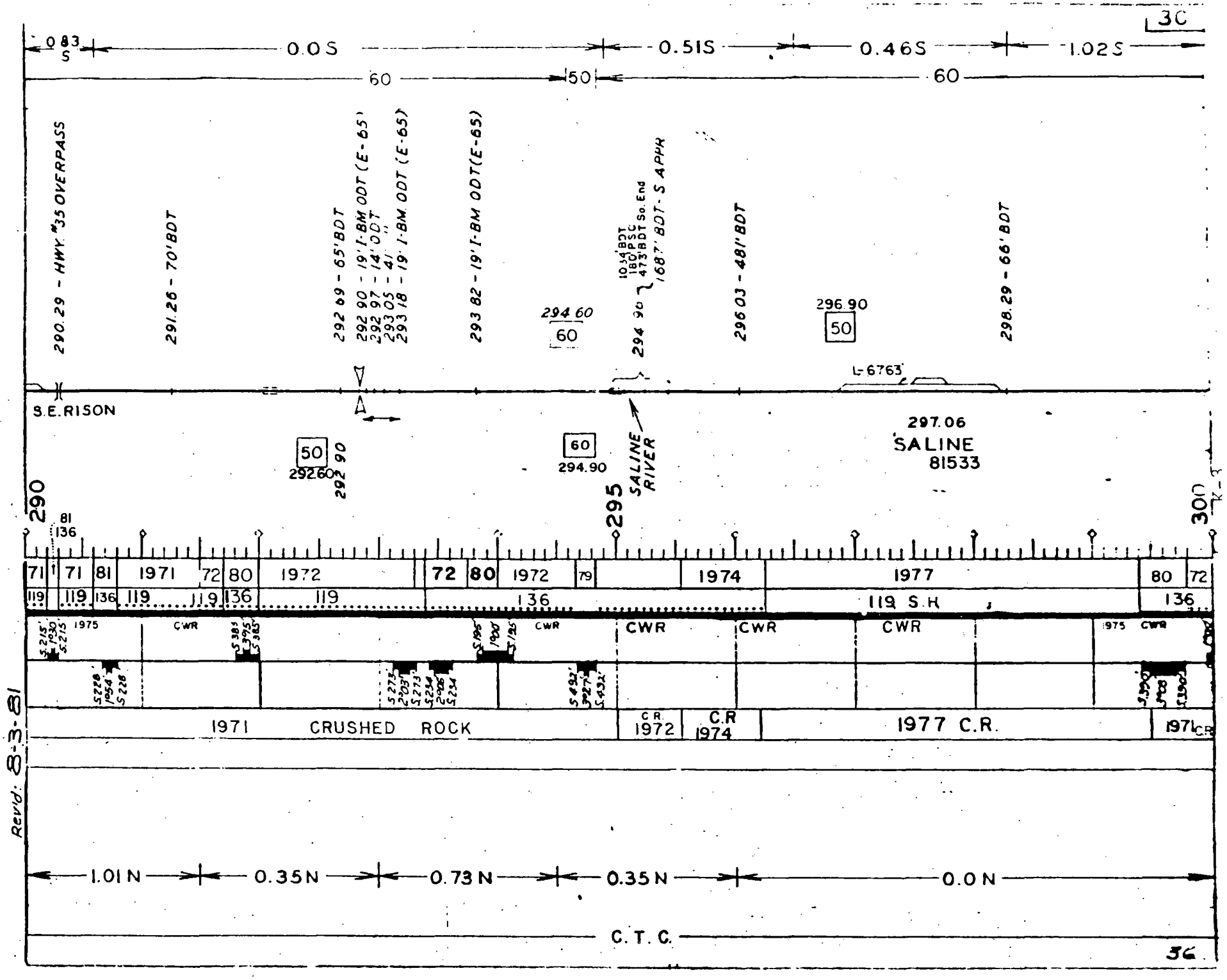
SPECIFICATIONS ON THE LOCOMOTIVES

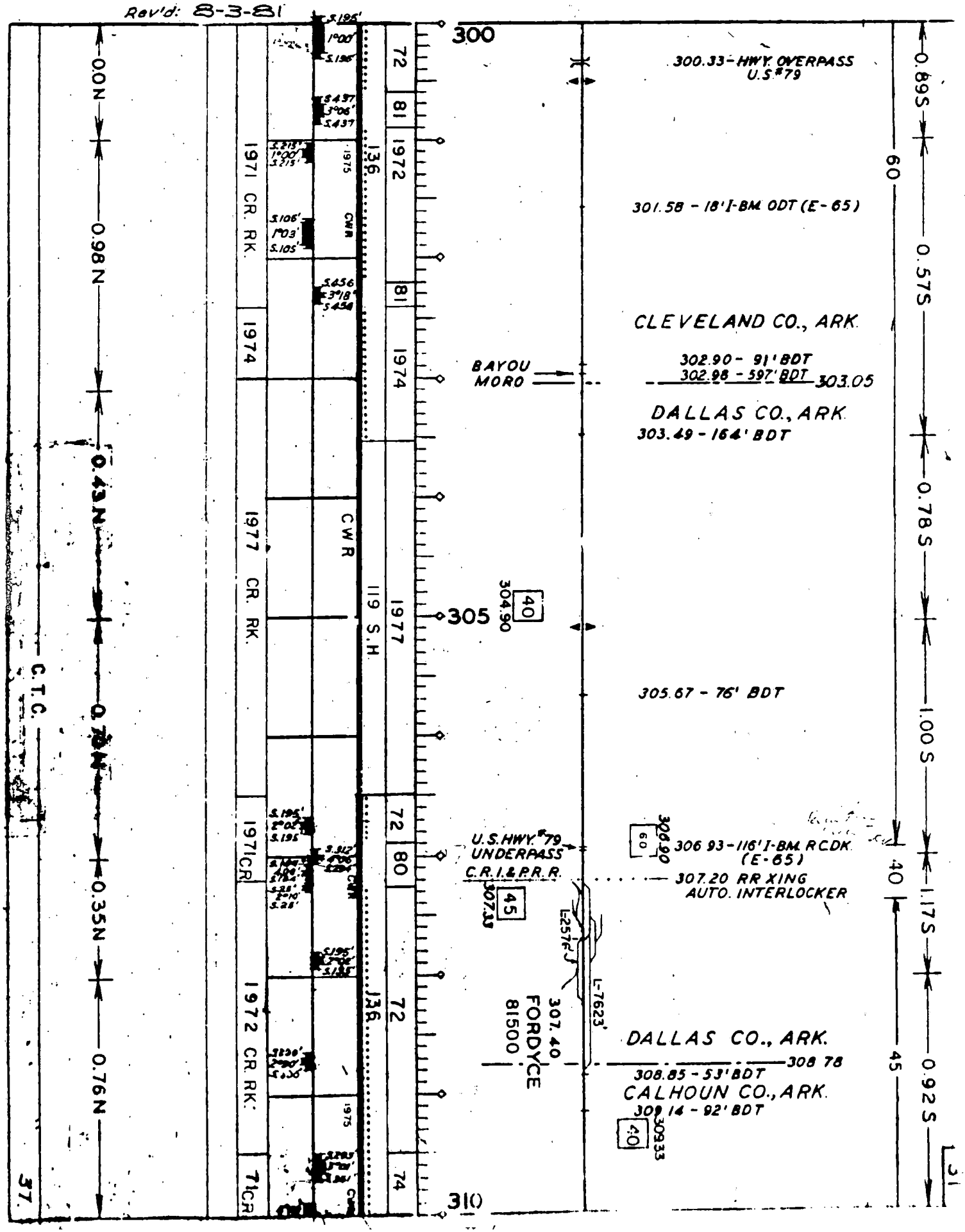
The locomotive consist was comprised of five diesel-electric 4-axle units as follows:

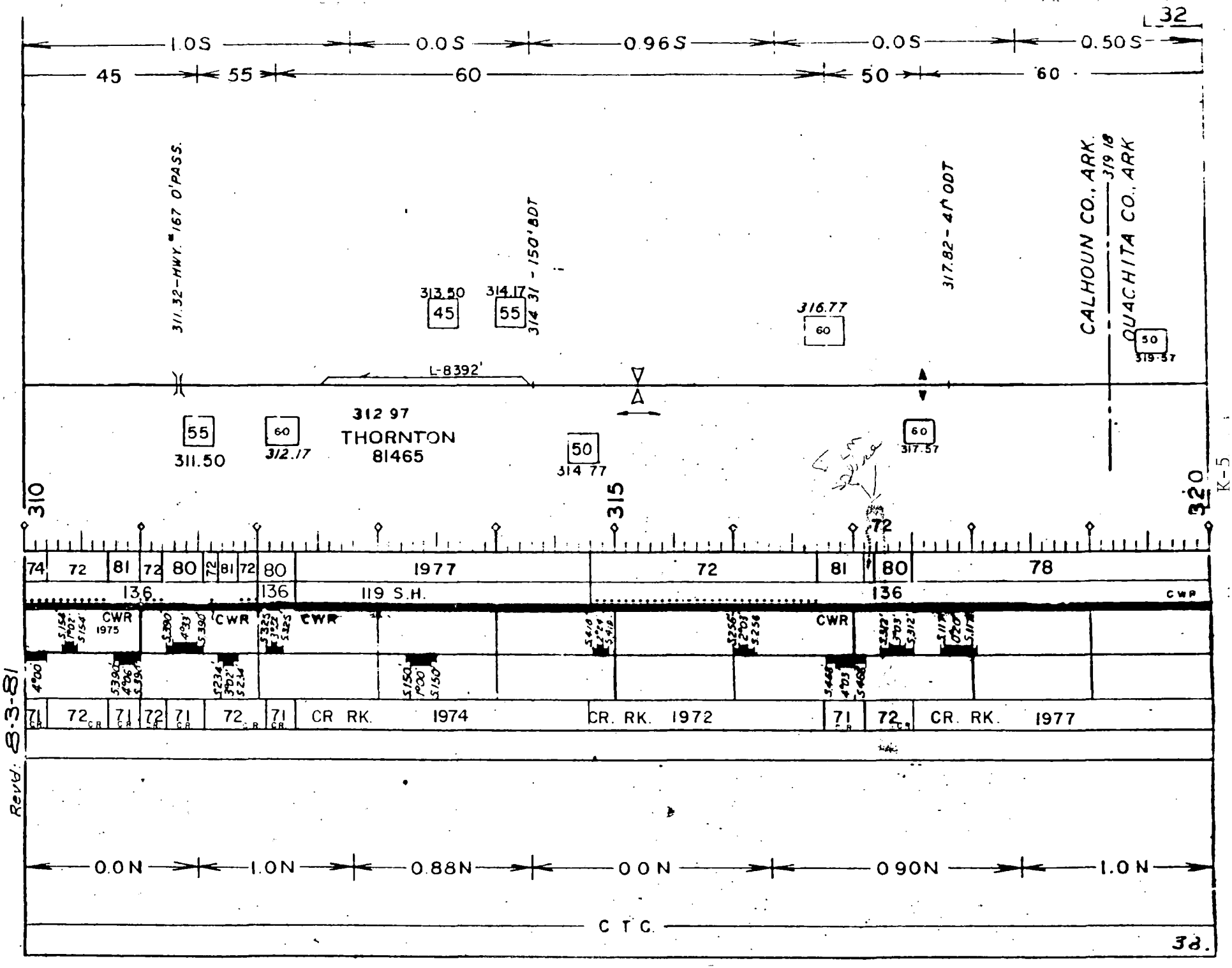
Init. & No.	Model	Manufacturer	H.P.	Gross Wt.	Brake Schedule
L&N 1045	GP-30	Electromotive Division	2250	250,000 lb	26-L
L&N 1013	GP-30	Electromotive Division	2250	250,000 lb	26-L
SCL 515	GP-38-2	Electromotive Division	2000	265,000 lb	26-L
L&N 510	GP-9	Electromotive Division	1750	248,650 lb	24-RL
L&N 4129	GP-38-2	Electromotive Division	2000	256,000 lb	26-L

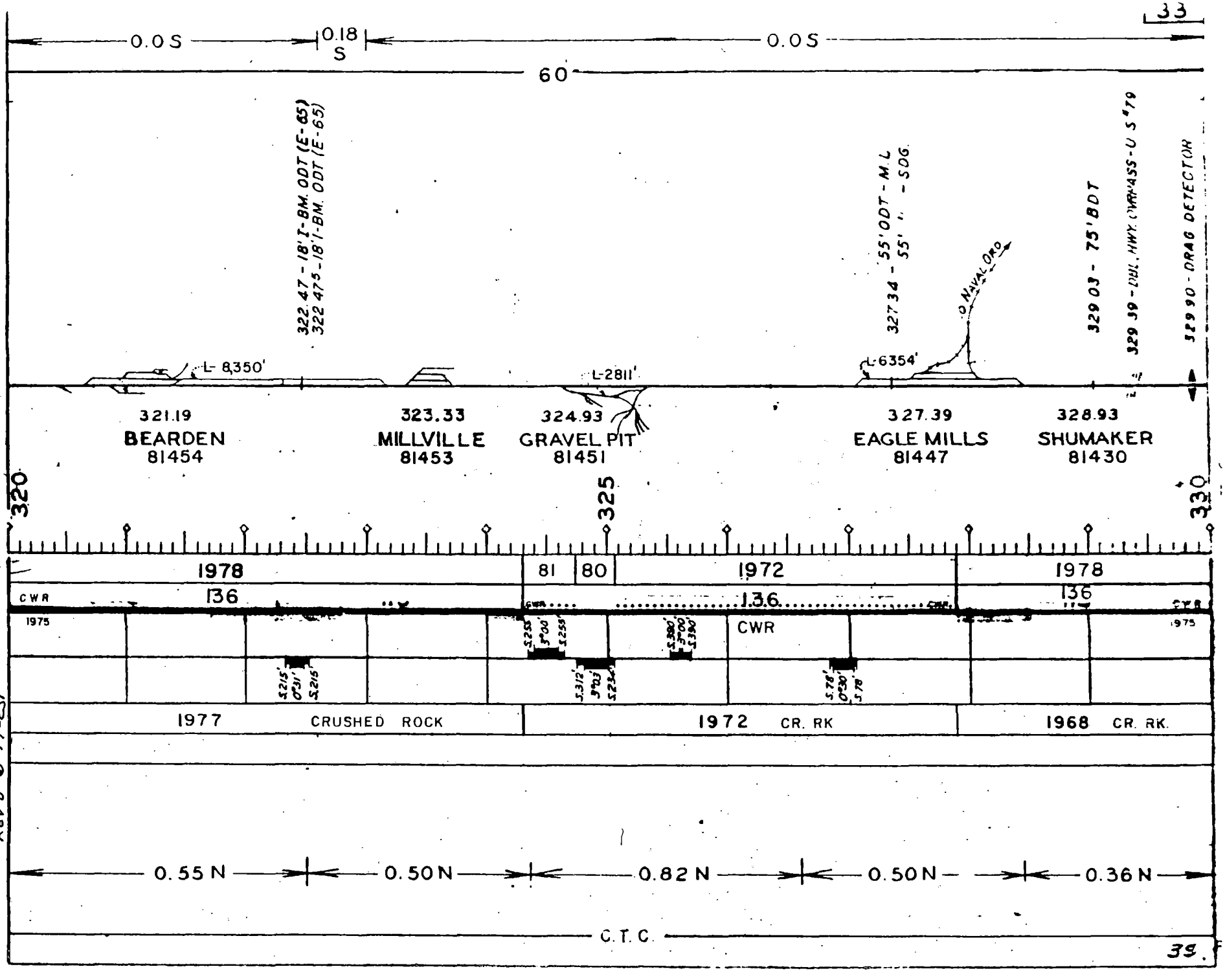

28
0.12 S
0.94 S
0.20 S
0.85 S
0.10 S
0.20 S
50
60
SOUTH ONLY
11' RGT- BOBO SPUR
271.10
20
271.30 - 15'T-BM ODT (E-65')
271.78 - 100' BDT
271.88 - 198' BDT
272.14 - 127' BDT
272.30 - 98' BDT
277.03 - 52' BDT
279.09 - 78' BDT
279.46 - 319' BDT
L-1,003'
263.31
S. PINE BLUFF
81565
60
271.33
L-737'
RONE
270
275
280
1981
136
1970
1974
1967
1971
7771
79
1971
112 SH
136
112 SH
119
136
119
1975
CWR
CWR
CWR
CWR
1975
1976 C.R.
CRUSHED ROCK
1980
Revised: 8-3-81
0.80 N
0.06 N
0.83 N
0.90 N
0.27 N
R.D HOOVER
DIST. MAN.
F. M. REINHART- DISTRICT MANAGER
C.T.C.
74


29
0.02 S
0.60 S
0.90 S
0.78 S
0.50 S
50
60
60
40
60
SOUTH ONLY
JEFFERSON CO., ARK.
281.72
CLEVELAND CO., ARK.
281.93 - 178' BDT
282.87 - 194' BDT
283.50
50
283.63 - 705' BDT
283.93 - 155' BDT
284.87 - 79' BDT
286.43
60
289.40
40
L-7371'
280.39
RONE
81552
40
284.43
L-8963'
60
287.40
289.80
RISON
81541
289.73
280
285
290
1981
136
1971
119
74
136
1981
136
70
119
1
70
119
1971
119
80
136
71
119
81
136
CWR 1975
1975 CWR
1971
CRUSHED ROCK
Revd: 8-3-81
0.42 N
0.34 N
0.62 N
0.80 N
0.76 N
0.84 N
C.T.C.
35

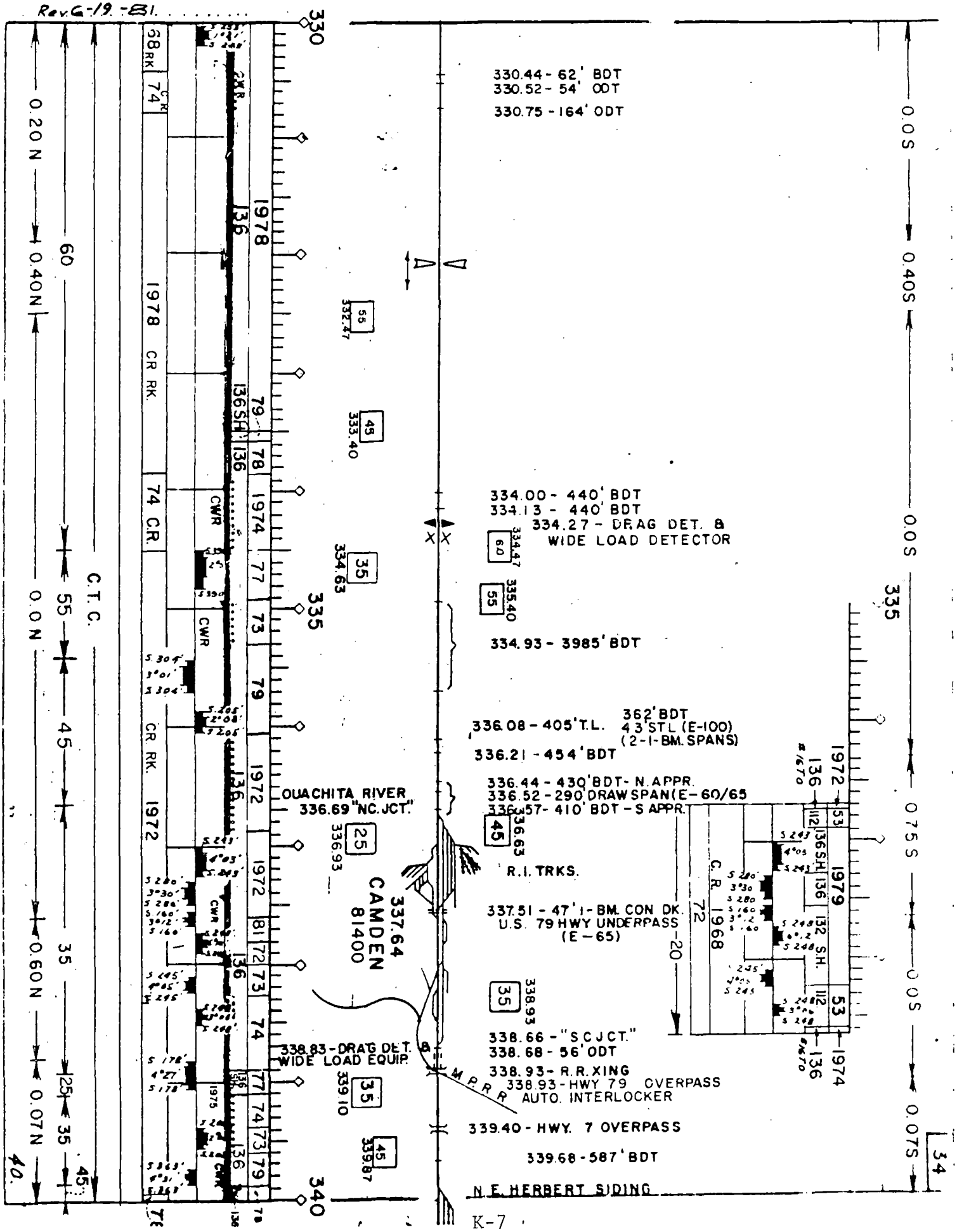

30
0.83 S
0.0 S
0.51 S
0.46 S
1.02 S
60
50
60
290.29 - HWY. #35 OVERPASS
291.26 - 70' BDT
292.69 - 65' BDT
292.90 - 19' I-BM ODT (E-65)
292.97 - 14' ODT
293.05 - 41' "
293.18 - 19' I-BM ODT (E-65)
293.82 - 19' I-BM ODT (E-65)
294.60
60
294.90
10.34' BDT
180' PSC
473' BDT So. End
168.7' BDT - S 4 PHR
296.03 - 48' BDT
296.90
50
298.29 - 66' BDT
L-6763'
S.E. RISON
50
292.60
292.90
60
294.90
SALINE RIVER
297.06
SALINE
81533
290
295
301
81
136
71
71
81
1971
72
80
1972
72
80
1972
79
1974
1977
80
72
119
119
136
119
119
136
119
136
119 S.H.
136
1975
CWR
CWR
CWR
CWR
CWR
1975
CWR
1971 CRUSHED ROCK
C.R. 1972
C.R. 1974
1977 C.R.
1971 C.R.
Revid. 8-3-81
1.01 N
0.35 N
0.73 N
0.35 N
0.0 N
C.T.C.
36

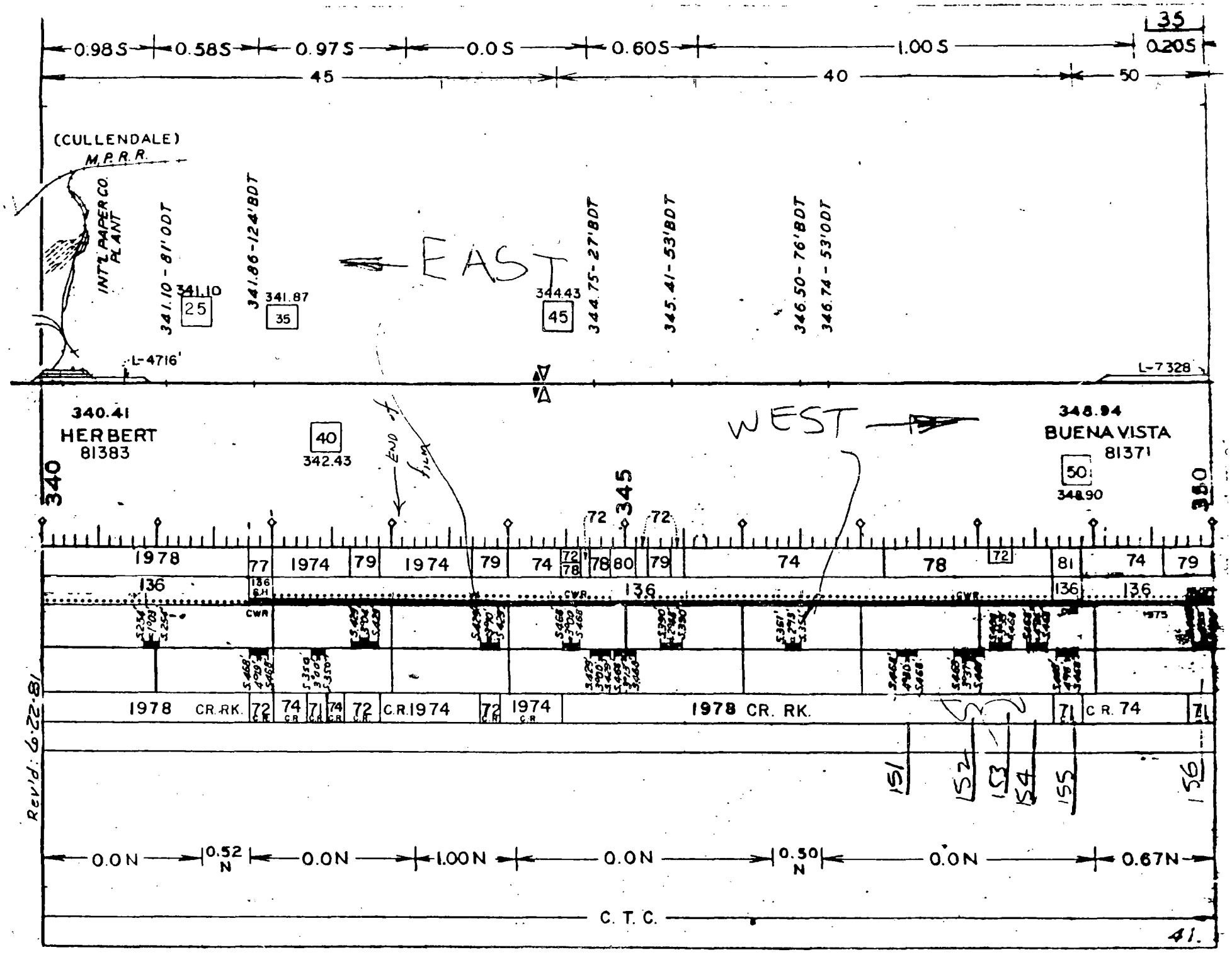

Rev'd: 8-3-81
300
300.33 - HWY. OVERPASS U.S. #79
301.58 - 18' I-BM ODT (E-65)
CLEVELAND CO., ARK.
302.90 - 91' BDT
302.98 - 597' BDT
303.05
BAYOU MORO
DALLAS CO., ARK.
303.49 - 164' BDT
305
304.90
305.67 - 76' BDT
U.S. HWY. #79 UNDERPASS
C.R.I.&P.R.R.
306.93 - 116' I-BM RCDK (E-65)
307.20 RR XING AUTO. INTERLOCKER
307.40
FORDYCE 81500
DALLAS CO., ARK.
308.78
308.85 - 53' BDT
CALHOUN CO., ARK.
309.14 - 92' BDT
310
1971 CR. RK.
1974
1977 CR. RK.
1971 CR
1972 CR. RK.
71 CR
CWR
119 S.H.
136
C.T.C.
0.0 N
0.98 N
0.43 N
0.35 N
0.76 N
0.89 S
0.57 S
0.78 S
1.00 S
1.17 S
0.92 S
60
40
45
37


32
1.0S
0.0S
0.96S
0.0S
0.50S
45
55
60
50
60
311.32-HWY. #167 O'PASS.
313.50
45
314.17
55
314.31 - 150' BDT
316.77
60
317.82 - 4° ODT
CALHOUN CO., ARK.
319.18
OUACHITA CO., ARK
50
319.57
L-8392'
55
311.50
60
312.17
312.97
THORNTON
81465
50
314.77
60
317.57
310
315
320
72
74
72
81
72
80
72
81
72
80
1977
72
81
80
78
136
136
119 S.H.
136
CWR
CWR
1975
CWR
CWR
CWR
71
72
71
72
71
72
71
CR RK.
1974
CR. RK. 1972
71
72
CR. RK.
1977
0.0N
1.0N
0.88N
0.0N
0.90N
1.0N
C T C.
Revd. 8-3-81
K-5
38.


0.0 S
0.18 S
0.0 S
60
322.47 - 18' I-BM. ODT (E-65)
322.475 - 18' I-BM. ODT (E-65)
327.34 - 55' ODT - M.L
55' " - SOG
NAVAL ORD
329.03 - 75' BDT
329.39 - CBL. HWY. OVERPASS - U S 79
329.90 - DRAG DETECTION
L- 8,350'
L-2811'
L-6354'
321.19
BEARDEN
81454
323.33
MILLVILLE
81453
324.93
GRAVEL PIT
81451
327.39
EAGLE MILLS
81447
328.93
SHUMAKER
81430
320
325
330
1978
81
80
1972
1978
CWR
136
136
136
1975
CWR
1975
1977
CRUSHED ROCK
1972
CR. RK
1968
CR. RK.
0.55 N
0.50 N
0.82 N
0.50 N
0.36 N
C.T.C.

Rev'd 6-19-81


Rev. 6-19-81.
330.44 - 62' BDT
330.52 - 54' ODT
330.75 - 164' ODT
334.00 - 440' BDT
334.13 - 440' BDT
334.27 - DRAG DET. 8
WIDE LOAD DETECTOR
334.93 - 3985' BDT
336.08 - 405' T.L.
362' BDT
43' STL (E-100)
(2-1-BM. SPANS)
336.21 - 454' BDT
336.44 - 430' BDT - N. APPR.
336.52 - 290' DRAW SPAN (E-60/65
336.57 - 410' BDT - S APPR.
R.I. TRKS.
337.51 - 47' 1-BM. CON DK.
U.S. 79 HWY UNDERPASS
(E-65)
338.66 - "S C JCT."
338.68 - 56' ODT
338.93 - R.R. XING
338.93 - HWY 79 OVERPASS
AUTO. INTERLOCKER
339.40 - HWY. 7 OVERPASS
339.68 - 587' BDT
N.E. HERBERT SIDING
OUACHITA RIVER
336.69 "NC. JCT."
337.64
CAMDEN
81400
338.83 - DRAG DET. 8
WIDE LOAD EQUIP.
M P R R
C.T.C.
C.R. 1968
C.R. 1978
C.R. 1972
C.R. 1974
C.R. 1979
C.R. 1975
C.R. RK.
CWR
136 S.H.
132 S.H.
0.20 N
0.40 N
0.60 N
0.07 N
0.0 N
0.0 S
0.40 S
0.75 S
0.07 S
330
335
340


35
0.98S
0.58S
0.97S
0.0S
0.60S
1.00S
0.20S
45
40
50
(CULLENDALE)
M.P.R.R.
INT'L PAPER CO. PLANT
341.10 - 81' ODT
341.86 - 124' BDT
344.75 - 27' BDT
345.41 - 53' BDT
346.50 - 76' BDT
346.74 - 53' ODT
341.10
25
341.87
35
344.43
45
EAST
L-4716'
L-7328
340.41
HERBERT
81383
40
342.43
END of FILM
WEST
348.94
BUENA VISTA
81371
50
348.90
340
345
350
72
72
1978
77
1974
79
1974
79
74
72
78
80
79
74
78
72
81
74
79
136
136
CWR
136
CWR
136
136
1978 CR. RK.
72
74
71
74
72
C.R. 1974
72
1974
1978 CR. RK.
71
C.R. 74
71
151
152
153
154
155
156
0.0N
0.52 N
0.0N
1.00N
0.0N
0.50 N
0.0N
0.67N
C. T. C.
Rev'd: 6-22-81
41.

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