

20200131_PSP4_ConsensusTarget

date	time	Tx(GONG)	Ty(GONG)	Tx(HMI)	Ty(HMI)
2020-01-01	00:00:00	-799.5288445184	-480.0161128045	-598.2330181345	-440.1578991992
2020-01-01	06:00:00	-777.4892766925	-459.8401579191	-560.2630400262	-441.4343487147
2020-01-01	12:00:00	-769.6859684964	-455.4411780289	-644.0576847598	-623.246960545
2020-01-01	18:00:00	-751.9810434256	-449.4426330833	-632.8573438246	-617.9679347297
2020-01-02	00:00:00	-733.4523167962	-449.8529561816	-625.3798909148	-616.2585490242
2020-01-02	06:00:00	-703.3057431579	-451.7082295653	-607.3387282598	-612.9487887307
2020-01-02	12:00:00	-692.3845942942	-526.0867239953	-580.7033214204	-610.8154270103
2020-01-02	18:00:00	-693.8303517806	-516.6795669691	-555.1733812112	-612.1000112929
2020-01-03	00:00:00	-691.2164815988	-507.7592607838	-526.7142221839	-611.4855237398
2020-01-03	06:00:00	-679.9579844573	-481.2943870964	nan	nan
2020-01-03	12:00:00	-688.8871461602	-457.347757552	nan	nan
2020-01-03	18:00:00	-686.4799165286	-436.3174056902	nan	nan
2020-01-04	00:00:00	-674.8635098925	-402.7180321999	-827.9890262373	524.4629720814
2020-01-04	06:00:00	-647.2277111129	-401.4774685713	-847.5141609223	487.6501064283
2020-01-04	12:00:00	-612.9765024299	-408.0245789804	-861.8113080689	465.3055139115
2020-01-04	18:00:00	-566.3308484615	-425.4929062419	-867.5122172309	448.0506424022
2020-01-05	00:00:00	-500.6250029244	-459.9748600221	-863.3985178124	432.4420348994
2020-01-05	06:00:00	-440.689160109	-508.0866798699	-860.4244863377	421.8650283251
2020-01-05	12:00:00	-377.8749510723	-554.9844544762	-858.4279830123	411.9714536791
2020-01-05	18:00:00	-363.2410988726	-635.9712000815	-853.4142268703	405.7481213479
2020-01-06	00:00:00	-264.5050556222	-828.5107704236	-842.2057851076	399.3287967439
2020-01-06	06:00:00	-478.7912903661	837.7558176176	-833.2746886201	393.0116544691
2020-01-06	12:00:00	-473.2283529099	833.618269849	-825.4534785664	388.186084482
2020-01-06	18:00:00	-471.246421298	831.5481903076	-817.2754469966	384.3108964172
2020-01-07	00:00:00	-463.5794821128	831.8400297642	-800.1630475833	379.1271589361
2020-01-07	06:00:00	-455.0572774909	834.4896665469	-783.4753977936	376.3565220149
2020-01-07	12:00:00	-430.9285841545	840.1158012048	-774.1277216279	380.5087394171
2020-01-07	18:00:00	-410.4662710901	849.1768473539	-750.6715133607	379.6441150192
2020-01-08	00:00:00	-395.371721667	858.3465173153	-736.942984421	389.0190619833
2020-01-08	06:00:00	-374.9898456782	864.3181282786	-715.1405539645	399.9996694305
2020-01-08	12:00:00	-366.7747115269	872.1366388684	-695.9914420201	414.8809942772
2020-01-08	18:00:00	-352.9080181641	876.0874128655	-677.3555088651	431.5018196262
2020-01-09	00:00:00	-346.0678178645	888.8122060873	-658.4740467325	454.700525429
2020-01-09	06:00:00	-329.566786645	895.6847725676	-640.6101027972	472.5957817631
2020-01-09	12:00:00	-335.892870686	900.8094531087	-629.7817988098	492.7924711053
2020-01-09	18:00:00	-341.910023958	898.1699987779	-608.3140921313	508.2723535775
2020-01-10	00:00:00	-360.3897552306	899.6768221805	-582.5899296519	533.2782087656
2020-01-10	06:00:00	-369.7200823568	897.7653129284	-534.6477863987	618.7496309502
2020-01-10	12:00:00	-378.0286028511	895.682545857	-527.0351240262	648.7219381968
2020-01-10	18:00:00	-392.5798998128	890.0069462693	-515.3886654249	658.2453533991
2020-01-11	00:00:00	-403.1831306247	882.275586092	-491.6569495972	675.6936188118
2020-01-11	06:00:00	-403.2059976929	880.1983074744	-441.9223192693	706.1611024204
2020-01-11	12:00:00	-404.2648431712	879.6675573247	-404.990150884	772.086495389
2020-01-11	18:00:00	-403.0873569003	880.1843847839	-403.1216273098	804.1356091526
2020-01-12	00:00:00	-406.0255147049	881.4537504093	-397.4818653995	818.5345640114
2020-01-12	06:00:00	-411.7042342864	880.9596286523	-384.0589089398	833.3650162434
2020-01-12	12:00:00	-418.008973134	875.4283564306	-360.7229724422	848.0955613756
2020-01-12	18:00:00	-435.6556054996	872.6649981369	-347.171447244	864.4040926401

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2020-01-13	00:00:00	-443.5846162781	864.6122726094	-341.7653327668	881.3481943379
2020-01-13	06:00:00	-459.0067568598	861.1119238196	-331.1871548905	893.5589448789
2020-01-13	12:00:00	-464.1801059495	852.3031706297	-364.2434079868	897.9077711554
2020-01-13	18:00:00	-482.0867765786	846.3878889561	-394.8839623935	884.8793027025
2020-01-14	00:00:00	-484.9862914777	839.0194059054	-421.2060206202	873.4252698715
2020-01-14	06:00:00	-490.1679208216	833.580946337	-449.2371791815	859.0262983766
2020-01-14	12:00:00	-505.2461681282	826.7442874235	-494.3724525766	835.9660913859
2020-01-14	18:00:00	-512.4366437907	820.0917479322	-513.7119185654	818.7864388073
2020-01-15	00:00:00	-506.2657642425	815.2952135758	-523.5765065362	807.513498539
2020-01-15	06:00:00	-507.9727132495	813.1063755409	-527.2681232481	805.2296554875
2020-01-15	12:00:00	-499.6872096425	813.2012728254	-514.9819315837	804.0278429372
2020-01-15	18:00:00	-489.8531205037	816.1801795262	-503.8886753917	804.9414968307
2020-01-16	00:00:00	-470.295460887	821.1315805677	-492.6173365924	810.4591675322
2020-01-16	06:00:00	-452.341810761	828.7771586767	-472.2700310785	818.167539838
2020-01-16	12:00:00	-435.6070113843	838.0320125909	-452.3961894831	829.7599526114
2020-01-16	18:00:00	-409.9788108496	847.7209146111	-423.9276389615	841.7079943591
2020-01-17	00:00:00	-382.9129199772	862.9159665333	-431.5442133497	848.2411484363
2020-01-17	06:00:00	-368.1474797456	876.5410009899	-426.1659788222	851.0742727829
2020-01-17	12:00:00	-386.8043874723	878.7465925404	-423.931179995	854.7469158598
2020-01-17	18:00:00	-378.0016263046	878.627918964	-416.8587285483	859.3183529723
2020-01-18	00:00:00	-385.0505185972	882.3012597437	-407.1810013831	860.5377647122
2020-01-18	06:00:00	-387.2187246461	884.1174185795	-2152.7441493361	160.4308569833
2020-01-18	12:00:00	-391.2819243646	888.7842538698	-2148.6471760545	178.5815975758
2020-01-18	18:00:00	-388.2881253215	889.5192166651	-461.0987275788	-843.8079602837
2020-01-19	00:00:00	-400.4498487262	884.5763603381	-507.1030413653	-816.1713418241
2020-01-19	06:00:00	-483.4098644946	849.9759666603	-583.028920833	-773.9374822526
2020-01-19	12:00:00	-527.5440627318	821.0963185992	-776.595092027	-555.2832949152
2020-01-19	18:00:00	-545.3438847843	807.5674788117	-783.481785066	-533.5416256195
2020-01-20	00:00:00	-558.7063130352	796.0496538592	-785.0666475391	-521.3132913571
2020-01-20	06:00:00	-559.0462154953	782.3900408682	-779.5592135482	-511.6660796829
2020-01-20	12:00:00	-568.4364526295	771.903525032	-767.0758090119	-501.9331274375
2020-01-20	18:00:00	-565.0308330276	763.567413655	-748.7686521991	-492.4726208847
2020-01-21	00:00:00	-560.4054171911	759.4274978873	-737.8680247688	-469.2565284874
2020-01-21	06:00:00	-543.7736580695	760.3197100969	-764.2877077607	-405.6455968523
2020-01-21	12:00:00	-516.1333567218	769.0154233079	-771.5689048851	-378.14882352
2020-01-21	18:00:00	-477.6339701682	787.9137002777	-797.9902422167	-349.0659684552
2020-01-22	00:00:00	-452.673667805	805.8895467853	-787.0703319248	-334.8046466917
2020-01-22	06:00:00	-432.042463962	822.524762021	-765.8486040945	-330.0491609798
2020-01-22	12:00:00	-430.5042775562	827.0494209778	-742.6154793666	-328.244727071
2020-01-22	18:00:00	-417.9166246043	831.6117628512	-714.0485213457	-326.1279599058
2020-01-23	00:00:00	-401.1039088066	839.9271643768	-679.4137240024	-322.5153957624
2020-01-23	06:00:00	-390.4150966629	853.5664585246	-647.5145846782	-324.7834222204
2020-01-23	12:00:00	-376.252415577	857.1278337887	-627.555732664	-344.3362542627
2020-01-23	18:00:00	-360.6327826688	866.4688898504	-561.6186442659	-451.7585695422
2020-01-24	00:00:00	-340.6868769941	874.9529553026	-535.1028525396	-458.6154424427
2020-01-24	06:00:00	-335.202677344	881.1927966766	-517.4873473109	-468.0196364174
2020-01-24	12:00:00	-331.6181605591	880.2808434248	-457.9739319778	-521.805652264
2020-01-24	18:00:00	-320.4786451794	876.8085541507	-406.7060665968	-586.9412227768
2020-01-25	00:00:00	-310.9685019001	883.2400925302	-373.1869729825	-592.6090806128

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2020-01-25	06:00:00	-290.7440215098	877.8621409437	-337.5180963876	-597.6725489078
2020-01-25	12:00:00	-274.8718129264	880.1282357629	-284.1418146449	-615.9903527138
2020-01-25	18:00:00	-258.0245798484	882.1371738401	-258.2634308899	-797.9883197429
2020-01-26	00:00:00	-239.5928041281	884.0816163519	-314.0886658768	-725.7714937169
2020-01-26	06:00:00	-219.3321935658	886.2011131106	-303.220136713	-703.9094834883
2020-01-26	12:00:00	-191.9977055809	884.6070531011	-273.1229284597	-697.7113187673
2020-01-26	18:00:00	-959.9771085673	112.9043830757	-239.0742767043	-697.573111126
2020-01-27	00:00:00	-806.0870796195	127.0389754042	-197.4795599075	-707.2824785416
2020-01-27	06:00:00	-640.5219097321	123.2324101126	-149.6871865969	-735.3770839136
2020-01-27	12:00:00	-455.4231886715	118.2795936497	56.2036266533	-737.6425638982
2020-01-27	18:00:00	-91.3316511994	-807.3018176922	64.2462967221	-593.8880920836
2020-01-28	00:00:00	-44.7952778272	-808.0295219876	112.6810218924	-583.3007408171
2020-01-28	06:00:00	4.3475856423	-811.9159845933	161.6419422293	-574.7667250645
2020-01-28	12:00:00	92.242308166	-820.1756869953	229.8954478206	-503.5316003907
2020-01-28	18:00:00	154.3046857687	-805.224229429	313.421133705	-447.4231439888
2020-01-29	00:00:00	206.562660482	-794.2718538743	382.5792402277	-438.2350316597
2020-01-29	06:00:00	258.5573561798	-777.6061623312	472.7689060679	-325.7658367729
2020-01-29	12:00:00	295.9085617725	-771.0749340422	544.0373645745	-312.1260543914
2020-01-29	18:00:00	326.8538094225	-771.8879642134	593.0391288682	-318.1234022573
2020-01-30	00:00:00	355.0835125908	-776.8083818925	672.5467787893	-358.00554241
2020-01-30	06:00:00	381.0736317547	-785.9492901458	691.5222835761	-490.7382216727
2020-01-30	12:00:00	397.0218240969	-796.0033382208	726.6221580811	-489.9686207617
2020-01-30	18:00:00	398.2659614466	-810.068294953	749.6822917286	-494.5565327183
2020-01-31	00:00:00	410.1949460893	-824.210541158	765.817969255	-500.3367643652
2020-01-31	06:00:00	2428.4241235654	-127.174896504	783.3601276287	-506.680285315
2020-01-31	12:00:00	2443.7612991183	-144.6626841067	800.5903817135	-513.78608268
2020-01-31	18:00:00	nan	nan	806.76379389	-519.3618317011
2020-02-01	00:00:00	nan	nan	810.6475862032	-524.5388225749
2020-02-01	06:00:00	nan	nan	811.37680819	-529.0351364937
2020-02-01	12:00:00	nan	nan	815.7371354841	-537.0713114492
2020-02-01	18:00:00	nan	nan	816.4085924343	-544.4897652087
2020-02-02	00:00:00	nan	nan	nan	nan
2020-02-02	06:00:00	nan	nan	nan	nan
2020-02-02	12:00:00	nan	nan	nan	nan
2020-02-02	18:00:00	nan	nan	nan	nan
2020-02-03	00:00:00	nan	nan	nan	nan
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2020-02-03	18:00:00	nan	nan	nan	nan
2020-02-04	00:00:00	nan	nan	nan	nan
2020-02-04	06:00:00	nan	nan	nan	nan
2020-02-04	12:00:00	nan	nan	nan	nan
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2020-02-05	00:00:00	nan	nan	nan	nan
2020-02-05	06:00:00	nan	nan	nan	nan
2020-02-05	12:00:00	nan	nan	nan	nan
2020-02-05	18:00:00	nan	nan	nan	nan
2020-02-06	00:00:00	nan	nan	nan	nan
2020-02-06	06:00:00	nan	nan	nan	nan

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2020-02-06	12:00:00	nan	nan	nan	nan
2020-02-06	18:00:00	nan	nan	nan	nan
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2020-02-07	12:00:00	nan	nan	nan	nan
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2020-02-16	00:00:00	nan	nan	nan	nan
2020-02-16	06:00:00	nan	nan	nan	nan
2020-02-16	12:00:00	nan	nan	nan	nan
2020-02-16	18:00:00	nan	nan	nan	nan
2020-02-17	00:00:00	nan	nan	nan	nan
2020-02-17	06:00:00	nan	nan	nan	nan
2020-02-17	12:00:00	nan	nan	nan	nan
2020-02-17	18:00:00	nan	nan	nan	nan
2020-02-18	00:00:00	nan	nan	nan	nan
2020-02-18	06:00:00	nan	nan	nan	nan
2020-02-18	12:00:00	nan	nan	nan	nan

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2020-02-18	18:00:00	nan	nan	nan	nan
2020-02-19	00:00:00	nan	nan	nan	nan
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2020-02-19	12:00:00	nan	nan	nan	nan
2020-02-19	18:00:00	nan	nan	nan	nan
2020-02-20	00:00:00	nan	nan	nan	nan
2020-02-20	06:00:00	nan	nan	nan	nan
2020-02-20	12:00:00	nan	nan	nan	nan
2020-02-20	18:00:00	nan	nan	nan	nan
2020-02-21	00:00:00	nan	nan	nan	nan
2020-02-21	06:00:00	nan	nan	nan	nan
2020-02-21	12:00:00	nan	nan	nan	nan
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2020-02-23	18:00:00	nan	nan	nan	nan
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2020-02-25	12:00:00	nan	nan	nan	nan
2020-02-25	18:00:00	nan	nan	nan	nan
2020-02-26	00:00:00	nan	nan	nan	nan
2020-02-26	06:00:00	nan	nan	nan	nan
2020-02-26	12:00:00	nan	nan	nan	nan
2020-02-26	18:00:00	nan	nan	nan	nan
2020-02-27	00:00:00	nan	nan	nan	nan
2020-02-27	06:00:00	nan	nan	nan	nan
2020-02-27	12:00:00	nan	nan	nan	nan
2020-02-27	18:00:00	nan	nan	nan	nan

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lon(GONG)	lat(GONG)	elon(GONG)	elat(GONG)	lon(HMI)	lat(HMI)
0.2638554847	-30.2872974202	10	10	26.9123936886	-28.7297740078
0.9631236284	-29.42777398	10	10	26.9903772992	-28.919240524
0.9935440805	-28.9328804734	10	10	3.4897317328	-41.0631410483
0.13681222	-28.7408236593	10	10	2.6816786488	-40.6839662917
359.5563719003	-28.8010334987	10	10	1.3104276862	-40.4044715633
359.0458137778	-29.2365564314	10	10	0.4661555244	-40.3171528529
352.540917953	-34.1201842908	10	10	0.5497559104	-40.2949735647
349.5834638622	-33.5403448868	10	10	359.880425449	-40.5747485378
347.9870578745	-32.7909474622	10	10	359.140755935	-40.9038420476
346.9299001851	-31.3108415517	10	10	312.1293055433	53.4034982037
344.1184813771	-29.6812916176	10	10	309.414143295	48.539982783
342.0637543425	-28.37500832	10	10	305.6337521033	38.8816169793
341.1158874074	-26.3876310023	10	10	304.1891246794	32.24428518
340.7314633449	-26.3830569548	10	10	303.1184446519	29.6382324864
340.4471549314	-26.9111429144	10	10	302.4038453234	27.8441649868
340.7320510197	-28.1797015279	10	10	301.4881493872	26.5277687526
341.9308876017	-30.626708427	10	10	300.570856318	25.5124691128
342.3516682624	-33.8816382153	10	10	299.5277314803	24.7031309054
342.6054944173	-37.439791172	10	10	298.4496391213	23.8713023415
337.9624386576	-43.175284737	10	10	297.5875852559	23.2382085145
331.8261784651	-60.5118923652	10	10	296.4154630607	22.771031329
297.0507421072	57.3016154237	10	10	295.0688717128	22.2548060722
296.0170732107	56.9184237455	10	10	293.6133835419	21.787664587
294.9304466234	56.3583676088	10	10	292.2099152324	21.3447980376
293.6172610303	56.2178060026	10	10	290.8729665138	21.0183479633
292.3134595675	56.1640501538	10	10	289.5498139559	20.7851423573
292.1474411269	56.7180665241	10	10	288.3248708956	20.6823027914
290.6119722433	57.6402794486	10	10	287.0445222387	20.6729550721
288.4222567615	58.4780939993	10	10	285.412907127	21.0411036289
286.158246034	59.6175291866	10	10	283.8361432735	21.695374742
282.694553532	60.4727919266	10	10	281.954786965	22.5804194826
279.79187646	61.3912964102	10	10	280.1208138024	23.5176705576
276.2328565556	62.3184181676	10	10	278.1632257242	24.8525337242
272.1870030223	63.9229399816	10	10	275.3612437905	26.2391368306
266.4405865938	64.428902731	10	10	272.64024424	27.4494257027
260.9557542132	64.6207741418	10	10	270.539445835	28.5624849717
255.4448649998	64.0820680211	10	10	268.9323097567	30.1110393762
249.9803128118	64.0138545319	10	10	266.7929043719	36.0594482311
245.0650612757	63.8447209062	10	10	262.5742030284	38.4081045301
239.8290424551	63.2673934013	10	10	259.8332730042	39.1717655989
235.6537210215	62.6276206677	10	10	258.157103313	40.3665662103
232.2119805929	62.6013547223	10	10	257.8268292462	42.9395877993
228.5554701288	62.6022398262	10	10	253.8322982356	48.7348805002
225.1747923515	62.7029210861	10	10	247.5169854679	51.9530643673
221.0455923831	62.7399557912	10	10	243.5839943975	53.2314326751
217.0460599714	62.5400652459	10	10	240.021362897	54.855907362
212.2384074792	62.32331592	10	10	236.5163540062	57.1715197188
208.5295002866	61.324056554	10	10	232.791906953	58.9124547766

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204.6571100756	60.7604395366	10	10	227.446621933	60.777037051
201.1220714262	59.8478449148	10	10	219.7161327418	63.640670601
197.7232589008	59.3205757433	10	10	208.9861355142	63.863996245
194.1845437715	58.209619908	10	10	200.823978489	62.8586302059
191.1727657306	57.7658295913	10	10	194.3328094041	61.7048183822
188.1469181854	57.2570271585	10	10	188.7189843413	60.1734556733
185.7848033102	56.023249127	10	10	184.1004146525	57.2573362788
184.087655645	55.0473383542	10	10	181.4743661903	55.5271643524
182.4183057692	54.8127491309	10	10	180.3800077264	54.1217693115
181.1991175936	54.0804496263	10	10	179.5934994226	53.2045416357
179.830656995	53.9743723696	10	10	178.285331234	53.2680526411
178.667948635	53.9541987045	10	10	177.0265316123	53.2963590698
177.5392877827	54.5211704034	10	10	175.8159537199	53.4462772844
176.2535513513	55.1270912316	10	10	174.5620212064	54.1862326455
174.7142545658	55.7963694529	10	10	172.8901082822	55.1797130526
173.2015365413	57.0432766213	10	10	170.8216306575	56.8872973063
171.0699904852	58.8522230908	10	10	166.0764125696	57.1498543151
165.5559302785	61.1165465992	10	10	162.2339589988	57.7669576901
160.2783527672	60.6408095848	10	10	159.1424999575	57.9480309249
156.0433137806	61.5237368723	10	10	156.5356923389	58.2893515566
150.4723563521	61.8799963131	10	10	153.3798269511	58.8919410921
145.9286733019	62.1542083862	10	10	143.357103578	1.3380735725
140.5217198422	62.5987356731	10	10	140.2564433304	1.7331090633
134.6038373772	63.4349408571	10	10	123.388271156	-60.7640983481
127.0315796144	63.4768051697	10	10	116.8857003251	-57.8772438176
119.2688435957	58.6808036866	10	10	108.5779725196	-53.0855049488
116.2947753029	55.3763573833	10	10	108.7330116811	-35.7702350874
114.2459317356	53.7506372646	10	10	108.1255843854	-34.3680780226
112.3972756302	52.3470180659	10	10	107.0135481197	-33.585474349
111.0874981006	51.3574821786	10	10	106.2787421524	-33.0871240167
109.9035373283	49.922786698	10	10	105.8181561657	-32.7249542212
109.0221820639	49.0689499674	10	10	105.6838396276	-32.4547737977
108.1716607545	48.3548156867	10	10	106.1115217812	-31.082321317
107.5795967357	48.3138384726	10	10	102.8547068521	-27.031525054
107.2991613681	49.0103736444	10	10	100.1773365016	-25.30983371
106.9719509122	50.7356170973	10	10	95.0638123462	-23.3218353344
105.5685280715	52.091033685	10	10	93.6246079683	-22.6157529615
102.4066783472	53.9556123022	10	10	93.2053958942	-22.5132776897
98.9144648303	54.300446886	10	10	92.9975853849	-22.5340790577
96.5407570356	54.8660923636	10	10	92.6903058113	-22.6231504866
94.0955153578	55.8900579052	10	10	92.4526839558	-22.7170069635
91.5052625689	56.7420095069	10	10	92.1431615221	-23.021499019
88.8052571202	57.5739629887	10	10	90.2425333765	-24.2847288503
86.8647205124	58.3426620944	10	10	89.3330429923	-31.3417241125
84.2838917843	59.7417948111	10	10	87.8068936464	-32.0692849966
80.7813142531	60.4412865954	10	10	85.9480396335	-32.6796851463
78.4429152117	60.2219599516	10	10	85.6721651317	-36.6682034784
77.0157094107	60.0375405174	10	10	84.4845565114	-41.385667631
76.0719151362	59.6982450827	10	10	84.0825992588	-41.8762565885

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75.2339002291	59.7974581433	10	10	83.6531220977	-42.4747332856
74.4010669993	59.6950783901	10	10	84.513062527	-43.9283280795
73.6066794855	59.5872025966	10	10	73.6093331536	-59.4704148943
72.9532739741	59.4595869173	10	10	69.692796974	-52.6464553113
72.4876437104	59.2910449457	10	10	69.3952802803	-50.5142898242
72.3412741524	59.5050620651	10	10	69.3503966444	-50.213276034
69.1254136886	-2.5464950728	10	10	69.3535842925	-50.3781161443
69.5596526859	-2.3605311405	10	10	69.4683792542	-51.6613302328
70.2883373654	-2.5884166432	10	10	70.2293552419	-53.8460743054
71.3747117738	-2.8205393323	10	10	87.588596957	-54.6028098387
67.4237025676	-61.1958243719	10	10	83.7235505069	-42.8640602483
69.8716385826	-61.1640642067	10	10	84.1973059601	-42.0469640834
72.550981741	-61.5945032897	10	10	84.6925595748	-41.3901354688
80.5313978836	-62.5627155536	10	10	85.6825701064	-36.4130337029
84.3456796544	-60.8742526989	10	10	87.5867795925	-32.3712033175
86.5225732808	-59.3414173298	10	10	89.4191637102	-31.6781166278
88.3128150191	-57.5826661801	10	10	90.637401969	-24.2598684619
89.1070254117	-56.8639600663	10	10	92.6793684271	-23.2108279932
89.93498467	-56.8493511884	10	10	93.6103950028	-23.3894918841
90.8159201032	-57.0511994399	10	10	97.9658043016	-25.2072183374
91.7519640483	-57.4070527974	10	10	103.7330562332	-33.4031175268
92.6510072985	-58.2412188972	10	10	104.6418023794	-32.9316278952
93.1497309933	-59.7648293636	10	10	104.9231375755	-32.9112131778
95.1725817401	-60.8195595223	10	10	105.1387554367	-33.0650974259
112.6535700295	-3.9836429116	10	10	105.3743359466	-33.1022543477
114.5134068099	-3.8824463275	10	10	105.6418034025	-33.088539559
109.8451312157	49.4216477053	10	10	105.7655108752	-33.2453719299
110.2968675807	50.2212598172	10	10	105.9058067032	-33.3604046811
110.6595547561	50.560624591	10	10	106.0025041421	-33.4497108642
110.9583323919	50.8293620064	10	10	106.3542965966	-33.4840289758
111.1656384303	51.0414299409	10	10	106.5865654636	-33.5096539847
111.2764708635	51.1909126705	10	10	106.4470728712	-33.546309685
111.3002984397	51.2857829337	10	10	106.4823355356	-33.5290942135
111.2481658215	51.3297038952	10	10	106.4249579484	-33.4897097542
111.0257938162	50.9071772962	10	10	106.2918923412	-33.4368395133
110.8243350281	50.8682645334	10	10	106.0980222473	-33.3807029052
110.5142000811	50.3710469234	10	10	106.1727562909	-33.2143541421
110.2399807266	50.2518154754	10	10	105.9416648087	-33.1452990508
109.9052711639	49.7597738222	10	10	105.7474488178	-33.0877829999
109.5359695097	49.2438234187	10	10	105.6158762217	-33.0268450905
109.2208970966	49.1218258024	10	10	105.5314271303	-32.9396125198
108.7657556113	48.5776415225	10	10	105.4845202749	-32.7969386641
108.3446427334	48.1016094139	10	10	105.4862006566	-32.5489138065
108.0016383593	48.0452326684	10	10	105.5476034073	-32.0635717545
107.6999277938	48.0628533525	10	10	105.9693056265	-31.246319446
107.4439249499	48.1867968955	10	10	104.0608624865	-27.5051426393
107.1436309799	48.494339527	10	10	102.0363990436	-26.6903029618
107.0734616525	49.4077785213	10	10	98.5036451931	-25.1733930433
106.6208081244	50.6464524642	10	10	95.2895930674	-23.6472645913

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105.7791667692	51.8215291258	10	10	94.0608070686	-22.9868753279
104.1102368183	53.3866746307	10	10	93.3205072213	-22.6763931032
100.9672977728	54.0245376622	10	10	93.1788916172	-22.6191162408
98.4223078063	54.3506366547	10	10	92.8309414674	-22.604623087
96.6759080388	54.7505417365	10	10	92.6443813622	-22.6546817188
94.4581495244	55.6903464259	10	10	92.4654815565	-22.6958364466
91.8377259683	56.7927012197	10	10	92.2804446431	-22.8862178288
89.3388219186	57.3971926622	10	10	90.6541279519	-23.7506393073
87.247118478	58.2029904844	10	10	89.229128683	-25.7220468767
84.7758224844	59.2980810594	10	10	88.0867227637	-31.995924184
80.3502424666	60.5786329102	10	10	85.9788182335	-32.7775882109
77.8672548496	60.1087973701	10	10	84.6722590639	-40.4196504786
76.1848008306	59.7562463513	10	10	84.260438893	-41.7298829577
74.4994057661	59.6110276918	10	10	83.0837919806	-42.8319371224
72.4749972307	59.4956865115	10	10	69.4387780695	-51.0479913061
70.229544174	59.0835589553	10	10	68.4864415569	-49.6559871292
68.7274859438	58.6973075726	10	10	62.444617762	-49.7484581975
67.9250226919	58.239027305	10	10	59.0392292075	-51.4255945485
67.1645575071	58.1184456701	10	10	55.1159210763	-52.457445712
66.4688765498	57.9840999622	10	10	52.8482337577	-52.7748599339
65.9661819795	58.128188703	10	10	49.264178615	-53.09203686
52.0067162514	0.9475866715	10	10	46.9592879771	-53.4738052979
33.4444097806	-57.504882879	10	10	40.3007741172	-56.0640654196
28.735107601	-57.1119413058	10	10	30.0376120991	-32.216151239
28.9910443383	-32.0005942801	10	10	28.8436538674	-30.7666555695
28.1444162506	-31.0833360866	10	10	28.6291095242	-30.4230207332
27.7637307042	-30.5945277336	10	10	28.4223920858	-30.1735431389
27.5281160238	-30.3282777401	10	10	28.1514783625	-29.908750291
27.4696552227	-30.1782652984	10	10	27.7923546575	-29.6247475108
27.2818010757	-30.0755473906	10	10	27.6008060715	-29.3358520391
27.385225556	-30.3405333771	10	10	27.3621218146	-29.115461935
5.2992657199	-49.6038428318	10	10	27.2633098852	-28.9894520019
1.9200995233	-41.1644003536	10	10	27.1073969119	-28.8852422361
359.5574347218	-40.6569243629	10	10	27.0539659608	-28.838051847
0.8920058734	-30.2230104709	10	10	26.9613780084	-28.8478917519
0.9860735263	-29.7274558975	10	10	27.2196732827	-29.2732188379
0.9375545072	-29.3848703144	10	10	3.8280044952	-42.1670979271
0.2663662893	-29.1341916131	10	10	3.2697741061	-40.8894790238
359.7679134538	-29.0737048237	10	10	2.5569786025	-40.8250215125
359.451529459	-29.1774966857	10	10	1.3563967703	-40.7039715673
358.8550743947	-29.4715510849	10	10	0.5861506889	-40.5659680066
355.071476789	-33.0753593755	10	10	0.7590429637	-40.4492982076
350.5212665861	-33.6963358396	10	10	0.1553663023	-40.6128829215
348.8466479208	-33.3800415875	10	10	359.5216631376	-40.785366468
347.7870519157	-32.9729046897	10	10	358.1275095364	-41.100543921
347.3052059212	-32.4822617989	10	10	356.8872724415	-41.507031298
344.7253081158	-30.0717162506	10	10	309.1847669505	48.6319721253
343.437807905	-29.6033856189	10	10	305.7195803233	39.5726433098
342.0615080263	-28.5604306985	10	10	304.8160576068	33.7626205174

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340.9297048022	-27.3970392732	10	10	303.506361649	30.5015479155
340.7263442338	-27.2477480904	10	10	302.8103294937	28.7343610603
340.621274774	-27.6426674533	10	10	302.1621462872	27.4745789783
341.1007770032	-28.6460577465	10	10	301.4764520707	26.2785881426
342.1099928802	-30.5441866558	10	10	300.7931886343	25.3743510963
342.2686931825	-33.2250110145	10	10	300.05243764	24.6405534722
342.7370669678	-35.5119015594	10	10	298.9201251782	24.0328624205
341.1474175158	-39.0337206638	10	10	298.2626106221	23.376155047
337.4867657606	-43.5607198486	10	10	297.4254052468	22.983404216
332.8204050007	-60.1490252774	10	10	296.6098050289	22.4956031534
306.6304606306	1.9909162576	10	10	295.3619958587	22.1525462211
296.4030190036	57.0148500052	10	10	294.1607429023	21.7505157504
295.539368823	56.7162627287	10	10	293.0092806371	21.3732186211
294.4920636857	56.1151800507	10	10	291.6647457186	21.0333998856
289.3451372555	45.7102762905	10	10	290.6940521945	20.7845267427
289.3529670547	45.437614159	10	10	289.5664110497	20.5951079276
292.2469709579	56.410009884	10	10	288.538447559	20.4995488961
291.2409445535	57.4272730665	10	10	287.4424094296	20.4964692234
289.4810032949	58.2413661938	10	10	286.1115333267	20.6658343816
287.4951828829	58.9156228548	10	10	284.8504398689	21.0751523301
285.4144000152	59.9915415043	10	10	283.4123162946	21.7423725537
282.1676664247	60.7213280471	10	10	281.7247564125	22.5715278375
279.539580455	61.1750734557	10	10	280.1267281891	23.4189625992
276.7093646219	62.4452381407	10	10	278.5745922392	24.3856086213
273.0216403825	63.350181065	10	10	276.1425196808	25.8489011761
268.3608409731	64.4764077527	10	10	273.6219546254	26.9825384722
263.3046511668	64.3016879588	10	10	271.4706411104	27.9293719521
258.307297546	64.3415697085	10	10	269.8018333132	29.1373361804
253.6927532151	64.471330184	10	10	268.6388339961	30.7187673291
248.9008450573	64.3293219769	10	10	266.0652707715	36.6382449468
244.4945344429	64.2465986193	10	10	262.3836204254	38.6524947052
239.6925216512	63.7008856172	10	10	259.8309890934	39.0239210986
236.0796137415	62.4621258593	10	10	258.3131707858	40.147256983
232.9559714676	62.3812434933	10	10	257.85597012	41.8463470266
229.6503535933	62.4385277898	10	10	255.4825661185	47.335262434
226.5905345853	62.468530036	10	10	250.1134697148	50.6695589989
223.1568274234	62.615788157	10	10	245.3812771546	52.5031620142

