

2M0046														
J1	16.627	STD J1	12.776	Gem STD J1	10.699	STD mag offset	-2.077	Avg J Offset	-2.0256	App mag J1	14.6014	Avg App J	14.6306	
J2	16.674	STD J2	12.688	Gem STD J2	10.699	STD mag offset	-1.989			App mag J2	14.6484			
J3	16.681	STD J3	12.704	Gem STD J3	10.699	STD mag offset	-2.005			App mag J3	14.6554			
J4	16.666	STD J4	12.748	Gem STD J4	10.699	STD mag offset	-2.049			App mag J4	14.6344			
J5	16.639	STD J5	12.707	Gem STD J5	10.699	STD mag offset	-2.008			App mag J5	14.6134			
H1	15.148	STD H1	12.116	Gem STD H1	10.495	STD mag offset	-1.621	Avg H Offset	-1.6634	App mag H1	13.4846	Avg App H	13.524	
H2	15.157	STD H2	12.187	Gem STD H2	10.495	STD mag offset	-1.692			App mag H2	13.4936			
H3	15.204	STD H3	12.204	Gem STD H3	10.495	STD mag offset	-1.709			App mag H3	13.5406			
H4	15.211	STD H4	12.2	Gem STD H4	10.495	STD mag offset	-1.705			App mag H4	13.5476			
H5	15.217	STD H5	12.085	Gem STD H5	10.495	STD mag offset	-1.59			App mag H5	13.5536			
K1	15.162	STD K1	12.308	Gem STD K1	10.47	STD mag offset	-1.838	Avg K Offset	-1.8496	App mag K1	13.3124	Avg App K	13.3124	
K2	15.168	STD K2	12.317	Gem STD K2	10.47	STD mag offset	-1.847			App mag K2	13.3184			
K3	15.178	STD K3	12.331	Gem STD K3	10.47	STD mag offset	-1.861			App mag K3	13.3284			
K4	15.167	STD K4	12.329	Gem STD K4	10.47	STD mag offset	-1.859			App mag K4	13.3174			
K5	15.135	STD K5	12.313	Gem STD K5	10.47	STD mag offset	-1.843			App mag K5	13.2854			
ULAS0006														
J1	20.392	STD J1	12.776	Gem STD J1	10.699	STD mag offset	-2.077	Avg J Offset	-2.0256	App mag J1	18.3664	Avg App J	18.3116	
J2	20.35	STD J2	12.688	Gem STD J2	10.699	STD mag offset	-1.989			App mag J2	18.3244			
J3	20.243	STD J3	12.704	Gem STD J3	10.699	STD mag offset	-2.005			App mag J3	18.2174			
J4	20.324	STD J4	12.748	Gem STD J4	10.699	STD mag offset	-2.049			App mag J4	18.2984			
J5	20.377	STD J5	12.707	Gem STD J5	10.699	STD mag offset	-2.008			App mag J5	18.3514			
H1	18.343	STD H1	12.116	Gem STD H1	10.495	STD mag offset	-1.621	Avg H Offset	-1.6634	App mag H1	16.6796	Avg App H	16.6394	
H2	18.36	STD H2	12.187	Gem STD H2	10.495	STD mag offset	-1.692			App mag H2	16.6966			
H3	18.27	STD H3	12.204	Gem STD H3	10.495	STD mag offset	-1.709			App mag H3	16.6066			
H4	18.233	STD H4	12.2	Gem STD H4	10.495	STD mag offset	-1.705			App mag H4	16.5696			
H5	18.308	STD H5	12.085	Gem STD H5	10.495	STD mag offset	-1.59			App mag H5	16.6446			
K1	18.002	STD K1	12.308	Gem STD K1	10.47	STD mag offset	-1.838	Avg K Offset	-1.8496	App mag K1	16.1524	Avg App K	16.2276	
K2	18.072	STD K2	12.317	Gem STD K2	10.47	STD mag offset	-1.847			App mag K2	16.2224			
K3	18.114	STD K3	12.331	Gem STD K3	10.47	STD mag offset	-1.861			App mag K3	16.2644			
K4	18.03	STD K4	12.329	Gem STD K4	10.47	STD mag offset	-1.859			App mag K4	16.1804			
K5	18.168	STD K5	12.313	Gem STD K5	10.47	STD mag offset	-1.843			App mag K5	16.3184			

WISE0043

J1	17.334	STD J1	12.58	Gem STD J1	10.54	STD mag offset	-2.04	Avg J Offset	-2.11	App mag J1	15.224	Avg App J	15.2246
J2	17.302	STD J2	12.603	Gem STD J2	10.54	STD mag offset	-2.063			App mag J2	15.192		
J3	17.356	STD J3	12.777	Gem STD J3	10.54	STD mag offset	-2.237			App mag J3	15.246		
J4	17.353	STD J4	12.675	Gem STD J4	10.54	STD mag offset	-2.135			App mag J4	15.243		
J5	17.328	STD J5	12.615	Gem STD J5	10.54	STD mag offset	-2.075			App mag J5	15.218		
H1	15.824	STD H1	12.057	Gem STD H1	10.405	STD mag offset	-1.652	Avg H Offset	-1.6284	App mag H1	14.1956	Avg App H	14.149
H2	15.874	STD H2	12.01	Gem STD H2	10.405	STD mag offset	-1.605			App mag H2	14.2456		
H3	15.705	STD H3	12.042	Gem STD H3	10.405	STD mag offset	-1.637			App mag H3	14.0766		
H4	15.697	STD H4	12.043	Gem STD H4	10.405	STD mag offset	-1.638			App mag H4	14.0686		
H5	15.787	STD H5	12.015	Gem STD H5	10.405	STD mag offset	-1.61			App mag H5	14.1586		
K1	15.816	STD K1	12.194	Gem STD K1	10.366	STD mag offset	-1.828	Avg K Offset	-1.8256	App mag K1	13.9904	Avg App K	13.9706
K2	15.785	STD K2	12.197	Gem STD K2	10.366	STD mag offset	-1.831			App mag K2	13.9594		
K3	15.812	STD K3	12.209	Gem STD K3	10.366	STD mag offset	-1.843			App mag K3	13.9864		
K4	15.778	STD K4	12.229	Gem STD K4	10.366	STD mag offset	-1.863			App mag K4	13.9524		
K5	15.79	STD K5	12.129	Gem STD K5	10.366	STD mag offset	-1.763			App mag K5	13.9644		

WISE0145

J1	19.416	STD J1	13.143	Gem STD J1	11.008	STD mag offset	-2.135	Avg J Offset	-2.1604	App mag J1	17.2556	Avg App J	17.233
J2	19.414	STD J2	13.1	Gem STD J2	11.008	STD mag offset	-2.092			App mag J2	17.2536		
J3	19.341	STD J3	13.136	Gem STD J3	11.008	STD mag offset	-2.128			App mag J3	17.1806		
J4	19.422	STD J4	13.266	Gem STD J4	11.008	STD mag offset	-2.258			App mag J4	17.2616		
J5	19.374	STD J5	13.197	Gem STD J5	11.008	STD mag offset	-2.189			App mag J5	17.2136		
H1	17.38	STD H1	12.481	Gem STD H1	10.721	STD mag offset	-1.76	Avg H Offset	-1.6078	App mag H1	15.7722	Avg App H	15.6814
H2	17.387	STD H2	12.252	Gem STD H2	10.721	STD mag offset	-1.531			App mag H2	15.7792		
H3	17.308	STD H3	12.371	Gem STD H3	10.721	STD mag offset	-1.65			App mag H3	15.7002		
H4	17.223	STD H4	12.285	Gem STD H4	10.721	STD mag offset	-1.564			App mag H4	15.6152		
H5	17.148	STD H5	12.255	Gem STD H5	10.721	STD mag offset	-1.534			App mag H5	15.5402		
K1	16.887	STD K1	12.753	Gem STD K1	10.669	STD mag offset	-2.084	Avg K Offset	-2.0094	App mag K1	14.8776	Avg App K	14.9202
K2	16.911	STD K2	12.641	Gem STD K2	10.669	STD mag offset	-1.972			App mag K2	14.9016		
K3	16.918	STD K3	12.646	Gem STD K3	10.669	STD mag offset	-1.977			App mag K3	14.9086		
K4	16.964	STD K4	12.711	Gem STD K4	10.669	STD mag offset	-2.042			App mag K4	14.9546		
K5	16.968	STD K5	12.641	Gem STD K5	10.669	STD mag offset	-1.972			App mag K5	14.9586		

WISE0206													
J1	19.222	STD J1	13.369	Gem STD J1	11.267	STD mag offset	-2.102	Avg J Offset	-2.1522	App mag J1	17.0698	Avg App J	17.0066
J2	19.163	STD J2	13.382	Gem STD J2	11.267	STD mag offset	-2.115			App mag J2	17.0108		
J3	19.153	STD J3	13.45	Gem STD J3	11.267	STD mag offset	-2.183			App mag J3	17.0008		
J4	19.21	STD J4	13.478	Gem STD J4	11.267	STD mag offset	-2.211			App mag J4	17.0578		
J5	19.046	STD J5	13.417	Gem STD J5	11.267	STD mag offset	-2.15			App mag J5	16.8938		
H1	16.684	STD H1	12.645	Gem STD H1	10.936	STD mag offset	-1.709	Avg H Offset	-1.819	App mag H1	14.865	Avg App H	15.0028
H2	16.785	STD H2	12.788	Gem STD H2	10.936	STD mag offset	-1.852			App mag H2	14.966		
H3	16.954	STD H3	12.907	Gem STD H3	10.936	STD mag offset	-1.971			App mag H3	15.135		
H4	16.919	STD H4	12.728	Gem STD H4	10.936	STD mag offset	-1.792			App mag H4	15.1		
H5	16.767	STD H5	12.707	Gem STD H5	10.936	STD mag offset	-1.771			App mag H5	14.948		
K1	16.356	STD K1	12.896	Gem STD K1	10.878	STD mag offset	-2.018	Avg K Offset	-2.0654	App mag K1	14.2906	Avg App K	14.2766
K2	16.353	STD K2	12.937	Gem STD K2	10.878	STD mag offset	-2.059			App mag K2	14.2876		
K3	16.381	STD K3	12.943	Gem STD K3	10.878	STD mag offset	-2.065			App mag K3	14.3156		
K4	16.349	STD K4	13.007	Gem STD K4	10.878	STD mag offset	-2.129			App mag K4	14.2836		
K5	16.271	STD K5	12.934	Gem STD K5	10.878	STD mag offset	-2.056			App mag K5	14.2056		
WISE0607													
J1		STD J1		Gem STD J1		STD mag offset	0	Avg J Offset	0	App mag J1	0	Avg App J	0
J2		STD J2		Gem STD J2		STD mag offset	0			App mag J2	0		
J3		STD J3		Gem STD J3		STD mag offset	0			App mag J3	0		
J4		STD J4		Gem STD J4		STD mag offset	0			App mag J4	0		
J5		STD J5		Gem STD J5		STD mag offset	0			App mag J5	0		
H1		STD H1		Gem STD H1		STD mag offset	0	Avg H Offset	0	App mag H1	0	Avg App H	0
H2		STD H2		Gem STD H2		STD mag offset	0			App mag H2	0		
H3		STD H3		Gem STD H3		STD mag offset	0			App mag H3	0		
H4		STD H4		Gem STD H4		STD mag offset	0			App mag H4	0		
H5		STD H5		Gem STD H5		STD mag offset	0			App mag H5	0		
K1		STD K1		Gem STD K1		STD mag offset	0	Avg K Offset	0	App mag K1	0	Avg App K	0
K2		STD K2		Gem STD K2		STD mag offset	0			App mag K2	0		
K3		STD K3		Gem STD K3		STD mag offset	0			App mag K3	0		
K4		STD K4		Gem STD K4		STD mag offset	0			App mag K4	0		
K5		STD K5		Gem STD K5		STD mag offset	0			App mag K5	0		
WISE0656													
J1	17.972	STD J1	14.132	Gem STD J1	11.668	STD mag offset	-2.464	Avg J Offset	-2.343	App mag J1	15.629	Avg App J	15.6278

J2	17.986	STD J2	13.89	Gem STD J2	11.668	STD mag offset	-2.222			App mag J2	15.613		
J3	18.009	STD J3		Gem STD J3		STD mag offset				App mag J3	15.666		
J4	17.982	STD J4		Gem STD J4		STD mag offset				App mag J4	15.639		
J5	17.935	STD J5		Gem STD J5		STD mag offset				App mag J5	15.592		
H1	16.458	STD H1	13.094	Gem STD H1	11.393	STD mag offset	-1.701	Avg H Offset	-1.7475	App mag H1	14.7105	Avg App H	14.7277
H2	16.509	STD H2	13.187	Gem STD H2	11.393	STD mag offset	-1.794			App mag H2	14.7615		
H3	16.498	STD H3		Gem STD H3		STD mag offset				App mag H3	14.7505		
H4	16.428	STD H4		Gem STD H4		STD mag offset				App mag H4	14.6805		
H5	16.483	STD H5		Gem STD H5		STD mag offset				App mag H5	14.7355		
K1	16.651	STD K1	13.171	Gem STD K1	11.347	STD mag offset	-1.824	Avg K Offset	-1.9018	App mag K1	14.7492	Avg App K	14.7678
K2	16.676	STD K2	13.209	Gem STD K2	11.347	STD mag offset	-1.862			App mag K2	14.7742		
K3	16.736	STD K3	13.335	Gem STD K3	11.347	STD mag offset	-1.988			App mag K3	14.8342		
K4	16.696	STD K4	13.277	Gem STD K4	11.347	STD mag offset	-1.93			App mag K4	14.7942		
K5	16.589	STD K5	13.252	Gem STD K5	11.347	STD mag offset	-1.905			App mag K5	14.6872		
							652						
J1		STD J1	13.846	Gem STD J1	11.668	STD mag offset	-2.178	Avg J Offset	-2.1924	App mag J1		Avg App J	13.73426667
J2		STD J2	13.847	Gem STD J2	11.668	STD mag offset	-2.179			App mag J2			
J3	16.049	STD J3	13.871	Gem STD J3	11.668	STD mag offset	-2.203			App mag J3	13.8566		
J4	15.773	STD J4	13.898	Gem STD J4	11.668	STD mag offset	-2.23			App mag J4	13.5806		
J5	15.958	STD J5	13.84	Gem STD J5	11.668	STD mag offset	-2.172			App mag J5	13.7656		
H1	14.054	STD H1	12.984	Gem STD H1	11.393	STD mag offset	-1.591	Avg H Offset	-1.6082	App mag H1	12.4458	Avg App H	12.4528
H2	14.072	STD H2	12.946	Gem STD H2	11.393	STD mag offset	-1.553			App mag H2	12.4638		
H3	14.135	STD H3	13.026	Gem STD H3	11.393	STD mag offset	-1.633			App mag H3	12.5268		
H4	14.086	STD H4	13.06	Gem STD H4	11.393	STD mag offset	-1.667			App mag H4	12.4778		
H5	13.958	STD H5	12.99	Gem STD H5	11.393	STD mag offset	-1.597			App mag H5	12.3498		
K1	13.62	STD K1	13.276	Gem STD K1	11.347	STD mag offset	-1.929	Avg K Offset	-1.9076	App mag K1	11.7124	Avg App K	11.6732
K2	13.607	STD K2	13.247	Gem STD K2	11.347	STD mag offset	-1.9			App mag K2	11.6994		
K3	13.608	STD K3	13.287	Gem STD K3	11.347	STD mag offset	-1.94			App mag K3	11.7004		
K4	13.564	STD K4	13.242	Gem STD K4	11.347	STD mag offset	-1.895			App mag K4	11.6564		
K5	13.505	STD K5	13.221	Gem STD K5	11.347	STD mag offset	-1.874			App mag K5	11.5974		
							656						
J1		STD J1		Gem STD J1		STD mag offset	0	Avg J Offset	0	App mag J1	0	Avg App J	0
J2		STD J2		Gem STD J2		STD mag offset	0			App mag J2	0		

J3		STD J3		Gem STD J3		STD mag offset		0			App mag J3		0		
J4		STD J4		Gem STD J4		STD mag offset		0			App mag J4		0		
J5		STD J5		Gem STD J5		STD mag offset		0			App mag J5		0		
H1		STD H1		Gem STD H1		STD mag offset		0	Avg H Offset		0	App mag H1	0	Avg App H	0
H2		STD H2		Gem STD H2		STD mag offset		0			App mag H2		0		
H3		STD H3		Gem STD H3		STD mag offset		0			App mag H3		0		
H4		STD H4		Gem STD H4		STD mag offset		0			App mag H4		0		
H5		STD H5		Gem STD H5		STD mag offset		0			App mag H5		0		
K1		STD K1		Gem STD K1		STD mag offset		0	Avg K Offset		0	App mag K1	0	Avg App K	0
K2		STD K2		Gem STD K2		STD mag offset		0			App mag K2		0		
K3		STD K3		Gem STD K3		STD mag offset		0			App mag K3		0		
K4		STD K4		Gem STD K4		STD mag offset		0			App mag K4		0		
K5		STD K5		Gem STD K5		STD mag offset		0			App mag K5		0		
								807							
J1	18.62	STD J1	13.084	Gem STD J1	10.797	STD mag offset		-2.287	Avg J Offset	-2.2886	App mag J1	16.3314	Avg App J	16.311	
J2	18.568	STD J2	13.114	Gem STD J2	10.797	STD mag offset		-2.317			App mag J2	16.2794			
J3	18.614	STD J3	13.13	Gem STD J3	10.797	STD mag offset		-2.333			App mag J3	16.3254			
J4	18.599	STD J4	13.101	Gem STD J4	10.797	STD mag offset		-2.304			App mag J4	16.3104			
J5	18.597	STD J5	12.999	Gem STD J5	10.797	STD mag offset		-2.202			App mag J5	16.3084			
H1	16.623	STD H1	12.633	Gem STD H1	10.423	STD mag offset		-2.21	Avg H Offset	-2.2134	App mag H1	14.4096	Avg App H	14.39035	
H2	16.555	STD H2	12.504	Gem STD H2	10.423	STD mag offset		-2.081			App mag H2	14.3416			
H3		STD H3	12.665	Gem STD H3	10.423	STD mag offset		-2.242			App mag H3				
H4	16.704	STD H4	12.757	Gem STD H4	10.423	STD mag offset		-2.334			App mag H4	14.4906			
H5	16.533	STD H5	12.623	Gem STD H5	10.423	STD mag offset		-2.2			App mag H5	14.3196			
K1	16.116	STD K1	12.716	Gem STD K1	10.355	STD mag offset		-2.361	Avg K Offset	-2.4308	App mag K1	13.6852	Avg App K	13.6326	
K2	16.094	STD K2	12.676	Gem STD K2	10.355	STD mag offset		-2.321			App mag K2	13.6632			
K3	16.033	STD K3	12.911	Gem STD K3	10.355	STD mag offset		-2.556			App mag K3	13.6022			
K4	16.041	STD K4	12.828	Gem STD K4	10.355	STD mag offset		-2.473			App mag K4	13.6102			
K5	16.033	STD K5	12.798	Gem STD K5	10.355	STD mag offset		-2.443			App mag K5	13.6022			
								819							
J1	17.384	STD J1	14.405	Gem STD J1	11.99	STD mag offset		-2.415	Avg J Offset	-2.3954	App mag J1	14.9886	Avg App J	15.0416	
J2	17.459	STD J2	14.371	Gem STD J2	11.99	STD mag offset		-2.381			App mag J2	15.0636			
J3	17.506	STD J3	14.408	Gem STD J3	11.99	STD mag offset		-2.418			App mag J3	15.1106			

J4	17.432	STD J4	14.306	Gem STD J4	11.99	STD mag offset	-2.316			App mag J4	15.0366	
J5	17.404	STD J5	14.437	Gem STD J5	11.99	STD mag offset	-2.447			App mag J5	15.0086	
H1	16.179	STD H1	13.098	Gem STD H1	11.482	STD mag offset	-1.616	Avg H Offset	-1.5944	App mag H1	14.5846	Avg App H
H2	16.215	STD H2	13.03	Gem STD H2	11.482	STD mag offset	-1.548			App mag H2	14.6206	
H3	16.218	STD H3	13.089	Gem STD H3	11.482	STD mag offset	-1.607			App mag H3	14.6236	
H4	16.156	STD H4	13.045	Gem STD H4	11.482	STD mag offset	-1.563			App mag H4	14.5616	
H5	16.133	STD H5	13.12	Gem STD H5	11.482	STD mag offset	-1.638			App mag H5	14.5386	
K1	16.432	STD K1	13.022	Gem STD K1	11.075	STD mag offset	-1.947	Avg K Offset	-1.9494	App mag K1	14.4826	Avg App K
K2	16.459	STD K2	13.008	Gem STD K2	11.075	STD mag offset	-1.933			App mag K2	14.5096	
K3	16.515	STD K3	13.037	Gem STD K3	11.075	STD mag offset	-1.962			App mag K3	14.5656	
K4	16.425	STD K4	13.022	Gem STD K4	11.075	STD mag offset	-1.947			App mag K4	14.4756	
K5	16.428	STD K5	13.033	Gem STD K5	11.075	STD mag offset	-1.958			App mag K5	14.4786	
							852					
J1	18.85	STD J1	13.084	Gem STD J1	10.797	STD mag offset	-2.287	Avg J Offset	-2.2886	App mag J1	16.5614	Avg App J
J2	18.852	STD J2	13.114	Gem STD J2	10.797	STD mag offset	-2.317			App mag J2	16.5634	
J3	18.91	STD J3	13.13	Gem STD J3	10.797	STD mag offset	-2.333			App mag J3	16.6214	
J4	18.918	STD J4	13.101	Gem STD J4	10.797	STD mag offset	-2.304			App mag J4	16.6294	
J5	18.88	STD J5	12.998	Gem STD J5	10.797	STD mag offset	-2.202			App mag J5	16.5914	
H1	16.817	STD H1	12.633	Gem STD H1	10.423	STD mag offset	-2.21	Avg H Offset	-2.2134	App mag H1	14.6036	Avg App H
H2	16.865	STD H2	12.504	Gem STD H2	10.423	STD mag offset	-2.081			App mag H2	14.6516	
H3	16.942	STD H3	12.665	Gem STD H3	10.423	STD mag offset	-2.242			App mag H3	14.7286	
H4	17.084	STD H4	12.757	Gem STD H4	10.423	STD mag offset	-2.334			App mag H4	14.8706	
H5	17.016	STD H5	12.623	Gem STD H5	10.423	STD mag offset	-2.2			App mag H5	14.8026	
K1	16.418	STD K1	12.716	Gem STD K1	10.355	STD mag offset	-2.361	Avg K Offset	-2.4308	App mag K1	13.9872	Avg App K
K2	16.447	STD K2	12.676	Gem STD K2	10.355	STD mag offset	-2.321			App mag K2	14.0162	
K3	16.472	STD K3	12.911	Gem STD K3	10.355	STD mag offset	-2.566			App mag K3	14.0412	
K4	16.434	STD K4	12.828	Gem STD K4	10.355	STD mag offset	-2.473			App mag K4	14.0032	
K5	16.484	STD K5	12.798	Gem STD K5	10.355	STD mag offset	-2.443			App mag K5	14.0532	
							857					
J1	17.568	STD J1	12.963	Gem STD J1	10.797	STD mag offset	-2.166	Avg J Offset	-2.1402	App mag J1	15.4278	Avg App J
J2	17.486	STD J2	12.879	Gem STD J2	10.797	STD mag offset	-2.082			App mag J2	15.3458	
J3	17.477	STD J3	12.987	Gem STD J3	10.797	STD mag offset	-2.19			App mag J3	15.3368	

J4	17.523	STD J4	12.96	Gem STD J4	10.797	STD mag offset	-2.163			App mag J4	15.3828		
J5	17.53	STD J5	12.897	Gem STD J5	10.797	STD mag offset	-2.1			App mag J5	15.3898		
H1	15.394	STD H1	12.562	Gem STD H1	10.423	STD mag offset	-2.139	Avg H Offset	-2.0154	App mag H1	13.3786	Avg App H	13.363
H2	15.329	STD H2	12.573	Gem STD H2	10.423	STD mag offset	-2.15			App mag H2	13.3136		
H3	15.323	STD H3	12.544	Gem STD H3	10.423	STD mag offset	-2.121			App mag H3	13.3076		
H4	15.422	STD H4	12.31	Gem STD H4	10.423	STD mag offset	-1.887			App mag H4	13.4066		
H5	15.424	STD H5	12.203	Gem STD H5	10.423	STD mag offset	-1.78			App mag H5	13.4086		
K1	14.776	STD K1	12.709	Gem STD K1	10.355	STD mag offset	-2.354	Avg K Offset	-2.299	App mag K1	12.477	Avg App K	12.4818
K2	14.776	STD K2	12.649	Gem STD K2	10.355	STD mag offset	-2.294			App mag K2	12.477		
K3	14.775	STD K3	12.72	Gem STD K3	10.355	STD mag offset	-2.365			App mag K3	12.476		
K4	14.82	STD K4	12.598	Gem STD K4	10.355	STD mag offset	-2.243			App mag K4	12.521		
K5	14.757	STD K5	12.594	Gem STD K5	10.355	STD mag offset	-2.239			App mag K5	12.458		
							908						
J1	17.088	STD J1	12.963	Gem STD J1	10.797	STD mag offset	-2.166	Avg J Offset	-2.1402	App mag J1	14.9473	Avg App J	14.9496
J2	17.105	STD J2	12.879	Gem STD J2	10.797	STD mag offset	-2.082			App mag J2	14.9648		
J3	17.057	STD J3	12.987	Gem STD J3	10.797	STD mag offset	-2.19			App mag J3	14.9168		
J4	17.087	STD J4	12.96	Gem STD J4	10.797	STD mag offset	-2.163			App mag J4	14.9468		
J5	17.112	STD J5	12.897	Gem STD J5	10.797	STD mag offset	-2.1			App mag J5	14.9718		
H1	15.135	STD H1	12.562	Gem STD H1	10.423	STD mag offset	-2.139	Avg H Offset	-2.0154	App mag H1	13.1196	Avg App H	13.0656
H2	15.086	STD H2	12.573	Gem STD H2	10.423	STD mag offset	-2.15			App mag H2	13.0706		
H3	15.085	STD H3	12.544	Gem STD H3	10.423	STD mag offset	-2.121			App mag H3	13.0696		
H4	15.053	STD H4	12.31	Gem STD H4	10.423	STD mag offset	-1.887			App mag H4	13.0376		
H5	15.046	STD H5	12.203	Gem STD H5	10.423	STD mag offset	-1.78			App mag H5	13.0306		
K1	14.701	STD K1	12.709	Gem STD K1	10.355	STD mag offset	-2.354	Avg K Offset	-2.299	App mag K1	12.402	Avg App K	12.3982
K2	14.682	STD K2	12.649	Gem STD K2	10.355	STD mag offset	-2.294			App mag K2	12.383		
K3	14.73	STD K3	12.72	Gem STD K3	10.355	STD mag offset	-2.365			App mag K3	12.431		
K4	14.69	STD K4	12.598	Gem STD K4	10.355	STD mag offset	-2.243			App mag K4	12.391		
K5	14.683	STD K5	12.594	Gem STD K5	10.355	STD mag offset	-2.239			App mag K5	12.384		
							1007						
J1		STD J1	12.963	Gem STD J1	10.797	STD mag offset	-2.166	Avg J Offset	-2.1402	App mag J1		Avg App J	17.3983
J2	19.484	STD J2	12.879	Gem STD J2	10.797	STD mag offset	-2.082			App mag J2	17.3438		
J3	19.593	STD J3	12.987	Gem STD J3	10.797	STD mag offset	-2.19			App mag J3	17.4528		

J4		STD J4	12.96	Gem STD J4	10.797	STD mag offset	-2.163			App mag J4		
J5		STD J5	12.897	Gem STD J5	10.797	STD mag offset	-2.1			App mag J5		
H1		STD H1	12.562	Gem STD H1	10.423	STD mag offset	-2.139	Avg H Offset	-2.0154	App mag H1	Avg App H	
H2		STD H2	12.573	Gem STD H2	10.423	STD mag offset	-2.15			App mag H2		
H3		STD H3	12.544	Gem STD H3	10.423	STD mag offset	-2.121			App mag H3		
H4		STD H4	12.31	Gem STD H4	10.423	STD mag offset	-1.887			App mag H4		
H5		STD H5	12.203	Gem STD H5	10.423	STD mag offset	-1.78			App mag H5		
K1	17.584	STD K1	12.709	Gem STD K1	10.355	STD mag offset	-2.354	Avg K Offset	-2.299	App mag K1	15.285	Avg App K
K2	17.063	STD K2	12.649	Gem STD K2	10.355	STD mag offset	-2.294			App mag K2	14.764	
K3	16.957	STD K3	12.72	Gem STD K3	10.355	STD mag offset	-2.365			App mag K3	14.658	
K4		STD K4	12.598	Gem STD K4	10.355	STD mag offset	-2.243			App mag K4		
K5		STD K5	12.594	Gem STD K5	10.355	STD mag offset	-2.239			App mag K5		
							1746					
J1	17.71	STD J1	13.532	Gem STD J1	11.327	STD mag offset	-2.205	Avg J Offset	-2.285	App mag J1	15.4215	Avg App J
J2	17.709	STD J2	13.589	Gem STD J2	11.327	STD mag offset	-2.262			App mag J2	15.4205	
J3	17.741	STD J3	13.668	Gem STD J3	11.327	STD mag offset	-2.341			App mag J3	15.4525	
J4	17.698	STD J4	13.673	Gem STD J4	11.327	STD mag offset	-2.346			App mag J4	15.4095	
J5	17.773	STD J5		Gem STD J5		STD mag offset				App mag J5	15.4845	
H1		STD H1	12.849	Gem STD H1	11.124	STD mag offset	-1.725	Avg H Offset	-1.6938	App mag H1		Avg App H
H2		STD H2	12.838	Gem STD H2	11.124	STD mag offset	-1.714			App mag H2		
H3	16.191	STD H3	12.836	Gem STD H3	11.124	STD mag offset	-1.712			App mag H3	14.4972	
H4	16.105	STD H4	12.794	Gem STD H4	11.124	STD mag offset	-1.67			App mag H4	14.4112	
H5	16.286	STD H5	12.772	Gem STD H5	11.124	STD mag offset	-1.648			App mag H5	14.5922	
K1	15.394	STD K1	13.123	Gem STD K1	11.098	STD mag offset	-2.025	Avg K Offset	-2.0044	App mag K1	13.3896	Avg App K
K2	15.358	STD K2	13.073	Gem STD K2	11.098	STD mag offset	-1.975			App mag K2	13.3536	
K3	15.38	STD K3	13.143	Gem STD K3	11.098	STD mag offset	-2.045			App mag K3	13.3756	
K4	15.373	STD K4	13.121	Gem STD K4	11.098	STD mag offset	-2.023			App mag K4	13.3686	
K5	15.4	STD K5	13.052	Gem STD K5	11.098	STD mag offset	-1.954			App mag K5	13.3956	
14.90233333												