

# Dispersion Report

## Workspace: 72438-1RiempFSRU-1R

### Study: Riempimento FSRU-ME4-Water

#### Equipment Item: 1Ra Manichette GNL riempimento FSRU

72438-1RiempFSRU-1R\Riempimento FSRU-ME4-Water\1Ra Manichette GNL riempimento FSRU

Material	GAS NATURALE	
East	0	m
North	0	m

#### Scenario (User defined source) : 60mm-Q36,6 Disp F2

72438-1RiempFSRU-1R\Riempimento FSRU-ME4-Water\1Ra Manichette GNL riempimento FSRU\60mm-Q36,6 Disp F2

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	33,6	0	33,6

2 Continuous 3600 0 kg/s 33,6 0 33,6

### 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/Li ne height [m]	C/Lin e conc [ppm]	Effect ive width [m]	Effect ive depth [m]	C/Line vapour temperature [degC]	C/Li ne liquid fraction	Centr oid velocity [m/s]	C/Lin e cloud density [kg/m <sup>3</sup> ]
1	0	0	0	999.99 9,41	1,7413 8	0,8438 56	-160,955	0	11,965 5	1,9109 5
1	0,01	0,11881 5	0	996.01 4,48	1,7808 8	0,8457 16	-160,169	0	11,811 5	1,9015 1
1	0,02	0,23617 8	0	992.11 2,01	1,8202 9	0,8476 47	-159,398	0	11,661 8	1,8924
1	0,03	0,35207 5	0	988.29 0,52	1,8596 1	0,8496 35	-158,641	0	11,516 1	1,8835 9
1	0,04	0,46653 8	0	984.54 7,21	1,8988 4	0,8516 7	-157,898	0	11,374 3	1,8750 8
1	0,05	0,57963 5	0	980.87 7,83	1,9379 9	0,8537 54	-157,169	0	11,236 2	1,8668 4
1	0,06	0,69136 8	0	977.28 1,00	1,9770 6	0,8558 76	-156,452	0	11,101 7	1,8588 7
1	0,07	0,80178 9	0	973.75 3,39	2,0160 5	0,8580 33	-155,748	0	10,970 7	1,8511 4
1	0,08	0,91090 9	0	970.29 3,35	2,0549 7	0,8602 18	-155,055	0	10,843	1,8436 5
1	0,09	1,01876	0	966.89 8,61	2,0938 2	0,8624 27	-154,375	0	10,718 5	1,8363 8
1	0,1	1,1254	0	963.56 5,91	2,1326	0,8646 62	-153,706	0	10,597	1,8293 2
1	0,11	1,23081	0	960.29 4,75	2,1713 2	0,8669 12	-153,048	0	10,478 6	1,8224 7
1	0,12	1,33508	0	957.08	2,2099	0,8691	-152,401	0	10,363	1,8158



				1,02	7	83				1
1	0,13	1,43817	0	953.92 5,13	2,2485 6	0,8714 63	-151,764	0	10,250 2	1,8093 3
1	0,14	1,54015	0	950.82 3,82	2,2870 9	0,8737 56	-151,137	0	10,14	1,8030 3
1	0,15	1,64104	0	947.77 5,88	2,3255 7	0,8760 58	-150,52	0	10,032 4	1,7969
1	0,16	1,74085	0	944.77 9,70	2,3639 8	0,8783 66	-149,912	0	9,9273 4	1,7909 3
1	0,17	1,83961	0	941.83 3,68	2,4023 5	0,8806 79	-149,313	0	9,8246 5	1,7851 2
1	0,18	1,93734	0	938.93 6,19	2,4406 6	0,8829 96	-148,724	0	9,7242 7	1,7794 5
1	0,19	2,03407	0	936.08 5,66	2,4789 2	0,8853 15	-148,143	0	9,6261 3	1,7739 2
1	0,2	2,12984	0	933.28 0,60	2,5171 4	0,8876 37	-147,57	0	9,5301 5	1,7685 3
1	0,212	2,2435	0	929.97 2,51	2,5629 3	0,8904 25	-146,894	0	9,4177 2	1,7622 2
1	0,226 4	2,37813	0	926.08 3,99	2,6177 9	0,8937 69	-146,098	0	9,2866 1	1,7549
1	0,243 68	2,53718	0	921.53 1,49	2,6835	0,8977 69	-145,163	0	9,1345 5	1,7464 3
1	0,264 416	2,7246	0	916.22 2,86	2,7621 8	0,9025 54	-144,07	0	8,9592 2	1,7366 9
1	0,289 299	2,94479	0	910.06 1,65	2,8563 6	0,9082 69	-142,798	0	8,7584 1	1,7255 8
1	0,319 159	3,2026	0	902.94 9,36	2,9690 6	0,9150 82	-141,324	0	8,5302 1	1,7129 9
1	0,354 991	3,50315	0	894.79 1,83	3,1038 5	0,9231 64	-139,627	0	8,2733	1,6988 7
1	0,397 989	3,85233	0	885.48 9,46	3,2650 2	0,9327 69	-137,682	0	7,9866 1	1,6831 4
1	0,449 587	4,25562	0	874.97 3,93	3,4576 1	0,9440 57	-135,472	0	7,6706 2	1,6658 4
1	0,511 504	4,71935	0	863.17 2,70	3,6876 4	0,9573 25	-132,976	0	7,3261 4	1,6469 8
1	0,585	5,24931	0	850.05	3,9621	0,9727	-130,183	0	6,9557	1,6266



	805			2,94	9	73			5	9
1	0,674 966	5,8513	0	835.60 5,31	4,2896 4	0,9906 23	-127,083	0	6,5630 7	1,6051
1	0,781 959	6,53094	0	819.85 0,46	4,6798 5	1,0111	-123,674	0	6,1527 8	1,5824
1	0,910 351	7,29341	0	802.84 5,59	5,1443 6	1,0344 2	-119,96	0	5,7305 2	1,5588 2
1	1,064 42	8,14314	0	784.68 7,72	5,6966 3	1,0606 8	-115,954	0	5,3027 6	1,5346 1
1	1,249 31	9,08373	0	765.51 0,64	6,3522 3	1,0899 5	-111,669	0	4,8764 5	1,5099 8
1	1,471 17	10,1178	0	745.47 6,37	7,1289 5	1,1223 4	-107,101	0	4,4585 3	1,4849 4
1	1,737 4	11,2485	0	724.74 5,72	8,0468 7	1,1581 5	-102,25	0	4,0544 8	1,4594 9
1	2,056 88	12,4793	0	703.48 8,84	9,1283 6	1,1977 8	-97,1194	0	3,6687 2	1,4337 1
1	2,440 26	13,8121	0	681.91 4,36	10,397 6	1,2412 2	-91,7202	0	3,3058 8	1,4076 7
1	2,900 31	15,2507	0	660.21 2,01	11,866 1	1,2888 5	-86,0518	0	2,9686 6	1,3813 7
1	3,452 37	16,8022	0	638.55 1,46	13,529 1	1,3416 8	-80,1044	0	2,6578 8	1,3547 4
1	4,114 84	18,4715	0	617.13 2,40	15,395 1	1,4004 1	-73,87	0	2,3746 8	1,3277 4
1	4,909 81	20,2652	0	596.14 3,86	17,467 5	1,4663 3	-67,3382	0	2,1191 6	1,3003 1
1	5,863 77	22,1883	0	575.80 6,45	19,739 2	1,5401 8	-60,5685	0	1,8917 4	1,2728 3
1	7,008 53	24,2509	0	556.29 8,46	22,192 5	1,6233 2	-53,782	0	1,6908 4	1,2464 9
1	8,382 23	26,4709	0	537.73 4,17	24,787 4	1,7059	-47,1122	0	1,5270 9	1,2218 3
1	10,03 07	28,8816	0	520.12 5,89	27,404 8	1,7980 4	-40,5844	0	1,3937 6	1,1987 7
1	11,61 47	31,0172	0	505.15 9,21	29,188 3	1,9024 9	-35,2011	0	1,3055 6	1,1809 9
1	11,61	31,0172	0	505.15	29,188	1,9023	-35,2011	0	1,3056	1,1809



	47			9,21	3	8			3	9
1	12,00 88	31,5287	0	500.45 9,37	29,214 2	1,9525 2	-33,7784	0	1,2905 2	1,1768 6
1	14,38 26	34,4979	0	424.19 9,53	29,677 1	2,5553 4	-18,7247	0	1,2182 9	1,1504 7
1	17,23 11	37,9391	0	310.80 7,11	30,803 4	3,6094 9	-2,57533	0	1,2104 6	1,1405
1	20,64 93	42,15	0	222.15 0,48	32,384 1	4,7976 3	6,49005	0	1,2584 9	1,1464 3
1	24,75 12	47,4662	0	161.66 6,92	34,246 2	6,0171 5	11,5977	0	1,3335 2	1,1539 4
1	24,75 12	47,4662	0	161.66 6,92	34,246 2	6,0171 5	11,5977	0	1,3335 2	1,1539 4
1	24,75 12	47,4662	0,02	161.66 6,58	34,246 2	5,9996 8	11,603	0	1,3329 9	1,1539 1
1	29,67 34	54,0309	1,576 95	121.13 4,89	36,179 2	5,5337 7	14,6217	0	1,4250 7	1,1598 9
1	35,02 95	61,3771	5,290 21	85.593, 66	38,059 7	4,2591 2	16,9899	0	1,7037 8	1,1656 9
1	35,02 95	61,3771	5,290 21	85.593, 66	38,059 7	4,2587 2	16,9899	0	1,7039 2	1,1656 9
1	35,58 01	62,2356	5,693 7	81.788, 50	38,277	4,3064 1	17,2274	0	1,7419 7	1,1663 6
1	42,66 81	75,2531	10,07 8	49.192, 06	40,894	5,4807 2	19,1903	0	2,1063 5	1,1721 6
1	50,93 33	93,39	12,67 22	34.343, 72	43,186 8	6,8658 3	20,0443	0	2,2963 3	1,1748 1
1	50,93 33	93,39	12,67 22	34.343, 72	43,186 8	6,8663 6	20,0443	0	2,2961 6	1,1748 1
1	51,17 37	93,9416	12,70 43	34.104, 18	43,236 9	6,9011 5	20,0577	0	2,2985 5	1,1748 5
1	61,38 05	117,398	11,81 83	26.876, 15	45,065 6	8,8134 4	20,6816	0	2,2741 7	1,1757
1	64,27 73	123,866	10,81 38	25.035, 82	45,677 1	9,8270 8	20,9838	0	2,2464 2	1,1755 2
1	64,27 73	123,866	10,81 38	25.035, 82	45,677 1	9,8270 8	20,9838	0	2,2464 2	1,1755 2
1	66,51	128,745	9,893	23.921,	49,236	10,004	21,1665	0	2,2018	1,1754

	02		81	22	7	7			8	6
1	73,62 86	143,824	6,991 94	21.649, 43	56,977 1	11,372 8	21,5377	0	2,1303 3	1,1754 9
1	88,32 63	174,948	2,569 25	19.583, 36	64,511 4	14,611 8	21,8646	0	2,1685 3	1,1758 2
1	100,0 69	200,708	0,01	18.670, 27	66,11	17,023 3	21,9187	0	2,2393 2	1,1764 8
1	100,0 69	200,708	0	18.670, 29	66,11	17,031	21,9164	0	2,2396 2	1,1764 9
1	105,9 64	213,933	0	18.262, 09	66,705 8	17,215 8	22,0067	0	2,2459 1	1,1763 2
1	127,1 28	261,772	0	16.917, 76	68,836 3	17,855 7	22,2985	0	2,2685 9	1,1758 1
1	152,5 26	319,74	0	15.520, 03	71,382 7	18,578 9	22,5943	0	2,2955 3	1,1753 1
1	155,7 81	327,219	0	15.355, 01	71,708 6	18,668 7	22,6286	0	2,2989 8	1,1752 5
2	3600	0	0	999.99 9,41	1,7413 8	0,8438 56	-160,955	0	11,965 5	1,9109 5
2	3600, 01	0,11881 5	0	996.01 4,48	1,7808 8	0,8457 16	-160,169	0	11,811 5	1,9015 1
2	3600, 02	0,23617 8	0	992.11 2,01	1,8202 9	0,8476 47	-159,398	0	11,661 8	1,8924
2	3600, 03	0,35207 5	0	988.29 0,52	1,8596 1	0,8496 35	-158,641	0	11,516 1	1,8835 9
2	3600, 04	0,46653 8	0	984.54 7,21	1,8988 4	0,8516 7	-157,898	0	11,374 3	1,8750 8
2	3600, 05	0,57963 5	0	980.87 7,83	1,9379 9	0,8537 54	-157,169	0	11,236 2	1,8668 4
2	3600, 06	0,69136 8	0	977.28 1,00	1,9770 6	0,8558 76	-156,452	0	11,101 7	1,8588 7
2	3600, 07	0,80178 9	0	973.75 3,39	2,0160 5	0,8580 33	-155,748	0	10,970 7	1,8511 4
2	3600, 08	0,91090 9	0	970.29 3,35	2,0549 7	0,8602 18	-155,055	0	10,843 7	1,8436 5
2	3600, 09	1,01876	0	966.89 8,61	2,0938 2	0,8624 27	-154,375	0	10,718 5	1,8363 8



2	3600,1	1,1254	0	963.56 5,91	2,1326	0,8646 62	-153,706	0	10,597	1,8293 2
2	3600,11	1,23081	0	960.29 4,75	2,1713 2	0,8669 12	-153,048	0	10,478 6	1,8224 7
2	3600,12	1,33508	0	957.08 1,02	2,2099 7	0,8691 83	-152,401	0	10,363	1,8158 1
2	3600,13	1,43817	0	953.92 5,13	2,2485 6	0,8714 63	-151,764	0	10,250 2	1,8093 3
2	3600,14	1,54015	0	950.82 3,82	2,2870 9	0,8737 56	-151,137	0	10,14	1,8030 3
2	3600,15	1,64104	0	947.77 5,88	2,3255 7	0,8760 58	-150,52	0	10,032 4	1,7969
2	3600,16	1,74085	0	944.77 9,70	2,3639 8	0,8783 66	-149,912	0	9,9273 4	1,7909 3
2	3600,17	1,83961	0	941.83 3,68	2,4023 5	0,8806 79	-149,313	0	9,8246 5	1,7851 2
2	3600,18	1,93734	0	938.93 6,19	2,4406 6	0,8829 96	-148,724	0	9,7242 7	1,7794 5
2	3600,19	2,03407	0	936.08 5,66	2,4789 2	0,8853 15	-148,143	0	9,6261 3	1,7739 2
2	3600,2	2,12984	0	933.28 0,60	2,5171 4	0,8876 37	-147,57	0	9,5301 5	1,7685 3
2	3600,21	2,2435	0	929.97 2,51	2,5629 3	0,8904 25	-146,894	0	9,4177 2	1,7622 2
2	3600,23	2,37813	0	926.08 3,99	2,6177 9	0,8937 69	-146,098	0	9,2866 1	1,7549
2	3600,24	2,53718	0	921.53 1,49	2,6835	0,8977 69	-145,163	0	9,1345 5	1,7464 3
2	3600,26	2,7246	0	916.22 2,86	2,7621 8	0,9025 54	-144,07	0	8,9592 2	1,7366 9
2	3600,29	2,94479	0	910.06 1,65	2,8563 6	0,9082 69	-142,798	0	8,7584 1	1,7255 8
2	3600,32	3,2026	0	902.94 9,36	2,9690 6	0,9150 82	-141,324	0	8,5302 1	1,7129 9
2	3600,35	3,50315	0	894.79 1,83	3,1038 5	0,9231 64	-139,627	0	8,2733	1,6988 7
2	3600,4	3,85233	0	885.48 9,46	3,2650 2	0,9327 69	-137,682	0	7,9866 1	1,6831 4



2	3600,45	4,25562	0	874.97 3,93	3,4576 1	0,9440 57	-135,472	0	7,6706 2	1,6658 4
2	3600,51	4,71935	0	863.17 2,70	3,6876 4	0,9573 25	-132,976	0	7,3261 4	1,6469 8
2	3600,59	5,24931	0	850.05 2,94	3,9621 9	0,9727 73	-130,183	0	6,9557 5	1,6266 9
2	3600,67	5,8513	0	835.60 5,31	4,2896 4	0,9906 23	-127,083	0	6,5630 7	1,6051
2	3600,78	6,53094	0	819.85 0,46	4,6798 5	1,0111	-123,674	0	6,1527 8	1,5824
2	3600,91	7,29341	0	802.84 5,59	5,1443 6	1,0344 2	-119,96	0	5,7305 2	1,5588 2
2	3601,06	8,14314	0	784.68 7,72	5,6966 3	1,0606 8	-115,954	0	5,3027 6	1,5346 1
2	3601,25	9,08373	0	765.51 0,64	6,3522 3	1,0899 5	-111,669	0	4,8764 5	1,5099 8
2	3601,47	10,1178	0	745.47 6,37	7,1289 5	1,1223 4	-107,101	0	4,4585 3	1,4849 4
2	3601,74	11,2485	0	724.74 5,72	8,0468 7	1,1581 5	-102,25	0	4,0544 8	1,4594 9
2	3602,06	12,4793	0	703.48 8,84	9,1283 6	1,1977 8	-97,1194	0	3,6687 2	1,4337 1
2	3602,44	13,8121	0	681.91 4,36	10,397 6	1,2412 2	-91,7202	0	3,3058 8	1,4076 7
2	3602,9	15,2507	0	660.21 2,01	11,866 1	1,2888 5	-86,0518	0	2,9686 6	1,3813 7
2	3603,45	16,8022	0	638.55 1,46	13,529 1	1,3416 8	-80,1044	0	2,6578 8	1,3547 4
2	3604,11	18,4715	0	617.13 2,40	15,395 1	1,4004 1	-73,87	0	2,3746 8	1,3277 4
2	3604,91	20,2652	0	596.14 3,86	17,467 5	1,4663 3	-67,3382	0	2,1191 6	1,3003 1
2	3605,86	22,1883	0	575.80 6,45	19,739 2	1,5401 8	-60,5685	0	1,8917	1,2728 3
2	3607,01	24,2509	0	556.29 8,46	22,192 5	1,6233 2	-53,782	0	1,6908 4	1,2464 9
2	3608,38	26,4709	0	537.73 4,17	24,787 4	1,7059	-47,1122	0	1,5270 9	1,2218 3





2	3610,03	28,8816	0	520.125,89	27,4048	1,79804	-40,5844	0	1,39376	1,19877
2	3611,61	31,0172	0	505.159,21	29,1883	1,90249	-35,2011	0	1,30556	1,18099
2	3611,61	31,0172	0	505.159,21	29,1883	1,90238	-35,2011	0	1,30563	1,18099
2	3612,01	31,5287	0	500.459,37	29,2142	1,95252	-33,7784	0	1,29052	1,17686
2	3614,38	34,4979	0	424.199,53	29,6771	2,55534	-18,7247	0	1,21829	1,15047
2	3617,23	37,9391	0	310.807,11	30,8034	3,60949	-2,57533	0	1,21046	1,14056
2	3620,65	42,15	0	222.150,48	32,3841	4,79763	6,49005	0	1,25849	1,14643
2	3624,75	47,4662	0	161.666,92	34,2462	6,01715	11,5977	0	1,33352	1,15394
2	3624,75	47,4662	0	161.666,92	34,2462	6,01715	11,5977	0	1,33352	1,15394
2	3624,75	47,4662	0,02	161.666,58	34,2462	5,99968	11,603	0	1,33299	1,15391
2	3629,67	54,0309	1,57695	121.134,89	36,1792	5,53377	14,6217	0	1,42507	1,15989
2	3635,03	61,3771	5,29021	85.593,66	38,0597	4,25912	16,9899	0	1,70378	1,16569
2	3635,03	61,3771	5,29021	85.593,66	38,0597	4,25872	16,9899	0	1,70392	1,16569
2	3635,58	62,2356	5,6937	81.788,50	38,277	4,30641	17,2274	0	1,74197	1,16636
2	3642,67	75,2531	10,078	49.192,06	40,894	5,48072	19,1903	0	2,10635	1,17216
2	3650,93	93,39	12,6722	34.343,72	43,1868	6,86583	20,0443	0	2,29633	1,17481
2	3650,93	93,39	12,6722	34.343,72	43,1868	6,86636	20,0443	0	2,29616	1,17481
2	3651,17	93,9416	12,7043	34.104,18	43,2369	6,90115	20,0577	0	2,29855	1,17485
2	3661,38	117,398	11,8183	26.876,15	45,0656	8,81344	20,6816	0	2,27417	1,17577



2	3664,28	123,866	10,8138	25.035,82	45,6771	9,82708	20,9838	0	2,24642	1,17552
2	3664,28	123,866	10,8138	25.035,82	45,6771	9,82708	20,9838	0	2,24642	1,17552
2	3666,51	128,745	9,89381	23.921,22	49,2367	10,0047	21,1665	0	2,20188	1,17546
2	3673,63	143,824	6,99194	21.649,43	56,9771	11,3728	21,5377	0	2,13033	1,17549
2	3688,33	174,948	2,56925	19.583,36	64,5114	14,6118	21,8646	0	2,16853	1,17582
2	3700,07	200,708	0,01	18.670,27	66,11	17,0233	21,9187	0	2,23932	1,17648
2	3700,07	200,708	0	18.670,29	66,11	17,031	21,9164	0	2,23962	1,17649
2	3705,96	213,933	0	18.262,09	66,7058	17,2158	22,0067	0	2,24591	1,17632
2	3727,13	261,772	0	16.917,76	68,8363	17,8557	22,2985	0	2,26859	1,17581
2	3752,53	319,74	0	15.520,03	71,3827	18,5789	22,5943	0	2,29553	1,17531
2	3755,78	327,219	0	15.355,01	71,7086	18,6687	22,6286	0	2,29898	1,17525

### 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	33,6	0	33,6
2	Continuous	3600	0	kg/s	33,6	0	33,6

### 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/Li ne height [m]	C/Li ne conc [ppm]	Effect ive width [m]	Effect ive depth [m]	C/Li ne vapour temperature [degC]	C/Li ne liquid fraction	Centr oid velocity [m/s]	C/Li ne cloud density [kg/m3]
1	0	0	0	999.99	1,7413	0,8438	-160,955	0	11,965	1,9109
				9,41	8	53			5	5
1	0,01	0,11925	0	996.87	1,7808	0,8386	-160,239	0	11,892	1,9017
		8		7,47	3	75			3	1
1	0,02	0,23781	0	993.79	1,82	0,8339	-159,528	0	11,82	1,8926
		7		1,08		21				6



1	0,03	0,35566 1	0	990.73 9,46	1,8589 1	0,8295 61	-158,822	0	11,748 6	1,8837 9
1	0,04	0,4728	0	987.72 1,18	1,8975 6	0,8255 64	-158,12	0	11,678 1	1,8751
1	0,05	0,58924 2	0	984.73 5,20	1,9359 6	0,8219 03	-157,422	0	11,608 5	1,8665 7
1	0,06	0,70499 3	0	981.78 0,81	1,9741 3	0,8185 54	-156,729	0	11,539 7	1,8582
1	0,07	0,82006 4	0	978.85 6,89	2,0120 8	0,8154 94	-156,04	0	11,471 7	1,8499 8
1	0,08	0,93445 4	0	975.96 3,16	2,0498	0,8127 06	-155,355	0	11,404 6	1,8419 2
1	0,09	1,04818	0	973.09 8,09	2,0873 2	0,8101 66	-154,675	0	11,338 3	1,834
1	0,1	1,16125	0	970.26 1,79	2,1246 3	0,8078 63	-153,998	0	11,272 7	1,8262 2
1	0,11	1,27367	0	967.45 2,77	2,1617 5	0,8057 75	-153,325	0	11,208	1,8185 8
1	0,12	1,38543	0	964.67 1,13	2,1986 8	0,8038 93	-152,656	0	11,144	1,8110 7
1	0,13	1,49657	0	961.91 6,10	2,2354 3	0,8022 03	-151,991	0	11,080 8	1,8036 9
1	0,14	1,60707	0	959.18 7,13	2,272	0,8006 91	-151,329	0	11,018 4	1,7964 3
1	0,15	1,71695	0	956.48 3,77	2,3084	0,7993 47	-150,672	0	10,956 7	1,7892 9
1	0,16	1,82621	0	953.80 5,51	2,3446 4	0,7981 61	-150,018	0	10,895 7	1,7822 8
1	0,17	1,93487	0	951.15 1,90	2,3807 2	0,7971 22	-149,367	0	10,835 4	1,7753 7
1	0,18	2,04292	0	948.52 2,51	2,4166 4	0,7962 22	-148,72	0	10,775 9	1,7685 8
1	0,19	2,15038	0	945.91 6,84	2,4524 2	0,7954 53	-148,077	0	10,717	1,7619
1	0,2	2,25726	0	943.33 4,45	2,4880 6	0,7948 06	-147,437	0	10,658 9	1,7553 2
1	0,212	2,38475	0	940.26 5,78	2,5306 4	0,7941 8	-146,674	0	10,590 1	1,7475 7



1	0,226 4	2,53665	0	936.62 6,47	2,5814 9	0,7936 34	-145,764	0	10,508 7	1,7384 5
1	0,243 68	2,71741	0	932.31 9,48	2,6421 5	0,7932 46	-144,682	0	10,412 9	1,7277 7
1	0,264 416	2,93215	0	927.23 6,29	2,7144 7	0,7931 31	-143,397	0	10,300 6	1,7153 3
1	0,289 299	3,1868	0	921.25 7,16	2,8005 7	0,7934 49	-141,873	0	10,169 3	1,7008 9
1	0,319 159	3,48812	0	914.25 0,16	2,9029 6	0,7943 97	-140,072	0	10,016 7	1,6842 6
1	0,354 991	3,84381	0	906.07 4,39	3,0246 1	0,7962 29	-137,949	0	9,8406	1,6652
1	0,397 989	4,2625	0	896.58 1,63	3,1689 6	0,7992 43	-135,453	0	9,6387 5	1,6435 6
1	0,449 587	4,7538	0	885.62 7,37	3,3399 9	0,8038 03	-132,534	0	9,4094 4	1,6192
1	0,511 504	5,32823	0	873.07 7,54	3,5422 2	0,8103 33	-129,134	0	9,1515 2	1,5920 3
1	0,585 805	5,9972	0	858.81 8,61	3,7807 8	0,8192 97	-125,199	0	8,8647 6	1,5620 8
1	0,674 966	6,77303	0	842.77 1,99	4,0613 9	0,8311 84	-120,675	0	8,5501 6	1,5294 5
1	0,781 959	7,66896	0	824.90 6,04	4,3901 6	0,8465 07	-115,514	0	8,2101 2	1,4943 7
1	0,910 351	8,69892	0	805.25 5,75	4,7731 6	0,8658 3	-109,678	0	7,8484 5	1,4571 4
1	1,064 42	9,8776	0	783.92 6,96	5,2157 9	0,8897 72	-103,143	0	7,4703 8	1,4182 1
1	1,249 31	11,2207	0	761.10 9,33	5,7216 3	0,9190 58	-95,9053	0	7,0822 5	1,3780 7
1	1,471 17	12,7465	0	737.07 1,28	6,2906 3	0,9545 82	-87,9884	0	6,6913 6	1,3373 2
1	1,737 4	14,4749	0	712.14 0,82	6,9157 1	0,9977 38	-79,4436	0	6,3048 5	1,2965 8
1	2,056 88	16,4255	0	685.20 9,03	7,5766 3	1,0558 7	-70,1034	0	5,9227 2	1,2559 8
1	2,440 26	18,6191	0	652.54 1,92	8,2223 5	1,1498 4	-59,4707	0	5,5358 5	1,2156 5

1	2,900 31	21,0778	0	616.18 1,28	8,7140 5	1,2941 5	-48,2277	0	5,1708 2	1,1785 1
1	3,452 37	23,8268	0	564.59 7,44	8,9986 9	1,5593 3	-35,1838	0	4,7966 6	1,1455 6
1	4,114 84	26,9193	0	495.38 3,77	9,3124 8	1,9126 2	-21,3223	0	4,5584 7	1,1223
1	4,909 81	30,4702	0	421.55 0,40	9,7335 1	2,3403 3	-9,5853	0	4,3880 9	1,1121 7
1	5,863 77	34,5916	0	350.88 6,30	10,294 3	2,8207	-1,04039	0	4,2775 8	1,1132 7
1	7,008 53	39,4491	0	288.52 8,18	10,986 9	3,3381 7	4,87926	0	4,2168 7	1,1201 3
1	8,382 23	45,2237	0	234.97 3,17	11,818 5	3,8982 6	9,24622	0	4,1954 8	1,1282 6
1	10,03 07	52,1447	0	190.05 5,57	12,794 1	4,5018 6	12,3973	0	4,2034 3	1,1366 6
1	12,00 88	60,4867	0	152.99 8,94	13,919 9	5,1532 9	14,7014	0	4,2334 8	1,1444 8
1	14,38 26	70,5907	0	122.83 3,75	15,200 2	5,8571 8	16,4076	0	4,2798 9	1,1513 4
1	16,38 26	79,1932	0	104.78 6,32	16,221 3	6,3990 4	17,363	0	4,3210 5	1,1556 2
1	16,38 26	79,1932	0	104.78 6,32	16,221 3	6,399	17,363	0	4,3210 8	1,1556 2
1	17,23 11	82,8698	0	98.508, 79	16,636 8	6,6191 8	17,6839	0	4,3386 8	1,1571 5
1	20,64 93	97,8497	0	78.746, 15	18,223 1	7,4704 7	18,6563	0	4,4093 8	1,1620 6
1	24,75 12	116,097	0	62.962, 56	20,014 8	8,3892 3	19,3971	0	4,4860 2	1,1660 9
1	29,67 34	138,394	0	49.686, 15	22,127	9,4575 1	19,9882	0	4,5734 6	1,1695 8
1	35,58 01	165,727	0	38.068, 25	24,665 9	10,847 4	20,7366	0	4,6828 1	1,1718 2
1	42,66 81	199,384	0	28.449, 14	27,737 1	12,614 9	21,9987	0	4,8126 7	1,1714 5
1	47,34 41	222,074	0	23.921, 22	29,787 2	13,772 3	22,5597	0	4,8913 5	1,1714



1	51,17 37	240,951	0	20.930, 80	31,480 7	14,726 2	22,9166	0	4,9530 1	1,1714 3
1	61,38 05	292,282	0	15.215, 33	36,042 4	17,217 1	23,57	0	5,1018	1,1715 9
1	71,47 82	344,455	0	11.547, 99	40,618 2	19,652 3	23,9647	0	5,2328 1	1,1717 8
2	3600	0	0	999.99 9,41	1,7413 8	0,8438 53	-160,955	0	11,965 5	1,9109 5
2	3600, 01	0,11925 8	0	996.87 7,47	1,7808 3	0,8386 75	-160,239	0	11,892 3	1,9017 1
2	3600, 02	0,23781 7	0	993.79 1,08	1,82	0,8339 21	-159,528	0	11,82	1,8926 6
2	3600, 03	0,35566 1	0	990.73 9,46	1,8589 1	0,8295 61	-158,822	0	11,748 6	1,8837 9
2	3600, 04	0,4728	0	987.72 1,18	1,8975 6	0,8255 64	-158,12	0	11,678 1	1,8751
2	3600, 05	0,58924 2	0	984.73 5,20	1,9359 6	0,8219 03	-157,422	0	11,608 5	1,8665 7
2	3600, 06	0,70499 3	0	981.78 0,81	1,9741 3	0,8185 54	-156,729	0	11,539 7	1,8582
2	3600, 07	0,82006 4	0	978.85 6,89	2,0120 8	0,8154 94	-156,04	0	11,471 7	1,8499 8
2	3600, 08	0,93445 4	0	975.96 3,16	2,0498	0,8127 06	-155,355	0	11,404 6	1,8419 2
2	3600, 09	1,04818	0	973.09 8,09	2,0873 2	0,8101 66	-154,675	0	11,338 3	1,834
2	3600, 1	1,16125	0	970.26 1,79	2,1246 3	0,8078 63	-153,998	0	11,272 7	1,8262 2
2	3600, 11	1,27367	0	967.45 2,77	2,1617 5	0,8057 75	-153,325	0	11,208	1,8185 8
2	3600, 12	1,38543	0	964.67 1,13	2,1986 8	0,8038 93	-152,656	0	11,144	1,8110 7
2	3600, 13	1,49657	0	961.91 6,10	2,2354 3	0,8022 03	-151,991	0	11,080 8	1,8036 9
2	3600, 14	1,60707	0	959.18 7,13	2,272	0,8006 91	-151,329	0	11,018 4	1,7964 3
2	3600,	1,71695	0	956.48	2,3084	0,7993	-150,672	0	10,956	1,7892



	15			3,77		47			7	9
2	3600,16	1,82621	0	953.805,51	2,34464	0,798161	-150,018	0	10,8957	1,78228
2	3600,17	1,93487	0	951.151,90	2,38072	0,797122	-149,367	0	10,8354	1,77537
2	3600,18	2,04292	0	948.522,51	2,41664	0,796222	-148,72	0	10,7759	1,76858
2	3600,19	2,15038	0	945.916,84	2,45242	0,795453	-148,077	0	10,717	1,7619
2	3600,2	2,25726	0	943.334,45	2,48806	0,794806	-147,437	0	10,6589	1,75532
2	3600,21	2,38475	0	940.265,78	2,53064	0,79418	-146,674	0	10,5901	1,74757
2	3600,23	2,53665	0	936.626,47	2,58149	0,793634	-145,764	0	10,5087	1,73845
2	3600,24	2,71741	0	932.319,48	2,64215	0,793246	-144,682	0	10,4129	1,72777
2	3600,26	2,93215	0	927.236,29	2,71447	0,793131	-143,397	0	10,3006	1,71533
2	3600,29	3,1868	0	921.257,16	2,80057	0,793449	-141,873	0	10,1693	1,70089
2	3600,32	3,48812	0	914.250,16	2,90296	0,794397	-140,072	0	10,0167	1,68426
2	3600,35	3,84381	0	906.074,39	3,02461	0,796229	-137,949	0	9,8406	1,6652
2	3600,4	4,2625	0	896.581,63	3,16896	0,799243	-135,453	0	9,63875	1,64356
2	3600,45	4,7538	0	885.627,37	3,33999	0,803803	-132,534	0	9,40944	1,61924
2	3600,51	5,32823	0	873.077,54	3,54222	0,810333	-129,134	0	9,15152	1,59203
2	3600,59	5,9972	0	858.818,61	3,78078	0,819297	-125,199	0	8,86476	1,56208
2	3600,67	6,77303	0	842.771,99	4,06139	0,831184	-120,675	0	8,55016	1,52945
2	3600,78	7,66896	0	824.906,04	4,39016	0,846507	-115,514	0	8,21012	1,49437
2	3600,	8,69892	0	805.25	4,7731	0,8658	-109,678	0	7,8484	1,4571





	91			5,75	6	3			5	4
2	3601,06	9,8776	0	783.926,96	5,21579	0,889772	-103,143	0	7,47038	1,41821
2	3601,25	11,2207	0	761.109,33	5,72163	0,919058	-95,9053	0	7,08225	1,37807
2	3601,47	12,7465	0	737.071,28	6,29063	0,954582	-87,9884	0	6,69132	1,33732
2	3601,74	14,4749	0	712.140,82	6,91571	0,997738	-79,4436	0	6,30485	1,29658
2	3602,06	16,4255	0	685.209,03	7,57663	1,05587	-70,1034	0	5,92272	1,25598
2	3602,44	18,6191	0	652.541,92	8,22235	1,14984	-59,4707	0	5,53585	1,21565
2	3602,9	21,0778	0	616.181,28	8,71405	1,29415	-48,2277	0	5,17082	1,17851
2	3603,45	23,8268	0	564.597,44	8,99869	1,55933	-35,1838	0	4,79666	1,14556
2	3604,11	26,9193	0	495.383,77	9,31248	1,91262	-21,3223	0	4,55847	1,12237
2	3604,91	30,4702	0	421.550,40	9,73351	2,34033	-9,5853	0	4,38809	1,11217
2	3605,86	34,5916	0	350.886,30	10,2943	2,8207	-1,04039	0	4,27758	1,11327
2	3607,01	39,4491	0	288.528,18	10,9869	3,33817	4,87926	0	4,21687	1,12013
2	3608,38	45,2237	0	234.973,17	11,8185	3,89826	9,24622	0	4,19548	1,12826
2	3610,03	52,1447	0	190.055,57	12,7941	4,50186	12,3973	0	4,20343	1,13666
2	3612,01	60,4867	0	152.998,94	13,9199	5,15329	14,7014	0	4,23348	1,14448
2	3614,38	70,5907	0	122.833,75	15,2002	5,85718	16,4076	0	4,27989	1,15134
2	3616,38	79,1932	0	104.786,32	16,2213	6,39904	17,363	0	4,32105	1,15562
2	3616,38	79,1932	0	104.786,32	16,2213	6,399	17,363	0	4,32108	1,15562
2	3617,	82,8698	0	98.508,	16,636	6,6191	17,6839	0	4,3386	1,1571



	23			79	8	8			8	5
2	3620,65	97,8497	0	78.746,15	18,2231	7,47047	18,6563	0	4,40938	1,16206
2	3624,75	116,097	0	62.962,56	20,0148	8,38923	19,3971	0	4,48602	1,16609
2	3629,67	138,394	0	49.686,15	22,127	9,45751	19,9882	0	4,57346	1,16958
2	3635,58	165,727	0	38.068,25	24,6659	10,8474	20,7366	0	4,68281	1,17182
2	3642,67	199,384	0	28.449,14	27,7371	12,6149	21,9987	0	4,81267	1,17145
2	3647,34	222,074	0	23.921,22	29,7872	13,7723	22,5597	0	4,89135	1,1714
2	3651,17	240,951	0	20.930,80	31,4807	14,7262	22,9166	0	4,95301	1,17143
2	3661,38	292,282	0	15.215,33	36,0424	17,2171	23,57	0	5,1018	1,17159
2	3671,48	344,455	0	11.547,99	40,6182	19,6523	23,9647	0	5,23281	1,17178



## Scenario (User defined source) : 60mm-Q36,6 Disp D5

72438-1RiempFSRU-1R\Riempimento FSRU-ME4-Water\1Ra Manichette GNL  
riempimento FSRU\60mm-Q36,6 Disp D5

Material to track

**GAS NATURALE**

### 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	34,3	0	34,3
2	Continuous	3600	0	kg/s	34,3	0	34,3

### 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/Li ne height [m]	C/Li ne conc [ppm]	Effect ive width [m]	Effect ive depth [m]	C/Li ne vapour temperature [degC]	C/Li ne liquid fraction	Centr oid velocity [m/s]	C/Li ne cloud density [kg/m3]
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1	0	0	0	999.99 9,41	1,7594 3	0,8525 98	-160,955	0	11,965 5	1,9109 5
1	0,01	0,11882 4	0	996.05 4,84	1,7991 4	0,8543 58	-160,177	0	11,813 1	1,9016 1
1	0,02	0,23621 1	0	992.19 1,09	1,8387 6	0,8561 95	-159,414	0	11,664 8	1,8925 8
1	0,03	0,35214 5	0	988.40 6,75	1,8782 9	0,8580 93	-158,664	0	11,520 5	1,8838 6
1	0,04	0,46665 7	0	984.69 9,09	1,9177 3	0,8600 44	-157,928	0	11,38	1,8754 3
1	0,05	0,57981 7	0	981.06 3,86	1,9570 8	0,8620 48	-157,206	0	11,243 1	1,8672 6
1	0,06	0,69162 1	0	977.49 9,94	1,9963 5	0,8640 92	-156,495	0	11,109 7	1,8593 5
1	0,07	0,80212 8	0	974.00 3,83	2,0355 4	0,8661 77	-155,797	0	10,979 8	1,8516 8
1	0,08	0,91134	0	970.57 4,24	2,0746 6	0,8682 93	-155,112	0	10,853 1	1,8442 5
1	0,09	1,0193	0	967.20 8,51	2,1137 1	0,8704 38	-154,437	0	10,729 5	1,8370 4
1	0,1	1,12605	0	963.90 3,98	2,1526 8	0,8726 1	-153,774	0	10,609	1,8300 3
1	0,11	1,23158	0	960.65 9,65	2,1915 9	0,8748 02	-153,121	0	10,491 4	1,8232 3
1	0,12	1,33598	0	957.47 2,00	2,2304 4	0,8770 17	-152,479	0	10,376 6	1,8166 1
1	0,13	1,43921	0	954.34 1,17	2,2692 2	0,8792 44	-151,848	0	10,264 6	1,8101 8
1	0,14	1,54134	0	951.26 3,94	2,3079 4	0,8814 86	-151,226	0	10,155 1	1,8039 2
1	0,15	1,64238	0	948.23 9,23	2,3466	0,8837 4	-150,613	0	10,048 2	1,7978 3
1	0,16	1,74234	0	945.26 5,44	2,3852 1	0,8860 03	-150,01	0	9,9437 6	1,7918 9
1	0,17	1,84127	0	942.34 1,00	2,4237 6	0,8882 73	-149,416	0	9,8416 6	1,7861 1
1	0,18	1,93917	0	939.46 4,29	2,4622 6	0,8905 48	-148,831	0	9,7418 4	1,7804 7



1	0,19	2,03609	0	936.63 3,79	2,5007 1	0,8928 29	-148,254	0	9,6442 3	1,7749 7
1	0,2	2,13203	0	933.84 8,06	2,5391	0,8951 15	-147,686	0	9,5487 4	1,7696 1
1	0,212	2,24593	0	930.56 2,24	2,5851 1	0,8978 61	-147,014	0	9,4368 7	1,7633 4
1	0,226 4	2,38083	0	926.69 9,61	2,6402 4	0,9011 57	-146,223	0	9,3063 9	1,7560 4
1	0,243 68	2,54022	0	922.17 6,26	2,7062 6	0,9051 05	-145,295	0	9,1550 1	1,7476 1
1	0,264 416	2,72808	0	916.90 0,36	2,7853 1	0,9098 33	-144,209	0	8,9803 9	1,7379 2
1	0,289 299	2,94882	0	910.77 5,41	2,8799 3	0,9154 9	-142,945	0	8,7803 3	1,7268 5
1	0,319 159	3,20729	0	903.70 3,27	2,9931 6	0,9222 41	-141,48	0	8,5529	1,7143
1	0,354 991	3,5087	0	895.58 8,52	3,1285 8	0,9302 63	-139,792	0	8,2967 1	1,7002 2
1	0,397 989	3,85893	0	886.33 1,68	3,2904 9	0,9398 09	-137,857	0	8,0107	1,6845 3
1	0,449 587	4,26349	0	875.86 4,23	3,4839 7	0,9510 42	-135,658	0	7,6952 9	1,6672 7
1	0,511 504	4,72878	0	864.11 2,19	3,7150 6	0,9642 61	-133,174	0	7,3512 7	1,6484 5
1	0,585 805	5,26064	0	851.04 1,27	3,9908 7	0,9796 74	-130,392	0	6,9811 4	1,6281 7
1	0,674 966	5,86492	0	836.64 0,77	4,3198 4	0,9975 06	-127,304	0	6,5885	1,6066
1	0,781 959	6,5473	0	820.93 0,09	4,7118 5	1,0179 9	-123,906	0	6,178	1,5839
1	0,910 351	7,31298	0	803.96 5,47	5,1785 2	1,0413 2	-120,203	0	5,7552 9	1,5603 2
1	1,064 42	8,16646	0	785.84 2,06	5,7333 8	1,0676 4	-116,207	0	5,3268 1	1,5360 9
1	1,249 31	9,11137	0	766.69 2,86	6,3921	1,0969 9	-111,931	0	4,8995 4	1,5114 4
1	1,471 17	10,1503	0	746.67 9,07	7,1725 9	1,1294 6	-107,373	0	4,4804 7	1,4863 7



1	1,737 4	11,2867	0	725.95 8,82	8,0950 7	1,1654 1	-102,53	0	4,0750 1	1,4609 1
1	2,056 88	12,5239	0	704.70 4,54	9,1821	1,2052 1	-97,4092	0	3,6877 5	1,4351 1
1	2,440 26	13,8636	0	683.12 6,17	10,458 1	1,2488	-92,0192	0	3,3234 1	1,4090 6
1	2,900 31	15,3099	0	661.40 9,36	11,934 8	1,2966 5	-86,3598	0	2,9845 7	1,3827 4
1	3,452 37	16,8698	0	639.72 7,14	13,607 4	1,3497	-80,4217	0	2,6721 9	1,3561
1	4,114 84	18,5482	0	618.27 9,35	15,484 7	1,4086 7	-74,1973	0	2,3874 4	1,3290 9
1	4,909 81	20,3518	0	597.25 5,42	17,570 6	1,4748	-67,676	0	2,1304 5	1,3016 7
1	5,863 77	22,2851	0	576.87 8,00	19,858	1,5488 1	-60,9069	0	1,9017 2	1,2741 2
1	7,008 53	24,3591	0	557.31 6,30	22,330 3	1,6322 9	-54,1104	0	1,6995 2	1,2476 8
1	8,382 23	26,5938	0	538.67 0,95	24,949 6	1,7132 9	-47,4271	0	1,5362 7	1,2229 2
1	10,03 07	29,0215	0	520.96 6,13	27,6	1,8056 5	-40,8757	0	1,4015 6	1,1997 4
1	11,70 48	31,2868	0	505.28 1,65	29,514 6	1,9145	-35,2158	0	1,3084 9	1,1809 8
1	11,70 48	31,2868	0	505.28 1,65	29,514 6	1,9145	-35,2158	0	1,3084 9	1,1809 8
1	12,00 88	31,6821	0	501.66 4,57	29,534 7	1,9530 7	-34,1215	0	1,2969 1	1,1778
1	14,38 26	34,6647	0	429.57 3,30	29,966 2	2,5290 2	-19,6198	0	1,2236 6	1,1515
1	17,23 11	38,1167	0	315.19 4,46	31,080 7	3,5841 8	-3,08711	0	1,2128 2	1,1404 3
1	20,64 93	42,3337	0	224.95 8,03	32,663 1	4,7818 9	6,23243	0	1,2598 2	1,1461 5
1	24,75 12	47,6551	0	163.30 0,38	34,538 8	6,0147 6	11,4689	0	1,3352 3	1,1537 1
1	24,75 12	47,6551	0	163.30 0,38	34,538 8	6,0147 6	11,4689	0	1,3352 3	1,1537 1

1	24,75 12	47,6551	0,02	163.30 0,03	34,538 8	5,9974 8	11,4742	0	1,3346 5	1,1536 9
1	29,67 34	54,224	1,594 22	122.15 8,23	36,483 4	5,5200 8	14,5484	0	1,4279	1,1597 3
1	34,94 89	61,4561	5,287 3	86.518, 66	38,349	4,2567 7	16,9288	0	1,7066 6	1,1655 3
1	34,94 89	61,4561	5,287 3	86.518, 66	38,349	4,2552 4	16,9288	0	1,7072	1,1655 3
1	35,58 01	62,4428	5,753 99	82.105, 99	38,598 9	4,3112 2	17,2049	0	1,7511 9	1,1663 1
1	42,66 81	75,5338	10,17 55	49.287, 40	41,227 5	5,5069 8	19,1835	0	2,1168 7	1,1721 3
1	51,01 87	93,9415	12,80 84	34.342, 18	43,547 8	6,9096 3	20,044	0	2,3084 1	1,1747 9
1	51,01 87	93,9415	12,80 84	34.342, 18	43,547 8	6,9096 4	20,044	0	2,3084 1	1,1747 9
1	51,17 37	94,2988	12,82 97	34.186, 96	43,580 5	6,9321 9	20,0528	0	2,3099 8	1,1748 2
1	61,38 05	117,888	11,98 68	26.982, 34	45,403 9	8,8213 3	20,6622	0	2,2870 1	1,1757
1	64,49 47	124,877	10,90 25	25.007, 65	46,061 4	9,9103 9	20,9867	0	2,2565	1,1755 1
1	64,49 47	124,877	10,90 25	25.007, 65	46,061 4	9,9103 9	20,9867	0	2,2565	1,1755 1
1	66,67 73	129,667	9,993 22	23.921, 22	49,596 9	10,079 2	21,1647	0	2,2123 4	1,1754 5
1	73,62 86	144,458	7,124 01	21.688, 03	57,318 1	11,409 4	21,5294	0	2,1399	1,1754 8
1	88,32 63	175,695	2,638 04	19.604, 32	65,050 6	14,670 4	21,859	0	2,1761 5	1,1758 2
1	100,2 72	201,996	0,01	18.677, 88	66,703 3	17,141 5	21,9143	0	2,2483 3	1,1764 9
1	100,2 72	201,996	0	18.677, 90	66,703 3	17,148 8	21,9119	0	2,2486 6	1,1765
1	105,9 64	214,817	0	18.285, 49	67,280 7	17,327 7	21,9987	0	2,2547 1	1,1763 5
1	127,1 28	262,838	0	16.946, 03	69,418 8	17,969 3	22,2896	0	2,2772 8	1,1758 3



1	152,526	321,023	0	15.552,55	71,9741	18,6943	22,5846	0	2,3041	1,17533
1	156,227	329,559	0	15.365,67	72,3459	18,7967	22,6235	0	2,308	1,17526
2	3600	0	0	999.999,41	1,75943	0,852598	-160,955	0	11,9655	1,91095
2	3600,01	0,118824	0	996.054,84	1,79914	0,854358	-160,177	0	11,8131	1,90161
2	3600,02	0,236211	0	992.191,09	1,83876	0,856195	-159,414	0	11,6648	1,89258
2	3600,03	0,352145	0	988.406,75	1,87829	0,858093	-158,664	0	11,5205	1,88386
2	3600,04	0,466657	0	984.699,09	1,91773	0,860044	-157,928	0	11,38	1,87543
2	3600,05	0,579817	0	981.063,86	1,95708	0,862048	-157,206	0	11,2431	1,86726
2	3600,06	0,691621	0	977.499,94	1,99635	0,864092	-156,495	0	11,1097	1,85935
2	3600,07	0,802128	0	974.003,83	2,03554	0,866177	-155,797	0	10,9798	1,85168
2	3600,08	0,91134	0	970.574,24	2,07466	0,868293	-155,112	0	10,8531	1,84425
2	3600,09	1,0193	0	967.208,51	2,11371	0,870438	-154,437	0	10,7295	1,83704
2	3600,1	1,12605	0	963.903,98	2,15268	0,87261	-153,774	0	10,609	1,83003
2	3600,11	1,23158	0	960.659,65	2,19159	0,874802	-153,121	0	10,4914	1,82323
2	3600,12	1,33598	0	957.472,00	2,23044	0,877017	-152,479	0	10,3766	1,81661
2	3600,13	1,43921	0	954.341,17	2,26922	0,879244	-151,848	0	10,2646	1,81018
2	3600,14	1,54134	0	951.263,94	2,30794	0,881486	-151,226	0	10,1551	1,80392
2	3600,15	1,64238	0	948.239,23	2,346615	0,88374	-150,613	0	10,0482	1,79783
2	3600,	1,74234	0	945.26	2,3852	0,8860	-150,01	0	9,9437	1,7918



	16			5,44	1	03			6	9
2	3600,17	1,84127	0	942.341,00	2,42376	0,888273	-149,416	0	9,84166	1,78611
2	3600,18	1,93917	0	939.464,29	2,46226	0,890548	-148,831	0	9,74184	1,78047
2	3600,19	2,03609	0	936.633,79	2,50071	0,892829	-148,254	0	9,64423	1,77497
2	3600,2	2,13203	0	933.848,06	2,5391	0,895115	-147,686	0	9,54874	1,76961
2	3600,21	2,24593	0	930.562,24	2,58511	0,897861	-147,014	0	9,43687	1,76334
2	3600,23	2,38083	0	926.699,61	2,64024	0,901157	-146,223	0	9,30639	1,75604
2	3600,24	2,54022	0	922.176,26	2,70626	0,905105	-145,295	0	9,15501	1,74761
2	3600,26	2,72808	0	916.900,36	2,78531	0,909833	-144,209	0	8,98039	1,73792
2	3600,29	2,94882	0	910.775,41	2,87993	0,91549	-142,945	0	8,78033	1,72685
2	3600,32	3,20729	0	903.703,27	2,99316	0,922241	-141,48	0	8,5529	1,7143
2	3600,35	3,5087	0	895.588,52	3,12858	0,930263	-139,792	0	8,29671	1,70022
2	3600,4	3,85893	0	886.331,68	3,29049	0,939809	-137,857	0	8,0107	1,68453
2	3600,45	4,26349	0	875.864,23	3,48397	0,951042	-135,658	0	7,69529	1,66727
2	3600,51	4,72878	0	864.112,19	3,71506	0,964261	-133,174	0	7,35127	1,64845
2	3600,59	5,26064	0	851.041,27	3,99087	0,979674	-130,392	0	6,98114	1,62817
2	3600,67	5,86492	0	836.640,77	4,31984	0,997506	-127,304	0	6,5885	1,6066
2	3600,78	6,5473	0	820.930,09	4,71185	1,01799	-123,906	0	6,178	1,5839
2	3600,91	7,31298	0	803.965,47	5,17852	1,04132	-120,203	0	5,75529	1,56032
2	3601,	8,16646	0	785.84	5,7333	1,0676	-116,207	0	5,3268	1,5360



	06			2,06	8	4			1	9
2	3601, 25	9,11137	0	766.69 2,86	6,3921	1,0969 9	-111,931	0	4,8995 4	1,5114 4
2	3601, 47	10,1503	0	746.67 9,07	7,1725 9	1,1294 6	-107,373	0	4,4804 7	1,4863 7
2	3601, 74	11,2867	0	725.95 8,82	8,0950 7	1,1654 1	-102,53	0	4,0750 1	1,4609 1
2	3602, 06	12,5239	0	704.70 4,54	9,1821	1,2052 1	-97,4092	0	3,6877 5	1,4351 1
2	3602, 44	13,8636	0	683.12 6,17	10,458 1	1,2488	-92,0192	0	3,3234 1	1,4090 6
2	3602, 9	15,3099	0	661.40 9,36	11,934 8	1,2966 5	-86,3598	0	2,9845 7	1,3827 4
2	3603, 45	16,8698	0	639.72 7,14	13,607 4	1,3497	-80,4217	0	2,6721 9	1,3561
2	3604, 11	18,5482	0	618.27 9,35	15,484 7	1,4086 7	-74,1973	0	2,3874 4	1,3290 9
2	3604, 91	20,3518	0	597.25 5,42	17,570 6	1,4748	-67,676	0	2,1304 5	1,3016 7
2	3605, 86	22,2851	0	576.87 8,00	19,858	1,5488 1	-60,9069	0	1,9017 2	1,2741 2
2	3607, 01	24,3591	0	557.31 6,30	22,330 3	1,6322 9	-54,1104	0	1,6995 2	1,2476 8
2	3608, 38	26,5938	0	538.67 0,95	24,949 6	1,7132 9	-47,4271	0	1,5362 7	1,2229 2
2	3610, 03	29,0215	0	520.96 6,13	27,6	1,8056 5	-40,8757	0	1,4015 6	1,1997 4
2	3611, 7	31,2868	0	505.28 1,65	29,514 6	1,9145	-35,2158	0	1,3084 9	1,1809 8
2	3611, 7	31,2868	0	505.28 1,65	29,514 6	1,9145	-35,2158	0	1,3084 9	1,1809 8
2	3612, 01	31,6821	0	501.66 4,57	29,534 7	1,9530 7	-34,1215	0	1,2969 1	1,1778
2	3614, 38	34,6647	0	429.57 3,30	29,966 2	2,5290 2	-19,6198	0	1,2236 6	1,1515
2	3617, 23	38,1167	0	315.19 4,46	31,080 7	3,5841 8	-3,08711	0	1,2128 2	1,1404 3
2	3620,	42,3337	0	224.95	32,663	4,7818	6,23243	0	1,2598	1,1461



	65			8,03	1	9			2	5
2	3624,75	47,6551	0	163.300,38	34,5388	6,01476	11,4689	0	1,33523	1,15371
2	3624,75	47,6551	0	163.300,38	34,5388	6,01476	11,4689	0	1,33523	1,15371
2	3624,75	47,6551	0,02	163.300,03	34,5388	5,99748	11,4742	0	1,33465	1,15369
2	3629,67	54,224	1,59422	122.158,23	36,4834	5,52008	14,5484	0	1,4279	1,15973
2	3634,95	61,4561	5,2873	86.518,66	38,349	4,25677	16,9288	0	1,70666	1,16553
2	3634,95	61,4561	5,2873	86.518,66	38,349	4,25524	16,9288	0	1,7072	1,16553
2	3635,58	62,4428	5,75399	82.105,99	38,5989	4,31122	17,2049	0	1,75119	1,16631
2	3642,67	75,5338	10,1755	49.287,40	41,2275	5,50698	19,1835	0	2,11687	1,17213
2	3651,02	93,9415	12,8084	34.342,18	43,5478	6,90963	20,044	0	2,30841	1,17479
2	3651,02	93,9415	12,8084	34.342,18	43,5478	6,90964	20,044	0	2,30841	1,17479
2	3651,17	94,2988	12,8297	34.186,96	43,5805	6,93219	20,0528	0	2,30998	1,17482
2	3661,38	117,888	11,9868	26.982,34	45,4039	8,82133	20,6622	0	2,28701	1,1757
2	3664,49	124,877	10,9025	25.007,65	46,0614	9,91039	20,9867	0	2,2565	1,17551
2	3664,49	124,877	10,9025	25.007,65	46,0614	9,91039	20,9867	0	2,2565	1,17551
2	3666,68	129,667	9,99322	23.921,22	49,5969	10,0792	21,1647	0	2,21234	1,17545
2	3673,63	144,458	7,12401	21.688,03	57,3181	11,4094	21,5294	0	2,1399	1,17548
2	3688,33	175,695	2,63804	19.604,32	65,0506	14,6704	21,859	0	2,17615	1,17582
2	3700,27	201,996	0,01	18.677,88	66,7033	17,1415	21,9143	0	2,24833	1,17649
2	3700,	201,996	0	18.677,	66,703	17,148	21,9119	0	2,2486	1,1765



	27			90	3	8			6	
2	3705,96	214,817	0	18.285,49	67,2807	17,3277	21,9987	0	2,25471	1,17635
2	3727,13	262,838	0	16.946,03	69,4188	17,9693	22,2896	0	2,27728	1,17583
2	3752,53	321,023	0	15.552,55	71,9741	18,6943	22,5846	0	2,30413	1,17533
2	3756,23	329,559	0	15.365,67	72,3459	18,7967	22,6235	0	2,308	1,17526

### 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	34,3	0	34,3
2	Continuous	3600	0	kg/s	34,3	0	34,3

### 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/Li ne height [m]	C/Li ne conc [ppm]	Effect ive width [m]	Effect ive depth [m]	C/Line vapour temperature [degC]	C/Li ne liquid fraction	Centr oid velocity [m/s]	C/Li ne cloud density [kg/m3]
1	0	0	0	999.99 9,41	1,7594 3	0,8525 97	-160,955	0	11,965 5	1,9109 5
1	0,01	0,11926 2	0	996.90 9,28	1,7990 9	0,8473 18	-160,247	0	11,893	1,9018 1
1	0,02	0,23783 3	0	993.85 3,98	1,8384 7	0,8424 67	-159,543	0	11,821 5	1,8928 5



1	0,03	0,35569 4	0	990.83 2,75	1,8775 9	0,8380 13	-158,843	0	11,750 8	1,8840 6
1	0,04	0,47285 9	0	987.84 4,15	1,9164 4	0,8339 25	-158,148	0	11,681	1,8754 5
1	0,05	0,58933 3	0	984.88 7,23	1,9550 6	0,8301 76	-157,458	0	11,612	1,867
1	0,06	0,70512 2	0	981.96 1,22	1,9934 3	0,8267 42	-156,771	0	11,543 8	1,8587
1	0,07	0,82023 7	0	979.06 5,12	2,0315 8	0,8236	-156,089	0	11,476 5	1,8505 6
1	0,08	0,93467 7	0	976.19 8,53	2,0695 1	0,8207 32	-155,411	0	11,41	1,8425 7
1	0,09	1,04846	0	973.36 0,08	2,1072 3	0,8181 17	-154,737	0	11,344 2	1,8347 1
1	0,1	1,16159	0	970.54 9,76	2,1447 4	0,8157 39	-154,066	0	11,279 3	1,827
1	0,11	1,27407	0	967.76 6,22	2,1820 6	0,8135 81	-153,4	0	11,215 1	1,8194 2
1	0,12	1,38592	0	965.00 9,54	2,2191 9	0,8116 3	-152,737	0	11,151 7	1,8119 7
1	0,13	1,49713	0	962.27 8,86	2,2561 3	0,8098 73	-152,078	0	11,089	1,8046 4
1	0,14	1,60771	0	959.57 3,76	2,2929	0,8082 97	-151,422	0	11,027	1,7974 4
1	0,15	1,71768	0	956.89 3,76	2,3295	0,8068 91	-150,77	0	10,965 8	1,7903 5
1	0,16	1,82704	0	954.23 8,36	2,3659 3	0,8056 45	-150,122	0	10,905 3	1,7833 9
1	0,17	1,93579	0	951.60 7,12	2,4022	0,8045 48	-149,477	0	10,845 5	1,7765 3
1	0,18	2,04395	0	948.99 9,61	2,4383 2	0,8035 92	-148,836	0	10,786 4	1,7697 9
1	0,19	2,15152	0	946.41 5,35	2,4742 9	0,8027 69	-148,198	0	10,728	1,7631 5
1	0,2	2,2585	0	943.85 3,89	2,5101 2	0,8020 69	-147,564	0	10,670 3	1,7566 2
1	0,212	2,38613	0	940.80 9,83	2,5529 3	0,8013 83	-146,807	0	10,601 9	1,7489 1



1	0,226 4	2,53821	0	937.19 9,17	2,6040 5	0,8007 67	-145,905	0	10,521 1	1,7398 5
1	0,243 68	2,71918	0	932.92 5,36	2,6650 4	0,8002 99	-144,832	0	10,426 3	1,7292 3
1	0,264 416	2,93421	0	927.88 0,67	2,7377 4	0,8000 96	-143,557	0	10,314 3	1,7168 6
1	0,289 299	3,1892	0	921.94 5,46	2,8243	0,8003 14	-142,046	0	10,183 8	1,7025
1	0,319 159	3,49098	0	914.98 8,18	2,9272 4	0,8011 53	-140,259	0	10,032 2	1,6859 5
1	0,354 991	3,84724	0	906.86 7,78	3,0495 3	0,8028 66	-138,151	0	9,8569 6	1,6669 8
1	0,397 989	4,26666	0	897.43 6,01	3,1946 5	0,8057 54	-135,674	0	9,6561	1,6454 3
1	0,449 587	4,75888	0	886.54 8,03	3,3665 9	0,8101 86	-132,775	0	9,4277 7	1,6211 5
1	0,511 504	5,33449	0	874.06 8,44	3,5699 2	0,8165 85	-129,398	0	9,1708 2	1,5940 7
1	0,585 805	6,00492	0	859.88 2,37	3,8097 8	0,8254 25	-125,488	0	8,8849 4	1,5642
1	0,674 966	6,78259	0	843.90 8,69	4,0919 6	0,8371 94	-120,99	0	8,5711	1,5316 3
1	0,781 959	7,6808	0	826.11 3,22	4,4226 3	0,8524 13	-115,856	0	8,2316 1	1,4965 9
1	0,910 351	8,71356	0	806.52 7,68	4,8079 7	0,8716 46	-110,048	0	7,8702 4	1,4594
1	1,064 42	9,89559	0	785.25 4,51	5,2534 9	0,8955 18	-103,541	0	7,4921 7	1,4204 6
1	1,249 31	11,2428	0	762.48 0,06	5,7629 6	0,9247 52	-96,3303	0	7,1037 3	1,3803
1	1,471 17	12,7733	0	738.46 9,96	6,3365 8	0,9602 31	-88,4378	0	6,7121 4	1,3395
1	1,737 4	14,507	0	713.55 2,48	6,9676 3	1,0033 2	-79,9139	0	6,3247 7	1,2986 9
1	2,056 88	16,4641	0	686.91 4,29	7,6364 5	1,0603 5	-70,6395	0	5,9429 3	1,2580 9
1	2,440 26	18,6653	0	654.52 1,59	8,2937 2	1,1529 4	-60,0553	0	5,5554 2	1,2176 4



1	2,900 31	21,1326	0	618.27 9,40	8,8065 9	1,2950 4	-48,8146	0	5,1883 2	1,1802 2
1	3,452 37	23,8906	0	568.10 6,75	9,0966 3	1,5536 5	-35,9207	0	4,8165 8	1,1469 7
1	4,114 84	26,9935	0	498.94 9,14	9,4113 4	1,9073 5	-21,9458	0	4,5728	1,1230 5
1	4,909 81	30,5544	0	424.81 6,09	9,8307 6	2,3371	-10,0338	0	4,3993 9	1,1123 2
1	5,863 77	34,6854	0	353.64 6,95	10,391 8	2,8210 1	-1,33187	0	4,2865 6	1,1130 7
1	7,008 53	39,5521	0	290.78 2,10	11,085 9	3,3425 6	4,67791	0	4,2242 7	1,1198 4
1	8,382 23	45,3361	0	236.78 0,11	11,920 2	3,9072 3	9,10828	0	4,2018 9	1,1279 6
1	10,03 07	52,2672	0	191.49 1,55	12,899 8	4,5157 6	12,3004	0	4,2092 3	1,1363 9
1	12,00 88	60,6203	0	154.13 6,37	14,030 7	5,1723 9	14,6315	0	4,2389 4	1,1442 4
1	14,38 26	70,7371	0	123.73 4,98	15,317 2	5,8817 6	16,3561	0	4,2851 7	1,1511 4
1	16,47 44	79,7476	0	104.83 0,90	16,389 5	6,4519 8	17,3583	0	4,3280 8	1,1556 2
1	16,47 44	79,7476	0	104.83 0,90	16,389 5	6,4518	17,3583	0	4,3281 9	1,1556 2
1	17,23 11	83,0305	0	99.228, 45	16,761 7	6,6490 6	17,6451	0	4,3438 4	1,1569 8
1	20,64 93	98,0225	0	79.389, 91	18,354 3	7,5012 9	18,6241	0	4,4139 9	1,1619 1
1	24,75 12	116,287	0	63.510, 50	20,149 8	8,4239	19,371	0	4,4904 7	1,1659 5
1	29,67 34	138,605	0	50.112, 70	22,268 9	9,5007 7	19,9686	0	4,5781 6	1,1694 7
1	35,58 01	165,969	0	38.415, 70	24,812 4	10,895 3	20,6849	0	4,6876 3	1,1718 6
1	42,66 81	199,654	0	28.753, 73	27,887 1	12,660 5	21,9549	0	4,8166 1	1,1714 7
1	47,66 41	223,927	0	23.921, 22	30,079 5	13,898	22,5554	0	4,8999 5	1,1714 2





1	51,17 37	241,257	0	21.173, 47	31,633 3	14,777 2	22,8839	0	4,9563 9	1,1714 4
1	61,38 05	292,721	0	15.364, 90	36,202 9	17,307 7	23,5483	0	5,1072 6	1,1716
1	71,92 95	347,325	0	11.541, 76	40,989 7	19,850 9	23,9611	0	5,2432 2	1,1718
2	3600	0	0	999.99 9,41	1,7594 3	0,8525 97	-160,955	0	11,965 5	1,9109 5
2	3600, 01	0,11926 2	0	996.90 9,28	1,7990 9	0,8473 18	-160,247	0	11,893	1,9018 1
2	3600, 02	0,23783 3	0	993.85 3,98	1,8384 7	0,8424 67	-159,543	0	11,821 5	1,8928 5
2	3600, 03	0,35569 4	0	990.83 2,75	1,8775 9	0,8380 13	-158,843	0	11,750 8	1,8840 6
2	3600, 04	0,47285 9	0	987.84 4,15	1,9164 4	0,8339 25	-158,148	0	11,681	1,8754 5
2	3600, 05	0,58933 3	0	984.88 7,23	1,9550 6	0,8301 76	-157,458	0	11,612	1,867
2	3600, 06	0,70512 2	0	981.96 1,22	1,9934 3	0,8267 42	-156,771	0	11,543 8	1,8587
2	3600, 07	0,82023 7	0	979.06 5,12	2,0315 8	0,8236	-156,089	0	11,476 5	1,8505 6
2	3600, 08	0,93467 7	0	976.19 8,53	2,0695 1	0,8207 32	-155,411	0	11,41	1,8425 7
2	3600, 09	1,04846	0	973.36 0,08	2,1072 3	0,8181 17	-154,737	0	11,344 2	1,8347 1
2	3600, 1	1,16159	0	970.54 9,76	2,1447 4	0,8157 39	-154,066	0	11,279 3	1,827
2	3600, 11	1,27407	0	967.76 6,22	2,1820 6	0,8135 81	-153,4	0	11,215 1	1,8194 2
2	3600, 12	1,38592	0	965.00 9,54	2,2191 9	0,8116 3	-152,737	0	11,151 7	1,8119 7
2	3600, 13	1,49713	0	962.27 8,86	2,2561 3	0,8098 73	-152,078	0	11,089	1,8046 4
2	3600, 14	1,60771	0	959.57 3,76	2,2929	0,8082 97	-151,422	0	11,027	1,7974 4
2	3600,	1,71768	0	956.89	2,3295	0,8068	-150,77	0	10,965	1,7903



	15			3,76		91			8	5
2	3600,16	1,82704	0	954.238,36	2,36593	0,805645	-150,122	0	10,9053	1,78339
2	3600,17	1,93579	0	951.607,12	2,4022	0,804548	-149,477	0	10,8455	1,77653
2	3600,18	2,04395	0	948.999,61	2,43832	0,803592	-148,836	0	10,7864	1,76979
2	3600,19	2,15152	0	946.415,35	2,47429	0,802769	-148,198	0	10,728	1,76315
2	3600,2	2,2585	0	943.853,89	2,51012	0,802069	-147,564	0	10,6703	1,75662
2	3600,21	2,38613	0	940.809,83	2,55293	0,801383	-146,807	0	10,6019	1,74891
2	3600,23	2,53821	0	937.199,17	2,60405	0,800767	-145,905	0	10,5211	1,73985
2	3600,24	2,71918	0	932.925,36	2,66504	0,800299	-144,832	0	10,426	1,72923
2	3600,26	2,93421	0	927.880,67	2,73774	0,800096	-143,557	0	10,3143	1,71686
2	3600,29	3,1892	0	921.945,46	2,8243	0,800314	-142,046	0	10,1838	1,7025
2	3600,32	3,49098	0	914.988,18	2,92724	0,801153	-140,259	0	10,0322	1,68595
2	3600,35	3,84724	0	906.867,78	3,04953	0,802866	-138,151	0	9,85696	1,66698
2	3600,4	4,26666	0	897.436,01	3,19465	0,805754	-135,674	0	9,6561	1,64543
2	3600,45	4,75888	0	886.548,03	3,36659	0,810186	-132,775	0	9,42777	1,62115
2	3600,51	5,33449	0	874.068,44	3,56992	0,816585	-129,398	0	9,17082	1,59407
2	3600,59	6,00492	0	859.882,37	3,80978	0,825425	-125,488	0	8,88494	1,5642
2	3600,67	6,78259	0	843.908,69	4,09196	0,837194	-120,99	0	8,5711	1,53163
2	3600,78	7,6808	0	826.113,22	4,42263	0,852413	-115,856	0	8,23161	1,49659
2	3600,	8,71356	0	806.52	4,8079	0,8716	-110,048	0	7,8702	1,4594



	91			7,68	7	46			4	
2	3601,06	9,89559	0	785.254,51	5,25349	0,895518	-103,541	0	7,49217	1,42046
2	3601,25	11,2428	0	762.480,06	5,76296	0,924752	-96,3303	0	7,10373	1,3803
2	3601,47	12,7733	0	738.469,96	6,33658	0,960231	-88,4378	0	6,71214	1,3395
2	3601,74	14,507	0	713.552,48	6,96763	1,00332	-79,9139	0	6,32477	1,29869
2	3602,06	16,4641	0	686.914,29	7,63645	1,06035	-70,6395	0	5,94293	1,25809
2	3602,44	18,6653	0	654.521,59	8,29372	1,15294	-60,0553	0	5,55542	1,21764
2	3602,9	21,1326	0	618.279,40	8,80659	1,29504	-48,8146	0	5,18832	1,18022
2	3603,45	23,8906	0	568.106,75	9,09663	1,55365	-35,9207	0	4,81658	1,14697
2	3604,11	26,9935	0	498.949,14	9,41134	1,90735	-21,9458	0	4,5728	1,12305
2	3604,91	30,5544	0	424.816,09	9,83076	2,3371	-10,0338	0	4,39939	1,11232
2	3605,86	34,6854	0	353.646,95	10,3918	2,82101	-1,33187	0	4,28656	1,11307
2	3607,01	39,5521	0	290.782,10	11,0859	3,34256	4,67791	0	4,22427	1,11984
2	3608,38	45,3361	0	236.780,11	11,9202	3,90723	9,10828	0	4,20189	1,12796
2	3610,03	52,2672	0	191.491,55	12,8998	4,51576	12,3004	0	4,20923	1,13639
2	3612,01	60,6203	0	154.136,37	14,0307	5,17239	14,6315	0	4,23894	1,14424
2	3614,38	70,7371	0	123.734,98	15,3172	5,88176	16,3561	0	4,28517	1,15114
2	3616,47	79,7476	0	104.830,90	16,3895	6,45198	17,3583	0	4,32808	1,15562
2	3616,47	79,7476	0	104.830,90	16,3895	6,4518	17,3583	0	4,32819	1,15562
2	3617,	83,0305	0	99.228,	16,761	6,6490	17,6451	0	4,3438	1,1569



	23			45	7	6			4	8
2	3620,65	98,0225	0	79.389,91	18,3543	7,50129	18,6241	0	4,41399	1,16191
2	3624,75	116,287	0	63.510,50	20,1498	8,4239	19,371	0	4,49047	1,16595
2	3629,67	138,605	0	50.112,70	22,2689	9,50077	19,9686	0	4,57816	1,16947
2	3635,58	165,969	0	38.415,70	24,8124	10,8953	20,6849	0	4,68763	1,17186
2	3642,67	199,654	0	28.753,73	27,8871	12,6605	21,9549	0	4,81661	1,17147
2	3647,66	223,927	0	23.921,22	30,0795	13,898	22,5554	0	4,89995	1,17142
2	3651,17	241,257	0	21.173,47	31,6333	14,7772	22,8839	0	4,95639	1,17144
2	3661,38	292,721	0	15.364,90	36,2029	17,3077	23,5483	0	5,10726	1,1716
2	3671,93	347,325	0	11.541,76	40,9897	19,8509	23,9611	0	5,24322	1,1718

