

Encke		Flyby speed = 28 km/s									
		Approach Phase = 12									
		Nominal CA distance = 130 km									
CA-130km	130km	130km	4 km	Time	Time	100km	130km	130km	130km	4 km	Time
CI Resol.	CI FOV	4 km	Time	Time	Range	Range	CFI Resol.	CFI FOV	4 km	Time	
km/20 urad	1.2 deg	Nucleus		(sec)	(km)	(km)	(km/43urad)	2.5 deg	Nucleus	(sec)	
	(km)	(CI pix)						(km)	(CFI pix)		
36.288	38000.7	0.11	-18 hr	-64800	1814400	1814400	78.02	79168.1	0.05	-64800	
24.192	25333.8	0.17	-12 hr	-43200	1209600	1209600	52.01	52778.8	0.08	-43200	
12.096	12666.9	0.33	-6 hr	-21600	604800	604800	26.01	26389.4	0.15	-21600	
10.080	10555.8	0.40	-5 hr	-18000	504000	504000	21.67	21991.1	0.18	-18000	
8.064	8444.6	0.50	-4 hr	-14400	403200	403200	17.34	17592.9	0.23	-14400	
6.048	6333.5	0.66	-3 hr	-10800	302400	302400	13.00	13194.7	0.31	-10800	
4.032	4222.3	0.99	-2 hr	-7200	201600	201600	8.67	8796.5	0.46	-7200	
2.016	2111.2	1.98	-1 hr	-3600	100800	100800	4.33	4398.2	0.92	-3600	
1.680	1759.3	2.38	-50m	-3000	84000	84000	3.61	3665.2	1.11	-3000	
1.344	1407.4	2.98	-40m	-2400	67200	67200	2.89	2932.2	1.38	-2400	
1.008	1055.6	3.97	-30m	-1800	50400	50400	2.17	2199.1	1.85	-1800	
0.672	703.7	5.95	-20m	-1200	33600	33600	1.44	1466.1	2.77	-1200	
0.448	469.2	8.93	-10m	-800	22400	22400	0.96	977.4	4.15	-800	
0.392	410.5	10.20	-10m	-700	19600	19600	0.84	855.2	4.75	-700	
0.386	404.6	10.35	-10m	-690	19320	19320	0.83	843.0	4.81	-690	
0.381	398.8	10.50	-10m	-680	19040	19040	0.82	830.8	4.89	-680	
0.375	392.9	10.66	-10m	-670	18760	18760	0.81	818.6	4.96	-670	
0.370	387.1	10.82	-10m	-660	18480	18480	0.79	806.4	5.03	-660	
0.364	381.2	10.99	-10m	-650	18200	18200	0.78	794.1	5.11	-650	
0.364	381.2	10.99	-10m	-650	18200	18200	0.78	794.1	5.11	-650	
0.358	375.3	11.16	-10m	-640	17920	17920	0.77	781.9	5.19	-640	
0.353	369.5	11.34	-10m	-630	17640	17640	0.76	769.7	5.27	-630	
0.347	363.6	11.52	-10m	-620	17360	17360	0.75	757.5	5.36	-620	
0.342	357.7	11.71	-10m	-610	17080	17080	0.73	745.3	5.45	-610	
0.336	351.9	11.90	-10m	-600	16800	16801	0.72	733.1	5.54	-600	
0.330	346.0	12.11	-9m50s	-590	16520	16521	0.71	720.8	5.63	-590	
0.325	340.1	12.31	-9m40s	-580	16240	16241	0.70	708.6	5.73	-580	
0.319	334.3	12.53	-9m30s	-570	15960	15961	0.69	696.4	5.83	-570	
0.314	328.4	12.75	-9m20s	-560	15680	15681	0.67	684.2	5.93	-560	
0.308	322.5	12.99	-9m10s	-550	15400	15401	0.66	672.0	6.04	-550	

Sheet1

0.302	316.7	13.23	-9m	-540	15120	15121	0.65	659.8	6.15	-540
0.297	310.8	13.48		-530	14840	14841	0.64	647.5	6.27	-530
0.291	305.0	13.74		-520	14560	14561	0.63	635.3	6.39	-520
0.286	299.1	14.01		-510	14280	14281	0.61	623.1	6.51	-510
0.280	293.2	14.29		-500	14000	14001	0.60	610.9	6.64	-500
0.255	266.8	15.70		-455	12740	12741	0.55	555.9	7.30	-455
0.252	263.9	15.87	-8m	-450	12600	12601	0.54	549.8	7.38	-450
0.249	261.0	16.05		-445	12460	12461	0.54	543.7	7.47	-445
0.246	258.0	16.23		-440	12320	12321	0.53	537.6	7.55	-440
0.244	255.1	16.42		-435	12180	12181	0.52	531.5	7.64	-435
0.241	252.2	16.61		-430	12040	12041	0.52	525.4	7.73	-430
0.238	249.2	16.81		-425	11900	11901	0.51	519.3	7.82	-425
0.235	246.3	17.01	-7m	-420	11760	11761	0.51	513.2	7.91	-420
0.232	243.4	17.21		-415	11620	11621	0.50	507.0	8.00	-415
0.230	240.5	17.42		-410	11480	11481	0.49	500.9	8.10	-410
0.227	237.5	17.64		-405	11340	11341	0.49	494.8	8.20	-405
0.224	234.6	17.86		-400	11200	11201	0.48	488.7	8.31	-400
0.218	228.7	18.31		-390	10920	10921	0.47	476.5	8.52	-390
0.213	222.9	18.80		-380	10640	10641	0.46	464.3	8.74	-380
0.210	219.9	19.05		-375	10500	10501	0.45	458.2	8.86	-375
0.207	217.0	19.30		-370	10360	10361	0.45	452.1	8.98	-370
0.204	214.1	19.57		-365	10220	10221	0.44	446.0	9.10	-365
0.202	211.1	19.84	-6m	-360	10080	10081	0.43	439.9	9.23	-360
0.199	208.2	20.12		-355	9941	9941	0.43	433.8	9.36	-355
0.196	205.3	20.41		-350	9801	9801	0.42	427.6	9.49	-350
0.193	202.3	20.70		-345	9661	9661	0.42	421.5	9.63	-345
0.190	199.4	21.01		-340	9521	9521	0.41	415.4	9.77	-340
0.188	196.5	21.32		-335	9381	9381	0.40	409.3	9.92	-335
0.185	193.5	21.64		-330	9241	9241	0.40	403.2	10.07	-330
0.182	190.6	21.98		-325	9101	9101	0.39	397.1	10.22	-325
0.179	187.7	22.32		-320	8961	8961	0.39	391.0	10.38	-320
0.176	184.7	22.67		-315	8821	8821	0.38	384.9	10.55	-315
0.174	181.8	23.04		-310	8681	8681	0.37	378.8	10.72	-310
0.171	178.9	23.42		-305	8541	8541	0.37	372.7	10.89	-305
0.168	176.0	23.81	-5m	-300	8401	8401	0.36	366.6	11.07	-300
0.165	173.0	24.21		-295	8261	8261	0.36	360.5	11.26	-295
0.162	170.1	24.63		-290	8121	8121	0.35	354.3	11.45	-290

Sheet1

0.160	167.2	25.06		-285	7981	7981	0.34	348.2	11.66	-285
0.157	164.2	25.51		-280	7841	7841	0.34	342.1	11.86	-280
0.154	161.3	25.97		-275	7701	7701	0.33	336.0	12.08	-275
0.151	158.4	26.45		-270	7561	7561	0.33	329.9	12.30	-270
0.148	155.4	26.95		-265	7421	7421	0.32	323.8	12.53	-265
0.146	152.5	27.47		-260	7281	7281	0.31	317.7	12.78	-260
0.143	149.6	28.01		-255	7141	7141	0.31	311.6	13.03	-255
0.140	146.6	28.57		-250	7001	7001	0.30	305.5	13.29	-250
0.137	143.7	29.15		-245	6861	6861	0.30	299.4	13.56	-245
0.134	140.8	29.76	-4m	-240	6721	6721	0.29	293.3	13.84	-240
0.132	137.8	30.39		-235	6581	6581	0.28	287.2	14.13	-235
0.129	134.9	31.05		-230	6441	6441	0.28	281.1	14.44	-230
0.126	132.0	31.74		-225	6301	6301	0.27	274.9	14.76	-225
0.123	129.0	32.46		-220	6161	6161	0.26	268.8	15.10	-220
0.120	126.1	33.21		-215	6021	6021	0.26	262.7	15.45	-215
0.118	123.2	34.01		-210	5881	5881	0.25	256.6	15.82	-210
0.115	120.2	34.83		-205	5741	5741	0.25	250.5	16.20	-205
0.112	117.3	35.70		-200	5601	5602	0.24	244.4	16.61	-200
0.106	111.5	37.58		-190	5321	5322	0.23	232.2	17.48	-190
0.104	108.5	38.60		-185	5181	5182	0.22	226.1	17.95	-185
0.101	105.6	39.67	-3m	-180	5041	5042	0.22	220.0	18.45	-180
0.098	102.7	40.80		-175	4901	4902	0.21	213.9	18.98	-175
0.095	99.7	42.00		-170	4761	4762	0.20	207.8	19.54	-170
0.092	96.8	43.27		-165	4621	4622	0.20	201.7	20.13	-165
0.090	93.9	44.62		-160	4481	4482	0.19	195.6	20.76	-160
0.087	90.9	46.06		-155	4341	4342	0.19	189.5	21.42	-155
0.084	88.0	47.60		-150	4201	4202	0.18	183.3	22.14	-150
0.081	85.1	49.24		-145	4061	4062	0.17	177.2	22.90	-145
0.078	82.1	50.99		-140	3921	3922	0.17	171.1	23.72	-140
0.076	79.2	52.88		-135	3781	3782	0.16	165.0	24.59	-135
0.073	76.3	54.91		-130	3641	3642	0.16	158.9	25.54	-130
0.070	73.4	57.10		-125	3501	3502	0.15	152.8	26.56	-125
0.067	70.4	59.48	-2m	-120	3361	3363	0.14	146.7	27.66	-120
0.064	67.5	62.06		-115	3222	3223	0.14	140.6	28.87	-115
0.062	64.6	64.88		-110	3082	3083	0.13	134.5	30.18	-110
0.059	61.6	67.96		-105	2942	2943	0.13	128.4	31.61	-105
0.056	58.7	71.35		-100	2802	2803	0.12	122.3	33.19	-100

Sheet1

0.053	55.8	75.10		-95	2662	2663	0.11	116.2	34.93	-95
0.050	52.8	79.26		-90	2522	2523	0.11	110.1	36.86	-90
0.048	49.9	83.91		-85	2382	2384	0.10	104.0	39.03	-85
0.045	47.0	89.14		-80	2242	2244	0.10	97.9	41.46	-80
0.042	44.1	95.06		-75	2102	2104	0.09	91.8	44.21	-75
0.042	43.5	96.34		-74	2074	2076	0.09	90.6	44.81	-74
0.041	42.9	97.65		-73	2046	2048	0.09	89.4	45.42	-73
0.040	42.3	99.00		-72	2018	2020	0.09	88.1	46.05	-72
0.040	41.7	100.39		-71	1991	1992	0.09	86.9	46.69	-71
0.039	41.1	101.82		-70	1963	1964	0.08	85.7	47.36	-70
0.039	40.6	103.29		-69	1935	1936	0.08	84.5	48.04	-69
0.038	40.0	104.80		-68	1907	1908	0.08	83.3	48.74	-68
0.038	39.4	106.35		-67	1879	1880	0.08	82.1	49.47	-67
0.037	38.8	107.96		-66	1851	1853	0.08	80.8	50.21	-66
0.036	38.2	109.61		-65	1823	1825	0.08	79.6	50.98	-65
0.036	37.6	111.31		-64	1795	1797	0.08	78.4	51.77	-64
0.035	37.0	113.07		-63	1767	1769	0.08	77.2	52.59	-63
0.035	36.5	114.89		-62	1739	1741	0.07	76.0	53.44	-62
0.034	35.9	116.76		-61	1711	1713	0.07	74.7	54.31	-61
0.034	35.3	118.69	-1m	-60	1683	1685	0.07	73.5	55.21	-60
0.033	34.7	120.69		-59	1655	1657	0.07	72.3	56.14	-59
0.033	34.1	122.76		-58	1627	1629	0.07	71.1	57.10	-58
0.032	33.5	124.90		-57	1599	1601	0.07	69.9	58.09	-57
0.031	33.0	127.11		-56	1571	1573	0.07	68.7	59.12	-56
0.031	32.4	129.41		-55	1543	1545	0.07	67.4	60.19	-55
0.030	31.8	131.79		-54	1515	1518	0.07	66.2	61.30	-54
0.030	31.2	134.26		-53	1487	1490	0.06	65.0	62.44	-53
0.029	30.6	136.82		-52	1459	1462	0.06	63.8	63.64	-52
0.029	30.0	139.48		-51	1431	1434	0.06	62.6	64.87	-51
0.028	29.4	142.25		-50	1404	1406	0.06	61.3	66.16	-50
0.028	28.9	145.12		-49	1376	1378	0.06	60.1	67.50	-49
0.027	28.3	148.12		-48	1348	1350	0.06	58.9	68.89	-48
0.026	27.7	151.24		-47	1320	1322	0.06	57.7	70.34	-47
0.026	27.1	154.49		-46	1292	1295	0.06	56.5	71.86	-46
0.025	26.5	157.89		-45	1264	1267	0.05	55.3	73.44	-45
0.025	25.9	161.44		-44	1236	1239	0.05	54.1	75.09	-44
0.024	25.4	165.15		-43	1208	1211	0.05	52.8	76.82	-43

Sheet1

0.024	24.8	169.04		-42	1180	1183	0.05	51.6	78.62	-42
0.023	24.2	173.11		-41	1152	1155	0.05	50.4	80.52	-41
0.023	23.6	177.38		-40	1124	1128	0.05	49.2	82.50	-40
0.022	23.0	181.87		-39	1097	1100	0.05	48.0	84.59	-39
0.021	22.5	186.58		-38	1069	1072	0.05	46.8	86.78	-38
0.021	21.9	191.55		-37	1041	1044	0.04	45.6	89.09	-37
0.020	21.3	196.78		-36	1013	1016	0.04	44.3	91.53	-36
0.020	20.7	202.31		-35	985	989	0.04	43.1	94.10	-35
0.019	20.1	208.15		-34	957	961	0.04	41.9	96.82	-34
0.019	19.5	214.34		-33	929	933	0.04	40.7	99.69	-33
0.018	19.0	220.90		-32	902	905	0.04	39.5	102.74	-32
0.018	18.4	227.87		-31	874	878	0.04	38.3	105.99	-31
0.017	17.8	235.29		-30	846	850	0.04	37.1	109.44	-30
0.016	17.2	243.21		-29	818	822	0.04	35.9	113.12	-29
0.016	16.6	251.67		-28	790	795	0.03	34.7	117.05	-28
0.015	16.1	260.72		-27	763	767	0.03	33.5	121.27	-27
0.015	15.5	270.45		-26	735	740	0.03	32.3	125.79	-26
0.014	14.9	280.91		-25	707	712	0.03	31.1	130.66	-25
0.014	14.3	292.20		-24	679	684	0.03	29.9	135.91	-24
0.013	13.8	304.42		-23	652	657	0.03	28.7	141.59	-23
0.013	13.2	317.68		-22	624	630	0.03	27.5	147.76	-22
0.012	12.6	332.12		-21	596	602	0.03	26.3	154.47	-21
0.011	12.0	347.89		-20	569	575	0.02	25.1	161.81	-20
0.011	11.5	365.19		-19	541	548	0.02	23.9	169.86	-19
0.010	10.9	384.25		-18	514	520	0.02	22.7	178.72	-18
0.010	10.3	405.32		-17	486	493	0.02	21.5	188.52	-17
0.009	9.8	428.74		-16	459	466	0.02	20.4	199.42	-16
0.009	9.2	454.90		-15	432	440	0.02	19.2	211.58	-15
0.008	8.6	484.27		-14	405	413	0.02	18.0	225.24	-14
0.008	8.1	517.44		-13	377	387	0.02	16.9	240.67	-13
0.007	7.5	555.14		-12	351	360	0.02	15.7	258.20	-12
0.007	7.0	598.24		-11	324	334	0.01	14.6	278.25	-11
0.006	6.5	647.86		-10	297	309	0.01	13.5	301.33	-10
0.006	5.9	705.33		-9	271	284	0.01	12.4	328.06	-9
0.005	5.4	772.23		-8	245	259	0.01	11.3	359.18	-8
0.005	4.9	850.36		-7	220	235	0.01	10.3	395.52	-7
0.004	4.4	941.51		-6	196	212	0.01	9.3	437.91	-6

Sheet1

0.004	4.0	1046.85		-5	172	191	0.01	8.3	486.91	-5
0.003	3.6	1165.55		-4	150	172	0.01	7.5	542.12	-4
0.003	3.2	1292.18		-3	131	155	0.01	6.8	601.01	-3
0.003	2.7	1538.46	-0s	0	100	130	0.01	5.7	715.56	0
0.004	4.4	941.51	6s	6	196	212	0.01	9.3	437.91	6
0.006	6.5	647.86	10s	10	297	309	0.01	13.5	301.33	10
0.011	12.0	347.89	20s	20	569	575	0.02	25.1	161.81	20
0.017	17.8	235.29	30s	30	846	850	0.04	37.1	109.44	30
0.023	23.6	177.38	40s	40	1124	1128	0.05	49.2	82.50	40
0.028	29.4	142.25	50s	50	1404	1406	0.06	61.3	66.16	50
0.034	35.3	118.69	1m	60	1683	1685	0.07	73.5	55.21	60
0.067	70.4	59.48	2m	120	3361	3363	0.14	146.7	27.66	120
0.101	105.6	39.67	3m	180	5041	5042	0.22	220.0	18.45	180
0.168	176.0	23.81	5m	300	8401	8401	0.36	366.6	11.07	300
0.336	351.9	11.90	10m	600	16800	16801	0.72	733.1	5.54	600
0.672	703.7	5.95	20m	1200	33600	33600	1.44	1466.1	2.77	1200
1.008	1055.6	3.97	30m	1800	50400	50400	2.17	2199.1	1.85	1800

Encke - data for off-nominal miss distances																		
100km	100km	100km	115km	115km	115km	130km	130km	130km	145km	145km	145km	160km	160km	160km	170km	170km	170km	
Angle to Nucleus	Phase Angle	filter	Angle to Nucleus	Phase Angle	filter	Angle to Nucleus	Phase Angle	filter	Angle to Nucleus	Phase Angle	filter	Angle to Nucleus	Phase Angle	filter	Angle to Nucleus	Phase Angle	filter	Time (sec)
0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		-64800
0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		-43200
0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		-21600
0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		-18000
0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		-14400
0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		-10800
0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		0.0	12.0		-7200
0.1	11.9		0.1	11.9		0.1	11.9		0.1	11.9		0.1	11.9		0.1	11.9		-3600
0.1	11.9		0.1	11.9		0.1	11.9		0.1	11.9		0.1	11.9		0.1	11.9		-3000
0.1	11.9		0.1	11.9		0.1	11.9		0.1	11.9		0.1	11.9		0.1	11.9		-2400
0.1	11.9		0.1	11.9		0.1	11.9		0.2	11.8		0.2	11.8		0.2	11.8		-1800
0.2	11.8		0.2	11.8		0.2	11.8		0.2	11.8		0.3	11.7		0.3	11.7		-1200
0.3	11.7		0.3	11.7		0.3	11.7		0.4	11.6		0.4	11.6		0.4	11.6		-800
0.3	11.7		0.3	11.7		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		-700
0.3	11.7		0.3	11.7		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		-690
0.3	11.7		0.3	11.7		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		-680
0.3	11.7		0.4	11.6		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		-670
0.3	11.7		0.4	11.6		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		-660
0.3	11.7		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.5	11.5		-650
0.3	11.7		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.5	11.5		-650
0.3	11.7		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.5	11.5		-640
0.3	11.7		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		-630
0.3	11.7		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		-620
0.3	11.7		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		-610
0.3	11.7		0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		-600
0.3	11.7		0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		0.6	11.4		-590
0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		0.6	11.4		-580
0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		0.6	11.4		-570
0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		0.6	11.4		-560
0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		0.6	11.4		-550

Sheet1

0.4	11.6		0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		0.6	11.4		-540
0.4	11.6		0.4	11.6		0.5	11.5		0.6	11.4		0.6	11.4		0.7	11.3		-530
0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		0.6	11.4		0.7	11.3		-520
0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		0.6	11.4		0.7	11.3		-510
0.4	11.6		0.5	11.5		0.5	11.5		0.6	11.4		0.7	11.3		0.7	11.3		-500
0.4	11.6		0.5	11.5		0.6	11.4		0.7	11.3		0.7	11.3		0.8	11.2		-455
0.5	11.5		0.5	11.5		0.6	11.4		0.7	11.3		0.7	11.3		0.8	11.2		-450
0.5	11.5		0.5	11.5		0.6	11.4		0.7	11.3		0.7	11.3		0.8	11.2		-445
0.5	11.5		0.5	11.5		0.6	11.4		0.7	11.3		0.7	11.3		0.8	11.2		-440
0.5	11.5		0.5	11.5		0.6	11.4		0.7	11.3		0.8	11.2		0.8	11.2		-435
0.5	11.5		0.5	11.5		0.6	11.4		0.7	11.3		0.8	11.2		0.8	11.2		-430
0.5	11.5		0.6	11.4		0.6	11.4		0.7	11.3		0.8	11.2		0.8	11.2		-425
0.5	11.5		0.6	11.4		0.6	11.4		0.7	11.3		0.8	11.2		0.8	11.2		-420
0.5	11.5		0.6	11.4		0.6	11.4		0.7	11.3		0.8	11.2		0.8	11.2		-415
0.5	11.5		0.6	11.4		0.6	11.4		0.7	11.3		0.8	11.2		0.8	11.2		-410
0.5	11.5		0.6	11.4		0.7	11.3		0.7	11.3		0.8	11.2		0.9	11.1		-405
0.5	11.5		0.6	11.4		0.7	11.3		0.7	11.3		0.8	11.2		0.9	11.1		-400
0.5	11.5		0.6	11.4		0.7	11.3		0.8	11.2		0.8	11.2		0.9	11.1		-390
0.5	11.5		0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		0.9	11.1		-380
0.5	11.5		0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		0.9	11.1		-375
0.6	11.4		0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		0.9	11.1		-370
0.6	11.4		0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		-365
0.6	11.4		0.7	11.3		0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		-360
0.6	11.4		0.7	11.3		0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		-355
0.6	11.4		0.7	11.3		0.8	11.2		0.8	11.2		0.9	11.1		1.0	11.0		-350
0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		0.9	11.1		1.0	11.0		-345
0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.0	11.0		-340
0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.0	11.0		-335
0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		-330
0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		-325
0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		-320
0.6	11.4		0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		-315
0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		1.1	10.9		-310
0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		1.1	10.9		-305
0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		1.2	10.8		-300
0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		1.2	10.8		-295
0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		1.2	10.8		-290

Sheet1

0.7	11.3		0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		1.2	10.8		-285
0.7	11.3		0.8	11.2		0.9	11.1		1.1	10.9		1.2	10.8		1.2	10.8		-280
0.7	11.3		0.9	11.1		1.0	11.0		1.1	10.9		1.2	10.8		1.3	10.7		-275
0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		1.2	10.8		1.3	10.7		-270
0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		1.2	10.8		1.3	10.7		-265
0.8	11.2		0.9	11.1		1.0	11.0		1.1	10.9		1.3	10.7		1.3	10.7		-260
0.8	11.2		0.9	11.1		1.0	11.0		1.2	10.8		1.3	10.7		1.4	10.6		-255
0.8	11.2		0.9	11.1		1.1	10.9		1.2	10.8		1.3	10.7		1.4	10.6		-250
0.8	11.2		1.0	11.0		1.1	10.9		1.2	10.8		1.3	10.7		1.4	10.6		-245
0.9	11.1		1.0	11.0		1.1	10.9		1.2	10.8		1.4	10.6		1.4	10.6		-240
0.9	11.1		1.0	11.0		1.1	10.9		1.3	10.7		1.4	10.6		1.5	10.5		-235
0.9	11.1		1.0	11.0		1.2	10.8		1.3	10.7		1.4	10.6		1.5	10.5		-230
0.9	11.1		1.0	11.0		1.2	10.8		1.3	10.7		1.5	10.5		1.5	10.5		-225
0.9	11.1		1.1	10.9		1.2	10.8		1.3	10.7		1.5	10.5		1.6	10.4		-220
1.0	11.0		1.1	10.9		1.2	10.8		1.4	10.6		1.5	10.5		1.6	10.4		-215
1.0	11.0		1.1	10.9		1.3	10.7		1.4	10.6		1.6	10.4		1.7	10.3		-210
1.0	11.0		1.1	10.9		1.3	10.7		1.4	10.6		1.6	10.4		1.7	10.3		-205
1.0	11.0		1.2	10.8		1.3	10.7		1.5	10.5		1.6	10.4		1.7	10.3		-200
1.1	10.9		1.2	10.8		1.4	10.6		1.6	10.4		1.7	10.3		1.8	10.2		-190
1.1	10.9		1.3	10.7		1.4	10.6		1.6	10.4		1.8	10.2		1.9	10.1		-185
1.1	10.9		1.3	10.7		1.5	10.5		1.6	10.4		1.8	10.2		1.9	10.1		-180
1.2	10.8		1.3	10.7		1.5	10.5		1.7	10.3		1.9	10.1		2.0	10.0		-175
1.2	10.8		1.4	10.6		1.6	10.4		1.7	10.3		1.9	10.1		2.0	10.0		-170
1.2	10.8		1.4	10.6		1.6	10.4		1.8	10.2		2.0	10.0		2.1	9.9		-165
1.3	10.7		1.5	10.5		1.7	10.3		1.9	10.1		2.0	10.0		2.2	9.8		-160
1.3	10.7		1.5	10.5		1.7	10.3		1.9	10.1		2.1	9.9		2.2	9.8		-155
1.4	10.6		1.6	10.4		1.8	10.2		2.0	10.0		2.2	9.8		2.3	9.7		-150
1.4	10.6		1.6	10.4		1.8	10.2		2.0	10.0		2.3	9.7		2.4	9.6		-145
1.5	10.5		1.7	10.3		1.9	10.1		2.1	9.9		2.3	9.7		2.5	9.5		-140
1.5	10.5		1.7	10.3		2.0	10.0		2.2	9.8		2.4	9.6		2.6	9.4		-135
1.6	10.4		1.8	10.2		2.0	10.0		2.3	9.7		2.5	9.5		2.7	9.3		-130
1.6	10.4		1.9	10.1		2.1	9.9		2.4	9.6		2.6	9.4		2.8	9.2		-125
1.7	10.3		2.0	10.0		2.2	9.8		2.5	9.5		2.7	9.3		2.9	9.1		-120
1.8	10.2		2.0	10.0		2.3	9.7		2.6	9.4		2.8	9.2		3.0	9.0		-115
1.9	10.1		2.1	9.9		2.4	9.6		2.7	9.3		3.0	9.0		3.2	8.8		-110
1.9	10.1		2.2	9.8		2.5	9.5		2.8	9.2		3.1	8.9		3.3	8.7		-105
2.0	10.0		2.4	9.6		2.7	9.3		3.0	9.0		3.3	8.7		3.5	8.5		-100

Sheet1

2.2	9.8		2.5	9.5		2.8	9.2		3.1	8.9		3.4	8.6		3.7	8.3		-95
2.3	9.7		2.6	9.4		3.0	9.0		3.3	8.7		3.6	8.4		3.9	8.1		-90
2.4	9.6		2.8	9.2		3.1	8.9		3.5	8.5		3.8	8.2		4.1	7.9		-85
2.6	9.4		2.9	9.1		3.3	8.7		3.7	8.3		4.1	7.9		4.3	7.7		-80
2.7	9.3		3.1	8.9		3.5	8.5		3.9	8.1		4.4	7.6		4.6	7.4		-75
2.8	9.2		3.2	8.8		3.6	8.4		4.0	8.0		4.4	7.6		4.7	7.3		-74
2.8	9.2		3.2	8.8		3.6	8.4		4.1	7.9		4.5	7.5		4.8	7.2		-73
2.8	9.2		3.3	8.7		3.7	8.3		4.1	7.9		4.5	7.5		4.8	7.2		-72
2.9	9.1		3.3	8.7		3.7	8.3		4.2	7.8		4.6	7.4		4.9	7.1		-71
2.9	9.1		3.4	8.6		3.8	8.2		4.2	7.8		4.7	7.3		5.0	7.0		-70
3.0	9.0		3.4	8.6		3.8	8.2		4.3	7.7		4.7	7.3		5.0	7.0		-69
3.0	9.0		3.5	8.5		3.9	8.1		4.4	7.6		4.8	7.2		5.1	6.9		-68
3.1	8.9		3.5	8.5		4.0	8.0		4.4	7.6		4.9	7.1		5.2	6.8		-67
3.1	8.9		3.6	8.4		4.0	8.0		4.5	7.5		4.9	7.1		5.3	6.7		-66
3.1	8.9		3.6	8.4		4.1	7.9		4.6	7.4		5.0	7.0		5.3	6.7		-65
3.2	8.8		3.7	8.3		4.1	7.9		4.6	7.4		5.1	6.9		5.4	6.6		-64
3.2	8.8		3.7	8.3		4.2	7.8		4.7	7.3		5.2	6.8		5.5	6.5		-63
3.3	8.7		3.8	8.2		4.3	7.7		4.8	7.2		5.3	6.7		5.6	6.4		-62
3.4	8.6		3.9	8.1		4.4	7.6		4.9	7.1		5.4	6.6		5.7	6.3		-61
3.4	8.6		3.9	8.1		4.4	7.6		4.9	7.1		5.4	6.6		5.8	6.2		-60
3.5	8.5		4.0	8.0		4.5	7.5		5.0	7.0		5.5	6.5		5.9	6.1		-59
3.5	8.5		4.1	7.9		4.6	7.4		5.1	6.9		5.6	6.4		6.0	6.0	1	-58
3.6	8.4		4.1	7.9		4.7	7.3		5.2	6.8		5.7	6.3		6.1	5.9	2	-57
3.6	8.4		4.2	7.8		4.7	7.3		5.3	6.7		5.8	6.2		6.2	5.8	3	-56
3.7	8.3		4.3	7.7		4.8	7.2		5.4	6.6		5.9	6.1		6.3	5.7	4	-55
3.8	8.2		4.3	7.7		4.9	7.1		5.5	6.5		6.0	6.0	1	6.4	5.6	5	-54
3.9	8.1		4.4	7.6		5.0	7.0		5.6	6.4		6.2	5.8	2	6.5	5.5	6	-53
3.9	8.1		4.5	7.5		5.1	6.9		5.7	6.3		6.3	5.7	3	6.7	5.3	7	-52
4.0	8.0		4.6	7.4		5.2	6.8		5.8	6.2		6.4	5.6	4	6.8	5.2	8	-51
4.1	7.9		4.7	7.3		5.3	6.7		5.9	6.1		6.5	5.5	5	6.9	5.1	9	-50
4.2	7.8		4.8	7.2		5.4	6.6		6.0	6.0	1	6.7	5.3	6	7.1	4.9	10	-49
4.3	7.7		4.9	7.1		5.5	6.5		6.2	5.8	2	6.8	5.2	7	7.2	4.8	1	-48
4.3	7.7		5.0	7.0		5.6	6.4		6.3	5.7	3	6.9	5.1	8	7.4	4.6	2	-47
4.4	7.6		5.1	6.9		5.8	6.2		6.4	5.6	4	7.1	4.9	9	7.5	4.5	1	-46
4.5	7.5		5.2	6.8		5.9	6.1		6.6	5.4	5	7.2	4.8	10	7.7	4.3	10	-45
4.6	7.4		5.3	6.7		6.0	6.0	1	6.7	5.3	6	7.4	4.6	1	7.9	4.1	1	-44
4.7	7.3		5.5	6.5		6.2	5.8	2	6.9	5.1	7	7.6	4.4	2	8.0	4.0	2	-43

Sheet1

4.9	7.1		5.6	6.4		6.3	5.7	3	7.0	5.0	8	7.7	4.3	1	8.2	3.8	1	-42
5.0	7.0		5.7	6.3		6.5	5.5	4	7.2	4.8	9	7.9	4.1	1	8.4	3.6	1	-41
5.1	6.9		5.9	6.1		6.6	5.4	5	7.4	4.6	10	8.1	3.9	1	8.6	3.4	1	-40
5.2	6.8		6.0	6.0	1	6.8	5.2	6	7.6	4.4	1	8.3	3.7	1	8.8	3.2	1	-39
5.4	6.6		6.2	5.8	2	7.0	5.0	7	7.8	4.2	2	8.6	3.4	1	9.1	2.9	1	-38
5.5	6.5		6.3	5.7	3	7.2	4.8	8	8.0	4.0	1	8.8	3.2	1	9.3	2.7	1	-37
5.7	6.3		6.5	5.5	4	7.3	4.7	9	8.2	3.8	10	9.0	3.0	1	9.6	2.4	1	-36
5.8	6.2		6.7	5.3	5	7.6	4.4	10	8.4	3.6	1	9.3	2.7	1	9.8	2.2	1	-35
6.0	6.0	1	6.9	5.1	6	7.8	4.2	1	8.7	3.3	2	9.5	2.5	1	10.1	1.9	1	-34
6.2	5.8	2	7.1	4.9	7	8.0	4.0	2	8.9	3.1	1	9.8	2.2	1	10.4	1.6	1	-33
6.4	5.6	3	7.3	4.7	8	8.3	3.7	1	9.2	2.8	1	10.1	1.9	1	10.7	1.3	1	-32
6.6	5.4	4	7.5	4.5	9	8.5	3.5	10	9.5	2.5	1	10.4	1.6	1	11.1	0.9	1	-31
6.8	5.2	5	7.8	4.2	10	8.8	3.2	1	9.8	2.2	1	10.8	1.2	1	11.4	0.6	1	-30
7.0	5.0	6	8.1	3.9	1	9.1	2.9	2	10.1	1.9	1	11.1	0.9	1	11.8	0.2	1	-29
7.3	4.7	7	8.3	3.7	2	9.4	2.6	1	10.5	1.5	1	11.5	0.5	1	12.2	0.2	1	-28
7.5	4.5	8	8.6	3.4	1	9.8	2.2	1	10.9	1.1	1	11.9	0.1	1	12.7	0.7	1	-27
7.8	4.2	9	9.0	3.0	1	10.1	1.9	1	11.3	0.7	1	12.4	0.4	1	13.1	1.1	1	-26
8.1	3.9	10	9.3	2.7	1	10.5	1.5	1	11.7	0.3	1	12.9	0.9	1	13.7	1.7	1	-25
8.5	3.5	1	9.7	2.3	1	10.9	1.1	1	12.2	0.2	1	13.4	1.4	1	14.2	2.2	1	-24
8.8	3.2	2	10.1	1.9	1	11.4	0.6	1	12.7	0.7	1	14.0	2.0	1	14.8	2.8	1	-23
9.2	2.8	1	10.6	1.4	1	11.9	0.1	1	13.2	1.2	1	14.6	2.6	1	15.4	3.4	1	-22
9.7	2.3	1	11.1	0.9	1	12.5	0.5	1	13.9	1.9	1	15.2	3.2	1	16.1	4.1	1	-21
10.1	1.9	1	11.6	0.4	1	13.1	1.1	1	14.5	2.5	1	15.9	3.9	1	16.9	4.9	10	-20
10.6	1.4	1	12.2	0.2	1	13.7	1.7	1	15.2	3.2	1	16.7	4.7	10	17.7	5.7	1	-19
11.2	0.8	1	12.9	0.9	1	14.5	2.5	1	16.1	4.1	1	17.6	5.6	1	18.6	6.6	2	-18
11.9	0.1	1	13.6	1.6	1	15.3	3.3	1	16.9	4.9	10	18.6	6.6	2	19.7	7.7	1	-17
12.6	0.6	1	14.4	2.4	1	16.2	4.2	1	17.9	5.9	1	19.7	7.7	1	20.8	8.8	1	-16
13.4	1.4	1	15.3	3.3	1	17.2	5.2	1	19.0	7.0	2	20.9	8.9	1	22.0	10.0	1	-15
14.3	2.3	1	16.3	4.3	1	18.3	6.3	1	20.3	8.3	1	22.2	10.2	1	23.4	11.4	1	-14
15.4	3.4	1	17.5	5.5	1	19.7	7.7	1	21.7	9.7	1	23.7	11.7	1	25.0	13.0	1	-13
16.6	4.6	1	18.9	6.9	1	21.2	9.2	1	23.3	11.3	1	25.5	13.5	1	26.8	14.8	1	-12
18.0	6.0	1	20.5	8.5	1	22.9	10.9	1	25.2	13.2	1	27.5	15.5	1	28.9	16.9	1	-11
19.7	7.7	1	22.3	10.3	1	24.9	12.9	1	27.4	15.4	1	29.7	17.7	1	31.3	19.3		-10
21.6	9.6	1	24.5	12.5	1	27.3	15.3	1	29.9	17.9	1	32.4	20.4		34.0	22.0		-9
24.1	12.1	1	27.2	15.2	1	30.1	18.1		32.9	20.9		35.5	23.5		37.2	25.2		-8
27.0	15.0	1	30.4	18.4		33.6	21.6		36.5	24.5		39.2	27.2		40.9	28.9		-7
30.8	18.8		34.4	22.4		37.7	25.7		40.8	28.8		43.6	31.6		45.3	33.3		-6

Sheet1

35.5	23.5		39.4	27.4		42.9	30.9		46.0	34.0		48.8	36.8		50.5	38.5		-5
41.8	29.8		45.8	33.8		49.3	37.3		52.3	40.3		55.0	43.0		56.6	44.6		-4
50.0	38.0		53.9	41.9		57.1	45.1		59.9	47.9		62.3	50.3		63.7	51.7		-3
90.0	78.0		#DIV/0!	#DIV/0!		90.0	78.0		90.0	78.0		90.0	78.0		90.0	78.0		0
30.8	198.8		34.4	202.4		37.7	205.7		40.8	208.8		43.6	211.6		45.3	33.3		6
19.7	187.7		22.3	190.3		24.9	192.9		27.4	195.4		29.7	197.7		31.3	19.3		10
10.1	178.1		11.6	179.6		13.1	181.1		14.5	182.5		15.9	183.9		16.9	4.9		20
6.8	174.8		7.8	175.8		8.8	176.8		9.8	177.8		10.8	178.8		11.4	0.6		30
5.1	173.1		5.9	173.9		6.6	174.6		7.4	175.4		8.1	176.1		8.6	3.4		40
4.1	172.1		4.7	172.7		5.3	173.3		5.9	173.9		6.5	174.5		6.9	5.1		50
3.4	171.4		3.9	171.9		4.4	172.4		4.9	172.9		5.4	173.4		5.8	6.2		60
1.7	169.7		2.0	170.0		2.2	170.2		2.5	170.5		2.7	170.7		2.9	9.1		120
1.1	169.1		1.3	169.3		1.5	169.5		1.6	169.6		1.8	169.8		1.9	10.1		180
0.7	168.7		0.8	168.8		0.9	168.9		1.0	169.0		1.1	169.1		1.2	10.8		300
0.3	168.3		0.4	168.4		0.4	168.4		0.5	168.5		0.5	168.5		0.6	11.4		600
0.2	168.2		0.2	168.2		0.2	168.2		0.2	168.2		0.3	168.3		0.3	11.7		1200
0.1	168.1		0.1	168.1		0.1	168.1		0.2	168.2		0.2	168.2		0.2	11.8		1800