

Dispersion Report

Workspace: 72341-2FSRURegas

Study: FSRU in rigassificazione

Equipment Item: 9R Compressore BOG LD

72341-2FSRURegas\FSRU in rigassificazione\9R Compressore BOG LD

Material	GAS NATURALE	
East	0	m
North	0	m

Scenario (Leak) : 75mm

72341-2FSRURegas\FSRU in rigassificazione\9R Compressore BOG LD\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	3,96329	0	3,96329
2	Continuous	9,77671	0	kg/s	3,96329	0	3,96329

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	0,1369 74	0,0685 569	21,2178	0	300	0,7034 22
1	0,01	1,34002	12,50 01	406.57 2,05	0,3981 12	0,1992 1	23,4008	0	88,127 4	0,9829 69
1	0,02	2,08406	12,50 04	310.23 2,90	0,5318 47	0,2660 99	23,8145	0	64,824 2	1,0277
1	0,03	2,67074	12,50 07	261.80 7,94	0,6352 81	0,3178 25	24,0299	0	53,886 1	1,0501
1	0,04	3,1731	12,50 1	231.03 1,30	0,7229 33	0,3616 53	24,1695	0	47,182 7	1,0643 1
1	0,05	3,61918	12,50 14	209.21 6,11	0,8002 2	0,4002 95	24,2698	0	42,542 7	1,0743 7
1	0,06	4,02562	12,50 19	192.63 6,24	0,8702 97	0,4353 3	24,3467	0	39,076 3	1,0820 1
1	0,07	4,40186	12,50 24	179.45 6,34	0,9349 32	0,4676 42	24,4083	0	36,356 8	1,0880 7
1	0,08	4,75383	12,50 29	168.64 4,94	0,9952 29	0,4977 83	24,4592	0	34,149 6	1,0930 4
1	0,09	5,08592	12,50 35	159.55 8,42	1,0519 9	0,5261 57	24,5021	0	32,310 6	1,0972 2
1	0,1	5,40128	12,50 41	151.77 6,45	1,1058	0,5530 52	24,5391	0	30,747 2	1,1008
1	0,11	5,70227	12,50 47	145.01 1,16	1,1570 8	0,5786 84	24,5714	0	29,396 7	1,1039
1	0,12	5,99053	12,50 54	139.06 1,18	1,2061 4	0,6032 02	24,5998	0	28,215 5	1,1066 4
1	0,13	6,26763	12,50 61	133.77 2,18	1,2532 5	0,6267 47	24,6252	0	27,170 6	1,1090 6

1	0,14	6,53475	12,50	129.02	1,2986	0,6494	24,648	0	26,237	1,1112
			68	9,87	3	26			8	4
1	0,15	6,79292	12,50	124.74	1,3424	0,6713	24,6686	0	25,398	1,1132
			76	5,08	6	32			2	1
1	0,16	7,04308	12,50	120.84	1,3849	0,6925	24,6875	0	24,637	1,1149
			83	6,88	1	46			1	9
1	0,17	7,28597	12,50	117.27	1,4261	0,7131	24,7047	0	23,942	1,1166
			91	9,32	2	38			8	3
1	0,18	7,52229	12,50	113.99	1,4662	0,7331	24,7206	0	23,305	1,1181
			99	6,64		66			8	3
1	0,19	7,75258	12,51	110.96	1,5052	0,7526	24,7354	0	22,718	1,1195
			08	2,32	5	79			6	2
1	0,2	7,97731	12,51	108.14	1,5433	0,7717	24,7491	0	22,175	1,1208
			16	6,01	5	19				2
1	0,212	8,24017	12,51	105.01	1,5879	0,7939	24,7643	0	21,573	1,1222
			27	9,50	2	89				5
1	0,226	8,54632	12,51	101.58	1,6398	0,8199	24,7811	0	20,914	1,1238
	4		4	7,17	3	27				2
1	0,243	8,90199	12,51	97.856,	1,7001	0,8500	24,7993	0	20,2	1,1255
	68		56	60	5	66				3
1	0,264	9,31315	12,51	93.852,	1,7699	0,8849	24,819	0	19,436	1,1273
	416		76	83		2			2	6
1	0,289	9,78676	12,52	89.605,	1,8503	0,9250	24,8398	0	18,628	1,1293
	299		01	11	1	94			8	1
1	0,319	10,3302	12,52	85.152,	1,9426	0,9712	24,8617	0	17,785	1,1313
	159		32	20	6	36			5	4
1	0,354	10,9517	12,52	80.537,	2,0484	1,0240	24,8845	0	16,914	1,1334
	991		72	46	2	8			9	5
1	0,397	11,6603	12,53	75.808,	2,1692	1,0844	24,908	0	16,026	1,1356
	989		22	72	1	2			5	2
1	0,449	12,4642	12,53	71.022,	2,3066	1,1530	24,9317	0	15,131	1,1378
	587		85	38	3	7				
1	0,511	13,3706	12,54	66.241,	2,4621	1,2307	24,9556	0	14,240	1,1399
	504		65	60	4	6			3	9
1	0,585	14,3901	12,55	61.508,	2,6379	1,3185	24,9792	0	13,362	1,1421
	805		67	69		6			3	5
1	0,674	15,5376	12,56	56.852,	2,8368	1,4179	25,0026	0	12,502	1,1442
	966		97	15	1	2			1	8

1	0,781 959	16,8245	12,58 63	52.314, 23	3,0614 4	1,5301 3	25,0255	0	11,667 5	1,1463 5
1	0,910 351	18,2615	12,60 75	47.932, 51	3,3145 2	1,6565 5	25,0476	0	10,865 1	1,1483 4
1	1,064 42	19,8678	12,63 46	43.720, 34	3,6002 9	1,7992 9	25,0691	0	10,097 2	1,1502 6
1	1,249 31	21,6525	12,66 92	39.708, 98	3,9220 1	1,9599 9	25,0896	0	9,3693 3	1,1520 9
1	1,471 17	23,6425	12,71 33	35.895, 24	4,2858 7	2,1417 4	25,1093	0	8,6806 5	1,1538 2
1	1,737 4	25,8557	12,76 96	32.292, 01	4,6974 3	2,3473 2	25,1281	0	8,0334 1	1,1554 5
1	2,056 88	28,3103	12,84 11	28.906, 92	5,1631 7	2,5799 8	25,146	0	7,4289 3	1,1569 9
1	2,440 26	31,037	12,93 17	25.747, 36	5,6898 9	2,8430 9	25,1629	0	6,8685 5	1,1584 1
1	2,714 98	32,872	12,99 95	23.921, 22	6,0465 7	3,0212 7	25,1729	0	6,5468 3	1,1592 3
1	2,900 31	34,0607	13,04 66	22.849, 57	6,2775 9	3,1366 8	25,1788	0	6,3589 1	1,1597 1
1	3,452 37	37,3923	13,19 26	20.221, 84	6,9269 5	3,4610 9	25,1937	0	5,9017 3	1,1608 8
1	4,114 84	41,1493	13,37 54	17.815, 79	7,6529 8	3,8238 1	25,2077	0	5,4885 1	1,1619 5
1	4,909 81	45,368	13,60 43	15.619, 42	8,4647 4	4,2293 7	25,2212	0	5,1176 3	1,1629 1
1	5,863 77	50,0972	13,89 07	13.619, 66	9,3727 4	4,6830 8	25,2343	0	4,7874 2	1,1637 7
1	7,008 53	55,4095	14,24 74	11.801, 92	10,390 6	5,1917	25,2471	0	4,4960 6	1,1645 3
1	8,382 23	61,388	14,68 95	10.154, 30	11,533 7	5,7628 8	25,2598	0	4,2424 1	1,1652 1
1	10,03 07	68,157	15,23 37	8.664,8 3	12,821 4	6,4064 2	25,2727	0	4,0253 7	1,1657 9
1	12,00 88	75,9065	15,89 65	7.322,8 5	14,278 8	7,1347 7	25,2859	0	3,8439 9	1,1662 8
1	13,98 95	83,3866	16,56 36	6.298,4 9	15,663 3	7,8267 6	25,2974	0	3,7183 2	1,1666 3

2	9,776 71	0	12,5	999.99 9,41	0,1369 74	0,0685 569	21,2178	0	300	0,7034 22
2	9,786 71	1,34002	12,50 01	406.57 2,05	0,3981 12	0,1992 1	23,4008	0	88,127 4	0,9829 69
2	9,796 71	2,08406	12,50 04	310.23 2,90	0,5318 47	0,2660 99	23,8145	0	64,824 2	1,0277
2	9,806 71	2,67074	12,50 07	261.80 7,94	0,6352 81	0,3178 25	24,0299	0	53,886 1	1,0501
2	9,816 71	3,1731	12,50 1	231.03 1,30	0,7229 33	0,3616 53	24,1695	0	47,182 7	1,0643 1
2	9,826 71	3,61918	12,50 14	209.21 6,11	0,8002 2	0,4002 95	24,2698	0	42,542 7	1,0743 7
2	9,836 71	4,02562	12,50 19	192.63 6,24	0,8702 97	0,4353 3	24,3467	0	39,076 3	1,0820 1
2	9,846 71	4,40186	12,50 24	179.45 6,34	0,9349 32	0,4676 42	24,4083	0	36,356 8	1,0880 7
2	9,856 71	4,75383	12,50 29	168.64 4,94	0,9952 29	0,4977 83	24,4592	0	34,149 6	1,0930 4
2	9,866 71	5,08592	12,50 35	159.55 8,42	1,0519 9	0,5261 57	24,5021	0	32,310 6	1,0972 2
2	9,876 71	5,40128	12,50 41	151.77 6,45	1,1058	0,5530 52	24,5391	0	30,747 2	1,1008
2	9,886 71	5,70227	12,50 47	145.01 1,16	1,1570 8	0,5786 84	24,5714	0	29,396 7	1,1039
2	9,896 71	5,99053	12,50 54	139.06 1,18	1,2061 4	0,6032 02	24,5998	0	28,215 5	1,1066 4
2	9,906 71	6,26763	12,50 61	133.77 2,18	1,2532 5	0,6267 47	24,6252	0	27,170 6	1,1090 6
2	9,916 71	6,53475	12,50 68	129.02 9,87	1,2986 3	0,6494 26	24,648	0	26,237 8	1,1112 4
2	9,926 71	6,79292	12,50 76	124.74 5,08	1,3424 6	0,6713 32	24,6686	0	25,398 2	1,1132 1
2	9,936 71	7,04308	12,50 83	120.84 6,88	1,3849 1	0,6925 46	24,6875	0	24,637 1	1,1149 9
2	9,946 71	7,28597	12,50 91	117.27 9,32	1,4261 2	0,7131 38	24,7047	0	23,942 8	1,1166 3
2	9,956	7,52229	12,50	113.99	1,4662	0,7331	24,7206	0	23,305	1,1181

	71		99	6,64		66			8	3
2	9,966 71	7,75258	12,51 08	110.96 2,32	1,5052 5	0,7526 79	24,7354	0	22,718 6	1,1195 2
2	9,976 71	7,97731	12,51 16	108.14 6,01	1,5433 5	0,7717 19	24,7491	0	22,175	1,1208 2
2	9,988 71	8,24017	12,51 27	105.01 9,50	1,5879 2	0,7939 89	24,7643	0	21,573	1,1222 5
2	10,00 31	8,54632	12,51 4	101.58 7,17	1,6398 3	0,8199 27	24,7811	0	20,914	1,1238 2
2	10,02 04	8,90199	12,51 56	97.856, 60	1,7001 5	0,8500 66	24,7993	0	20,2	1,1255 3
2	10,04 11	9,31315	12,51 76	93.852, 83	1,7699	0,8849 2	24,819	0	19,436 2	1,1273 6
2	10,06 6	9,78676	12,52 01	89.605, 11	1,8503 1	0,9250 94	24,8398	0	18,628 8	1,1293 1
2	10,09 59	10,3302	12,52 32	85.152, 20	1,9426 6	0,9712 36	24,8617	0	17,785 5	1,1313 4
2	10,13 17	10,9517	12,52 72	80.537, 46	2,0484 2	1,0240 8	24,8845	0	16,914 9	1,1334 5
2	10,17 47	11,6603	12,53 22	75.808, 72	2,1692 1	1,0844 2	24,908	0	16,026 5	1,1356 2
2	10,22 63	12,4642	12,53 85	71.022, 38	2,3066 3	1,1530 7	24,9317	0	15,131	1,1378
2	10,28 82	13,3706	12,54 65	66.241, 60	2,4621 4	1,2307 6	24,9556	0	14,240 3	1,1399 9
2	10,36 25	14,3901	12,55 67	61.508, 69	2,6379	1,3185 6	24,9792	0	13,362 3	1,1421 5
2	10,45 17	15,5376	12,56 97	56.852, 15	2,8368 1	1,4179 2	25,0026	0	12,502 1	1,1442 8
2	10,55 87	16,8245	12,58 63	52.314, 23	3,0614 4	1,5301 3	25,0255	0	11,667 5	1,1463 5
2	10,68 71	18,2615	12,60 75	47.932, 51	3,3145 2	1,6565 5	25,0476	0	10,865 1	1,1483 4
2	10,84 11	19,8678	12,63 46	43.720, 34	3,6002 9	1,7992 9	25,0691	0	10,097 2	1,1502 6
2	11,02 6	21,6525	12,66 92	39.708, 98	3,9220 1	1,9599 9	25,0896	0	9,3693 3	1,1520 9
2	11,24	23,6425	12,71	35.895,	4,2858	2,1417	25,1093	0	8,6806	1,1538

	79		33	24	7	4			5	2
2	11,51 41	25,8557	12,76 96	32.292, 01	4,6974 3	2,3473 2	25,1281	0	8,0334 1	1,1554 5
2	11,83 36	28,3103	12,84 11	28.906, 92	5,1631 7	2,5799 8	25,146	0	7,4289 3	1,1569 9
2	12,21 7	31,037	12,93 17	25.747, 36	5,6898 9	2,8430 9	25,1629	0	6,8685 5	1,1584 1
2	12,49 17	32,872	12,99 95	23.921, 22	6,0465 7	3,0212 7	25,1729	0	6,5468	1,1592 3
2	12,67 7	34,0607	13,04 66	22.849, 57	6,2775 9	3,1366 8	25,1788	0	6,3589	1,1597 1
2	13,22 91	37,3923	13,19 26	20.221, 84	6,9269 5	3,4610 9	25,1937	0	5,9017 3	1,1608 8
2	13,89 16	41,1493	13,37 54	17.815, 79	7,6529 8	3,8238 1	25,2077	0	5,4885 1	1,1619 5
2	14,68 65	45,368	13,60 43	15.619, 42	8,4647	4,2293 7	25,2212	0	5,1176 3	1,1629 1
2	15,64 05	50,0972	13,89 07	13.619, 66	9,3727 4	4,6830 8	25,2343	0	4,7874 2	1,1637 7
2	16,78 52	55,4095	14,24 74	11.801, 92	10,390 6	5,1917	25,2471	0	4,4960 6	1,1645 3
2	18,15 89	61,388	14,68 95	10.154, 30	11,533 7	5,7628 8	25,2598	0	4,2424 1	1,1652
2	19,80 74	68,157	15,23 37	8.664,8 3	12,821 4	6,4064 2	25,2727	0	4,0253 7	1,1657 9
2	21,78 55	75,9065	15,89 65	7.322,8 5	14,278 8	7,1347 7	25,2859	0	3,8439 9	1,1662 8
2	23,76 62	83,3866	16,56 36	6.298,4 9	15,663 3	7,8267 6	25,2974	0	3,7183 2	1,1666 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	3,96329	0	3,96329
2	Continuous	9,77671	0	kg/s	3,96329	0	3,96329

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	0,137044	0,0685219	21,2178	0	300	0,703422
1	0,01	1,35392	12,5001	404.647,70	0,39544	0,19772	23,1868	0	89,7517	0,98476
1	0,02	2,11464	12,5003	307.281,37	0,527601	0,2638	23,563	0	66,4924	1,03017
1	0,03	2,7179	12,50	258.28	0,6297	0,3148	23,7592	0	55,569	1,0529

			07	0,27	42	71			1	4
1	0,04	3,23712	12,50	227.08	0,7163	0,3581	23,8866	0	48,866	1,0674
			1	7,48	55	78			8	1
1	0,05	3,70013	12,50	204.95	0,7927	0,3963	23,9782	0	44,223	1,0776
			14	0,54	9	95			3	7
1	0,06	4,12322	12,50	188.12	0,8620	0,4310	24,0485	0	40,754	1,0854
			19	3,66	99	5			6	6
1	0,07	4,51611	12,50	174.73	0,9260	0,4630	24,1049	0	38,031	1,0916
			24	8,03	76	38			9	5
1	0,08	4,88479	12,50	163.74	0,9858	0,4929	24,1514	0	35,820	1,0967
			29	8,96	2	1			6	3
1	0,09	5,23348	12,50	154.51	1,0421	0,5210	24,1908	0	33,977	1,101
			34	0,08		51			8	
1	0,1	5,56544	12,50	146.59	1,0955	0,5477	24,2246	0	32,410	1,1046
			4	3,54		51			6	6
1	0,11	5,88298	12,50	139.70	1,1464	0,5732	24,2542	0	31,056	1,1078
			46	8,69	4	21			4	4
1	0,12	6,18785	12,50	133.64	1,1952	0,5976	24,2803	0	29,871	1,1106
			53	9,32	3	14			2	4
1	0,13	6,48156	12,50	128.26	1,2421	0,6210	24,3036	0	28,822	1,1131
			59	0,41	4	68			3	2
1	0,14	6,7652	12,50	123.42	1,2873	0,6436	24,3245	0	27,885	1,1153
			66	7,69	6	78			9	5
1	0,15	7,0399	12,50	119.05	1,3310	0,6655	24,3435	0	27,042	1,1173
			73	9,06	9	44			7	7
1	0,16	7,3065	12,50	115.08	1,3734	0,6867	24,3607	0	26,278	1,1192
			81	4,33	7	37			4	
1	0,17	7,56576	12,50	111.44	1,4146	0,7073	24,3766	0	25,581	1,1208
			88	6,28	5	25				8
1	0,18	7,8184	12,50	108.09	1,4547	0,7273	24,3912	0	24,941	1,1224
			96	8,46	4	68			2	2
1	0,19	8,06497	12,51	105.00	1,4938	0,7469	24,4048	0	24,351	1,1238
			04	3,48	3	14			4	5
1	0,2	8,30594	12,51	102.13	1,532	0,7660	24,4173	0	23,805	1,1251
			12	0,62		02			3	7
1	0,212	8,5883	12,51	98.940,	1,5767	0,7883	24,4313	0	23,200	1,1266
			22	26	1	56			4	4
1	0,226	8,918	12,51	95.435,	1,6288	0,8144	24,4467	0	22,537	1,1282

	4		34	17	8	41			7	5
1	0,243 68	9,30158	12,51 49	91.627, 43	1,6895 5	0,8447 77	24,4635	0	21,820 1	1,1300 1
1	0,264 416	9,7464	12,51 68	87.537, 54	1,7598 9	0,8799 44	24,4815	0	21,051 9	1,1318 9
1	0,289 299	10,2603	12,51 91	83.197, 43	1,8411 4	0,9205 72	24,5007	0	20,239 6	1,1338 9
1	0,319 159	10,8518	12,52 21	78.647, 60	1,9347	0,9673 51	24,5209	0	19,391 3	1,1359 8
1	0,354 991	11,5307	12,52 57	73.933, 15	2,0421 4	1,0210 7	24,5418	0	18,515 8	1,1381 5
1	0,397 989	12,3077	12,53 03	69.103, 30	2,1652 6	1,0826 3	24,5633	0	17,622 6	1,1403 7
1	0,449 587	13,1943	12,53 6	64.212, 70	2,306	1,153	24,5851	0	16,721 9	1,1426 2
1	0,511 504	14,1999	12,54 32	59.325, 38	2,4662 1	1,2331 1	24,6069	0	15,825 7	1,1448 7
1	0,585 805	15,3371	12,55 24	54.491, 92	2,6482 8	1,3241 4	24,6285	0	14,943	1,1470 9
1	0,674 966	16,6257	12,56 38	49.743, 99	2,8556 2	1,4278 1	24,6498	0	14,079 7	1,1492 7
1	0,781 959	18,0913	12,57 82	45.109, 16	3,0924 3	1,5462 2	24,6706	0	13,240 5	1,1514
1	0,910 351	19,7441	12,59 63	40.645, 27	3,3617 2	1,6808 6	24,6906	0	12,435 7	1,1534 5
1	1,064 42	21,6083	12,61 9	36.378, 20	3,6683 4	1,8341 7	24,7097	0	11,669 6	1,1554
1	1,249 31	23,7083	12,64 74	32.332, 35	4,0177 3	2,0088 7	24,7278	0	10,946 3	1,1572 6
1	1,471 17	26,0728	12,68 28	28.525, 25	4,4164 9	2,2082 5	24,7448	0	10,268 7	1,159
1	1,737 4	28,7276	12,72 68	24.973, 32	4,8719 7	2,4359 9	24,7606	0	9,6392 1	1,1606 3
1	1,830 71	29,6177	12,74 26	23.921, 22	5,0267	2,5133 5	24,7652	0	9,4533 4	1,1611 1
1	2,056 88	31,6944	12,78 14	21.677, 30	5,3946 2	2,6973 1	24,7751	0	9,0578 6	1,1621 4
1	2,440	35,0355	12,84	18.640,	5,9968	2,9984	24,7884	0	8,5248	1,1635

	26		84	05	3	2			7	2
1	2,900 31	38,8456	12,92 97	15.878, 57	6,6893 8	3,3446 9	24,8003	0	8,0430 3	1,1647 8
1	3,452 37	43,1749	13,02 78	13.380, 83	7,4916 7	3,7458 4	24,8108	0	7,6100 3	1,1659 2
1	3,793 63	45,741	13,08 84	12.147, 49	7,9751 1	3,9875 6	24,8158	0	7,3974 9	1,1664 8
2	9,776 71	0	12,5	999.99 9,41	0,1370 44	0,0685 219	21,2178	0	300	0,7034 22
2	9,786 71	1,35392	12,50 01	404.64 7,70	0,3954 4	0,1977 2	23,1868	0	89,751 7	0,9847 6
2	9,796 71	2,11464	12,50 03	307.28 1,37	0,5276 01	0,2638	23,563	0	66,492 4	1,0301 7
2	9,806 71	2,7179	12,50 07	258.28 0,27	0,6297 42	0,3148 71	23,7592	0	55,569 1	1,0529 4
2	9,816 71	3,23712	12,50 1	227.08 7,48	0,7163 55	0,3581 78	23,8866	0	48,866 8	1,0674 1
2	9,826 71	3,70013	12,50 14	204.95 0,54	0,7927 9	0,3963 95	23,9782	0	44,223 3	1,0776 7
2	9,836 71	4,12322	12,50 19	188.12 3,66	0,8620 99	0,4310 5	24,0485	0	40,754 6	1,0854 6
2	9,846 71	4,51611	12,50 24	174.73 8,03	0,9260 76	0,4630 38	24,1049	0	38,031 9	1,0916 5
2	9,856 71	4,88479	12,50 29	163.74 8,96	0,9858 2	0,4929 1	24,1514	0	35,820 6	1,0967 3
2	9,866 71	5,23348	12,50 34	154.51 0,08	1,0421	0,5210 51	24,1908	0	33,977 8	1,101
2	9,876 71	5,56544	12,50 4	146.59 3,54	1,0955	0,5477 51	24,2246	0	32,410 6	1,1046 6
2	9,886 71	5,88298	12,50 46	139.70 8,69	1,1464 4	0,5732 21	24,2542	0	31,056 4	1,1078 4
2	9,896 71	6,18785	12,50 53	133.64 9,32	1,1952 3	0,5976 14	24,2803	0	29,871 2	1,1106 4
2	9,906 71	6,48156	12,50 59	128.26 0,41	1,2421 4	0,6210 68	24,3036	0	28,822 3	1,1131 2
2	9,916 71	6,7652	12,50 66	123.42 7,69	1,2873 6	0,6436 78	24,3245	0	27,885 9	1,1153 5

2	9,926 71	7,0399	12,50 73	119.05 9,06	1,3310 9	0,6655 44	24,3435	0	27,042 7	1,1173 7
2	9,936 71	7,3065	12,50 81	115.08 4,33	1,3734 7	0,6867 37	24,3607	0	26,278 4	1,1192
2	9,946 71	7,56576	12,50 88	111.44 6,28	1,4146 5	0,7073 25	24,3766	0	25,581	1,1208 8
2	9,956 71	7,8184	12,50 96	108.09 8,46	1,4547 4	0,7273 68	24,3912	0	24,941 2	1,1224 2
2	9,966 71	8,06497	12,51 04	105.00 3,48	1,4938 3	0,7469 14	24,4048	0	24,351 4	1,1238 5
2	9,976 71	8,30594	12,51 12	102.13 0,62	1,532	0,7660 02	24,4173	0	23,805 3	1,1251 7
2	9,988 71	8,5883	12,51 22	98.940, 26	1,5767 1	0,7883 56	24,4313	0	23,200 4	1,1266 4
2	10,00 31	8,918	12,51 34	95.435, 17	1,6288 8	0,8144 41	24,4467	0	22,537 7	1,1282 5
2	10,02 04	9,30158	12,51 49	91.627, 43	1,6895 5	0,8447 77	24,4635	0	21,820 1	1,1300 1
2	10,04 11	9,7464	12,51 68	87.537, 54	1,7598 9	0,8799 44	24,4815	0	21,051 9	1,1318 9
2	10,06 6	10,2603	12,51 91	83.197, 43	1,8411 4	0,9205 72	24,5007	0	20,239 6	1,1338 9
2	10,09 59	10,8518	12,52 21	78.647, 60	1,9347	0,9673 51	24,5209	0	19,391 3	1,1359 8
2	10,13 17	11,5307	12,52 57	73.933, 15	2,0421 4	1,0210 7	24,5418	0	18,515 8	1,1381 5
2	10,17 47	12,3077	12,53 03	69.103, 30	2,1652 6	1,0826 3	24,5633	0	17,622 6	1,1403 7
2	10,22 63	13,1943	12,53 6	64.212, 70	2,306	1,153	24,5851	0	16,721 9	1,1426 2
2	10,28 82	14,1999	12,54 32	59.325, 38	2,4662 1	1,2331 1	24,6069	0	15,825 7	1,1448 7
2	10,36 25	15,3371	12,55 24	54.491, 92	2,6482 8	1,3241 4	24,6285	0	14,943	1,1470 9
2	10,45 17	16,6257	12,56 38	49.743, 99	2,8556 2	1,4278 1	24,6498	0	14,079 7	1,1492 7
2	10,55 87	18,0913	12,57 82	45.109, 16	3,0924 3	1,5462 2	24,6706	0	13,240 5	1,1514

2	10,68 71	19,7441	12,59 63	40.645, 27	3,3617 2	1,6808 6	24,6906	0	12,435 7	1,1534 5
2	10,84 11	21,6083	12,61 9	36.378, 20	3,6683 4	1,8341 7	24,7097	0	11,669 6	1,1554
2	11,02 6	23,7083	12,64 74	32.332, 35	4,0177 3	2,0088 7	24,7278	0	10,946 3	1,1572 6
2	11,24 79	26,0728	12,68 28	28.525, 25	4,4164 9	2,2082 5	24,7448	0	10,268 7	1,159
2	11,51 41	28,7276	12,72 68	24.973, 32	4,8719 7	2,4359 9	24,7606	0	9,6392 1	1,1606 3
2	11,60 74	29,6177	12,74 26	23.921, 22	5,0267	2,5133 5	24,7652	0	9,4533 4	1,1611 1
2	11,83 36	31,6944	12,78 14	21.677, 30	5,3946 2	2,6973 1	24,7751	0	9,0578 6	1,1621 4
2	12,21 7	35,0355	12,84 84	18.640, 05	5,9968 3	2,9984 2	24,7884	0	8,5248 7	1,1635 2
2	12,67 7	38,8456	12,92 97	15.878, 57	6,6893 8	3,3446 9	24,8003	0	8,0430 3	1,1647 8
2	13,22 91	43,1749	13,02 78	13.380, 83	7,4916 7	3,7458 4	24,8108	0	7,6100 3	1,1659 2
2	13,57 03	45,741	13,08 84	12.147, 49	7,9751 1	3,9875 6	24,8158	0	7,3974 9	1,1664 8

