

Outer Harbor Mooring Area
 CLE Engineering, Inc.
 3/28/2011
 MA State Plane NAD83 Mainland, Survey Feet

Mooring Number	Latitude (N)	Longitude (W)	Northing	Easting	Swing Radius	Boat Length	Chain + Pennant
	Degrees Dec-Min	Degrees Dec-Min					
400	42 15.9399591	70 53.7922643	2922413.713	819508.394	85	35	50
401	42 15.9472579	70 53.7742610	2922458.617	819589.296	85	35	50
402	42 15.9530911	70 53.7522507	2922494.748	819688.337	100	35	65
403	42 15.9598583	70 53.7257711	2922536.694	819807.499	120	50	70
404	42 15.9284956	70 53.7785848	2922344.527	819570.597	85	35	50
405	42 15.9358547	70 53.7606100	2922389.796	819651.368	85	35	50
406	42 15.9389980	70 53.7376665	2922409.62	819754.735	100	35	65
407	42 15.9422911	70 53.7119069	2922430.444	819870.799	115	45	70
408	42 15.9160232	70 53.7667270	2922269.154	819624.626	85	35	50
409	42 15.9234274	70 53.7488174	2922314.696	819705.101	85	35	50
410	42 15.8871177	70 53.7702032	2922093.487	819610.187	85	35	50
411	42 15.9024449	70 53.7575108	2922186.982	819666.786	85	35	50
412	42 15.9098565	70 53.7395813	2922232.569	819747.351	85	35	50
413	42 15.9238799	70 53.7251001	2922318.202	819812.075	100	35	65
414	42 15.8729778	70 53.7624761	2922007.855	819645.654	85	35	50
415	42 15.8883415	70 53.7497681	2922101.572	819702.322	85	35	50
416	42 15.8956900	70 53.7318103	2922146.777	819783.017	85	35	50
417	42 15.9079593	70 53.7147120	2922221.841	819859.623	100	35	65
418	42 15.9245271	70 53.6992301	2922322.961	819928.751	115	45	70
419	42 15.8592479	70 53.7535979	2921924.751	819686.296	85	35	50
420	42 15.8742335	70 53.7420422	2922016.135	819737.782	85	35	50
421	42 15.8815962	70 53.7240523	2922061.427	819818.622	85	35	50
422	42 15.8918801	70 53.7047465	2922124.504	819905.272	100	35	65
423	42 15.9067648	70 53.6865520	2922215.488	819986.71	115	45	70
424	42 15.8466905	70 53.7419942	2921848.855	819739.184	85	35	50
425	42 15.8604865	70 53.7331621	2921932.927	819778.434	85	35	50
426	42 15.8678320	70 53.7152023	2921978.114	819859.139	85	35	50
427	42 15.8759577	70 53.6943205	2922028.133	819952.992	100	35	65
428	42 15.8890008	70 53.6738755	2922108.004	820044.662	115	45	70
429	42 15.8343867	70 53.7298494	2921774.517	819794.502	85	35	50
430	42 15.8481414	70 53.7210173	2921858.337	819833.754	85	35	50
431	42 15.8555418	70 53.7030246	2921903.86	819914.605	85	35	50
432	42 15.8607239	70 53.6837373	2921935.95	820001.392	85	35	50
433	42 15.8712385	70 53.6611978	2922000.532	820102.62	115	45	70
434	42 15.8357780	70 53.7090489	2921783.632	819888.279	85	35	50
435	42 15.8431891	70 53.6910495	2921829.219	819969.16	85	35	50
436	42 15.8483951	70 53.6717361	2921861.456	820056.064	85	35	50
437	42 15.8538055	70 53.6472471	2921895.1	820166.307	110	45	65
438	42 15.8232891	70 53.6973148	2921708.156	819941.753	85	35	50
439	42 15.8306476	70 53.6793619	2921753.422	820022.427	85	35	50
440	42 15.8358715	70 53.6600265	2921785.769	820109.429	85	35	50
441	42 15.8165993	70 53.6713745	2921668.357	820059.066	85	35	50
442	42 15.8218825	70 53.6519172	2921701.067	820146.616	85	35	50
443	42 15.8367158	70 53.6351125	2921791.695	820221.787	110	45	65
444	42 15.8079822	70 53.6435455	2921616.912	820184.983	85	35	50
445	42 15.8196262	70 53.6229782	2921688.291	820277.266	110	45	65
446	42 15.8025365	70 53.6108438	2921584.887	820332.746	110	45	65
447	42 15.9834195	70 53.6547462	2922682.066	820126.886	115	45	70
448	42 15.9971170	70 53.6361682	2922765.853	820210.102	110	45	65
449	42 16.0079948	70 53.6251963	2922832.27	820259.128	75	30	45
450	42 16.0143631	70 53.6090403	2922871.466	820331.734	75	30	45
451	42 16.0207313	70 53.5928840	2922910.661	820404.341	75	30	45
452	42 16.0271762	70 53.5767886	2922950.321	820476.67	75	30	45
453	42 16.0336289	70 53.5605968	2922990.031	820549.433	75	30	45
454	42 15.9655714	70 53.6419560	2922574.076	820185.354	115	45	70
455	42 15.9792259	70 53.6285247	2922657.437	820245.355	95	45	50
456	42 15.9960608	70 53.6163776	2922760.072	820299.425	75	30	45
457	42 16.0024721	70 53.6002188	2922799.529	820372.042	75	30	45
458	42 16.0088403	70 53.5840628	2922838.725	820444.648	75	30	45
459	42 16.0152561	70 53.5679887	2922878.207	820516.882	75	30	45

460	42 16.0217060	70 53.5518236	2922917.9	820589.525	75	30	45
461	42 15.9831787	70 53.6105671	2922682.02	820326.193	75	30	45
462	42 15.9895685	70 53.5943757	2922721.347	820398.958	75	30	45
463	42 15.9959367	70 53.5782198	2922760.543	820471.564	75	30	45
464	42 16.0024116	70 53.5620190	2922800.388	820544.367	75	30	45
465	42 15.9477250	70 53.6291644	2922466.097	820243.829	115	45	70
466	42 15.9642886	70 53.6179506	2922567.055	820293.701	95	45	50
467	42 15.9711847	70 53.6019806	2922609.45	820365.446	75	30	45
468	42 15.9757773	70 53.5857961	2922648.795	820438.18	75	30	45
469	42 15.9839455	70 53.5696401	2922687.99	820510.786	75	30	45
470	42 15.9912863	70 53.5526664	2922733.119	820587.039	60	20	40
471	42 15.9499218	70 53.6065946	2922480.163	820345.55	90	45	45
472	42 15.9592521	70 53.5932203	2922537.259	820405.48	75	30	45
473	42 15.9656076	70 53.5770190	2922576.379	820478.292	75	30	45
474	42 15.9719757	70 53.5608630	2922615.574	820550.898	75	30	45
475	42 15.9802307	70 53.5505501	2922666.042	820597.064	60	20	40
476	42 15.9296616	70 53.6149840	2922356.844	820308.579	120	50	70
477	42 15.9363212	70 53.5950637	2922397.93	820398.155	90	45	45
478	42 15.9473231	70 53.5843566	2922465.093	820445.981	75	30	45
479	42 15.9537086	70 53.5681282	2922504.396	820518.914	75	30	45
480	42 15.9600767	70 53.5519721	2922543.591	820591.521	75	30	45
481	42 15.9698887	70 53.5448403	2922603.413	820623.269	60	20	40
482	42 15.9119112	70 53.5997462	2922249.526	820378.086	130	50	80
483	42 15.9226945	70 53.5835183	2922315.539	820450.827	90	45	45
484	42 15.9351837	70 53.5760846	2922391.63	820483.822	75	30	45
485	42 15.9415887	70 53.5599218	2922431.05	820556.458	75	30	45
486	42 15.9479568	70 53.5437658	2922470.245	820629.065	75	30	45
487	42 15.9608072	70 53.5361205	2922548.537	820662.998	60	20	40
488	42 15.8919267	70 53.5854492	2922128.61	820443.446	130	50	80
489	42 15.9076353	70 53.5760323	2922224.318	820485.249	90	45	45
490	42 15.9244705	70 53.5648647	2922326.924	820534.9	75	30	45
491	42 15.9308653	70 53.5486786	2922366.283	820607.642	75	30	45
492	42 15.9372334	70 53.5325226	2922405.479	820680.249	75	30	45
493	42 15.9511356	70 53.5287325	2922490.035	820696.745	60	20	40
494	42 15.9426956	70 53.5189909	2922439.088	820741.056	60	20	40
495	42 15.9117803	70 53.5582525	2922250.063	820565.278	75	30	45
496	42 15.9181948	70 53.5420850	2922289.541	820637.935	75	30	45
497	42 15.9245629	70 53.5259293	2922328.736	820710.541	75	30	45
498	42 15.9320516	70 53.5145914	2922374.584	820761.364	60	20	40
499	42 15.9402797	70 53.5043257	2922424.887	820807.318	60	20	40
500	42 15.8949150	70 53.5628491	2922147.484	820545.271	90	45	45
501	42 15.9013554	70 53.5465174	2922187.125	820618.668	75	30	45
502	42 15.9078030	70 53.5303060	2922226.805	820691.522	75	30	45
503	42 15.9141710	70 53.5141503	2922266.001	820764.128	75	30	45
504	42 15.9232443	70 53.5054637	2922321.386	820802.922	60	20	40
505	42 15.9314453	70 53.4952678	2922371.523	820848.562	60	20	40
506	42 15.8719139	70 53.5711505	2922007.522	820508.816	130	50	80
507	42 15.8807576	70 53.5526171	2922061.829	820592.042	90	45	45
508	42 15.8892442	70 53.5382361	2922113.834	820656.551	75	30	45
509	42 15.8956331	70 53.5220457	2922153.157	820729.313	75	30	45
510	42 15.9020011	70 53.5058900	2922192.353	820801.919	75	30	45
511	42 15.9135418	70 53.4981149	2922262.695	820836.494	60	20	40
512	42 15.9216650	70 53.4877859	2922312.363	820882.738	60	20	40
513	42 15.9267377	70 53.4744506	2922343.602	820942.676	60	20	40
514	42 15.8522010	70 53.5569346	2921888.253	820573.8	130	45	85
515	42 15.8659734	70 53.5436151	2921972.327	820633.292	95	45	50
516	42 15.8764476	70 53.5319138	2922036.318	820685.626	75	30	45
517	42 15.8828885	70 53.5157340	2922075.957	820758.338	75	30	45
518	42 15.8892565	70 53.4995784	2922115.152	820830.944	75	30	45
519	42 15.9040444	70 53.4902882	2922205.265	820872.213	60	20	40
520	42 15.9121283	70 53.4799213	2922254.696	820918.63	60	20	40
521	42 15.9172943	70 53.4665670	2922286.501	820978.65	60	20	40
522	42 15.8321228	70 53.5426102	2921766.769	820639.29	130	45	85
523	42 15.8517445	70 53.5292634	2921886.369	820698.652	110	45	65
524	42 15.8645866	70 53.5229197	2921964.569	820726.714	75	30	45
525	42 15.8710305	70 53.5066670	2922004.229	820799.755	75	30	45
526	42 15.8773985	70 53.4905111	2922043.425	820872.362	75	30	45

527	42 15.8935566	70 53.4852267	2922141.73	820895.501	60	20	40
528	42 15.9016613	70 53.4748601	2922191.288	820941.916	60	20	40
529	42 15.9068271	70 53.4615060	2922223.092	821001.935	60	20	40
530	42 15.8838449	70 53.4779158	2922082.982	820928.903	60	20	40
531	42 15.8918990	70 53.4675763	2922132.231	820975.198	60	20	40
532	42 15.8970649	70 53.4542222	2922164.037	821035.217	60	20	40
533	42 15.9040454	70 53.4425943	2922206.807	821087.37	60	20	40
534	42 15.8546557	70 53.5103378	2921904.659	820783.904	75	30	45
535	42 15.8611066	70 53.4941733	2921944.358	820856.547	75	30	45
536	42 15.8674745	70 53.4780175	2921983.554	820929.154	75	30	45
537	42 15.8757005	70 53.4676934	2922033.847	820975.372	60	20	40
538	42 15.8837889	70 53.4573911	2922083.303	821021.497	60	20	40
539	42 15.8889549	70 53.4440371	2922115.109	821081.516	60	20	40
540	42 15.8959492	70 53.4324359	2922157.962	821133.548	60	20	40
541	42 15.8351504	70 53.5156606	2921786.023	820760.736	110	45	65
542	42 15.8431856	70 53.5006551	2921835.308	820828.082	75	30	45
543	42 15.8495605	70 53.4844515	2921874.547	820900.905	75	30	45
544	42 15.8559285	70 53.4682957	2921913.742	820973.512	75	30	45
545	42 15.8656255	70 53.4610373	2921972.871	821005.836	60	20	40
546	42 15.8737595	70 53.4508127	2922022.601	821051.609	60	20	40
547	42 15.8789254	70 53.4374587	2922054.407	821111.628	60	20	40
548	42 15.8859197	70 53.4258575	2922097.26	821163.66	60	20	40
549	42 15.8120429	70 53.5282872	2921645.274	820704.774	130	45	85
550	42 15.8183203	70 53.5026736	2921684.224	820820.053	110	45	65
551	42 15.8303962	70 53.4942512	2921757.837	820857.526	75	30	45
552	42 15.8368595	70 53.4780241	2921797.614	820930.451	75	30	45
553	42 15.8432274	70 53.4618686	2921836.81	821003.057	75	30	45
554	42 15.8565583	70 53.4523637	2921918.081	821045.358	60	20	40
555	42 15.8646968	70 53.4420958	2921967.841	821091.326	60	20	40
556	42 15.8698628	70 53.4287416	2921999.646	821151.346	60	20	40
557	42 15.8768570	70 53.4171404	2922042.5	821203.378	60	20	40
558	42 15.8462710	70 53.4466742	2921855.785	821071.471	60	20	40
559	42 15.8543681	70 53.4363110	2921905.296	821117.871	60	20	40
560	42 15.8595340	70 53.4229568	2921937.101	821177.891	60	20	40
561	42 15.8194832	70 53.4833485	2921691.909	820907.184	75	30	45
562	42 15.8257943	70 53.4671640	2921730.76	820979.924	75	30	45
563	42 15.8321622	70 53.4510085	2921769.956	821052.53	75	30	45
564	42 15.8375663	70 53.4373207	2921803.218	821114.045	60	20	40
565	42 15.8456178	70 53.4268998	2921852.455	821160.707	60	20	40
566	42 15.8507838	70 53.4135459	2921884.261	821220.726	60	20	40
567	42 15.7919628	70 53.5139644	2921523.78	820770.258	130	45	85
568	42 15.8012792	70 53.4902959	2921581.124	820876.631	110	45	65
569	42 15.8078808	70 53.4738311	2921621.748	820950.623	75	30	45
570	42 15.8141934	70 53.4575592	2921660.612	821023.757	75	30	45
571	42 15.8205613	70 53.4414035	2921699.807	821096.364	75	30	45
572	42 15.8278992	70 53.4299313	2921744.744	821147.8	60	20	40
573	42 15.8359286	70 53.4194526	2921793.848	821194.724	60	20	40
574	42 15.8410948	70 53.4060985	2921825.655	821254.744	60	20	40
575	42 15.7718828	70 53.4996416	2921402.285	820835.743	130	45	85
576	42 15.7838357	70 53.4801240	2921475.509	820923.276	105	35	70
577	42 15.7947788	70 53.4689928	2921542.329	820973.018	75	30	45
578	42 15.8010324	70 53.4526792	2921580.836	821046.343	75	30	45
579	42 15.8074003	70 53.4365236	2921620.032	821118.95	75	30	45
580	42 15.8171858	70 53.4256199	2921679.815	821167.715	60	20	40
581	42 15.8252152	70 53.4151412	2921728.92	821214.639	60	20	40
582	42 15.8303247	70 53.4017444	2921760.384	821274.854	60	20	40
583	42 15.7826805	70 53.4603197	2921469.13	821012.67	75	30	45
584	42 15.7890609	70 53.4440998	2921508.404	821085.567	75	30	45
585	42 15.7954288	70 53.4279444	2921547.6	821158.173	75	30	45
586	42 15.8066929	70 53.4204632	2921616.254	821191.434	60	20	40
587	42 15.8147224	70 53.4099846	2921665.358	821238.358	60	20	40
588	42 15.8197983	70 53.3966752	2921696.616	821298.18	60	20	40
589	42 15.7517400	70 53.4863046	2921280.378	820896.784	125	45	80
590	42 15.7665426	70 53.4711895	2921370.767	820964.332	105	35	70
591	42 15.7702567	70 53.4528073	2921393.917	821047.1	75	30	45
592	42 15.7766837	70 53.4365790	2921433.474	821120.033	75	30	45
593	42 15.7830515	70 53.4204234	2921472.669	821192.64	75	30	45

594	42 15.7972899	70 53.4123947	2921559.405	821228.242	60	20	40
595	42 15.8052773	70 53.4019167	2921608.254	821275.165	60	20	40
596	42 15.8104399	70 53.3885777	2921640.039	821335.117	60	20	40
597	42 15.7871268	70 53.4059625	2921497.887	821257.701	60	20	40
598	42 15.7952024	70 53.3957268	2921547.264	821303.527	60	20	40
599	42 15.7325108	70 53.4724384	2921164.036	820960.173	125	45	80
600	42 15.7500283	70 53.4599087	2921270.832	821015.94	105	35	70
601	42 15.7580707	70 53.4447839	2921320.164	821083.825	75	30	45
602	42 15.7644219	70 53.4285402	2921359.261	821156.831	75	30	45
603	42 15.7702841	70 53.4152749	2921395.293	821216.421	60	20	40
604	42 15.7762328	70 53.4026319	2921431.83	821273.2	60	20	40
605	42 15.7840421	70 53.3916209	2921479.615	821322.535	60	20	40
606	42 15.7122894	70 53.4630677	2921041.524	821003.325	105	35	70
607	42 15.7341449	70 53.4471876	2921174.775	821074.019	100	35	65
608	42 15.7456937	70 53.4374190	2921245.231	821117.588	75	30	45
609	42 15.7519376	70 53.4211688	2921283.676	821190.628	75	30	45
610	42 15.7650438	70 53.4020682	2921363.892	821276.229	60	20	40
611	42 15.7732290	70 53.3881631	2921414.054	821338.604	60	20	40
612	42 15.6959151	70 53.4512713	2920942.456	821057.254	105	35	70
613	42 15.7172566	70 53.4399587	2921072.437	821107.364	100	35	65
614	42 15.7341406	70 53.4278041	2921175.373	821161.466	75	30	45
615	42 15.7543212	70 53.4056739	2921298.653	821260.428	60	20	40
616	42 15.7620322	70 53.3875976	2921346.069	821341.642	60	20	40
617	42 15.6795408	70 53.4394747	2920843.387	821111.184	105	35	70
618	42 15.7017010	70 53.4285382	2920978.329	821159.562	100	35	65
619	42 15.7118772	70 53.4223305	2921040.334	821187.126	60	20	40
620	42 15.7227905	70 53.4189033	2921106.726	821202.114	60	20	40
621	42 15.7325687	70 53.4117169	2921166.345	821234.11	60	20	40
622	42 15.7433059	70 53.4081741	2921231.671	821249.627	60	20	40
623	42 15.7511853	70 53.3912327	2921280.073	821325.714	60	20	40
624	42 15.6629029	70 53.4289061	2920742.678	821159.586	100	35	65
625	42 15.6861638	70 53.4170848	2920884.333	821211.908	100	35	65
626	42 15.7035852	70 53.4123080	2920990.296	821232.702	60	20	40
627	42 15.7150790	70 53.4080018	2921060.242	821251.63	60	20	40
628	42 15.6465639	70 53.4221470	2920643.662	821190.789	80	20	60
629	42 15.6695296	70 53.4114647	2920783.488	821237.985	80	20	60
630	42 15.6833495	70 53.3997315	2920867.801	821290.319	60	20	40
631	42 15.6935931	70 53.4055935	2920929.826	821263.428	60	20	40
632	42 15.655967	70 53.4062928	2920699.034	821261.923	80	20	60
633	42 15.6715089	70 53.3958373	2920796.013	821308.402	60	20	40
634	42 15.6399933	70 53.4065851	2920604.258	821261.282	65	20	45
635	42 15.6606196	70 53.3924807	2920729.985	821324.018	60	20	40
636	42 15.6278758	70 53.4051391	2920530.709	821268.332	95	30	65
637	42 15.6494693	70 53.3903534	2920662.333	821334.1	65	20	45
638	42 15.6375481	70 53.3906027	2920589.923	821333.493	65	20	45
639	42 15.6257832	70 53.3871587	2920518.58	821349.542	65	20	45
640	42 15.6786764	70 53.5618223	2920834.201	820559.254	51.25	15	36.25
641	42 15.6809662	70 53.5491196	2920848.516	820616.463	51.25	15	36.25
642	42 15.6830059	70 53.5354517	2920861.343	820678.037	56.25	15	41.25
643	42 15.6851834	70 53.5179695	2920875.13	820756.813	76.25	15	61.25
644	42 15.6703298	70 53.5550833	2920783.724	820590.018	51.25	15	36.25
645	42 15.6726789	70 53.5423057	2920798.402	820647.562	51.25	15	36.25
646	42 15.6738957	70 53.5285458	2920806.235	820709.587	56.25	15	41.25
647	42 15.6621416	70 53.5622845	2920733.762	820557.884	51.25	15	36.25
648	42 15.6616528	70 53.5492569	2920731.212	820616.679	51.25	15	36.25
649	42 15.6640350	70 53.5364484	2920746.092	820674.361	51.25	15	36.25
650	42 15.6643508	70 53.5234096	2920748.429	820733.172	51.25	15	36.25
651	42 15.6730239	70 53.5092640	2920801.56	820796.614	76.25	15	61.25
652	42 15.6533777	70 53.5568532	2920680.709	820582.766	51.25	15	36.25
653	42 15.6527601	70 53.5437622	2920677.379	820641.853	51.25	15	36.25
654	42 15.6552064	70 53.5310591	2920692.645	820699.057	51.25	15	36.25
655	42 15.6556492	70 53.5171941	2920695.78	820761.59	56.25	15	41.25
656	42 15.6608646	70 53.5006118	2920727.989	820836.175	76.25	15	61.25
657	42 15.6448038	70 53.5510724	2920628.822	820609.217	51.25	15	36.25
658	42 15.6291523	70 53.5476018	2920533.875	820625.552	55	20	35
659	42 15.6386505	70 53.5398527	2920591.811	820660.101	60	20	40
660	42 15.6455580	70 53.5279745	2920634.145	820713.391	60	20	40

661	42 15.6455343	70 53.5129068	2920634.485	820781.37	60	20	40
662	42 15.6475668	70 53.4933049	2920647.461	820869.716	85	20	65
663	42 15.6288332	70 53.5329759	2920532.407	820691.551	60	20	40
664	42 15.6356816	70 53.5211053	2920574.382	820744.809	60	20	40
665	42 15.6355958	70 53.5060806	2920574.344	820812.597	60	20	40
666	42 15.6185062	70 53.5274684	2920469.863	820716.845	60	20	40
667	42 15.6252711	70 53.5154657	2920511.336	820770.703	60	20	40
668	42 15.6252329	70 53.5003497	2920511.59	820838.901	60	20	40
669	42 15.6340633	70 53.4837221	2920565.756	820913.534	85	20	65
670	42 15.6088230	70 53.5199927	2920411.293	820750.991	60	20	40
671	42 15.6156224	70 53.5079870	2920452.975	820804.861	60	20	40
672	42 15.6155505	70 53.4930285	2920453.02	820872.35	60	20	40
673	42 15.6205945	70 53.4740094	2920484.267	820957.937	85	20	65
674	42 15.5991898	70 53.5126193	2920353.023	820784.674	60	20	40
675	42 15.6059161	70 53.5006200	2920394.261	820838.518	60	20	40
676	42 15.6067052	70 53.4837832	2920399.596	820914.444	60	20	40
677	42 15.6070396	70 53.4643078	2920402.254	821002.294	85	20	65
678	42 15.5882112	70 53.5095342	2920286.445	820799.068	60	20	40
679	42 15.5970309	70 53.4913301	2920340.596	820880.815	60	20	40
680	42 15.5774980	70 53.5053073	2920221.515	820818.602	60	20	40
681	42 15.5862807	70 53.4945121	2920275.203	820866.925	65	25	40
682	42 15.5902591	70 53.4794361	2920299.851	820934.769	65	25	40
683	42 15.5930436	70 53.4579204	2920317.456	821031.718	100	25	75
684	42 15.5670234	70 53.4968377	2920158.17	820857.267	60	20	40
685	42 15.5754432	70 53.4872711	2920209.615	820900.063	60	20	40
686	42 15.5793932	70 53.4728076	2920234.071	820965.145	65	25	40
687	42 15.5653073	70 53.4817465	2920148.233	820925.427	65	25	40
688	42 15.5684982	70 53.4663113	2920168.11	820994.926	65	25	40
689	42 15.5770544	70 53.4458826	2920220.734	821086.721	100	35	65
690	42 15.5535407	70 53.4851563	2920076.659	820910.553	60	20	40
691	42 15.5568982	70 53.4701350	2920097.535	820978.178	65	25	40
692	42 15.5604653	70 53.4536951	2920119.729	821052.194	70	25	45
693	42 15.5454959	70 53.4748861	2920028.13	820957.237	60	20	40
694	42 15.5482677	70 53.4589493	2920045.478	821029.018	65	25	40
695	42 15.5511792	70 53.4418112	2920063.713	821106.212	70	25	45
696	42 15.5659928	70 53.4268142	2920154.166	821173.23	105	35	70
697	42 15.5371098	70 53.4649262	2919977.518	821002.536	60	20	40
698	42 15.5393435	70 53.4484260	2919991.616	821076.882	65	25	40
699	42 15.5463431	70 53.4259513	2920034.852	821177.976	70	25	45
700	42 15.5560907	70 53.4062020	2920094.691	821266.654	100	35	65
701	42 15.5285694	70 53.4552367	2919925.961	821046.622	60	20	40
702	42 15.5348438	70 53.4334772	2919964.769	821144.521	65	25	40
703	42 15.5390772	70 53.4117765	2919991.181	821242.243	70	25	45
704	42 15.5443810	70 53.3870053	2920024.192	821353.771	110	45	65
705	42 15.5244656	70 53.4413276	2919901.485	821109.553	60	20	40
706	42 15.5278490	70 53.4203174	2919922.711	821204.197	65	25	40
707	42 15.5281975	70 53.4013985	2919925.438	821289.537	80	30	50
708	42 15.5148019	70 53.4485924	2919842.559	821077.196	60	20	40
709	42 15.5179522	70 53.4291526	2919862.318	821164.765	60	20	40
710	42 15.5168800	70 53.4137467	2919856.303	821234.318	65	25	40
711	42 15.5082489	70 53.4365171	2919803.149	821131.96	60	20	40
712	42 15.5064456	70 53.4216646	2919792.675	821199.048	60	20	40
713	42 15.5102146	70 53.4004056	2919816.252	821294.798	65	25	40
714	42 15.5199519	70 53.3845866	2919875.901	821365.745	85	35	50
715	42 15.5331810	70 53.3655049	2919956.864	821451.26	110	45	65
716	42 15.4980622	70 53.4315564	2919741.44	821154.783	55	20	35
717	42 15.4965056	70 53.4155976	2919732.501	821226.852	65	25	40
718	42 15.4982463	70 53.3995954	2919743.589	821298.973	65	25	40
719	42 15.5046887	70 53.3860839	2919783.153	821359.653	65	25	40
720	42 15.5141546	70 53.3639634	2919841.358	821459.042	95	45	50
721	42 15.5305821	70 53.3414301	2919941.857	821559.99	100	35	65
722	42 15.4988257	70 53.3563931	2919748.503	821493.863	80	30	50
723	42 15.5128813	70 53.3382871	2919834.453	821574.94	110	45	65
724	42 15.5299552	70 53.3157949	2919938.878	821675.674	110	45	65
725	42 15.4904114	70 53.3404104	2919697.915	821566.338	80	35	45
726	42 15.4933001	70 53.3235993	2919716.003	821642.059	70	25	45
727	42 15.5107921	70 53.3123745	2919822.603	821691.94	110	45	65

728	42 15.5327079	70 53.2919726	2919956.367	821783.032	100	35	65
729	42 15.4822937	70 53.3135771	2919649.48	821687.755	85	25	60
730	42 15.4963170	70 53.2956706	2919735.229	821767.933	110	30	80
731	42 15.5152610	70 53.2864219	2919850.584	821808.835	115	45	70
732	42 15.5346155	70 53.2692527	2919968.689	821885.453	95	45	50
733	42 15.4750759	70 53.2972452	2919606.171	821761.754	65	20	45
734	42 15.4834338	70 53.2770112	2919657.588	821852.68	100	35	65
735	42 15.5006882	70 53.2628987	2919762.838	821915.599	115	45	70
736	42 15.5184306	70 53.2621694	2919870.62	821918.116	100	35	65
737	42 15.5371401	70 53.2484813	2919984.694	821979.056	85	35	50
738	42 15.4826419	70 53.2560689	2919653.456	821947.2	60	20	40
739	42 15.4913227	70 53.2453550	2919706.526	821995.159	65	25	40
740	42 15.5061595	70 53.2428400	2919796.718	822005.859	85	35	50
741	42 15.5229125	70 53.2401188	2919898.555	822017.405	95	45	50
742	42 15.5387185	70 53.2290418	2919994.911	822066.691	80	30	50
743	42 15.5115879	70 53.2248400	2919830.27	822086.832	80	30	50
744	42 15.5257428	70 53.2206181	2919916.377	822105.262	80	30	50
745	42 15.5388048	70 53.2086313	2919996.097	822158.772	85	35	50
746	42 15.5259790	70 53.1968689	2919918.581	822212.4	95	30	65
747	42 15.5398483	70 53.1881803	2920003.098	822250.994	85	35	50
748	42 15.5313414	70 53.1677630	2919952.095	822343.481	110	45	65
749	42 15.5439187	70 53.1676412	2920028.486	822343.481	65	25	40
750	42 15.5446028	70 53.1515512	2920033.164	822416.043	65	25	40
751	42 15.5326731	70 53.1386822	2919961.127	822474.625	80	20	60
752	42 15.5454795	70 53.1353833	2920039.013	822488.948	65	25	40
753	42 15.5358040	70 53.1171313	2919980.843	822571.718	95	30	65
754	42 15.5471223	70 53.1199519	2920049.492	822558.497	60	20	40
755	42 15.5437927	70 53.0993921	2920029.939	822651.401	85	35	50
756	42 15.5327093	70 53.0837205	2919963.134	822722.591	80	20	60
757	42 15.5462345	70 53.0811399	2920045.363	822733.641	75	30	45
758	42 15.5381109	70 53.0658388	2919996.523	822803.03	80	30	50
759	42 15.5246062	70 53.0396222	2919915.357	822921.902	95	45	50
760	42 15.4960346	70 53.0083495	2919742.848	823064.248	80	30	50
761	42 15.5825404	70 53.0354095	2920267.355	822938.367	80	30	50
762	42 15.5711701	70 53.0233441	2920198.691	822993.3	80	30	50
763	42 15.5599141	70 53.0112876	2920130.721	823048.188	80	30	50