

Dispersion Report

Workspace: 72341-1RiempimFSRU

Study: Riempimento FSRU-ME4

Equipment Item: 2R Compressore BOG HD

72341-1RiempimFSRU\Riempimento FSRU-ME4\2R Compressore BOG HD

Material	GAS NATURALE	
East	0	m
North	0	m

Scenario (Leak) : 75mm

72341-1RiempimFSRU\Riempimento FSRU-ME4\2R Compressore BOG HD\75mm

Material to track	GAS NATURALE
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Weather: Category 2/F

Wind speed [m/s]	2
Pasquill stability	F stable - night with moderate clouds and light/moderate wind
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	100

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates		
					Release	Rainout	Final
1	Continuous	0	0	kg/s	1,32626	0	1,32626
2	Continuous	120,968	0	kg/s	1,32626	0	1,32626

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Down wind distance [m]	C/Line height [m]	C/Line conc [ppm]	Effective width [m]	Effective depth [m]	C/Line vapour temperature [degC]	C/Line liquid fraction	Centroid velocity [m/s]	C/Line cloud density [kg/m ³]
1	0	0	12,5	999.99 9,41	0,0540 911	0,0270 316	-133,705	0	300	1,5117 5
1	0,01	1,18915	12,5	347.60 9,17	0,2533 43	0,1267 86	-14,4907	0	73,611 8	1,1700 9
1	0,02	1,80367	12,5	257.01 3,61	0,3568 12	0,1785 51	-1,28001	0	52,830 1	1,1596 6
1	0,03	2,28038	12,5	213.52 3,66	0,4359	0,2181 13	3,78094	0	43,452 4	1,1597 8
1	0,04	2,68477	12,5	186.59 6,80	0,5026 15	0,2514 81	6,70887	0	37,826 8	1,1605 3
1	0,05	3,04247	12,5	167.79 0,06	0,5613 56	0,2808 59	8,61883	0	33,976 5	1,1615 2
1	0,06	3,36717	12,5	153.66 8,00	0,6144 97	0,3074 34	9,98499	0	31,126 8	1,1624 9
1	0,07	3,66666	12,5	142.55 3,80	0,6633 86	0,3318 81	11,0214	0	28,908 6	1,1633 8
1	0,08	3,94617	12,5	133.50 4,70	0,7089 22	0,3546 5	11,841	0	27,118 2	1,1641 8
1	0,09	4,20946	12,50 01	125.94 3,65	0,7517 43	0,3760 61	12,5098	0	25,633	1,1649
1	0,1	4,45917	12,50 01	119.49 9,36	0,7923 02	0,3963 4	13,0687	0	24,374 7	1,1655 5
1	0,11	4,6973	12,50 01	113.91 9,48	0,8309 36	0,4156 55	13,5445	0	23,290 9	1,1661 4
1	0,12	4,92547	12,50 02	109.02 3,36	0,8679 19	0,4341 45	13,956	0	22,344 1	1,1666 7
1	0,13	5,1448	12,50 02	104.68 2,64	0,9034 4	0,4519 03	14,3162	0	21,508	1,1671 6

1	0,14	5,356	12,50	100.80	0,9376	0,4689	14,6344	0	20,763	1,1676
			03	3,48	27	93			4	1
1	0,15	5,56004	12,50	97.307,	0,9706	0,4854	14,9184	0	20,094	1,1680
			03	18	39	95			4	2
1	0,16	5,75776	12,50	94.132,	1,0026	0,5014	15,174	0	19,488	1,1684
			03	34	1	79			7	
1	0,17	5,94946	12,50	91.235,	1,0336	0,5169	15,4052	0	18,937	1,1687
			04	89	1	72			5	5
1	0,18	6,13559	12,50	88.579,	1,0637	0,5320	15,6156	0	18,433	1,1690
			04	92		13			2	8
1	0,19	6,31675	12,50	86.131,	1,0929	0,5466	15,8083	0	17,969	1,1693
			05	26	8	49			4	9
1	0,2	6,4934	12,50	83.862,	1,1215	0,5609	15,9857	0	17,540	1,1696
			05	98	3	2			5	8
1	0,212	6,69988	12,50	81.349,	1,1549	0,5775	16,181	0	17,066	1,17
			05	70		99			3	
1	0,226	6,94097	12,50	78.588,	1,1938	0,5970	16,394	0	16,546	1,1703
	4		06	46	5	69			4	6
1	0,243	7,22102	12,50	75.593,	1,2391	0,6196	16,6234	0	15,983	1,1707
	68		07	00		84			9	5
1	0,264	7,54526	12,50	72.380,	1,2915	0,6458	16,8674	0	15,382	1,1711
	416		07	08		68				8
1	0,289	7,91905	12,50	68.976,	1,3519	0,6760	17,1237	0	14,746	1,1716
	299		08	94	1	6			3	4
1	0,319	8,34864	12,50	65.413,	1,4213	0,7107	17,3895	0	14,082	1,1721
	159		09	80	6	7			7	3
1	0,354	8,83992	12,50	61.732,	1,5008	0,7504	17,6617	0	13,399	1,1726
	991		1	19	5	91			1	4
1	0,397	9,39917	12,50	57.976,	1,5914	0,7957	17,9367	0	12,703	1,1731
	989		1	05	5	61			8	7
1	0,449	10,0342	12,50	54.183,	1,6944	0,8472	18,2116	0	12,004	1,1737
	587		1	85	8	47				2
1	0,511	10,7537	12,50	50.393,	1,8114	0,9056	18,4838	0	11,306	1,1742
	504		09	67	6	94			8	7
1	0,585	11,5664	12,50	46.643,	1,9439	0,9719	18,7505	0	10,619	1,1748
	805		06	82	8	05			2	2
1	0,674	12,4817	12,50	42.969,	2,0938	1,0467	19,0094	0	9,9475	1,1753
	966		01	99		6			5	7

1	0,781 959	13,5101	12,49 9	39.401, 18	2,2629 9	1,1312 8	19,2586	0	9,2970 3	1,1759 1
1	0,910 351	14,6635	12,49 72	35.961, 23	2,4539 3	1,2266 7	19,4967	0	8,6717 6	1,1764 3
1	1,064 42	15,9533	12,49 41	32.670, 71	2,6692 6	1,3342 4	19,7225	0	8,0752	1,1769 4
1	1,249 31	17,3927	12,48 91	29.543, 49	2,9121 3	1,4555 6	19,9355	0	7,5095 7	1,1774 3
1	1,471 17	18,9972	12,48 12	26.586, 31	3,187	1,5928 7	20,2383	0	6,9757 7	1,1775 3
1	1,724 58	20,7014	12,46 96	23.921, 22	3,4849 3	1,7416 9	20,7399	0	6,4954 3	1,1768 1
1	1,737 4	20,7845	12,46 9	23.801, 86	3,4995 9	1,7490 1	20,7624	0	6,4739 3	1,1767 7
1	2,056 88	22,7521	12,45 07	21.197, 50	3,8537 4	1,9259 1	21,2531	0	6,0049 8	1,1760 7
1	2,440 26	24,9258	12,42 47	18.767, 03	4,2569 9	2,1273 3	21,7116	0	5,5674 7	1,1754 1
1	2,900 31	27,3503	12,38 97	16.505, 71	4,7184 7	2,3578 5	22,1386	0	5,1602 2	1,1748
1	3,452 37	30,0884	12,34 4	14.414, 41	5,2480 7	2,6224	22,5338	0	4,7830 5	1,1742 4
1	4,114 84	33,1544	12,28 44	12.518, 17	5,8487	2,9224 4	22,8923	0	4,4399 7	1,1737 4
1	4,909 81	36,5746	12,20 71	10.831, 39	6,5205 1	3,2580 5	23,2113	0	4,1330 3	1,1732 9
1	5,863 77	40,3979	12,10 82	9.339,0 4	7,2707 5	3,6328 6	23,4935	0	3,8589 7	1,1729 1
1	7,008 53	44,6804	11,98 24	8.019,8 1	8,1116 7	4,0529 9	23,7427	0	3,6134 4	1,1725 7
1	8,382 23	49,4816	11,82 37	6.853,8 3	9,0600 9	4,5268 6	23,9627	0	3,3923 3	1,1722 8
1	9,334 48	52,6431	11,71 01	6.220,5 4	9,6899 5	4,8415 8	24,0819	0	3,2700 4	1,1721 3
2	120,9 68	0	12,5	999.99 9,41	0,0540 911	0,0270 316	-133,705	0	300	1,5117 5
2	120,9	1,18915	12,5	347.60	0,2533	0,1267	-14,4907	0	73,611	1,1700

	78			9,17	43	86			8	9
2	120,9 88	1,80367	12,5	257.01 3,61	0,3568 12	0,1785 51	-1,28001	0	52,830 1	1,1596 6
2	120,9 98	2,28038	12,5	213.52 3,66	0,4359	0,2181 13	3,78094	0	43,452 4	1,1597 8
2	121,0 08	2,68477	12,5	186.59 6,80	0,5026 15	0,2514 81	6,70887	0	37,826 8	1,1605 3
2	121,0 18	3,04247	12,5	167.79 0,06	0,5613 56	0,2808 59	8,61883	0	33,976 5	1,1615 2
2	121,0 28	3,36717	12,5	153.66 8,00	0,6144 97	0,3074 34	9,98499	0	31,126 8	1,1624 9
2	121,0 38	3,66666	12,5	142.55 3,80	0,6633 86	0,3318 81	11,0214	0	28,908 6	1,1633 8
2	121,0 48	3,94617	12,5	133.50 4,70	0,7089 22	0,3546 5	11,841	0	27,118 2	1,1641 8
2	121,0 58	4,20946	12,50 01	125.94 3,65	0,7517 43	0,3760 61	12,5098	0	25,633	1,1649
2	121,0 68	4,45917	12,50 01	119.49 9,36	0,7923 02	0,3963 4	13,0687	0	24,374 7	1,1655 5
2	121,0 78	4,6973	12,50 01	113.91 9,48	0,8309 36	0,4156 55	13,5445	0	23,290 9	1,1661 4
2	121,0 88	4,92547	12,50 02	109.02 3,36	0,8679 19	0,4341 45	13,956	0	22,344 1	1,1666 7
2	121,0 98	5,1448	12,50 02	104.68 2,64	0,9034 4	0,4519 03	14,3162	0	21,508	1,1671 6
2	121,1 08	5,356	12,50 03	100.80 3,48	0,9376 27	0,4689 93	14,6344	0	20,763 4	1,1676 1
2	121,1 18	5,56004	12,50 03	97.307, 18	0,9706 39	0,4854 95	14,9184	0	20,094 4	1,1680 2
2	121,1 28	5,75776	12,50 03	94.132, 34	1,0026 1	0,5014 79	15,174	0	19,488 7	1,1684
2	121,1 38	5,94946	12,50 04	91.235, 89	1,0336 1	0,5169 72	15,4052	0	18,937 5	1,1687 5
2	121,1 48	6,13559	12,50 04	88.579, 92	1,0637	0,5320 13	15,6156	0	18,433 2	1,1690 8
2	121,1 58	6,31675	12,50 05	86.131, 26	1,0929 8	0,5466 49	15,8083	0	17,969 4	1,1693 9
2	121,1	6,4934	12,50	83.862,	1,1215	0,5609	15,9857	0	17,540	1,1696

	68		05	98	3	2			5	8
2	121,1 8	6,69988	12,50 05	81.349, 70	1,1549	0,5775 99	16,181	0	17,066 3	1,17
2	121,1 94	6,94097	12,50 06	78.588, 46	1,1938 5	0,5970 69	16,394	0	16,546 4	1,1703 6
2	121,2 12	7,22102	12,50 07	75.593, 00	1,2391	0,6196 84	16,6234	0	15,983 9	1,1707 5
2	121,2 32	7,54526	12,50 07	72.380, 08	1,2915	0,6458 68	16,8674	0	15,382	1,1711 8
2	121,2 57	7,91905	12,50 08	68.976, 94	1,3519 1	0,6760 6	17,1237	0	14,746 3	1,1716 4
2	121,2 87	8,34864	12,50 09	65.413, 80	1,4213 6	0,7107 7	17,3895	0	14,082 7	1,1721 3
2	121,3 23	8,83992	12,50 1	61.732, 19	1,5008 5	0,7504 91	17,6617	0	13,399 1	1,1726 4
2	121,3 66	9,39917	12,50 1	57.976, 05	1,5914 5	0,7957 61	17,9367	0	12,703 8	1,1731 7
2	121,4 17	10,0342	12,50 1	54.183, 85	1,6944 8	0,8472 47	18,2116	0	12,004	1,1737 2
2	121,4 79	10,7537	12,50 09	50.393, 67	1,8114 6	0,9056 94	18,4838	0	11,306 8	1,1742 7
2	121,5 54	11,5664	12,50 06	46.643, 82	1,9439 8	0,9719 05	18,7505	0	10,619 2	1,1748 2
2	121,6 43	12,4817	12,50 01	42.969, 99	2,0938	1,0467 6	19,0094	0	9,9475 5	1,1753 7
2	121,7 5	13,5101	12,49 9	39.401, 18	2,2629 9	1,1312 8	19,2586	0	9,2970 3	1,1759 1
2	121,8 78	14,6635	12,49 72	35.961, 23	2,4539 3	1,2266 7	19,4967	0	8,6717 6	1,1764 3
2	122,0 32	15,9533	12,49 41	32.670, 71	2,6692 6	1,3342 4	19,7225	0	8,0752	1,1769 4
2	122,2 17	17,3927	12,48 91	29.543, 49	2,9121 3	1,4555 6	19,9355	0	7,5095 7	1,1774 3
2	122,4 39	18,9972	12,48 12	26.586, 31	3,187	1,5928 7	20,2383	0	6,9757 7	1,1775 3
2	122,6 92	20,7014	12,46 96	23.921, 22	3,4849 3	1,7416 9	20,7399	0	6,4954 3	1,1768 1
2	122,7	20,7845	12,46	23.801,	3,4995	1,7490	20,7624	0	6,4739	1,1767

	05		9	86	9	1			3	7
2	123,0 25	22,7521	12,45 07	21.197, 50	3,8537 4	1,9259 1	21,2531	0	6,0049 8	1,1760 7
2	123,4 08	24,9258	12,42 47	18.767, 03	4,2569 9	2,1273 3	21,7116	0	5,5674 7	1,1754 1
2	123,8 68	27,3503	12,38 97	16.505, 71	4,7184 7	2,3578 5	22,1386	0	5,1602 2	1,1748
2	124,4 2	30,0884	12,34 4	14.414, 41	5,2480 7	2,6224	22,5338	0	4,7830 5	1,1742 4
2	125,0 83	33,1544	12,28 44	12.518, 17	5,8487	2,9224 4	22,8923	0	4,4399 7	1,1737 4
2	125,8 78	36,5746	12,20 71	10.831, 39	6,5205 1	3,2580 5	23,2113	0	4,1330 3	1,1732 9
2	126,8 32	40,3979	12,10 82	9.339,0 4	7,2707 5	3,6328 6	23,4935	0	3,8589 7	1,1729 1
2	127,9 76	44,6804	11,98 24	8.019,8 1	8,1116 7	4,0529 9	23,7427	0	3,6134 4	1,1725 7
2	129,3 5	49,4816	11,82 37	6.853,8 3	9,0600 9	4,5268 6	23,9627	0	3,3923 3	1,1722 8
2	130,3 02	52,6431	11,71 01	6.220,5 4	9,6899 5	4,8415 8	24,0819	0	3,2700 4	1,1721 3

Weather: Category 5/D

Wind speed [m/s]	5
Pasquill stability	D neutral - little sun and high wind or overcast/windy night
Atmospheric temperature [degC]	25
Relative humidity [fraction]	0,75
Solar radiation flux [kW/m2]	0,5
Mixing layer height [m]	800

Observer Release Data and Observer Mass Data

Observer number	Release type	Start time [s]	Start downwind distance [m]	Unit	Masses or mass rates		
					Release	Rainout	Final
1	Continuous	0	0	kg/s	1,32626	0	1,32626
2	Continuous	120,968	0	kg/s	1,32626	0	1,32626

Time-varying Observer Dispersion Data (before along-wind-diffusion effects)

Dispersion data correspond to an averaging time of: 18,75 s

Observer number	Time [s]	Down wind distance [m]	C/Line height [m]	C/Line conc [ppm]	Effective width [m]	Effective depth [m]	C/Line vapour temperature [degC]	C/Line liquid fraction	Centroid velocity [m/s]	C/Line cloud density [kg/m3]
1	0	0	12,5	999.999,41	0,0541189	0,0270177	-133,705	0	300	1,51175
1	0,01	1,20506	12,5	345.559,16	0,251074	0,125537	-14,8059	0	75,3825	1,17265
1	0,02	1,83833	12,5	253.842,41	0,353215	0,176608	-1,43901	0	54,6073	1,16202
1	0,03	2,33327	12,5	209.78	0,4311	0,2155	3,67752	0	45,232	1,1621

				0,64	56	78			1	4
1	0,04	2,75541	12,5	182.48 9,39	0,4968 4	0,2484 2	6,63685	0	39,608 1	1,1629 2
1	0,05	3,13098	12,5	163.40 2,27	0,5547 08	0,2773 54	8,56865	0	35,754 5	1,1639 3
1	0,06	3,47406	12,5	149.03 9,52	0,6071 63	0,3035 81	9,95258	0	32,897	1,1649 3
1	0,07	3,79195	12,5	137.72 8,14	0,6554 65	0,3277 33	11,0026	0	30,671 6	1,1658 4
1	0,08	4,08938	12,5	128.52 5,90	0,7004 33	0,3502 17	11,8321	0	28,877 1	1,1666 7
1	0,09	4,37025	12,50 01	120.84 0,71	0,7427 14	0,3713 57	12,5085	0	27,389 4	1,1674 1
1	0,1	4,63721	12,50 01	114.29 4,56	0,7827 52	0,3913 76	13,0732	0	26,129 8	1,1680 8
1	0,11	4,89236	12,50 01	108.62 7,53	0,8208 96	0,4104 48	13,5538	0	25,045 2	1,1686 8
1	0,12	5,13739	12,50 02	103.65 5,62	0,8574 2	0,4287 1	13,9693	0	24,097 8	1,1692 3
1	0,13	5,37361	12,50 02	99.245, 03	0,8925 39	0,4462 7	14,3331	0	23,260 8	1,1697 3
1	0,14	5,60195	12,50 02	95.297, 63	0,9264 09	0,4632 04	14,6551	0	22,514 4	1,1701 9
1	0,15	5,82335	12,50 02	91.735, 57	0,9591 78	0,4795 89	14,9426	0	21,842 9	1,1706 1
1	0,16	6,03844	12,50 03	88.500, 00	0,9909 53	0,4954 77	15,2014	0	21,234 8	1,171
1	0,17	6,24764	12,50 03	85.545, 60	1,0218 1	0,5109 03	15,4358	0	20,681	1,1713 7
1	0,18	6,45152	12,50 03	82.832, 96	1,0518 3	0,5259 15	15,6494	0	20,173 7	1,1717
1	0,19	6,65053	12,50 04	80.330, 23	1,0811	0,5405 48	15,845	0	19,706 7	1,1720 2
1	0,2	6,84505	12,50 04	78.011, 61	1,1096 7	0,5548 33	16,0252	0	19,274 9	1,1723 2
1	0,212	7,07327	12,50 04	75.439, 76	1,1431 4	0,5715 68	16,2237	0	18,797	1,1726 5
1	0,226	7,34001	12,50	72.618,	1,1822	0,5911	16,4398	0	18,273	1,1730

	4		05	85					9	2
1	0,243 68	7,65114	12,50 05	69.556, 81	1,2276 8	0,6138 42	16,6727	0	17,707 6	1,1734 3
1	0,264 416	8,0124	12,50 06	66.275, 32	1,2804 1	0,6402 07	16,9201	0	17,102 3	1,1738 7
1	0,289 299	8,43057	12,50 06	62.800, 79	1,3413 5	0,6706 77	17,1799	0	16,463 2	1,1743 4
1	0,319 159	8,91249	12,50 07	59.169, 89	1,4114 9	0,7057 45	17,4488	0	15,797 3	1,1748 5
1	0,354 991	9,46588	12,50 07	55.423, 03	1,4919 4	0,7459 73	17,7237	0	15,112 2	1,1753 7
1	0,397 989	10,1001	12,50 06	51.599, 06	1,5840 7	0,7920 37	18,0015	0	14,415 3	1,1759 2
1	0,449 587	10,8256	12,50 05	47.739, 11	1,6894 1	0,8447 04	18,2793	0	13,714 1	1,1764 8
1	0,511 504	11,653	12,50 03	43.887, 90	1,8095 7	0,9047 88	18,5537	0	13,016 6	1,1770 4
1	0,585 805	12,5943	12,49 98	40.086, 78	1,9464 6	0,9732 34	18,8219	0	12,330 5	1,1776 1
1	0,674 966	13,6638	12,49 9	36.371, 15	2,1023 6	1,0511 8	19,0817	0	11,661 8	1,1781 7
1	0,781 959	14,8777	12,49 76	32.772, 89	2,2799 2	1,1399 6	19,3309	0	11,016 1	1,1787 2
1	0,910 351	16,2521	12,49 53	29.322, 02	2,4820 9	1,2410 5	19,5679	0	10,398 7	1,1792 5
1	1,064 42	17,8079	12,49 16	26.038, 11	2,7134 1	1,3567 1	19,9577	0	9,8125 9	1,1791 7
1	1,185 65	18,9738	12,48 81	23.921, 22	2,8889	1,4444 6	20,3553	0	9,4355 4	1,1785 9
1	1,249 31	19,5688	12,48 6	22.936, 75	2,9789 6	1,4894 8	20,5403	0	9,2603 8	1,1783 3
1	1,471 17	21,5659	12,47 8	20.029, 70	3,2837	1,6418 5	21,0873	0	8,7438 3	1,1775 4
1	1,737 4	23,8362	12,46 7	17.327, 23	3,6345 9	1,8173	21,5965	0	8,2644 4	1,1768 1
1	2,056 88	26,413	12,45 22	14.840, 41	4,0396 1	2,0198 1	22,0658	0	7,8238 8	1,1761 3
1	2,440	29,3398	12,43	12.574, 4,5088	2,2544	22,494	0	7,4227	1,1755	

	26		3	23	6	4			1	2
1	2,460 91	29,493	12,43 19	12.468, 89	4,5337 2	2,2668 6	22,5139	0	7,4040 6	1,1754 9
2	120,9 68	0	12,5	999.99 9,41	0,0541 189	0,0270 177	-133,705	0	300	1,5117 5
2	120,9 78	1,20506	12,5	345.55 9,16	0,2510 74	0,1255 37	-14,8059	0	75,382 5	1,1726 5
2	120,9 88	1,83833	12,5	253.84 2,41	0,3532 15	0,1766 08	-1,43901	0	54,607 3	1,1620 2
2	120,9 98	2,33327	12,5	209.78 0,64	0,4311 56	0,2155 78	3,67752	0	45,232 1	1,1621 4
2	121,0 08	2,75541	12,5	182.48 9,39	0,4968 4	0,2484 2	6,63685	0	39,608 1	1,1629 2
2	121,0 18	3,13098	12,5	163.40 2,27	0,5547 08	0,2773 54	8,56865	0	35,754 5	1,1639 3
2	121,0 28	3,47406	12,5	149.03 9,52	0,6071 63	0,3035 81	9,95258	0	32,897	1,1649 3
2	121,0 38	3,79195	12,5	137.72 8,14	0,6554 65	0,3277 33	11,0026	0	30,671 6	1,1658 4
2	121,0 48	4,08938	12,5	128.52 5,90	0,7004 33	0,3502 17	11,8321	0	28,877 1	1,1666 7
2	121,0 58	4,37025	12,50 01	120.84 0,71	0,7427 14	0,3713 57	12,5085	0	27,389 4	1,1674 1
2	121,0 68	4,63721	12,50 01	114.29 4,56	0,7827 52	0,3913 76	13,0732	0	26,129 8	1,1680 8
2	121,0 78	4,89236	12,50 01	108.62 7,53	0,8208 96	0,4104 48	13,5538	0	25,045 2	1,1686 8
2	121,0 88	5,13739	12,50 02	103.65 5,62	0,8574 2	0,4287 1	13,9693	0	24,097 8	1,1692 3
2	121,0 98	5,37361	12,50 02	99.245, 03	0,8925 39	0,4462 7	14,3331	0	23,260 8	1,1697 3
2	121,1 08	5,60195	12,50 02	95.297, 63	0,9264 09	0,4632 04	14,6551	0	22,514 4	1,1701 9
2	121,1 18	5,82335	12,50 02	91.735, 57	0,9591 78	0,4795 89	14,9426	0	21,842 9	1,1706 1
2	121,1 28	6,03844	12,50 03	88.500, 00	0,9909 53	0,4954 77	15,2014	0	21,234 8	1,171

2	121,1 38	6,24764	12,50 03	85.545, 60	1,0218 1	0,5109 03	15,4358	0	20,681	1,1713 7
2	121,1 48	6,45152	12,50 03	82.832, 96	1,0518 3	0,5259 15	15,6494	0	20,173 7	1,1717
2	121,1 58	6,65053	12,50 04	80.330, 23	1,0811	0,5405 48	15,845	0	19,706 7	1,1720 2
2	121,1 68	6,84505	12,50 04	78.011, 61	1,1096 7	0,5548 33	16,0252	0	19,274 9	1,1723 2
2	121,1 8	7,07327	12,50 04	75.439, 76	1,1431 4	0,5715 68	16,2237	0	18,797	1,1726 5
2	121,1 94	7,34001	12,50 05	72.618, 85	1,1822	0,5911	16,4398	0	18,273 9	1,1730 2
2	121,2 12	7,65114	12,50 05	69.556, 81	1,2276 8	0,6138 42	16,6727	0	17,707 6	1,1734 3
2	121,2 32	8,0124	12,50 06	66.275, 32	1,2804 1	0,6402 07	16,9201	0	17,102 3	1,1738 7
2	121,2 57	8,43057	12,50 06	62.800, 79	1,3413 5	0,6706 77	17,1799	0	16,463 2	1,1743 4
2	121,2 87	8,91249	12,50 07	59.169, 89	1,4114 9	0,7057 45	17,4488	0	15,797 3	1,1748 5
2	121,3 23	9,46588	12,50 07	55.423, 03	1,4919 4	0,7459 73	17,7237	0	15,112 2	1,1753 7
2	121,3 66	10,1001	12,50 06	51.599, 06	1,5840 7	0,7920 37	18,0015	0	14,415 3	1,1759 2
2	121,4 17	10,8256	12,50 05	47.739, 11	1,6894 1	0,8447 04	18,2793	0	13,714 1	1,1764 8
2	121,4 79	11,653	12,50 03	43.887, 90	1,8095 7	0,9047 88	18,5537	0	13,016 6	1,1770 4
2	121,5 54	12,5943	12,49 98	40.086, 78	1,9464 6	0,9732 34	18,8219	0	12,330 5	1,1776 1
2	121,6 43	13,6638	12,49 9	36.371, 15	2,1023 6	1,0511 8	19,0817	0	11,661 8	1,1781 7
2	121,7 5	14,8777	12,49 76	32.772, 89	2,2799 2	1,1399 6	19,3309	0	11,016 1	1,1787 2
2	121,8 78	16,2521	12,49 53	29.322, 02	2,4820 9	1,2410 5	19,5679	0	10,398 7	1,1792 5
2	122,0 32	17,8079	12,49 16	26.038, 11	2,7134 1	1,3567 1	19,9577	0	9,8125 9	1,1791 7

2	122,153	18,9738	12,4881	23.921,22	2,88896	1,4444	20,3553	0	9,43554	1,17859
2	122,217	19,5688	12,486	22.936,75	2,97896	1,48948	20,5403	0	9,26038	1,17833
2	122,439	21,5659	12,478	20.029,70	3,28375	1,64185	21,0873	0	8,74383	1,17754
2	122,705	23,8362	12,467	17.327,23	3,63459	1,8173	21,5965	0	8,26444	1,17681
2	123,025	26,413	12,4522	14.840,41	4,03961	2,01981	22,0658	0	7,82388	1,17613
2	123,408	29,3398	12,433	12.574,23	4,50886	2,25444	22,494	0	7,42271	1,17552
2	123,429	29,493	12,4319	12.468,89	4,53372	2,26686	22,5139	0	7,40406	1,17549

