

PE03-044
FORD
5/13/2005
APPENDIX I
BOOK 1 OF 28
PART 1 OF 4

From: Carter, Roscoe (R.O.)
Sent: Monday, December 09, 2002 8:58 AM
To: Gaw, Ron (R.M.)
Cc: Simko, Steven (S.I.); Nicastri, Paul (P.R.)
Subject: Spectrum InWord doc

Ron,

Here is the figure you requested. I have included the comments needed for a chemist to understand how the data was generated and documenting the source of the oil. I hope this serves the need to clarify the



Doc3.doc

tube issue with NYE and Wabash. Let me know how it works out. ROC

U137 Adjustable Pedals + Job 1 PPAF Roadmap

Used steel: 80% pre-2000

U137 Adjustable Pedals - Job 1 PPAP Readme

Updated : 07/07/2020 10:00 AM

Updated 07/07/2013 10:00 AM

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UH62 Adjustable Pedals • Job 1 PPAJ® Roadmap

Upcoming Events 1304.htm

Books + Computers
On Sale

U137 Adjustable Pedals - Job 1 PPAP Roadmap

Updated: 01/08/2013 09:59 pm.

- Teleplex: Susan Young

AM37 Adjustable Pedestal - Job 1 PPAP Roadmap

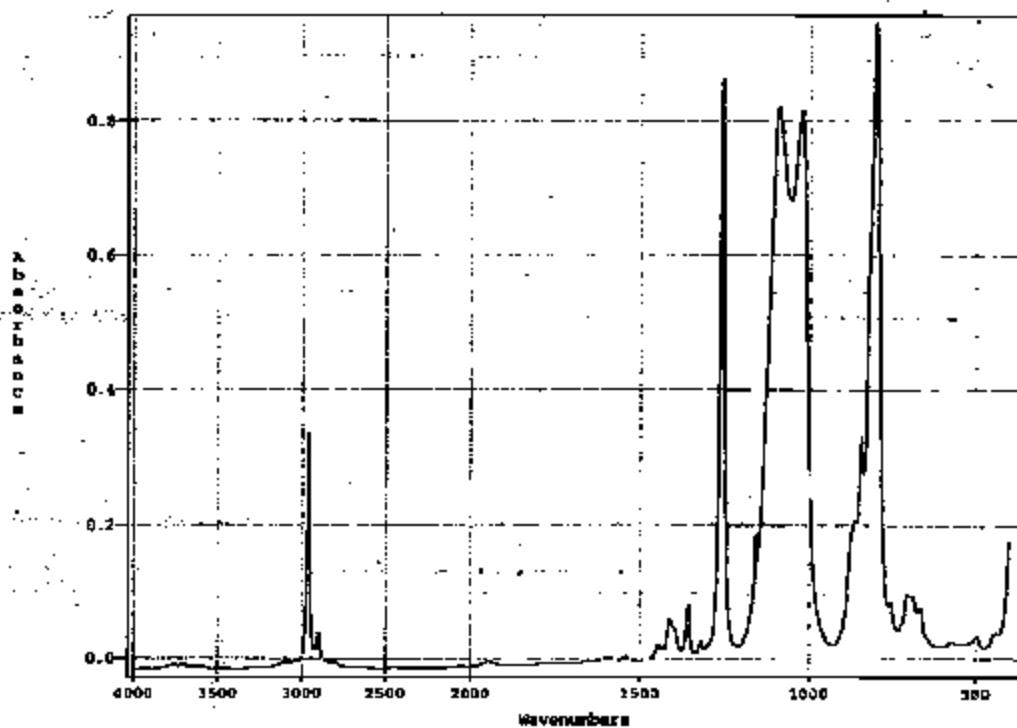
Издательство АСТ

Action Plan for fall outs.
Sceil Pedale

adde moltege)

Sept 6 - need tinsions

1 page: part



Above find the mid-infrared molecular vibrational spectrum of the oil supplied by Wabash from their Huntington IN plant. This is the oil used by FRL to perform the wear study. This spectrum was obtained with the sample presented as a thin film on a KBr window in transmission. Contributions from the substrate have been minimized by recording the substrate only spectrum and subtracting it from the sample-on-substrate spectrum. The resulting spectrum is identical to those obtained from the material removed by solvent washing from ETC sector boards.

From: Gaw, Ron (R.M.)
Sent: Monday, December 16, 2002 7:48 AM
To: Carter, Roscoe (R.O.)
Cc: Simko, Steven (S.J.)
Subject: FW: IR's for M25 & M-Sil (Wabash/Ford)



MSIL500.jpg



MSIL-M25.jpg



M25UV.jpg

Roscoe,

Below is the response from NYE on the FRL lab report. Please take a moment and read the comments of Mr. Brian Cichoski (2nd email included below) regarding the testing. Perhaps you and I will need to sit down and discuss this, since I am not clear on what NYE is saying relative to the issues here.

Regards,
Ron Gaw
PTSE D&R
Electronic Throttle Controls Design & Release.
Ph. #: 313 390-5756 Fax. #: 313 248-2558
Pager #: 313 795-3909

-----Original Message-----

From: Brown, Todd [mailto:tbrown@wabashtech.com]
Sent: Monday, December 16, 2002 7:39 AM
To: Ron Gaw {E-mail}
Cc: Kathy Zolan {E-mail}; John Fiorini (J.J.) {E-mail}
Subject: FW: IR's for M25 & M-Sil (Wabash/Ford)

Ron,

Here is the latest from our supplier, Ney, regarding the IR results on the element lube. They have compared methyl silicone to their oil and find no significant difference. They have a few questions below. Please forward this to FRL and get a reply.

Thanks,

Todd A. Brown
Wabash Technologies
Engineering Manager
Resistive and Active Sensor Products
1375 Swan St.
Huntington, IN 46750
Ph. (260) 355-4256
Fx. (260) 355-4266

-----Original Message-----

From: Brian Cichoski [mailto:cichoski@atdial.net]
Sent: Friday, December 13, 2002 9:58 AM
To: Brown, Todd
Subject: Fw: IR's for M25 & M-Sil (Wabash/Ford)

PE03-B44 24231

Todd,

Attached are some FTIR's of M25 which as you know is a form of Silicone, a Methylel Silicone FTIR, and finally an overlay of both FTIR's. You will not see much of a difference between the two because they are both still forms of Silicones. As I mentioned earlier Cl will not show a spika because of the small percentage in the M25. Mye uses a UV test to identify the presence of the Cl in the M25 oil, which we know that Ford did not test only the FTIR.

Speaking with my lab technician she asked me if the Ford FTIR's were using a common scale when they overlaid the two plots, and that the span of wave length numbers is a fair distance apart of 500 nm. My Technical Director will return from out of Country next week, and he will reveiw the Ford report in more detail.

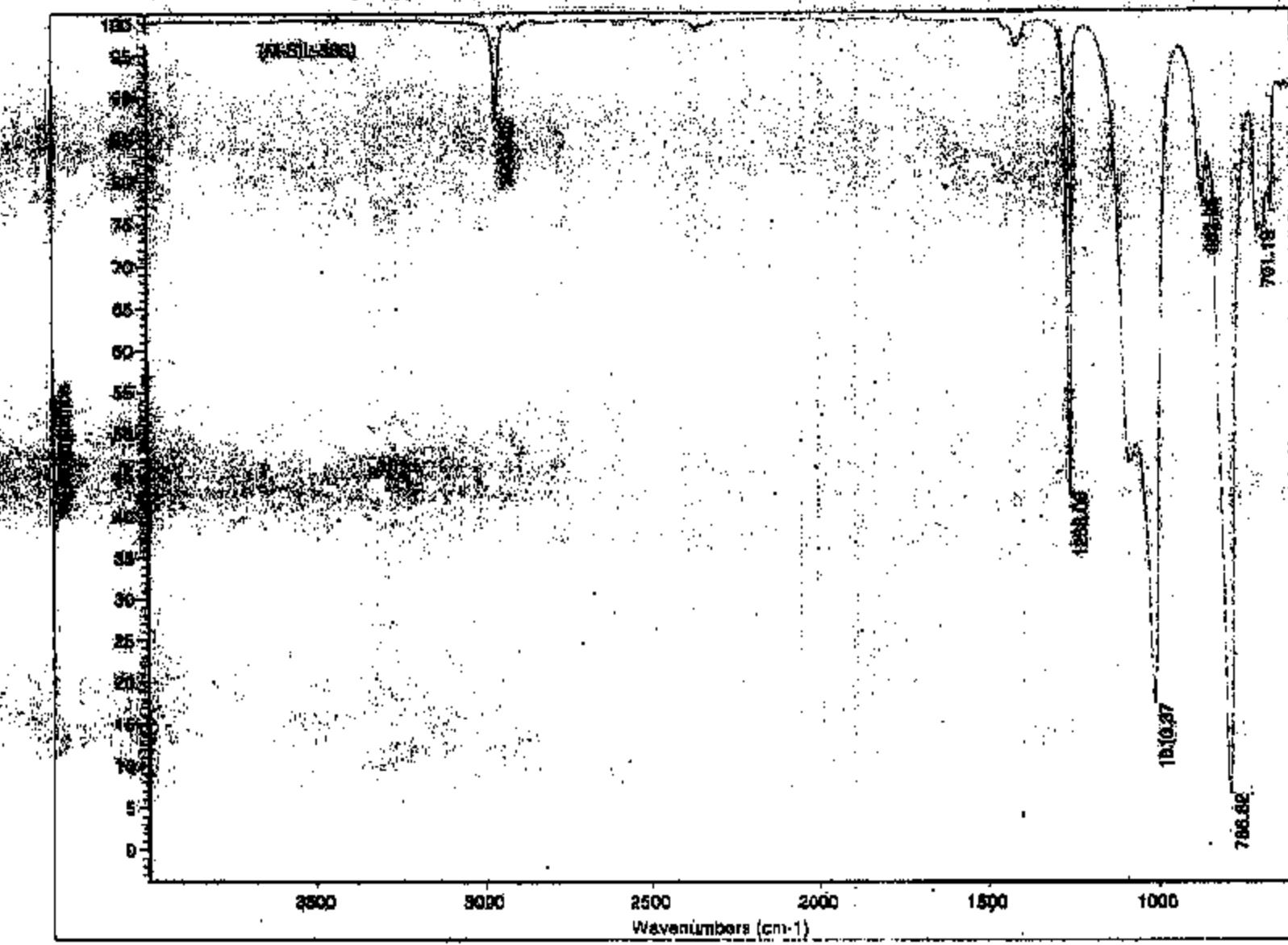
Anyway I hope these plots help, but if not ask your questions. Lastly do we want to meet next week to discuss commonizing lubricants for future projects at Wabash throughout the globe?

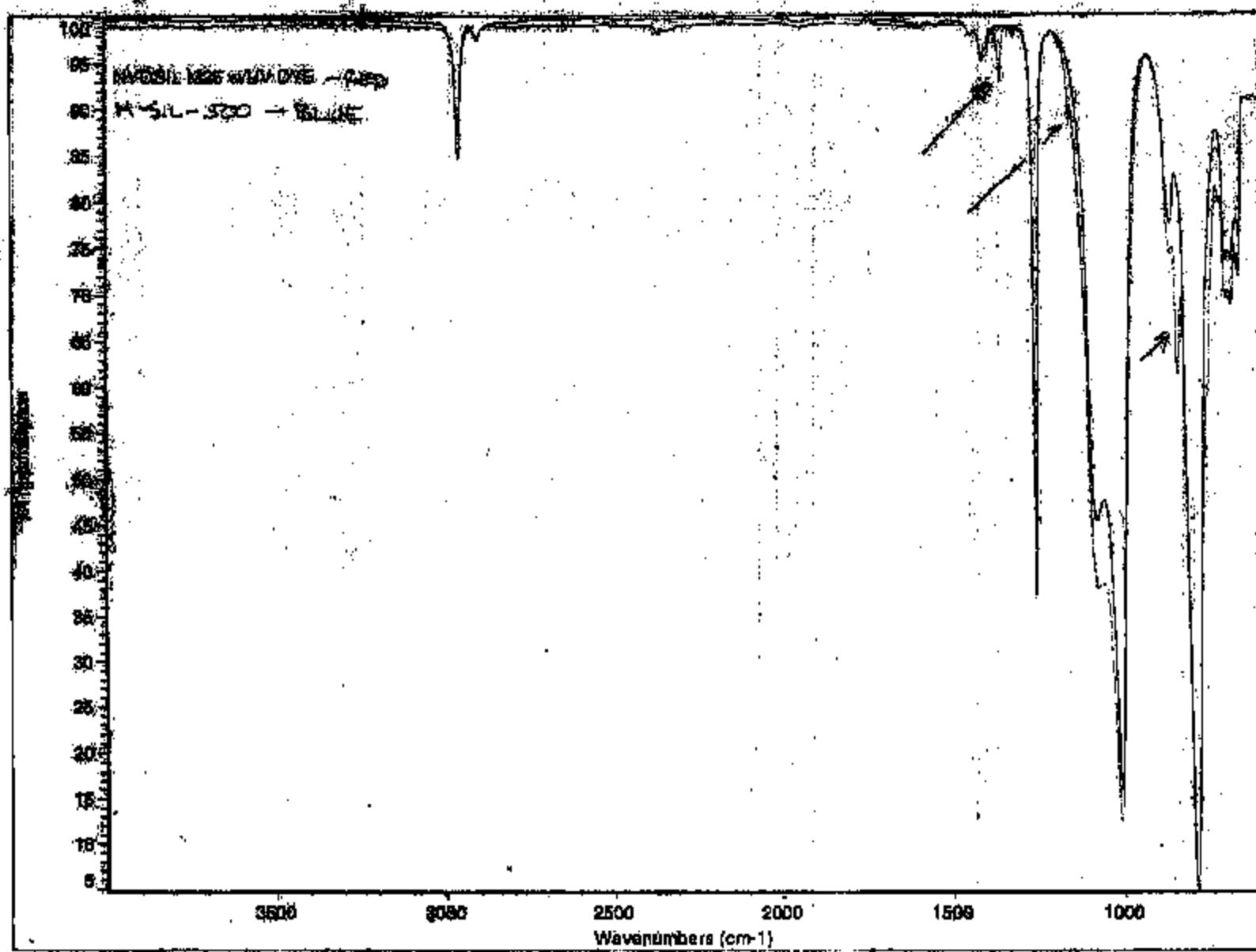
regards,

Brian

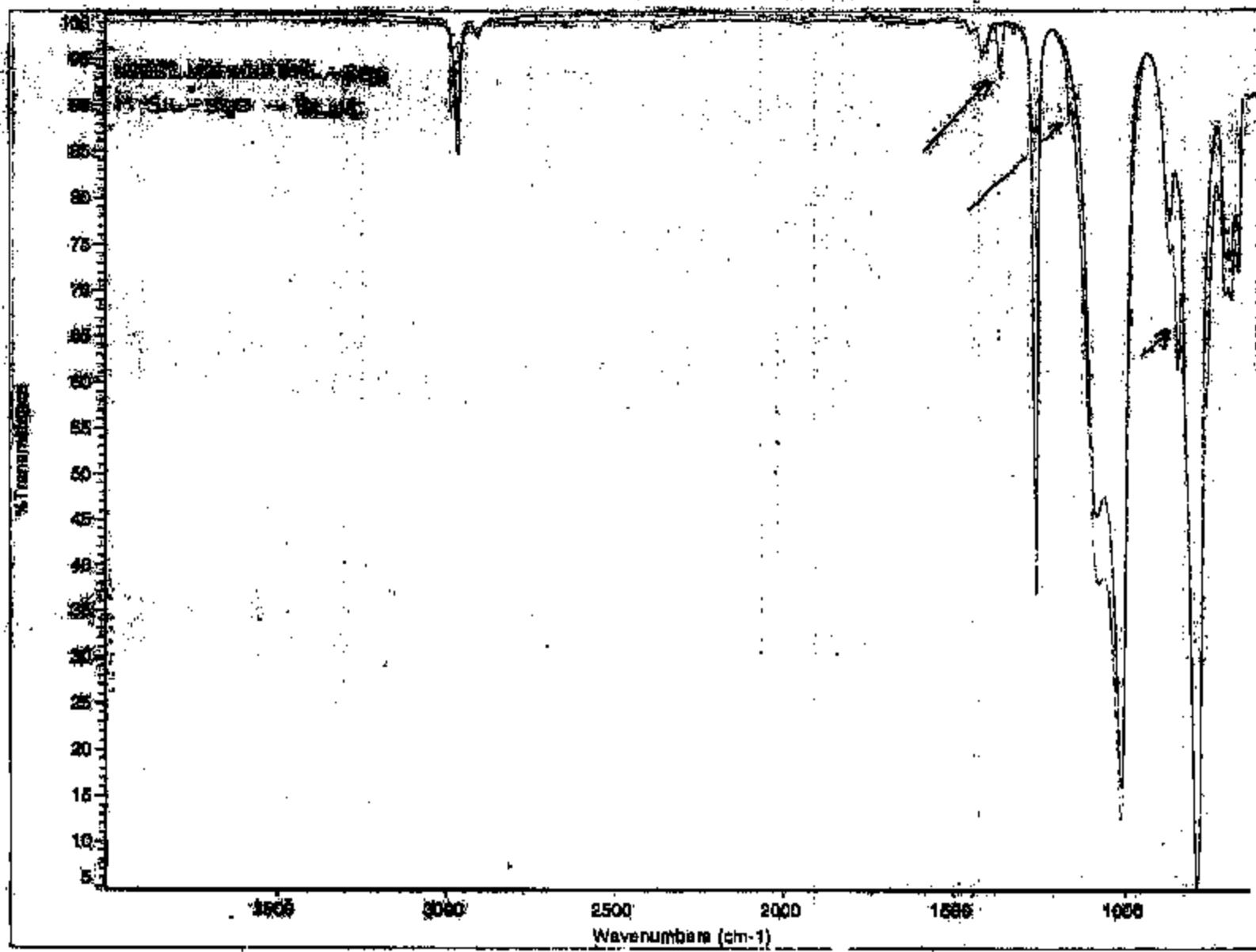
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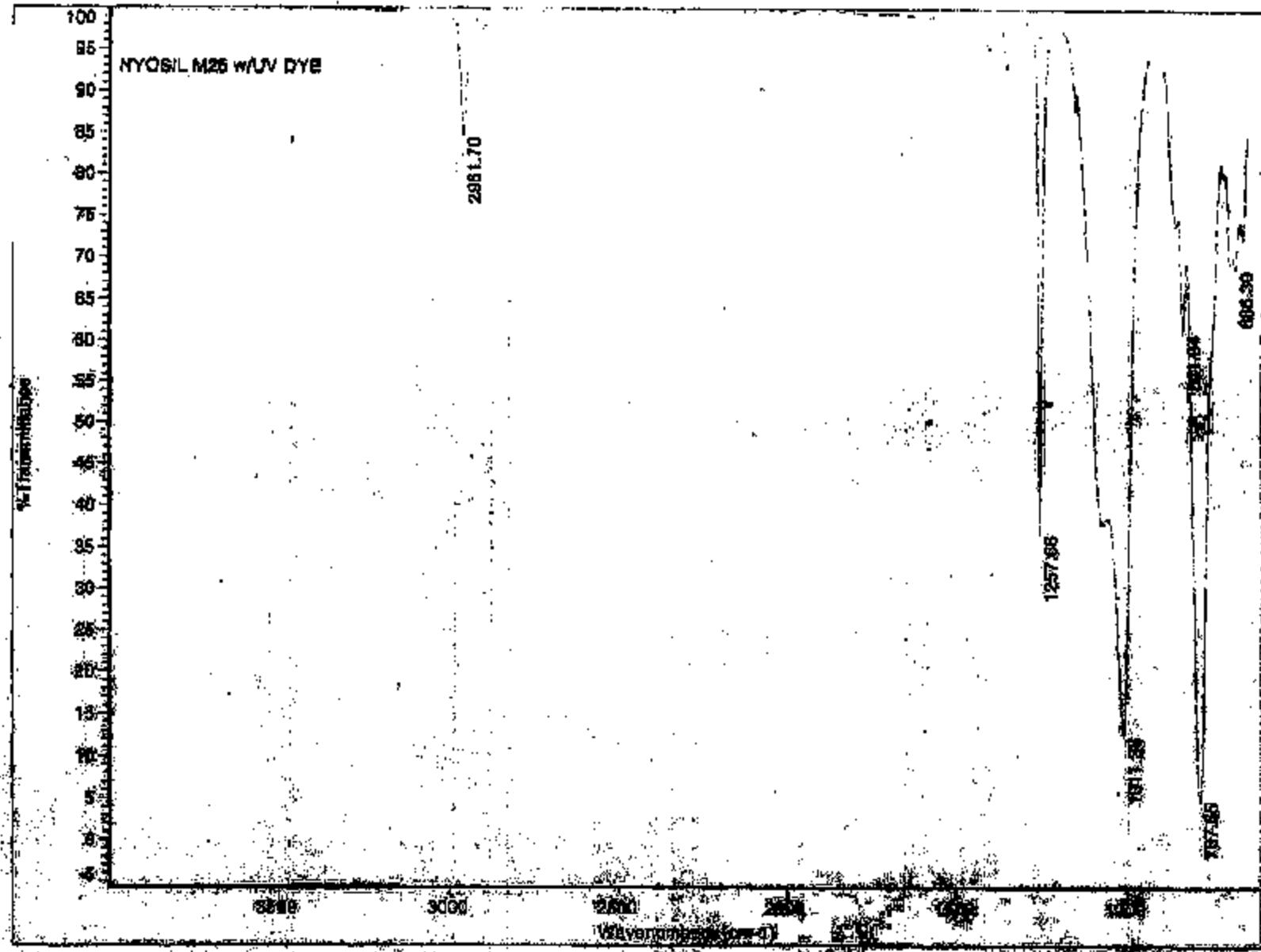
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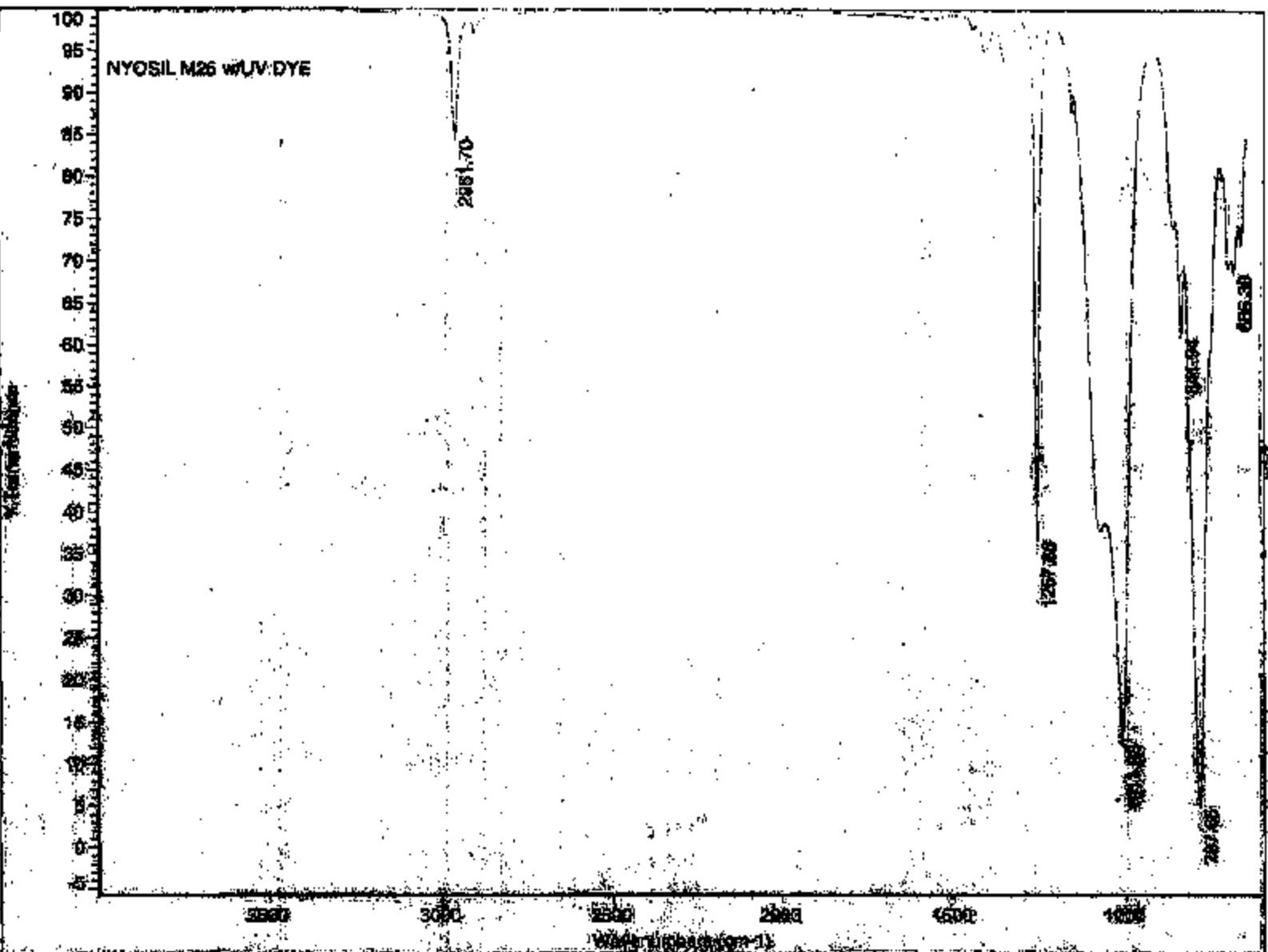


PED-644-A224





PB93-844 24236



PERS-D44 24237

From: Heaton, Christopher (C.E.)
Sent: Tuesday, October 29, 2002 4:31 PM
To: Gow, Ron (R.M.); Nicastri, Paul (P.R.); Carter, Roscoe (R.O.); Smko, Steven (S.J.)
Subject: ETC

Ron,

I have completed the teardown of the Electronic Throttle Control. The contact fingers did not seem to experience the severe wear that the pedals from the previous issue had. One thing that stood out is the plastic rivet to the board that crossed over one of the resistance tracks. This problem caused the fingers on that track (the one farthest from the pivot point) to bend and not make contact with the track in certain areas. I also noticed that the fingers on the adjacent rider were bent as well. This may be because the two finger sets are part of the same piece of metal. I have included a picture that shows the finger bends. I have passed the sample on to Roc Carter for chemical analysis.



Bench test failure
#1 (16) M...

Christopher E. Heaton
cheaton@ford.com
Research Engineer
Vehicle Electronics and Systems Dept.
Ford Research Laboratory
Phone: (313)845-4214 Fax: (313)829-8239



PES3-B44 25365

From: Gaw, Ron (R.M.)
Sent: Tuesday, October 29, 2002 4:38 PM
To: Chesney, Craig (G.D.); 'jzych@fixauto.com'; 'kzeelen@fixauto.com'
Cc: Heaton, Christopher (C.E.); Nicastri, Paul (P.R.); Carter, Roscoe (R.O.); Simko, Steven (S.J.)
Subject: FW: ETC

This is the first report back from Ford's experts over at FRL regarding the recently failed DEW Teleflex ETC pedal. Please review the comments and the attached picture (.tif format). John Zych, isn't Track 3 the one closest to the Pivot? This issue with the plastic mounting stake on the circuit board affects the circuit farthest from the pivot.

Regards,

Ron Gaw
PTSE D&R

Electronic Throttle Control Design & Release
Ph. # 313 390-5750 Fax # 313 248-2558
Pager # 313 795-3909

-----Original Message-----

From: Heaton, Christopher (C.E.)
Sent: Tuesday, October 29, 2002 4:31 PM
To: Gaw, Ron (R.M.); Nicastri, Paul (P.R.); Carter, Roscoe (R.O.); Simko, Steven (S.J.)
Subject: ETC

Ron,

I have completed the teardown of the Electronic Throttle Control. The contact fingers did not seem to experience the severe wear that the pedals from the previous issue had. One thing that stood out is the plastic rivet to the board that crossed over one of the resistance tracks. This problem caused the fingers on that track (the one farthest from the pivot point) to bend and not make contact with the track in certain areas. I also noticed that the fingers on the adjacent rider were bent as well. This may be because the two finger sets are part of the same piece of metal. I have included a picture that shows the finger bends. I have passed the sample on to Roc Carter for chemical analysis.



Bench test failure
#1 (16).tif...

Christopher E. Heaton
cheaton@ford.com
Research Engineer
Vehicle Electronics and Systems Dept.
Ford Research Laboratory
Phone: (313)845-4214 Fax: (313)323-8259

PEN3-844 25357

From: Heaton, Christopher (C.E.)
Sent: Tuesday, October 29, 2002 5:13 PM
To: Gaw, Ron (R.M.); Nicastri, Paul (P.R.); Carter, Roscoe (R.O.); Simko, Steven (S.J.)
Cc: Heaton, Christopher (C.E.)
Subject: ETC

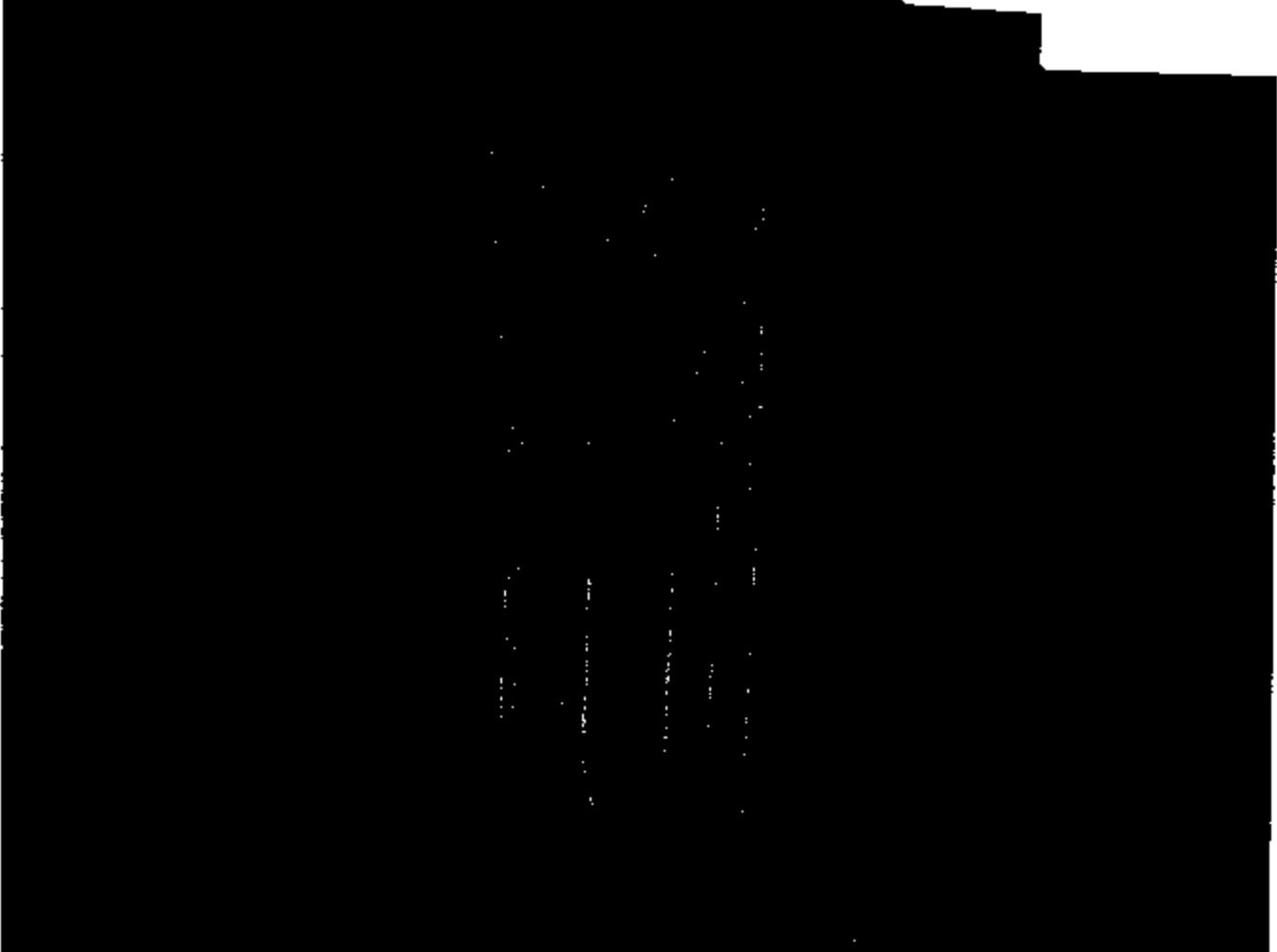
Ron,

I am including a picture of the heat stake over the resistance track. Also, I forgot to mention that the resistance readings that you requested ranged from 10 milliohms to 39 milliohms. The method used was not the most exact measurement technique possible. However, I believe that if you were concerned about high resistance at the solder points, these readings are close to what would be expected.



Bench test fixture
#1 (B).tif

Christopher E. Heaton
cheaton@ford.com
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Vehicle Electronics and Systems Dept.
Ford Research Laboratory
Phone: (313)845-4214 Fax: (313)823-6239



PB03-044 23388

From: Gav, Ron (R.M.)
Sent: Friday, November 01, 2002 7:37 AM
To: Chesney, Craig (C.D.); Gibson, James (J.K.); Fiorini, John (J.J.); Sheth, Rakesh (B.); Lipsky, Lawrence (L.L.)
Cc: Heaton, Christopher (C.E.)
Subject: FW: ETC

FYI

—Original Message—

From: Carter, Roscoe (R.O.)
Sent: Thursday, October 31, 2002 4:26 PM
To: Heaton, Christopher (C.E.); Gav, Ron (R.M.); Nicastri, Paul (P.R.); Simko, Steven (S.J.)
Subject: RE: ETC

All,

I have completed the analysis on the two greases found on the parts in the DEW pedal assembly. My conclusions are in the attached doc with the spectra. I will return the parts that Steve did not take to Chris.



DEW pedal.doc

ROCartar

—Original Message—

From: Heaton, Christopher (C.E.)
Sent: Tuesday, October 29, 2002 5:13 PM
To: Gav, Ron (R.M.); Nicastri, Paul (P.R.); Carter, Roscoe (R.O.); Simko, Steven (S.J.)
Cc:
Subject: ETC

Ron,

I am including a picture of the heat stake over the resistance track. Also, I forgot to mention that the resistance readings that you requested ranged from 10 milliohms to 38 milliohms. The method used was not the most exact measurement technique possible. However, I believe that if you were concerned about high resistance at the solder points, these readings are close to what would be expected.

<< File: Bench test failure #1 (8).tif >>

Christopher E. Heaton
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Ford Research Laboratory
Phone: (313)845-4214 Fax: (313)323-8239

Happy Halloween

10/31/2002

Results of molecular analysis of lubricants used in DSW electronic pedal position sensor and box.

The lubricant on the rub bar that supports the end of the finger carrier away from the pivot was so abundant that it could be removed with a spatula and transferred to an infrared transparent window for analysis in the infrared spectrometer. This lubricant consisted of a hydrocarbon with a silica based filler and a minor amount of silicone contaminant. The corresponding spectrum is reproduced in Figure 1.

The lubricant on the ceramic board that contains the resistance traces for the potentiometers was removed by solvent vapor rinsing with hexane. This lubricant was found to be a methylmethacrylate. The infrared spectrum of this material is contained in Figure 2.

As a preliminary conclusion, there are at least two lubes inside the sensor box. These two lubes have potential compatibility issues. There seems to be some intermixing of the silicone on the rub bar but there is no evidence of the hydrocarbon on the ceramic board.

I have passed the board on to Steve Simko for analysis of the tracks after extensively rinsing the surface to remove even residual silicone.

RCCarter

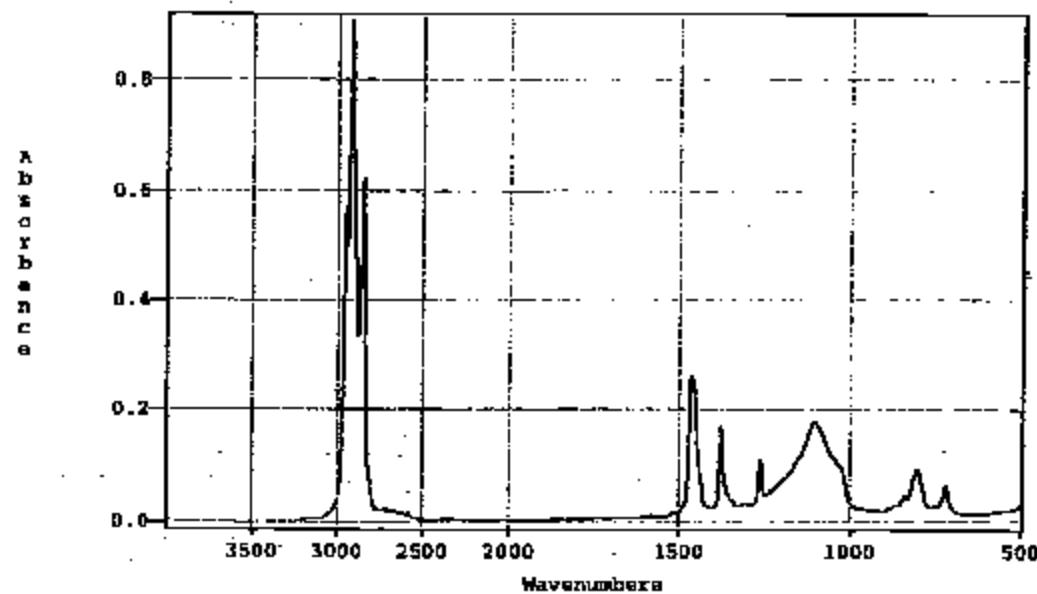


Figure 1 Lubricant removed from plastic support bar on cover piece of sensor box.

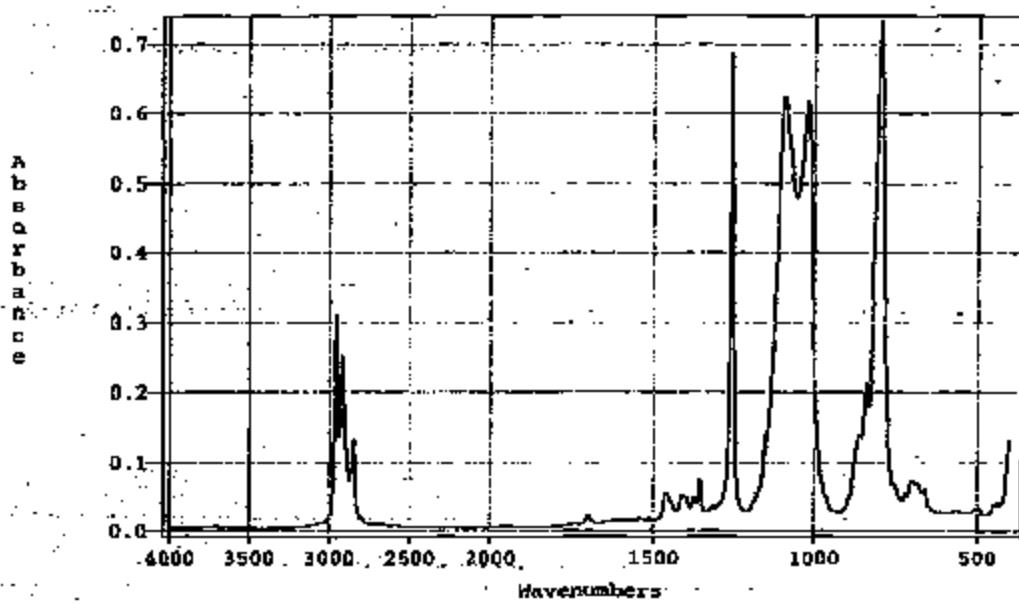


Figure 2 Lubricant removed from ceramic board.

From: Gaw, Ron (R.M.)
Sent: Monday, November 04, 2002 8:31 AM
To: Brennan, Patrick (P.M.); Carter, Roscoe (R.O.); Conrad, James (J.A.); Fiorini, John (J.J.); Gilkey, James (J.K.); Heaton, Christopher (C.E.); Jainapur, Raghav (R.); John Zych (E-mail); Kathy Zolan (E-mail); Khan Zulqarnain (E-mail); Laposky, Lawrence (L.J.); Schmitz, Pete (P.J.); Sheth, Pakesh (B.); Simko, Steven (S.J.); Todd Brown (E-mail)
Subject: Output measurements data from Side Load testing for last 33 pedals tested

Here is the data Kathy Zolan sent to Ford 7:45AM 11/4. [NOTE To Kathy: I renamed the file]



Product_Test_Repo
rt_11-4-2002..

Ron Gaw
PTSE D&R

Electronic Throttle Control Design & Release
Ph. # 313 390-5756 Fax. # 313 248-2568
Pager # 313 795-3909

ENTIRE PAGE
CONFIDENTIAL

FUNCTIONALS PRODUCT TEST REPORT

	SAMPLE #	PPB1 IDLE	PPB2 IDLE	PPB3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
Dew 98 DV KLT Line	1	81.344	29.263	18.543	28.988	70.57	59.639	1.031	0.28	0.751	-0.283	-0.348
	2	81.273	29.338	18.618	28.413	70.89	60.18	0.885	0.279	0.805	-0.611	-0.203
	3	81.5	29.212	18.379	28.518	70.734	59.925	1.238	0.167	1.071	-0.419	0.18
	4	81.413	29.16	18.501	28.764	70.84	59.827	1.203	0.34	0.882	0.409	-0.484
	5	81.758	29.078	18.318	27.101	70.891	59.775	1.83	0.239	1.391	0.311	-0.331
	6	81.382	29.401	18.509	27.18	70.609	59.741	0.941	0.109	0.833	0.288	0.248
Dew 98 after 500K Life	1	81.435	29.181	18.423	27.161	70.447	59.542	1.204	0.342	0.862	0.35	-0.95
	2	81.489	29.061	18.412	28.056	71.078	60.407	1.377	0.35	1.027	-0.0944	0.482
	3	81.187	29.288	18.881	26.489	70.948	60.059	0.849	0.373	0.478	0.488	-0.53
	4	81.565	28.502	17.81	25.234	72.007	61.684	4.856	0.042	1.708	0.762	0.842
	5	81.582	28.308	18.689	26.807	70.983	59.899	1.113	0.901	0.813	-0.334	-0.485
	6	81.444	29.283	18.586	26.387	71.313	60.368	1.105	0.296	0.809	0.545	-0.378
Dew 98 after 1M Life	1	81.123	29.436	18.77	25.63	71.884	60.429	0.637	0.333	0.303	0.316	-0.652
	2	81.192	29.285	18.612	25.184	71.808	60.9	0.857	0.327	0.53	-0.97	-0.472
	3	80.988	29.543	18.821	25.396	71.72	60.768	0.385	0.276	0.118	0.21	-0.488
	4	81.363	29.007	18	24.177	72.973	62.211	1.306	0.007	1.313	0.911	0.614
	5	81.323	28.854	18.691	26.473	71.24	60.035	0.818	0.277	0.342	-0.482	-0.588
	6	81.349	29.313	18.675	25.881	71.698	60.561	0.988	0.362	0.824	0.572	-0.704
Dew 98 @ 1.5M Life	1	81.034	29.543	18.794	26.544	72.037	60.82	0.441	0.251	0.18	0.442	-0.579
	2	81.087	29.367	18.648	24.808	72.079	61.062	0.67	0.278	0.593	-0.92	-0.604
	3	80.824	28.848	19	24.143	71.906	60.87	0.124	0.352	0.229	0.24	-0.669
	4	81.156	29.106	18.108	23.682	73.218	62.311	1	0.001	1	1.01	0.523
	5	81.176	28.825	18.929	26.012	71.648	60.34	0.501	0.504	0.198	0.385	-0.8
	6	81.215	29.448	18.746	25.548	72.027	60.78	0.718	0.3	0.419	0.598	-0.635
Dew 98 @ 2M Life	1	80.895	29.594	18.678	24.915	72.295	60.687	0.251	0.284	0.033	0.562	-0.784
	2	81.095	28.394	18.589	25.378	71.733	60.69	0.651	0.196	0.455	-0.649	-0.439
	3	80.758	29.704	19.087	25.163	71.871	60.779	0.002	0.363	0.361	0.288	-0.613
	4	81.133	29.196	18.238	24.089	72.941	62.071	0.687	0.042	0.544	0.872	0.454
	5	81.172	28.849	18.965	26.178	71.588	60.206	0.472	0.346	0.126	0.382	-0.869
	6	81.109	29.507	18.766	25.788	71.834	60.548	0.662	0.279	0.273	0.656	-0.725
Dew 98 PV before Life	1	81.033	30.3	18.833	20.086	78.205	65.624	0.317	0.347	0.03	-0.604	-0.905
	2	80.809	30.77	18.831	19.071	77.041	66.721	1.211	0.061	1.272	-0.685	-0.881
	6	80.696	30.57	19.271	19.112	78.866	65.7	0.924	0.299	0.625	0.62	0.357
	7	80.55	31.409	19.882	19.817	76.518	65.911	1.808	0.727	1.162	1.387	1.591
	9	80.187	31.163	19.755	18.729	77.542	68.918	2.026	0.408	1.818	0.474	1.123
	10	80.804	30.74	19.828	19.162	77.007	66.453	0.986	0.112	0.874	0.758	0.821
PV Life	1	81.851	29.132	18.525	19.009	77.198	66.281	1.789	0.383	1.376	0.555	0.856
	2	81.325	30.628	19.515	18.804	78.764	66.74	0.353	0.113	0.24	1.783	1.498

FUNCTIONALS PRODUCT TEST REPORT

		Dew 98 after 525K											
		SAMPLE #	PPB1 IDLE	PPB2 IDLE	PPB3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
Dew 98 PV after 1.040M Life		1	81.935	29.125	18.588	19.101	77.01	66.017	1.76	0.483	1.297	0.469	1.023
		2	81.62	30.54	18.348	19.044	76.826	66.558	-0.03	0.194	0.224	1.898	1.631
		3	81.205	30.175	18.803	19.173	76.897	65.514	0.02	0.272	0.252	0.563	0.465
		7	81.923	30.81	18.144	18.81	76.836	66.32	0.083	0.668	0.729	2.715	1.72
		9	81.413	30.958	19.55	17.891	77.405	66.615	0.595	0.408	0.187	2.344	0.982
		10	81.37	30.226	18.882	16.411	77.326	67.503	0.595	0.363	0.958	1.591	2.214
Dew 98 PV after 1.5M Life		1	81.962	29.105	18.549	18.295	76.986	65.887	1.807	0.444	1.383	0.511	1.042
		2	81.621	30.529	18.317	18.951	76.873	66.578	0.042	0.212	0.254	1.862	1.516
		6	81.139	30.283	18.988	19.81	76.6	65.333	0.184	0.284	0.1	0.653	0.517
		7	81.821	30.894	19.28	18.811	76.822	66.287	0.127	0.608	0.481	2.726	1.835
		9	81.371	30.974	19.822	17.88	77.403	66.571	0.683	0.352	0.301	2.357	0.848
		10	81.724	30.412	18.893	19.357	76.508	66.748	0.282	0.419	0.681	1.702	2.327
Dew 98 PV after 2 M Life		1	82.068	29.25	18.568	19.289	77.316	66.176	1.788	0.316	1.45	0.768	1.166
		2	81.668	30.702	18.505	19.185	76.853	66.737	0.174	0.287	0.113	1.891	1.478
		6	81.303	30.381	18.011	19.87	76.84	65.49	0.126	0.37	0.242	0.487	0.513
		7	82.109	30.918	18.165	18.956	77.031	66.457	0.141	0.753	0.684	2.516	1.843
		9	81.675	31.167	18.853	19.929	77.771	66.778	0.522	0.484	0.026	2.437	0.81
		10	81.497	30.732	18.167	19.917	76.486	66.829	0.285	0.565	0.28	-0.531	0.306
Dew 98 PV Offset Pre- Boss Height Change- Initial		76	81.126	29.84	18.82	24.916	72.122	61.305	0.138	0.12	0.258	-0.898	0.387
		77	80.657	30.074	18.038	24.526	72.425	61.388	0.487	0.036	0.431	-0.522	-0.324
		78	81.324	28.894	18.787	26.84	71.583	60.623	0.34	0.147	0.487	-0.837	0.322
		79	81.416	30.086	18.871	25.437	71.9	60.9	0.3	0.194	0.495	-1.175	0.452
		80	81.468	29.864	18.956	25.274	72.004	61.102	0.554	0.092	0.482	-0.826	-0.327
		81	81.237	30.194	19.039	24.987	72.405	61.788	0.007	0.156	0.148	-0.81	0.585
		82	81.269	30.145	18.827	25.58	71.8	60.931	0.084	0.318	0.412	-1.026	0.707
		83	81.171	30.239	19.281	24.816	72.305	61.328	0.118	0.042	0.16	-1.041	-0.301
		84	81.037	30.109	18.893	25.773	71.634	60.473	0.122	0.216	0.094	-0.857	0.322
		85	81.074	29.891	18.798	24.898	72.077	61.069	0.133	0.092	0.225	-0.793	-0.304
81852 149-008		SAMPLE #	PPB1 IDLE	PPB2 IDLE	PPB3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		76	82.117	29.708	18.586	24.883	72.048	61.051	1.359	0.122	1.481	-2.083	-1.313
		77	82.914	28.733	18.807	24.054	73.114	61.181	2.132	0.074	2.057	-2.339	-1.253
		78	81.768	30.093	18.731	25.844	72.187	60.608	0.826	0.361	0.987	-0.762	-0.438
		81	82.778	30.478	17.832	24.867	72.878	62.854	1.251	1.826	2.877	-2.868	3.072
		84	81.326	30.394	18.323	25.985	72.017	61.141	0.119	1.071	0.952	-0.684	1.338

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		PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
Dew 98 PV Offset Pre- Boose Height Change-After 10K R to L 15 DEG.	85	81.607	29.735	18.557	25.043	72.743	80.378	0.822	0.178	1	0.573	-1.628
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	76	82.848	29.768	17.91	23.278	73.442	83.178	2.032	0.857	2.888	-2.587	2.337
	77	82.953	28.586	18.106	22.661	74.419	82.454	3.217	1.42	1.797	-0.945	-2.835
	78	82.327	29.983	18.714	24.3	72.738	81.724	1.285	0.278	1.663	-1.849	0.387
	81	81.658	30.532	18.719	24.954	72.515	82.12	0.078	0.813	0.889	-1.777	1.58
Dew 98 PV Offset Pre- Boose Height Change-After 10K R to L 45 DEG.	84	81.053	30.324	18.584	24.832	72.898	82.438	0.32	0.74	0.419	-0.582	1.844
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	76	83.338	29.864	17.129	22.878	73.221	84.081	2.825	1.535	4.18	3.421	4.077
	77	84.07	27.777	18.859	22.93	74.515	82.523	3.249	1.881	2.363	-0.748	2.236
	78	82.452	30.023	18.538	24.387	72.534	81.755	1.379	0.485	1.884	-2.108	0.85
	81	85.398	30.325	16.214	21.918	73.116	85.829	3.963	3.144	7.964	7.708	7.686
Dew 98 PV Offset Pre- Boose Height Change-After 10K R to L Offset Load	84	81.256	29.816	17.766	24.852	72.961	83.131	0.589	0.86	1.449	0.857	2.318
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	76	83.618	29.877	16.107	23.06	73.801	86.244	2.889	2.77	5.389	4.375	3.86
	77	85.019	27.054	18.433	21.184	75.198	83.176	6.908	2.379	4.523	-0.739	2.813
	78	82.732	30.034	17.823	23.321	72.875	83.11	2.848	1.211	3.863	4.552	3.011
	81	85.494	30.427	16.39	21.408	73.39	88.94	4.056	3.597	7.593	8.383	9.077
Dew 98 PV Offset Pre- Boose Height Change-After Offset Load	84	81.053	29.384	17.832	24.775	73.259	82.623	0.62	0.551	1.171	1.858	2.198
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	76	81.607	27.451	16.738	23.881	74.186	84.264	3.456	0.287	3.189	4.344	1.348
	77	83.618	29.877	16.107	23.06	73.801	86.244	2.889	2.77	5.389	4.375	3.86
	78	85.019	27.054	18.433	21.184	75.198	83.176	6.908	2.379	4.523	-0.739	2.813
	81	82.732	30.034	17.823	23.321	72.875	83.11	2.848	1.211	3.863	4.552	3.011
Dew 98 PV Offset Before Load	84	81.053	29.384	17.832	24.775	73.259	82.623	0.62	0.551	1.171	1.858	2.198
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	1	81.381	29.884	18.816	27.117	78.401	87.542	0.447	0.088	0.515	0.546	0.418
	2	80.948	30.342	18.937	27.493	78.088	87.277	0.446	0.405	0.041	0.734	0.952
	3	81.094	30.168	18.917	27.874	78.108	87.033	0.122	0.248	0.127	0.282	0.44
	4	81.268	30.129	18.834	27.833	77.892	87.003	0.069	0.295	0.384	0.639	0.695
Dew 98 PV Offset Before Load	5	81.11	30.175	18.832	27.222	78.444	87.526	0.115	0.343	0.228	0.249	0.817
	6	80.982	30.295	19.309	28.493	79.037	88.045	0.363	0.014	0.377	0.47	0.815
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	1	81.232	30.048	18.751	26.678	79.391	88.90	0.134	0.297	0.431	0.895	1.227
	2	80.641	30.462	18.958	26.241	79.035	88.317	0.871	0.504	0.387	0.603	1.218
	3	80.965	29.985	18.114	26.398	79.477	88.834	0.05	0.149	0.199	0.834	0.706
Dew 98 PV Offset 10K R to L	4	80.64	30.395	19.208	26.51	78.981	87.98	0.505	0.187	0.318	0.826	0.481
	5	80.863	29.768	18.884	26.742	79.284	88.002	0.044	0.215	0.171	1.282	0.747
	6	80.998	30.045	18.449	26.162	80.201	88.358	0.099	0.404	0.503	0.522	1.06
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	1	81.454	30.108	18.589	26.28	79.503	88.329	0.296	0.539	0.835	1.22	1.841
	2	80.559	30.26	18.859	26.846	78.785	87.838	0.451	0.407	0.044	0.637	0.857
Dew 98 PV Offset 10K L to R	3	80.771	29.987	19.215	26.474	79.488	88.218	0.288	0.228	0.494	1.086	0.895
	4	81.075	30.271	19.064	26.822	79.943	87.82	0.246	0.207	0.039	0.609	0.511
	5	80.988	29.58	18.872	27.108	79.084	87.789	0.358	0.292	0.066	1.422	0.969
	6	81.258	29.812	19.152	26.164	80.26	89.411	0.398	0.34	0.056	0.557	0.776
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2

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Dew 98 PV Offset 45 DEG. L to R	1	81.856	29.942	16.301	15.798	79.112	69.64	0.863	0.641	1.504	1.451	2.068
	2	80.908	30.034	16.802	16.805	78.814	67.849	0.176	0.142	0.034	0.378	0.443
	3	80.885	29.882	19.217	16.071	79.732	68.402	0.067	0.335	0.402	1.089	1.02
	4	81.131	30.294	19.069	17.06	79.658	67.575	0.213	0.225	0.012	0.633	0.439
	5	81.023	29.804	18.827	16.868	79.25	68.078	0.369	0.223	0.146	1.381	0.718
	6	81.119	29.898	19.208	16.115	80.231	69.405	0.242	0.311	0.069	0.558	0.735
	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
Dew 98 PV Offset 45 DEG. R to L	1	81.61	30.307	18.878	14.972	79.574	69.622	0.253	0.629	0.882	1.969	2.482
	2	80.603	30.17	18.056	16.150	79.206	64.426	0.617	0.114	0.503	0.432	0.486
	3	81.055	29.529	19.213	16.126	79.908	68.463	0.476	0.684	0.208	1.521	1.699
	4	81.363	30.273	18.925	17.532	78.137	67.121	0.04	0.348	0.388	0.912	0.65
	5	81.082	29.569	18.612	16.790	79.207	68.182	0.463	0.253	0.23	1.46	0.788
	6	80.673	30.116	18.432	16.156	80.235	69.374	0.292	0.317	0.609	0.606	0.804
	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
P-221 before Life	5	80.974	29.108	18.632	20.676	74.878	64.757	1.816	1.524	0.298	1.463	-0.703
	6	80.623	29.918	18.866	20.877	75.475	64.454	0.143	0.05	0.093	0.297	0.298
	7	81.137	30.059	18.877	20.178	75.871	64.816	0.028	0.362	0.41	-0.848	0.857
	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	5	81.303	27.473	18.303	20.896	76.411	65.221					
	6	81.214	26.781	18.641	20.467	75.532	64.807	0.373	0.151	0.523		
	7	81.66	29.825	18.253	19.824	75.708	65.219	0.572	1.357			
P-221 @ 500K Life	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	5	80.991	27.392	18.615	21.37	75.068	64.778	2.549	2.123	0.426	3.341	-1.557
	6	81.121	29.821	18.631	21.337	75.07	63.974	0.26	0.008	0.241	-0.514	0.903
	7	81.724	28.812	18.194	20.811	75.298	64.554	0.862	0.817	1.48	-1.526	1.23
	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	5	80.86	22.726	22.74	20.892	70.918	70.422	7.104	41.014	9.000	2.826	-0.292
	6	81.033	22.898	24.015	21.541	69.268	69.336	5.985	41.017	5.020	0.707	-0.327
P-221 @ 1.5M Life	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	5	80.98	22.726	22.74	20.892	70.918	70.422	7.104	41.014	9.000	2.826	-0.292
	6	81.033	22.898	24.015	21.541	69.268	69.336	5.985	41.017	5.020	0.707	-0.327
	7	81.538	22.595	23.614	20.57	69.978	70.047	6.893	41.016	4.123	-0.303	0.134
	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	5	80.947	27.144	18.405	22.359	73.973	63.887	2.753	2.261	0.492	3.29	-1.677
	6	81.214	29.843	18.572	21.439	74.806	63.585	0.52	0.071	0.591	-0.772	0.408
P-221 @ 24M Life	7	81.417	29.786	18.382	21.244	74.614	63.731	0.581	0.404	0.985	-1.37	0.9

P-221 after 2.5M Life	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	5	80.635	27.259	18.261	21.688	74.814	64.151	2.526	2.262	0.265	3.286	-1.820
	6	81.242	29.502	18.479	21.157	74.799	63.823	0.69	0.023	0.712	-0.695	0.348
	7	81.234	29.926	18.51	21.016	74.88	63.943	0.258	0.416	0.674	-1.336	0.863
	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	5	74.577	22.174	41.153	40.213	84.030	78.584	0.652	31.978	31.926	4.781	5.443
	6	74.682	24.295	41.475	41.229	82.084	76.869	0.618	28.226	28.843	8.482	3.656
P-221 @ 3M Life	7	74.774	24.592	40.834	38.568	82.344	76.682	0.869	32.293	38.2	7.298	3.082
	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	5	80.991	27.369	18.374	20.488	75.579	65.049	2.872	2.305	0.567	3.479	-1.859
	6	81.214	29.843	18.572	21.439	74.806	63.585	0.52	0.071	0.591	-0.772	0.408
	7	81.417	29.786	18.382	21.244	74.614	63.731	0.581	0.404	0.985	-1.37	0.9

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P-221 ● 4K Lvs	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		8	81.018	29.768	16.803	20.972	74.948	83.962	0.198	0.035	0.163	-0.687
P-221 ● 4K Lvs	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		7	81.319	29.883	16.403	20.075	75.479	84.504	0.368	0.479	0.865	-1.445
U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		5	80.465	29.527	16.718	20.374	75.566	84.99	1.889	2.191	0.302	0.306
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		6	80.88	29.876	16.826	21.023	74.907	84.025	0.046	0.05	0.004	-0.744
U-152 LHD 20K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		7	81.018	30.144	16.621	19.976	75.563	84.549	0.176	0.523	0.347	-1.593
U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		1	81.018	30.054	16.826	20.549	75.591	84.818	0.087	0.229	0.142	-0.547
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		2	81.128	29.897	16.998	19.598	78.179	85.485	0.181	0.101	0.08	-0.711
U-152 LHD 20K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		3	80.935	29.949	16.958	21.054	74.884	84.261	0.064	0.01	0.074	-0.78
U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		4	80.931	30.005	16.948	20.299	75.538	84.8	0.125	0.059	0.085	-0.801
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		5	80.998	30.031	16.043	20.718	75.194	84.568	0.084	0.012	0.098	-0.874
U-152 LHD 20K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		6	80.84	30.009	16.115	20.261	75.442	84.879	0.219	0.106	0.325	-0.816
U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		1	81.168	30.158	16.225	20.004	75.902	86.164	0.04	0.933	0.893	-0.926
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		2	81.173	30.04	16.147	19.204	78.388	87.049	0.063	0.892	0.976	-1.002
U-152 LHD 20K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		3	80.827	30	16.946	20.876	76.082	84.714	0.222	0.064	0.168	-0.69
U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		4	81.139	30.112	16.784	20.04	76.608	86.108	0.029	0.328	0.289	-1.108
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		5	81.46	29.783	16.328	19.988	75.599	86.798	0.847	0.455	1.102	-1.263
U-152 LHD 20K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		6	81.648	29.123	16.757	19.883	76.089	85.095	1.475	0.634	0.841	-0.304
U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		1	81.236	30.15	16.091	19.815	75.863	86.213	0.036	1.058	1.065	-1.061
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		2	81.399	29.874	17.098	19.613	78.387	86.618	1.076	1.779	2.853	-2.15
U-152 LHD 20K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		3	80.908	29.82	16.877	20.631	75.155	84.83	0.062	0.043	0.018	-0.773
U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		4	81.503	30.001	16.707	19.679	76.633	85.107	0.453	0.284	0.747	-1.71
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		5	81.701	29.523	17.572	19.088	76.827	86.805	1.127	0.951	2.079	-0.973
U-152 LHD 20K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		6	81.658	29.082	16.795	19.863	76.203	85.111	1.526	0.713	0.813	-0.292

U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		1	81.198	30.159	16.169	19.669	78.102	86.8	0.013	0.99	0.977	-1.049
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		2	82.061	29.988	16.516	19.174	78.265	89.446	1.823	2.473	4.096	2.593
U-152 LHD 20K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		3	80.937	29.88	16.788	20.487	75.302	84.864	0.007	0.084	0.101	-0.714
U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		4	81.71	29.988	16.745	19.384	75.778	85.271	0.874	0.242	0.918	-2.026
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		5	81.995	29.423	17.022	19.446	75.983	86.984	1.522	1.401	2.823	-1.272
U-152 LHD 20K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		6	81.8	29.084	16.804	19.844	78.377	85.389	1.457	0.71	0.747	-0.232
U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		1	81.173	30.234	16.101	19.886	78.181	86.721	0.111	1.133	1.022	-1.135
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		2	83.007	30.059	16.41	17.694	78.377	86.946	1.898	2.045	4.547	4.36
U-152 LHD 20K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		3	80.985	29.986	16.891	20.368	75.418	86.172	0.171	0.095	0.076	-0.755
U-152 LHD InBall DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		4	81.706	30.097	16.847	19.843	75.941	86.487	0.559	0.251	0.81	-2.423
U-152 LHD 10K DV Offset	SAMPLE #	PP81 IDLE	PP82 IDLE	PP83 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
		5	81.52	29.368	16.654	19.805	76.618	86.809	1.401	1.714	3.116	-1.023

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	6	81.635	29.056	18.789	-10.060	78.543	85.668	1.528	0.731	0.796	-0.233	-0.768
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
P-221 Initial DV Offset	1	81.152	29.771	18.673	22.4	74.121	83.183	0.332	0.098	0.429	-0.652	0.265
	2	81.518	29.888	18.588	22.152	74.634	83.608	0.78	0.1	0.68	-0.391	0.214
	3	81.324	29.982	18.588	23.541	74.628	83.699	0.292	0.394	0.686	1.144	0.585
	4	81.005	30.063	18.785	24.539	73.838	82.774	0.108	0.288	0.19	1.336	0.399
	5	81.998	29.932	18.03	23.036	73.671	82.605	2.014	0.097	1.916	-0.981	-0.412
	6	80.924	29.681	18.768	22.622	74.189	83.417	0.193	0.086	0.108	0.343	0.209
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
P-221 10K L R / DV Offset	1	81.839	29.05	18.883	24.698	74.891	83.122	1.759	0.643	1.116	-0.416	-1.262
	2	82.829	25.705	14.488	20.073	75.941	84	3.074	0.78	2.291	-0.751	-1.914
	3	81.368	29.932	18.589	23.445	74.789	83.88	0.387	0.333	0.719	1.206	0.56
	4	82.289	29.956	16.2	22.851	74.628	84.332	1.283	0.786	2.039	-0.892	1.405
	5	82.178	25.799	16.709	22.463	74.386	85.444	2.328	1.09	3.446	-0.818	3.209
	6	80.984	29.703	18.838	21.985	74.748	83.913	0.241	0.135	0.106	0.519	-0.253
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
P-221 20K R L / DV Offset	1	82.086	28.948	18.789	21.428	74.728	83.095	2.088	0.821	1.267	-0.482	-1.515
	2	83.282	28.095	18.528	19.53	76.674	84.112	4.137	1.433	2.704	-0.381	-2.986
	3	81.34	29.935	18.598	23.227	74.948	83.894	0.358	0.336	0.692	1.264	0.526
	4	82.834	29.943	18.118	21.684	74.716	84.598	1.841	0.825	2.666	-2.262	1.729
	5	82.077	28.587	18.429	22.333	74.386	82.508	2.34	1.258	3.559	-0.84	4.081
	6	81.025	29.274	18.809	21.958	74.803	83.764	0.7	0.535	0.186	1.093	-0.834
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
P-221 30K R L / DV Offset	1	82.437	28.839	18.761	21.12	74.742	82.892	2.548	0.822	1.625	-0.831	-1.708
	2	83.382	28.151	18.584	19.343	76.52	83.955	4.131	1.413	2.718	-0.595	3.042
	3	81.458	29.803	18.039	23.457	74.567	84.488	0.505	0.864	1.389	0.972	1.612
	4	83.016	28.987	18.012	21.328	74.812	84.829	1.988	0.985	2.853	-2.915	2.31
	5	82.445	28.181	15.706	21.863	74.897	87.207	2.204	1.485	4.869	0.988	4.785
	6	80.948	28.407	18.837	21.916	75.424	83.774	1.489	1.43	0.059	2.97	-2.094
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
P-221 40K R L / DV Offset	1	82.722	28.904	18.836	20.706	74.873	88.158	2.768	0.932	1.838	-1.484	-1.681
	2	83.067	27.941	18.606	18.085	76.265	83.05	4.067	1.887	3.229	-1.382	3.163
	3	81.448	29.832	18.132	23.214	74.856	84.433	0.488	0.8	1.285	0.981	1.482
	4	83.363	29.963	17.256	21.831	74.345	85.296	2.35	1.707	4.067	3.099	3.679
	5	80.949	27.879	18.81	21.916	76.86	83.779	2.02	1.931	0.089	4.295	3.009
	6	83.383	28.843	14.773	21.578	75.219	88.541	8.441	1.07	8.54	2.081	8.444
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
DEW 95 GM After Life Cycles	1	82.025	28.324	18.571	18.642	77.794	86.753	1.661	0.247	1.404	0.722	0.594
	2	81.688	30.867	19.517	17.888	77.051	87.557	0.229	0.35	0.121	1.879	1.808
	6	81.162	30.544	19.026	19.332	77.11	85.835	0.402	0.518	0.116	0.512	0.364
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
U-152 RH Offset Initial 16 degC	2	80.177	29.732	18.887	20.715	74.347	83.449	0.805	0.045	0.58	-1.007	0.265
	4	80.134	29.7	18.552	20.78	74.2	83.446	0.616	0.148	0.468	-0.911	0.455
	12	80.182	29.953	18.772	21.183	74.384	83.395	0.821	0.181	0.84	-1.153	0.449

SAMPLE # PPS1 IDLE PPS2 IDLE PPS3 IDLE WOT 1 WOT 2 WOT 3 INDEX 1 INDEX 2 INDEX 3 SLOPE 1 SLOPE 2

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U-152 RHD Offset After 10K L to R	2	80.573	29.936	16.842	20.792	75.082	64.126	0.413	0.084	0.32	-0.415	0.267
	4	80.55	29.868	16.864	20.823	75.092	64.169	0.438	0.304	0.184	-0.453	0.407
	12	80.71	30.003	16.857	21.333	74.717	63.737	0.349	0.146	0.198	-0.465	0.19
U-152 RHD Offset After 10K 15 deg R to L	2	80.585	29.879	16.832	21.013	75.027	63.992	0.334	0.048	0.285	-0.299	0.182
	4	80.644	29.987	16.633	20.576	75.204	64.358	0.373	0.334	0.038	-0.643	0.58
	12	80.772	29.957	16.77	21.208	74.846	63.986	0.235	0.106	0.048	-0.517	0.341
U-152 RHD Offset After 10K 45 deg R to L	2	80.527	29.875	16.903	20.891	76.071	63.989	0.398	0.026	0.425	-0.182	0.157
	4	80.682	29.915	16.594	20.316	75.33	64.513	0.303	0.32	0.017	-0.582	0.703
	12	80.682	29.981	16.888	21.282	74.744	63.952	0.358	0.103	0.268	-0.458	0.325
U-152 RHD Offset After 40K	2	80.616	29.738	16.737	20.675	76.196	64.254	0.172	0.001	0.171	-0.197	0.221
	4	80.733	29.864	16.535	20.568	75.141	64.368	0.181	0.329	0.148	-0.581	0.683
	12	80.691	29.981	16.813	21.487	74.642	63.752	0.34	0.168	0.172	-0.452	0.325
U-152 LHD DV Life Milli	2	81.641	29.731	16.665	24.389	72.504	62.201	0.86	0.065	0.925	-1.156	0.874
	4	81.794	29.887	16.557	23.938	73.129	61.592	0.858	0.331	1.187	-0.972	-0.609
	5	81.184	30.181	19.096	23.814	73.023	62.142	0.047	0.085	0.038	-1.322	-0.34
U-152 LHD 500K Life Cycles	2	81.517	29.848	16.71	24.711	72.315	61.914	0.818	0.083	0.757	-0.998	0.722
	4	81.581	29.886	16.502	24.292	72.807	61.248	0.958	0.384	1.339	-1.211	-0.316
	5	81.118	30.204	16.142	23.758	72.844	62.15	0.136	0.061	0.075	-1.25	0.384
U-152 LHD 1 Million Life Cycles	2	80.553	29.529	16.834	21.362	74.488	63.39	0.374	0.105	0.269	-1.256	0.62
	4	81.302	29.762	16.431	21.127	74.457	62.938	0.5	0.321	0.821	-1.595	-0.445
	5	80.806	29.936	16.931	19.389	75.503	64.887	0.08	0.005	0.075	-1.689	0.394
U-152 LHD 1.5 Million Life Cycles	2	80.787	29.784	16.763	20.41	74.827	64.534	0.047	0.011	0.088	-1.341	0.62
	4	81.148	29.87	16.524	20.623	74.866	63.307	0.229	0.348	0.575	-1.487	-0.389
	5	80.886	30.035	19.181	19.374	75.369	64.822	0.419	0.385	-1.793	-0.418	
U-152 LHD 2 Million Life Cycles	2	81.026	29.885	16.774	21.095	74.713	64.353	0.091	0.111	0.202	-0.983	0.788
	4	81.885	29.852	16.463	21.426	74.862	63.02	0.784	0.368	1.152	-1.226	-0.332
	5	81.227	29.98	16.919	19.851	75.424	64.772	0.197	0.081	0.269	-1.508	0.454
U-152 LHD 2.5 Million Life Cycles	2	80.654	29.841	16.841	21.32	74.491	64.189	0.037	0.101	0.138	-0.887	0.584
	4	81.826	29.914	16.554	21.452	74.573	62.882	0.863	0.369	1.022	-1.356	-0.359
	5	80.909	30.12	19.225	19.779	75.538	64.64	0.281	0.103	0.358	-1.375	0.291
SAMPLE #	PPB1 IDLE	PPB2 IDLE	PPB3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
	3	81.106	29.734	16.82	21.635	74.326	63.888	0.325	0.088	0.239	-0.978	0.403

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U-15 LHD MHz Life Cycles	4	81.709	29.804	16.458	20.632	75.039	63.38	0.855	0.346	1.201	-1.283	-0.306
	5	81.32	29.889	16.847	19.871	75.583	64.777	0.401	0.322	0.423	-1.424	0.28
U-152 LHD 3.5 Million Life Cycles	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	3	81.058	29.775	16.882	21.335	74.481	64.104	0.293	0.117	0.116	-1.078	0.847
	4	81.59	29.871	16.633	21.442	74.573	62.843	0.886	0.238	0.907	-1.256	-0.455
U-152 LHD 4 Million Life Cycles	5	81.016	30.082	16.022	19.636	75.509	64.782	0.116	0.05	0.056	-1.542	0.403
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	3	81.121	29.728	16.9	21.2	74.862	64.218	0.343	0.172	0.171	-1.035	-0.551
U-152 LHD 4 Million Life Cycles	4	81.584	29.981	16.872	21.359	74.589	62.978	0.553	0.409	0.961	-1.458	0.393
	5	81.089	30.131	16.1	19.409	75.764	66.058	0.112	0.03	0.082	-1.873	-0.57
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
DEW 98 KLT INITIAL FUNCTIONAL TEST POST PPAP	1	80.637	30.075	16.681	16.407	76.07	67.253	0.488	0.394	0.094	-1.105	0.654
	2	80.08	30.451	16.998	16.803	78.229	67.203	1.411	0.453	0.858	-0.725	0.491
	4	80.432	30.089	16.817	16.876	78.212	67.308	0.707	0.272	0.436	-0.817	0.493
	6	80.352	30.004	16.956	16.859	78.06	67.111	0.702	0.048	0.654	-0.285	-0.168
	7	80.648	29.918	16.653	16.501	78.255	67.44	0.318	0.263	0.056	-0.654	0.641
	8	80.492	30.078	16.709	16.881	77.948	67.021	0.837	0.37	0.267	-0.644	0.478
	9	80.158	30.453	19.131	17.548	77.469	66.881	1.346	0.322	1.023	-0.81	0.618
	10	80.239	30.463	19.105	17.426	77.571	66.745	1.274	0.358	0.916	-0.771	0.648
	11	80.308	30.349	19.259	16.81	78.129	67.001	1.089	0.08	1.003	-0.065	0.161
	12	80.191	30.324	19.197	16.637	78.316	67.163	1.183	0.127	1.058	-0.562	0.189
DEW 98 KLT After Shock POST PPAP	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	1	80.709	30.095	18.81	46.918	78.024	67.368	0.437	0.285	0.151	-1.354	0.693
	2	80.255	30.213	18.856	17.04	77.985	68.77	1.009	0.358	0.851	-0.38	0.282
	4	79.903	30.705	19.143	16.963	77.894	66.854	1.852	0.582	1.29	-0.889	0.637
	6	80.497	30.011	18.857	17.186	77.878	66.903	0.565	0.054	0.51	-0.452	0.186
	7	80.202	30.14	18.013	17.058	77.928	66.839	0.889	0.127	0.662	-0.679	0.219
	8	79.955	30.308	19.129	17.424	77.739	66.423	1.401	0.178	1.223	0.182	-0.298
	9	80.268	30.783	19.356	17.398	77.382	66.378	1.577	0.437	1.14	-1.535	0.502
	10	80.225	30.384	19.189	17.888	77.558	66.378	1.218	0.225	0.963	-0.517	-0.163
	11	80.131	30.539	19.289	16.562	78.209	66.974	1.458	0.25	1.208	-0.896	0.158
	12	80.325	30.148	19.092	16.782	78.299	66.921	0.874	0.057	0.817	-0.488	-0.353
DEW 98 KLT After 985K POST PPAP	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	1	80.379	30.352	19.047	16.568	77.729	67.061	1.023	0.305	0.719	-1.444	-0.915
	2	80.086	30.371	19.04	17.359	77.788	66.559	1.355	0.331	1.024	-0.307	-0.218
	4	79.605	30.901	19.264	17.888	77.466	66.385	2.346	0.637	1.71	-0.811	-0.912
	6	80.276	30.343	19.25	17.532	77.526	66.345	1.117	0.093	1.024	-0.877	0.466
	7	80.227	30.357	19.348	18.989	77.883	66.553	1.179	0.009	1.171	-1.021	0.486
	8	79.778	30.495	19.087	17.732	77.884	66.199	1.767	0.408	1.359	0.211	0.377
	9	80.141	31.143	19.468	17.719	77.039	65.89	2.052	0.655	1.397	-1.934	-0.832
	10	79.937	30.714	19.486	18.346	78.941	65.88	1.827	0.248	1.579	-0.759	-0.332
	11	79.803	30.853	19.559	18.918	77.849	66.585	2.1	0.265	1.805	-1.029	0.265

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	12	80.031	30.361	19.307	17.15	77.997	86.589	1.38	0.054	1.326	-0.506	0.48
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
P-221 PV Offset Initial Testing	48	81.506	30.076	18.976	21.727	74.376	86.822	0.383	0.101	0.484	-1.415	0.371
	51	81.883	29.894	18.69	22.842	73.82	83.37	1.138	0.004	1.143	-1.14	0.801
	57	81.671	30.042	19.096	22.382	74.284	83.561	0.579	0.056	0.523	-0.896	0.27
	65	81.389	30.136	19.163	21.267	74.783	84.476	0.203	0.027	0.176	-1.528	0.725
	67	81.859	29.894	18.079	21.79	74.384	83.841	0.714	0.185	0.529	-1.282	0.406
	71	81.089	30.383	19.286	22.225	74.341	83.769	0.324	0.088	0.255	-1.008	0.62
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2

	48	81.784	29.532	18.84	22.136	74.832	83.758	1.202	0.109	1.093	-0.389	-0.32
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
P-221 PV Offset After 10K to R	51	82.45	29.587	18.747	22.28	74.005	83.179	1.813	0.16	1.853	-1.738	0.198
	57	82.082	28.484	18.819	22.477	75.268	83.895	2.548	1.155	1.393	2.14	-1.471
	65	81.576	29.489	19.013	21.64	74.818	84.027	1.058	0.543	0.513	0.296	-0.508
	67	81.851	29.629	18.847	22.02	74.29	83.813	1.272	0.218	1.054	-1.168	0.452
	71	81.301	29.534	17.853	22.559	74.881	85.96	0.717	0.882	1.598	0.837	3.474
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2

	48	82.103	28.24	17.868	21.261	75.158	85.36	1.812	0.372	2.184	-0.482	1.561
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
P-221 PV Offset After 20K to L	51	83.054	29.286	18.794	20.866	74.857	83.802	2.719	0.448	2.27	-2.421	-0.648
	57	82.884	29.003	18.474	21.283	76.006	84.682	3.631	1.471	2.16	1.761	-1.849
	65	81.847	29.414	19.136	20.759	75.438	84.606	1.383	0.726	0.657	-0.573	-0.809
	67	83.061	29.804	18.7	20.286	74.773	84.746	2.407	0.098	2.311	3.296	0.9
	71	81.283	29.306	17.431	22.178	75.16	86.684	0.938	0.875	1.812	1.401	3.922
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2

	48	82.474	28.325	17.108	21.131	75.844	88.314	3.009	0.217	3.818	1.081	1.803
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
P-221 PV Offset After 30K to R	51	84.574	28.585	18.348	20.668	74.669	83.958	4.060	0.784	4.178	3.844	-1.181
	57	84.899	27.488	17.886	20.104	76.268	85.205	5.151	1.388	3.768	0.752	-1.487
	65	83.23	28.825	18.954	19.689	75.591	84.354	3.368	1.128	2.226	-2	-1.53
	67	84.343	29.588	17.848	19.089	74.622	86.048	3.727	0.917	4.644	5.906	3.353
	71	81.734	28.434	18.895	22.174	75.53	87.898	2.251	0.799	3.949	2.552	3.864
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2

	48	82.618	27.977	17.133	20.614	78.026	86.404	2.703	0.158	2.625	1.206	-1.732
SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2	
P-221 PV Offset After 40K to L	51	85.096	28.538	18.627	19.286	75.013	83.565	5.410	1.089	4.23	4.624	2.082
	57	84.963	27.399	18.074	19.87	78.048	85.301	5.554	1.875	3.879	0.555	2.284
	65	83.618	28.404	18.057	19.236	78.954	84.46	4.064	1.853	2.411	-1.835	2.989
	67	85.181	29.596	17.094	18.243	74.712	86.849	4.535	1.501	6.027	3.402	8.137
	71	81.734	27.704	18.403	21.556	78.418	88.337	2.961	0.301	3.392	4.036	4.313
	SAMPLE #	PPS1 IDLE	PPS2 IDLE	PPS3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2

	1	80.691	30.26	19.124	23.105	73.371	82.614	0.619	0.136	0.463	-1.065	0.49	
N	R	2	80.55	30.444	18.281	24.58	72.549	81.808	0.944	0.163	0.781	-0.766	0.49

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P-221 D Offset 1m Testing	3	81.914	26.735	17.367	23.786	72.616	61.814	2.129	0.348	2.477	-0.664	0.543
	4	82.259	26.892	17.508	23.864	72.679	61.805	2.318	0.384	2.701	-0.928	0.805
	5	82.131	26.882	17.561	24.159	72.358	61.874	2.189	0.291	2.49	-1.014	0.738
	6	80.381	30.742	19.443	24.172	73.161	62.085	1.211	0.298	0.912	-0.88	0.342
	SAMPLE #	PPB1 IDLE	PPB2 IDLE	PPB3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	1	80.63	30.331	19.175	21.447	74.88	62.862	0.752	0.155	0.597	-1.05	0.514
	2	80.43	30.447	19.262	22.607	74.128	63.28	1.068	0.195	0.871	-0.776	0.502
P-221 DVI Offset 10K 15 Deg	3	81.992	26.747	17.313	21.821	74.213	63.288	2.185	0.434	2.829	-0.741	0.837
	4	82.268	26.916	17.469	21.921	74.107	63.092	2.302	0.447	2.748	-1.021	0.604
	5	82.089	26.91	17.51	21.954	73.937	63.206	2.138	0.4	2.539	-1.078	0.789
	6	82.155	26.499	17.369	22.989	73.892	63.153	2.805	0.101	2.706	-0.39	0.507
	SAMPLE 4	PPB1 IDLE	PPB2 IDLE	PPB3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	1	80.45	30.444	19.35	21.805	74.329	62.495	1.044	0.094	0.95	-1.005	3.189
	2	80.307	30.591	19.359	22.875	73.794	62.931	1.333	0.232	1.102	-0.791	2.971
P-221 DVI Offset 15 Deg R to L	3	81.783	28.845	17.44	22.182	73.733	62.848	1.887	0.405	2.293	-0.87	3.084
	4	82.089	29.038	17.628	22.484	73.709	62.689	2.002	0.41	2.412	-1.048	3.189
	5	81.983	29.003	17.87	22.355	73.755	62.986	1.93	0.334	2.254	-1.062	2.996
	6	81.988	28.574	17.491	22.532	73.886	62.899	2.374	0.083	2.457	-0.396	2.082
	SAMPLE 5	PPB1 IDLE	PPB2 IDLE	PPB3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	1	80.493	30.421	19.308	19.428	76.889	65.042	0.978	0.113	0.865	-1.015	3.189
	2	80.301	30.825	19.349	20.084	75.983	65.042	1.374	0.276	1.098	-0.74	2.852
P-221 DVI Offset 30K 45 Deg	3	81.751	28.821	17.485	19.12	76.117	65.121	1.78	0.435	2.218	-0.721	3.006
	4	82.044	29.101	17.663	19.327	76.25	65.188	1.894	0.438	2.331	-1.012	3.186
	5	81.889	29.056	17.782	19.396	75.875	65.077	1.782	0.284	2.077	-1.033	3.035
	6	82.022	28.591	17.482	19.8	75.918	65.217	2.381	0.108	2.49	-0.382	3.048
	SAMPLE 6	PPB1 IDLE	PPB2 IDLE	PPB3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	1	80.531	30.442	19.276	19.766	78.83	65.748	0.961	0.167	0.795	-1.089	3.207
	2	80.246	30.841	19.44	20.328	76.829	64.788	1.445	0.201	1.244	-0.816	3.087
P-221 DVI Offset 40K 45 Deg	3	81.819	28.888	17.438	19.818	75.694	64.853	1.883	0.448	2.331	-0.898	3.052
	4	82.136	29.042	17.554	19.5	76.018	64.9	2.045	0.488	2.633	-1.074	3.11
	5	82.007	29.003	17.605	19.842	75.534	64.678	1.954	0.388	2.352	-1.061	2.955
	6	81.898	28.689	17.605	19.85	75.682	64.938	2.157	0.084	2.241	-0.383	3.080
	SAMPLE 7	PPB1 IDLE	PPB2 IDLE	PPB3 IDLE	WOT 1	WOT 2	WOT 3	INDEX 1	INDEX 2	INDEX 3	SLOPE 1	SLOPE 2
	1	80.469	30.254	19.164	19.398	75.871	64.987	0.835	0.08	0.745	-1.088	0.375
	2	80.189	30.479	19.339	20.178	75.525	64.511	1.34	0.139	1.2	-0.778	2.286
P-221 DVI Offset 1m Functional Testing	3	81.862	28.724	17.275	19.801	75.245	64.261	2.108	0.449	2.557	-0.789	0.549
	4	82.024	28.839	17.497	19.807	75.503	64.368	2.035	0.441	2.476	-1.034	0.495
	5	81.833	28.863	17.532	19.828	75.279	64.448	2.02	0.331	2.351	-1.033	0.822
	6	81.82	28.555	17.508	20.041	75.208	64.507	2.215	0.048	2.281	-0.418	0.4

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SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.107	0.427	-0.355	-0.349
0.016	0.425	-0.526	-0.376
0.142	0.499	-0.43	-0.387
0.12	0.543	-0.32	-0.428
0.136	0.487	-0.368	-0.351
0.309	0.427	-0.39	-0.335

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.239	0.699	-0.498	-0.584
0.195	0.612	-0.595	-0.279
0.324	0.52	-0.475	-0.413
1.845	0.785	-0.351	-0.637
0.057	0.484	-0.283	-0.285
0.309	0.509	-0.501	-0.471

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.122	0.608	-0.371	-0.51
0.253	0.762	-0.605	-0.387
0.311	0.48	-0.429	-0.669
1.485	0.578	-0.371	-0.589
0.117	0.444	-0.363	-0.298
0.2	0.482	-0.416	-0.332

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.188	0.49	-0.436	-0.541
0.157	0.747	-0.605	-0.334
0.299	0.538	-0.368	-0.49
1.36	0.77	-0.38	-0.665
0.179	0.449	-0.27	-0.266
0.114	0.388	-0.473	-0.473

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.078	0.578	-0.43	-0.488
0.305	0.676	-0.604	-0.484
0.183	0.526	-0.388	-0.475
1.095	0.852	-0.378	-0.642
0.188	0.525	-0.457	-0.33
0.202	0.446	-0.435	-0.397

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.484	?	?	?
0.408	?	?	?
0.763	0.562	0.306	0.276
0.444	-0.569	0.357	0.501
0.836	-0.298	-0.176	0.326
0.612	-0.557	0.291	0.544

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.68	0.516	-0.517	-0.285
0.477	-0.346	0.352	0.458

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0.915	0.480	0.349	-0.298
1.37	-0.633	0.383	0.603
1.583	-0.842	0.258	0.386
0.73			

SLOPE 3	LINEARITY 1	LINEARITY 2	LINEARITY 3
0.721	0.421	-0.373	0.263
0.57	-0.314	0.381	0.372
0.886	0.591	0.349	-0.359
1.144	-0.812	0.368	0.524
1.526	-0.368	-0.321	-0.317
0.843	0.284	0.257	-0.354

SLOPE 3	LINEARITY 1	LINEARITY 2	LINEARITY 3
0.806	0.26	-0.317	0.376
0.53	0.408	0.246	0.294
0.858	0.478	0.389	0.305
1.225	-0.844	0.27	0.485
1.671	-0.585	0.215	-0.238
0.781	-0.49	0.357	0.496

SLOPE 3	LINEARITY 1	LINEARITY 2	LINEARITY 3
0.653	0.44	-0.584	0.286
0.557	0.387	0.386	0.376
0.93	-0.608	0.525	0.424
0.999	-0.541	-0.294	0.404
1.713	0.378	-0.214	-0.282
0.53			

SLOPE 3	LINEARITY 1	LINEARITY 2	LINEARITY 5
0.173	-0.354	0.255	0.305
0.082	-0.247	0.185	0.229
0.193	-0.304	-0.183	0.269
0.194	-0.289	-0.255	0.276
0	-0.359	-0.248	0.345
0.198	-0.263	0.262	0.308
0.308	0.369	0.274	-0.241
0	-0.319	-0.225	0.333
0.131	-0.405	-0.444	0.286
0.029	-0.336	0.22	0.302

SLOPE 3	LINEARITY 1	LINEARITY 2	LINEARITY 3
0.138	-0.902	-0.358	1.136
0	-0.777	0.249	-0.252
0.202	-0.271	0.173	0.306
1.349	0.487	-0.249	0.347
1.259	-0.375	-0.452	-0.319

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SLOPE 3	LINEARITY 1	LINEARITY 2	LINEARITY 3
0.162	0.33	0.261	1.02
0.483	-0.897	-0.346	0.897
0.379	-0.767	-0.483	0.272
0.16	0.472	0.238	0.408
0.691	1.48	-0.244	-1.088
1.727	-0.382	-0.471	0.363
2.986	-0.327	-0.364	-0.783
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
2.078	0.329	-0.419	-0.63
0	0.691	-0.436	0.329
0.15	0.484	0.213	0.338
2.419	0.778	0.229	-0.407
3.748	-0.344	-0.542	0.308
5.98	0.388	-0.583	-0.586
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
5.665	0.678	-0.378	0.544
0	0.636	-0.483	0.348
0.096	-0.389	0.185	0.468
3.484	0.934	0.337	0.42
4.647	-0.371	-0.578	0.416
4.028	-0.313	-0.272	0.719
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.408	-1.328	0.522	0.715
0.381	-1.214	0.588	0.87
0.488	-1.05	0.47	0.654
0.27	-0.841	0.454	0.512
0.517	-1.184	0.44	0.498
0.568	-0.984	0.306	0.625
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.711	-0.703	0.321	0.484
0.864	-0.834	0.485	0.361
0.438	-0.834	0.351	0.507
0.422	-0.469	0.335	0.381
0.736	-0.316	0.432	-0.256
1.085	-0.71	0.406	0.588
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.963	-0.716	0.336	0.474
0.542	-0.55	0.424	0.547
0.419	-0.791	0.305	0.475
0.403	-0.527	0.285	0.349
0.609	-0.293	0.42	0.222
0.562	-0.706	0.299	0.594
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			

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0.782	-0.522	0.269	0.439
0.561	-0.644	0.367	0.57
0.325	-0.768	0.328	0.457
0.426	-0.684	0.311	0.33
0.911	-0.421	0.449	0.29
0.538	-0.793	0.336	0.6

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.62	-0.749	0.475	0.559
0.779	-0.691	0.406	0.478
0.488	-0.669	0.229	0.485
0.508	0.27	0.315	0.265
0.875	-0.692	0.504	0.31
0.588	-0.952	0.523	0.751

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.934	-0.342	-0.268	-0.296
0.167	-0.374	-0.231	0.36
0.072	-0.33	-0.272	0.939

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

		0.344	
	0.483	0.217	0.456

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

2.052	0.251	0.254	0.214
0.282	-0.343	0.234	0.361
0.092	0.462	-0.203	0.453

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.385	-0.3	0.318	0.339
0.431	-0.332	-0.269	0.319
0.068	0.384	0.278	0.299

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

2.21	0.385	0.391	-0.278
0.16	-0.754	0.486	0.624
0.084	-0.554	0.384	0.491

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SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

2.408	-0.408	0.457	0.328
0.16	-0.964	0.443	0.618
0.173	-0.78	0.447	0.708

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

2.173	1.797	0.9	-1.387
4.818	1.734	0.803	-1.695
4.043	2.43	1.127	-1.764

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

2.448	-0.649	0.593	0.429
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0.244	-0.889	0.453	0.58
0.089	-0.579	0.34	0.69
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
2.388	-0.359	0.415	0.258
0.14	-0.671	0.399	0.494
0.04	-0.57	0.344	0.623
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
-0.238	0.639	-0.41	-0.301
0.15	0.655	-0.236	-0.224
0.088	-0.451	0.349	0.327
0.073	-0.405	0.397	0.378
0.049	-0.484	0.339	0.321
0.171	-0.473	0.262	0.423
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.081	0.317	-0.362	0.388
0.053	0.684	-0.279	-0.309
0.137	-0.38	0.277	0.312
0.049	0.789	0.304	-0.422
0.14	0.388	0.227	-0.481
0.949	-0.785	0.412	0.413
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.1	0.433	-0.42	0.34
0.115	0.549	-0.304	0.338
0.2	-0.312	0.245	0.286
0.126	-0.544	0.291	-0.394
0.128	-0.429	-0.221	0.788
1.117	-0.545	0.439	0.398

0.102	0.498	-0.509	-0.405
0.012	-0.447	0.269	0.482
0.181	0.458	-0.332	0.335
0.211	-0.59	0.346	-0.316
0.057	-0.385	0.254	0.651
1.04	-0.811	0.451	0.375
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.066	0.394	-0.358	-0.286
0.022	0.815	0.273	0.357
0.117	-0.514	0.325	0.378
0.039	-0.845	0.341	-0.258
0.078	-0.455	0.314	-0.625

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1.013	-0.896	0.37	-0.324
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.098	0.427	-0.259	-0.254
0.114	-0.397	0.261	0.247
0.088	-0.486	0.302	0.276
0.078	-0.4	0.344	0.341
0.543	0.623	0.399	0.354
0.244	-0.446	0.253	0.974
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
1.663	-0.62	0.481	0.211
2.522	-1.037	0.434	-0.294
0.123	0.42	0.213	0.32
0.079	-0.858	-0.163	-0.283
0.239	0.7	0.351	0.422
0.333	0.437	-0.309	0.227
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
1.986	-0.851	0.419	0.288
3.938	0.384	0.382	-0.362
0.06	0.476	0.211	0.291
0.06	-0.538	0.22	-0.3
0.202	0.983	-0.325	0.368
0.838	0.804	-0.421	-0.191
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
2.251	-0.762	0.479	0.238
4.046	-0.474	-0.384	-0.276
0.034	0.451	0.242	-0.248
0.025	-0.947	0.264	0.367
0.074	1.285	-0.388	-0.453
2.78	0.378	-0.453	0.286
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
2.215	-0.837	0.521	-0.231
4.174	-1.278	0.457	-0.299
0.085	-0.484	0.269	-0.558
0.015	-1.013	0.194	0.465
3.988	0.48	-0.551	0.284
0.094	1.01	0.491	0.698
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.482	0.866	-0.487	-0.448
0.563	-0.358	0.412	0.373
0.608	0.891	-0.277	-0.41
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.282	-0.418	-0.338	-0.284
0.436	-0.398	-0.31	-0.253
0.229	0.435	-0.463	-0.314
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			

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0.153	0.322	-0.308	-0.22
0.267	0.465	-0.324	-0.327
0.242	0.329	-0.334	-0.313
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.169	-0.323	-0.322	-0.35
0.155	0.541	-0.303	-0.331
0.22	-0.289	-0.331	0.318
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.18	0.402	-0.32	-0.27
0.216	0.474	-0.335	-0.428
0.231	0.365	-0.377	-0.302
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.174	-0.624	0.304	0.294
0.237	-1.156	0.247	0.41
0.2	-0.49	0.305	0.424
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.182	0.588	0.184	0.283
0.091	0.557	0.202	-0.254
0.073	-0.248	0.269	0.373
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.159	0.639	0.226	0.299
0.417	0.438	-0.198	0.252
0.246	-0.367	0.199	0.364
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.271	0.695	0.333	-0.28
0.687	0.701	-0.378	-0.273
0.34	0.485	-0.423	-0.296
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.212	0.815	-0.301	-0.205
0.526	0.658	-0.297	-0.218
0.551	0.381	-0.956	0.221
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.041	0.664	-0.263	-0.247
0.437	0.513	-0.268	-0.256
0.05	0.342	-0.297	-0.359
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.019	0.44	0.338	0.339
0.473	-0.439	0.304	0.279
0.297	-0.594	0.221	0.368
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.057	0.647	0.288	0.325

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0.482	0.508	0.272	0.287
0.277	-0.427	-0.238	0.27
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.032	0.855	0.26	-0.308
0.6	0.498	0.254	0.261
0.167	-0.516	0.264	0.315
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.045	29.49	0.218	0.198
0.113	5.88	-0.297	-0.255
0.05	3.473	0.288	0.308
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.033	0.39	-0.329	-0.298
0.053	0.435	-0.23	-0.262
0.049	0.447	-0.247	-0.244
0.219	0.382	-0.269	-0.37
0.1	0.831	-0.39	-0.333
0.17	0.395	-0.4	-0.343
0.1	0.389	-0.391	0.261
0.137	0.405	-0.282	-0.308
0.19	0.389	-0.309	-0.29
0.183	0.384	-0.409	0.273

0.064	-0.347	0.28	-0.358
0.009	-0.302	0.262	-0.331
0.063	0.549	-0.255	-0.342
0.241	-0.612	0.428	0.486
0.134	-0.48	-0.321	0.366
0.391	-0.838	0.38	0.48
0.18	-0.355	0.358	0.288
0.241	-0.604	0.35	0.482
0.168	-0.492	0.408	0.336
0.468	-0.395	0.428	0.395
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.087	9.512	-0.272	-0.285
0.044	10.98	0.42	0.458
0.27	9.644	-0.341	-0.435
0	8.248	0.472	0.538
0	10.410	0.403	0.375
0.229	11.046	0.501	0.533
0.09	8.043	0.512	0.448
0.064	8.445	0.381	0.52
0	7.713	0.526	0.546

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0.053	5.872	0.494	0.958
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.183	-0.478	0.294	0.317
0.047	-0.481	0.233	-0.277
0.163	-0.53	-0.33	-0.387
0.155	-0.856	0.542	0.985
0.181	-0.871	0.338	0.437
0.185	0.334	0.23	0.27
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.422	0.493	-0.321	0.279
0.251	-0.986	0.475	0.538
1.939	-1.16	0.406	0.408
0.571	-0.843	0.253	0.443
0.205	-0.532	0.262	0.335
0.183	0.805	-0.422	-0.558

SLOPE 3	LINEARITY 1	LINEARITY 2	LINEARITY 3
0.278	0.83	-0.419	-0.354
0.854	-0.459	-0.358	-0.307
2.436	0.545	-0.859	-0.84
1.086	-0.666	0.348	0.398
0.269	1.228	-0.473	-0.379
0.114	0.362	-0.344	-0.639
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.329	0.669	-0.744	-0.723
1.569	1.591	-0.636	-0.974
1.939	0.858	-0.933	-1.021
2.016	0.528	-0.344	0.38
0.066	1.595	-0.282	-0.698
0.116	0.69	-0.536	-0.952
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
2.874	4.024	-0.718	-0.586
0.163	0.285	0.491	-0.245
0.24	2.748	-0.623	0.619
0	2.311	-0.521	0.463
0.168	2.955	0.302	-1.092
0.347	4.713	-0.835	-1.131
SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3			
0.348	0.376	0.29	-0.536
0.168	0.268	0.158	-0.171

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0.441	-0.331	-0.254	0.27
0.168	0.317	-0.201	0.26
0.225	-0.331	-0.449	-0.288
0.181	0.363	-0.244	-0.247

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.085	0.359	0.239	-0.387
0.227	0.24	0.17	0.207
0.139	-0.477	0.258	0.318
0.06	0.323	0.163	0.247
0.2	-0.371	0.41	0.367
0.201	-0.267	-0.183	-0.314

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.149	-0.303	0.258	-0.447
0.107	-0.297	0.169	0.268
0.093	0.388	0.223	0.24
0.095	0.326	0.132	-0.224
0.009	-0.361	-0.38	-0.271
0.07	-0.257	0.17	-0.336

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.157	0.372	0.214	-0.39
0.143	-0.242	-0.146	-0.186
0.063	-0.358	-0.326	0.263
0.067	0.34	-0.148	0.299
0.035	-0.322	-0.426	0.268
0.121	0.226	0.143	-0.24

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.04	0.225	-0.150	-0.378
3.702	-0.336	0.218	0.234
2.740	46.263	0.249	0.292
3.421	0.271	-0.189	0.19
2.624	-0.348	0.367	0.303
3.704	-0.266	-0.218	-0.276

SLOPE 3 LINEARITY 1 LINEARITY 2 LINEARITY 3

0.055	0.477	-0.337	-0.424
0.046	0.383	-0.23	-0.233
0.023	-0.368	-0.353	-0.28
0.018	0.52	-0.374	-0.384
0.147	0.388	-0.339	-0.31
0.073	0.402	-0.303	-0.396

c:\data\elctrack 2R 5hz sample #4 13g.xls

Sample 4 2R 5hz ±5mm 13g No Lube 1mA 12V o.c. 385K cycles 10 sec trigger no intermit section

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cycles	Stage	Amplitude	ohms	Nforce
0.015	4282.377441	4472.888973	13.007324	
61.674999	4751.858887	4437.027832	13.356445	
123.330002	4938.572754	4464.17041	13.473633	
182.550003	5014.550781	4464.264848	13.347168	
273.434996	5022.273826	4451.838867	13.481445	
335.125	5009.548387	4413.818848	13.458543	
394.854999	5012.278387	4454.028809	13.454102	
493.549988	5011.853808	4438.889258	13.481914	
551.308998	5008.551758	4442.674805	13.479004	
608.038878	5002.458884	4457.32373	13.451172	
666.505005	5008.325195	4468.88916	13.492678	
724.125	4998.350098	4458.241211	13.446289	
786.98999	5000.591309	4425.193848	13.443848	
844.684998	4982.243652	4464.395508	13.439453	
904.715027	4987.152344	4486.893555	13.479004	
964.825012	4987.478027	4469.868827	13.462891	
1024.305054	4998.495117	4454.905273	13.47168	
1084.380005	4994.144531	4451.086914	13.455078	
1144.655029	4995.403932	4459.425293	13.471191	
1204.38501	4997.786133	4449.82888	13.461914	
1264.160024	4998.239746	4414.636719	13.465332	
1323.839966	4998.518555	4403.78125	13.474121	
1383.535034	4997.896484	4422.174805	13.468775	
1443.25	4998.233250	4434.397949	13.478027	
1502.656029	5002.809691	4427.507812	13.485352	
1562.449951	4998.73584	4423.200884	13.463379	
1622.390015	5002.458495	4417.887207	13.461426	
1682.285005	5004.248535	4449.237793	13.462402	
1741.765016	5004.036133	4445.896873	13.511123	
1801.810034	5005.163574	4424.991889	13.468797	
1861.63501	5008.458496	4416.455078	13.475098	
1920.954956	4999.285156	4449.384277	13.440918	
1980.920044	5005.757324	4468.719239	13.430176	
2040.488971	5007.914082	4435.871582	13.479004	
2100.034912	5008.868016	4387.900879	13.464355	
2159.975098	5009.488281	4415.026879	13.438477	
2220.060059	5010.87793	4420.333008	13.489258	
2279.554932	5009.996094	4399.153809	13.477539	
2339.280029	5011.950684	4411.924316	13.473145	
2399.080078	5014.146873	4442.281738	13.427246	
2459.445068	5014.840625	4405.379385	13.451172	
2519.459961	5014.187988	4427.651855	13.458961	
2579.554932	5015.228027	4451.304199	13.47999	
2639.179932	5016.588355	4424.60498	13.461914	
2698.695068	5017.174316	4423.342773	13.475588	
2758.594971	5019.226074	4437.040039	13.419434	
2818.074951	5017.698777	4439.951172	13.422852	
2877.320068	5018.067891	4463.188477	13.470215	

2936.869912	5020.898437	4481.999023	13.452148
2986.574851	5021.036621	4477.419922	13.436523
3059.36499	5003.569338	4423.477051	13.45752
3116.945068	5021.192383	4425.77632	13.412598
3174.544022	4997.497559	4400.808887	13.442871
3231.975098	4998.79834	4421.517578	13.479004
3294.689941	5008.997559	4443.470215	13.422363
3351.889902	4998.841309	4453.826668	13.483379
3409.960107	4998.500488	4456.767109	13.443848
3472.389893	5002.188477	4449.425293	13.447286
3529.820068	5001.303711	4473.802051	13.455078
3587.050049	4994.446289	4450.304199	13.469727
3644.820117	4999.963867	4441.848437	13.483379
3702.300049	4992.948777	4398.397949	13.462402
3759.656029	5003.982402	4440.411133	13.459473
3817.034912	5001.932129	4428.07373	13.429199
3874.689941	5004.78123	4449.51416	13.416504
3932.27002	4997.283203	4483.778809	13.428477
3988.75	6003.258348	4454.359883	13.458008
4047.370117	4997.334981	4442.279785	13.437988
4104.88502	5005.983887	4441.125977	13.450684
4182.64502	4997.399414	4459.519043	13.436523
4219.798805	5004.821582	4481.512207	13.460449
4277.584941	4998.341309	4432.208984	13.454102
4335.39502	5007.609883	4428.58252	13.453379
4392.875	5000.00293	4438.066504	13.446777
4450.549805	5000.549805	4421.175293	13.456066
4507.709961	4999.488282	4433.350098	13.472656
4565.555176	5006.713379	4441.864746	13.408225
4623.22996	5000.379395	4467.458496	13.408281
4680.725098	5006.977051	4454.289457	13.46875
4738.524802	4998.813985	4465.383301	13.401387
4796.095215	5008.201172	4437.160156	13.474809
4853.490234	4991.307129	4406.287109	13.444336
4911.029785	5002.088379	4447.125977	13.446289
4988.939941	4983.537109	4443.808594	13.431841
5026.430176	5003.219727	4477.49707	13.439841
5084.060078	4994.389648	4430.40332	13.433105
5141.575195	5004.037598	4449.78418	13.452637
5198.950195	4995.212402	4468.875	13.4375
5256.634766	5004.253418	4465.867676	13.472856
5314.370117	4997.801582	4416.006836	13.442871
5371.924805	5003.488582	4426.087383	13.441895
5429.649902	4996.030273	4452.096191	13.444824
5487.35498	5003.780742	4434.990723	13.416504
5545.14502	4994.885254	4456.071777	13.437012
5602.634766	5004.807129	4452.821094	13.440918
5660.10498	4995.078125	4434.032715	13.474121
5717.785156	5001.880871	4450.345216	13.483887
5775.259766	4998.075195	4468.17334	13.414082
5833.009768	5004.932128	4462.618652	13.465332
5890.87998	4998.70459	4474.459961	13.441406

5948.515137	5006.444824	4440.511719	13.44043
6006.234863	4994.521484	4458.193809	13.444824
6063.774902	5004.512207	4470.520996	13.436036
6121.245117	4998.890137	4457.030273	13.442383
6178.88602	5006.658691	4495.901655	13.437988
6238.790039	4999.328172	4445.916504	13.407715
6294.438841	5006.535156	4457.09375	13.479492
6351.734863	4998.940918	4462.301758	13.424316
6409.484863	5006.685059	4437.049805	13.485352
6487.10498	4999.026879	4448.387207	13.431152
6524.334981	5000.016113	4426.443359	13.412598
6582.154785	5000.168945	4440.154785	13.43457
6630.625	5000.655273	4407.567871	13.410156
6697.345215	4993.400879	4440.63623	13.416016
6755.134788	5006.572266	4472.710449	13.438523
6812.785156	4993.323242	4459.579102	13.433105
6870.149902	5008.40625	4448.92041	13.471191
6927.835844	5001.478027	4451.718797	13.480957
6985.490234	5010.290039	4418.577637	13.442871
7043.055176	5002.055176	4475.409668	13.47168
7100.384768	5000.379683	4479.003906	13.458008
7158.279785	4995.202837	4444.229004	13.490723
7216.068824	5002.449219	4481.206056	13.455078
7273.884766	4964.883789	4459.131836	13.493184
7331.439941	5001.582285	4451.050781	13.40625
7389.310069	4994.747559	4475.854297	13.435059
7447.004893	5002.518066	4467.805957	13.453613
7504.819824	4998.774902	4476.19043	13.476074
7562.52002	5003.847658	4484.282715	13.455586
7620.125	4997.481914	4509.720215	13.458984
7677.640137	5000.053711	4454.790527	13.435547
7735.580078	5001.182617	4454.008799	13.431641
7793.555176	5001.496094	4423.629883	13.443848
7851.060078	4998.016113	4426.916504	13.410645
7908.839844	5001.162599	4411.128418	13.480957
7968.290039	4994.458008	4430.445312	13.462402
8029.850098	5003.381836	4470.09668	13.415527
8081.60496	4997.175293	4430.504883	13.42334
8139.490234	5004.510742	4496.314453	13.452637
8197.269631	4997.040527	4463.943359	13.473633
8255.044922	5004.578125	4456.583965	13.418457
8312.879883	4996.441406	4469.478492	13.433105
8370.825195	5002.012207	4454.624023	13.442383
8428.544922	4999.297852	4430.539062	13.461426
8486.344727	5007.388184	4475.885234	13.444338
8543.764648	4998.889629	4448.582773	13.44043
8601.379883	5003.846191	4458.623535	13.458008
8659.044922	4998.388184	4486.223145	13.495805
8716.599609	5004.802734	4472.974121	13.442671
8774.830078	4998.960449	4470.718797	13.435547
8832.290039	5003.474121	4461.197266	13.484355
8899.924805	4998.894043	4439.244141	13.40918

8947.554887	5008.537598	4432.955078	13.454102
9005.004883	4999.512207	4467.360392	13.468008
9062.554887	5008.349121	4442.754883	13.47998
9120.230469	5000.167448	4452.531348	13.466309
9177.965352	5008.571289	4471.824707	13.451172
9235.268531	5000.594238	4466.858203	13.446777
9292.840443	5004.748535	4467.027832	13.459961
9350.865039	4999.466309	4444.741899	13.440918
9408.180156	5007.450684	4463.834473	13.467285
9465.629883	4998.47998	4441.345215	13.481934
9523.405273	5003.157227	4462.891895	13.442383
9581.125	5001.744141	4485.185547	13.437988
9638.440443	5006.825684	4471.178223	13.468797
9695.83457	4999.986326	4434.199219	13.479004
9753.849808	5007.782715	4448.831348	13.461428
9811.615234	5000.314941	4444.815453	13.45168
9869.069844	5001.583008	4485.068848	13.424805
9928.580078	4987.775391	4479.959473	13.438035
9984.55957	5008.163088	4473.729804	13.433105
10042.07031	4992.080379	4484.23291	13.415039
10099.84981	5000.924316	4463.083008	13.44043
10157.55957	4991.580566	4422.225088	13.42041
10215.02539	5000.980957	4437.958008	13.490234
10272.79492	5001.18457	4470.373535	13.468262
10330.70508	5001.761719	4445.718797	13.460937
10387.95886	5003.047852	4445.068406	13.424316
10445.49512	5003.573828	4427.583496	13.410645
10502.80469	4993.182617	4430.238281	13.505859
10560.39453	5000.845215	4459.696777	13.433105
10618.19531	4991.686892	4455.23877	13.456055
10675.91892	5001.424805	4495.498047	13.448242
10733.79004	4992.223145	4441.455078	13.443359
10791.74023	5000.100586	4446.85918	13.447266
10849.43457	4992.003418	4470.439453	13.443848
10906.90039	4999.179199	4472.33252	13.491599
10964.44531	4993.744141	4498.205078	13.444338
11022.08496	4998.725098	4474.466309	13.467285
11079.78465	5000.388164	4459.446777	13.470215
11137.24023	5002.984375	4476.999023	13.484375
11194.97461	4994.090682	4458.952637	13.434082
11252.89043	5001.526855	4464.23291	13.449707
11310.41992	4993.88209	4444.963887	13.434082
11368.12012	5003.946777	4481.104004	13.432129
11425.88965	4993.96875	4468.206055	13.463857
11483.49023	5002.779785	4473.131348	13.419434
11541.37012	4997.499023	4489.09082	13.459473
11598.8502	5006.128535	4472.153808	13.449218
11656.41992	4995.523926	4455.532227	13.45752
11714.13477	5005.380371	4428.084981	13.432617
11771.80039	4995.020508	4440.066406	13.423828
11829.5752	5007.088379	4428.891602	13.459473
11887.41992	4998.045898	4450.067383	13.466797

11945.18531	5008.324707	4414.07666	13.427246
12002.67481	4997.214844	4405.806152	13.465332
12060.30957	5007.15825	4423.54541	13.464844
12123.54981	4998.972168	4445.788621	13.444338
12181.08008	5008.050293	4488.114746	13.450185
12249.34473	4998.093262	4443.43457	13.390625
12312.2002	5007.52002	4427.404297	13.439941
12380.50977	4998.46875	4478.382812	13.462891
12440.72481	4978.281504	4497.748535	13.487793
12503.38965	6007.362305	4439.683574	13.467773
12566.40199	4997.177246	4424.875	13.468797
12624.12968	5005.675781	4450.459961	13.374023
12681.86504	4997.57959	4440.82886	13.463867
12739.375	5005.995117	4445.583008	13.300781
12796.83498	4997.1875	4428.119141	13.364746
12854.3252	5008.502441	4444.352539	13.45186
12917.21973	4997.109375	4445.435547	13.380858
12974.69043	5005.023926	4457.747559	13.435058
13032.54492	4997.583262	4449.916016	13.338379
13095.29004	5008.260254	4468.898047	13.427734
13152.69531	4998.554687	4431.956055	13.427246
13220.92968	5005.388672	4444.012207	13.436523
13280.82031	4978.343262	4465.876488	13.431641
13348.97481	4998.365234	4451.73291	13.447268
13408.62988	5008.506836	4447.960837	13.414082
13474.72481	5000.544922	4480.710837	13.428711
13532.39477	4979.069824	4467.281016	13.398928
13589.82031	4980.003418	4469.197754	13.449707
13654.79492	4995.942871	4454.320801	13.442871
13717.44043	4998.367676	4429.958984	13.474809
13776.68984	4979.211914	4458.760468	13.431541
13836.21973	4981.787109	4434.071289	13.450684
13893.77538	4980.031738	4482.189941	13.454102
13961.75488	5001.601562	4477.384043	13.396484
14021.84473	4980.035845	4475.897949	13.402832
14081.80957	4981.354004	4465.492187	13.349121
14144.40527	4996.859863	4446.521973	13.479492
14204.12012	5000.053223	4454.503418	13.483388
14261.15039	4981.528855	4483.249512	13.45188
14320.80038	4982.361816	4472.488281	13.450684
14380.66504	4982.473633	4461.820312	13.444824
14440.35547	4979.61377	4485.32959	13.385254
14500.02538	4982.498582	4458.581309	13.487773
14556.875	4978.488281	4459.513184	13.480469
14614.24023	4981.538086	4481.444336	13.407227
14671.75488	4983.587402	4485.974609	13.433594
14731.47461	4981.709861	4474.351074	13.440918
14791.33984	4981.722168	4456.613281	13.458496
14851.22481	4981.475586	4454.772949	13.446777
14911.15039	4982.574219	4452.242187	13.47988
14971.24023	4982.429587	4466.807129	13.460837
15031.19043	4983.01709	4458.637695	13.458055

15080.64453	4985.024414	4446.638719	13.423828
15150.78027	4983.788316	4451.658691	13.462891
15210.48484	4982.879887	4425.603518	13.458008
15270.91543	4982.958008	4482.314941	13.480449
15330.41018	4984.236352	4479.973145	13.480469
15389.94531	4985.091909	4454.692383	13.438965
15449.51953	4983.056152	4442.953613	13.483398
15509.19531	4984.314453	4415.121582	13.458488
15569.22481	4986.292968	4435.875	13.433105
15629.3252	4984.577148	4469.873047	13.477051
15888.96973	4982.54541	4441.396973	13.468262
15749.02538	4983.877734	4423.533891	13.460937
15808.89453	4985.543946	4441.349121	13.423828
15868.82988	4985.888072	4443.633301	13.448242
15929.01953	4985.241699	4455.671875	13.427734
15989.28027	4983.858881	4445.873828	13.483867
16048.84473	4985.892383	4446.443848	13.484844
16109.25	4983.901367	4440.454102	13.480469
16169.36035	4985.895489	4432.206065	13.472656
16229.35547	4985.085703	4470.651367	13.45106
16289.32031	4985.515137	4458.206904	13.457031
16349.07031	4985.70752	4449.278809	13.473833
16408.88477	4984.490234	4485.382812	13.456055
16468.66992	4986.020996	4453.145508	13.455586
16528.5957	4984.374512	4447.845703	13.488328
16588.85547	4984.810645	4421.543457	13.406738
16648.5293	4982.794434	4469.259277	13.433594
16708.42578	4982.802734	4446.089844	13.477051
16768.25	4985.647481	4471.97188	13.407715
16826.76563	4983.731445	4454.584453	13.405762
16886.57422	4983.844727	4464.216308	13.450195
16945.89463	4983.734375	4482.709961	13.410158
17005.5957	4982.652632	4438.834961	13.477539
17065.80078	4984.580078	4458.79834	13.477051
17125.67578	4984.258768	4469.213867	13.456085
17185.3457	4982.475098	4486.058594	13.456543
17245.39063	4983.986797	4468.057129	13.442671
17305.49414	4983.338887	4477.312988	13.453613
17365.8457	4985.514648	4459.713379	13.409888
17425.78806	4985.290039	4450.689219	13.448707
17486.00586	4984.98262	4439.51418	13.446777
17545.76953	4983.759766	4464.911133	13.415039
17605.74414	4986.251465	4465.972168	13.476074
17665.7793	4984.818359	4453.900891	13.417989
17725.45508	4984.388211	4448.07959	13.438035
17785.5	4984.581055	4442.154785	13.475588
17845.24414	4985.333884	4464.061523	13.487305
17906.27539	4984.776387	4433.398414	13.450195
17965.24414	4985.631896	4492.885547	13.455588
18024.90039	4985.30127	4473.807129	13.472658
18084.5	4984.393066	4457.943848	13.447288
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18204.11523	4986.658691	4446.974609	13.448242
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18383.48047	4986.550293	4477.138184	13.436523
18443.36523	4987.006836	4473.049316	13.45186
18503.53906	4988.930941	4467.779297	13.452148
18563.32422	4987.21875	4427.155752	13.432129
18622.66992	4985.477539	4454.068848	13.415039
18682.56055	4985.774414	4465.316895	13.438477
18742.375	4984.606446	4455.928223	13.473833
18802.30378	4987.168016	4444.57373	13.493184
18862.58008	4986.439453	4476.014646	13.441885
18922.16406	4985.875488	4455.344236	13.443359
18982.31055	4986.441406	4483.444336	13.428711
19042.08984	4985.634277	4459.897949	13.453125
19101.80078	4987.541992	4455.838184	13.451172
19161.18555	4986.148926	4461.568336	13.42041
19221.11914	4984.510742	4458.864746	13.458486
19281.31445	4987.576866	4473.308694	13.45762
19341.3457	4986.856445	4499.62793	13.388672
19401.24023	4985.294434	4486.90332	13.453125
19460.88477	4984.948289	4485.84375	13.48291
19521.17989	4986.847188	4488.788574	13.486797
19580.91018	4985.500977	4463.03125	13.483879
19640.57422	4986.472168	4474.286621	13.430864
19700.61914	4986.358887	4500.00293	13.443359
19760.5957	4987.029785	4480.011719	13.481934
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19880.32422	4987.101582	4481.580078	13.478027
19940.27539	4987.9375	4458.149414	13.464844
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20050.63086	4987.779785	4435.582031	13.452148
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20240.07422	4987.376465	4463.458055	13.477051
20299.91406	4989.201172	4480.806934	13.461426
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20420.16406	4989.168016	4447.53418	13.436523
20480.14453	4991.209961	4434.246094	13.462991
20530.83984	4990.659668	4446.601074	13.436059
20590.80938	4991.522481	4452.578125	13.43457
20650.87578	4998.70752	4487.15332	13.463887
20710.63086	4998.292963	4443.621582	13.438965
20770.57031	4990.571777	4447.719727	13.437988
20830.77539	4998.722656	4473.824316	13.430178
20890.41592	4990.050283	4431.133789	13.47998
20950.73047	4991.160158	4454.203613	13.449219
21010.925	4993.588379	4473.784648	13.456055
21070.48438	4992.197268	4461.326172	13.486816
21130.23438	4990.660156	4458.962891	13.446289
21197.9043	4990.091309	4449.781738	13.450195
21250.30469	4990.265625	4440.969238	13.449707

21318.04492	4992.273437	4411.84668	13.460837
21378.24414	4990.58252	4447.238281	13.444336
21438.19922	4992.04541	4455.786133	13.438477
21497.91406	4991.729492	4451.427246	13.463687
21557.76906	4989.04248	4489.598145	13.452148
21617.82031	4989.283691	4450.509768	13.458008
21677.99023	4985.29541	4493.950195	13.434082
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21797.30078	4987.635254	4434.118652	13.446777
21856.55489	4988.670888	4463.799805	13.468473
21916.72461	4988.893555	4486.124512	13.441406
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22154.41992	4992.898926	4458.873047	13.423029
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22274.18555	4990.732422	4448.001953	13.451172
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22453.89086	4993.940918	4442.674316	13.445801
22513.71484	4994.521973	4466.992676	13.477051
22573.42969	4993.237305	4457.965682	13.462891
22633.24023	4993.55127	4473.823047	13.430884
22693.17969	4994.049316	4492.129683	13.48875
22753.03906	4995.806445	4435.973145	13.462891
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22872.126	4993.688016	4468.963125	13.463887
22931.81523	4993.078613	4458.973633	13.460937
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23291.99023	4993.209981	4478.859688	13.431152
23351.67578	4994.524414	4487.500488	13.441406
23411.22461	4993.844238	4466.474609	13.464355
23471.02539	4994.831543	4463.0625	13.461914
23530.49023	4990.898777	4457.238258	13.425781
23590.71484	4993.07373	4440.213379	13.442871
23660.81446	4993.321289	4456.625488	13.431641
23710.76953	4993.992676	4479.515137	13.447754
23770.52539	4993.444824	4465.070801	13.462402
23830.42578	4994.619629	4476.382812	13.468282
23890.43555	4994.268088	4476.340332	13.432617
23950.57422	4992.539082	4486.301758	13.480957
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24070.14453	4994.658691	4448.898047	13.463857
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24788.80078	4999.895508	4432.825195	13.445312
24848.875	5000.885723	4444.530273	13.483398
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25027.78863	5000.186777	4494.888184	13.472168
25087.82031	5000.194824	4477.820117	13.435547
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25507.18555	4999.368899	4478.79834	13.472168
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31019.84981	5005.277344	4412.404785	13.412598
31080	5006.45166	4404.280039	13.45459
31140.01953	5002.227539	4450.885801	13.445312
31199.18922	5005.647949	4480.855469	13.435059
31258.81445	5005.825195	4465.583496	13.438941
31319.06594	5008.279287	4490.550293	13.418504
31378.77539	5008.717773	4464.384277	13.480489
31438.34961	5007.45458	4458.568359	13.488797
31498.32422	5005.772949	4441.924318	13.453125
31558.33594	5007.447286	4428.846484	13.42334
31619.31055	5009.166892	4468.785137	13.462891
31878.47461	5007.504083	4438.261719	13.462891
31737.92578	5007.387207	4487.780254	13.466308
31797.85547	5006.720793	4423.204102	13.44043
31858.08055	5007.072754	4484.387481	13.475586
31817.80078	5007.450684	4456.82969	13.423828
31877.97481	5009.044922	4451.388672	13.414062
32037.91406	5008.150879	4448.652832	13.438965
32087.66406	5003.932477	4462.812793	13.428711
32157.49023	5006.516113	4452.422962	13.411133
32217.24414	5005.93457	4464.493164	13.460937
32278.87578	5004.263672	4423.850098	13.418945
32338.80938	5008.050293	4471.878004	13.488748
32396.85938	5004.327148	4437.51123	13.383301
32456.69922	5005.282715	4448.455568	13.444824
32516.7207	5005.879395	4420.374023	13.407227
32572.0293	5002.67041	4471.988281	13.458984
32632.17578	5003.350586	4492.001485	13.461914
32691.80978	5006.894824	4443.811035	13.438477
32752.09951	5009.1875	4447.312012	13.452837
32811.92969	5006.52002	4449.135742	13.464355
32871.72656	5008.226074	4454.846191	13.474121
32931.80938	5005.243184	4428.183105	13.486797
32991.22856	5007.14209	4488.182617	13.416992
33050.80659	5008.174805	4471.925781	13.495117
33110.5	5005.896484	4469.968238	13.444336
33170.16406	5007.047852	4437.136719	13.452148
33230.19822	5007.088355	4464.929687	13.48291
33289.94531	5005.988281	4457.40332	13.4375
33349.75	5008.422852	4470.260742	13.477539
33409.86328	5006.032715	4441.101582	13.438523
33469.98438	5007.772461	4478.740723	13.433105
33529.85938	5008.326172	4459.989727	13.450884
33580.00391	5005.134766	4425.899414	13.458008
33649.91406	5009.892871	4487.412598	13.431152
33709.69141	5007.891602	4449.978562	13.458055

33769.54688	5008.679687	4455.729482	13.458884
33829.95313	5008.249512	4428.378418	13.456549
33889.64453	5010.472858	4455.87334	13.422363
33949.72858	5009.855588	4461.793457	13.420896
34009.42578	5008.480837	4482.134788	13.403809
34069.42578	5009.85752	4452.842773	13.431152
34129.26953	5007.351562	4443.48584	13.479004
34189.12891	5010.503808	4427.449707	13.493652
34248.81641	5010.786133	4435.484863	13.429687
34309.07422	5008.402344	4413.46532	13.400879
34369.14063	5005.926758	4467.927246	13.421875
34428.80469	5009.856834	4467.884375	13.425781
34488.69531	5009.363281	4463.699219	13.459961
34548.17188	5011.520508	4437.183105	13.452637
34608.06641	5008.888872	4483.581055	13.459473
34667.70313	5010.021973	4429.488682	13.42627
34727.60156	5011.232422	4436.439453	13.381348
34787.64063	5007.387949	4446.830078	13.465332
34847.28518	5011.991211	4458.008789	13.454559
34908.60859	5008.944824	4466.978627	13.4375
34966.70313	5008.480857	4470.181133	13.448242
35028.87109	5006.319336	4460.599609	13.456543
35086.85158	5007.474809	4428.662109	13.45166
35146.21875	5010.01709	4422.159668	13.499463
35208.18359	5010.085837	4447.203125	13.473833
35266.22656	5009.727051	4450.372559	13.439453
35325.98828	5009.182588	4458.823047	13.477539
35386.05078	5007.379395	4442.723145	13.444824
35446.25	5008.530273	4382.584961	13.445312
35505.42969	5009.765137	4488.087109	13.439941
35564.87109	5010.847658	4456.208498	13.449219
35624.44922	5011.887891	4438.849121	13.416527
35684.23047	5005.833301	4477.813477	13.471191
35743.82031	5010.143555	4472.220215	13.442871
35803.41408	5010.110352	4471.12793	13.426223
35863.21084	5011.843068	4464.728027	13.405762
35923.29688	5013.924316	4469.687988	13.461426
35982.97858	5011.5625	4435.955566	13.408203
36042.82422	5012.302246	4439.52832	13.474609
36102.88358	5013.103518	4421.868652	13.426223
36162.13672	5012.749512	4460.841797	13.440493
36221.42578	5014.086428	4462.143555	13.467773
36281.16408	5014.187012	4444.026855	13.461426
36340.88359	5009.313477	4427.729492	13.444824
36400.08984	5011.873535	4460.619629	13.408691
36459.70313	5010.204102	4426.21582	13.444338
36519.98047	5013.375977	4431.383555	13.450195
36579.92969	5011.667969	4420.350586	13.42627
36639.82422	5010.257812	4441.222168	13.438477
36699.48047	5011.846508	4471.208543	13.467285
36758.98047	5009.755371	4451.084473	13.47188
36818.54688	5011.576172	4434.21875	13.486328

38878.31641	5010.393068	4483.964844	13.447754
36933.66406	5013.028785	4441.299316	13.437012
38993.46484	5014.964355	4437.894531	13.444336
37052.82031	5014.84082	4484.012207	13.463379
37112.96094	5014.944336	4465.229908	13.463379
37172.64063	5015.435547	4458.396973	13.461914
37232.23828	5016.98707	4444.962422	13.438477
37282.125	5015.593262	4480.02002	13.428223
37362.14844	5016.200195	4454.569844	13.41748
37411.26963	5014.563477	4509.992876	13.418945
37471.40625	5015.375	4450.60791	13.458884
37531.33984	5016.867187	4474.438965	13.427246
37591.39063	5019.038088	4484.864748	13.430684
37661.23828	5015.700195	4457.875488	13.496582
37710.75391	5011.706055	4430.122559	13.433105
37770.85938	5014.902344	4430.070801	13.425781
37830.90625	5014.032227	4420.917969	13.436523
37891.03516	5016.878806	4488.617678	13.429687
37950.44531	5012.842578	4471.534888	13.458543
38009.67188	5015.054687	4493.660547	13.436035
38069.70313	5014.681152	4489.844238	13.43457
38129.46875	5017.553711	4459.831543	13.453613
38188.95313	5018.853027	4489.527344	13.438523
38248.84141	5018.284688	4450.994141	13.44043
38309.01563	5015.818184	4461.804492	13.48582
38368.53906	5018.789043	4427.381348	13.424805
38428.15625	5017.444824	4432.505858	13.488281
38487.83984	5019.804687	4437.123535	13.41748
38547.78516	5016.38623	4432.375488	13.422363
38607.66406	5018.154297	4423.611328	13.403809
38667.65625	5019.535845	4431.000488	13.456055
38727.60547	5018.858473	4431.717285	13.424316
38787.53125	5018.490723	4457.447754	13.4375
38847.03125	5018.537588	4451.412109	13.442383
38906.80489	5017.958055	4472.474809	13.469727
38966.94531	5017.159809	4431.67334	13.453125
39026.91016	5016.88523	4452.798828	13.445312
39086.73047	5016.766602	4437.966816	13.456984
39148.23047	5018.031738	4450.922334	13.452637
39226.55859	5011.380371	4468.140137	13.43457
39284.28906	5019.008789	4420.85332	13.444336
39344.39844	5016.583008	4473.05127	13.461914
39404.01563	5020.554687	4449.167969	13.488281
39461.03125	5017.806841	4479.638184	13.443359
39528.84375	5005.038088	4515.142578	13.453125
39588.96047	5019.574707	4448.155273	13.465332
39648.78906	5017.398437	4464.688059	13.424805
39708.76172	5019.207031	4446.424316	13.461426
39768.875	5028.84375	4443.25293	13.486328
39828.825	4998.224121	4412.537588	13.439941
39894.85547	5005.500977	4394.013184	13.470215
39957.89984	4998.255371	4442.762207	13.441406

40026.06841	5008.978074	4411.84082	13.444824
40088.32422	5007.230857	4413.882812	13.459473
40148.84063	5021.686523	4431.442383	13.446289
40209.24609	5001.313477	4448.090547	13.416504
40266.71094	5008.819338	4434.528297	13.437988
40334.86328	5001.704102	4438.786113	13.438477
40395.43959	4987.085449	4437.08543	13.487305
40450.62109	5000.022461	4442.22998	13.440443
40513.49809	5008.78709	4391.861328	13.404297
40578.26563	4992.122559	4445.899902	13.432817
40636.46094	5023.233887	4443.905782	13.458008
40699.28563	4989.438453	4437.310059	13.427734
40756.71094	5001.768113	4418.879687	13.457031
40816.87891	5018.888016	4440.158203	13.459473
40874.38672	5001.228516	4444.629883	13.454559
40931.75391	4991.039551	4418.339844	13.44873
40991.81406	5016.401367	4424.881816	13.448777
41048.12991	5021.813477	4450.169434	13.472168
41109.59376	5019.462402	4432.56543	13.45186
41166.92969	5018.0625	4447.814941	13.445801
41234.82813	5001.282227	4451.830078	13.442383
41294.82813	5023.856934	4422.040527	13.452148
41352.89453	5023.882305	4443.938985	13.41748
41409.85938	5024.415039	4450.577637	13.411621
41467.50391	5020.081055	4427.33252	13.425283
41530.32031	5003.028809	4453.774902	13.435059
41588.01563	4995.338379	4476.827637	13.45168
41645.28125	4988.878418	4464.781738	13.452148
41708.19141	4983.068408	4460.982891	13.430178
41770.87578	5002.114746	4451.037109	13.398926
41828.45313	4993.537598	4451.259766	13.449707
41886.04688	5007.091797	4398.817871	13.450195
41943.30469	4997.139648	4443.304687	13.492167
42000.56641	5004.20762	4430.432617	13.43457
42058.10156	4998.638184	4438.819338	13.422852
42115.46464	5002.851367	4468.935059	13.395998
42173.30078	4994.620117	4429.413574	13.420898
42231.03125	5001.824219	4438.189453	13.432129
42293.88672	4998.818848	4431.309082	13.428223
42351.55658	5001.077148	4433.425781	13.458473
42414.43359	4992.988261	4408.260254	13.462881
42472.09375	5001.141602	4423.580059	13.450195
42529.75	4993.693848	4443.849121	13.433594
42587.22856	5000.111328	4447.733887	13.434082
42644.78125	4994.888719	4464.875	13.471191
42702.21875	5004.756348	4474.258301	13.385508
42760.22656	4995.117676	4444.797852	13.429887
42817.67989	6005.137695	4454.675293	13.458473
42875.03125	4995.824219	4406.470703	13.442383
42932.5	5001.742187	4442.566895	13.4375
42995.42188	4985.715332	4425.072754	13.426223
43053.03906	4999.875488	4428.581543	13.487773

43110.86016	4996.933584	4437.554867	13.439453
43168.41016	5002.18457	4447.284668	13.436547
43226.01172	4996.220703	4430.382324	13.423828
43283.81641	5005.443848	4457.857715	13.438841
43341.74609	4995.952637	4421.768113	13.462891
43388.55859	5002.419434	4460.188985	13.432617
43457.08641	5002.808738	4422.122559	13.439941
43514.98828	5003.269672	4449.214844	13.436523
43572.71084	4994.818359	4418.041992	13.421387
43630.27344	5004.286133	4445.884062	13.463379
43687.87188	4993.147949	4447.912109	13.484355
43745.24609	5002.273437	4463.716309	13.435059
43802.62891	4996.53418	4468.94043	13.478515
43860.21484	5001.859375	4480.435059	13.461428
43917.84375	4994.702637	4453.729004	13.434082
43975.64453	5001.791172	4452.519043	13.437012
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44090.55859	5001.330568	4443.256348	13.453125
44148.41016	4994.804159	4400.916434	13.414062
44206.70313	5020.108445	4426.627441	13.473145
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44326.36328	5001.966797	4461.400391	13.458008
44389.61328	5000.953613	4467.439176	13.44873
44447.19531	5002.362612	4499.72168	13.430176
44507.47656	5023.895998	4485.843262	13.462891
44565.42578	5021.082452	4480.378906	13.437988
44623.03516	5022.763672	4467.451172	13.455566
44680.87969	5022.980837	4464.849609	13.443359
44738.19922	5023.422263	4434.583008	13.484375
44795.91406	5025.72998	4450.269531	13.404785
44853.5	5023.793457	4488.302248	13.445312
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44968.78806	5025.731934	4469.123047	13.420898
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45141.69141	4996.822263	4491.004883	13.426223
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46547.96094	4996.878485	4480.054867	13.45188
46605.61328	5004.855273	4476.142578	13.429687
46663.19141	4996.277344	4467.263184	13.437988
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46244.92969	4995.918945	4425.639648	13.429687
46302.19531	5005.748094	4420.198242	13.427734
46359.81328	4997.067383	4424.20186	13.441406
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46535.98094	5003.538821	4478.568359	13.480957
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47248.82813	4997.191895	4447.316406	13.464844
47311.44922	5004.489258	4391.752441	13.46582
47375.51563	4996.446289	4443.877441	13.437012
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47758.30468	4992.070312	4414.970215	13.458055
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50190.67188	5008.463867	4443.983398	13.460449
50254.50391	4995.531738	4383.864746	13.444336
50317.19141	5001.084961	4429.867187	13.43457
50380.69531	5002.555176	4439.11084	13.431152
50443.69531	4995.544434	4448.466816	13.462402
50509.41406	5003.138184	4480.73291	13.447268
50572.87969	4995.430178	4480.912109	13.439453
50636.99609	5001.838979	4472.715202	13.418457
50701.06641	4998.447754	4438.183594	13.445801
50764.32422	5001.820801	4470.188477	13.450684
50828.14063	4995.01123	4463.21582	13.464355
50889.27344	5023.879683	4451.98584	13.414551
50952.44922	4998.551758	4445.357422	13.473633
51008.5	5023.382305	4471.984844	13.481426
51067.84453	4991.266113	4450.083008	13.487305
51123.57031	5021.558105	4501.289551	13.399602
51183.17969	5000.021973	4487.25	13.462402
51239.41406	5021.141602	4467.210449	13.46582
51302.30078	5000.958496	4476.152832	13.473145
51367.17188	5001.400391	4475.162109	13.402832
51428.25	5023.729004	4489.110352	13.436035
51483.47656	5022.28418	4417.009766	13.417969
51542.07031	4991.871875	4438.131836	13.441895
51602.89609	5021.015625	4437.995605	13.456078
51660.28906	5001.899414	4439.43457	13.450684
51722.08594	5021.290527	4476.349121	13.450684
51783.16406	5017.753418	4454.463887	13.41748
51848.96484	4999.904785	4435.995117	13.454102
51908.96875	5021.382812	4469.26709	13.476074
51967.27344	5020.528297	4458.783691	13.447268
52028.80659	5019.053477	4448.933594	13.451172
52083.17188	5001.072266	4452.609375	13.411139
52161.60547	4997.584473	4488.761719	13.438965
52220.33594	5017.508836	4476.391602	13.449219
52280.75	5023.745117	4473.654297	13.421387
52342.50391	5020.445801	4458.59082	13.451172
52398.69531	5000.489748	4502.822266	13.442871
52461.32422	4989.89043	4451.419434	13.411133
52531.20313	4999.420898	4471.151855	13.432129
52592.22658	5002.183105	4489.841797	13.435547

52649.96094	5022.811523	4485.300293	13.456055
52716.32422	4995.584082	4463.490664	13.433594
52775.98047	5016.797363	4454.967285	13.449707
52833.14083	5018.896777	4456.015625	13.473633
52892.28125	5021.055176	4418.111328	13.429199
52952.21484	5019.330914	4431.680176	13.463867
53009.41406	4996.4375	4429.381838	13.426758
53067.48828	5022.548828	4402.156738	13.41748
53124.10547	5005.387695	4403.170498	13.430176
53182.95313	5018.938594	4379.530762	13.408203
53241.32422	5019.187988	4452.777344	13.45459
53297.01172	5019.78709	4426.522461	13.484355
53357.23828	5016.03125	4457.03418	13.393088
53413.96828	5019.432129	4465.010254	13.513184
53471.78172	5015.83252	4418.866699	13.476074
53533.08084	5015.415039	4440.399902	13.450195
53594.60156	5019.488023	4449.04834	13.438035
53650.96484	5019.389648	4473.708864	13.493164
53709.27344	5018.327148	4425.874512	13.459473
53766.19922	5011.812012	4432.182129	13.458473
53822.38644	5015.580566	4448.678711	13.458498
53883.67969	5014.161621	4427.237305	13.442383
53940.65825	5017.291992	4473.555178	13.447754
54000.05078	5007.984863	4472.752893	13.463379
54059.67969	5010.365723	4480.125	13.445801
54116.92969	5010.811816	4459.75	13.435547
54179.10938	5014.553223	4475.770508	13.429199
54239.84375	5010.847168	4433.294922	13.395898
54301.35547	5009.22998	4434.258789	13.453613
54360.50641	5009.074707	4413.631348	13.48584
54421.55859	5005.981445	4457.001953	13.445312
54478.19141	5003.833984	4410.362639	13.441895
54534.01953	5005.365723	4441.028809	13.432129
54594.61326	5004.742676	4418.727051	13.478027
54655.88453	5005.148826	4421.023437	13.44043
54712.03125	5005.184551	4450.833496	13.432617
54767.44922	5006.92041	4452.803711	13.445312
54823.42969	5005.11377	4451.332031	13.443848
54884.63872	5005.442383	4408.01418	13.451172
54945.41016	5004.777892	4467.282227	13.436523
55005.18018	5006.400879	4450.549316	13.442383
55068.68631	5002.853027	4424.416018	13.45752
55127.24809	5004.583262	4424.128906	13.455078
55182.98047	5001.882812	4465.929199	13.436523
55242.49609	5001.16748	4427.855957	13.486328
55302.84844	5000.28418	4439.399414	13.429199
55362.87109	5003.502441	4461.407227	13.45166
55423.42578	5001.231934	4461.291018	13.456055
55483.125	4987.275879	4472.027632	13.459473
55541.96484	5002.872168	4498.007324	13.438477
55602.87109	5000.629883	4507.15918	13.45166
55664.12891	5001.637695	4452.359375	13.443848

55724.55078	5002.959961	4484.885742	13.46582
55784.45313	4999.845508	4448.618652	13.40825
55846.19631	5004.826466	4468.103516	13.453613
55901.80859	4996.293945	4445.224121	13.43457
55963.375	4997.341797	4442.845312	13.446777
56019.80078	4998.859863	4458.902832	13.397461
56076.16016	4998.034688	4441.816895	13.437988
56138.08594	4996.707031	4445.413574	13.456496
56194.16016	5000.887012	4428.821289	13.450195
56250.34375	4999.87627	4447.193848	13.43457
56310.64663	5000.02832	4439.42334	13.42334
56370.68360	4996.152832	4457.604482	13.447754
56432.07813	4999.376485	4437.760742	13.442871
56492.64844	4994.220215	4438.849809	13.43457
56552.12891	4993.425293	4440.630371	13.456543
56650.15625	4998.64209	4479.849609	13.439463
56709.14844	4993.339355	4481.111816	13.44673
56769.55859	4994.520508	4482.769043	13.43457
56825.94922	5003.798318	4448.898047	13.46875
56882.97656	5002.487227	4448.544434	13.401387
56938.61953	5007.810547	4464.885254	13.423828
56993.98047	5000.722168	4463.854785	13.518113
57053.44922	4974.916113	4465.561523	13.457031
57112.71875	5001.412598	4456.870005	13.418457
57178.18922	5001.790527	4452.585449	13.431641
57241.17578	5003.298113	4472.032715	13.482422
57309.62891	4998.647461	4489.34375	13.425781
57366.54688	4997.992187	4447.972188	13.461428
57423.19141	5001.155762	4444.022461	13.613281
57482.08964	4981.335449	4443.875468	13.474609
57550.23047	4997.764848	4435.030762	13.425293
57606.85938	4980.074707	4402.109375	13.454102
57662.625	4989.768788	4424.085818	13.430664
57718.56641	4984.622559	4420.82959	13.439941
57779.92578	4990.943848	4439.179687	13.405273
57836.12109	4995.375	4448.074707	13.411621
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58015.85938	4992.614258	4454.672983	13.433105
58077.78172	4994.434062	4456.219238	13.447754
58138.23628	4992.389848	4458.941895	13.461914
58197.66016	4993.289043	4451.533891	13.387895
58253.96828	4994.172852	4398.78125	13.472856
58313.82813	4994.801758	4420.909668	13.473633
58370.44922	4994.966816	4458.336914	13.450195
58430.77344	4997.145996	4445.479004	13.460937
58487.05469	4987.459473	4437.311523	13.45459
58543.01583	4989.609375	4458.500468	13.45188
58599.17578	4990.433105	4466.97998	13.442871
58659.80078	4988.738281	4457.931152	13.453125
58716.42188	4987.388872	4404.1875	13.475098
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58941.14844	4981.13623	4437.879883	13.46562
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59116.07813	4988.284922	4457.273926	13.447268
59175.19141	4981.100586	4457.378418	13.458496
59233.79688	4981.301758	4443.227051	13.496582
59294.79688	4978.428199	4467.389648	13.447268
59358.40625	4980.418945	4469.276855	13.422652
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59476.76906	5008.427248	4433.352539	13.437988
59532.86328	4978.873047	4444.885039	13.422652
59591.28125	4996.531738	4415.348145	13.48291
59652.89844	4978.932817	4396.35498	13.469238
59710.94531	5002.163674	4437.048028	13.466543
59775.30078	4995.072288	4419.251953	13.441895
59838.26172	4974.242187	4446.781738	13.42041
59892.68531	5002.215332	4451.237305	13.44873
59956.94922	4991.777632	4465.061655	13.435547
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60088.82813	4989.504883	4445.153809	13.477051
60151.46875	5007.180884	4432.783203	13.40916
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60345.91406	5004.163105	4468.168504	13.474609
60409.44141	5000.508277	4453.418504	13.438941
60474.01563	5000.999512	4417.193359	13.434082
60538.11328	5003.305884	4434.163574	13.43457
60601.94531	4999.39602	4468.120805	13.475588
60665.42578	5002.289821	4485.945312	13.476074
60729.81641	4988.068895	4452.843555	13.452637
60793.44141	5003.509277	4446.852051	13.445801
60859.27344	4998.640825	4423.108887	13.448242
60924.23047	5002.808594	4466.010254	13.481934
60989.07813	4997.419434	4465.396926	13.398414
61053.44531	5002.932129	4468.896484	13.441895
61118.94531	4999.283691	4458.583984	13.435059
61183.55078	5004.793945	4422.358398	13.484375
61250.35938	4996.957031	4457.428711	13.447268
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61442.57813	5001.519531	4442.621094	13.450195
61508.54453	5001.175781	4422.381836	13.45752
61572.03518	5000.064961	4449.637695	13.471191
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61894.71484	4995.32959	4455.491211	13.458984
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62087.46094	5005.998535	4472.998047	13.450684
62151.61641	4998.373535	4468.839644	13.448242
62217	5005.950185	4427.813965	13.485352
62262.44922	4997.923334	4410.787598	13.45752
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62410.84375	4989.021484	4404.318359	13.440918
62474.96875	5003.272461	4413.659688	13.419434
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62605.875	5006.64248	4490.325684	13.463613
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62799.125	5000.271973	4483.00341B	13.472168
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63250.19141	5003.225586	4431.401855	13.401855
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63378.03125	5006.826172	4444.335937	13.452148
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63507.22047	5006.244829	4434.083964	13.459473
63572.73047	4998.007324	4453.615723	13.461172
63638.46484	5004.893855	4492.791504	13.478027
63702.54688	4998.387207	4473.353027	13.428711
63765.80469	5006.458008	4441.057617	13.440918
63831.25	4998.998094	4453.321289	13.447266
63887.52344	5005.92627	4489.790039	13.460449
63950.75391	4999.568336	4456.525391	13.463379
64025.10838	5001.90332	4432.421875	13.462402
64089.46875	4998.322754	4443.218262	13.43457
64154.10547	5005.851074	4444.939941	13.441895
64217.87691	4997.058594	4437.242187	13.48291
64281.89531	5006.163088	4453.554687	13.397949
64345.77344	4997.574707	4485.551758	13.444824
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64981.46484	4996.015137	4458.577637	13.437986
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65183.96094	5008.288086	4446.128418	13.444238
65246.54688	4998.111328	4438.685059	13.433594
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66213.79688	5004.90825	4452.231445	13.480469
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67891.82031	5008.547852	4470.05957	13.450684
67958.27344	4992.362793	4488.788621	13.452637
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69302.4375	4987.07373	4429.782207	13.4375
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69845.47856	5000.71582	4471.205586	13.446242
69906.06594	4985.055884	4474.361816	13.470703
69965.99219	4985.208961	4477.871582	13.450684
70026.59375	4988.882598	4454.915527	13.427734
70083.29688	4989.28248	4492.585837	13.43457
70144.8125	4981.501953	4498.922363	13.425293
70200.92188	4988.068895	4491.128853	13.453813
70262.67188	4988.165039	4460.173828	13.45166
70319.19531	4992.294434	4482.095703	13.441895
70380.57813	4987.441885	4438.114748	13.41748
70438.50781	4988.133301	4483.498512	13.492676
70498.39063	4988.149414	4433.688477	13.42041
70559.675	4989.64209	4448.151367	13.428711
70621.0625	4991.946289	4454.751465	13.451172
70682.33594	4980.855957	4452.577148	13.438035
70738.48438	4986.717773	4427.591309	13.477539
70799.19531	4996.994629	4404.428711	13.455586
70859.88281	4996.385742	4439.007324	13.458008
70922.35158	4999.451172	4450.009277	13.413574
70982.90825	5007.912109	4456.371582	13.438477
71063.75781	5022.429199	4478.104004	13.450195
71121.67969	5001.104004	4450	13.444824
71183.15625	5020.324707	4464.028809	13.462402
71241.13281	5019.265825	4440.789082	13.463867
71296.38281	5000.217773	4461.80857	13.444336
71352.20313	5023.777344	4487.172363	13.442871
71409.70313	4993.443848	4476.518066	13.473633
71473.75781	5003.687988	4499.506838	13.432817
71538.80156	4985.381113	4458.062888	13.470215
71601.84844	5001.115723	4485.170888	13.442871
71666.82031	5000.512207	4485.724809	13.432617
71731.87969	5004.987793	4448.540527	13.460449
71797.54688	4998.653809	4466.984375	13.469727
71862.53281	5007.569336	4449.678711	13.468262

71928.0825	4998.894043	4448.620996	13.46582
71983.22858	4998.254883	4463.931641	13.411621
72058.95313	4998.125977	4446.312012	13.473145
72123.84375	5002.907715	4463.256636	13.446289
72188.49219	4995.928223	4461.418892	13.45156
72252.08584	5007.393068	4466.812988	13.460195
72318.28125	4996.750488	4468.193848	13.436523
72382.6875	5004.568358	4439.111328	13.422852
72447.24219	4992.98877	4444.428711	13.472858
72511.09375	5001.42041	4463.326172	13.475586
72574.84375	4995.571289	4439.04248	13.46875
72631.8125	5021.287578	4449.571777	13.473145
72690.11719	5001.922852	4462.040527	13.412598
72754.17188	4995.684551	4436.361582	13.443848
72818.50761	5005.568359	4466.750488	13.473145
72882.61719	4995.638872	4436.001853	13.423828
72948.48438	5020.341309	4444.359375	13.428223
73000.85158	4988.810352	4418.206543	13.448707
73061.16406	5020.275381	4429.867989	13.448777
73126.70313	5003.90818	4428.681896	13.495605
73184.86719	5019.743652	4413.310059	13.415527
73243.10156	5018.490234	4433.501465	13.468282
73301.44531	5001.121582	4417.190918	13.448242
73369.85156	6020.771873	4447.658203	13.467285
73417.875	5018.527344	4447.241211	13.434082
73479.11719	5017.458984	4428.864551	13.442383
73538.89844	5017.877441	4404.877793	13.429198
73697.09375	6016.430664	4420.909668	13.487305
73656.34375	4997.972656	4454.891408	13.460937
73712.80469	5018.838379	4457.546875	13.562012
73774.21875	5018.774414	4457.845508	13.429887
73833.73438	5014.761953	4474.311035	13.483379
73893.00781	5014.381348	4451.063984	13.463887
73953.89063	5012.819338	4469.530273	13.394043
74013.89063	5011.885547	4421.210449	13.45156
74070.84375	5011.242676	4444.016113	13.441895
74131.5	5013.895508	4414.691895	13.535845
74187.32813	5013.541016	4452.547363	13.455078
74248.75	4984.030762	4470.031738	13.446777
74312.57031	4976.134277	4431.297852	13.458473
74375.29906	4991.976662	4381.581055	13.443369
74440.96094	5000.808398	4406.443358	13.441895
74505.10156	5001.584961	4409.449219	13.42041
74569.71094	5001.410645	4465.942871	13.431152
74632.89219	5004.552734	4404.350096	13.413574
74696.77344	5004.463125	4424.374023	13.442871
74761.69531	5002.283691	4438.038574	13.411621
74828.59375	5000.152832	4438.122559	13.45156
74892.05469	4992.932146	4459.670886	13.441895
74956.84844	5004.769277	4447.664062	13.444824
75026.47656	4994.966309	4436.973833	13.447754
75083.40625	4995.791992	4443.269531	13.445312

75145.8125	4995.537109	4408.178711	13.452148
75210.42869	5006.253418	4460.848633	13.411621
75278.64844	5008.304199	4432.839844	13.447754
75338.26583	4983.875293	4437.584473	13.4375
75396.8125	4979.178223	4474.015137	13.422363
75455.96219	4979.135254	4436.899414	13.429199
75512.75	4981.245117	4410.749512	13.45762
75572.51583	4982.258789	4366.519043	13.45166
75633.87188	4982.379883	4427.063965	13.464844
75695.70513	4985.083008	4476.861133	13.462891
75752.30469	4988.28709	4436.740234	13.444824
75815.47658	4990.781738	4453.149902	13.437012
75871.03125	4990.482891	4440.625	13.450195
75933.26125	4984.890625	4400.162169	13.432129
75999.33594	4988.01709	4480.744141	13.421875
76060.57613	4988.300293	4447.172852	13.439941
76106.80158	4993.154785	4447.840332	13.455586
76162.88281	4992.321289	4437.632812	13.428223
76223.83594	4995.988281	4455.860845	13.443848
76279.44531	5000.522461	4460.293887	13.431152
76340.8875	5001.722168	4410.595703	13.42527
76402.08594	4980.78541	4413.872852	13.46291
76462.32031	4988.178758	4448.589336	13.439941
76518.98875	4983.979004	4449.206008	13.435059
76576.02344	4988.181841	4468.98875	13.453613
76632.53808	4992.593262	4482.042969	13.445801
76689.5625	4991.776367	4470.954102	13.436035
76751.87188	4994.177246	4433.219238	13.473145
76812.89376	4991.774414	4461.048828	13.427734
76872.80938	4989.305684	4431.262695	13.445312
76934.13281	4993.623047	4434.973145	13.446777
76995.57813	4995.347168	4478.816698	13.428758
77051.5625	4995.917069	4460.743652	13.443359
77112.88281	4996.21582	4451.14209	13.443848
77174.03125	4998.486816	4434.409688	13.460937
77234.35156	5001.384277	4478.246582	13.40625
77290.35156	5007.455078	4433.508301	13.416504
77370.90625	5017.565916	4416.191895	13.457031
77435.98219	5006.305176	4460.442383	13.453613
77498.28125	5002.973633	4422.921387	13.457031
77557.36719	5020.830586	4482.841797	13.458496
77627.71875	5001.881816	4479.899219	13.473633
77682.32813	5005.588477	4462.052734	13.469727
77758.42188	5000.958008	4442.136184	13.428223
77820.74219	5007.491898	4494.758789	13.432617
77885.11719	4998.563866	4468.779287	13.477539
77948.90625	5004.486328	4431.690918	13.477051
78013.79688	4995.015625	4460.824512	13.437988
78070.88406	5021.748094	4448.862402	13.458055
78135.0625	5001.73877	4433.049318	13.451172
78203.5825	4999.143593	4432.255859	13.464844
78265.41406	5022.083496	4451.716797	13.460937

78323.46675	4991.096621	4418.095215	13.488281
78387.58594	5000.15918	4447.209961	13.489258
78443.61719	5020.509766	4446.604492	13.473145
78504.13281	5018.185059	4470.21875	13.49707
78582.15825	5020.363281	4470.269531	13.495605
78616.63281	5020.82959	4453.500977	13.440443
78675.71875	5018.588379	4474.425293	13.439965
78733.00781	6018.217285	4451.551758	13.46166
78796.79438	4998.529785	4491.773926	13.437988
78853.25781	5019.763184	4454.408891	13.429199
78914.02944	5015.520896	4456.054199	13.463379
78970.53125	5016.354492	4431.892383	13.439594
79031.35938	5014.701172	4443.171387	13.443848
79091.59375	5001.34375	4417.327148	13.453125
79148.47658	4999.068406	4443.581797	13.442671
79209.53906	5004.95459	4420.805469	13.440443
79270.05625	5005.480957	4454.623047	13.463379
79328.375	5008.557129	4418.102539	13.469238
79387.58594	5004.834981	4456.790039	13.455586
79449.30489	5005.938985	4450.733867	13.47998
79508.64069	5006.667383	4449.081543	13.416016
79565.13281	5008.457031	4439.635742	13.410156
79621.72656	5004.482676	4443.298828	13.481934
79677.34375	5007.473145	4477.151367	13.444336
79738.02344	5011.191895	4473.820312	13.486282
79794.95313	5006.361328	4434.212891	13.486328
79855.8125	5008.803516	4428.306082	13.472188
79917.71094	5007.374023	4427.728074	13.442871
79973.51563	5010.88043	4427.237793	13.455078
80034.65625	5001.820117	4451.378418	13.458543
80091.11719	5006.888945	4415.894043	13.438965
80152.65625	5002.808445	4428.67041	13.417968
80213.78906	5007.477538	4427.892363	13.460449
80269.95313	5007.21582	4452.662129	13.431641
80331.25781	5008.480957	4436.272949	13.449707
80387.825	5006.611816	4451.520996	13.417969
80443.67969	5003.457031	4444.36084	13.447754
80504.02344	4995.145508	4464.525879	13.413574
80565.5	4995.744141	4469.58543	13.444336
80626.4375	4996.583008	4462.782227	13.458055
80682.45313	4999.85486	4437.87334	13.436035
80743.23438	5002.916892	4431.108834	13.480469
80803.83594	4978.323242	4441.66748	13.421875
80860.92188	4980.388872	4454.875	13.483887
80925.78125	4991.73877	4453.720215	13.433105
80980.96094	4998.282715	4457.223145	13.412598
81056.71875	5006.682129	4425.136719	13.444824
81122.13281	4999.047852	4452.806152	13.423828
81187.05489	5008.897265	4457.428711	13.463379
81251.09375	5001.918434	4425.317871	13.481934
81316.64844	5002.679687	4450.029785	13.456055
81380.34375	4993.911133	4429.109375	13.466309

81436.1875	4994.651367	4428.392578	13.45459
81506.35156	5003.869629	4436.933105	13.544922
81566.57813	4980.251485	4429.061055	13.44043
81628.47656	4980.962891	4435.773926	13.449219
81685.45313	4981.499023	4441.206496	13.42041
81746.9375	5002.521484	4427.282715	13.566895
81811.3125	4983.839844	4438.462891	13.522461
81873.1875	4997.950684	4488.057129	13.570312
81839.15825	5004.786621	4452.689453	13.37793
81996.00781	4978.871582	4435.689941	13.434082
82054.81719	4996.964355	4401.852344	13.438865
82123.96094	4997.610352	4444.129395	13.431641
82180.25781	4979.169434	4440.75	13.442871
82248.1875	4997.388184	4440.182129	13.455078
82306.53125	4979.430178	4434.108445	13.47168
82364.84375	4980.902344	4425.887988	13.464844
82423.78125	4980.387207	4460.028909	13.428711
82480.89844	4987.598688	4439.758788	13.498797
82536.78125	4984.850684	4416.424005	13.483887
82597.9375	4983.516802	4420.057817	13.46875
82654.85938	4978.515137	4415.929687	13.469298
82711.07031	4979.06543	4432.795896	13.46582
82769.92168	4981.859888	4438.854004	13.442383
82831.42188	4988.217773	4403.599809	13.432817
82892.57813	4985.79248	4433.970215	13.448707
82953.88281	4988.774414	4436.114258	13.472168
83011.30469	4988.079358	4423.818848	13.477538
83068.5625	4987.79834	4438.231934	13.431152
83126.1875	4989.891899	4441.874316	13.473145
83181.38719	4988.73291	4482.035845	13.462891
83237.90625	4991.709981	4455.884082	13.4375
83294.63281	4986.069336	4449.42041	13.441895
83351.57031	4987.817871	4451.720703	13.46582
83411.57031	4990.939841	4488.184082	13.425283
83467.4375	4988.927734	4433.817383	13.422652
83523.53125	4984.650381	4448.960937	13.466797
83580.36156	4980.685059	4476.730469	13.439463
83636.86825	4982.628465	4455.540039	13.439453
83696.99219	4989.628395	4466.434082	13.44043
83752.88719	4989.512207	4442.595215	13.427734
83806.36281	4988.498094	4467.798875	13.44043
83864.66406	4981.768113	4484.666162	13.451172
83920.95313	4992.553711	4470.268555	13.425781
83977.81719	4990.676223	4434.463867	13.446289
84038.01563	4989.807617	4456.330914	13.458496
84094.60156	4982.814941	4470.046367	13.500488
84150.5	4982.404785	4440.293945	13.424916
84206.46094	4993.788574	4462.09375	13.513672
84268.82969	5001.061523	4452.86377	13.516602
84324.96094	5001.843555	4431.771973	13.413574
84380.92969	4982.802539	4428.55127	13.448242
84442.5	4984.289531	4438.015625	13.446269

84503.4375	4983.841895	4449.841309	13.401855
84565.21875	4985.641602	4444.165527	13.474121
84628.53125	4981.883901	4449.395996	13.478074
84687.21875	4989.188477	4432.814746	13.418945
84743.08594	4984.958496	4449.120117	13.430178
84805.49219	4986.932129	4425.090332	13.460937
84866.92188	4988.222188	4484.035158	13.427734
84927.8875	4990.002441	4475.321289	13.458543
84984.32813	4991.188035	4438.520996	13.449219
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85101.11719	4992.15825	4478.518555	13.445312
85162.40625	4994.001465	4491.419622	13.507812
85218.10156	4991.990234	4468.819336	13.452637
85277.98438	4991.575684	4469.120117	13.416016
85334.38281	4995.648828	4464.461934	13.452148
85390.40625	4994.185059	4448.896094	13.487285
85451.71875	4992.28541	4445.853516	13.480937
85507.07031	4991.38623	4453.319824	13.407715
85568.04688	4997.803711	4414.424805	13.441895
85625.07813	4998.024414	4442.911621	13.496094
85680.57031	4992.828613	4452.718797	13.420638
85742.71875	4988.744629	4426.283691	13.48875
85802.70313	4992.342773	4490.577148	13.487285
85863.42188	4991.847168	4502.783681	13.472188
85921.9.92188	4996.841797	4453.051758	13.437012
85975.97866	4998.96582	4457.438965	13.47998
86031.78125	4994.753418	4446.707031	13.472655
86092.38719	4999.864746	4449.006348	13.447754
86148.64844	5001.538574	4425.443848	13.446777
86210.22666	5002.600098	4444.344727	13.461426
86268.89844	5007.786621	4451.182129	13.442383
86327.86156	4997.963379	4479.901367	13.430176
86384.07031	4993.838867	4480.341309	13.445312
86443.72858	4989.194336	4452.255371	13.462891
86504.40625	4989.558082	4415.29834	13.421387
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86621.65625	4994.363281	4456.839844	13.435547
86681.5625	4994.918848	4447.541016	13.461426
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86799.95313	4993.912588	4465.886699	13.475098
86861.32813	4995.036621	4467.478516	13.484863
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86977.22666	4999.277344	4472.798387	13.452148
87038.11719	4994.243164	4475.711914	13.459984
87099.03125	4998.118699	4461.852051	13.439453
87155.08375	4995.86377	4486.325884	13.485352
87210.82031	4994.632812	4484.818359	13.44873
87267.30469	5001.841797	4429.487793	13.443846
87328.39083	4997.891895	4431.795888	13.42041
87384.53806	4999.908691	4438.039551	13.463867
87444.84375	5005.136719	4435.369375	13.42827
87500.92188	5005.303223	4418.063008	13.459473

87558.42188	5004.932129	4458.84062	13.426758
87644.61719	5017.708984	4439.396484	13.426758
87702.70313	5028.334961	4397.138672	13.438523
87752.29688	4996.334961	4409.853516	13.458008
87827.46875	5005.731445	4423.183105	13.455586
87892.9375	4999.775391	4394.884746	13.439453
87958.35938	5002.258789	4443.413574	13.44873
88022.17188	4997.221191	4467.802248	13.453613
88087.0625	5003.958496	4488.556641	13.458496
88151.96094	4983.115234	4453.527832	13.507324
88216.29688	5007.492187	4461.161133	13.462681
88279.86719	4999.283691	4447.125488	13.547852
88344.27344	5002.650879	4481.875	13.568408
88409.0625	4997.208981	4453.351074	13.523826
88474.54688	5002.494629	4473.349121	13.51709
88538.63281	4999.922363	4444.046387	13.423828
88603.52344	5003.72988	4438.945312	13.478027
88664.85838	5022.940918	4465.888477	13.466309
88729.46875	4994.741211	4437.727851	13.459961
88791.0625	4992.560547	4427.875	13.480469
88849.63281	4997.267578	4424.607422	13.447754
88905.9375	5017.537598	4438.693359	13.439941
88967.22656	5019.512207	4455.89209	13.443848
89026	5019.987793	4468.553711	13.45166
89084.29688	5017.542069	4479.446289	13.411621
89144.39844	5021.445312	4470.039551	13.572266
89207.85825	5001.520785	4460.39502	13.438105
89268.00781	5020.531738	4454.522461	13.596688
89327.85825	5016.710837	4457.564453	13.415527
89385.09375	5020.47998	4452.783203	13.481445
89444.96094	5018.888648	4483.445801	13.445312
89503.99219	5018.853027	4483.858867	13.450684
89562.99219	5008.857715	4496.040527	13.581543
89621	5017.336914	4475.352051	13.453125
89678.4375	5016.444336	4441.796876	13.558105
89738.96875	5015.150879	4435.554687	13.513184
89795.3125	5015.400391	4471.169922	13.465332
89855.90625	5011.482422	4415.27832	13.486328
89916.92188	5016.061523	4447.778009	13.459961
89976.71875	5013.328613	4468.008277	13.429687
90038.03125	5014.15625	4444.25293	13.490723
90094.07813	5013.382324	4459.095215	13.458055
90150.9375	5009.161621	4451.220703	13.451172
90211.8125	5010.793457	4438.090332	13.403809
90273.28125	5010.779287	4482.771973	13.447268
90335.25781	4981.442871	4471.893066	13.499512
90415.20313	4999.059387	4497.958496	13.41748
90476.70313	4994.873047	4465.369141	13.574707
90543.34375	5004.864258	4488.256836	13.851367
90607.1875	4999.54834	4468.51123	13.456543
90670.67969	5008.152832	4446.088359	13.434082
90735.81719	4994.094727	4473.893068	13.487305

90806.25781	5002.549316	4478.572754	13.470703
90882.38281	5002.902832	4458.000488	13.431641
90922.89844	4979.784688	4445.757324	13.43457
90988.89844	4998.86377	4438.411133	13.470703
91048.88281	4977.874023	4437.386264	13.425781
91106.85158	4978.29541	4443.016113	13.512207
91170.11719	4986.598633	4438.857422	13.462891
91229.89083	4980.916016	4451.777632	13.412598
91291.07031	4982.768574	4448.886719	13.543945
91349.06286	4981.937988	4463.566406	13.446289
91408.80158	5001.422363	4438.523437	13.469727
91465.96438	5001.745605	4398.434062	13.389648
91522.75781	4984.827441	4448.481445	13.453125
91578.74219	4984.231445	4429.97998	13.461914
91635.34375	4982.447754	4462.717285	13.466797
91692.85156	4985.046875	4471.197266	13.476074
91748.64844	4987.482422	4477.821582	13.428711
91805.03125	4988.042969	4441.807129	13.42334
91861.21875	4981.970703	4485.39209	13.418457
91918.23438	4982.581543	4467.806152	13.412598
91975.375	4982.368164	4468.597656	13.466309
92031.0825	4985.230857	4470.812305	13.464863
92087.8875	4988.180176	4478.381543	13.448289
92144.04688	4987.581035	4461.097658	13.468262
92201.60156	4988.189941	4450.036821	13.449219
92258.3125	4991.874023	4477.552734	13.468309
92318.07813	4993.387685	4464.140625	13.447266
92376.28906	4991.245605	4421.214355	13.439941
92437.61719	4990.558105	4428.255371	13.425293
92494.53125	4995.189941	4441.866328	13.44043
92550.33594	4995.493164	4448.586426	13.483398
92611.70313	5000.319336	4484.385723	13.439453
92668.07813	4998.880176	4495.844531	13.467285
92724.00781	4998.537598	4458.062968	13.455566
92780.17969	5006.871582	4477.371582	13.462148
92841.92188	5007.814453	4466.754395	13.453613
92888.54688	5017.716797	4456.706566	13.468008
92975.24219	5016.256348	4448.294434	13.481914
93033.40825	5028.700884	4447.42334	13.489727
93091.25781	4990.109863	4501.833008	13.468055
93155.82813	5011.848902	4461.698242	13.465812
93221.32031	4993.53125	4457.242676	13.434082
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93352.21875	4997.385742	4442.779287	13.44873
93417.07813	5001.508768	4447.043457	13.434082
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93545.82813	5005.058584	4460.226951	13.463887
93609.57813	5000.75293	4462.443359	13.469727
93674.8125	5004.495805	4433.035645	13.44043
93740.78125	4995.182129	4430.743652	13.433105
93806.79588	5006.461426	4439.101582	13.43457
93871.38281	4997.488281	4443.498535	13.455078

93936.88281	5004.497659	4441.643066	13.460449
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94133.21875	4997.039551	4449.535845	13.44043
94197.57813	5002.874121	4483.004883	13.450195
94261.10156	4996.345215	4435.160845	13.435059
94326.77344	5002.351074	4453.487793	13.472168
94389.77344	4996.933594	4491.34082	13.448242
94454.14844	5007.520998	4456.724121	13.431641
94519.21875	5004.165762	4410.193359	13.44043
94583.6875	4981.883574	4425.454102	13.429199
94647.46875	4980.938865	4425.928199	13.45166
94712.02344	5007.124512	4443.566895	13.473145
94775.96094	5000.802539	4453.705078	13.457031
94842.15825	5002.088428	4433.85498	13.446777
94907.38281	4985.249023	4462.381328	13.465797
94971.67968	5000.744141	4445.889648	13.413086
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95166.10156	5001.673535	4439.656152	13.430176
95229.91406	5004.04248	4455.12793	13.444336
95294.82813	4985.114746	4439.455078	13.479492
95358.59375	5002.654687	4468.938477	13.438985
95422.45313	4996.321777	4435.949707	13.429687
95485.14844	5003.365234	4432.941406	13.472168
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95612.46875	5005.669992	4427.22188	13.437012
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95741.98438	5003.231934	4450.350098	13.455566
95806.57813	4994.405273	4468.700195	13.455566
95870.67188	4998.833008	4461.263572	13.460449
95935	5002.229004	4472.949219	13.463379
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96192.14844	4997.776387	4462.683301	13.446777
96258.94531	5007.249512	4451.850586	13.453125
96323.89844	4996.516137	4447.962891	13.4375
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96452.30468	5000.802248	4447.231934	13.462881
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96775.71094	5004.816885	4459.106934	13.47188
96840.89844	4984.350098	4463.115294	13.464844
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96970.0825	4998.126485	4458.212891	13.488281
97033.5	5005.494629	4439.280762	13.449707
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97160.4375	4997.074707	4459.092285	13.461426
97226.00781	5000.186992	4439.008301	13.448242

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97488.4375	4998.983398	4481.689453	13.461914
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98644.68281	4996.282715	4442.055884	13.426223
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108728.6016	5004.341309	4435.223145	13.447288
108793.5	4998.78416	4432.298075	13.474121
108858.875	4997.375488	4411.899802	13.446289
108924.3516	4998.786133	4421.186035	13.455566
108988.4375	4999.84502	4436.568336	13.445801
109053.2872	5001.157227	4466.892578	13.482891
109118.5156	4999.841113	4454.57866	13.430176
109182.6172	4992.422852	4475.88377	13.467285
109247.2186	5003.751485	4483.672363	13.447288
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109377.0234	5003.192383	4463.624023	13.466309
109441.3516	4997.013184	4455.102639	13.429687
109505.1797	5006.641602	4412.859863	13.479492
109570.5078	4997.299605	4433.186035	13.468543
109635.8281	5000.858881	4452.254883	13.473633
109700.1563	4997.458008	4439.568359	13.458994
109766.4063	5006.867676	4455.026367	13.450684
109832.0469	5002.782227	4453.209613	13.480449
109895.1328	5001.255371	4480.138672	13.458008
109959.4453	4997.105957	4481.082285	13.416016
110024.9063	5005.182129	4481.116164	13.453126
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110192.4766	5020.28416	4486.610352	13.416892
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110395.8672	4994.68457	4427.100588	13.453125

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110579.3359	5003.43457	4439.246094	13.481445
110648.6328	4995.581543	4433.884258	13.436035
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111235.2286	5001.885254	4455.175781	13.439453
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111367.2031	5002.333496	4478.755858	13.430864
111432.8094	4998.128465	4470.253908	13.45459
111497.0234	5000.449219	4454.771484	13.470215
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111626.5234	5003.32688	4444.777632	13.464844
111691.1172	5000.614258	4439.666841	13.455078
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111885.8281	5003.96682	4439.415527	13.447266
111950.7666	4999.307617	4439.111328	13.461914
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112142.8531	5005.21875	4449.055864	13.418016
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112531.8125	5003.378908	4463.788086	13.477051
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112660.2344	5001.898926	4475.282207	13.452148
112725.1484	4995.128465	4478.154785	13.437012
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112853.8408	4998.211914	4478.848833	13.458496
112919.2734	5001.115723	4441.370117	13.431152
112983.3518	4994.261719	4470.164062	13.472658
113047.4219	5000.843262	4504.680664	13.449707
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113624.9219	4994.604396	4476.536133	13.465332
113690.3672	5010.106934	4467.433594	13.458984
113755.5781	4998.750486	4452.104492	13.454102

113821.5547	4998.705588	4491.506836	13.469727
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113950.5234	5004.682109	4442.727639	13.433584
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114209.6938	5007.40918	4465.87384	13.474609
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114471.8719	5005.075781	4477.479004	13.425293
114536.0234	4998.100686	4448.680684	13.435547
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116514.8906	5022.338379	4436.104004	13.472658
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116878.2031	5020.019043	4456.382324	13.442363
116938.8875	5019.293945	4465.027832	13.458964
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117297.8125	4892.345703	4478.822266	13.430176
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128128.4219	4993.603027	4453.137695	13.51123
128193.6659	4998.850566	4487.580078	13.662508
128254.7031	5021.82666	4443.449219	13.458961
128319.8438	4999.388484	4468.158203	13.640625
128380.2969	5019.385254	4456.546387	13.455078
128438.7734	5020.307129	4465.904785	13.467285
128498.0781	5023.420898	4437.553223	13.475586
128554.8594	5021.273926	4445.208496	13.475098
128613.8281	5018.540527	4452.794922	13.462402
128673.1094	5021.766113	4432.238281	13.447764
128739.3984	5017.921387	4445.028809	13.478027
128795.9453	5023.368852	4447.255859	13.531736
128845.7031	4998.681133	4434.268066	13.62793
128913.8438	5001.712891	4409.051758	13.483398
128970.6563	5020.135742	4431.722188	13.467773
129032.8125	5019.139848	4435.202148	13.47998
129093.8359	5017.929199	4429.678223	13.58252
129154.7969	5017.061523	4457.953513	13.506636
129211.8031	5016.088355	4455.777832	13.567383
129281.2266	5004.784868	4436.786621	13.459473
129341.4766	5019.816895	4440.875	13.475586
129404.4609	5003.643086	4400.421875	13.430684
129459.7578	5020.054687	4421.020508	13.439463
129521.7813	5019.719238	4431.702837	13.559711
129580.1797	5017.928713	4453.124512	13.550781
129640.1875	5019.280742	4426.851582	13.495605
129696.2656	5017.526809	4421.521484	13.524414
129752.2819	5016.392324	4444.02832	13.558594
129813.1328	5016.597656	4404.566406	13.501465

129874.2266	5019.126906	4432.126465	13.551758
129829.75	5018.376853	4448.696289	13.508301
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130043.3203	5015.887895	4468.301758	13.464355
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130283.125	5018.233398	4475.518043	13.436035
130342.7813	5016.462402	4445.957031	13.421387
130403.5703	5018.777832	4436.486328	13.477539
130465.1797	5015.208984	4456.053223	13.46582
130525.1406	5019.365723	4423.373535	13.464844
130588.4766	5017.788086	4439.984375	13.487285
130647.2422	5018.134788	4419.46582	13.538574
130704.7578	5017.588914	4389.977051	13.675781
130760.5156	5019.671876	4426.940918	13.556841
130820.9766	5017.362305	4409.981934	13.520898
130880.3516	4994.648437	4443.20459	13.542969
130938.9063	5017.225588	4452.355867	13.660845
130992.9219	5018.158203	4488.010254	13.597856
131049.9768	5011.102539	4467.816862	13.588355
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131223.7658	5014.714844	4418.276855	13.48584
131285.5156	6012.334473	4447.326172	13.461914
131341.5825	5019.495605	4410.61377	13.508668
131398	5017.657227	4491.877441	13.615723
131454.3281	5020.95752	4415.48291	13.553223
131512.6863	6016.829102	4422.861328	13.642969
131570.6719	5018.349121	4384.892578	13.579102
131632.7813	5018.829395	4428.988258	13.604004
131692.6406	5018.822268	4432.114258	13.664062
131763.0313	5020.434062	4429.123535	13.657227
131822	4999.830371	4451.035156	13.442871
131882.7856	5021.707031	4419.463867	13.69043
131947.375	5002.968238	4440.057129	13.64502
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132068.0156	5021.452148	4413.255371	13.623535
132127.2344	5018.984355	4414.825684	13.58375
132188.75	5018.722168	4404.722658	13.601562
132247.8125	5012.508789	4429.147461	13.600098
132308.6563	5016.785825	4478.878906	13.648497
132370.25	5014.435059	4445.030273	13.50293
132431.625	5020.212891	4458.961914	13.650879
132492.4588	5018.471191	4429.644922	13.612305
132549.2813	5018.529297	4434.975586	13.582091
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132670.1719	5018.479492	4431.760742	13.617187
132726.5	5016.499512	4445.51416	13.645508
132783.3906	5014.936035	4452.195801	13.496094
132842.5313	5004.037109	4442.494141	13.52062
132900.9375	5016.974809	4468.225098	13.608887

132962.9219	5000.185312	4416.583496	13.685547
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133076.75	5000.334473	4437.211914	13.551758
133134.4375	5020.491211	4422.058152	13.473633
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133248.4375	5018.913086	4412.177734	13.58375
133308.9689	5019.660156	4418.43467	13.624612
133364.1719	4996.106957	4482.563965	13.495117
133424.8438	5021.788555	4484.990723	13.604492
133489.0469	5004.090633	4418.781736	13.650391
133545.0781	5018.458055	4433.057129	13.608445
133606.5626	5016.899414	4449.450195	13.616899
133666.3436	5016.891602	4441.375	13.521973
133727.0313	5018.918892	4432.82373	13.501485
133783.8594	5016.080568	4436.900879	13.595703
133842.1563	5000.196289	4438.717285	13.591309
133908.4375	5017.978074	4442.496084	13.561035
133965.	5018.422363	4454.527832	13.583884
134021.4844	5019.240723	4422.5	13.566406
134078.8406	5015.414062	4438.290639	13.491699
134134.9063	5016.755859	4412.356446	13.55957
134196.1875	5018.255371	4468.516802	13.628806
134253.5781	5020.144531	4439.705568	13.536133
134309.3125	5020.4375	4455.424805	13.554199
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134429.5469	5005.901855	4441.883789	13.53418
134485.6563	5008.489748	4427.945312	13.606445
134543.2856	5018.93457	4401.845703	13.567871
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134789.8125	5014.152832	4441.814258	13.509277
134846.5156	5015.308105	4467.089355	13.617876
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135318	5020.449809	4448.507324	13.523437
135373.6094	5000.056152	4477.675781	13.437012
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135665.625	5023.562989	4482.378418	13.443848
135724.7856	5003.338867	4453.134766	13.472666
135789.8906	4990.931641	4465.525391	13.458055
135854.75	5000.331543	4455.474609	13.645506
135910.875	5020.910156	4479.328613	13.547852
135968.125	5021.351562	4470.169434	13.547363

136027.9375	5021.248047	4414.880371	13.530621
136098.2031	4998.560059	4433.376953	13.509277
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136407.3281	4995.869238	4438.276387	13.569824
136471.3906	5000.98707	4454.389141	13.501953
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136982.9063	5022.875293	4438.128906	13.530762
137038.1719	5021.41748	4440.242676	13.561523
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137168.5156	5000.330566	4446.546387	13.58082
137227.8875	5020.933105	4449.219727	13.574707
137285.9531	4998.703813	4438.849414	13.67041
137347.0313	5020.826953	4451.460937	13.586814
137405.5469	5000.28416	4436.458496	13.664551
137471.5313	5004.80791	4451.541992	13.687012
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137585.6719	5002.804198	4460.317383	13.570312
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137702.0313	5008.938523	4463.845703	13.495117
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138192.6875	5022.932617	4427.106934	13.644531
138251.2031	5002.083008	4458.947754	13.710937
138308.2344	5001.654297	4440.211426	13.709473
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138553.7344	5022.153809	4441.818945	13.656738
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139159.5625	5021.728516	4447.166016	13.615234

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140920.7658	5015.104492	4446.029297	13.564453
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141387.2658	5017.611816	4444.26709	13.651367
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142831.3594	5019.494829	4451.137695	13.834277
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143251.3281	5018.179687	4423.827637	13.854785
143308.5469	5015.563477	4438.286158	13.827441
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143421.2656	5016.874023	4461.401056	13.54248
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143595.6875	5016.237305	4424.723145	13.665504
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146972.8125	5003.778367	4458.896973	13.699219
147038.2656	4999.131348	4443.888672	13.886035
147101.25	4999.08543	4480.827148	13.899707
147165.875	4993.802248	4490.65625	13.678223
147231.875	5001.437968	4500.852538	13.701172
147297.3281	4991.800398	4495.330566	13.689453
147361.5719	5003.852051	4453.744629	13.706984
147423.7813	5022.245117	4446.076172	13.70752
147482.7168	5017.915527	4424.211914	13.684082
147540.4844	5021.238281	4438.220763	13.67627
147602.7813	5018.729492	4488.234375	13.666504
147660.8281	5022.65625	4475.930684	13.666982
147728.3125	5008.493652	4460.750468	13.703125
147784.4219	5020.378418	4468.904785	13.727539
147843.2188	5021.472168	4484.116899	13.68457
147901.7188	4994.900391	4474.003418	13.660664
147960.2656	4998.764883	4505.022461	13.649902
148022.4531	4998.79834	4480.94873	13.683105
148086.5938	4991.047363	4475.520508	13.654785
148143.6563	5000.001485	4454.018555	13.622207
148199.5781	5000.667969	4409.464844	13.674316
148259.4376	5020.419822	4463.362793	13.704559
148328.8125	4998.109863	4448.27002	13.687012
148392.625	5008.416504	4438.212402	13.666992
148454.3594	5021.677246	4458.076172	13.708496
148512.8125	5004.024414	4441.190918	13.645996
148573.1719	5021.502441	4423.883301	13.653809
148637.25	5010.069624	4431.424805	13.663106

148701.4531	4998.810059	4424.913574	13.698777
148786.8584	4999.289082	4385.396996	13.706568
148823	5020.516602	4429.202637	13.65332
148889.8806	4997.62793	4418.927246	13.688945
148890.4063	5019.309082	4438.488281	13.688941
149008.0938	5005.51123	4449.775879	13.682129
149076.5825	5003.743164	4462.336426	13.694824
149138.7656	5021.998535	4456.455078	13.695312
149196.7188	4997.954102	4424.595215	13.677246
149252.5156	5021.479004	4414.950684	13.657715
149313.7858	4998.710449	4438.800781	13.621094
149374.8281	5021.243852	4504.084961	13.603518
149431.3584	5018.841602	4476.142578	13.67041
149480.5781	5020.885234	4477.47168	13.696312
149548.8125	5020.04834	4439.97168	13.625
149617.2031	4996.760043	4458.647852	13.643066
149675.8125	5018.990723	4438.791016	13.700195
149736.5781	5006.258838	4432.006859	13.711426
149794.8406	5021.597168	4484.322754	13.663574
149853.6781	5016.148879	4498.667283	13.687988
149909.9844	5019.267578	4478.828906	13.697501
149970.6094	5017.965882	4436.536133	13.693848
150028.8225	5018.843359	4453.858887	13.694062
150087.125	4998.229004	4443.197764	13.726562
150153.2813	5019.135742	4424.329102	13.693848
150209.7344	5017.591787	4437.110362	13.647949
150271	5019.400879	4480.373047	13.680684
150328.8719	5018.15332	4450.788551	13.655273
150388.4375	5019.928223	4431.003808	13.645896
150445.3125	5017.729492	4437.70459	13.621582
150507.1583	5018.858375	4434.23291	13.530782
150588.8261	5018.358863	4453.831543	13.581543
150627.8406	5019.188035	4449.782715	13.686035
150688.3281	5018.862793	4448.707031	13.583262
150744.2813	5017.555884	4448.756348	13.58543
150802.9219	5018.103027	4424.672383	13.648902
150880.125	5018.881836	4418.224121	13.651387
150917.4844	5012.877246	4428.274902	13.674805
150973.5313	5015.230469	4447.234883	13.543457
151029.0825	5015.108396	4447.05957	13.650391
151091.4063	4993.17627	4457.980469	13.688523
151148.2813	5001.449707	4437.862305	13.678711
151210.5625	5004.245605	4448.322754	13.70186
151270.2969	5009.500977	4446.430684	13.683594
151331.3584	5010.288574	4384.65332	13.70166
151388.75	5011.033203	4431.363281	13.70168
151448.8594	5014.462402	4443.491211	13.687988
151508.3594	5010.700195	4482.025391	13.702148
151588.8975	5018.185547	4478.21582	13.711426
151624.4844	5018.54248	4460.407715	13.685312
151688.1094	5015.895508	4438.983887	13.707031
151747.8875	4997.028809	4440.025391	13.676758

151804.3281	5020.032227	4463.845508	13.682617
151863.3906	5000.056152	4472.772949	13.68457
151922.5313	5019.007812	4432.51123	13.680156
151982.2656	4994.838379	4408.11377	13.686523
152038.9375	5019.167969	4452.533203	13.703125
152100.1406	5018.521973	4448.686036	13.664052
152161.2969	5018.248512	4442.713867	13.667998
152217.8125	5016.358375	4443.924318	13.679199
152278.9888	5017.466309	4441.692283	13.671387
152339.7813	5016.57859	4439.498094	13.702637
152395.2969	5019.238746	4461.023826	13.683594
152462.8594	4994.78125	4459.172852	13.686016
152523.8563	5014.075884	4422.159668	13.695312
162584.7969	5013.361818	4433.863379	13.680176
152640.5781	5019.963379	4470.952148	13.703125
152699.1875	5021.115284	4478.089844	13.689941
152759	5016.71582	4469.046875	13.67627
152819.8563	5020.551758	4438.28418	13.676758
152877.4888	5017.828102	4451.103027	13.691885
152935.8125	5016.281719	4413.728518	13.6875
152996.9375	5020.23877	4435.745117	13.638184
153058.9375	5003.42627	4458.528367	13.708984
153113.8084	5018.888281	4425.04541	13.661133
153171.8084	4997.058105	4438.445801	13.67627
153228.4888	5017.075884	4462.562012	13.649902
153284.3281	5015.946777	4484.92627	13.69873
153342.0825	5022.674805	4438.536133	13.680176
153400.7031	5020.751953	4443.185312	13.705078
153457.5469	5018.021973	4439.342285	13.658891
153525.5313	5004.943848	4448.074707	13.677734
153584.1406	5020.890625	4466.04541	13.677246
153640.5625	5016.478074	4458.285825	13.657227
153695.9844	5014.010742	4440.51416	13.65818
153757.1563	5015.795898	4485.365234	13.708496
153813.2656	5014.787598	4472.568338	13.671875
153873.2031	5017.964356	4431.388184	13.685547
153935.8406	5015.527344	4405.945312	13.678758
153994.8906	5016.890137	4423.970703	13.68457
154054.0469	5021.234375	4447.021484	13.710449
154112.2813	5014.549805	4424.649902	13.708884
154172.8594	5016.832812	4427.787588	13.686035
154229.8281	5017.081035	4435.810547	13.682129
154288.9844	5016.858834	4489.913574	13.69043
154344.8406	5021.251485	4437.041892	13.693369
154402.4844	5017.821582	4420.99707	13.685547
154459.0781	5015.385723	4438.555176	13.651855
154515.1084	5018.291018	4435.755859	13.708008
154570.8281	5019.864258	4410.481834	13.689941
154628.6719	5014.570312	4441.887207	13.644043
154682.8406	5012.755859	4453.573242	13.671367
154738.1875	5016.788821	4460.421387	13.638672
154798.9219	5011.87627	4458.32959	13.6875

154855.2344	5012.444336	4440.115234	13.700684
154912.6875	5011.074219	4449.522949	13.721191
154986.3125	5017.330078	4484.066895	13.685547
155029.7344	5016.092265	4412.965392	13.580547
155081.3438	5016.224121	4432.154297	13.688865
155147.5	5020.134768	4438.945312	13.708473
155218.5313	4995.021973	4446.223145	13.677734
155284.9844	4994.826953	4484.054687	13.676758
155341.7344	5016.039062	4423.460449	13.681621
155403.1719	5018.598888	4436.26123	13.674805
155463.2989	5021.680176	4414.699707	13.695801
155522.8125	5019.563477	4404.59082	13.682617
155582.4844	5018.504395	4427.748582	13.719238
155643.3906	6021.374023	4418.015625	13.723633
155702.6875	4887.429687	4467.602051	13.664551
155782.3281	6020.890137	4461.630371	13.661621
155828.2188	4998.19043	4441.943359	13.69043
155881.6406	5008.388437	4471.729492	13.662598
155947.1719	6014.089355	4462.431641	13.696289
156011.5	5004.974609	4401.120605	13.661621
156076.8719	4998.953125	4476.129883	13.628418
156134.1719	6022.803516	4444.269531	13.684082
156190.0625	5015.898926	4421.87041	13.684336
156250.2969	5017.773437	4457.985797	13.680176
156308.8806	5015.962402	4470.803223	13.696777
156378.6084	4998.117676	4488.162109	13.688945
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156499.8125	5022.998582	4450.785625	13.708006
156558.6719	5017.272481	4433.488746	13.704559
156615.8281	5015.543457	4453.907715	13.677734
156673.1719	5020.955078	4445.277832	13.705566
156732.9375	5017.338379	4451.234375	13.646973
156793.3906	5018.700195	4447.938841	13.700195
156854.3906	5019.486816	4451.186523	13.688035
156916.2969	4998.118852	4449.480234	13.675781
156972.6875	5018.59375	4475.226686	13.681641
157029.3438	5018.050293	4467.178223	13.638184
157080.825	5016.601074	4458.375488	13.663574
157147	5017.753418	4480.532715	13.671875
157204.4688	5017.433105	4454.191406	13.650391
157264.6719	5018.597598	4432.991699	13.707552
157333.7188	4994.253418	4431.819824	13.659118
157394.8584	5018.910156	4459.043945	13.696777
157455.25	5018.980459	4456.953613	13.530273
157615.9375	5014.445801	4488.114258	13.662698
157576.5781	5018.405273	4445.140137	13.695801
157633.0156	5021.124023	4432.262885	13.704102
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157749.2813	5005.903809	4444.208008	13.696777
157805.3906	5023.872852	4454.416018	13.545451
157861.5313	5015.545888	4462.178711	13.698504
157917.0469	5019.905332	4444.812305	13.676756

157978.4375	5019.330078	4461.189453	13.524902
158034.0825	5015.236328	4424.709961	13.604004
158089.4844	5015.90332	4442.025391	13.684082
158145.5781	5013.928188	4445.897461	13.638872
158208.4844	5017.489258	4454.168457	13.687012
158287.9844	5013.181641	4482.801758	13.649902
158324.25	5015.368872	4463.123047	13.688865
158381.2969	5013.399414	4481.802539	13.651855
158437.4531	5011.343282	4452.683594	13.657715
158499.4688	5010.490723	4478.530273	13.697754
158558.0838	5010.611328	4452.291504	13.683105
158616.9375	5010.975098	4456.416504	13.674805
158672.8906	5013.510742	4462.314453	13.647949
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158784.6719	5007.40825	4468.000977	13.629395
158841.0313	5010.326172	4461.416902	13.691895
158902.3594	5009.456543	4463.404297	13.708984
158962.8894	5009.196504	4439.187012	13.682129
159025.2969	5008.64209	4430.783203	13.675781
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159143.3125	5012.837895	4445.698928	13.673828
159204.2188	5012.490723	4469.826953	13.686777
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159315.6875	5013.966309	4465.141602	13.65332
159379.6875	5011.538062	4432.417989	13.657715
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159499.9375	5010.691886	4432.759786	13.717265
159551.0313	5010.314941	4437.407227	13.692363
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159662.7188	5011.222168	4448.370805	13.688453
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159784.3126	5010.651855	4455.40825	13.702637
159841.5	5008.181152	4451.445801	13.683105
159903.1875	5010.564941	4491.681621	13.67334
159965.25	5010.320801	4457.055176	13.713379
160022.4375	5014.652344	4428.789551	13.69043
160082.9688	5008.886628	4438.026367	13.683105
160138.3125	5013.908105	4430.472168	13.680178
160200.625	5013.88916	4445.287109	13.719727
160257.4844	5017.483398	4403.621777	13.680176
160314.8906	5015.92041	4451.334961	13.67627
160375.9375	5013.875	4465.617678	13.6875
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160608.5938	5018.684062	4442.327148	13.683594
160669.5938	5010.92627	4480.453125	13.703125
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160842.5	5011.915527	4438.134766	13.690918
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181068.375	5019.729004	4427.592773	13.899219
181123.9531	5015.124023	4445.822266	13.890918
181186.2188	5016.833789	4436.306152	13.873828
181246.9844	5012.958984	4460.647461	13.666504
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181477.1875	5018.889748	4433.14502	13.887988
181535.4219	5017.298828	4446.827441	13.695312
181601.6719	5021.316406	4443.572754	13.872983
181650.1719	5017.758836	4440.641602	13.884082
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182076.1719	5019.775391	4464.879887	13.888922
182136.6719	5818.298828	4462.46562	13.874918
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182253.7344	5008.034688	4457.954355	13.70752
182323.0313	4997.201172	4451.848973	13.680684
182379.4063	5018.246582	4436.780762	13.709473
182439.8438	5017.918945	4426.557129	13.680178
182497.0781	5022.599121	4421.757324	13.57886
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182612.3906	5015.239887	4435.369629	13.532227
182674.4531	5015.010254	4473.598145	13.519531
182734.7656	5018.70166	4422.569336	13.562988
182794.7031	5017.758838	4428.749512	13.815723
182855.9375	5015.788802	4438.453613	13.831836
182816.6875	5014.782895	4446.509277	13.571777
182973.2188	5019.151367	4489.811621	13.857227
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183088.6875	5019.098145	4472.852148	13.82793
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183207.1719	4997.977539	4457.258789	13.653809
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183434.1583	5018.490234	4420.097658	13.812793
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183836.1406	5020.87793	4469.570312	13.506359
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184017.8125	5021.127441	4438.815818	13.818184

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164141.0625	4999.552734	4442.261719	13.601562
164198.3504	5023.474121	4414.541016	13.483887
164257.4219	4998.978582	4451.898289	13.478004
164314	5019.705543	4440.776367	13.487305
164383.375	5002.484355	4413.097168	13.478027
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164496.625	5023.084236	4438.111328	13.508766
164554.9219	5018.048828	4435.742676	13.633301
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164672.9219	5011.783203	4489.403809	13.61084
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164787.0469	5018.848873	4442.513184	13.474809
164843.1875	5022.497559	4453.102051	13.462637
164803.3438	5018.813281	4440.249023	13.548826
164959.4688	5018.29541	4450.751465	13.612305
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165081.125	5012.563965	4453.062988	13.446289
165141.0156	5013.484844	4408.75	13.580078
165197.8719	5013.182617	4451.479492	13.450195
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165314.5825	5018.903808	4445.988535	13.524802
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165433.125	5020.002441	4402.720703	13.565937
165492.875	5018.488047	4435.979492	13.538133
165551.8281	5017.849414	4443.028367	13.437012
165612.8408	5014.840137	4415.802734	13.520998
165672.8281	5019.205588	4458.228516	13.444336
165729.1094	5019.115723	4466.596703	13.626855
165794.9375	5005.43457	4439.551758	13.584473
165851.0313	5019.062988	4416.526855	13.570912
165909.3125	4997.283672	4422.168016	13.588914
165969.8906	5018.862793	4424.452637	13.555176
166028.1719	5015.291016	4435.883281	13.455588
166083.2031	5020.388672	4450.292448	13.59082
166144.1408	4998.130371	4408.750488	13.63916
166205.2813	5019.571777	4422.587402	13.591797
166262.1408	4998.418892	4403.383301	13.674316
166319.8281	5018.443359	4405.44873	13.702148
166375.6719	5018.492676	4393.906203	13.893358
166431.5781	5016.706113	4455.609663	13.70459
166487.9531	5021.338426	4422.433105	13.69043
166549.4688	5018.031738	4401.053223	13.681641
166606.5313	5015.500977	4437.448707	13.63916
166666.6094	5017.353027	4410.285898	13.679687
166723.1875	5017.956055	4395.131348	13.68457
166785.2031	4998.381543	4461.332031	13.626465
166851.7188	4998.399902	4425.541016	13.675781
166910.6406	5023.389629	4454.625	13.626953
166970.125	5019.884277	4459.978027	13.65825
167030.2813	5023.436523	4434.278809	13.620605
167091.0156	4993.813965	4451.388184	13.707031

167147.9063	5000.321777	4446.859863	13.658691
167204.0625	5013.296387	4483.71875	13.622559
167264.6781	5016.413674	4448.30957	13.65826
167321.6094	5019.740723	4470.902344	13.638872
167378.6875	5020.328613	4473.246582	13.71875
167441.9888	4997.740723	4458.508789	13.633789
167497.9531	5018.801562	4492.322754	13.66748
167558.7031	5017.385254	4458.898094	13.654297
167618.1875	5018.333496	4441.717773	13.647461
167685.2613	4990.062988	4441.101074	13.639648
167742.8281	5021.887187	4441.05857	13.712402
167802.4063	4999.169434	4436.886719	13.63623
167860.2031	5018.290857	4435.404785	13.678223
167918.0469	5019.385234	4422.858881	13.672852
167976	5020.078125	4436.582031	13.541992
168031.5313	5024.404297	4479.352539	13.679687
168090.5781	5007.360352	4437.213887	13.60498
168148.1406	5017.789316	4430.734863	13.553711
168209.2031	5020.967773	4442.465332	13.512895
168269.8438	5017.737305	4426.768066	13.555178
168326.2031	5018.581035	4473.146973	13.702148
168383.75	4990.729492	4448.175781	13.716797
168440.7031	4998.223633	4444.476562	13.713867
168501.0938	5018.842773	4452.888672	13.644043
168562.3125	5016.322754	4436.508789	13.649502
168624.4531	5014.065918	4469.346191	13.816211
168681.875	5018.404297	4484.359863	13.655273
168742.9063	5008.834766	4455.128418	13.541504
168808.9531	5007.23677	4447.772949	13.691895
168867.5	5016.117676	4444.320312	13.637695
168932.625	5008.149802	4455.890234	13.499023
168991.4219	5021.208543	4452.253806	13.611325
169049.0166	5008.191895	4431.550293	13.810352
169106	5018.80127	4446.067871	13.553223
169168.9844	5017.216797	4448.888184	13.591309
169224.0938	5020.237305	4465.830684	13.657715
169282.6875	5005.663086	4408.839355	13.70459
169350.1719	5021.339355	4426.90918	13.678223
169408.9531	5001.268058	4435.01416	13.686095
169470.5938	4999.804687	4426.820312	13.712402
169529.9219	5019.92627	4484.6875	13.685547
169600.4063	4996.038086	4441.231445	13.681621
169669.375	5001.072266	4427.257812	13.637695
169725.5469	5018.737793	4439.064941	13.657715
169781.6125	5020.49707	4446.124512	13.670898
169843.4063	5018.722656	4429.722656	13.626853
169905.3281	5001.280782	4422.781738	13.687688
169961.4531	5026.307617	4419.329102	13.660156
170020.5781	4999.658691	4456.169941	13.608887
170077.25	5024.067871	4391.822268	13.547852
170136.825	5001.947286	4433.611818	13.694824
170201.8125	5001.307617	4440.460937	13.660845

170258.7813	5020.894141	4443.276855	13.702637
170315.0469	5004.697754	4467.122559	13.69043
170371.4375	5024.241899	4440.109663	13.722168
170428.3438	5022.296898	4463.219727	13.711914
170488.5781	4890.114746	4440.53623	13.580664
170546.9631	5025.018555	4472.861816	13.590332
170605.4844	5002.231934	4475.753808	13.828418
170689.25	4992.572266	4437.635254	13.651367
170725.4063	5022.61377	4452.576172	13.689941
170782.8281	5023.685527	4408.306152	13.68457
170841.4375	5007.236816	4403.523437	13.702637
170906.5469	4987.499512	4416.617676	13.617187
170968.5313	5022.23877	4469.993164	13.65332
171028.1406	4989.239746	4453.773437	13.874316
171080.0625	5021.814453	4434.351562	13.87627
171150.5781	5001.192871	4441.226516	13.608375
171220.1406	4993.556152	4446.394043	13.878711
171278.4688	5018.471191	4447.050781	13.708984
171338.375	4998.100088	4446.240723	13.662598
171408.4844	5001.326688	4423.802734	13.658203
171472.5625	4996.132224	4430.391502	13.684082
171537.4531	5007.390137	4478.700196	13.687012
171600.9844	4991.431841	4455.615723	13.668945
171657.8906	5019.920698	4460.022461	13.692383
171721.7031	5003.56543	4437.832031	13.627441
171786.8063	4896.737805	4444.973145	13.662109
171851.8125	5004.10498	4424.839844	13.720703
171915.6094	4993.682129	4409.078125	13.674316
171977.0781	5020.98291	4474.418504	13.677734
172039.8094	5019.385723	4433.967285	13.701172
172099.0469	5008.228516	4431.825195	13.672248
172163.3594	4994.801758	4420.378465	13.686035
172227.1875	5003.563008	4459.669922	13.704102
172283.5156	5001.725588	4437.954102	13.679687
172347.7969	5001.700185	4462.657715	13.691895
172416.8906	5008.328172	4446.722658	13.688523
172482.625	4992.000488	4443.76416	13.680664
172546.7031	5003.076172	4435.880371	13.702148
172610.6313	5001.146484	4419.830568	13.657227
172686.625	5019.568895	4424.077148	13.725596
172723.2344	5017.598688	4435.833594	13.689941
172780.5313	5023.058594	4438.747559	13.709961
172837.8406	5001.512207	4440.687988	13.663086
172902.2969	4995.841309	4437.483398	13.675781
172966.0938	4998.962891	4462.495117	13.6875
173021.9219	5020.115723	4477.946289	13.674318
173085.9688	5000.195312	4498.468282	13.692871
173150.8438	5008.006836	4492.873635	13.662598
173214.7031	4995.831152	4489.599609	13.702637
173278.5156	5004.317871	4460.887695	13.714844
173341.8406	4990.72998	4446.508789	13.664062
173411.4844	5005.006738	4463.538574	13.702637

173468.4844	5023.022461	4455.445801	13.686982
173529.0781	5024.254883	4472.755859	13.675781
173587.8094	4996.855857	4447.543457	13.698242
173652.2188	5002.023437	4468.30857	13.681641
173716.8594	4998.402832	4442.130859	13.688945
173781.2188	5003.439541	4448.835449	13.658881
173846.3908	4991.491699	4432.989258	13.668504
173903.3125	4991.140625	4438.468262	13.699453
173971.5	5001.87627	4408.480234	13.683105
174036.9219	4998.542969	4424.77632	13.672363
174101.2613	5005.550293	4450.85791	13.675781
174164.2658	5002.080568	4440.484375	13.707031
174229.5	5006.012207	4485.947266	13.713867
174294.0625	4996.390625	4444.979492	13.677734
174358.7031	4981.297363	4417.067871	13.689822
174418.875	5019.270998	4406.563477	13.679189
174479.9375	4991.119281	4432.999023	13.697268
174545.1719	5001.1875	4411.322256	13.717286
174610.875	4998.945801	4454.729492	13.684082
174674.4219	4998.636719	4467.797363	13.688965
174735.75	5020.351582	4437.07373	13.707031
174800.9219	4994.294822	4448.342773	13.685059
174864.9844	4997.981445	4459.212891	13.685547
174927.8719	4994.142578	4436.325195	13.676758
174984.4219	5021.877441	4431.892187	13.706055
175049.5	4999.493164	4408.17334	13.685039
175114.6719	5001.625	4447.411133	13.641113
175180.6563	5000.589824	4430.634277	13.683105
175245.3125	4999.046875	4399.305176	13.676758
175310.7344	5003.081055	4433.618164	13.686823
175376.4688	4992.480957	4432.54834	13.691095
175437.3906	5021.427734	4432.677248	13.691406
175502.1563	4998.610352	4420.382812	13.683105
175558.3438	5027.001485	4449.097656	13.690178
175618.1719	5000.378465	4456.149902	13.694824
175683.6563	5002.652632	4444.61377	13.680664
175750.4219	4994.875293	4453.035845	13.706055
175815.9063	5000.392578	4457.075195	13.688504
176079.6075	4996.177734	4460.109863	13.710037
176945.1563	5002.633301	4429.36377	13.689594
176010.5938	4995.856887	4456.374512	13.694824
176077.6675	5000.419822	4488.498094	13.655762
178143.3125	4994.103518	4485.304199	13.690918
176207.8719	5003.576172	4434.063965	13.698242
176273.25	4995.936523	4441.998047	13.698242
176339	5001.49707	4474.441895	13.685547
178403.6094	4996.772461	4425.818164	13.700195
176489.3125	5004.685059	4466.878806	13.689941
176534.5	4996.961914	4456.505859	13.666016
176599.4063	5003.022461	4427.841309	13.702637
176664	4996.929687	4486.914062	13.703125
176720.125	5023.361328	4482.818406	13.677734

176779.7188	5001.160166	4433.838872	13.680684
176844.4063	4996.722168	4448.226074	13.67627
176909.2969	5005.547451	4410.006348	13.706055
176975.0469	4992.751953	4455.853027	13.702637
177040.2188	5001.630859	4451.183105	13.697288
177105.6156	4999.345703	4432.743862	13.685547
177171.3806	5007.161621	4446.894531	13.687012
177235.7344	4994.024902	4451.716797	13.680176
177300.3125	5000.020986	4475.188865	13.672852
177366.0625	4997.534118	4440.582031	13.683105
177430.7344	5004.236816	4464.98875	13.695312
177495.0625	4994.891802	4492.647461	13.696242
177560.2858	5006.549805	4437.736818	13.686035
177625.6563	4994.123535	4461.395996	13.685547
177691.4219	5001.861816	4430.799316	13.680664
177752.5469	5021.011719	4463.869829	13.696289
177817.8908	4992.706055	4441.920898	13.686477
177875.0625	5023.48707	4418.979004	13.652832
177934.4844	5003.79248	4458.489727	13.678223
177999.4219	4997.350098	4435.729004	13.702637
178057.25	5023.887988	4411.29834	13.683105
178117.0838	5003.080059	4396.592285	13.687988
178183.0838	4995.292968	4454.499512	13.681641
178247.1719	5006.549805	4430.617187	13.697754
178315.1094	4993.806887	4452.469238	13.710937
178380.875	5003.26709	4437.090332	13.655762
178446.7031	4998.149902	4418.527832	13.698289
178511.2031	5003.846145	4449.516602	13.667989
178569.5781	5020.22998	4428.82959	13.648437
178637.7031	4989.047363	4450.586814	13.701172
178700.1094	4996.570801	4456.304199	13.704559
178765.8438	5008.431641	4427.022461	13.706543
178831.0469	4996.055684	4500.450195	13.670898
178887.3281	5016.25293	4448.800293	13.688477
178948.0156	5017.836426	4459.114746	13.666504
179005.8438	5000.838887	4491.206065	13.704102
179070.2813	5004.639648	4457.226074	13.687988
179135.1719	4993.839355	4442.584961	13.69043
179192.125	5021.960449	4424.017578	13.660156
179250.4219	5003.427734	4429.630371	13.648437
179309	5023.992676	4438.722168	13.689453
179368.0625	4999.31543	4405.813965	13.702637
179432.7168	4997.902344	4422.142578	13.703613
179493.1875	5018.125488	4423.864551	13.686035
179560.0156	4997.632324	4428.894629	13.668845
179624.9531	5002.121582	4419.242187	13.729492
179689.8281	4999.231934	4458.306841	13.679587
179753.9375	5002.581543	4482.943369	13.666035
179810.1563	5023.134768	4460.21582	13.687012
179871.8908	5002.216309	4441.27832	13.662129
179927.9219	5023.13623	4430.546875	13.691895
179988.5156	4994.865527	4429.78418	13.673828

180044.6281	5022.833984	4432.70168	13.683574
180103.125	5003.415527	4449.718262	13.683594
180168.0781	4997.88502	4432.733887	13.679887
180224.75	5020.834082	4436.938477	13.679887
180281.4219	5022.969238	4486.939941	13.686777
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180402.125	4999.29541	4485.398926	13.639116
180468.1094	4999.813574	4456.768043	13.671387
180525.1875	5023.541016	4446.288086	13.680176
180584.4375	4998.367187	4433.155273	13.665627
180650.4219	4999.575684	4407.521484	13.699707
180707.2858	5025.833008	4417.124023	13.683105
180765.75	5016.602051	4404.317871	13.659688
180823.2813	5016.961426	4427.071777	13.710449
180885.2344	4993.801074	4479.804004	13.699219
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181071.5	5017.138184	4461.983379	13.714366
181130.0488	5016.956984	4486.389648	13.661133
181188.2344	5022.188477	4444.23877	13.691895
181248.3908	5002.476562	4486.997559	13.679199
181312.4219	5000.424318	4432.759277	13.695801
181369.0488	5018.026381	4456.602871	13.685547
181430.5838	5017.533891	4454.11377	13.671387
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181755.9531	5012.983398	4433.83252	13.669922
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181872.26	4996.470703	4464.800293	13.677734
181937.3908	5002.581621	4448.096191	13.668945
182003.3908	4994.07888	4451.070312	13.695312
182061.2344	5018.580566	4480.750977	13.676227
182120.4688	5018.756836	4460.557617	13.67394
182180.825	5017.02002	4473.412109	13.682129
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182302.5313	5022.791892	4451.047852	13.697754
182367.1094	4996.51769	4421.713379	13.655762
182423.9375	5019.132324	4438.395608	13.672363
182481.6406	5016.956055	4450.019043	13.671387
182540.0156	5019.88457	4449.328172	13.67041
182600.9375	5000.235352	4411.404785	13.682129
182664.8908	5000.877246	4389.574218	13.710937
182729.1406	4995.929199	4423.203125	13.719727
182795.4375	5005.643555	4427.6875	13.656738
182862.6875	4996.216797	4451.021973	13.683594
182922.4375	5018.02632	4453.930664	13.676758
182990.9218	5001.145886	4437.123535	13.666777
183047.0313	5023.683105	4477.681133	13.647461
183106.4688	4999.385742	4446.398437	13.680176
183167.7658	5019.072754	4467.353515	13.650391

183223.76	5017.51123	4457.40625	13.682617
183281.9219	4997.258789	4423.581655	13.685039
183349.2813	4998.289062	4445.988816	13.682832
183405.3438	5020.068895	4429.02002	13.6858203
183461.2188	4990.492187	4421.956984	13.680664
183520.4631	5020.157227	4426.378806	13.687969
183578.5938	5017.705078	4441.852539	13.710937
183634.1719	4999.380371	4472.407227	13.689941
183691.8875	5019.754395	4435.914551	13.689822
183749.4219	5014.100586	4430.697754	13.645996
183805.7858	5018.891408	4482.015137	13.896777
183874.7344	5002.419922	4454.576172	13.877248
183939.8875	5003.10791	4437.241699	13.665527
184005.1719	4996.116211	4469.957773	13.705078
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184119.2188	5017.68457	4417.42041	13.679887
184177.825	5015.8125	4440.053711	13.716309
184236.8125	5019.904785	4448.196777	13.653809
184294.3281	5021.62207	4425.859863	13.709473
184353.5781	5002.894531	4444.600498	13.65625
184418.1719	4990.207031	4405.726074	13.677734
184479	4992.857422	4382.582773	13.728516
184538.1875	4997.561035	4392.939453	13.675781
184592.7813	5023.835937	4438.870117	13.679189
184651.0938	5003.95752	4395.809082	13.663332
184718.0158	4992.897481	4432.768555	13.674316
184771.8125	5024.903808	4448.948242	13.677246
184831.2969	6013.324707	4446.423828	13.678711
184887.9375	5020.063965	4475.513672	13.693359
184946.0158	5020.241211	4452.984863	13.680664
185011.3438	4996.47168	4420.728516	13.686777
185068.4219	5018.957031	4416.310647	13.683584
185138.8875	4997.153809	4443.118184	13.680176
185207.7031	4999.287598	4466.965332	13.671387
185277.8281	4998.835937	4422.475098	13.692383
185339.2813	5021.824707	4410.219238	13.70752
185399.0938	5005.473145	4404.54248	13.6875
185462.8906	4996.692383	4441.120117	13.720215
185518.75	5021.057817	4437.039551	13.65625
185574.875	5015.894531	4411.531738	13.686523
185631.2813	5019.294434	4430.686036	13.67334
185687.0625	5018.121094	4448.014848	13.70166
185745.3281	4999.230469	4448.768555	13.716309
185815.7344	4994.522949	4457.061523	13.656891
185881.4375	5001.811621	4489.544922	13.874805
185947.4375	4993.428223	4481.066895	13.684082
186011.2031	5000.212691	4448.708496	13.706055
186068.0938	5020.839844	4457.631348	13.711914
186124.0938	5024.415527	4452.645508	13.685547
186182.3438	5002.648437	4459.105957	13.660645
186248.5469	4993.009277	4463.07959	13.686035
186305.25	5018.411133	4462.52632	13.679199

186384.9375	4988.050293	4438.202148	13.702148
186423.5469	5022.138648	4440.336426	13.690918
186482.5781	4999.461426	4444.779785	13.690918
186544.4844	4999.828125	4451.186523	13.707031
186603.5938	5021.111328	4408.404297	13.711428
186664.9219	5018.543457	4480.698242	13.67627
186725.7188	5003.277832	4439.467305	13.690918
186790.3438	5000.252441	4443.946289	13.696777
186851.5938	5022.337402	4448.004395	13.693848
186909.4531	5013.205625	4480.519531	13.699941
186965.8438	5016.133301	4418.408203	13.692871
187022.1563	5020.81084	4410.512207	13.736816
187080.8908	4994.897481	4438.526855	13.697288
187158.6583	5007.075195	4432.683105	13.694338
187222.3906	4993.644043	4437.845215	13.679687
187278.9063	5022.318848	4432.356398	13.709981
187340.3281	5000.588184	4458.945312	13.681841
187398.7956	5023.091309	4440.423828	13.660156
187454.25	5002.797383	4445.396973	13.666992
187510.6569	5021.89873	4467.469748	13.688528
187567.2031	4998.742187	4449.98291	13.683105
187823.2344	5017.162617	4461.466797	13.67627
187890.7031	5010.850586	4431.888184	13.703813
187756.2031	4998.422363	4407.717773	13.671387
187821.2989	5003.56543	4438.568848	13.687012
187884.2989	4992.904785	4444.740234	13.647481
187940.9844	5018.234863	4443.181641	13.668845
188008.5938	5002.066358	4526.229004	13.661621
188064.7188	5022.812783	4465.333008	13.662109
188122.7188	5004.253418	4476.102539	13.692871
188187.5	4998.712891	4472.122559	13.700195
188252.5156	4998.880664	4422.145996	13.693359
188319.825	5009.265137	4447.081797	13.676758
188383.1094	4995.917969	4437.629395	13.692871
188449.4844	4998.246582	4467.373535	13.688965
188514.0156	4994.901387	4456.93457	13.693848
188578.5781	5001.313477	4469.01709	13.693359
188638.4375	5001.093262	4446.475098	13.687988
188709.5625	4993.938965	4490.899414	13.672852
188773.3438	5008.460937	4456.5825	13.674805
188838	4988.196777	4438.398926	13.681152
188907.2656	5002.538086	4425.678711	13.671367
188975.4844	4999.638867	4448.975586	13.694336
189032.7344	5024.87207	4482.214355	13.67627
189098.5156	4994.007812	4484.025879	13.681152
189161.9688	5006.444336	4443.287578	13.694336
189224.9375	4998.130859	4488.872363	13.649414
189290.375	5003.453613	4476.78709	13.663086
189351.8875	5020.588355	4483.108445	13.680156
189411.3594	5020.203613	4482.568359	13.680176
189467.9063	5020.829395	4439.590332	13.680176
189537.5469	5003.548826	4485.805176	13.696777

189803.6094	4999.097656	4439.647949	13.686523
189860.2969	5021.114748	4431.406738	13.670898
189720.1875	5000.271484	4443.503418	13.649414
189784.8125	4997.904785	4463.173828	13.686016
189840.75	5020.872559	4464.821777	13.636719
189898.2969	5019.099121	4484.26709	13.68457
189957.5158	5018.768043	4436.722168	13.687988
190022.4218	4998.978516	4460.702637	13.654785
190088.125	5002.3125	4464.479004	13.671387
190153.6125	4995.004395	4442.780762	13.68873
190219.3125	4999.544922	4449.361348	13.686477
190285.3281	4990.458055	4458.717773	13.68457
190346.0938	5000.734863	4452.800781	13.686523
190408.3281	5008.036551	4419.268068	13.686523
190475.3281	4997.174805	4428.458964	13.708496
190539.7188	5004.001953	4430.586914	13.706055
190605.6408	4998.018068	4404.902632	13.688477
190665.4668	5021.388184	4444.077148	13.674318
190729.7031	5000.480234	4465.547383	13.687012
190788.4375	5024.532715	4449.774414	13.687988
190848	5003.818848	4448.51709	13.706543
190910.9375	4995.818359	4444.397949	13.696288
190967.5781	5023.953613	4465.733998	13.688477
191025.8594	5003.829102	4455.12207	13.67627
191091.3694	4999.379395	4443.040039	13.684551
191156.2969	5002.280762	4442.209473	13.6875
191216.25	5017.753808	4458.26418	13.684551
191272.9219	5022.241211	4440.973633	13.681841
191339.0781	5020.498535	4453.206984	13.676758
191398.9531	5003.239748	4450.920698	13.69873
191462.7188	4999.020508	4432.763672	13.686523
191527.2344	5003.638184	4418.071777	13.682817
191584.0938	5018.954863	4419.593202	13.657715
191642.9375	5019.85498	4420.352051	13.663088
191707.3281	5003.09375	4466.146484	13.700195
191773.0938	4997.829189	4428.041504	13.686892
191837.9531	5005.810547	4422.385742	13.716797
191892.0625	4996.511123	4458.522461	13.698242
191964.4844	4991.979492	4422.78123	13.67334
192021.1719	4998.075684	4437.574219	13.693848
192079	5022.607422	4414.581543	13.685527
192137.6875	5004.628418	4425.633789	13.691895
192201.7813	4996.838378	4444.333496	13.706543
192269.7188	5007.733887	4432.812088	13.658681
192335.2344	4993.296387	4427.500488	13.678711
192392.3438	5001.314941	4423.907715	13.690918
192456.9644	5003.758301	4436.621777	13.680176
192521.8094	4995.904785	4410.956543	13.683594
192585.9688	5004.023437	4417.077637	13.689453
192643.8594	5020.191895	4450.589824	13.679687
192700.9375	5021.73877	4435.348633	13.658691
192758.9688	5003.302734	4451.522849	13.661621

192824.0625	5006.92627	4433.824218	13.736328
192890.9063	5001.775391	4429.775879	13.678223
192955.8438	5001.132812	4434.79248	13.677245
193011.7813	5019.851074	4444.020508	13.686523
193077.1408	4996.792969	4453.739258	13.71582
193141.4376	5008.105857	4449.412109	13.710837
193206.1094	4998.412109	4430.819824	13.675293
193271.3125	4999.830078	4425.527344	13.705078
193329.0468	5022.374023	4436.193789	13.703125
193385.4063	5000.902344	4444.097656	13.666016
193455.7969	4997.854004	4441.804492	13.667448
193520.125	5008.974121	4463.135254	13.676758
193585.5781	4993.848437	4457.852837	13.701172
193666.5469	5004.117187	4460.675293	13.69043
193714.2188	5023.453125	4444.619141	13.666016
193772.3281	5002.962402	4439.263184	13.667969
193836.375	4997.801758	4436.983164	13.692871
193801.5825	4999.790039	4445.465332	13.69873
193958.1094	5021.98877	4439.847268	13.663674
194018.5469	5000.57973	4433.283184	13.671875
194073.375	5025.407715	4428.887895	13.689453
194132.2813	4997.270508	4411.928758	13.687012
194201.3281	5000.197268	4465.685059	13.689453
194258.376	5019.67627	4401.119141	13.691895
194323.1563	5002.267109	4433.279297	13.689434
194387.25	4998.454102	4423.587188	13.67827
194452.125	5004.591797	4449.783891	13.677246
194513.825	4997.512695	4425.291504	13.664062
194581.6563	5008.435059	4487.182109	13.697754
194646.2813	4996.907715	4487.455566	13.672852
194711.4531	5004.508301	4458.881836	13.657715
194777.4688	4999.246605	4432.154785	13.69873
194839.2969	5020.485352	4471.853808	13.68457
194900.4219	5022.467773	4431.475098	13.697206
194959.0156	5020.853516	4434.603516	13.668945
195018.5469	4998.771973	4441.818406	13.693359
195084.0781	5005.394531	4437.820801	13.630971
195147.8906	5002.546875	4420.080078	13.71582
195212	4992.98584	4431.187969	13.678223
195274.9063	5000.41748	4430.013672	13.661621
195338.4219	5000.723633	4444.208496	13.652632
195404.1875	4996.794434	4465.17334	13.689453
195470.6875	5007.178711	4481.366899	13.727539
195536.125	4995.736328	4459.627441	13.62793
195603.3594	4998.668945	4411.101562	13.697764
195650.7344	5022.047363	4424.075195	13.715332
195709.1563	5004.543945	4431.765625	13.661133
195774.3125	4997.979004	4427.31543	13.67041
195838.75	5007.228492	4434.104492	13.669822
195896.2666	5017.57969	4437.310059	13.679199
195951.9688	5000.713867	4470.981934	13.680684
196011.3594	4996.327637	4467.858398	13.691406

198074.5938	4999.728027	4454.037598	13.683105
198138.7031	5008.932129	4428.912598	13.677248
198203.5838	4996.450543	4471.933594	13.641113
198268.5781	5001.538574	4446.00488	13.677734
198327.6719	5017.973833	4434.342285	13.703613
198387.8094	5021.440918	4433.447288	13.888523
198445.0469	4999.575684	4434.188035	13.897754
198510.2344	5008.11377	4459.019531	13.674316
198578.6	5001.212891	4470.208543	13.677734
198642.2168	5004.474121	4452.257324	13.705588
198707.4063	4999.367676	4423.342285	13.672963
198764.5781	5021.876953	4433.439453	13.67041
198823.9844	5008.100586	4484.393555	13.674805
198889.1064	4993.788802	4450.196269	13.848437
198954.0781	4999.530273	4473.18457	13.885039
197013.7344	5018.813574	4450.480469	13.671387
197074.4688	5022.337891	4502.787578	13.648928
197143.8125	5002.032227	4487.937988	13.893848
197199.7344	5019.231934	4479.275879	13.839648
197264.2344	5001.052734	4478.928223	13.661133
197329.4063	4995.207031	4465.980937	13.717773
197395.4531	5003.191406	4448.126953	13.728515
197461.5625	5020.682109	4428.656504	13.685547
197517.4375	4989.725588	4481.95584	13.691406
197573.3594	4997.682324	4454.528297	13.893848
197631.3438	5029.254395	4445.128908	13.720703
197689.3906	5002.397949	4402.880156	13.682617
197745.7188	5022.875	4421.116899	13.655762
197804.125	5004.958473	4451.498047	13.688477
197865.8094	5018.918457	4458.179687	13.650879
197924.2989	5020.468262	4483.960937	13.669822
197984.7188	5017.289062	4451.578125	13.69043
198049.8406	5010.088355	4441.272949	13.661621
198114.8594	4999.447754	4464.059082	13.620117
198179.9688	5003.585837	4453.344727	13.684062
198249.5625	5003.325884	4431.018066	13.670888
198311.0166	5021.941406	4421.826172	13.675293
198368.3906	5022.407715	4393.155273	13.888985
198427.5	5004.335149	4404.091797	13.706543
198485.376	5019.522461	4430.93457	13.691406
198542.2168	4999.490723	4452.313985	13.895312
198598.0625	5022.878906	4413.469238	13.69043
198654.5625	5023.774414	4387.11084	13.682617
198718	4993.735352	4447.16748	13.67334
198781.1563	5004.82373	4478.9375	13.678223
198845.5156	4997.008786	4414.021873	13.886035
198910.4844	5001.01123	4421.398926	13.728518
198973.4375	5022.10791	4437.457031	13.662598
199038.8125	4994.072268	4437.407715	13.675293
199104.8125	5004.585918	4434.602051	13.651387
199170.5781	4981.862793	4487.224121	13.879199
199236.0156	5002.787598	4452.040527	13.895312

199301.1875	4990.873047	4454.440918	13.672363
199361.9375	5060.272461	4426.568848	13.696289
199419.4688	5022.703125	4448.308584	13.697268
199477.7188	5003.904785	4452.111818	13.709473
199543.4531	4995.761953	4439.92334	13.664062
199610.2813	5002.047852	4456.934082	13.675293
199671.2344	5020.73584	4434.692383	13.641602
199732.125	5005.943358	4440.802246	13.675781
199788.0781	5010.982676	4436.052248	13.672963
199854.7856	4996.228074	4455.83252	13.697754
199920.5	5012.096145	4421.791504	13.725098
199978.7813	5024.240234	4447.550781	13.665039
200035.7188	4991.631836	4419.555176	13.671875
200095.0781	5022.568848	4387.021873	13.685059
200153.7188	4991.974121	4403.503418	13.690918
200215.4219	5021.487793	4404.491699	13.668477
200274.4063	5000.296387	4414.202637	13.661855
200330.9063	5026.338379	4430.90625	13.695801
200388.5313	4993.538062	4444.962691	13.667969
200449.8125	5021.303223	4402.345703	13.683359
200519.7031	5000.631348	4431.513672	13.666457
200583.2344	4996.98582	4401.833498	13.664062
200647.3438	5005.980684	4417.88623	13.688965
200704.2813	5016.183347	4449.876953	13.697268
200761.7344	5016.268621	4439.243164	13.68457
200818.1875	5020.683584	4452.344727	13.663086
200882.75	5003.493535	4434.757812	13.676758
200946.7969	5005.886484	4458.410156	13.643066
201011.4975	4991.852051	4475.112305	13.677734
201067.6406	5019.007812	4463.848145	13.689707
201129.1094	5000.19673	4464.758789	13.68457
201188.375	5023.128808	4445.510742	13.681152
201251.2188	5003.762207	4413.858891	13.694396
201314.8594	4997.428711	4429.367878	13.717285
201370.7969	5016.270508	4454.473145	13.697268
201428.9063	5020.944336	4463.040527	13.678711
201488.0469	5022.025879	4480.187988	13.658691
201547.0626	5004.910156	4489.523437	13.70752
201612.8281	4996.165527	4449.530762	13.691408
201688.5719	5016.425293	4487.035156	13.641113
201734.125	4993.217285	4441.280273	13.681152
201789.9844	4996.393555	4423.871094	13.664062
201846.2813	5004.230857	4461.145896	13.687968
201910.9375	5000.628418	4477.237783	13.71582
201976.9844	4998.123047	4464.320312	13.682129
202042.6406	5001.540527	4460.548316	13.666892
202108.4219	4989.054198	4450.103027	13.70752
202170.0158	4993.075195	4493.989258	13.662109
202234.8906	5001.845215	4458.01416	13.688242
202291.9219	5022.134277	4444.225598	13.674805
202348.5313	5018.075884	4466.503906	13.662109
202409.25	5020.660156	4462.101074	13.703126

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202605.3281	4999.512207	4451.190918	13.6875
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202727.1875	5020.518113	4454.144043	13.678223
202786.8808	5019.041504	4483.368164	13.679199
202848.6094	5021.88916	4473.81543	13.700684
202914.3594	4999.755859	4476.329559	13.675761
202980.1583	4994.095215	4473.434082	13.723633
203048.8438	4999.057129	4457.581055	13.682129
203115.1583	5008.511719	4439.378418	13.64209
203172.0938	5022.922363	4438.045898	13.657715
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203288.7188	5021.780273	4463.726074	13.684062
203347.5313	5009.297363	4465.696289	13.672952
203412.75	4996.094238	4429.792968	13.672363
203477.3594	5004.529287	4462.068359	13.678223
203535.1406	5020.135254	4427.193848	13.69043
203602.7031	5004.670698	4444.599121	13.679199
203672.3281	5004.22168	4437.104804	13.692871
203736.125	5001.802246	4447.433105	13.679199
203791.5313	5020.888652	4408.878027	13.678223
203850.0469	5020.591308	4426.653809	13.683105
203911.0313	5021.751485	4463.961914	13.683594
203970.1406	4993.313477	4448.480723	13.704102
204038.7188	5000.419822	4444.582031	13.718262
204098.25	5021.888629	4471.516602	13.687012
204153.1406	5021.726518	4434.489268	13.663066
204218.4375	4997.126853	4427.549318	13.679199
204281.3438	4997.852538	4439.296628	13.702637
204342.1583	5020.276367	4448.445312	13.65332
204403.2344	5020.289551	4432.494629	13.648926
204460.5	5023.616184	4431.016555	13.677734
204524.5156	4992.683594	4482.014648	13.692871
204581.8125	5023.387207	4435.633203	13.638184
204640.8594	5003.208496	4450.024902	13.682129
204705.2188	4996.257812	4415.754395	13.66748
204771.2188	4998.275391	4427.941408	13.702637
204833.6719	4997.339356	4439.791018	13.700684
204882.3281	5021.16748	4465.407227	13.695801
204948.0938	5018.485352	4434.773926	13.679199
205004.8406	5002.705586	4431.843262	13.681152
205061.7188	5022.239748	4432.838379	13.682596
205118.1875	5020.055178	4439.487773	13.702148
205174.1094	5021.588426	4415.214365	13.703613
205232.9688	5007.808934	4410.814941	13.700195
205298.125	4968.424805	4439.40332	13.678711
205354.9219	5017.402344	4391.574707	13.678758
205410.7813	5018.717773	4403.080469	13.726582
205471.7031	5019.838223	4441.574707	13.705566
205530.7969	5020.352051	4417.125	13.693848
205585.6719	5003.293457	4397.092773	13.687012

205880.25	4989.024802	4396.879385	13.703125
205716.4531	5013.776367	4434.681152	13.683594
205772.8125	5018.787598	4438.395508	13.663086
205840.1406	4997.762441	4416.544922	13.678223
205898.3125	5028.347856	4421.950884	13.690918
205958.1875	5001.168845	4375.258301	13.697754
206012.8125	5000.219238	4394.895117	13.679199
206071.4688	5018.28541	4431.839844	13.653809
206139.8806	5002.352539	4434.908203	13.700195
206208.1719	4989.421875	4425.263184	13.691895
206271.8406	4998.5625	4396.680845	13.698242
206327.5313	5020.635742	4420.784846	13.694336
206387.1563	5018.724121	4454.821289	13.711426
206445.1563	5013.853813	4444.543945	13.671875
206501.0313	5018.798318	4504.687012	13.691408
206560.3906	5020.995805	4483.282227	13.71875
206617.4531	5023.622559	4487.629385	13.681641
206677.5	4999.573242	4484.641113	13.67334
206734.0625	5017.581797	4484.403809	13.672652
206790.5938	5019.530782	4488.956843	13.680176
206850.4375	5021.893855	4492.188965	13.688945
206918.4531	5005.725098	4477.674806	13.674316
206970.5938	5023.928758	4500.568848	13.684062
207030.625	4995.769043	4458.122559	13.674805
207087.5625	4983.393826	4475.896973	13.688945
207142.8438	4992.743652	4483.865039	13.683594
207199	5026.148484	4483.481934	13.671875
207258.0313	5006.154297	4481.789551	13.678223
207322.3906	4989.534688	4476.370117	13.665527
207386.1719	5001.329102	4452.268066	13.688992
207444.8281	5017.211582	4448.786821	13.692871
207506.5	5015.367676	4450.710837	13.69873
207570.2031	4998.115723	4482.700884	13.679199
207630.4375	5023.586914	4453.618652	13.650878
207691.9688	5020.211582	4450.314941	13.672363
207750.9063	5021.018086	4489.890825	13.678223
207810.0158	5019.827441	4429.393555	13.668457
207867.1406	5016.345215	4444.062888	13.693358
207926.8125	5020.560781	4481.818164	13.640625
207983.1563	5016.832031	4455.085449	13.661133
208039.8584	5001.019043	4450.305176	13.691895
208097.1563	5020.805176	4488.531738	13.71875
208160.9375	5001.983379	4470.14209	13.657227
208218.4219	5017.083496	4451.115723	13.701172
208274.8281	5012.717773	4423.472858	13.678711
208331.7031	5012.696777	4467.394043	13.67827
208387.875	5017.808105	4462.838887	13.673828
208451.8438	4999.709473	4437.283672	13.708008
208519.8281	5026.347856	4430.973639	13.681133
208588.3438	5003.670888	4424.894531	13.679687
208633.5625	5002.508348	4444.521973	13.680884
208690.0313	5020.638867	4448.427734	13.657715

208757.525	4997.837402	4410.67334	13.694824
208826.0938	5000.582031	4498.468262	13.722168
208882.5	5022.838867	4438.101562	13.678223
208940.7969	5002.88084	4485.244141	13.687988
209007.0313	4995.588867	4440.363281	13.685058
209064.8563	5021.01416	4435.268066	13.697754
209132.1563	4999.037598	4429.245605	13.682129
209189.9531	5008.026855	4422.677248	13.705586
209251.25	5024.135254	4409.879883	13.666016
209309.5313	4990.831836	4418.883789	13.697754
209369.2031	5017.741211	4420.854492	13.685527
209428.5625	5015.488727	4425.842383	13.680684
209487.1563	5022.729492	4445.93457	13.703125
209545.7813	5000.942383	4417.263872	13.6875
209601.7344	5020.232422	4419.379395	13.69873
209682.375	5018.907715	4452.462891	13.650879
209718.5625	5019.888437	4442.695312	13.691406
209779.2813	5018.525879	4397.776855	13.69043
209835.0313	5018.896484	4485.297363	13.689941
209904.125	5001.746205	4439.720215	13.691406
209972.8594	5000.294922	4479.304687	13.678711
210031.1875	5020.713867	4452.757324	13.650879
210089.4063	5020.606934	4468.706055	13.686035
210148.7969	6018.981934	4420.23877	13.710637
210203.9531	5019.71875	4426.179199	13.698242
210261.2188	5018.044434	4427.35791	13.717773
210318.625	5019.339355	4427.27832	13.681152
210380.8281	4989.529785	4408.488281	13.675781
210441.1563	5023.221191	4412.76416	13.698242
210489.4375	4995.580566	4431.338887	13.650879
210558.9063	5018.046387	4434.686035	13.708984
210616.2188	5019.282227	4431.581543	13.680645
210672.6719	5019.533203	4443.095703	13.68457
210731.0781	5022.817383	4435.152832	13.668892
210794.8281	5001.494629	4442.083984	13.700684
210853.9844	5017.123047	4425.255859	13.669434
210910.8906	5015.89502	4489.045898	13.661641
210967.7813	5018.544922	4439.192871	13.680664
211026.4219	5018.525879	4458.913088	13.67041
211087.4219	5000.646484	4427.753906	13.683105
211152.0469	4993.677637	4489.05468	13.671875
211216.3906	5002.199219	4440.32959	13.719727
211278.4219	5015.584473	4432.862402	13.685547
211335.7813	5019.810547	4457.092773	13.668604
211403.4063	5005.595703	4435.725098	13.658891
211461.8718	5008.113261	4455.286133	13.674316
211519.0156	5023.651855	4409.146926	13.688865
211575.1094	5024.35498	4455.058152	13.693848
211634.6719	4993.674805	4473.807715	13.692871
211691.1094	5018.136742	4445.313965	13.678223
211752.5313	5019.044434	4461.873047	13.705586
211810.6875	5019.660645	4420.523926	13.705078

211871.1719	5021.908203	4434.839844	13.696289
211826.5781	5018.395996	4472.970703	13.679687
211983.7188	5024.395996	4442.935059	13.682598
212049.0938	4983.357422	4422.125488	13.687754
212105.7989	5018.863281	4437.318848	13.676758
212161.8225	5017.025879	4413.760254	13.688941
212217.4375	5014.32373	4455.007812	13.683105
212274.3594	5019.143066	4447.971191	13.671875
212338.9688	4999.6225	4457.86377	13.6875
212395.3281	5000.696289	4439.43457	13.714355
212461.6563	4987.305178	4387.084941	13.723145
212525.9375	5004.857227	4432.43457	13.703125
212585	5017.470703	4433.050082	13.713067
212642.7656	5013.919086	4458.776267	13.671387
212703.1719	5018.219727	4430.606934	13.687969
212759.7031	5000.954102	4428.608887	13.697266
212826.5469	5003.087969	4438.359375	13.638184
212881.6875	4988.825488	4428.847949	13.688992
212956.5625	5000.885039	4430.014116	13.696777
213015.375	5017.252441	4438.537598	13.71582
213075.3438	5018.800586	4426.554687	13.725098
213144.3125	4999.134277	4457.606445	13.696312
213209.6094	4995.663085	4447.491211	13.684082
213273.6406	5002.808594	4455.223145	13.67041
213338.5625	4994.354004	4409.382812	13.685527
213397.1876	5020.302734	4430.708008	13.658691
213456.5156	5023.276367	4419.418457	13.679887
213513.5226	5020.150879	4449.769043	13.692871
213578.0938	4985.880137	4423.28125	13.716797
213640	5025.194824	4448.897949	13.688992
213699.4375	5002.020896	4452.381838	13.680664
213764.8281	4993.736816	4423.555884	13.685527
213826.8563	5022.593262	4417.431641	13.714355
213888.2813	5017.592773	4430.168992	13.698777
213949.6094	4985.728004	4451.445801	13.683594
214015.3594	5002.841797	4443.516113	13.677245
214061.8906	5004.742187	4481.384766	13.674805
214147.3438	5001.849121	4425.570312	13.674318
214204.2969	5003.187998	4428.363516	13.689041
214281.8906	5022.823242	4433.645508	13.66748
214320.5838	4997.79541	4427.428223	13.639648
214386.8594	4995.897754	4424.916016	13.688992
214443.9531	5017.107422	4409.09082	13.687989
214499.875	5019.333008	4415.791504	13.668945
214559.0625	5021.979004	4410.280762	13.67041
214617.3438	5003.212891	4419.189453	13.666016
214682.7656	4986.542989	4456.364746	13.69043
214739.9531	5025.102051	4428.003418	13.666039
214800.75	5015.046875	4415.658691	13.653809
214861.0938	4999.326868	4403.043945	13.675781
214917.8438	5004.717285	4384.572266	13.687988
214983.3281	4997.112305	4425.458984	13.719727

215049.4089	5006.581055	4431.041504	13.682129
215104.8125	5020.843555	4420.87793	13.675293
215161.0469	5017.61377	4421.794922	13.638672
215218.2813	5021.86084	4448.43457	13.685547
215277.525	5001.825684	4442.631836	13.702637
215342.4531	5005.553711	4455.490234	13.663088
215407.3584	4998.279297	4440.511719	13.724609
215471.7658	5006.184082	4465.548828	13.659668
215532.8094	5016.771484	4456.314841	13.679199
215591.9219	5020.085215	4445.960449	13.686035
215851.9063	5007.366699	4437.507812	13.694338
215718.9844	5002.478027	4445.453613	13.67041
215778.0781	5021.518113	4471.015625	13.666504
215833.6094	5022.875	4439.334473	13.65332
215890.3584	5022.817871	4431.783203	13.680684
215949.8563	4999.825385	4434.65818	13.692383
216013.9313	4994.595215	4452.70459	13.716309
216079.4844	5004.823242	4421.55127	13.696289
216143.5781	4990.595703	4433.915039	13.673828
216200.5158	4985.124623	4432.282227	13.688673
216259.7813	5021.036133	4396.112793	13.676768
216318.8844	5004.144043	4414.87793	13.747559
216383.6406	4999.351074	4442.388648	13.683848
216449.3436	5000.344238	4398.547383	13.697754
216505.5158	5021.340332	4421.125	13.689707
216581.9844	5018.216309	4481.836867	13.683105
216618.7658	4998.616699	4437.881348	13.683594
216682.8125	4998.043457	4405.833594	13.728027
216747.1875	5001.761718	4382.123047	13.681621
216813.4688	4988.063985	4419.362793	13.787596
216871.9375	5018.369629	4408.463867	13.696289
216940.5	5001.012207	4425.179887	13.678711
217007.0825	5004.861818	4432.603027	13.674316
217072.5	4995.795896	4437.484863	13.688965
217130.5313	5018.779297	4458.151855	13.695801
217186.0469	5017.236328	4437.63918	13.687989
217248.6625	5020.270508	4450.240723	13.705586
217308.75	4999.227639	4432.889453	13.687988
217375.8438	5003.899414	4404.311523	13.683105
217441	4995.078125	4469.781738	13.677246
217508.6563	4998.950984	4461.915527	13.688457
217567.7658	5017.222656	4434.483396	13.745117
217625.3125	5023.333984	4446.555176	13.770508
217688.7813	4992.271973	4451.258789	13.677246
217747.8375	5018.712402	4429.825684	13.679199
217807.1875	5020.28125	4469.48582	13.691695
217864.9063	5017.95762	4425.260254	13.689941
217921.1563	4997.219238	4461.48584	13.670898
217991.5469	5008.15918	4416.768555	13.665527
218056.4844	4997.256789	4414.314453	13.685547
218119.1719	4998.119629	4468.423828	13.682598
218187.9063	4999.744141	4445.904297	13.695801

218246.1094	5019.924805	4430.62207	13.656738
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218484.1875	5023.478516	4426.67334	13.725586
218544.2969	4999.87207	4415.448242	13.67827
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218660.4375	5013.455078	4423.519043	13.696242
218718.0781	5019.489746	4406.749023	13.688523
218779.4063	5000.480469	4423.024902	13.683594
218836.5625	5021.885742	4421.865723	13.717773
218896.5781	5005.887207	4446.024932	13.68457
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219011.0938	5018.669118	4417.512207	13.700195
219072.8906	5015.270998	4454.300781	13.656738
219131.8875	5015.810547	4441.124512	13.649414
219188.4063	5019.477051	4440.253418	13.67041
219248.0469	4998.942383	4429.17627	13.694824
219304.1406	5003.383301	4428.583008	13.680176
219360.7344	5019.180664	4428.977539	13.655273
219430.0625	5008.87334	4424.640625	13.599707
219490.3906	5020.247559	4386.256836	13.685059
219559.0469	4992.284434	4435.027832	13.69043
219615.8125	5020.912109	4444.049805	13.714355
219677.7969	5022.255371	4424.539551	13.695801
219748.8125	5009.61084	4413.791504	13.704102
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219936.8906	5024.280273	4446.537598	13.680684
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220227.7813	5023.488258	4444.860352	13.711426
220283.6875	5020.469961	4460.983398	13.669434
220344.2188	5017.967773	4429.432129	13.65818
220404.6719	5020.353027	4405.413574	13.680176
220468.5938	5005.833384	4427.385234	13.67041
220524.0761	5007.52832	4401.758301	13.770996
220587.5825	6002.387207	4455.004883	13.777344
220647.5313	5016.627441	4402.690918	13.772481
220705.2969	5018.541992	4441.640625	13.685059
220762.2031	5006.15332	4444.990234	13.73291
220820.2813	5022.535645	4420.341797	13.654297
220879.125	5017.196777	4448.38084	13.700684
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221046.125	5019.880371	4420.979492	13.681841
221102.5781	5016.427248	4442.062031	13.744629
221162.1094	5013.575684	4435.019531	13.689922
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221274.8125	5021.76123	4434.544531	13.709961

221334.7188	5018.064453	4454.881152	13.64502
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221508.2969	5019.391113	4480.248047	13.700684
221562.0313	5020.473145	4418.444824	13.687012
221630.375	4997.488797	4438.810059	13.656738
221690.8126	4997.910158	4419.29834	13.674805
221761.25	5005.016825	4400.987773	13.687012
221827.5313	4995.857422	4458.594236	13.63623
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221952.8906	4998.303223	4422.589844	13.696242
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222128.375	5018.855273	4437.177734	13.681885
222186.8375	5015.468282	4465.123047	13.656738
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222300.0625	5016.86748	4453.688965	13.691406
222359.4063	4988.208008	4477.429189	13.676758
222419.1563	5020.010742	4472.274902	13.655762
222477.2969	5019.430176	4470.10496	13.668945
222534.1094	5019.57959	4453.890625	13.688477
222590.1094	5019.210449	4447.380659	13.705566
222651.0938	5018.096191	4426.688477	13.65918
222708.3906	5017.012207	4442.702148	13.688965
222774.3281	4997.079102	4448.991211	13.692871
222831.8219	5011.685059	4408.516113	13.680178
222888.8906	5013.57373	4418.782227	13.679687
222945.9531	5017.160884	4439.560547	13.699707
223005.9063	5018.160156	4421.157715	13.64209
223063.8225	5023.075884	4468.248535	13.671387
223121.8906	5021.019043	4439.245117	13.680178
223180.3125	5017.548828	4448.20186	13.706543
223238.4375	5017.510742	4430.970703	13.681152
223298.3594	5017.639116	4447.82783	13.647481
223356.9844	5007.888648	4411.023826	13.6875
223416.6594	5020.376465	4400.611816	13.654785
223478.4375	5021.557817	4405.712402	13.744141
223534.7969	5019.384277	4410.708008	13.657715
223590.8126	4996.139116	4398.399902	13.754395
223648.5625	5015.781738	4402.85625	13.666992
223706.6563	5017.798828	4413.362793	13.731934
223765.7813	5021.464355	4427.739748	13.707031
223832.25	4994.733887	4460.898926	13.793945
223893.8125	5017.328613	4454.22998	13.692383
223955.1563	5012.889116	4441.432617	13.766621
224013.1719	5015.88623	4419.420695	13.744141
224073.9844	5017.522949	4455.964663	13.818359
224129.6094	5018.877734	4436.983887	13.829102
224188.0469	4991.885527	4430.854785	13.806152
224259.4219	5016.320312	4418.807129	13.84668
224316.9063	5018.583984	4453.960449	13.791018
224373.8125	5017.939941	4463.845703	13.654297

224432.75	5018.649802	4424.182617	13.738281
224490.5158	5018.825488	4432.276855	13.684082
224546.7188	5011.780742	4435.598145	13.696289
224602.3594	5013.444824	4402.444624	13.644531
224658.9844	5018.914082	4375.51418	13.721191
224718.4219	5015.778809	4401.873535	13.663105
224777.0938	5018.129395	4423.70168	13.677734
224833	5018.929198	4442.202637	13.651387
224891.5469	5017.446242	4455.821777	13.662109
224947.8219	5015.857227	4443.106445	13.71582
225009.7031	5012.577148	4413.020996	13.802248
225065.5	5018.501953	4444.082031	13.714844
225127.2813	5018.086406	4454.519043	13.706566
225184.6563	5018.754883	4428.138672	13.76123
225232.6563	4987.916504	4436.962891	13.695801
225308.8125	5020.87207	4442.755858	13.706543
225365.8406	5015.333496	4423.712691	13.673826
225428.1719	5018.720215	4434.776367	13.788574
225484.5781	5019.618164	4426.416016	13.664551
225544.0469	5017.870605	4415.869822	13.671387
225603.5781	5018.086379	4480.020508	13.715332
225659.4688	5018.74707	4448.000488	13.735352
225716.0313	5021.694336	4431.301758	13.752441
225775.7969	5020.16748	4424.12793	13.768531
225835.0625	5018.201172	4404.623047	13.680664
225891.8583	5016.225596	4457.205586	13.706055
225953.125	5015.067871	4452.850586	13.777344
226009.25	5013.11377	4437.25293	13.847626
226065.9531	5017.84082	4439.162598	13.852051
226123.7813	5019.979004	4420.483887	13.805664
226184.8281	5017.893066	4433.651367	13.703125
226243.8281	5018.501953	4444.612793	13.651367
226300.6875	5018.457031	4427.405273	13.804199
226361.2031	5015.256788	4461.33252	13.686036
226421.4063	5004.810058	4452.619629	13.691406
226480.5938	5015.943848	4441.755371	13.808105
226537.625	5018.204102	4452.000977	13.757324
226594.4063	5018.005859	4457.135254	13.677248
226650.5625	5018.148926	4423.885254	13.669622
226707.2858	5015.970215	4443.730469	13.748047
226765.2188	5017.25	4438.247559	13.708496
226821.0313	5020.629883	4427.759768	13.754863
226879.3125	5018.57688	4428.38915	13.685059
226936.1406	5018.168016	4398.706055	13.706055
226992.3125	5017.737305	4418.810059	13.659888
227048.5313	5018.123047	4422.593262	13.681641
227107.0158	5017.565818	4437.970703	13.632812
227165.3125	5021.00293	4436.921875	13.722656
227227.2969	5019.240723	4435.849809	13.708984
227286.0625	5013.10498	4423.680176	13.662109
227343.4219	5018.086426	4422.984863	13.708496
227399.9375	5017.904785	4408.770508	13.836428

227458.2858	5017.828806	4450.280742	13.884062
227514.875	5018.772461	4445.112305	13.775391
227571.5313	5016.928711	4401.592773	13.721161
227641.0469	4985.385264	4413.497012	13.687012
227687.3125	5011.398355	4437.538086	13.674316
227757.6875	5015.525879	4433.075684	13.616689
227814.5938	5017.228516	4421.988023	13.887969
227871.125	5020.272949	4440.149414	13.878711
227928.6875	5004.437988	4473.315916	13.773437
227987.7188	5018.182383	4453.898828	13.888457
228044.4531	5018.166982	4469.77002	13.889434
228100.3125	5019.580332	4423.442871	13.695801
228161.3281	5019.01708	4447.155762	13.694336
228222.1563	5019.908691	4434.390625	13.884551
228279.5156	5017.008789	4415.729482	13.883584
228335.9531	5016.931641	4423.11377	13.885039
228391.7656	5014.961914	4414.48584	13.716332
228448.6719	5016.302734	4426.348145	13.888822
228509.5938	5018.827246	4455.495117	13.703613
228566.7344	5018.088359	4449.538621	13.879199
228622.5625	5015.381818	4446.818852	13.718238
228683.3281	5020.24707	4440.787109	13.876758
228745.5313	5015.707031	4446.59375	13.878223
228805.75	5016.04248	4473.583496	13.706543
228861.2969	5014.633301	4482.619629	13.703813
228917.0938	5015.797852	4421.926758	13.767578
228979.1094	5014.183584	4420.871875	13.858738
229041.0469	5018.256636	4425.338867	13.691406
229102.1563	5012.028809	4434.868629	13.8875
229158.825	5010.890625	4417.311523	13.874316
229215.4083	5018.755371	4389.800781	13.712402
229276.2188	5014.32373	4405.855957	13.645506
229336.9375	5018.867888	4424.181841	13.858398
229392.8125	5014.265137	4441.694238	13.672363
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229625.3906	5015.791016	4481.152344	13.652344
229682.625	5017.048316	4399.159668	13.709473
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229805.0625	5016.617876	4400.617676	13.72998
229861.8094	5019.890918	4394.05127	13.742187
229919.0938	5017.10498	4424.910922	13.898242
229975.8594	5014.023437	4421.763672	13.688965
230031.3281	5011.568359	4423.671387	13.786133
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230148.0156	5018.430178	4409.134766	13.744141
230202.7656	5019.90332	4423.680355	13.680158
230259.0156	5016.071777	4427.779785	13.70459
230320.3438	5018.455078	4455.379683	13.677246
230377.5469	5013.85332	4440.253418	13.82959
230435.2031	5013.871582	4438.491211	13.750977

230491.1094	5012.102539	4472.879395	13.678223
230547.375	5016.77002	4445.366719	13.714844
230608.2813	5016.769531	4422.648826	13.730489
230665.1875	5016.724609	4413.209473	13.696289
230721.6719	5011.813477	4431.18457	13.696289
230779.4063	5016.439453	4407.204102	13.740234
230835.7168	5017.994629	4398.583496	13.663066
230893.1719	5015.800781	4449.998094	13.684551
230951.1875	5016.183584	4448.839255	13.772949
231007.7658	5014.839118	4481.101582	13.708961
231065.4688	5017.479004	4460.044434	13.696289
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231179.7031	5017.047852	4437.648926	13.815818
231237.75	5013.925283	4423.770996	13.708961
231293.7344	5015.842578	4432.918016	13.783672
231349.7188	5013.804687	4432.616211	13.694336
231406.6406	5012.350586	4433.146973	13.758789
231463.0313	5013.561035	4435.434082	13.683105
231520.0625	5017.97168	4427.695801	13.691895
231580.6563	5018.385742	4482.981445	13.706543
231638.8584	5017.923828	4431.584727	13.887969
231684.825	5016.498535	4428.586914	13.688941
231751.5	5012.125	4439.438965	13.685059
231807.9063	5017.132812	4428.790039	13.728027
231864.6313	5014.39209	4426.368852	13.677248
231919.9688	5018.388672	4424.316895	13.759768
231976.0158	5016.827148	4418.288574	13.773437
232032.8281	5015.796387	4417.54248	13.666035
232091.2813	5012.713667	4382.393088	13.724121
232148.625	5006.587858	4417.758301	13.828613
232205	5011.447266	4449.285625	13.70752
232262.5469	5012.48875	4453.284688	13.748094
232323.5168	5017.24707	4437.330365	13.766602
232379.6094	5015.174318	4427.003418	13.716309
232436.8125	5016.905273	4441.562968	13.671875
232492.8563	5016.40625	4445.408203	13.743652
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232614.5	5015.631836	4411.483398	13.691895
232671.4063	5017.61084	4410.074219	13.67627
232727.75	5018.010742	4427.037109	13.688219
232784.8906	5016.845996	4458.929199	13.714355
232842.2344	5015.961914	4475.877441	13.688941
232903.5156	5018.213887	4448.324707	13.679199
232964.7813	5013.873145	4398.940918	13.651855
233021.5156	5016.5625	4441.137207	13.697754
233079.3438	5014.76123	4403.946242	13.791016
233138.6875	5013.321777	4392.272461	13.704102
233193.3908	5013.389629	4444.629434	13.67334
233250.3438	5015.287363	4440.616164	13.783203
233308.0781	5014.691895	4417.585918	13.729492
233369.3584	5015.987773	4376.770508	13.728027
233430.5625	5012.014648	4421.251485	13.658691

233488.625	5017.367676	4425.978516	13.73584
233542.8594	5016.880859	4428.926758	13.730957
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233656.75	5012.931152	4416.167227	13.680178
233718.2813	5015.322754	4408.38623	13.831543
233779.2813	5014.28125	4436.473145	13.83252
233835.2856	5013.438477	4414.788621	13.898973
233882.2969	5014.198777	4410.85498	13.818359
233949.8584	5013.849121	4455.387207	13.898242
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234062.8375	5013.138184	4432.533691	13.801758
234118.9688	5013.242676	4444.83823	13.837881
234175.8906	5016.024902	4400.854102	13.79834
234237.7813	5016.958543	4422.912109	13.699707
234295.2188	5016.740234	4377.316895	13.776855
234356.0158	5018.055884	4404.678758	13.833006
234413.5938	5013.002441	4430.587891	13.81543
234469.6406	5010.978516	4462.561523	13.688841
234531.1094	5018.384756	4480.491699	13.893555
234587.7969	5013.489258	4436.817187	13.79834
234643.7188	5018.756346	4434.325195	13.730469
234700.0938	5016.27002	4408.45752	13.736328
234759.5625	5016.770996	4451.313477	13.835448
234817.7856	5016.533691	4405.068406	13.748047
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235001.0938	5007.783184	4462.571777	13.673628
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235120.5781	5013.307617	4449.51416	13.824219
235181.5781	5013.512695	4487.618852	13.750977
235238.2813	5013.856934	4430.889281	13.670698
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235765.2344	5012.192871	4433.983887	13.898926
235821.0156	5012.329102	4439.455568	13.800293
235877.8125	5014.484863	4450.818848	13.909668
235934.25	5017.484863	4420.69873	13.854492
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236109.0913	5016.342773	4425.454102	13.789551
236166.625	5016.264848	4445.576172	13.820312
236227.6875	5014.408203	4480.051758	13.824219
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237091.2188	5014.194824	4475.740723	13.895601
237153.2031	5017.291016	4439.265137	13.716797
237210.3125	5011.288574	4469.001485	13.847168
237271.825	5011.310547	4424.651855	13.893066
237328.0469	5009.484863	4425.486328	13.864748
237389.8125	5014.415039	4418.533691	13.814941
237445.5838	5012.445312	4448.212402	13.763672
237501.7031	5014.888672	4387.888965	13.773828
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238024.5489	5015.878027	4430.107422	13.847856
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238136.8594	5013.428223	4428.762207	13.966543
238193.8594	5012.204102	4408.461426	13.921387
238249.4844	5015.337402	4409.796875	13.753806
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238372.3438	5010.254395	4465.197268	13.803223
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238600.1406	5015.349609	4449.077148	13.891406
238660.3438	5012.172852	4460.183105	13.748535
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239122.2656	5014.673828	4427.88916	13.869629
239177.625	5016.089824	4409.12793	13.89209
239239.1406	5009.348145	4422.528855	13.919434
239295.4844	5013.184551	4405.887695	13.808594
239352.4375	5013.031738	4417.32959	13.857422
239409	5013.279785	4427.409668	13.841309
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240442.0158	5011.824707	4410.788086	13.884277
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240621.1563	5007.652344	4388.902344	13.916504
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241078.0313	5010.947286	4415.081543	13.943359
241134.75	5009.207031	4427.858934	13.715332
241190.5625	5010.955078	4408.087402	13.76123
241247.4888	5011.803223	4424.121582	13.86377
241306.0158	5010.210937	4430.564453	13.87207
241363.875	5013.137695	4379.974121	13.734883
241420.875	5010.814258	4431.293457	13.77002
241477.9063	5008.208008	4421.315918	13.82688
241534.5781	5008.478074	4388.850588	13.697268
241595.3438	5010.675293	4431.979482	13.702148
241652.5781	5005.415039	4433.495805	13.763672
241708.8125	5010.832128	4480.716909	13.67334
241765.8125	5009.828418	4420.882812	13.707031
241821.6406	5013.209961	4414.429199	13.872363
241881.4219	5004.557617	4412.296387	13.717285
241943.5	5003.758301	4425.007324	13.658691
242000.7031	5007.277344	4416.762695	13.661621
242067.8375	5008.907227	4414.119629	13.685547
242114.9063	5008.061035	4405.724121	13.708496
242171.2813	5011.341309	4393.81084	13.675781
242229.1094	5011.26416	4408.738281	13.699707
242290.5313	5005.841602	4448.822754	13.700195
242352.4375	5008.881816	4434.502993	13.701172
242414.125	5005.919434	4458.746094	13.672363
242471.2031	5005.450195	4446.806445	13.703125

242528.7813	5001.239258	4419.350096	13.738328
242582.5791	5004.713887	4441.376853	13.703613
242638.7031	5002.808375	4407.546898	13.725074
242695.3438	4886.094238	4421.524902	13.845896
242751.2031	5001.817383	4437.373535	13.707031
242807.3438	5008.171387	4455.717773	13.887268
242884.5	5011.745117	4425.138184	13.643555
242921.75	5013.321289	4436.82859	13.894338
242978.0469	5015.96582	4398.567871	13.875781
243034.1406	5019.128485	4371.153909	13.717285
243090.7031	5017.214355	4426.198289	13.67627
243147.3806	5009.444398	4398.134277	13.708008
243204.7188	5012.887207	4420.712891	13.844531
243261.0938	5006.549805	4399.384258	13.705078
243318.0158	5012.181621	4403.541016	13.723633
243373.8281	5012.853809	4416.567871	13.705586
243435.75	5010.968282	4414.882812	13.708861
243492.5838	5011.378953	4425.42041	13.89043
243550.4063	5014.385254	4415.387207	13.759766
243611.7656	5013.581055	4427.861228	13.702148
243672.3875	5005.73877	4486.843262	13.71582
243733.9531	5008.14502	4463.075195	13.68673
243791.25	5009.534688	4426.741699	13.884824
243849.0781	5010.145896	4480.807422	13.887012
243905.9531	5011.866868	4450.441695	13.886777
243982.375	5014.877246	4436.775391	13.731934
244022.4688	5009.208008	4408.116211	13.886523
244079.7188	5013.552248	4388.17334	13.868945
244137.2658	5010.132324	4414.426293	13.861621
244194.3594	5010.983398	4388.874512	13.887266
244250.2969	5012.533203	4381.780273	13.868922
244307.6094	5012.888164	4398.383301	13.872852
244363.6563	5008.845703	4401.367187	13.883594
244420.4219	5011.199648	4448.872559	13.677734
244482.2031	5013.379395	4432.128953	13.887989
244539.0825	5011.14208	4435.040039	13.789062
244594.625	5011.392578	4443.600586	13.893848
244651.3684	5013.588644	4423.997659	13.905762
244708.125	5014.268043	4427.625488	13.71875
244764.8438	5013.843088	4425.151367	13.837881
244822.4375	5010.838426	4410.310547	13.873828
244879.4688	5013.014116	4419.94043	13.708543
244938.125	5011.170898	4448.499023	13.744629
244997.5875	5010.822754	4431.54248	13.703125
245053.9688	5009.010742	4428.29834	13.704102
245111.4844	5009.314453	4410.134277	13.751953
245172.4219	5009.734375	4437.506371	13.713887
245231.4375	5010.497559	4453.740234	13.889922
245287.4844	5010.775391	4420.690918	13.899707
245348.6094	5012.254385	4435.286133	13.870687
245406.9375	5011.131348	4435.531836	13.878758
245464.3281	5008.849809	4406.955586	13.834961

245520.5469	5011.538551	4460.818848	13.683594
245577.5	5015.834277	4458.991899	13.68457
245638.7856	5009.480957	4452.711914	13.682617
245695.5625	5015.272481	4420.25416	13.684082
245751.1719	5012.586895	4433.616211	13.746582
245806.6875	5010.786821	4430.224121	13.712402
245863.5	5008.668848	4432.106398	13.67041
245919.4063	5009.274902	4443.581523	13.737793
245975.5625	5010.89043	4422.619629	13.658332
246031.1719	5014.024973	4431.583496	13.660545
246067.2856	5012.251953	4436.502441	13.679189
246144.4219	5012.576813	4432.715332	13.701172
246201.7655	5015.59082	4415.867187	13.68457
246258.1719	5010.382324	4409.882793	13.691895
246315.8906	5009.089121	4380.17627	13.682617
246377.4375	5007.380137	4418.598145	13.67041
246434.7968	5011.136184	4424.405273	13.682109
246490.4375	5005.85498	4418.598121	13.786113
246547.9219	5010.52832	4412.270995	13.677734
246605.8375	5009.100098	4415.770508	13.780254
246668.625	5009.96291	4413.331055	13.693359
246728.2813	5012.061523	4432.488023	13.748535
246784.6563	5015.633301	4445.742678	13.754883
246842.2856	5015.068848	4428.115723	13.799316
246898.5156	5015.80498	4421.467773	13.887461
246960.0625	5013.815234	4429.340882	13.884277
247018.4375	5018.17334	4434.551758	13.881328
247074.8719	5017.177734	4484.008789	13.826172
247131.1406	5010.057617	4416.160158	13.79834
247188.2188	5012.477051	4451.480837	13.710937
247243.7344	5010.448219	4415.058584	13.754883
247305.5156	5013.280254	4424.229004	13.652832
247368.2188	5008.680845	4426.795898	13.848633
247423.125	5011.557129	4453.108887	13.685059
247484.1406	5011.973633	4448.587402	13.72168
247539.8125	5011.586426	4399.861816	13.780742
247601.5	5011.740234	4426.929199	13.787109
247658.4688	5011.11084	4395.078613	13.842285
247715.125	5011.385723	4417.458055	13.832031
247772.0625	5009.411133	4392.585449	13.818848
247832.1563	5013.312012	4425.783184	13.787109
247893.125	5010.253418	4418.080059	13.816406
247949.0156	5007.535645	4420.735392	13.765625
248005.4688	5008.246582	4417.843068	13.828102
248066.4375	5008.741889	4414.295898	13.828613
248127.6563	5011.217285	4417.725098	13.883301
248184.1875	5011.837012	4423.634277	13.893555
248242.5781	5012.878418	4424.038133	13.929887
248298.7188	5013.060059	4441.302734	13.788821
248355.4375	5011.262895	4426.833496	13.780762
248413.9844	5011.067871	4387.716797	13.79248
248475.3438	5008.814746	4416.697266	13.904297

248531.5	5006.827637	4412.854785	13.922363
248693	5006.723833	4436.012207	13.838814
248854.1094	5013.015137	4393.881328	13.852051
248711.375	5012.794434	4423.455588	13.886898
248768.8125	5011.783872	4418.780254	13.887481
248826.3125	5015.520508	4397.596191	13.820801
248883.825	5011.558105	4428.490723	13.924316
248941.8125	5010.46875	4427.868892	13.899414
249003.6875	5011.256836	4413.13916	13.916504
249059.75	5010.906738	4388.330568	13.775879
249120.5313	5008.554199	4418.104492	13.797363
249181.2188	5008.065937	4419.361348	13.870117
249238	5006.914062	4394.208543	13.904785
249293.2969	5008.415527	4411.161621	13.872207
249349.0313	5007.598633	4428.882812	13.893555
249410.4063	5010.469238	4435.103516	13.783203
249471.1563	5011.171387	4436.573773	13.88916
249528.0625	5011.955078	4403.196312	13.854004
249588.8594	5015.977051	4434.52002	13.902832
249650.375	5015.625977	4412.280782	13.853516
249708	5013.232422	4418.791504	13.89209
249767.5781	5012.313477	4388.260742	13.918457
249825.0625	5009.836426	4428.994141	13.887678
249881.0625	5009.634277	4429.95752	13.824218
249938.9219	5011.33252	4417.825684	13.875488
249997.9631	5012.099121	4402.521484	13.901855
250058.4531	5011.804687	4417.812012	13.839941
250114.7188	5011.016602	4427.447286	13.938035
250170.6719	5008.405273	4449.706543	13.910158
250228.1094	5011.26709	4457.847188	13.948242
250285.0489	5007.954102	4453.849121	13.929199
250341.125	5009.712691	4425.641113	13.822268
250398.4688	5012.507324	4430.763672	13.89502
250457.7969	5010.706984	4405.132812	13.918845
250516.0625	5012.633789	4414.583984	13.919634
250571.3438	5013.36064	4437.434082	13.916016
250633	5013.54248	4409.364258	13.930684
250689.375	5011.943848	4430.736816	13.91748
250746.8125	5011.811328	4405.78125	13.902832
250803.25	5012.031738	4428.407227	13.875
250859.5469	5014.010742	4449.257324	13.895898
250916.7188	5008.203125	4423.782227	13.914551
250972.6563	5009.589355	4391.950684	13.9375
251030.0625	5008.54834	4414.342773	13.829687
251086.2656	5006.606445	4498.291504	13.907715
251143.8063	5005.572266	4431.810059	13.842285
251199.7031	5005.437012	4435.606445	13.929199
251267.1563	5005.557617	4443.576172	13.86377
251315.2344	5010.657227	4430.999023	13.818848
251372.7344	5008.078125	4438.306152	13.917988
251430.1675	5011.675781	4461.853516	13.823242
251487.1719	5014.765625	4431.976562	13.791016

251544.0313	5010.751953	4426.094238	13.896973
251601.26	5015.211914	4430.253418	13.922852
251682.5625	5010.408691	4440.772461	13.880859
251719.0489	5009.259768	4408.848145	13.912109
251774.7344	5009.468797	4438.901855	13.911621
261830.8594	5008.714355	4432.479004	13.922363
251887.6719	5007.948289	4444.932129	13.819922
251943.8438	4999.428711	4408.161133	13.927248
252001.1563	5001.587891	4424.649414	13.929199
252058.3438	5005.738422	4420.887207	13.924805
252114.0938	5006.293457	4414.682128	13.923828
252170.7188	5008.918016	4420.845215	13.900391
252227.2031	5011.991698	4438.943848	13.935059
252288.4375	5016.573242	4417.033691	13.923628
252344.6	5016.092773	4434.072754	13.931641
252402.2989	5013.781738	4467.177734	13.914651
252458.6719	5014.717285	4466.319336	13.939453
252515.0938	5013.26123	4428.949707	13.941895
252570.7344	5013.993164	4415.946289	13.932817
252628.9063	5013.788828	4426.802651	13.915527
252685.8125	5007.356445	4435.10499	13.938477
252743.0156	5006.747559	4460.281738	13.94873
252803.4844	5004.492187	4433.295898	13.926223
252861.8906	5004.846191	4438.68467	13.942671
252918	5008.482422	4425.79834	13.90918
252975.1875	5007.582031	4441.035166	13.916016
253033.0825	5010.189941	4468.114258	13.940918
253089.7813	5012.516113	4439.216797	13.938477
253148.1875	5014.545888	4395.944336	13.919922
253202.6406	5012.291992	4375.662109	13.836035
253259.4688	5011.680645	4421.845703	13.874023
253315.8125	5012.879199	4400.168504	13.942871
253371.7031	5012.870117	4404.742878	13.947754
253433.3281	5010.719727	4453.170698	13.94873
253489.1563	5009.472188	4403.849121	13.876853
253546.2344	5008.010742	4422.07668	13.958473
253601.0313	5008.513184	4439.454102	13.92334
253659.3438	5008.031738	4464.001465	13.927734
253717.5625	5005.751953	4449.033691	13.925253
253774.4844	5007.258301	4432.959473	13.921387
253835.9531	5006.185273	4444.245805	13.929199
253893.1563	5007.817676	4414.360352	13.94873
253949.9375	5007.621084	4423.825781	13.910156
254008.9375	5013.27002	4431.557129	13.891113
254063.3594	5010.294922	4391.006301	13.927734
254121.0781	5012.668184	4421.271484	13.94043
254182.1563	5012.448707	4418.114258	13.92041
254238.5156	5012.384277	4429.160645	13.944824
254294.8875	5011.774414	4430.544922	13.914551
254350.9219	5014.459473	4438.108398	13.918845
254407.0488	5011.888184	4448.28416	13.921875
254462.9219	5013.853027	4449.15918	13.913574

254520.25	5011.401387	4424.132324	13.912598
254578.25	5012.473145	4433.901886	13.907715
254632.825	5012.778809	4443.577140	13.928223
254688.6719	5008.430684	4444.845215	13.967265
254745.6583	5010.272949	4398.12793	13.922363
254806.8594	5012.60781	4438.503806	13.932129
254858.0938	5007.120803	4386.327637	13.935547
254918.6719	5007.166018	4440.798828	13.921875
254986.1406	5005.972856	4421.773437	13.889648
255036.0938	5008.063477	4454	13.912109
255096.8594	5005.864746	4375.815723	13.905762
255158.6875	5009.508789	4444.891602	13.911133
255216.6719	5010.294922	4457.91748	13.929199
255274.2031	5008.78541	4438.094298	13.900381
255330.2344	5010.971181	4449.109863	13.895996
255387.1406	5008.854004	4448.971181	13.839453
255443.3125	5012.648973	4450.246582	13.913574
255506.6719	5010.788574	4478.612793	13.932617
255562.1094	5012.796387	4453.880371	13.907227
255617.8563	5010.797363	4413.844236	13.916016
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255734.6281	5012.862793	4436.124023	13.90825
255795.3281	5008.378806	4429.953813	13.933594
255850.8594	5006.730957	4479.665527	13.910645
255907	5005.610742	4429.680884	13.938941
255963.3438	5006.397461	4467.308594	13.940918
256024.5313	5008.269043	4421.155273	13.899414
256085.375	5002.279785	4423.459473	13.929687
256145.7031	5004.084238	4410.530273	13.835837
256201.1875	5007.549805	4451.475586	13.947754
256262.4219	5006.782207	4431.216309	13.90825
256323.7969	5008.211914	4443.844727	13.904785
256379.9844	5007.094727	4402.983184	13.916892
256436.3125	5004.36377	4408.505371	13.943359
256496.8594	5008.996094	4410.021484	13.914062
256554.3594	5007.257812	4377.885547	13.937968
256614.9688	5012.284888	4418.61084	13.892578
256672.6875	5015.814941	4393.009277	13.946289
256730.5781	5019.863281	4410.787698	13.918457
256791.3438	4884.541016	4383.520506	13.916504
256847.5825	5017.363281	4433.005371	13.880137
256894.4688	5012.445801	4443.602539	13.924805
256955.25	5008.39502	4426.180176	13.933105
257022.2969	5011.488328	4450.566408	13.93457
257078.8219	5011.77002	4414.602051	13.922363
257139.2344	5009.829102	4431.291992	13.907715
257196.4063	5013.130859	4428.813574	13.922363
257253.5469	5012.039844	4423.483887	13.935547
257309.4688	5010.523437	4421.239746	13.911133
257366.6406	5010.270508	4437.706496	13.935547
257424.3125	5010.586914	4405.32373	13.888672
257481.9688	5010.724121	4432.362812	13.93457

257542.3125	5008.096191	4431.348145	13.875
257602.6094	5007.800086	4430.900381	13.850684
257663.7344	5008.896902	4380.05957	13.922652
257721.1583	5005.882812	4404.842285	13.919822
257783.2031	5007.811328	4398.296367	13.834082
257838.9219	5010.751465	4446.73291	13.836035
257897.0625	5012.402344	4411.789605	13.92334
257953.9063	5012.821582	4427.12793	13.971191
258011.0838	5013.647949	4437.452637	13.931152
258072.7813	5012.487558	4425.349609	13.906738
258130.0625	5010.814453	4426.405273	13.924916
258191.4219	5013.343262	4438.29248	13.910645
258247.8094	5013.222168	4424.191406	13.931641
258308.9375	5011.412598	4374.436477	13.902344
258366.1094	5012.255859	4412.190918	13.946242
258423.7656	5012.442383	4432.836814	13.825781
258480.6563	5010.780551	4431.115234	13.918457
258537.1875	5012.013872	4388.715332	13.890625
258595.0781	5008.168945	4370.657715	13.950196
258655.3156	5008.906738	4412.22188	13.914062
258710.8906	5008.588408	4405.703613	13.94043
258767.5156	5008.916895	4466.859961	13.932617
258824.6563	5008.449219	4408.508301	13.912586
258880.3594	5005.068426	4409.379395	13.932817
258942.5156	5009.516555	4413.633984	13.906691
258998.8906	5007.691406	4387.884748	13.95166
259054.5781	5007.145896	4428.528809	13.887207
259111.1875	5008.034668	4421.08082	13.846777
259168.7856	5011.881838	4482.64209	13.908691
259224.6719	5009.801758	4423.139648	13.925781
259280.6563	5008.803518	4432.433105	13.926758
259342.3906	5010.135254	4440.074707	13.93457
259403.375	5009.937968	4453.362783	13.929687
259460.1875	5012.950195	4420.991689	13.931152
259517.1094	5011.083985	4426.196289	13.918845
259577.4375	5012.797363	4430.285156	13.946242
259634.3125	5008.81543	4437.810059	13.921387
259691.2656	5008.647949	4418.597168	13.93457
259752.7813	5005.226562	4419.014848	13.937988
259813	5007.191885	4411.977539	13.943848
259889.0156	5008.948242	4398.985352	13.839453
259942.7168	5008.372559	4392.962891	13.878418
259998.8125	5008.545898	4415.702148	13.90625
260037.5469	5011.206543	4412.511719	13.948219
260093.2031	5010.55127	4431.134788	13.902832
260149.6719	5012.09668	4424.035158	13.925293
260205.3594	5008.290527	4416.826172	13.90918
260262.2168	5005.125488	4447.443848	13.930664
260318.5156	5005.986309	4453.10498	13.92041
260375.6563	5008.652632	4426.842773	13.946777
260432.0938	5008.781738	4429.242187	13.922363
260490.5313	5008.38916	4426.962891	13.912109

260547.0781	5009.219238	4449.96875	13.967285
260603.9219	5008.923826	4443.749512	13.945801
260665.2969	5011.783691	4428.689941	13.903809
260721.5719	5013.612305	4417.622559	13.862793
260778.0781	5009.509768	4419.380371	13.980837
260834.1406	5011.879492	4424.544434	13.939453
260893.9531	5011.438035	4443.295898	13.881348
260950.1563	5014.097656	4409.646973	13.900391
261007.2188	5011.890176	4381.365234	13.905762
261063.7968	5010.282695	4383.985234	13.922652
261120.4531	5008.523826	4417.966707	13.968486
261178.5313	5005.30127	4425.712891	13.918945
261233.4375	5002.391602	4415.602539	13.946289
261290.5625	5000.141113	4410.611523	13.918457
261346.8094	5006.165527	4424.825884	13.835547
261402.4219	5005.350098	4396.11377	13.918457
261459.0781	5007.518066	4435.501465	13.828223
261514.8875	5007.632612	4446.195801	13.806738
261575.5469	5007.432817	4440.000977	13.910645
261633.26	5007.528788	4472.629297	13.912598
261694.7813	5012.825195	4413.188965	13.925781
261754.5625	5012.08643	4407.436035	13.927246
261811.25	5014.002441	4387.606504	13.942383
261872.2656	5011.535845	4423.881113	13.811133
261933.75	5013.637207	4424.612793	13.918457
261993.8125	5014.393555	4378.805762	13.947268
262050.9844	5008.181152	4398.599809	13.888223
262108.6406	5010.906668	4397.303223	13.911621
262164.8438	5013.918945	4427.969238	13.945312
262225.6875	5008.472656	4457.623535	13.840918
262288.3125	5008.038574	4447.870605	13.907227
262343.2813	5009.821777	4454.663281	13.92627
262399.4688	5006.943848	4425.518068	13.833594
262456.25	5007.016113	4409.683301	13.8111821
262513.0825	5008.585449	4411.581055	13.828711
262569	5010.141113	4419.745605	13.893555
262624.9688	5007.082031	4396.600586	13.914062
262681.0313	5010.099121	4379.041992	13.892578
262738.8563	5011.495117	4428.777344	13.906738
262795.8225	5014.700884	4432.238281	13.938477
262858.375	5013.02002	4420.481934	13.954102
262917.75	5013.326125	4432.07168	13.938477
262978.3125	5013.408203	4410.777832	13.922363
263035.5313	5016.046875	4389.719727	13.929199
263096.8438	5011.511719	4406.317871	13.950684
263155.75	5010.666762	4442.204102	13.929199
263211.9688	5009.942871	4438.445312	13.829687
263288.6225	5004.685312	4410.8125	13.87793
263328.4063	5004.858445	4426.352539	13.935059
263388.9688	5008.491211	4427.699359	13.972656
263445.8125	5011.281738	4407.043457	13.893555
263501.8225	5011.708961	4412.842285	13.824707

263557.75	5011.770508	4397.552246	13.906203
263619.6675	5009.05332	4440.015625	13.891602
263675.2813	5010.881838	4432.882324	13.847856
263736.7188	5010.095215	4397.843262	13.864258
263792.9688	5008.622559	4413.366699	13.884277
263848.7188	5007.58688	4425.174318	13.829687
263904.5313	5005.587891	4421.916504	13.938965
263958.125	5007.862832	4408.345703	13.821288
264027.4375	5007.222656	4415.777344	13.919434
264084.0938	5007.706078	4439.572266	13.880859
264139.5938	5005.888018	4442.55127	13.876465
264195.375	5005.780782	4390.440918	13.88623
264256.125	5006.897754	4442.478518	13.851074
264312.875	5006.671875	4422.875977	13.70459
264368.875	5008.871875	4438.516802	13.914551
264424.5	5007.005371	4452.01418	13.915039
264482.4688	5008.257324	4437.291016	13.939453
264543.375	5009.055178	4425.91748	13.803223
264598.375	5008.34888	4487.771973	13.879883
264656.75	5004.978518	4454.353827	13.895508
264712.9688	5005.744629	4470.636742	13.946312
264769.0625	5007.846484	4436.497559	13.917989
264826.5313	5004.331543	4453.597856	13.884277
264882.8438	5008.771973	4423.444824	13.878418
264938.5313	5006.35791	4424.720215	13.722656
264996.8125	5008.543457	4403.358398	13.805684
265052.9688	5007.547363	4400.312012	13.863281
265109.8438	5009.281719	4398.591797	13.728027
265171.5938	5008.788066	4398.205078	13.822754
265228	5012.374023	4384.25	13.829687
265285.2188	5011.685058	4381.341797	13.834082
265343.7813	5009.256838	4358.025391	13.930176
265401.2188	5013.818457	4403.888477	13.757812
265457.4375	5011.992878	4429.180845	13.807129
265519.7813	5014.333496	4425.353518	13.810547
265581.9375	5009.774414	4437.855782	13.878908
265637.3125	5012.48877	4417.167989	13.827148
265684.5	5003.786133	4387.42827	13.733887
265751.4375	5008.032715	4406.899902	13.864258
265810.2188	5007.856738	4394.307129	13.865039
265888.5	5007.90918	4422.9375	13.856445
265922.75	5005.279785	4451.352051	13.957031
265979.2813	5008.202637	4447.272481	13.824318
266035.5	5007.668457	4421.916504	13.867676
266095.7188	5001.265625	4429.649902	13.936523
266152.5313	5004.397461	4408.861328	13.86377
266214.125	5000.542969	4464.311035	13.783203
266270	5002.503908	4457.8125	13.872852
266328.6563	5005.047363	4415.777927	13.85498
266382.5313	5006.879395	4442.403809	13.933594
266441.0625	4996.508789	4401.345703	13.864258
266502.75	5002.910645	4404.814746	13.732422