

Table 2. Equivalent Widths (E.W., mÅ) and Abundances $\lg \varepsilon(X)$ of Individual Lines

Element	λ , Å	$\lg gf$	G27-44		HD188510		G37-26		HD115444	
			E.W.	$\lg \varepsilon(X)$	E.W.	$\lg \varepsilon(X)$	E.W.	$\lg \varepsilon(X)$	E.W.	$\lg \varepsilon(X)$
Na 1	4497.657	-1.560	6.6	5.533						
Na 1	4668.559	-1.300	14.9	5.657						
Na 1	4982.814	-0.950	28.8	5.659					1.5	3.725
Mg 1	3832.304	0.121							191.7	5.066:
Mg 1	3838.292	0.392							211.9	4.928:
Mg 1	3986.753	-1.444	125.0	7.284	77.3	6.495	29.8	6.206	21.1	5.511
Mg 1	4057.505	-1.201	154.3	7.359	93.8	6.385	41.9	6.171	35.5	5.590
Mg 1	4165.101	-2.680	10.2	6.944	13.3	6.866:				
Mg 1	4167.271	-1.004	148.0	7.229	113.7	6.346	52.2	6.134	41.1	5.500
Mg 1	4571.096	-5.691	70.5	7.071	66.0	6.232	16.2	5.973	53.6	5.238
Mg 1	4702.991	-0.666	158.0	6.787	144.7	6.038	73.8	5.951	56.2	5.373
Mg 1	4730.029	-2.523	27.0	7.283	8.7	6.486				
Al 1	3944.006	-0.623	313.7	5.457	307.5	4.251	108.5	3.930	153.0	3.856
Al 1	3961.520	-0.323	259.3	4.986	258.6	3.797	96.1	3.488	117.5	3.032
Si 1	3905.523	-1.090	352.9	6.710	422.8	5.765	176.5	5.614	191.6	5.284
Si 1	4102.936	-3.140							59.5	5.068
Ca 1	4094.925	-1.736	50.7	6.880:	29.3	6.130:	8.6	5.718:	8.8	5.074:
Ca 1	4098.528	-1.579			36.7	6.112:			12.1	5.077:
Ca 1	4203.117	-0.923	21.1	5.708	21.5	5.484	4.2	4.923	7.3	4.619:
Ca 1	4226.728	0.265					198.1	4.166:	170.2	3.477:
Ca 1	4283.011	-0.292	110.1	6.173	97.1	5.258	50.0	4.890	47.9	3.931
Ca 1	4318.652	-0.295	99.0	6.004	86.3	5.135	44.1	4.759	42.1	3.838
Ca 1	4355.079	-2.544	67.3	8.129:	34.1	7.173:	8.5	6.669:		
Ca 1	4425.437	-0.286	98.2	5.585	89.7	4.698	39.4	4.497	36.8	3.682
Ca 1	4434.957	0.066	124.0	5.540	118.6	4.585	58.8	4.475	57.1	3.725
Ca 1	4435.679	-0.412	95.4	5.670	79.7	4.731	32.8	4.494	41.9	3.908
Ca 1	4454.779	0.335	143.7	5.453	141.3	4.475	73.8	4.447	68.6	3.702
Ca 1	4455.887	-0.414	101.3	5.759	76.5	4.710	31.5	4.478	29.1	3.660
Ca 1	4456.616	-1.590	45.6	5.999	20.7	5.102	4.9	4.691	6.2	4.025
Ca 1	4526.928	-0.907	49.8	6.118	25.7	5.346	7.8	4.984		

Element	λ , Å	$\lg gf$	E.W.		$\lg \varepsilon(X)$		E.W.		$\lg \varepsilon(X)$	
			G27-44	HD188510	G37-26	HD115444				
Ca 1	4578.551	-0.170	48.4	5.274	27.0	4.524	8.5	4.122:	8.3	3.452:
Ca 1	4685.268	-0.544	22.9	5.397	10.8	4.762				
Sc 2	3567.696	-0.476	103.8	3.099	70.4	1.930	41.0	1.321	87.7	0.592
Sc 2	3576.340	0.007	129.9	3.005	101.2	1.914	66.6	1.611	125.7	1.043:
Sc 2	4246.822	0.242	131.1	2.769	93.3	1.699	67.3	1.450	114.6	0.600
Sc 2	4314.083	-0.096	113.3	3.068	76.4	2.060	38.3	1.297	91.3	0.679
Sc 2	4320.732	-0.252	92.7	2.829	53.9	1.765	28.0	1.175	73.3	0.365
Sc 2	4374.457	-0.418	92.1	3.004	55.0	1.974	24.3	1.256	68.0	0.424
Sc 2	4415.557	-0.668	85.2	3.068	48.8	2.060	15.1	1.192	53.5	0.344
Sc 2	4670.407	-0.576	45.5	2.724	11.5	1.768	5.0	1.283	19.5	0.435
Ti 1	3598.713	-0.262	44.5	4.737	27.7	3.782				
Ti 1	3717.391	-1.210	25.4	4.239			6.3	3.387		
Ti 1	3729.807	-0.351	68.3	4.518	57.9	3.577	24.4	3.271	48.6	2.418
Ti 1	3741.059	-0.213	70.1	4.444	64.6	3.585	28.1	3.253	54.2	2.425
Ti 1	3817.642	-0.378	85.9	6.807:	53.6	5.530:	17.3	5.080:	39.5	4.703:
Ti 1	3924.527	-0.937			40.7	3.781	9.3	3.302	26.1	2.505
Ti 1	3958.206	-0.177	76.6	4.544	72.1	3.674	32.7	3.342	67.3	2.690
Ti 1	4052.926	-0.723	11.6	5.303:	14.4	5.074:				
Ti 1	4055.012	-0.680	59.1	5.470:	38.5	4.483:	8.2	3.959:	14.5	3.115:
Ti 1	4060.262	-0.520	13.5	4.134:	8.6	3.457:				
Ti 1	4122.145	-0.409	6.8	5.173:						
Ti 1	4159.637	-0.246	6.7	4.543						
Ti 1	4186.117	-0.305	18.8	4.507	12.6	3.881				
Ti 1	4263.133	0.211	31.3	4.690	10.3	3.657				
Ti 1	4281.367	-1.359	10.2	4.583						
Ti 1	4287.403	-0.442	34.4	4.404	26.4	3.724	7.0	3.416		
Ti 1	4301.079	0.260	154.7	5.978:	161.5	4.935:	53.4	4.173:	73.8	3.276:
Ti 1	4305.908	0.510			119.2	4.368:	47.4	3.773:		
Ti 1	4417.273	-0.020	25.9	4.768						
Ti 1	4449.143	0.500	29.1	4.319	17.3	3.609				
Ti 1	4453.312	-0.051	33.8	4.549	17.8	3.712	4.0	3.326		
Ti 1	4453.699	-0.010	19.5	4.561	10.7	3.861	1.7	3.322		
Ti 1	4465.805	-0.163	13.1	4.366	6.4	3.628				
Ti 1	4471.237	-0.103	19.9	4.535	8.6	3.705				
Ti 1	4503.757	-0.804	4.0	4.803						

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			G27-44	lg $\varepsilon(X)$	HD188510	lg $\varepsilon(X)$	G37-26	lg $\varepsilon(X)$	HD115444	lg $\varepsilon(X)$
Ti 1	4512.734	-0.480	31.4	4.351	25.7	3.725	5.2	3.300	12.6	2.552
Ti 1	4518.022	-0.325	41.8	4.414	32.9	3.714	6.8	3.253	18.0	2.565
Ti 1	4534.776	0.280	65.5	4.357	58.3	3.581	18.6	3.186	31.8	2.315
Ti 1	4548.763	-0.354	37.7	4.350	29.2	3.662	6.8	3.286	13.0	2.425
Ti 1	4555.484	-0.488	33.2	4.410	24.1	3.706	4.5	3.251	7.6	2.333
Ti 1	4617.269	0.389	31.9	4.353	20.3	3.655	4.0	3.183	6.8	2.450
Ti 1	4623.097	0.110	22.5	4.389	11.8	3.637				
Ti 1	4629.336	-0.237	72.3	5.940:	33.6	4.617:	17.8	4.551:	29.8	3.851:
Ti 1	4639.361	-0.015	18.4	4.401	9.5	3.665				
Ti 1	4639.661	-0.112	19.3	4.528	6.4	3.574				
Ti 1	4639.939	-0.192	12.0	4.333	6.3	3.632				
Ti 1	4645.188	-0.557	5.0	4.284	5.1	3.900				
Ti 1	4656.469	-1.345	33.1	4.438	26.3	3.727	4.6	3.277	12.3	2.394
Ti 1	4675.117	-1.373	10.9	4.831						
Ti 1	4681.909	-1.071	41.9	4.407	34.0	3.675			20.5	2.444
Ti 1	4758.118	0.425	17.0	4.375	10.6	3.776				
Ti 1	4759.270	0.514	18.9	4.361	8.9	3.618				
Ti 1	4781.711	-1.960	3.9	4.719						
Ti 1	4820.411	-0.441	12.6	4.377	6.7	3.652			5.5	2.880:
Ti 1	4840.874	-0.509	30.4	4.394	21.2	3.688			8.6	2.444
Ti 1	4913.614	0.160	21.1	4.406	9.5	3.595			4.8	2.649
Ti 1	4921.764	-0.070	16.0	4.764	6.6	3.967:			8.4	3.490:
Ti 1	4928.336	0.050	9.1	4.332	6.3	3.806				
Ti 1	4981.731	0.504	78.9	4.400	73.2	3.559	29.8	3.250	46.6	2.354
Ti 2	3659.761	-0.740	82.7	4.643	67.6	4.098:	36.8	3.337	61.9	2.331
Ti 2	3774.640	-2.730							43.8	2.683
Ti 2	3987.600	-2.790	35.5	4.454	15.8	3.819	6.8	3.342	34.9	2.564
Ti 2	4028.343	-0.990	71.8	4.779	41.7	4.013	19.1	3.338	45.0	2.498
Ti 2	4053.834	-1.060	59.0	4.509	27.8	3.758	13.1	3.190	31.7	2.295
Ti 2	4163.648	-0.210	79.7	4.816	42.4	3.940	21.6	3.297	40.1	2.432
Ti 2	4184.303	-2.510	52.5	4.997:	28.1	4.362:	8.9	3.634:	31.0	2.745:
Ti 2	4301.914	-1.200	122.3	5.203:	99.9	4.461:	47.7	3.564:	91.3	2.842:
Ti 2	4316.799	-1.580	29.8	4.430	11.3	3.888	3.9	3.245	14.7	2.518
Ti 2	4337.915	-0.980							94.4	2.612
Ti 2	4344.288	-1.930							50.9	2.541
Ti 2	4386.844	-0.940	47.3	4.720			5.8	3.316	15.4	2.544

Element	$\lambda, \text{\AA}$	$\lg gf$	G27-44		HD188510		G37-26		HD115444	
			E.W.	$\lg \varepsilon(X)$	E.W.	$\lg \varepsilon(X)$	E.W.	$\lg \varepsilon(X)$	E.W.	$\lg \varepsilon(X)$
Ti 2	4394.051	-1.770	66.4	4.704	38.5	3.992	15.2	3.294	48.3	2.486
Ti 2	4395.033	-0.510	130.5	4.578	103.5	3.726	75.9	3.526	116.4	2.668
Ti 2	4395.850	-1.970	53.6	4.612	24.1	3.863	10.6	3.323	37.1	2.497
Ti 2	4411.925	-2.550	28.9	4.593	8.2	3.840			13.2	2.450
Ti 2	4417.719	-1.230	95.9	4.813	64.8	3.950	38.6	3.355	80.8	2.600
Ti 2	4418.330	-1.990	59.5	4.774	25.9	3.928	8.9	3.246	36.4	2.493
Ti 2	4427.882	-3.240	8.0	4.584						
Ti 2	4443.794	-0.700	115.0	4.536	86.4	3.681	67.6	3.504	104.9	2.563
Ti 2	4464.450	-1.810	70.1	4.782	34.1	3.858	15.3	3.273	51.5	2.508
Ti 2	4468.507	-0.600	119.7	4.551	87.0	3.642	70.8	3.531	105.2	2.522
Ti 2	4469.138	-2.510	42.7	4.730					22.7	2.525
Ti 2	4470.857	-2.060	51.2	4.560	21.2	3.788	8.1	3.194	43.2	2.606
Ti 2	4501.273	-0.760	113.8	4.608	81.6	3.702	63.9	3.496	100.5	2.537
Ti 2	4533.969	-0.540	121.5	4.618	87.6	3.707	68.8	3.523	108.2	2.644
Ti 2	4544.028	-2.530	26.6	4.524			2.6	3.206	18.0	2.600
Ti 2	4545.133	-2.460	37.1	4.593	11.8	3.820	4.7	3.298	20.5	2.469
Ti 2	4563.761	-0.790	107.0	4.620	78.3	3.795	57.1	3.450	95.1	2.539
Ti 2	4568.314	-3.030	18.0	4.764					9.8	2.769:
Ti 2	4571.968	-0.230	120.5	4.531	85.5	3.649	63.3	3.372	92.8	2.337
Ti 2	4583.409	-2.870	18.6	4.567	5.1	3.857	2.5	3.450:	10.4	2.565
Ti 2	4589.958	-1.620	70.0	4.635	36.9	3.801	18.8	3.266	54.8	2.450
Ti 2	4609.264	-3.430	5.1	4.489					3.3	2.614
Ti 2	4636.320	-2.855	10.8	4.251:					6.0	2.280:
Ti 2	4874.014	-0.900	22.2	4.489					4.5	2.463
Ti 2	4911.193	-0.650	33.8	4.560			4.0	3.326	4.5	2.245:
V 1	3992.792	0.460	30.4	4.409:	9.2	3.338:				
V 1	4111.774	0.408	45.3	3.316	33.1	2.494	5.6	1.948	14.1	1.107
V 1	4115.176	0.071	29.3	3.267	17.9	2.435	3.7	2.083		
V 1	4123.512	-0.293	24.5	3.487						
V 1	4128.076	-0.104	55.4	4.046:	19.6	2.640	3.6	2.228	10.7	1.445
V 1	4276.952	0.410	25.1	4.289:	19.3	3.740:	4.6	3.338:		
V 1	4379.230	0.580	57.9	3.408	44.2	2.521	9.1	1.991	15.9	0.973
V 1	4392.065	-1.932	21.1	5.005:	24.1	4.555:	4.0	4.067:	5.7	2.938:
V 1	4406.633	-0.190	30.9	3.547	23.0	2.822	3.2	2.264		
V 1	4416.468	-0.810	13.3	3.627						
V 1	4426.002	-0.920	11.8	3.694						

Element	$\lambda, \text{\AA}$	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$		
			G27-44		HD188510		G37-26		HD115444	
V 1	4436.133	-0.900	9.1	3.516						
V 1	4437.834	-0.660	8.1	3.247						
V 1	4460.291	-0.150	42.4	3.762	17.8	2.629				
V 1	4514.179	-0.390	19.4	5.002:	10.4	4.285:				
V 1	4577.174	-1.048	7.1	3.281						
V 1	4594.124	-0.670	14.2	3.314	6.6	2.397				
V 1	4831.646	-1.380	3.6	3.296						
V 1	4875.493	-0.810	9.9	3.222	5.8	2.420				
V 1	4881.556	-0.660							7.1	1.495
V 2	3517.296	-0.208	86.8	3.905						
V 2	3545.194	-0.259	77.5	3.704	39.4	2.446	23.1	1.985	84.4	1.935:
V 2	3592.021	-0.263	73.0	3.563	48.6	2.664	22.4	1.953	62.8	1.269
V 2	3700.346	-0.403	28.6	3.638						
V 2	3951.960	-0.784	54.6	3.677	17.9	2.697	7.8	2.164	20.6	1.155
V 2	4002.936	-1.447	35.3	3.808	9.8	2.988			8.9	1.326
V 2	4023.378	-0.689	50.0	3.765	15.7	2.863	6.2	2.275	16.1	1.311
V 2	4065.071	-0.238	21.7	4.415:	9.4	4.142:				
V 2	4204.214	-2.450							6.0	2.449:
V 2	4205.084	-1.300	47.7	4.512:						
V 2	4220.050	-2.670	17.1	4.746:						
Cr 1	3601.636	-0.051	31.7	5.138						
Cr 1	3615.643	-3.050	48.7	6.027:	36.9	5.094:	6.0	4.481:		
Cr 1	3639.807	0.590	51.5	4.870	35.0	3.969	7.8	3.414		
Cr 1	3991.107	0.252	57.0	5.167	34.6	4.242	10.8	3.835	31.3	3.603:
Cr 1	4026.169	-0.500	21.6	5.020						
Cr 1	4039.083	0.390	12.6	5.006						
Cr 1	4111.367	-0.670	13.4	5.202	9.6	4.733:			10.6	4.292:
Cr 1	4120.615	-4.503	17.7	5.039:						
Cr 1	4126.520	-0.652	41.7	6.601						
Cr 1	4129.196	-1.374			18.6	5.789:			6.4	4.766:
Cr 1	4131.356	-2.285			12.6	7.466:				
Cr 1	4240.710	-1.284	16.9	6.040:						
Cr 1	4254.332	-0.114	160.8	4.802	172.2	3.616	79.9	3.557	94.0	2.443
Cr 1	4274.796	-0.231	151.0	4.846	163.5	3.679	78.1	3.640	94.1	2.555
Cr 1	4337.552	-1.112							14.3	2.616

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			G27-44		HD188510		G37-26		HD115444	
Cr 1	4344.496	-0.550							27.8	2.477
Cr 1	4351.054	-1.449			31.6	4.235	5.7	3.684		
Cr 1	4357.529	-1.240	13.5	6.217:	10.3	5.818:				
Cr 1	4373.257	-2.346	19.0	5.294						
Cr 1	4374.166	-0.488	60.4	6.342:	47.2	5.623:	12.8	5.072:		
Cr 1	4458.527	-0.757	24.9	5.770:					5.3	4.160:
Cr 1	4459.728	-0.650	21.7	5.571:	9.5	4.832:				
Cr 1	4475.347	-1.200	4.2	5.160						
Cr 1	4501.781	-1.040							7.1	4.465:
Cr 1	4511.908	-0.343	13.8	5.062	6.8	4.432				
Cr 1	4545.331	-1.280							7.3	2.503
Cr 1	4545.945	-1.370	47.1	4.943	31.8	4.105	4.7	3.472		
Cr 1	4580.043	-1.650	46.2	5.201	25.0	4.219	5.3	3.802	9.2	2.887:
Cr 1	4600.741	-1.260	51.2	4.988	35.8	4.149	5.4	3.485	9.6	2.592
Cr 1	4616.120	-1.190	53.1	4.941	40.7	4.159	7.0	3.518	9.4	2.488
Cr 1	4621.957	-0.966	12.9	5.150						
Cr 1	4622.453	-0.040	11.4	5.081						
Cr 1	4626.174	-1.320	45.4	4.882	34.4	4.137	5.3	3.499	8.9	2.572
Cr 1	4646.148	-0.700	65.5	4.807	56.3	4.018	14.9	3.457	22.5	2.502
Cr 1	4651.282	-1.460	41.7	4.939	27.7	4.138	4.0	3.519	6.3	2.563
Cr 1	4652.152	-1.030	60.7	4.985	47.6	4.153	9.7	3.538	13.9	2.544
Cr 1	4664.791	-0.478	19.0	5.407:						
Cr 1	4680.840	-0.810	8.8	5.299						
Cr 1	4697.042	-1.060	10.4	5.277						
Cr 1	4700.597	-1.255							8.0	4.484:
Cr 1	4708.018	0.110	22.1	4.932	10.8	4.250				
Cr 1	4718.426	0.090	28.4	5.136	11.9	4.343	3.3	3.992:		
Cr 1	4730.704	-0.192	14.7	4.926	6.0	4.199				
Cr 1	4737.380	-0.172	21.7	5.139						
Cr 1	4789.340	-0.366	27.2	4.969	11.6	4.143	1.6	3.508		
Cr 1	4801.047	-0.131	17.7	5.006	5.0	4.091				
Cr 1	4829.372	-0.787	22.0	5.257	14.2	4.685:				
Cr 1	4870.801	0.050			13.6	4.347				
Cr 1	4922.280	0.270	39.0	5.134	16.8	4.261	3.4	3.737	3.5	3.026:
Cr 1	4936.335	-0.340	13.6	5.055	7.4	4.471:				
Cr 2	3715.172	-1.843	50.8	5.473	18.4	4.710:	7.1	4.030	15.0	3.209

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$		
			G27-44		HD188510		G37-26		HD115444	
Cr 2	4269.277	-2.020	19.4	5.435						
Cr 2	4554.988	-1.282	36.2	5.341	5.0	4.381	1.7	3.662		
Cr 2	4558.650	-0.449	64.7	5.237	21.5	4.323	11.2	3.729	16.0	2.916
Cr 2	4588.199	-0.627	54.5	5.145	14.2	4.255	6.4	3.623	9.0	2.797
Cr 2	4592.049	-1.221	29.8	5.120	5.5	4.368	3.0	3.863		
Cr 2	4616.629	-1.361	26.8	5.177					3.6	3.103
Cr 2	4634.070	-0.990	40.0	5.143	7.1	4.257	4.4	3.803		
Cr 2	4812.337	-1.960	17.8	5.313	5.1	4.852:				
Cr 2	4824.127	-0.970	55.8	5.308	15.1	4.415	6.7	3.784	9.7	2.933
Cr 2	4884.607	-2.100	15.3	5.360						
Mn 1	3595.107	-0.860	34.6	4.887						
Mn 1	3607.526	-0.440	42.3	4.651						
Mn 1	3806.711	0.190	122.3	5.599:	93.1	4.265:	47.9	4.000:	38.9	2.610:
Mn 1	3823.507	0.058	67.6	4.718	46.6	3.662	10.3	2.998		
Mn 1	4030.753	-0.470	182.9	4.807	154.6	3.322	78.1	3.354	98.2	2.290
Mn 1	4033.062	-0.618	165.9	4.846	135.3	3.350	65.5	3.225	87.0	2.103
Mn 1	4034.483	-0.811	141.3	4.842	128.2	3.464	56.7	3.190	80.8	2.108
Mn 1	4041.355	0.285	124.4	5.460:	78.3	3.939:	18.2	3.048	19.2	2.017
Mn 1	4048.743	-0.130	84.8	5.274:	38.4	3.667	7.3	3.014	19.4	2.490:
Mn 1	4055.544	-0.070	75.0	4.974	41.8	3.659	7.8	2.966		
Mn 1	4058.930	-0.446	63.6	5.081:	24.2	3.670			4.8	2.133
Mn 1	4061.730	-0.560	14.6	4.702						
Mn 1	4070.278	-0.950	28.3	4.683						
Mn 1	4082.939	-0.354	50.3	4.630	23.0	3.535	4.6	3.029		
Mn 1	4131.102	0.104	8.4	4.815						
Mn 1	4257.669	-0.700	37.0	5.342:						
Mn 1	4265.923	-0.270	23.0	4.550	6.9	3.577				
Mn 1	4436.357	-0.288	27.5	4.652						
Mn 1	4451.586	0.278	50.4	4.550	18.5	3.457	4.5	3.037	16.9	2.817:
Mn 1	4453.012	-0.490	21.7	4.714						
Mn 1	4455.310	-0.246	47.8	5.251:	23.5	4.332:	6.1	3.886:	9.1	3.246:
Mn 1	4457.044	-0.555	18.4	4.810						
Mn 1	4470.144	-0.444	19.2	4.589	5.3	3.613				
Mn 1	4498.902	-0.343	21.6	4.550						
Mn 1	4502.213	-0.345	20.5	4.503	7.6	3.653				
Mn 1	4626.530	0.210	4.6	4.832						

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$		
			G27-44		HD188510		G37-26		HD115444	
Mn 1	4709.712	-0.340	21.2	4.483	8.1	3.638			6.4	2.940:
Mn 1	4739.087	-0.490	15.9	4.516						
Mn 1	4754.042	-0.086	71.8	4.885	36.8	3.622	7.4	3.042	9.8	2.177
Mn 1	4761.512	-0.138	24.7	4.438	5.6	3.327:				
Mn 1	4762.367	0.425	67.4	4.844	24.3	3.445	6.5	3.040	3.5	1.887
Mn 1	4765.846	-0.080	33.7	4.588	12.0	3.622	2.0	3.060		
Mn 1	4766.418	0.100	46.2	4.680	16.7	3.593	3.0	3.044		
Mn 1	4783.427	0.042	76.4	4.867	41.2	3.592	7.7	2.944	6.6	1.876
Mn 1	4823.524	0.144	76.7	4.785	42.7	3.537	9.3	2.956	10.1	1.999
Fe 1	3522.268	-0.987	68.3	6.788	60.7	5.830				
Fe 1	3540.121	-0.795	70.9	6.718	64.4	5.755				
Fe 1	3543.674	-0.770	60.8	7.091	40.6	6.029	10.3	5.449		
Fe 1	3546.204	-2.540	22.2	6.822						
Fe 1	3547.194	-0.917					9.8	5.467		
Fe 1	3559.503	-0.970	68.0	7.187					18.8	4.684
Fe 1	3564.110	-2.890	42.2	6.903	27.1	5.968	5.7	5.537	14.2	4.728
Fe 1	3567.369	-2.092			20.5	5.889				
Fe 1	3573.393	-0.852	65.1	7.226	43.6	6.109	12.0	5.504		
Fe 1	3575.979	-0.854	75.8	7.093	57.3	5.974				
Fe 1	3591.001	-1.800	32.9	7.070	15.3	6.153				
Fe 1	3595.301	-1.099	67.8	6.924	47.9	5.796	10.8	5.272		
Fe 1	3597.053	-0.853			43.3	6.019	11.2	5.416		
Fe 1	3623.186	-0.767	79.2	6.656	71.1	5.630	37.8	5.399		
Fe 1	3623.446	-1.604	54.6	6.958	39.7	6.032	8.6	5.364		
Fe 1	3624.307	-1.998					6.6	5.504		
Fe 1	3625.141	-0.840	73.3	6.983	57.3	5.922	23.3	5.454	23.4	4.404
Fe 1	3628.091	-2.245			33.3	6.126	6.4	5.512		
Fe 1	3640.388	-0.107	98.7	6.646	89.0	5.514	50.9	5.433	63.8	4.574
Fe 1	3650.279	-0.869	89.2	6.940	78.3	5.956				
Fe 1	3657.132	-1.913	56.9	7.035	36.9	6.045	5.6	5.280		
Fe 1	3658.546	-2.500	23.3	6.830						
Fe 1	3659.516	-0.943	87.8	6.915	66.5	5.726	28.4	5.273	44.3	4.509
Fe 1	3667.253	-0.710	80.0	6.911	52.7	5.773	17.4	5.395		
Fe 1	3672.707	-2.111	40.5	6.804	22.0	5.921				
Fe 1	3676.311	-0.986	76.5	6.803	66.2	5.884	30.6	5.487		
Fe 1	3684.107	-0.374	100.6	6.864	88.9	5.803	45.3	5.454	55.5	4.525

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			G27-44	$\lg \varepsilon(X)$	HD188510	$\lg \varepsilon(X)$	G37-26	$\lg \varepsilon(X)$	HD115444	$\lg \varepsilon(X)$
Fe 1	3690.726	-0.173	66.4	6.605	52.6	5.777	18.9	5.271		
Fe 1	3701.086	0.070							60.1	4.489
Fe 1	3702.029	-1.140	66.4	6.922						
Fe 1	3702.492	-2.226			32.7	6.059				
Fe 1	3707.041	-0.467	90.9	6.969			35.8	5.529	40.8	4.594
Fe 1	3715.911	-1.569	70.0	6.945	55.8	6.015	20.8	5.508	23.1	4.432
Fe 1	3716.442	-0.296	105.6	6.984	92.5	5.972	42.6	5.494	54.4	4.669
Fe 1	3725.490	-1.540	40.8	6.798	26.2	6.073				
Fe 1	3727.619	-0.631					116.3	5.307		
Fe 1	3742.616	-0.894	94.4	7.096	76.9	6.014	25.5	5.550	33.9	4.777
Fe 1	3756.068	-2.119	47.8	6.739	36.1	6.013	6.6	5.325		
Fe 1	3760.049	-0.847	85.8	6.830	73.5	5.807	40.6	5.497	54.2	4.587
Fe 1	3760.531	-1.234	76.6	6.700	70.4	5.838	28.2	5.326	39.2	4.400
Fe 1	3767.191	-0.389	277.2	6.423					139.9	4.545
Fe 1	3773.691	-1.327			32.1	5.880				
Fe 1	3774.824	-1.447	80.0	7.043	64.1	6.016	21.3	5.345	34.6	4.516
Fe 1	3777.066	-1.850	40.1	7.006	18.2	6.074				
Fe 1	3787.163	-0.960			25.1	6.018	4.9	5.404		
Fe 1	3787.880	-0.859	193.7	6.536	224.6	5.415	99.6	5.394	122.5	4.730
Fe 1	3791.742	-1.390	34.7	6.764	12.9	5.824	4.0	5.527		
Fe 1	3792.154	-1.427	62.4	7.002	40.4	5.984	11.6	5.445		
Fe 1	3795.002	-0.761			238.2	5.347			125.6	4.669
Fe 1	3804.009	-1.040	52.7	6.743	30.5	5.847	7.2	5.370		
Fe 1	3805.342	0.312	101.9	6.616	89.0	5.607	50.2	5.408	52.4	4.416
Fe 1	3815.840	0.237					158.5	5.189	154.0	4.576
Fe 1	3820.425	0.119					204.0	5.037	207.8	4.387
Fe 1	3825.881	-0.037					175.6	5.107	183.1	4.460
Fe 1	3840.437	-0.506							137.1	4.549
Fe 1	3865.523	-0.982	187.7	6.588	206.8	5.444	97.7	5.470	119.9	4.732
Fe 1	3886.282	-1.076							161.9	4.514
Fe 1	3887.048	-1.144							115.1	4.679
Fe 1	3899.707	-1.531	191.7	6.430	267.7	5.372	106.2	5.323		
Fe 1	3916.731	-0.584	70.8	6.792	52.0	5.837	21.3	5.425	18.5	4.405
Fe 1	3917.181	-2.155	102.1	6.897	93.7	5.773	49.4	5.608		
Fe 1	3920.258	-1.746	161.3	6.458	209.3	5.391	96.2	5.442	130.2	4.794
Fe 1	3949.953	-1.251	83.5	6.830	72.6	5.878	36.9	5.529	48.7	4.542
Fe 1	3951.163	-0.299	86.0	6.863	60.4	5.726	27.2	5.346	29.9	4.465

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			G27-44	lg $\varepsilon(X)$	HD188510	lg $\varepsilon(X)$	G37-26	lg $\varepsilon(X)$	HD115444	lg $\varepsilon(X)$
Fe 1	3953.857	-2.030	32.1	6.820	14.5	5.958				
Fe 1	3955.955	-1.530	49.6	6.986	27.3	6.072	6.8	5.585		
Fe 1	3957.018	-0.562	89.0	6.845	72.0	5.860	27.2	5.536	34.0	4.803
Fe 1	4001.661	-1.901	65.9	6.993	47.5	6.018	12.7	5.416		
Fe 1	4007.272	-1.276	66.7	6.927	46.6	5.952	12.8	5.357	17.6	4.514
Fe 1	4010.176	-1.790	14.2	6.798						
Fe 1	4011.407	-2.418	31.1	6.920	12.3	5.971				
Fe 1	4011.711	-2.690	22.2	6.830	10.7	6.035				
Fe 1	4016.419	-1.600	39.3	6.932	18.4	6.063				
Fe 1	4021.866	-0.729	90.0	6.936	71.7	5.867	34.4	5.483	43.4	4.581
Fe 1	4022.213	-2.557	20.6	7.034						
Fe 1	4040.638	-1.120	63.3	7.168	38.4	6.143	9.2	5.540		
Fe 1	4049.327	-2.440	32.5	6.999	13.7	6.078				
Fe 1	4051.905	-1.430			26.3	6.187				
Fe 1	4059.713	-1.373	41.3	7.040	18.0	6.125				
Fe 1	4062.440	-0.862	80.8	6.878	64.4	5.896	26.1	5.453	27.8	4.465
Fe 1	4063.594	0.062					130.8	5.192	138.0	4.607
Fe 1	4065.381	-1.320	38.7	6.775	17.7	5.905				
Fe 1	4067.271	-1.419	71.7	6.985	54.4	6.021	18.1	5.499	27.2	4.674
Fe 1	4070.770	-0.790	76.8	6.888	51.5	5.822	16.3	5.433		
Fe 1	4072.502	-1.439					3.1	5.456		
Fe 1	4073.762	-0.902	74.0	6.960	41.7	5.809	14.4	5.498	13.4	4.574
Fe 1	4079.838	-1.360	64.1	6.981	42.6	5.997	11.5	5.465	14.1	4.587
Fe 1	4080.209	-1.220	61.8	7.055	32.4	5.986	6.7	5.454		
Fe 1	4080.876	-1.800	28.3	6.881	11.7	6.041				
Fe 1	4082.107	-1.540	33.3	6.865	17.3	6.101				
Fe 1	4082.424	-1.550	33.1	7.091						
Fe 1	4085.004	-1.280	69.3	7.066	48.1	6.059	15.4	5.537	14.2	4.493
Fe 1	4085.303	-0.806	88.6	7.098	66.5	6.035	19.4	5.550	24.6	4.792
Fe 1	4085.984	-1.200	22.7	6.933						
Fe 1	4087.093	-1.400	45.5	6.904	23.7	6.035	5.4	5.573		
Fe 1	4088.556	-1.530	25.3	6.873	11.8	6.144				
Fe 1	4089.216	-2.022	30.2	6.857	15.2	6.074				
Fe 1	4090.953	-1.760	28.1	6.901	12.0	6.086				
Fe 1	4091.553	-2.068	26.2	6.690	12.9	5.913	3.9	5.620		
Fe 1	4098.175	-0.879			52.3	5.924			16.1	4.618
Fe 1	4107.488	-0.879	85.9	6.972	70.3	5.991			35.0	4.624

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			G27-44	$\lg \varepsilon(X)$	HD188510	$\lg \varepsilon(X)$	G37-26	$\lg \varepsilon(X)$	HD115444	$\lg \varepsilon(X)$
Fe 1	4109.801	-0.895	78.7	6.863	64.7	5.940	23.5	5.415	25.5	4.444
Fe 1	4112.318	-1.750	28.1	6.917	12.8	6.131				
Fe 1	4112.958	-0.330	61.4	6.991	28.6	5.934	6.2	5.362		
Fe 1	4114.445	-1.303	65.5	6.918	46.0	5.974	12.9	5.438	11.8	4.398
Fe 1	4116.970	-2.610	10.4	7.069						
Fe 1	4118.545	0.215	98.3	6.830	79.1	5.781	40.9	5.472	43.9	4.600
Fe 1	4120.206	-1.267	62.3	6.950	46.0	6.093	10.8	5.464	15.5	4.694
Fe 1	4121.802	-1.450	62.4	7.024	43.2	6.105	12.2	5.565		
Fe 1	4124.487	-2.240	7.2	6.895						
Fe 1	4125.620	-0.612	40.5	6.866	17.0	5.997	4.1	5.493		
Fe 1	4125.880	-2.215	33.5	7.033	16.3	6.199				
Fe 1	4126.182	-0.960	65.6	6.891	37.9	5.866	10.6	5.456	9.2	4.518
Fe 1	4126.854	-2.540	13.4	6.773						
Fe 1	4127.607	-0.936	89.7	7.143	63.1	5.964	22.5	5.436	24.1	4.462
Fe 1	4129.461	-1.970	21.7	6.969						
Fe 1	4132.058	-0.675	197.7	6.789	193.5	5.570	90.0	5.518	101.7	4.643
Fe 1	4132.899	-1.006	76.4	6.905	61.2	5.987	23.5	5.522	27.2	4.597
Fe 1	4134.677	-0.649	95.8	6.929	76.6	5.845	38.1	5.541	42.4	4.550
Fe 1	4136.521	-1.516	35.9	6.843	19.8	6.093	3.8	5.560		
Fe 1	4136.997	-0.453	74.3	6.830	52.1	5.832	17.9	5.331		
Fe 1	4137.420	-0.960	23.9	6.858					17.6	4.435
Fe 1	4139.927	-3.629	42.1	6.884	32.5	6.127	5.3	5.543	11.2	4.532
Fe 1	4143.868	-0.511	186.4	6.515			95.8	5.393	111.9	4.660
Fe 1	4145.199	-2.800	16.0	6.981						
Fe 1	4147.669	-2.104	84.0	6.887	72.3	5.858			55.7	4.695
Fe 1	4153.899	-0.321	102.9	6.909	73.3	5.750	28.4	5.434	22.5	4.422
Fe 1	4154.498	-0.688	97.7	7.075	74.9	5.956	33.6	5.479	34.0	4.410
Fe 1	4154.805	-0.400	88.7	6.770	70.6	5.774	25.5	5.419	22.3	4.464
Fe 1	4156.798	-0.809			74.7	5.977	33.3	5.573	37.0	4.598
Fe 1	4158.792	-0.670	64.6	6.651	46.0	5.783	12.9	5.355	12.0	4.466
Fe 1	4160.552	-2.880	8.0	6.938						
Fe 1	4168.614	-1.940	21.9	6.918	10.5	6.198				
Fe 1	4168.941	-1.650	28.2	6.830	14.5	6.110				
Fe 1	4175.636	-0.827	80.9	6.830	64.8	5.856	30.7	5.536	35.8	4.605
Fe 1	4182.382	-1.180	66.9	7.034	42.5	6.012	12.0	5.455		
Fe 1	4182.757	-1.660	32.1	6.936	17.9	6.224				
Fe 1	4184.891	-0.869	79.0	6.856	67.5	6.001	25.9	5.442	29.7	4.491

Element	λ , Å	$\lg gf$	G27-44		HD188510		G37-26		HD115444	
			E.W.	$\lg \varepsilon(X)$	E.W.	$\lg \varepsilon(X)$	E.W.	$\lg \varepsilon(X)$	E.W.	$\lg \varepsilon(X)$
Fe 1	4187.039	-0.548	127.3	6.569	122.1	5.495	62.2	5.464	68.3	4.567
Fe 1	4189.556	-1.330	29.9	6.830	13.6	6.065				
Fe 1	4191.430	-0.666	120.0	6.646	106.8	5.514	51.8	5.396	62.7	4.577
Fe 1	4195.329	-0.492					28.0	5.601		
Fe 1	4196.208	-0.696	70.2	6.774	49.8	5.838	16.9	5.497	13.0	4.495
Fe 1	4199.095	0.155	118.3	6.671	105.9	5.630	59.5	5.503	64.0	4.483
Fe 1	4202.029	-0.708	164.2	6.493	177.7	5.397	89.9	5.427	112.8	4.781
Fe 1	4202.753	-2.220	26.6	7.047						
Fe 1	4203.984	-1.010					25.5	5.589	28.9	4.626
Fe 1	4207.127	-1.460	54.7	6.802	36.2	5.953	8.5	5.375	10.4	4.487
Fe 1	4210.343	-0.928	115.1	6.859	104.7	5.762	45.4	5.539	51.4	4.595
Fe 1	4216.183	-3.356	95.4	7.041	89.0	5.927				
Fe 1	4217.545	-0.484	83.0	6.806	59.8	5.776	19.1	5.376	21.7	4.598
Fe 1	4219.360	0.000	105.0	7.105	76.6	5.942	35.8	5.537	34.7	4.599
Fe 1	4220.341	-1.311	56.9	6.911	33.4	5.953	8.3	5.439	12.1	4.690
Fe 1	4222.213	-0.967	99.5	6.672	90.2	5.630	40.7	5.453	52.6	4.614
Fe 1	4224.171	-0.506	87.8	6.864	60.0	5.757	21.3	5.413	22.5	4.578
Fe 1	4224.512	-1.040	63.0	6.992	30.6	5.903	6.9	5.410		
Fe 1	4228.718	-2.540	9.3	7.052						
Fe 1	4232.726	-4.928	26.9	6.955	18.9	6.151				
Fe 1	4233.602	-0.604	120.5	6.584	118.8	5.545	57.4	5.439	64.1	4.535
Fe 1	4238.810	-0.233	99.4	6.779	78.4	5.717	31.5	5.413	27.3	4.445
Fe 1	4239.361	-1.520	20.5	6.701						
Fe 1	4241.114	-2.510	14.4	6.758						
Fe 1	4243.816	-1.500	22.0	6.944						
Fe 1	4250.119	-0.405	146.1	6.608	136.6	5.474	69.3	5.455	73.9	4.571
Fe 1	4250.786	-0.714	175.5	6.628	165.7	5.392	87.8	5.456	106.8	4.707
Fe 1	4266.964	-1.812	54.5	7.031	38.8	6.242	8.2	5.604		
Fe 1	4268.748	-1.568	41.4	6.990	19.0	6.092				
Fe 1	4271.153	-0.349	170.1	6.708	173.1	5.617	75.2	5.470	83.5	4.719
Fe 1	4271.760	-0.164	257.0	6.419			121.7	5.245	138.1	4.681
Fe 1	4276.676	-1.210	32.8	6.914						
Fe 1	4282.402	-0.779	107.7	6.746	98.3	5.703	58.6	5.623	76.8	4.708
Fe 1	4291.463	-4.080	66.1	7.067	56.9	6.174	14.5	5.573		
Fe 1	4294.124	-1.110	164.6	6.878	159.7	5.687				
Fe 1	4337.046	-1.695							72.4	4.731
Fe 1	4348.936	-2.143	22.4	6.786	7.7	5.866				

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			G27-44	$\lg \varepsilon(X)$	HD188510	$\lg \varepsilon(X)$	G37-26	$\lg \varepsilon(X)$	HD115444	$\lg \varepsilon(X)$
Fe 1	4360.803	-1.870	17.2	6.956						
Fe 1	4365.896	-2.250	23.7	6.923	8.9	6.045				
Fe 1	4373.560	-1.827	37.9	6.894	16.2	5.974				
Fe 1	4375.930	-3.031	108.2	6.907	111.1	5.817				
Fe 1	4376.774	-2.336	22.7	7.014						
Fe 1	4377.791	-2.310	11.9	6.858						
Fe 1	4383.545	0.200					154.0	5.130	154.2	4.508
Fe 1	4387.891	-1.523	44.9	6.798	26.7	5.997	5.3	5.420		
Fe 1	4388.406	-0.682	64.2	6.786	43.5	5.906	11.8	5.466	8.3	4.481
Fe 1	4389.244	-4.583	36.1	6.752	34.0	6.114	4.3	5.452	23.4	4.717
Fe 1	4404.750	-0.142					124.6	5.292	132.6	4.616
Fe 1	4415.122	-0.615	175.7	6.527			95.9	5.483	112.0	4.722
Fe 1	4422.568	-1.115	80.2	7.089	57.3	6.039	18.7	5.456	31.2	4.757
Fe 1	4423.840	-1.610	22.8	6.857	7.9	6.001				
Fe 1	4427.309	-2.924	109.9	6.910	109.5	5.802				
Fe 1	4432.567	-1.600	23.5	6.812						
Fe 1	4433.218	-0.700	62.3	6.791	38.5	5.893	9.6	5.427	8.8	4.586
Fe 1	4433.782	-1.267	43.6	6.936	21.0	6.085				
Fe 1	4436.920	-2.126	31.8	7.065	14.9	6.245				
Fe 1	4438.343	-1.630	22.6	6.902						
Fe 1	4439.880	-3.002	17.5	6.817						
Fe 1	4442.339	-1.255	108.0	6.914	95.9	5.870	40.8	5.525	53.7	4.592
Fe 1	4447.717	-1.342	100.9	6.921	82.9	5.831	35.9	5.522	47.4	4.576
Fe 1	4454.381	-1.299	71.7	7.051	49.7	6.049	14.6	5.484	20.1	4.658
Fe 1	4456.325	-2.171	31.4	7.093	9.2	6.039				
Fe 1	4461.652	-3.210	96.1	6.909	95.4	5.891				
Fe 1	4466.551	-0.600	95.8	6.886	84.1	5.935	40.3	5.534	55.6	4.737
Fe 1	4466.938	-1.350	19.9	6.769	6.2	5.903				
Fe 1	4469.375	-0.477	79.9	6.903	53.1	5.878	16.4	5.483		
Fe 1	4481.609	-1.420	26.0	6.784	9.6	5.936				
Fe 1	4484.219	-0.864	64.4	6.984	38.8	6.023	11.0	5.608	9.6	4.730
Fe 1	4485.675	-1.020	44.1	6.768	19.0	5.857	4.2	5.387		
Fe 1	4494.563	-1.136	103.9	6.745	93.7	5.733	45.2	5.513	59.5	4.596
Fe 1	4502.590	-2.350	9.1	7.028						
Fe 1	4504.830	-2.270	13.6	6.861						
Fe 1	4517.524	-1.858	34.2	6.866	15.7	6.023				
Fe 1	4523.398	-1.990	9.2	6.744						

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			G27-44	$\lg \varepsilon(X)$	HD188510	$\lg \varepsilon(X)$	G37-26	$\lg \varepsilon(X)$	HD115444	$\lg \varepsilon(X)$
Fe 1	4528.614	-0.822	149.2	6.887	125.1	5.686	61.9	5.547	80.3	4.718
Fe 1	4531.625	-2.175	24.4	7.057	10.1	6.236				
Fe 1	4542.412	-2.050	14.6	7.032						
Fe 1	4547.847	-1.012	55.7	6.974	30.0	6.029	8.8	5.601	8.6	4.753
Fe 1	4556.125	-0.787	65.6	7.087	39.0	6.090	10.7	5.535		
Fe 1	4556.925	-2.710	5.4	6.830						
Fe 1	4566.514	-2.376	15.6	7.081						
Fe 1	4574.216	-2.500	9.7	6.864						
Fe 1	4574.717	-2.970	23.6	6.947	11.9	6.153				
Fe 1	4587.127	-1.737	23.4	6.937	5.9	5.922				
Fe 1	4593.525	-2.060	6.9	6.933						
Fe 1	4595.358	-1.758	33.9	6.967	16.8	6.181				
Fe 1	4598.117	-1.570	42.2	6.893	19.5	6.001				
Fe 1	4602.001	-3.154	39.9	6.882	24.7	6.047			9.9	4.685
Fe 1	4602.941	-2.209	81.6	6.877	73.0	6.003	28.7	5.514	56.7	4.740
Fe 1	4607.647	-1.545	50.6	7.113	26.0	6.180				
Fe 1	4619.288	-1.120	52.3	6.969	25.2	6.021			5.4	4.708
Fe 1	4625.045	-1.340	52.7	6.830	29.7	5.951	6.6	5.487	8.8	4.734
Fe 1	4630.120	-2.587	37.4	6.891	22.2	6.100			4.5	4.545
Fe 1	4635.846	-2.358	22.2	6.830	11.1	6.096				
Fe 1	4637.503	-1.390	51.4	6.908	26.1	5.971	5.6	5.498	6.7	4.707
Fe 1	4638.009	-1.119	51.8	6.954	26.4	6.046	5.4	5.516		
Fe 1	4643.463	-1.147	41.1	6.812	17.7	5.916	4.4	5.500		
Fe 1	4647.434	-1.351	61.2	6.886	40.6	5.979	10.9	5.473	13.6	4.619
Fe 1	4661.970	-2.502	13.8	6.838	5.9	6.076				
Fe 1	4669.171	-1.211	39.1	6.830	15.3	5.901	3.5	5.454		
Fe 1	4678.845	-0.833	65.3	6.948	44.6	6.075	12.6	5.637	10.8	4.741
Fe 1	4679.220	-2.140	16.7	6.921						
Fe 1	4683.559	-2.319	19.0	6.687	8.5	5.908				
Fe 1	4690.138	-1.645	22.2	6.893	9.4	6.136				
Fe 1	4691.411	-1.523	64.4	7.180	41.0	6.192	8.4	5.551	11.2	4.736
Fe 1	4704.948	-1.570	29.3	6.993	12.5	6.195				
Fe 1	4728.545	-1.172	42.9	6.911	19.2	6.024	3.8	5.455		
Fe 1	4729.019	-1.614	10.7	6.823						
Fe 1	4733.591	-2.988	52.1	6.892	37.1	6.053	7.9	5.531	20.9	4.748
Fe 1	4736.773	-0.752	87.2	6.855	67.4	5.853	22.8	5.503	23.7	4.623
Fe 1	4741.529	-1.765							5.0	4.406

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			G27-44	$\lg \varepsilon(X)$	HD188510	$\lg \varepsilon(X)$	G37-26	$\lg \varepsilon(X)$	HD115444	$\lg \varepsilon(X)$
Fe 1	4745.800	-1.270	40.7	6.962	16.8	6.048				
Fe 1	4772.803	-2.897	50.6	6.830						
Fe 1	4779.439	-2.020	14.2	6.767						
Fe 1	4785.956	-1.930	7.1	6.997						
Fe 1	4786.807	-1.606	48.3	6.891	29.8	6.095	5.4	5.449		
Fe 1	4787.826	-2.530	11.7	6.776						
Fe 1	4788.756	-1.763	32.7	6.865	14.6	6.031				
Fe 1	4789.650	-0.958	53.7	6.874	30.9	6.013	7.4	5.453	6.5	4.557
Fe 1	4800.649	-1.029	25.7	6.810	7.2	5.868				
Fe 1	4802.879	-1.514	28.2	6.885	11.4	6.072				
Fe 1	4834.506	-3.410	9.1	6.987						
Fe 1	4835.867	-1.500	20.7	7.077	5.5	6.151				
Fe 1	4839.544	-1.822	26.3	6.796						
Fe 1	4875.877	-2.020	23.2	6.946	9.8	6.151				
Fe 1	4885.430	-1.091	39.7	6.950	15.2	6.023				
Fe 1	4890.755	-0.394	119.0	6.590	108.6	5.556	48.6	5.365	55.9	4.520
Fe 1	4891.492	-0.112	140.5	6.494	142.7	5.495	64.9	5.359	68.6	4.475
Fe 1	4892.858	-1.290	18.7	6.907	6.1	6.097				
Fe 1	4903.310	-0.926	88.4	6.747	74.9	5.780	25.3	5.424	29.2	4.532
Fe 1	4905.132	-2.050	9.0	7.021						
Fe 1	4909.384	-1.273	26.1	6.851	10.4	6.060				
Fe 1	4917.230	-1.180	27.1	6.996	10.2	6.200				
Fe 1	4918.012	-1.360	20.4	7.038	6.0	6.172				
Fe 1	4924.769	-2.241	58.1	6.990	36.4	6.041	6.4	5.431	13.5	4.693
Fe 1	4927.418	-2.073	14.9	6.978						
Fe 1	4930.315	-1.201	32.4	6.935	9.1	5.939				
Fe 1	4938.813	-1.077	75.5	6.673	63.0	5.785	17.7	5.354	22.6	4.514
Fe 1	4939.686	-3.340	61.5	6.830	56.9	6.106	13.7	5.530	40.5	4.756
Fe 1	4946.388	-1.170	58.2	6.872	34.5	5.972	8.5	5.540	8.5	4.677
Fe 1	4950.106	-1.670	31.4	6.874	15.3	6.096				
Fe 1	4961.914	-2.290	6.6	6.841						
Fe 1	4962.571	-1.182	21.6	6.869	8.1	6.099				
Fe 1	4967.890	-0.622	42.8	6.830	20.9	6.052	4.2	5.450		
Fe 1	4969.917	-0.710	37.7	6.787	17.7	6.019	3.2	5.431		
Fe 1	4973.101	-0.950	47.1	6.995					3.4	4.717
Fe 1	4977.647	-2.153	7.3	7.022						
Fe 1	4978.603	-0.877	50.8	7.024	18.4	5.978	2.9	5.338	2.9	4.601

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$		
			G27-44		HD188510		G37-26		HD115444	
Fe 1	4982.524	0.144	77.5	6.810	53.5	5.903	18.2	5.357	12.5	4.408
Fe 1	4983.267	-0.158	62.3	6.811	40.5	6.006	9.8	5.362	7.3	4.505
Fe 1	4983.865	-0.068	72.2	6.882	47.5	6.000	13.3	5.385	10.1	4.510
Fe 1	4985.252	-0.560	61.0	6.970	34.5	6.027	9.7	5.544	8.0	4.688
Fe 1	4985.547	-1.332	67.6	6.764	45.7	5.802	10.6	5.323	15.8	4.557
Fe 1	4986.222	-1.390	15.9	6.914						
Fe 1	4994.129	-3.080	73.2	6.905	64.3	6.031	19.7	5.530	50.9	4.756
Fe 2	4002.083	-3.472	19.4	6.664						
Fe 2	4178.862	-2.500	72.8	6.917	33.7	6.008	20.6	5.484	37.7	4.590
Fe 2	4233.172	-1.900	109.6	7.000	63.4	6.055	44.7	5.552	72.2	4.737
Fe 2	4416.830	-2.410	69.3	6.860	26.8	5.919	12.2	5.254	26.6	4.454
Fe 2	4491.405	-2.700	57.5	6.931	17.1	5.998	9.4	5.477	14.6	4.488
Fe 2	4508.288	-2.250	72.8	6.830	29.3	5.894	17.0	5.350	31.6	4.493
Fe 2	4515.339	-2.450	79.3	7.203	24.7	5.963	13.6	5.411	28.5	4.610
Fe 2	4520.224	-2.600	67.5	7.036	25.5	6.099	12.7	5.487	29.5	4.737
Fe 2	4541.524	-2.790	49.5	6.803	14.6	5.995	6.5	5.380	13.5	4.534
Fe 2	4555.893	-2.160	75.4	6.797	31.5	5.826	17.0	5.230	33.7	4.412
Fe 2	4576.340	-2.920	48.3	6.891	11.3	5.973	5.6	5.425	13.8	4.662
Fe 2	4582.835	-3.090	41.4	6.885	8.5	5.998	5.1	5.552	8.5	4.591
Fe 2	4583.837	-1.860	99.8	6.940	55.4	6.024	38.3	5.516	61.2	4.637
Fe 2	4620.521	-3.240	34.7	6.857	6.6	6.010	3.4	5.496	7.8	4.679
Fe 2	4731.453	-3.000	49.5	7.019	13.1	6.171	6.2	5.591	8.3	4.536
Fe 2	4833.197	-4.780	3.7	6.980						
Fe 2	4923.927	-1.320	119.1	6.708	71.9	5.810	59.2	5.569	81.5	4.603
Fe 2	4993.358	-3.640	20.5	6.840					4.3	4.753
Co 1	3550.585	-1.520	52.7	4.384	51.6	3.676	13.6	3.070	73.9	3.142:
Co 1	3594.864	-0.970	81.8	4.722	80.7	3.659	33.9	3.186	59.3	2.104
Co 1	3596.505	-0.707	23.2	4.728						
Co 1	3652.537	-1.860	38.7	4.204	33.8	3.520	8.6	3.121	32.4	2.297
Co 1	3676.549	0.122	26.4	4.460						
Co 1	3683.044	-0.217	111.2	6.199:	119.4	5.288:	69.8	5.278:		
Co 1	4020.898	-2.070	32.8	4.446	21.4	3.608	4.9	3.267	26.4	2.626
Co 1	4058.183	-2.520	68.5	5.935:	42.4	4.662:	10.2	4.153:	14.0	2.814:
Co 1	4068.539	-1.251	10.4	4.373						
Co 1	4086.298	-0.879	30.0	4.565	12.5	3.617				

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$		
			G27-44		HD188510		G37-26		HD115444	
Co 1	4110.530	-1.080	45.1	4.342	27.5	3.411	4.3	2.808:	23.4	2.289
Co 1	4121.311	-0.320	86.2	4.556	77.6	3.521	31.9	3.069	70.7	2.471
Co 1	4190.703	-3.036	16.4	4.522	10.0	3.683			8.1	2.426
Co 1	4779.987	-0.219	49.7	5.630:	15.6	4.444:	8.0	4.351:	22.5	3.980:
Co 1	4792.846	-0.067	7.6	4.198						
Co 1	4813.467	0.050	13.2	4.323						
Co 1	4867.872	0.226							2.1	2.188:
Ni 1	3577.229	-3.820	17.4	5.541						
Ni 1	3661.941	-3.795	44.4	6.139:	34.1	5.356:	7.2	4.809:	30.4	4.067:
Ni 1	3728.916	-0.764	29.0	6.095:						
Ni 1	3772.525	-4.200			30.5	5.651:			19.0	4.173:
Ni 1	3775.565	-1.393	105.8	5.430	96.0	4.231	61.3	4.342	90.3	3.504
Ni 1	3792.330	-3.240	45.0	5.631	27.5	4.672	6.3	4.240		
Ni 1	3954.526	-0.390	18.3	5.209:						
Ni 1	4019.058	-3.174	17.7	6.376:						
Ni 1	4025.419	-1.214	19.9	6.112:						
Ni 1	4027.667	-0.640	16.9	5.629						
Ni 1	4093.031	-1.022	6.6	5.823:						
Ni 1	4188.975	-2.802					11.8	7.374:		
Ni 1	4231.027	-1.415	58.5	7.166:	60.0	6.770:	17.1	6.052:	24.0	5.400:
Ni 1	4331.640	-2.100	36.3	5.516	18.9	4.666			7.1	3.249
Ni 1	4410.512	-1.080	21.7	5.626	7.5	4.808	2.2	4.455:		
Ni 1	4437.563	-1.240	8.9	5.665						
Ni 1	4462.449	-0.550	37.9	5.643	15.5	4.787	4.3	4.380:		
Ni 1	4470.472	-0.310	46.7	5.532	19.9	4.603	4.8	4.127		
Ni 1	4480.561	-1.491	12.2	6.276:						
Ni 1	4519.979	-2.880	10.9	5.526						
Ni 1	4547.218	-1.202	12.1	5.736						
Ni 1	4551.217	-0.880	11.1	5.855:						
Ni 1	4600.355	-0.610	29.1	5.613	9.3	4.718				
Ni 1	4604.982	-0.250	42.9	5.461	18.4	4.575	4.1	4.064	7.7	3.534
Ni 1	4606.219	-1.000	15.5	5.620	5.2	4.841				
Ni 1	4609.905	-0.580	7.1	5.257:						
Ni 1	4648.646	-0.100	52.9	5.466	26.4	4.555	6.9	4.100	6.3	3.218
Ni 1	4686.207	-0.580	43.3	5.895:	6.8	4.541:				
Ni 1	4703.803	-0.735	22.1	5.623	7.3	4.800				

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$		
			G27-44		HD188510		G37-26		HD115444	
Ni 1	4714.408	0.260	78.4	5.565	48.7	4.526	17.0	4.159	16.1	3.271
Ni 1	4715.757	-0.320	41.0	5.532	15.2	4.609	3.9	4.163		
Ni 1	4729.273	-1.200	4.1	5.633						
Ni 1	4731.793	-0.850	12.8	5.578						
Ni 1	4732.456	-0.550	15.6	5.636						
Ni 1	4754.756	-0.970	13.7	5.560					2.7	3.946:
Ni 1	4773.409	-1.530	8.0	5.903:						
Ni 1	4786.278	-3.120	8.3	5.608						
Ni 1	4786.531	-0.160	54.2	5.534	25.0	4.576	5.0	4.001	8.2	3.393
Ni 1	4806.984	-0.640	24.4	5.590	9.2	4.819				
Ni 1	4811.979	-1.480	10.4	5.947:						
Ni 1	4829.016	-0.330	42.6	5.553	17.0	4.660			3.2	3.268
Ni 1	4831.169	-0.320	36.3	5.479	14.3	4.634	4.0	4.229	4.1	3.446
Ni 1	4832.686	-0.979	24.8	6.068:	8.5	5.257:	2.7	4.898:		
Ni 1	4874.788	-1.450	6.9	5.601						
Ni 1	4904.407	-0.170	49.5	5.534	22.7	4.647	5.1	4.127	4.7	3.281
Ni 1	4913.968	-0.630	23.8	5.615	3.5	4.423:				
Ni 1	4918.362	-0.240	36.6	5.617	13.7	4.762				
Ni 1	4925.559	-0.770	21.4	5.610	6.7	4.768				
Ni 1	4930.796	-1.657	8.0	6.162:						
Ni 1	4935.831	-0.350	19.6	5.400	9.5	4.796				
Ni 1	4937.341	-0.390	36.6	5.523	14.2	4.686	2.9	4.147	3.4	3.425
Ni 1	4952.276	-1.736	7.6	5.998:	3.2	5.362:				
Ni 1	4953.200	-0.580	19.3	5.440	5.4	4.563:				
Ni 1	4980.166	0.070	58.7	5.541	26.0	4.532	5.7	3.998	7.2	3.306
Ni 1	4984.112	0.226	52.5	5.534	24.2	4.611	5.6	4.016	6.3	3.309
Zn 1	4680.134	-0.815	25.6	3.972			2.5	2.714		
Zn 1	4722.153	-0.338	40.7	3.901	15.2	3.163	5.1	2.592	8.4	1.876
Zn 1	4810.528	-0.137	47.5	3.905	20.5	3.172	8.4	2.674	15.2	2.028
Sr 2	4077.709	0.167	202.1	2.060	153.6	0.926	97.5	0.869	143.6	0.022
Sr 2	4161.792	-0.502	17.6	2.476			1.5	1.210	7.1	0.766
Sr 2	4215.519	-0.145	187.5	2.266	143.2	1.132	86.3	0.985	131.9	0.102
Y 2	3549.005	-0.280	54.8	1.856	28.8	0.782	11.5	0.201	44.4	-0.724
Y 2	3600.741	0.280	74.5	1.926	43.2	0.667	25.8	0.236	70.1	-0.484

Element	$\lambda, \text{\AA}$	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$		
			G27-44		HD188510		G37-26		HD115444	
Y 2	3710.294	0.460	84.5	1.829	51.8	0.654	37.2	0.366	76.9	-0.553
Y 2	3774.331	0.210	78.3	1.873	44.8	0.668	24.6	0.140	70.3	-0.594
Y 2	3950.352	-0.490	47.7	1.580	25.0	0.773	8.0	0.112	48.2	-0.575
Y 2	4204.695	-1.760			52.5	2.597:	13.6	1.534:		
Y 2	4398.013	-1.000	29.6	1.540	11.6	0.791	4.1	0.272	21.4	-0.709
Y 2	4883.684	0.070	37.7	1.548	12.2	0.700	4.3	0.127	17.1	-0.799
Zr 2	3671.265	-0.600	40.0	2.586:	11.8	1.572	3.6	0.940		
Zr 2	3674.696	-0.446	80.3	3.289:	55.0	2.275	14.3	1.108	44.8	0.089
Zr 2	3714.794	-0.930	17.6	2.057	6.1	1.370			13.3	-0.009
Zr 2	3998.954	-0.387	37.0	2.078	18.2	1.414	5.4	0.731	26.3	-0.158
Zr 2	4050.316	-1.000	9.7	1.931					8.8	0.039
Zr 2	4161.213	-0.720	55.7	3.087:	15.9	1.798	3.6	1.004	19.2	0.148
Zr 2	4208.977	-0.460	29.4	2.056	12.9	1.418	4.3	0.824	21.4	-0.055
Zr 2	4317.299	-1.380	7.7	2.170					6.0	0.204
Ba 2	4130.645	0.680	25.6	1.684	11.6	1.225	2.1	0.277	10.4	-0.226
Ba 2	4554.029	0.170	137.1	1.802	107.3	0.711	58.5	0.412	141.6	0.114
La 2	3988.515	0.138	24.6	0.873	5.8	-0.092			18.9	-1.264
La 2	3995.745	-0.094	23.6	0.855	7.3	0.010			16.7	-1.377
La 2	4086.709	-0.032	23.8	0.621	10.5	-0.055			22.0	-1.504
La 2	4123.218	0.067	27.9	0.945	9.5	0.127			14.6	-1.451
La 2	4322.503	-1.051	5.4	0.957	2.5	0.432:			3.5	-1.225
Ce 2	3577.456	0.174	16.4	1.569						
Ce 2	3999.237	0.232	11.0	0.995					6.5	-1.288:
Ce 2	4014.897	-0.032	7.7	1.293					3.9	-0.982
Ce 2	4081.219	-0.244	23.5	2.094:	10.1	1.426:			8.4	-0.482:
Ce 2	4083.222	0.109	8.5	1.359	4.2	0.877	1.7	0.433		
Ce 2	4118.143	0.017	6.7	1.322	4.2	0.956				
Ce 2	4120.827	-0.130	2.6	0.667:					4.6	-1.071
Ce 2	4137.645	0.246	14.9	1.340			1.1	-0.091	9.6	-0.868
Ce 2	4186.594	0.813	55.7	2.386:	43.5	1.788:	11.1	0.795:	18.8	-0.660:
Ce 2	4523.075	0.080	6.9	1.072	3.0	0.510			6.2	-0.945
Ce 2	4539.745	-0.459	15.6	1.854:	4.9	1.077:			6.7	-0.596:
Ce 2	4562.359	0.310	10.0	0.983	3.6	0.322			8.0	-1.102

Element	λ , Å	$\lg gf$	E.W.		E.W.		E.W.		E.W.	
			$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$	$\lg \varepsilon(X)$		
			G27-44		HD188510		G37-26		HD115444	
Ce 2	4628.161	0.220	6.6	0.895	3.3	0.405	1.0	-0.151	6.2	-1.093
Ce 2	4773.941	0.270	2.7	0.811:						
Nd 2	4022.976	-0.301	12.7	1.246	5.3	0.606			10.8	-0.890
Nd 2	4061.080	0.347	32.5	1.506	13.5	0.712	2.9	-0.061	24.9	-0.757
Nd 2	4232.374	-0.339			4.9	0.436			7.8	-1.207:
Nd 2	4358.161	-0.209	17.3	1.410	11.5	0.991			11.3	-0.857
Nd 2	4368.631	-0.910	8.6	1.476	4.0	0.897			6.3	-0.750
Nd 2	4462.979	-0.047	13.2	1.311					9.9	-0.804
Nd 2	4706.543	-0.775	9.3	1.282	3.6	0.609			6.6	-0.979
Nd 2	4811.342	-1.015	4.3	1.203					6.8	-0.656
Nd 2	4989.950	-0.624			2.3	0.894:			5.0	-0.516:
Sm 2	3661.352	-0.427	41.5	2.032:	27.8	1.392:	5.0	0.384	15.9	-0.917
Sm 2	3993.309	-0.894	3.7	0.849					5.7	-1.007
Sm 2	4042.897	-0.735	10.1	1.231:			2.5	0.369	14.0	-0.653:
Sm 2	4519.630	-0.432	3.3	0.768					3.4	-1.149
Sm 2	4523.909	-0.578							3.6	-1.108
Sm 2	4537.941	-0.230	4.3	0.629	2.7	0.251			4.3	-1.319
Sm 2	4642.228	-0.523	4.1	0.789					4.4	-1.155
Sm 2	4676.902	-0.861	2.6	0.588	2.5	0.363			4.3	-1.238
Eu 2	4129.725	0.173	37.6	0.572	16.8	-0.249	1.7	-1.396	56.7	-1.139
Gd 2	4085.558	-0.009	3.4	0.717					5.7	-0.903
Gd 2	4130.366	-0.090	4.4	0.917	8.2	1.094			6.7	-0.754
Dy 2	3550.218	0.463	17.8	0.835			2.7	-0.331	14.5	-1.229
Dy 2	4073.121	-0.380	11.6	1.239					7.0	-0.904
Dy 2	4103.306	-0.390							17.3	-0.959