

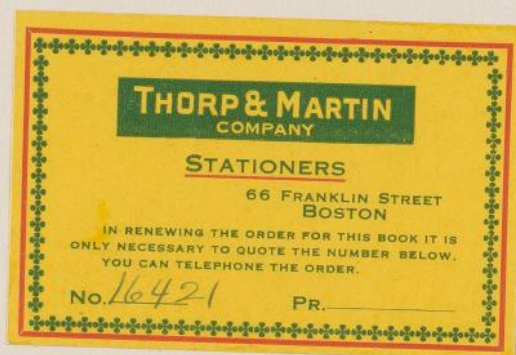
1932phae, proj. 2347M

K



*McMucells*

*Recorded by J. Crossman  
F. Maguire  
H. Tiers*





MAGNITUDES OF NEBULAE















✓  
completedINDEX

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MEM.

16040 (CONTINUED FROM BK. H)

Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	211	17.5:	17.5	17.5	Star attached
	212	17.5	17.5	17.5	
	213	17.5	17.5	17.5	
	214	17.5	17.5	17.5	
	215	17.5	18.0	17.7	
	216	17.5	18.0	17.7	
	217	17.0	17.5	17.2	
	218	17.0	17.5	17.2	
✓	219	17.5	18.0	17.7	
	220	17.5	18.0	17.7	
	221	17.5	18.0	17.7	
	222	17.5	17.5	17.5	
	223	17.0	17.0	17.0	
	224	17.0	17.0	17.0	
	225	17.0	16.5	16.7	
226-247	226	16.5	16.5	16.5	
outside 9 sq.	227	17.5	17.5	17.5	
degrees.	228	17.5	18.0	17.7	
	229	17.5	18.0	17.7	
	230	17.0	17.5	17.2	
	231	16.5	16.5	16.5	Nebrula?
	232	17.5	17.5	17.5	
	233	17.0	16.5	16.7	
	234	17.0	17.0	17.0	
	235	17.5	17.5	17.5	
	236	17.0	17.0	17.0	
	237	17.5	17.5	17.5	
	238	17.0	17.0	17.0	
	239	17.5	17.5	17.5	
	240	16.5	17.0	16.7	



16040

Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	241	17.5	17.5	17.5	Helix?
	242	17.5	18.0	17.7	
	243	17.5	17.5	17.5	
	244	17.0	17.5	17.2	
	245	17.5	17.5	17.5	Helix?
	246	18.0	18.0	18.0	
	247	17.0	17.0	17.0	Helix?
	248	17.5	17.5	17.5	
	249	17.5	18.0	17.7	
	250	17.0	17.5	17.2	
	251	17.0	16.5	16.7	
	252	17.0	17.0	17.0	
	253	17.0	17.0	17.0	
	254	17.0	17.0	17.0	
	255	17.0	17.5	17.2	
	256	17.0	17.0	17.0	
	257	16.5	16.5	16.5	
	258	17.5	18.0	17.7	
	259	17.5	18.0	17.7	
	260	17.0	17.0	17.0	
	261	17.0	16.5	16.7	
	262	17.5	17.5	17.5	
	263	17.0	16.5	16.7	
	264	17.5	17.5	17.5	
	265	17.0	17.5	17.2	
	266	16.5	16.5	16.5	
	267	17.0	17.0	17.0	
	268	17.0	16.5	16.7	
	269	17.5	17.5	17.5	
	270	16.5	16.5	16.5	



16040

Catalogue No.	Current No.	Magn. 1	Magn. 2	Mean	Remarks
	271	17.0	16.5	16.7	
	272	16.5	16.5	16.5	
	273	17.0	17.0	17.0	
	273a	17.5	17.5	17.5	Nebrula?
	274	17.0	17.0	17.0	
	275	17.5	17.5	17.5	
	276	17.0	17.5	17.2	
	277	17.5	17.5	17.5	
	278	17.0	17.5	17.2	
	279	16.5	16.5	16.5	
	280	17.0	17.0	17.0	
	<del>281</del>				Defect
	282	17.5	17.5	17.5	
	283	17.5	17.5	17.5	
	284	17.0	17.0	17.0	
	285	17.0	17.0	17.0	
	286	17.5	17.5	17.5	
	287	16.5	16.5	16.5	
	288	17.0	17.5	17.2	
	289	17.0	17.0	17.0	
	290	17.0	17.0	17.0	
	291	17.5	17.5	17.5	
	292	17.5	17.5	17.5	
	293	17.5	17.5	17.5	Nebrula?
	294	17.0	17.0	17.0	
	295	17.0	17.0	17.0	
	296	17.0	17.0	17.0	
	297	17.0	17.5	17.2	
	298	16.5	17.0	16.7	
	299	17.5	18.0	17.7	
	300	17.5	17.5	17.5	Nebrula?



16040

Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	301	17.5	18.0	17.7	
	302	17.5	18.0	17.7	Nebrula?
	303	17.5	18.0	17.7	"
	304	17.0	17.5	17.2	
	305	18.0	18.0	18.0	Nebrula?
	306	16.0	16.0	16.0	
	307	17.5	18.0	17.7	
	308	17.5	17.5	17.5	
	309	17.0	17.5	17.2	Nebrula?
	310	17.5	18.0	17.7	
	311	17.5	17.5	17.5	
	312	17.5	17.5	17.5	
	313	17.5	17.5	17.5	
	314	17.0	17.5	17.2	Nebrula?
	315	15.5	15.5	15.5	
	316	17.5	17.5	17.5	
	317	17.0	17.5	17.2	
	318	17.0	17.0	17.0	
	319	17.0	17.0	17.0	
✓	320	17.5	17.5	17.5	
✓	321	17.0	17.5	17.2	
✓	322	16.0	16.0	16.0	
✓	323	17.0	17.0	17.0	
✓	324	17.0	17.0	17.0	Nebrula?
✓	325	17.0	17.0	17.0	
✓	326	17.5	17.5	17.5	
✓	327	17.0	17.0	17.0	
✓	328	17.0	17.5	17.2	
✓	329	17.0	17.5	17.2	
✓	330	17.0	17.0	17.0	



16040

Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	331	17.5	17.5	17.5	
	332	16.5	16.5	16.5	
	333	16.5	16.5	16.5	
	334	17.0	16.5	16.7	
	335	17.5	17.5	17.5	
336-349	336	17.5	17.5	17.5	
outside seq. 0	337	17.0	17.5	17.2	Nelula?
	338	17.0	17.0	17.0	
	339	17.0	17.5	17.2	
	340	17.0	17.0	17.0	
	341	17.0	17.0	17.0	
	342	17.0	17.0	17.0	
	343	17.0	17.5	17.2	
	344	17.5	17.5	17.5	
	345	17.0	17.0	17.0	
	346	16.0	15.5	15.7	
	347	17.5	18.0	17.7	
	348	17.5	18.0	17.7	
	349	16.0	15.5	15.7	
	350	17.5	18.0	17.7	Nelula??
	351	18.0	18.0	18.0	
	352	17.5	18.0	17.7	
	353	17.0	17.0	17.0	
	354	17.0	16.5	16.7	
	355	17.5	17.5	17.5	
	356	17.5	18.0	17.7	
	357	17.0	17.5	17.7	
	358	16.5	16.5	16.5	
	359	17.5	18.0	17.7	Nelula?
	360	17.0	17.5	17.2	



<u>16040</u> Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	361	17.5	17.5	17.5	
	362	17.5	17.5	17.5	
	363	17.5	17.5	17.5	
	364	17.5	17.5	17.5	Helix?
	365	17.5	18.0	17.7	
	366	17.5	18.0	17.7	
	367	16.5	17.0	16.7	Helix?
	368	17.5	18.0	17.7	
	369	17.5	18.0	17.7	
	370	17.5	17.5	17.5	
	371	17.5	17.5	17.5	
	372	17.0	17.5	17.2	
	373	17.0	17.5	17.2	
	374	16.0	16.0	16.0	
	375	17.0	17.5	17.2	
	376	17.5	18.0	17.7	
	377	17.0	17.0	17.0	
	378	17.5	18.0	17.7	
	379	17.0	16.5	16.7	
	380	17.5	17.5	17.5	
	381	17.5	17.5	17.5	
	382	17.5	18.0	17.7	
	383	18.0	18.0	18.0	
	384	18.0	18.0	18.0	
	385	17.0	17.5	17.7	
	386	18.0	18.0	18.0	Helix?
	387	16.5	16.5	16.5	
	388	17.0	17.5	17.2	
	389	17.5	17.5	17.5	
	390	17.0	17.0	17.0	



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Catalogue No.	Current No.	Magn. 1	Magn. 2	Mean	Remarks
	391	17.0	17.0	17.0	
	392	17.0	17.0	17.0	
$a =$	392(a)	17.0	17.0	17.0	
	393	17.0	17.5	17.25	
	394	17.5	18.0	17.75	
	395	18.0	18.0	18.0	
	396	17.0	17.5	17.25	
	397	17.0	16.5	16.75	
	398	17.5	17.5	17.5	
	399	17.5	18.0	17.75	
	400	17.0	17.5	17.25	Defect involved
	401	17.0	17.5	17.25	
	402	17.0	17.0	17.0	
	403	17.0	17.0	17.0	
	404	17.5	18.0	17.75	
	405	18.0	18.0	18.0	
	406	17.0	17.5	17.25	
	407	17.5	18.0	17.75	
	408	18.0	18.0	18.0	
	409	17.5	17.5	17.5	
	410	17.0	17.0	17.0	
	411	17.5	17.5	17.5	
	412	17.0	17.0	17.0	
	413	17.5	17.5	17.5	
	414	17.5	18.0	17.75	
	415	17.5	18.0	17.75	
	416	17.5	17.5	17.5	
	417	17.0	17.5	17.25	
	418	17.5	17.5	17.5	
	419	17.0	17.5	17.25	
	420	17.5	17.5	17.5	



<u>16040</u> Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	421	17.5	17.5	17.5	
	422	17.0	17.0	17.0	
	423	17.5	17.5	17.5	
	424	17.0	17.0	17.0	
	425	17.0	17.0	17.0	
	426	17.5	17.5	17.5	
	427	17.5	18.0	17.7	
	428	17.0	17.0	17.0	
	429	17.5	17.5	17.5	
	430	17.0	17.5	17.2	
	431	17.5	17.5	17.5	
	432	17.5	17.5	17.5	
	433	17.0	17.0	17.0	
	434	17.0	17.5	17.2	
	435	17.5	18.0	17.7	
	436	18.0	18.0	18.0	
	437	16.5	16.5	16.5	
	438	17.5	17.5	17.5	
	439	17.5	17.5	17.5	
	440	17.5	18.0	17.7	Nebula?
	441	17.0	17.0	17.0	
✓	442	17.5	17.5	17.5	Nebula?
✓	443	17.5	18.0	17.7	
✓	444	17.5	18.0	17.7	
✓	445	17.5	17.5	17.5	
✓	446	17.5	18.0	17.7	
✓	447	17.0	17.0	17.0	
✓	448	17.0	17.5	17.2	
✓	449	17.5	18.0	17.7	Nebula?
✓	450	17.5	18.0	17.7	



16040

The numbers with a  
after them are within  
the nine square  
degrees.

Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	451	17.0	17.5	17.2 <sub>4</sub>	
✓	452	17.5	17.5	17.5	Nebula?
✓	453	17.0	17.0	17.0	
✓	454	17.0	17.5	17.2 <sub>4</sub>	
✓	455	17.0	17.5	17.2 <sub>4</sub>	
✓	456	17.5	18.0	17.7 <sub>5</sub>	
✓	457	16.0	15.5	15.7 <sub>5</sub>	
✓	458	17.0	17.5	17.2 <sub>4</sub>	
✓	459	16.0	16.5	16.2 <sub>4</sub>	
✓	460	17.5	18.0	17.7 <sub>5</sub>	
✓	461	17.0	17.0	17.0	
✓	462	18.0	18.0	18.0	
✓	462a	17.0	17.5	17.2 <sub>4</sub>	Nebula?
✓	463	17.5	18.0	17.7 <sub>5</sub>	
✓	463a	17.5	17.5	17.5	
✓	464	17.0	17.5	17.2 <sub>4</sub>	
✓	464a	17.5	18.0	17.7 <sub>5</sub>	
✓	465	17.0	17.0	17.0	
✓	465a	17.5	18.0	17.7 <sub>5</sub>	
✓	466	17.5	18.0	17.7 <sub>5</sub>	
✓	466a	17.0	17.5	17.2 <sub>4</sub>	
✓	467	17.0	17.0	17.0	
✓	468	17.5	18.0	17.7 <sub>5</sub>	
	469	17.5	17.5	17.5	
	470	17.5	17.5	17.5	
	471	17.5	17.5	17.5	
	472	17.0	17.5	17.2 <sub>4</sub>	
	473	17.0	17.5	17.2 <sub>4</sub>	
	474	17.5	17.5	17.5	Nebula?
	475	17.0	17.5	17.2 <sub>4</sub>	
	476	17.0	17.0	17.0	
	477	17.0	17.5	17.2 <sub>4</sub>	
	478	18.0	18.0	18.0	
	479	17.0	17.0	17.0	
	480	17.0	17.5	17.2 <sub>4</sub>	



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Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	481	17.0	17.5	17.2 <sub>4</sub>	
	482	17.5	17.5	17.5	
	483	17.0	17.5	17.2 <sub>4</sub>	Helix?
	484	16.5	16.5	16.5	
	485	17.0	17.0	17.0	
	486	17.0	17.5	17.2 <sub>4</sub>	
	487	17.0	17.0	17.0	
	488	17.5	18.0	17.7	
	489	18.0	18.0	18.0	
	490	17.5	18.0	17.7	
	491	17.0	17.5	17.2 <sub>4</sub>	
	492	17.5	18.0	17.7	
	493	16.5	16.5	16.5	
	494	17.5	18.0	17.7	
	495	18.0	18.0	18.0	Defect
	496	17.5	17.5	17.5	
	497	17.5	18.0	17.7	
	498	18.0	18.0	18.0	
	499	17.5	17.5	17.5	
	500	16.5	16.5	16.5	
	501	16.5	17.0	16.7	
	502	17.0	17.0	17.0	
✓	503	17.5	17.5	17.5	
✓	504	17.0	16.5	16.7	Helix?
✓	505	17.0	17.5	17.2 <sub>4</sub>	"
✓	506	17.0	17.0	17.0	
✓	507	17.0	17.5	17.2 <sub>4</sub>	
✓	508	16.5	16.0	16.2 <sub>4</sub>	
✓	509	17.5	17.5	17.5	Star attached
✓	510	17.0	17.5	17.2 <sub>4</sub>	



16040

Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	511	17.5	17.5	17.5	
✓	512	17.0	17.0	17.0	
✓	513	17.5	18.0	17.7	
✓	514	17.0	17.5	17.2	
✓	515	16.5	16.5	16.5	
✓	516	17.0	17.0	17.0	
✓	517	17.0	17.5	17.2	
✓	518	17.0	17.5	17.2	
✓	519	16.5	16.5	16.5	
✓	520	17.0	17.0	17.0	
✓	521	17.0	17.0	17.0	
✓	522	15.5	15.0	15.2	
	523	17.0	17.5	17.2	
	524	17.5	18.0	17.7	
	525	16.5	16.5	16.5	
	526	17.0	17.0	17.0	
	527	17.0	17.0	17.0	
	528	17.5	18.0	17.7	
✓	529	17.5	17.0	17.2	
	530	17.5	17.5	17.5	Helix?
	531	17.0	16.5	16.7	
	532	17.0	17.0	17.0	
	533	16.5	16.5	16.5	
	534	17.0	17.0	17.0	
	535	17.0	17.0	17.0	
	536	17.0	17.5	17.2	
	537	17.0	17.5	17.2	
	538	17.5	18.0	17.7	
	539	17.0	16.5	16.7	
	540	17.0	17.5	17.2	



16040

Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	541	18.0	17.5	17.5	
	542	17.5	17.5	17.5	
	543	17.5	17.5	17.5	
	544	17.5	17.5	17.5	
	545	17.5	18.0	17.5	
	546	17.5	17.5	17.5	
	547	17.0	17.0	17.0	
	548	17.5	17.5	17.5	
	549	17.5	18.0	17.5	
	550	17.5	17.5	17.5	
	551	17.0	17.0	17.0	Nebula?
	552	17.0	17.0	17.0	
	553	17.0	17.0	17.0	
	554	17.5	17.5	17.5	
	555	17.5	17.5	17.5	Nebula?
	556	17.0	17.0	17.0	
	557	17.5	17.5	17.5	
	558	17.0	17.0	17.0	
	559	17.5	17.5	17.5	
	560	17.5	17.5	17.5	
	561	17.0	17.5	17.25	
	562	16.5	16.5	16.5	
	563	17.5	18.0	17.5	
	564	17.0	17.5	17.25	Nebula?
	565	17.0	17.5	17.25	Nebula?
566-586 — outside 9 sq.°	566	17.0	16.5	16.5	
	567	17.0	17.0	17.0	
	568	17.5	17.5	17.5	
	569	17.5	17.5	17.5	
	570	17.0	17.5	17.25	



16040

Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	571	17.0	17.0	17.0	
	572	17.0	17.5	17.2	
	573	17.5	17.5	17.5	
	574	17.5	17.5	17.5	Nebrula?
	575	17.5	18.0	17.7	
	576	17.5	18.0	17.7	
	577	15.5	15.5	15.5	
	578	17.5	17.5	17.5	
	579	18.0	18.0	18.0	
	580	17.5	18.0	17.7	Nebrula?
	581	17.0	17.0	17.0	
	582	17.0	17.5	17.2	Nebrula?
	583	17.5	17.5	17.5	
	584	17.5	17.5	17.5	
	585	17.0	17.5	17.2	
	586	17.0	17.0	17.0	
	587	17.0	17.0	17.0	
✓	588	17.0	17.5	17.2	Nebrula?
	589	18.0	18.0	18.0	"
	590	17.0	17.5	17.2	"
	591	17.0	17.0	17.0	"
	592	18.0	18.0	18.0	"
	593	17.0	17.0	17.0	
	594	17.5	17.5	17.5	
	595	17.0	17.0	17.0	
	596	17.0	17.0	17.0	
	597	17.0	17.0	17.0	
	598	17.5	17.5	17.5	
	599	17.5	17.5	17.5	
	600	17.0	17.0	17.0	



16040

Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	601	17.0	17.0	17.0	
	602	17.0	17.5	17.2 <sub>4</sub>	
	603	17.5	17.5	17.5	
	604	17.5	17.5	17.5	Helix?
	605	17.0	16.5	16.5	
	606	17.5	17.5	17.5	
	607	16.5	16.0	16.2 <sub>4</sub>	
	608	17.0	17.5	17.2 <sub>4</sub>	
	609	15.5	15.5	15.5	
	610	17.5	17.5	17.5	
	611	17.5	17.5	17.5	
	612	17.5	17.5	17.5	
	613	17.0	17.5	17.2 <sub>4</sub>	
	614	17.0	17.0	17.0	
	615	17.0	17.5	17.2 <sub>4</sub>	
616-638	616	17.0	17.5	17.2 <sub>4</sub>	
outside 9	617	17.0	17.0	17.0	
sq. degrees	618	17.0	17.5	17.2 <sub>4</sub>	
	619	17.5	17.5	17.5	
	620	17.0	17.0	17.0	Helix?
	621	17.0	17.0	17.0	
	622	16.5	16.5	16.5	
	623	17.0	17.5	17.2 <sub>4</sub>	
	624	17.0	17.5	17.2 <sub>4</sub>	
	625	17.0	17.0	17.0	
	626	17.0	17.0	17.0	Helix?
	627	18.0	18.0	18.0	
	628	17.0	17.0	17.0	
	629	17.0	17.0	17.0	
	630	17.0	17.5	17.2 <sub>4</sub>	



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Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	631	17.0	17.0	17.0	
	632	17.5	17.5	17.5	
	633	17.5	17.5	17.5	
	634	17.0	17.0	17.0	
	635	17.0	17.0	17.0	
	636	17.0	17.0	17.0	
	637	16.5	16.5	16.5	
	638	17.0	17.0	17.0	
	638(a)	18.0	18.0	18.0	
✓	639	17.0	17.0	17.0	
	640	17.5	17.5	17.5	
	641	17.0	17.5	17.2	
✓	642	16.5	16.5	16.5	
✓	643	18.0	18.0	18.0	
✓	644	17.5	17.5	17.5	
✓	645	18.0	18.0	18.0	
✓	646	17.0	17.0	17.0	
✓	647	17.5	17.0	17.2	
	648	16.5	17.0	16.7	
	649	17.0	17.0	17.0	Nebraska?
	650	17.5	17.5	17.5	
	651	17.0	17.0	17.0	
	652	17.5	17.5	17.5	
	653	17.0	17.0	17.0	
	654	17.5	17.5	17.5	
	655	17.5	17.5	17.5	
	656	17.0	17.0	17.0	
	657	17.0	17.0	17.0	
	658	17.5	17.5	17.5	
	659	17.5	17.5	17.5	
✓	660	17.0	17.0	17.0	



16040					
Catalogue No.	Current No.	Magn. 1	Magn. 2	Mean	Remarks
✓	661	17.5	17.5	17.5	Nebula?
✓	662	17.5	17.5	17.5	Nebula?
✓	663	17.5	17.5	17.5	Nebula?
✓	664	17.0	17.0	17.0	
✓	665	17.5	17.5	17.5	
✓	666	17.5	17.5	17.5	Nebula?
✓	667	17.0	17.5	17.2 <sub>5</sub>	
✓	668	17.5	18.0	17.7	Nebula?
✓	669	17.0	17.0	17.0	Nebula?
✓	670	17.5	18.0	17.7	
✓	671	17.5	17.5	17.5	
✓	672	17.0	17.5	17.2 <sub>5</sub>	
✓	673	17.0	17.5	17.2 <sub>5</sub>	Nebula
✓	674	18.0	17.5	17.7	Nebula?
	675	17.0	17.5	17.2 <sub>5</sub>	Nebula?
	676	17.5	18.0	17.7	
	677	17.5	17.5	17.5	
	678	17.0	17.0	17.0	
	679	17.0:	17.0:	17.0	Attached to 680
	680	16.5:	16.0	16.2 <sub>5</sub>	Attached to 679
✓	681	16.5	16.0	16.2 <sub>5</sub>	
✓	682	17.0	16.5	16.7	
✓	683	16.5:	16.5	16.5	Bright star close
✓	684	17.5	17.5	17.5	
✓	685	17.5	17.5	17.5	
✓	686	17.0	16.0	16.0	
	687	17.0	17.0	17.0	
	688	17.5	17.5	17.5	
	689	17.5	17.5	17.5	
	690	17.0	17.0	17.0	



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Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	691	18.0	18.0	18.0	
	692	17.5	17.5	17.5	
693-713	693	17.5	17.5	17.5	
outside 9 sq.	694	17.0	16.5	16.7	
degrees	695	17.0	17.0	17.0	
	696	17.0	17.5	17.2	
	697	17.0	17.0	17.0	
	698	17.5	17.5	17.5	
	699	17.0	17.0	17.0	
	700	17.5	17.5	17.5	
	701	17.0	17.0	17.0	
	702	17.5	17.5	17.5	
	703	16.0	16.5	16.2	
	704	17.5	17.5	17.5	
	705	18.0	18.0	18.0	
	706	17.5	17.5	17.5	
	707	17.5	17.5	17.5	
	708	17.0	16.5	16.7	
	709	17.0	17.5	17.2	
	710	17.0	17.5	17.2	
	711	17.0	17.0	17.0	
	712	17.0	16.5	16.7	
	713	17.0	17.0	17.0	
	714	17.0	17.5	17.2	Helix?
✓	715	17.5	18.0	17.7	
	716	17.5	18.0	17.7	
	717	17.5	17.5	17.5	
	718	17.0	17.5	17.2	
✓	719	17.0	17.5	17.2	
✓	720	17.0	17.5	17.2	



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Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	721	17.0	17.0	17.0	
✓	722	17.0	17.5	17.2 <sub>5</sub>	Helula?
✓	723	17.0	16.5	16.7	
✓	724	17.0	17.5	17.2 <sub>5</sub>	
✓	725	17.5	18.0	17.7	
	726	17.5	17.5	17.5	
727-841 outside 9 sq. degrees	727	17.0	17.5	17.2 <sub>5</sub>	
	728	17.5	18.0	17.7	
	729	17.5	17.5	17.5	
	730	17.0	17.0	17.0	
	731	17.0	16.5	16.7	
	732	17.0	17.0	17.0	
	733	17.5	18.0	17.7	
	734	16.5	16.0	16.2 <sub>5</sub>	
	735	17.5	18.0	17.7	
	736	17.5	17.5	17.5	
	737	17.5	17.5	17.5	
	738	17.5	17.5	17.5	
	739	17.5	17.5	17.5	
	740	17.0	17.0	17.0	
	741	17.5	17.5	17.5	Helula?
	742	17.5	18.0	17.7	
	743	17.0	17.0	17.0	Helula?
	744	17.0	17.0	17.0	
	745	17.0	17.5	17.2 <sub>5</sub>	
	746	17.5	18.0	17.7	
	747	17.5	18.0	17.7	
	748	17.5	17.5	17.5	
	749	17.5	17.5	17.5	
	750	17.5	18.0	17.7	



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Catalogue No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks

751	17.5	17.5	17.5
752	17.0	17.0	17.0
753	17.0	17.0	17.0
754	17.0	17.5	17.2
755	17.5	17.5	17.5
756	17.0	17.5	17.2
757	17.5	17.5	17.5
758	16.5	16.5	16.5
759	17.5	17.5	17.5
760	17.5	17.5	17.5
761	17.0	17.0	17.0
762	17.0	17.0	17.0
763	17.0	17.0	17.0
764	17.0	17.0	17.0
765	17.5	17.5	17.5
766	17.0	17.0	17.0
767	17.5	18.0	17.7
768	17.0	17.5	17.2
769	17.0	17.0	17.0
770	17.0	17.0	17.0
771	18.0	18.0	18.0
772	17.5	17.5	17.5
773	17.0	17.0	17.0
774	17.0	17.0	17.0
775	17.5	17.5	17.5
776	17.0	17.5	17.2
777	17.5	17.5	17.5
778	17.0	17.5	17.2
779	17.0	17.0	17.0
780	17.5	17.5	17.5

Nebula?

Nebula?



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Catalogue No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks  
Nebula?

781	17.5	17.5	17.5
782	17.5	17.0	17.2
783	17.0	17.5	17.2
784	17.5	17.5	17.5
785	17.0	17.0	17.0
786	17.5	17.5	17.5
787	17.0	17.0	17.0
788	17.5	17.5	17.5
789	17.5	18.0	17.7
790	17.0	17.0	17.0
791	16.5	16.5	16.5
792	17.0	17.0	17.0
792a	17.5	17.5	17.5
793	17.5	17.5	17.5
794	17.0	17.0	17.0
795	17.5	18.0	17.7
796	17.5	17.5	17.5
797	17.5	17.5	17.5
798	17.0	17.5	17.2
799	17.5	18.0	17.7
800	17.0	17.0	17.0
801	16.0	16.0	16.0
802	17.0	17.0	17.0
803	17.5	17.5	17.5
804	17.5	17.5	17.5
805	16.5	16.5	16.5
806	17.0	17.5	17.2
807	17.0	17.0	17.0
808	17.5	18.0	17.7
809	16.5	16.5	16.5
810	17.5	18.0	17.7

Nebula?

Nebula?

Bright star attached

Nebula?

Nebula?



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Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	811	17.0	17.0	17.0	
	812	17.0	17.5	17.2 <sub>4</sub>	
	813	16.5	17.0	16.7	
	814	17.5	17.5	17.5	
	815	17.0	17.5	17.2 <sub>4</sub>	
	816	17.0	17.5	17.2 <sub>4</sub>	
	817	16.5	16.5	16.5	
	818	17.5	17.5	17.5	Nebula?
	819	17.0	17.0	17.0	
	820	17.0	17.5	17.2 <sub>4</sub>	
	821	16.5	16.5	16.5	
	822	16.5	16.5	16.5	
	823	17.0	17.5	17.2 <sub>4</sub>	
	824	18.0	18.0	18.0	
	825	17.0	17.0	17.0	Nebula?
	826	17.5	17.5	17.5	"
	827	17.0	17.5	17.2 <sub>4</sub>	
	828	17.5	18.0	17.7	Nebula?
	829	16.5	17.0	16.7	
	830	17.0	17.0	17.0	
	831	16.5	17.0	16.7	
	832	17.0	17.0	17.0	
	833	17.0	17.5	17.2 <sub>4</sub>	
	834	17.5	18.0	17.7	
	835	17.0	17.0	17.0	
	836	17.0	17.0	17.0	Nebula?
	837	17.0	17.5	17.2 <sub>4</sub>	
	838	16.5	17.0	16.7	
	839	16.5	17.0	16.7	Nebula?
	840	17.0	17.0	17.0	"



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Catalogue No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	841	17.0	17.5	17.2	
✓ N. 4177		15.0	15.0	15.0	
✓ I. 785		15.0	15.0	15.0	
✓ I. 786		14.5	15.0	14.7	



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Catalog No.	Current No.	Mag.1	Mag.2	Mean	Remarks
<i>100.1 - 40</i>	1	17.0	17.0	17.0	
<i>outside 9</i>	2	16.5	17.0	16.7	
<i>sq. degrees.</i>	3	16.0	16.5	16.2	
<i>Also, all</i>	4	17.0	17.0	17.0	
<i>nebulae</i>	5	17.0	17.0	17.0	
<i>checked in</i>	6	17.5	17.5	17.5	
<i>red are outside</i>	7	15.5	16.0	15.7	
<i>9 sq. degrees.</i>	8	17.0	17.0	17.0	
	9	15.5	16.0	15.7	
	10	18.0	18.0	18.0	
	11	17.5	17.5	17.5	
	12	18.0	17.5	17.7	
	13	18.0	17.5	17.7	
	14	17.5	17.5	17.5	
	15	17.0	17.0	17.0	
	16	17.5	17.5	17.5	
	17	16.0	16.0	16.0	
	18	17.5	17.5	17.5	
	19	16.5	16.5	16.5	
	20	17.5	17.5	17.5	
	21	16.5	16.5	16.5	
	22	17.0	17.0	17.0	
	23	17.5	17.0	17.2	
	24	18.0	18.0	18.0	
	25	17.5	17.0	17.2	
	26	18.0	18.0	18.0	
	27	18.0	18.0	18.0	
	28	17.5	17.5	17.5	
	29	18.5	18.0	18.2	
	30	18.0	18.0	18.0	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	31	16.5	17.0	16.5	
	32	16.5	16.5	16.5	
	33	17.5	17.5	17.5	
	34	18.0	18.0	18.0	
	35	17.0	17.0	17.0	
	36	18.0	17.5	17.5	
	37	18.0	18.0	18.0	
	38	18.0	18.0	18.0	
	39	17.5	17.5	17.5	Helula?
	40	18.0	18.0	18.0	
	41	17.5	17.0	17.2	
	42	17.5	17.0	17.2	
	43	18.0	18.0	18.0	
	44	17.5	17.5	17.5	
	45	16.5	17.0	16.5	
	46	16.5	16.5	16.5	
	47	17.5	17.5	17.5	
48-86	48	18.0	17.5	17.5	
outside 9 sq.	49	18.5	18.0	18.2	
	50	17.0	17.0	17.0	
	51	17.5	17.5	17.5	
	52	16.5	16.0	16.2	
	53	17.5	17.5	17.5	
	54	18.0	17.5	17.5	
	55	17.5	17.0	17.2	
	56	17.5	17.0	17.2	
	57	17.5	17.0	17.2	
	58	17.5	17.0	17.2	
	59	16.5	16.5	16.5	
	60	16.5	16.5	16.5	



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Catalog No. Current No. Mag.1 Mag.2 Mean Remarks

61	17.5	17.0	17.2	
62	17.5	17.0	17.2	
63	17.0	16.5	16.7	
64	17.5	17.5	17.5	
65	17.5	17.5	17.5	
66	18.0	17.5	17.7	
67	17.5	17.5	17.5	
68	17.5	17.5	17.5	
69	18.0	17.5	17.7	
70	17.5	17.0	17.2	
71	17.5	17.0	17.2	
72	17.0	17.0	17.0	
73	17.5	17.5	17.5	
74	16.0	15.5	15.7	
75	17.5	17.0	17.2	
76	17.5	17.5	17.5	
77	18.0	18.0	18.0	
78	17.0	17.0	17.0	
79	17.5	17.5	17.5	
80	17.5	17.0	17.2	
81	17.0	17.0	17.0	
82	17.5	17.0	17.2	
83	17.5	17.5	17.5	
84	18.0	18.0	18.0	
85	17.0	17.0	17.0	
86	18.0	18.0	18.0	↑
87	17.5	17.5	17.5	
88	16.0	16.0	16.0	
89	17.0	17.5	17.2	
90	17.5	17.5	17.5	



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Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

	91	17.5	17.5	17.5	
	92	17.5	17.5	17.5	
	93	17.5	17.5	17.5	
	94	17.0	17.0	17.0	
	95	17.5	17.0	17.2 <sub>4</sub>	
✓	96	18.5	18.5	18.5 <sub>4</sub>	
✓	97	17.5	17.5	17.5	
✓	98	17.5	17.0	17.2 <sub>4</sub>	
✓	99	16.5	16.5	16.5	
✓	100	17.5	17.5	17.5 <sub>4</sub>	
	101	18.0	17.5	17.7	
	102	18.5	18.0	18.2	
	103	18.0	18.0	18.0	
	104	17.5	17.5	17.5	
	105	17.5	17.0	17.2 <sub>4</sub>	
	106	17.0	17.0	17.0	
	107	17.5	17.0	17.2 <sub>4</sub>	
	108	17.0	17.0	17.0	
	109	17.5	17.5	17.5	
	110	17.0	17.5	17.2 <sub>4</sub>	
	111	18.0	17.5	17.7	
112-144	112	17.5	17.0	17.2 <sub>4</sub>	
outside 9 <sup>h</sup> 0'	113	17.0	17.0	17.0	
	114	18.0	17.5	17.7	
	115	18.5	18.0	18.2 <sub>4</sub>	
	116	17.0	17.0	17.0	
	117	18.0	18.0	18.0	
	118	17.0	17.0	17.0	
	119	18.5	18.5	18.5	
	120	17.0	16.5	16.7	

attached to star



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	121	17.5	17.0	17.2	
	122	17.5	17.0	17.2	
	123	17.0	16.5	16.7	
	124	17.5	17.5	17.5	
	125	17.0	17.0	17.0	
	126	17.5	17.0	17.2	
	127	17.5	17.0	17.2	
	128	18.0	17.5	17.7	
	129	17.5	17.0	17.2	
	130	18.0	17.5	17.7	
	131	18.0	17.5	17.7	
	132	18.5	18.0	18.2	
	133	18.5	18.0	18.2	
	134	18.0	17.5	17.7	
	135	18.0	17.5	17.7	
	136	17.5	17.0	17.2	
	137	18.0	17.5	17.7	
	138	17.0	17.0	17.0	
	139	17.0	17.0	17.0	
	140	17.0	16.5	16.7	
	141	18.0	17.5	17.7	
	142	17.0	17.0	17.0	
	143	18.0	17.5	17.7	
	144	18.0	17.5	17.7	
	145	17.5	17.0	17.2	
	146	18.0	17.5	17.7	
✓	147	17.5	17.0	17.2	
✓	148	18.0	17.5	17.7	
✓	149	17.5	17.5	17.5	
✓	150	17.5	17.0	17.2	



15938

Catalog No. Current No. Mag.1 Mag.2 Mean

Remarks

✓	151	17.5	17.5	17.5 <sub>↓</sub>
✓	152	18.0	17.5	17.7
✓	153	17.0	17.0	17.0
✓	154	18.0	18.0	18.0
✓	155	17.5	17.5	17.5
✓	156	16.5	16.0	16.2 <sub>↑</sub>
	157	17.5	17.5	17.5
	158	17.5	17.0	17.2 <sub>↓</sub>
	159	18.0	17.5	17.7
	160	18.0	17.5	17.7
	161	17.5	17.0	17.2 <sub>↓</sub>
	162	18.0	17.5	17.7
	163	18.0	18.0	18.0
	164	17.5	17.5	17.5
	165	18.5	18.5 <sub>↑</sub>	18.5
	166	16.5 <sub>:</sub>	17.0	16.7 <sub>:</sub>
	167	14.0	14.5	14.2 <sub>↓</sub>
	168	17.5	17.5	17.5
	169	17.5	17.0	17.2 <sub>↓</sub>
	170	17.0	17.0	17.0
	171	18.0	17.5	17.7
	172	17.5	17.5	17.5
	173	18.0	17.5 <sub>:</sub>	17.7
	174	18.0	18.0 <sub>↑</sub>	18.0
	175	18.5	18.0	18.2 <sub>↓</sub>
	176	18.0	17.5	17.7
	177	17.5	17.5	17.5
	178	17.5	17.5	17.5
	179	17.5	17.5	17.5
	180	17.5	17.5 <sub>↑</sub>	17.5

Nebula?

Nebula?  
Bright star close



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15938

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	181	17.5	17.5	17.5	
	182	18.0	17.5	17.7	
	183	17.5	17.5	17.5	
	184	17.5	17.5	17.5	
	185	17.0	17.0	17.0	
	186	17.5	17.5	17.5	
	187	17.5	17.5	17.5	
	188	17.0	17.0	17.0	
	189	17.0	17.0	17.0	
	190	18.0	17.5	17.7 <sup>↓</sup>	
	191	17.5	17.5	17.5	
	192	17.5	17.5	17.5	
	193	17.5	17.5	17.5	
	194	17.0	17.0	17.0	
	195	17.5	17.5	17.5	
	196	17.5	17.5	17.5	
	197	17.0	17.0	17.0	
	198	17.5	17.0	17.2 <sub>4</sub>	
	199	17.0	17.0	17.0	
	200	17.5	17.0	17.2 <sub>4</sub>	
	201	16.5	16.5	16.5	
	202	17.5	17.5	17.5	
	203	18.0	17.5	17.7	
	204	17.5	17.0	17.2 <sub>4</sub>	
	205	17.0	17.0	17.0	
	206	16.5	16.5	16.5	
	207	17.5	17.0	17.2 <sub>4</sub>	
	208	17.5	17.0	17.2 <sub>4</sub>	
	209	17.5	17.5	17.5	
	210	17.5	17.5	17.5 <sup>↓</sup>	

190-275 —  
outside 9 sq.°



15938

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	211	18.0	17.5	17.5↓	
	212	18.0	17.5	17.5	
	213	17.5	17.5	17.5	
	214	17.5	17.5	17.5	
	215	18.0	18.0	18.0	
	216	18.0	17.5	17.5	
	217	18.0	17.5	17.5	
	218	17.5	17.5	17.5	
	219	17.5	17.5	17.5	
	220	18.0	17.5	17.5	
	221	18.5	18.0	18.2 <sub>4</sub>	
	222	17.0	17.0	17.0	Nebula?
	223	17.5	17.0	17.2 <sub>4</sub>	
	224	17.5	17.0	17.2 <sub>4</sub>	
	225	17.0	17.0	17.0	
	226	17.5	17.0	17.2 <sub>4</sub>	
	227	17.5	17.0	17.2 <sub>4</sub>	
	228	17.5	17.0	17.2 <sub>4</sub>	
	229	17.5	17.5	17.5	
	230	16.5	16.5	16.5	
	231	17.5	17.0	17.2 <sub>4</sub>	
	232	17.5	17.5	17.5	
	233	17.5	17.5	17.5	
	234	15.5	15.5	15.5	
	235	17.0	17.0	17.0	
	236	16.0	15.5	16.5	
	237	17.5	17.0	17.5	
	238	18.0	17.5	17.5	
	239	16.5	16.5	16.5	
	240	17.0	17.0	17.0↓	



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15938

Catalog No. current No. Mag. 1 Mag. 2 Mean

Remarks

241	16.5	17.0	16.5 ↓
242	17.5	17.0	17.2
243	17.0	16.5	16.7
244	17.5	17.0	17.2
245	17.0	17.0	17.0
246	17.5	17.5	17.5
247	18.0	17.5	17.7
248	17.5	17.5	17.5
249	17.5	17.5	17.5
250	17.5	17.5	17.5
251	17.0	17.0	17.0
252	16.5	16.5	16.5
253	17.5	17.5	17.5
254	18.0	17.5	17.7
255	18.5	18.0	18.2
256	17.5	17.5	17.5
257	17.5	17.5	17.5
258	17.5	17.5	17.5
259	17.5	17.5	17.5
260	17.5	17.0	17.2
261	18.0	18.0	18.0
262	17.5	18.0	17.7
263	18.5	18.0	18.2
264	16.5	16.5	16.5
265	17.5	17.5	17.5
266	18.0	17.5	17.7
267	17.5	17.0	17.2
268	18.0	18.0	18.0
269	17.0	16.5	16.7
270	17.5	17.5	17.5 ↓



15938

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	271	18.0	17.5	17.7 <sub>↓</sub>	
	272	17.5	17.0	17.2 <sub>↓</sub>	
	273	17.5	17.5	17.5	
	274	17.5	17.5	17.5	
	275	17.0	17.5	17.2 <sub>↑</sub>	
	276	18.0	18.0	18.0	
	277	17.0	17.0	17.0	
	278	17.5	17.0	17.2 <sub>↓</sub>	
	279	17.5	17.5	17.5	
	280	17.5	17.0	17.2 <sub>↓</sub>	
	281	17.0	17.0	17.0	
	282	18.0	17.5	17.7	Nebula?
	283	17.0	17.5	17.2 <sub>↓</sub>	
	284	18.0	18.0	18.0	
	285	17.0	17.0	17.0	
	286	17.0	17.0	17.0	
	287	17.5	17.5	17.5	
	288	17.5	18.0	17.7	
	289	17.0	17.0	17.0	
	290	17.5	17.5	17.5	
	291	17.5	17.5	17.5	
	292	17.5	17.0	17.2 <sub>↓</sub>	
	293	17.0	16.5	16.7	
	294	17.5	17.0	17.2 <sub>↓</sub>	
	295	17.5	17.5	17.5	
	296	18.0	17.5	17.7	
	297	18.0	17.5	17.7	
	298	18.0	17.5	17.7	
	299	17.5	17.0	17.2 <sub>↓</sub>	
	299a	17.0	16.5	16.7	
	300	17.0	17.0	17.0	



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15938

Catalog No. Current No. Mag.1 Mag.2 Mean

Remarks

301-328  
outside 9 sq.°

301	17.5	17.0	17.2 <sub>v</sub>
302	17.5	17.5	17.5
303	16.5	16.5	16.5
304	17.0	17.0	17.0
305	16.5	16.5	16.5
306	16.5	16.5	16.5
307	17.0	17.0	17.0
308	16.5	16.5	16.5
309	16.5	17.0	16.7
310	17.5	17.5	17.5
311	17.5	17.5	17.5
312	17.5	17.0	17.2 <sub>v</sub>
313	17.0	17.0	17.0
314	17.0	17.0	17.0
315	18.0	18.0	18.0
316	16.0	15.5	15.7
317	16.0	15.5	15.7
318	17.0	17.0	17.0
319	17.0	16.5	16.7
320	15.5	15.5	15.5
321	15.5	15.5	15.5
322	18.0	17.5	17.7
323	17.0	16.5	16.7
324	18.0	17.5	17.7
325	18.0	17.5	17.7
326	17.5	17.0	17.2 <sub>v</sub>
327	18.0	17.5	17.7
328	17.5	17.5	17.5 <sub>↑</sub>
329	17.0	17.0	17.0
330	18.0	18.0	18.0

Nebula?

Nebula?

Nebula?

Close to a star



15938

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	331	17.0	16.5	16.7 <sub>v</sub>	
✓	332	17.0	17.0	17.0 <sub>v</sub>	
	333	17.5	17.5	17.5	
	334	18.0	18.0	18.0	
	335	18.5	18.0	18.2 <sub>v</sub>	Helix?
	336	17.5	17.5	17.5	
	337	17.5	17.0	17.2 <sub>v</sub>	
	338	17.5	17.0	17.2 <sub>v</sub>	
	339	17.0	17.0	17.0	
	340	16.5	16.5	16.5	
	341	17.0	16.5	16.7 <sub>v</sub>	
	342	17.5	17.5	17.5	
	<del>343</del>	17.5	17.0	17.2 <sub>v</sub>	
	344	15.5	16.0	15.7 <sub>v</sub>	
	345	17.0	17.5	17.2 <sub>v</sub>	
	346	17.5	17.0	17.2 <sub>v</sub>	
	347	17.0	16.5	16.7 <sub>v</sub>	
	348	17.5	17.0	17.2 <sub>v</sub>	
	349	17.5	16.5	16.7 <sub>v</sub>	
	350	17.5	17.5	17.5	
	351	17.5	17.5	17.5	
	352	17.5	17.5	17.5	
	353	17.0	17.0	17.0	
	354	16.5	16.0	16.2 <sub>v</sub>	
	355	17.5	17.5	17.5	
	356	18.0	17.5	17.7 <sub>v</sub>	
	357	17.5	17.5	17.5	
	358	17.0	16.5	16.7 <sub>v</sub>	
	359	17.5	17.0	17.2 <sub>v</sub>	
	360	17.5	17.0	17.2 <sub>v</sub>	



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15938

Catalog No. Current No. Mag.1 Mag.2 Mean

Remarks

	361	17.5	17.0	17.2	
	362	16.5	16.5	16.5	
	363	17.5	17.5	17.5	
	364	17.0	17.0	17.0	
	365	17.0	17.0	17.0	
	366	17.5	17.5	17.5	
	367	16.5	15.5	15.5	
	368	17.5	17.5	17.5	
	369	17.5	17.5	17.5	
	370	17.5	17.5	17.5	
	371	18.0	17.5	17.5	
	372	17.5	17.5	17.5	
✓	373	17.0	17.0	17.0	
✓	374	17.5	17.5	17.5	
✓	375	18.0	17.5	17.5	
✓	376	17.5	17.5	17.5	
✓	377	17.0	16.5	16.5	
✓	378	17.0	17.0	17.0	Nebula??
✓	379	17.5	17.5	17.5	
✓	380	18.0	18.0	18.0	
✓	381	17.0	17.0	17.0	
✓	382	17.0	17.0	17.0	
✓	383	17.0	16.5	16.5	
✓	384	17.0	16.5	16.5	
✓	385	17.0	16.5	16.5	
✓	385(a)	17.5	17.0	17.2	
✓	386	17.0	17.0	17.0	
	387	17.0	17.0	17.0	
	388	17.0	17.0	17.0	
	389	17.0	17.0	17.0	
	390	17.5	17.5	17.5	



15938

Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

391	18.0	17.5	17.5	
392	17.5	17.5	17.5	
393	17.0	16.5	16.5	
394	18.0	18.0	18.0	
395	17.5	17.0	17.2	
396	17.5	17.0	17.2	
397	17.0	17.0	17.0	
398	18.0	17.5	17.5	
399	17.0	16.5	16.5	
400	17.5	17.5	17.5	
401	17.0	17.0	17.0	
402	17.5	17.5	17.5	
403	17.5	17.5	17.5	
404	17.5	17.5	17.5	
405	17.5	17.5	17.5	
406	17.5	17.5	17.5	
407	17.5	17.0	17.2	
408	18.0	17.5	17.5	
409	17.0	16.5	16.5	
410	17.0	17.0	17.0	
411 <sup>a</sup>	17.5	17.0	17.2	
	18.0	18.0	18.0	
412	17.5	17.5	17.5	
412 <sup>a</sup>	17.0	17.0	17.0	
413	17.5	17.0	17.2	
414	18.0	17.5	17.5	
415	17.0	17.0	17.0	
416	17.0	17.0	17.0	
417	17.5	17.5	17.5	
418	18.0	18.0	18.0	
419	16.5	16.5	16.5 <sup>v</sup>	
420	17.5	17.5	17.5	

Nebula?

419-441

outside 9 sq.°



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15938

Catalog

No. Current No. Mag. 1 Mag. 2 Mean

Remarks

421 17.0 17.0 17.0

422 16.5 16.5 16.5

423 17.5 17.0 17.2

424 17.5 17.5 17.5

425 18.0 17.5 17.7

426 16.5 16.5 16.5

427 16.0 15.5 15.7

428 17.0 16.5 16.7

star attached

429 17.0 17.0 17.0

430 18.0 17.5 17.7

Nebula??

431 17.5 17.5 17.5

432 16.5 16.5 16.5

433 17.0 17.0 17.0

434 17.5 17.0 17.2

435 17.0 16.5 16.7

436 17.5 17.5 17.5

437 17.0 16.5 16.7

438 17.0 16.5 16.7

439 17.0 16.5 16.7

440 17.5 17.5 17.5

Nebula??

441 17.0 16.5 16.7

✓ H 3115 (A.A.)

✓ 3133 16.5 16.0 16.2

✓ 3138 16.5 16.5 16.5

✓ 3139 15.5 15.5 15.5

✓ 3142 15.0 15.0 15.0

✓ 3143 15.5 15.5 15.5

✓ 3145 (A.A.)

✓ I 573 15.5 15.5 15.5

Star attached







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1544915449

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
100.1-77	1	17.0	17.5	17.2 <sub>4</sub>	Nebrula?
outside 9 sq.°	2	17.5	17.5	17.5	Nebrula?
Also, numbers	3	17.0	17.0	17.0	
checked in	4	16.5	17.0	16.7	
red are outside	5	16.0	16.0	16.0	
9 sq. degrees.	6	17.0	17.5	17.2 <sub>4</sub>	
	7	17.0	17.5	17.2 <sub>4</sub>	
	8	17.5	17.5	17.5	
	9	17.0	17.0	17.0	
	10	15.5	15.5	15.5	
	11	17.5	17.5	17.5	
	12	17.5	17.0	17.2 <sub>4</sub>	Nebrula?
	13	17.0	17.0	17.0	
	14	17.5	17.5	17.5	
	15	18.0	17.5	17.7 <sub>5</sub>	
	16	17.5	17.0	17.2 <sub>4</sub>	
	17	17.0	17.0	17.0	
	18	17.0	17.0	17.0	
	19	16.5	17.0	16.7	
	20	17.5	17.5	17.5	
	21	17.0	17.0	17.0	
	22	16.0	16.0	16.0	
	23	17.0	17.0	17.0	
	24	17.5	17.5	17.5	
	25	17.0	17.0	17.0	
	26	17.5	17.5	17.5	
	27	17.0	16.0 <sup>5</sup>	16.7	
	28	17.5	17.0	17.2 <sub>4</sub>	
	29	18.0	17.5	17.7 <sub>5</sub>	
	30	17.5	17.0	17.2 <sub>4</sub>	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	31	17.0	17.0	17.0	
	32	17.5	17.0	17.2	
	33	18.0	17.5	17.7	
	34	17.0	17.0	17.0	
	35	16.5	16.5	16.5	
	36	17.0	17.0	17.0	
	37	17.0	17.0	17.0	
	38	17.0	17.0	17.0	
	39	17.0	16.5	16.7	
	40	16.5	16.5	16.5	
	41	17.0	17.0	17.0	Helix?
	42	17.0	17.0	17.0	"
	43	18.0	17.5	17.7	"
	44	17.0	17.0	17.0	"
	45	17.5	17.5	17.5	"
	46	18.0	17.5	17.7	
	47	17.0	16.5	16.7	
	48	17.5	17.0	17.2	
	49	16.5	16.5	16.5	
	50	16.5	16.5	16.5	
	51	17.5	17.0	17.2	
	52	17.0	17.0	17.0	
	53	17.5	17.0	17.2	
	54	17.0	17.0	17.0	
	55	17.0	16.5	16.7	
	56	16.5	16.5	16.5	
	57	17.0	17.0	17.0	
	58	17.0	17.0	17.0	
	59	17.5	17.0	17.2	
	60	17.0	17.0	17.0	



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Catalog No.

Current No.

Mag.1

Mag.2

Mean

Remarks

	61	17.0	16.5	16.7	
	62	17.0	16.5	16.7	
	63	17.5	17.5	17.5	
	64	18.0	17.5	17.7	
	65	17.5	17.0	17.2 <sub>4</sub>	
	66	17.5	17.0	17.2 <sub>4</sub>	
	67	16.5	16.5	16.5	
	68	17.0	17.0	17.0	
	69	18.0	17.5	17.7	
	70	17.5	17.5	17.5	
	71	17.0	16.5	16.7	
	72	17.5	17.0	17.2 <sub>4</sub>	
	73	17.0	17.0	17.0	
	74	16.5	16.5	16.5	
	75	17.0	17.0	17.0	
	76	17.5	17.5	17.5	
	77	18.0	17.5	17.7	Melrula?
	78	18.0	17.5	17.7	
	79	17.0	16.5	16.7	
	80	17.0	17.0	17.0	
	81	17.0 <sup>5</sup>	17.5	17.5	
	82	17.5	17.0	17.2 <sub>4</sub>	
✓	83	17.5	17.5	17.5	
✓	84	18.0	17.5	17.7	Melrula?
✓	85	17.5	17.0	17.2 <sub>4</sub>	
✓	86	17.5	17.0	17.2 <sub>4</sub>	
✓	87	17.0	17.0	17.0	
✓	88	17.5	17.0	17.2 <sub>4</sub>	
✓	89	18.0	17.5	17.7	
✓	90	17.0	17.5	17.2 <sub>4</sub>	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	91	17.0	17.0	17.0	
✓	92	17.5	17.5	17.5	
✓	93	17.5	17.0	17.2	
	94	17.5	17.5	17.5	
	95	18.0	17.5	17.7	
	96	17.5	17.5	17.5	
	97	17.5	17.0	17.2	
	98	18.0	17.5	17.7	
	99	18.0	17.5	17.7	
	100	18.0	17.5	17.7	
	101	17.5	17.5	17.5	
	102	17.0	17.0	17.0	
	102 <sup>a</sup>	17.0			
	103	17.0	16.5	16.7	
	104	16.5	16.5	16.5	
	105	17.0	16.5	16.7	
	106	<del>17.0</del> 16.5	<del>17.0</del> 16.5	<del>17.0</del> 16.5	
	107	17.0	17.5	17.2	
	108	17.0	17.0	17.0	
	109	17.5	17.5	17.5	
✓	110	17.0	17.5	17.2	
✓	111	16.0	16.5	16.2	
✓	112	16.5	16.5	16.5	
✓	113	17.0	17.0	17.0	
✓	114	16.5	16.5	16.5	
	115	18.0	17.5	17.7	
	116	17.5	17.0	17.2	
	117	18.0	17.5	17.7	
	118	18.0	17.5	17.7	
	119	17.5	17.5	17.5	
	120	17.0	17.0	17.0	



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15449

Catalog No.

Current No.

Mag.1

Mag.2

Mean

Remarks

	121	17.0	17.0	17.0	
	122	17.0	17.5	17.2	
	123	17.5	17.0	17.2	
	124	17.0	17.0	17.0	
	125	17.5	17.5	17.5	
✓	126	16.5	16.5	16.5	
✓	127	17.0	17.0	17.0	
✓	128	17.0	17.0	17.0	
✓	129	16.5	16.5	16.5	
✓	130	18.0	17.5	17.7	
✓	131	18.0	17.5	17.7	
✓	132	16.5	16.5	16.5	
	133	17.5	17.0	17.2	
	134	17.0	16.5	16.7	
	135	16.5	16.0	16.2	
	136	17.5	17.0	17.2	
✓	137	17.5	17.0	17.2	
✓	138	17.5	17.5	17.5	
✓	139	16.0	16.0	16.0	
✓	140	17.5	17.0	17.2	
✓	141	17.5	17.0	17.2	
✓	142	17.5	17.5	17.5	
	143	17.5	17.5	17.5	
	144	16.5	16.5	16.5	
	145	18.0	17.5	17.7	
	146	17.0	17.0	17.0	
	147	16.5	16.0	16.2	
✓	148	17.0	17.0	17.0	
	149	17.0	17.0	17.0	
	150	17.5	17.0	17.2	



15449

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	151	17.5	17.5	17.5	
	152	17.0	17.0	17.0	
	153	17.5	17.0	17.2	
	154	17.5	17.0	17.2	
	155	17.5	17.0	17.2	
	156	15.5	15.5	15.5	
	157	15.5	15.5	15.5	
	158	17.0	17.0	17.0	
	159	17.0	17.0	17.0	
	160	16.5	16.5	16.5	
	161	17.5	17.5	17.5	
✓	162	17.0	17.0	17.0	✓
	163	17.0	17.0	17.0	
✓	164	16.5	16.5	16.5	✓
165-258	165	17.5	17.5	17.5	
outside 9 sq°	166	16.5	17.0	16.7	
	167	17.5	17.5	17.5	
	168	16.5	16.5	16.5	
	169	16.5	16.5	16.5	
	170	17.0	17.0	17.0	
	171	17.0	17.0	17.0	
	172	17.5	17.0	17.2	
	173	17.0	16.5	16.7	
	174	16.5	16.5	16.5	
	175	16.5	17.0	16.7	
	176	16.5	17.0	16.7	
	177	16.5	16.5	16.5	
	178	17.5	17.0	17.2	
	179	17.5	17.5	17.5	
	180	17.0	17.0	17.0	



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15449

Catalog No.	Current No.	Mag.1	Mag.2	Mean	Remarks
	181	17.5	17.0	17.2	
	182	17.0	16.5	16.7	
	183	16.0	16.0	16.0	
	184	16.5	16.5	16.5	
	185	17.0	17.0	17.0	
	186	16.5	16.5	16.5	
= N4514	= 187	16.0			
	188	18.0	17.5	17.7	
	189	17.0	17.5	17.2	
	190	17.5	17.5	17.5	
	191	17.5	17.0	17.2	
	192	18.0	17.5	17.7	
	193	17.5	17.0	17.2	
	194	17.0	16.5	16.7	
	195	17.5	17.5	17.5	
	196	17.5	17.5	17.5	
	197	17.5	17.5	17.5	
	198	17.0	17.0	17.0	
	199	17.0	17.0	17.0	Nelula?
	200	17.5	17.5	17.5	
	201	17.5	17.5	17.5	
	202	16.5	16.5	16.5	
	203	17.5	17.5	17.5	
	204	17.0	17.5	17.2	
	205	17.5	17.0	17.2	
	206	18.0	17.5	17.7	
	207	18.0	17.5	17.7	
	208	17.0	17.0	17.0	
	209	17.5	17.0	17.2	
	210	17.5	17.5	17.5	



15449

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

211	16.0	16.0	16.0
212	17.5	17.5	17.5
213	17.5	17.5	17.5
214	17.0	17.0	17.0
215	17.0	17.0	17.0
216	17.5	17.5	17.5
217	18.0	17.5	17.5
218	17.5	17.0	17.2
219	17.5	17.0	17.2
220	18.0	17.5	17.5
221	17.5	17.5	17.5
222	17.0	17.0	17.0
223	17.5	17.0	17.2
224	17.0	17.0	17.0
225	17.0	17.0	17.0
226	18.0	17.5	17.5
227	16.5	16.5	16.5
228	16.5	16.5	16.5
229	17.0	17.0	17.0
230	16.5	16.5	16.5
231	17.5	17.0	17.2
232	16.0	16.0	16.0
233	17.5	17.5	17.5
234	16.5	16.5	16.5
235	17.0	17.0	17.0
236	16.5	16.5	16.5
237	17.0	17.0	17.0
238	16.5	16.5	16.5
239	17.0	17.0	17.0
240	17.0	17.0	17.0

Nebula?

Nebula?

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15449

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	241	18.0	17.5	17.7	
	242	17.0	17.0	17.0	
	243	17.0	17.0	17.0	
	244	17.5	17.5	17.5	
	245	17.5	17.0	17.2	
	246	17.5	17.5	17.5	
	247	17.5	17.5	17.5	
	248	17.0	16.5	16.7	
	249	18.0	17.5	17.7	
	250	17.0	17.0	17.0	
	251	16.5	16.5	16.5	
	252	17.5	17.5	17.5	
	253	17.5	17.0	17.2	
	254	No such no.			
	255	17.5	17.0	17.2	
	256	17.0	17.0	17.0	
	257	17.0	17.0	17.0	
	258	17.5	17.5	17.5	
	259	17.5	17.5	17.5	
	260	17.0	17.0	17.0	
	261	17.0	17.0	17.0	
	262	17.0	17.0	17.0	
	263	17.5	17.5	17.5	
	264	17.5	17.5	17.5	Nebrula?
✓	265	17.0	17.0	17.0	Nebrula?
	266	17.5	17.5	17.5	
	267	17.5	17.5	17.5	
	268	16.5	17.0	16.7	
	269	17.5	17.0	17.2	
	270	17.5	17.0	17.2	



15449

Catalog No. Current No.

	Mag. 1	Mag. 2	Mean
271	18.0	17.5	17.5
272	17.5	17.0	17.2
273	18.0	17.5	17.5
274	17.5	17.5	17.5
275	17.5	17.0	17.2
276	17.5	17.0	17.2
277	17.0	17.0	17.0
278	17.0	17.0	17.0
279	17.5	17.5	17.5
280	17.5	17.0	17.2
281	17.5	17.5	17.5
282	17.0	17.0	17.0
283	17.0	17.0	17.0
284	17.0	17.0	17.0
285	18.0	17.5	17.5
286	18.0	17.5	17.5
287	18.0	17.25	17.5
288	17.5	17.5	17.5
289	17.5	17.5	17.5
290	17.5	17.5	17.5
291 =	I 3593		
292	17.5	17.0	17.2
293	17.5	17.0	17.2
294	18.0	17.5	17.5
295	17.0	17.0	17.0
296	17.5	17.5	17.5
297	17.5	18.0	17.5
298	18.0	18.0	18.0
299	17.5	17.5	17.5
300	18.0	18.0	18.0

Remarks

Nebula?



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Catalog

Mo.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	301	16.5	16.5	16.5	
	302	17.5	17.5	17.5	
	303	17.0	17.0	17.0	
	304	17.0	17.0	17.0	
	305	17.5	18.0	17.5	
	306	18.0	17.5	17.5	
	307	18.0	18.0	18.0	
	308	17.5	17.5	17.5	
	309	17.5	17.0	17.2	
	310	18.0	17.5	17.5	
	311	17.0	17.5	17.2	
	312	18.0	18.0	18.0	
	313	18.0	17.5	17.5	
	314	17.5	18.0	17.5	
	315	18.0	17.5	17.5	
	316	18.0	17.5	17.5	
	317	17.5	17.5	17.5	
	318	17.0	17.0	17.0	
	319	18.0	18.0	18.0	
	320	17.5	18.0	17.5	Nebrula?
	321	17.0	17.0	17.0	
	322	17.5	17.5	17.5	
	323	17.5	18.0	17.5	
	324	17.5	17.5	17.5	
	325	18.0	18.0	18.0	Nebrula?
	326	17.5	17.5	17.5	
	327	17.5	17.5	17.5	
	328	17.5	17.5	17.5	
	329	17.5	18.0	17.5	
	330	17.5	17.5	17.5	



15449  
Catalog No.

Current No. Mag.1 Mag.2 Mean

Remarks

331	18.0	18.0	18.0
332	17.5	17.5	17.5
333	18.0	18.0	18.0
334	17.5	17.5	17.5
335	17.5	17.5	17.5
336	18.0	17.5	17.7
337	17.0	17.0	17.0
338	17.5	17.5	17.5
339	18.0	17.5	17.7
340	17.0	17.0	17.0
341	17.5	17.5	17.5
342	17.0	17.0	17.0
342 <sup>a</sup>	17.0	17.0	17.0
343	17.5	17.5	17.5
344	17.0	17.0	17.0
345	17.0	17.0	17.0
346	17.5	18.0	17.7
347	17.0	17.0	17.0
348	17.5	17.5	17.5
349	18.0	18.0	18.0
350	17.0	17.0	17.0
351	17.0	17.0	17.0
352	16.5	16.5	16.5
353	17.0	17.0	17.0
354	18.0	18.0	18.0
355	18.0	18.0	18.0
356	17.5	17.5	17.5
357	17.5	17.5	17.5
358	17.0	17.5	17.2
359	17.5	17.5	17.5
360	17.0	17.0	17.0

Nebula?



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15449

Catalog No.

Current No. Mag.1 Mag.2 Mean

Remarks

361 17.5 18.0 17.5

362 17.5 17.5 17.5

363 17.5 18.0 17.5

364 17.5 17.5 17.5

365 18.0 18.0 18.0

366<sup>a</sup> 16.0 17.0 17.0

366 17.0 17.0 17.0

366<sup>b</sup> 18.0 17.0 17.2

367 17.5 17.0 17.2

✓ 368 17.0 17.0 17.0

✓ 369 17.5 17.5 17.5

✓ 370 17.0 17.0 17.0

371 17.5 17.5 17.5

372 17.5 18.0 17.5

373 17.5 17.5 17.5

374 18.0 18.0 18.0

375 17.0 17.5 17.2

376 17.5 18.0 17.5

377 17.5 17.5 17.5

378 17.0 17.5 17.2

379 17.0 17.0 17.0

380 17.0 17.0 17.0

I.3337 = ~~381 17.0 17.0 17.0~~

382 17.0 17.0 17.0

383 17.0 16.5 16.5

384 18.0 17.5 17.5

385 17.5 17.5 17.5

385<sup>(a)</sup> 16.5 17.0 17.0

386 17.0 17.0 17.0

I.3302 = ~~387 17.5 17.5 17.5~~388 ~~17.5~~ 16.5 16.5

389 17.5 17.5 17.5

390 17.0 17.0 17.0

Nebula?  
Nebula?

Nebula?



15449

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

	391	17.5	17.5	17.5	
	392	18.0	17.5	17.5	
I. 3399 =	<del>393</del>	<del>17.0</del>	<del>16.5</del>	<del>16.5</del>	
	394	17.5	17.5	17.5	
	395	18.0	18.0	18.0	
✓	396	17.5	18.0	17.5	
✓	397	17.5	17.0	17.2	
✓	398	17.0	17.0	17.0	
✓	399	17.0	17.5	17.2	
✓	400	17.5	18.0	17.5	
✓	401	<del>16.5</del>	<del>17.0</del>	<del>17.0</del>	
	402	17.5	18.0	17.5	
✓	403	17.5	18.0	17.5	
✓	404	17.5	17.5	17.5	
✓	405	17.5	17.0	17.2	
I. 3380 =	<del>406</del>	<del>17.0</del>	<del>17.0</del>	<del>17.0</del>	
	407	17.5	17.5	17.5	
I. 3367 =	<del>408</del>	<del>16.5</del>	<del>16.5</del>	<del>16.5</del>	
I. 3336 =	<del>409</del>	<del>16.0</del>	<del>16.0</del>	<del>16.0</del>	
I. 3362 =	<del>410</del>	<del>17.0</del>	<del>17.0</del>	<del>17.0</del>	
✓	411	17.5	17.0	17.2	
✓	412	18.0	18.0	18.0	
✓	413	18.0	18.0	18.0	
✓	414	18.0	18.0	18.0	
✓	415	18.0	17.5	17.5	
✓	416	17.5	17.5	17.5	
✓	417	17.5	17.0	17.2	
✓	418	17.0	17.0	17.0	
	419	17.5	17.5	17.5	
✓	420	17.5	17.5	17.5	

Nebula?



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15449

Catalog No.	Current No.	Mag.1	Mag.2	Mean
✓ 421	17.5	17.5	17.5	
✓ 422	17.5	17.5	17.5	
423	17.5	17.5	17.5	
I. 3387 = <del>424</del>	<del>17.0</del>	<del>17.0</del>	<del>17.0</del>	
I. 3353 = <del>425</del>	<del>17.0</del>	<del>17.0</del>	<del>17.0</del>	
✓ 426	18.0	17.5	17.5	
N4408 = 427	16.0			
✓ 428	17.5	17.5	17.5	
✓ 429	18.0	18.0	18.0	
✓ 430	17.5	17.5	17.5	
✓ 431	17.5	17.5	17.5	
✓ 432	17.0	17.0	17.0	
✓ 433	18.0	17.5	17.5	
✓ 434	17.0	16.5	16.5	
435	18.0	18.0	18.0	
✓ 436	18.0	18.0	18.0	
✓ 437	17.5	17.5	17.5	
✓ 438	17.5	17.5	17.5	
439	17.5	17.5	17.5	
✓ 440	17.5	17.5	17.5	
441	17.0	17.0	17.0	
442	16.5	16.5	16.5	
443	17.5	17.5	17.5	
444	17.0	17.0	17.0	
445	17.0	17.0	17.0	
446	17.5	17.5	17.5	
447	17.5	17.5	17.5	
448	17.0	17.0	17.0	
449	17.0	17.0	17.0	
450	17.5	17.5	17.5	

Remarks

Attached to aster

Nebula?

Nebula?

442-480  
outside 9 sq.°



15449

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

451 17.0 17.5 17.2

452 17.5 17.5 17.5

453 17.5 17.5 17.5

454 17.0 17.0 17.0

455 17.0 17.5 17.2

456 17.0 17.0 17.0

456(a) 17.0 17.0 17.0

457 17.5 17.5 17.5

458 17.5 17.5 17.5

459 17.5 17.5 17.5

I 3247 = 460 17.0

461 17.5 17.5 17.5

I 3252 = 462 17.5 18.0 17.0

463 17.5 18.0 17.7

464 17.5 18.0 17.7

465 18.0 17.5 17.7

466 17.5 17.0 17.2

467 17.0 17.0 17.0

468 17.0 17.0 17.0

469 17.5 18.0 17.7

I 3252 = 470 17.5 17.5 17.5

471 17.0 17.0 17.0

472 17.0 17.0 17.0

473<sup>a</sup> 17.0 16.5 16.7

473 17.0 17.0 17.0

474 17.5 18.0 17.7

I 3172 = 475 17.5 17.0 17.2

I 3172 = 476 17.5 17.0 17.2

477 18.0 18.0 18.0

478 18.0 17.5 17.7

479 17.0 17.0 17.0

480 17.0 17.0 17.0



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15449

Catalog No.	Current No.	Mag.1	Mag.2	Mean	Remarks
14275 =	481	<del>14.5</del>			Melrula?
	482	18.0	18.0	18.0	
NGC 4274				11.7 (A.A.)	
✓ 4275		15.0	14.5	<del>14.5</del>	
✓ 4278				11.6 (A.A.)	
✓ 4283				12.8 (A.A.)	
✓ 4286		16.0	16.5	<del>16.2</del>	
✓ 4295		15.5	16.0	15.7	
✓ {4310}		14.5	15.0	<del>14.5</del>	
✓ {4311}					
✓ 4314				11.7 (A.A.)	
✓ 4375		15.5	15.5	15.5	
✓ 4393		16.0	16.0	16.0	
✓ 4408		15.5	15.5	15.5	
4448				11.9 (A.A.)	
4475		16.0	16.0	<del>10.9 (A.A.)</del> <sup>16.0 mean</sup>	
4494				10.9 (A.A.)	
✓ 4495		15.5	15.5	15.5	
✓ 4514		16.0	15.5	15.7	
4555		14.5	14.5	14.5	
4556		15.5	15.5	15.5	
4557		16.0	16.0	16.0	
4558		16.5	16.5	16.5	
4559				10.7 (A.A.)	
Part of M4565 4562					
4563		16.5	16.5	16.5	Attached to a star
4565				10.7 (A.A.)	
✓ 4585		15.5	15.5	15.5	
4613		16.0	16.0	16.0	
4614		15.0	15.5	15.2	
✓ 4615		15.5	16.0	<del>15.5</del> 15.7	



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Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

✓	Nac	4670			12.7(A.A.)	
✓		4673	14.5	15.0	14.7	
✓		4692	15.5	15.5	15.5	
✓		4702	16.5	16.5	<del>12.5(A.A.)</del> 16.5	
✓		4712			12.9(A.A.)	
✓		4715	15.5	16.0	15.7	
✓		4721	16.0	15.5	15.7	
✓		4725			16.8(A.A.)	
✓		4728	15.5	16.0	15.7	
IC ✓		777	15.5	15.5	15.5	
✓		779	16.5	17.0	16.7	
✓		780	15.0	15.5	15.2	
✓		818	16.0	16.0	16.0	
✓		821	16.0	16.0	16.0	
		3165	16.0	16.5	16.2	
		3168	16.5	16.5	16.5	
		3171	15.5	16.0	15.7	
		3172	17.0	17.0	17.0	
		3176	16.5	17.0	16.7	
		3178	17.0	17.0	17.0	Identification?
		3179	17.0	17.0	17.0	
		3185	16.5	17.0	16.7	
		3186	16.0	16.0	16.0	Scratch runs thro <sup>image</sup>
		3189	16.5	17.0	16.7	
		3193	16.5	16.5	16.5	
		3194	17.0	17.0	17.0	
		3195	17.0	17.5	17.2	
		3197	17.0	17.0	17.0	
		3200	17.5	17.0	17.2	
		3202	17.0	17.0	17.0	

3165-3385 outside  
square degrees



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15449

atalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
IC 3203		16.0	16.0	16.0	
3205		16.0	16.5	16.2	
3206		16.5	16.5	16.5	
3210		16.5	16.5	16.5	
3212		16.5	16.5	16.5	
3214		17.0	17.0	17.0	
3215		16.5	17.0	16.7	
3216		17.0	17.0	17.0	
3217		<del>16.5</del>	16.5	16.5	
3219		17.0	17.5	17.2	
3221		17.5	17.5	17.5	
3222		16.5	17.0	16.7	
3226		17.0	17.5	17.2	
3230		16.5	17.0	16.7	
3231		16.5	16.5	16.5	
3234		<del>17.0</del>	17.0	17.0	
3237		16.5	17.0	16.7	
3241		16.5	16.5	16.5	
3242		17.0	17.5	17.2	
3243		16.5	16.5	16.5	
3247		16.0	16.5	16.2	
3252		17.0	17.0	17.0	
3262		15.5	15.5	15.5	
3263		16.0	15.5	15.7	
3264		17.0	17.0	17.0	
3269		17.5	17.5	17.5	
3270		17.0	17.0	17.0	
3276		17.0	17.5	17.2	
3277		17.0	17.0	17.0	
3278		17.0	17.5	17.2	Helula?
3282		17.0	17.5	17.2	



15449 Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
IC 3283		17.0	17.5	17.2	
3294		17.0	17.5	17.2	
3297		17.0	17.0	17.0	
3299		17.0	17.0	17.0	
3300		16.0	15.5	15.7	
3302		16.5	17.0	16.7	
3304		17.0	17.0	17.0	
3306		16.5	17.0	16.7	
3308		16.0	16.0	16.0	
3309		16.5	17.0	16.7	
3316		17.0	17.5	17.2	
3317		17.5	17.5	17.5	
3321		16.5	17.0	16.7	
3324		16.0	16.0	16.0	
3329		17.0	17.0	17.0	Part of N4393?
3332		17.0	17.0	17.0	
3334		17.0	17.5	17.2	
3335		16.5	16.5	16.5	
3336		15.5	15.5	15.5	
3337		16.5	17.0	16.7	
3338		16.5	16.5	16.5	
3341		17.0	17.0	17.0	
3348		17.0	17.5	17.2	
3353		16.5	17.0	16.7	
3360		17.0	17.5	17.2	
3362		16.5	16.5	16.5	
3364		16.5	17.0	16.7	
3367		16.0	16.5	16.2	
3372		17.0	17.0	17.0	
3373		16.5	17.0	16.7	
3375		16.5	17.0	16.7	



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15449

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
IC 3376		15.0	15.5	15.2	
3377		17.0	17.0	17.0	
3380		16.5	17.0	16.7	
3384		17.0	17.0	17.0	
3385		17.0	17.5	17.2	
3387		17.0	17.0	17.0	
3389		17.5	17.5	17.5	
✓ 3390		17.0	17.0	17.0	
3394		16.5	17.0	16.7	
✓ 3395		17.0	17.0	17.0	
✓ 3396		16.5	17.0	16.7	
3397		18.0	18.0	18.0	Helix?
✓ 3399		16.5	16.5	16.5	
3401		16.5	17.0	16.7	
✓ 3402		16.5	16.5	16.5	
3406		16.0	16.0	16.0	
3407		15.5	15.5	15.5	
3411		16.0	16.5	16.2	
3415		17.0	17.5	17.2	
3421		17.0	16.5	16.7	
✓ 3439		17.0	17.0	17.0	
✓ 3441		16.5	16.0	16.7	
3444		16.5	16.5	16.5	
3449		17.0	16.5	16.7	
3450		17.0	16.5	16.7	
✓ 3451		16.5	16.5	16.5	
3454		17.0	16.5	16.7	
3455		17.0	17.0	17.0	
3458		16.5	16.5	16.7	
3460		17.0	17.0	16.7	
3464		18.0	18.0	18.0	Helix?
3469		17.5	17.5	17.5	
3477		17.0	17.0	17.0	Helix??



15449

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓ IC 34779		17.0	17.0	17.0	
3480		16.5	17.0	16.7	Double star?
3482		16.5	17.0	16.7	
3488		15.5	16.0	15.7	
3491		17.0	17.0	17.0	
3494		17.0	17.0	17.0	Nebrula?
3495		17.0	17.0	17.0	
3496		16.5	16.5	16.5	
✓ 3497		17.0	17.0	17.0	
3502		17.0	17.5	17.2	Faint star close
✓ 3507		17.0	17.0	17.0	
3508		15.5	15.5	15.5	
3511		17.0	17.0	17.0	
3512		17.0	17.0	17.0	
3513		17.0	17.0	17.0	
3514		17.5	17.5	17.5	
3515		16.5	16.5	16.5	
3516		17.0	17.5	17.2	
3531		17.0	17.0	17.0	
3533		16.5	16.5	16.5	
3536		16.5	17.0	16.7	
✓ 3538		16.5	16.5	16.5	
3543		17.0	17.0	17.0	
3546		16.0	16.0	16.0	
3547		17.0	17.0	17.0	
3549		17.5	17.5	17.5	
3553		17.0	17.5	17.2	
3559		16.5	17.0	16.7	
3560		17.0	16.5	16.7	
3561		16.0	15.5	15.7	
3565		17.0	17.5	17.2	
3571		17.0	17.5	17.2	
3579		17.5	17.5	17.5	Nebrula?
3582		16.5	17.0	16.7	
3585		15.5	15.5	15.5	
3587		17.0	16.5	16.7	
3590		16.5	16.5	16.5	
3592		15.5	15.5	15.5	
3593		16.0	16.0	16.0	
<del>3594</del>					
3596		17.0	17.0	17.0	Nebrula??
3598		15.5	15.5	15.5	
3599		16.5	16.5	16.5	
3600		15.5	16.0	15.7	
3610		17.0	17.0	17.0	
3614		17.0	17.0	17.0	
3618		15.5	15.5	15.5	
3620		16.0	16.5	16.2	
3623		15.5	15.5	15.5	
✓ 3626		16.5	16.5	16.5	
3627		17.0	17.0	17.0	
3628		16.5	16.5	16.5	
✓ 3630		17.0	17.5	17.2	
3632		17.0	17.5	17.2	
3640		16.5	16.5	16.5	
3642		17.0	17.0	17.0	
3644		17.0	17.0	17.0	
3645		16.5	16.0	16.2	
3646		17.5	18.0	17.7	
3650		17.0	17.0	17.0	
3651		15.0	15.5	15.2	



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A 15361

15361  
Catalog No.

Do not use this plate on 2-3-5 problem. Something wrong with it

Current No. Mag. 1 Mag. 2 Mean

Remarks

1	16.5		
2	16.5		
3	17.0		
4	16.5		
5	17.5		
6	17.0		
7	17.5		
8	16.5		
9	16.0		
10	16.5		
11	15.5		
12	17.5		
13	17.5		
14	18.0		
15	17.5		
16	18.0		
17	17.0		
18	17.0		
19	17.5		
20	18.0		
21	16.5		
22	16.5		
23	17.5		
24	17.0		
25	17.5		
26	17.0		
27	17.5		
28	17.0		
29	17.0		
30	17.0		



15361

Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

31 16.5

32 17.0

33 17.5

34 17.0

35 17.5

36 17.5

37 17.0

38 17.5

Nebula?

39 17.0

40 17.0

41 16.0

42 17.5

43 16.5

44 17.0

45 17.0<sup>5</sup>

46 17.0

47 17.5

48 17.0

49 17.5

50 17.0

51 17.0

52 18.0

53 17.0

54 17.0

55 18.0

56 18.0

57 17.5

58 17.5

59 17.5

60 17.5



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15361

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	61	17.0			
	62	17.5			
	63	17.5			
	64	17.0			
	65	17.5			
	66	16.5			
	67	17.0			
	68	17.0			
	69	16.5			
	70	16.5			
	71	17.5			
	72	17.5			
	73	17.0			
	74	17.0			
	75	17.0			
	76	16.5			
	77	15.5			
	78	17.5			
	79	16.5			
	80	17.5			
	81	17.5			
	82	17.0			
	83	17.0			Nebula?
	84	16.0			
	85	17.0			
	86	17.0			
	87	17.5			
	88	15.5			
	89	17.0			
	90	17.5			



<u>15361</u> Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	91	15.5			
	92	16.5			
	93	17.0			
	94	17.5			
	95	17.0			
	96	17.0			
	97	16.5			
	98	16.5			
	99	16.5			
	100	16.5			
	101	17.0			
	102	16.0			Nebraska?
	103	16.5			
	104	16.5			
	105	17.5			
	106	17.5			
	107	17.0			
	108	17.0			
	109	17.0			
	110	17.0			
	111	17.0			
	112	17.0			Nebraska?
	113	16.5			
	114	17.0			
	115	17.0			
	116	17.0			
	117	17.0			
	118	16.5			
	119	16.5			
	120	17.0			



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5361

Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

121 17.5

122 16.0

123 16.0

124 17.5

125 17.0

126 16.5

127 17.0

128 17.0

129 16.5

130 17.5

131 17.0

132 17.0

133 16.5

134 17.5

135 15.5

136 16.0

Nebula?

← N 4336 15.0

N 4455

13.0 (A.A.)

N 4561

12.9 (A.A.)

= I 3569

N 4635

13.0 (A.A.)

N 4685 15.0

I 3231

Too near edge of plate

3286 17.0

3296 16.5

3314 17.0

3325 17.0

3326 17.5

3359 17.0

3429 17.0



15361

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

I 3436 15.0

3581 15.0

3619 17.5

3636 17.0

3649 17.5

3654 17.0

3656 17.5

3659 16.5

3660 15.5

3661 17.5

3671 ← 3662 15.5

3674 18.0

3691 18.0

3700 —

3705 —

3730 15.0

3736 16.5

3738 —

3740 16.5

37 — 16.5

3776 17.0

3784 —

3671 16.5

Too near edge of plate

"

Too near edge of plate

Helula?

Too near edge of plate



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403

A 15867

15867

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
1-58	1	16.0	16.5	16.2	
outside 9 sq.°	2	17.5	17.0	17.2	Nebula?
also, all	3	<del>15.5</del> <sup>16.0</sup>	16.5	16.2	
numbers checked	4	17.5	17.5	17.5	
in red are	5	16.5	17.0	16.7	
outside 9 sq.°	6	17.5	17.5	17.5	
	7	16.0	16.5	16.2	
	8	17.0	17.0	17.0	
	9	17.5	17.5	17.5	
	10	17.5	17.5	17.5	
	11	17.5	17.5	17.5	
	12	17.0	17.0	17.0	
	13	17.5	17.5	17.5	Nebula?
	14	16.5	17.0	16.7	
	15	15.5	16.0	15.7	
	16	16.5	17.0	16.7	
	17	17.0	17.0	17.0	
	18	16.5	17.0	16.7	
	19	16.0	16.5	16.2	
	20	17.5	17.5	17.5	Nebula?
	21	16.5	16.0	16.2	
	22	17.5	17.0	17.2	Nebula?
	23	17.0	17.5	17.2	
	24	15.5	15.5	15.5	
	25	17.0	17.5	17.2	scratch name thro Nebula? image
	26	17.0	17.0	17.0	
	27	17.0	17.5	17.2	Nebula?
	28	17.5	17.5	17.5	
	29	17.5	17.5	17.5	
	30	17.5	18.0	17.7	



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Catalog. No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
31		17.5	17.5	17.5	
32		17.5	17.5	17.5	
33		17.0	17.0	17.0	
34		17.0	17.0	17.0	
35		18.0	18.0	18.0	
36		16.5	17.0	16.7	
37		17.0	17.0	17.0	
38		16.5	17.0	16.7	
39		17.0	17.0	17.0	
40		18.0	18.0	18.0	Nebrula?
41		17.0	17.5	17.2 <sub>1</sub>	"
42		17.5	17.5	17.5	
43		17.0	17.5	17.2 <sub>1</sub>	
44		17.5	17.0	17.2 <sub>1</sub>	
45		17.0	17.0	17.0	
46		16.5	16.5	16.5	
47		17.5	17.5	17.5	
48		16.5	16.5	16.5	
49		16.5	16.5	16.5	Nebrula?
50		16.0	16.0	16.0	
51		17.0	17.0	17.0	
52		15.5	16.0	15.7	
53		16.5	16.5	16.5	
54		17.0	17.5	17.2 <sub>1</sub>	
55		16.5	17.0	16.7	
56		17.0	17.5	17.2 <sub>1</sub>	Nebrula?
57		17.0	17.5	17.2 <sub>1</sub>	
58		18.0	18.0	18.0	
59		17.0	17.5	17.2 <sub>1</sub>	Nebrula?
60		17.0	17.5	17.2 <sub>1</sub>	



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Catalog

No.	Current No.	Mag.1	Mag.2	Mean
	61	17.5	18.0	17.7
✓	62	17.0	17.0	17.0
✓	63	16.5	17.0	16.7
✓	64	16.5	16.5	16.5
	65	17.0	17.0	17.0
	66	17.0	17.0	17.0
	67	17.5	17.5	17.5
	68	17.0	17.0	17.0
	69	16.5	16.5	16.5
	70	17.0	17.0	17.0
	71	18.0	18.0	18.0
✓	72	16.5	16.5	16.5
	73	17.5	17.0	17.2
	74	16.5	16.5	16.5
	75	16.5	16.5	16.5
✓	76	17.0	17.0	17.0
✓	77	17.0	17.0	17.0
✓	78	17.0	16.5	16.7
✓	79	17.0	17.0	17.0
✓	80	16.5	17.0	16.7
✓	81	16.5	16.5	16.5
✓	82	16.5	17.0	16.7
✓	83	17.0	17.0	17.0
✓	84	17.5	17.5	17.5
✓	85	17.0	17.0	17.0
✓	86	17.0	17.0	17.0
✓	87	17.0	17.0	17.0
✓	88	17.5	17.0	17.2
✓	89	16.5	16.5	16.5
	90	18.0	17.5	17.7

Remarks

Nebula?

Nebula?

Nebula?



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Catalog No. Comment No. Mag. 1 Mag. 2 Mean

Remarks

	91	17.5	17.5	17.5
	92	17.5	17.5	17.5
	93	17.0	17.5	17.2 <sub>4</sub>
	94	18.0	18.0	18.0
	95	17.0	17.0	17.0
	96	17.5	17.5	17.5
	97	17.5	17.0	17.2 <sub>4</sub>
	98	17.5	17.0	17.2 <sub>4</sub>
	99	17.5	17.5	17.5
	100	17.5	17.0	17.2 <sub>4</sub>
	101	15.5	15.5	15.5
	102	17.0	17.0	17.0
	103	16.5	16.5	16.5
	104	17.5	17.5	17.5
✓	105	17.5	17.5	17.5 <sub>v</sub>
✓	106	17.0	17.0	17.0
✓	107	17.0	17.5	17.2 <sub>4</sub>
✓	108	16.5	17.0	16.7
✓	109	15.0	15.5	15.2 <sub>4</sub>
✓	110	17.0	17.5	17.2 <sub>4</sub>
✓	111	16.5	17.0	16.7
✓	112	17.0	17.5	17.2 <sub>4</sub>
✓	113	17.0	16.5	16.7
✓	114	17.0	16.5	16.7
✓	115	17.5	17.5	17.5
✓	116	17.5	18.0	17.7
✓	117	17.5	17.5	17.5
✓	118	17.5	17.5	17.5
✓	119	16.5	17.0	16.7 <sub>2</sub>
	120	17.0	17.5	17.2 <sub>4</sub>

Nebula?

Between 2 stars

Nebula?



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15867

Catalog No.

Current No.	Mag. 1	Mag. 2	Mean
121	17.0	17.0	17.0
122	17.5	17.5	17.5
123	17.5	17.0	17.2
124	17.0	17.0	17.0
125	16.5	16.5	16.5
126	17.5	17.5	17.5
127	17.5	18.0	17.7
128	17.5	17.5	17.5
129	17.0	17.0	17.0
130	17.5	17.5	17.5
131	17.0	17.5	17.2
132	17.0	17.0	17.0
133	17.0	17.0	17.0
134	17.5	18.0	17.7
135	16.5	17.0	16.7
136	17.0	17.0	17.0
137	16.5	16.5	16.5
138	17.0	17.0	17.0
139	15.5	15.5	15.5
140	17.0	17.0	17.0
141	18.0	18.0	18.0
142	16.5	16.5	16.5
143	17.5	17.5	17.5
144	17.0	17.0	17.0
145	16.5	16.5	16.5
146	16.5	16.5	16.5
147	17.0	17.5	17.2
148	18.0	17.5	17.7
149	17.5	17.5	17.5
150	17.5	17.5	17.5

Remarks

Nebula?

Nebula?

Nebula?

"

"



15867

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	151	17.0	17.0	17.0	
	152	17.0	17.0	17.0	
	153	18.0	18.0	18.0	
	154	17.0	17.0	17.0	
	155	17.0	17.0	17.0	
	156	17.5	17.5	17.5	
	157	18.0	18.0	18.0	
	158	16.5	16.5	16.5	
	159	17.0	17.0	17.0	attached to 162
	160	17.5	17.5	17.5	
	161	17.0	17.5	17.2	
	162	16.5	16.5	16.5	attached to 159
	163	17.0	17.0	17.0	
✓	164	17.0	17.0	17.0	
✓	165	17.5	18.0	17.7	
	166	17.0	17.0	17.0	
	167	17.0	17.0	17.0	
	168	17.5	17.5	17.5	
	169	18.0	18.0	18.0	
	170	18.0	18.0	18.0	Helula?
	171	16.5	16.5	16.5	
	172	18.0	17.0 <sup>5</sup>	17.7	
	173	17.0	16.5	16.7	
	174	17.0	17.0	17.0	Very close to bright star
	175	17.5	17.5	17.5	Helula?
	176	17.0	17.0	17.0	"
	177	17.5	17.5	17.5	
	178	17.5	17.5	17.5	
	179	17.0	17.0	17.0	
	180	17.5	17.5	17.5	



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Catalog No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks

	181	17.5	18.0	17.7	
	182	17.5	17.5	17.5	
	183	16.5	16.5	16.5	
	184	16.5	16.5	16.5	
	185	17.0	17.0	17.0	
	186	18.0	17.5	17.7	
	187	18.0	17.5	17.7	
	188	17.5	17.5	17.5	
	189	17.0	17.0	17.0	
✓	190	16.5	16.0	16.2 <sub>4</sub>	
✓	191	17.5	17.5	17.5	
✓	192	16.5	16.5	16.5	
✓	193	17.0	17.5	17.2 <sub>4</sub>	
✓	194	17.0	17.0	17.0	
✓	195	17.0	17.0	17.0	
✓	196	17.5	17.5	17.5	
✓	197	17.0	17.0	17.0	
✓	198 <sup>a</sup>	17.5	17.0	17.2 <sub>4</sub>	
✓	198	17.0	17.0	17.0 <sub>4</sub>	
	199	17.5	17.5	17.5	
	200	18.0	18.0	18.0	
✓	201	17.0	17.0	17.0 <sub>4</sub>	
✓	202	17.0	17.0	17.0 <sub>4</sub>	
✓	203	17.0	17.0	17.0 <sub>4</sub>	
✓	204	17.5	17.5	17.5 <sub>4</sub>	
	205	16.5	16.5	16.5	
	206	17.0	17.0	17.0	
	207	16.0	16.5	16.2 <sub>4</sub>	
	208	16.0	16.5	16.2 <sub>4</sub>	
	209	17.5	17.5	17.5	
	210	16.5	16.5	16.5	!

Nebula?

Nebula?



15867

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean
	211	17.5	17.5	17.5
	212	17.5	17.5	17.5
	213	17.0	17.0	17.0
	214	17.0	17.0	17.0
	215	18.0	17.5	17.5
	216	16.5	17.0	16.5
	217	17.5	17.5	17.5
	218	17.5	17.5	17.5
	219	17.5	17.5	17.5
	220	17.5	17.5	17.5
	221	17.0	17.0	17.0
	222	16.5	16.5	16.5
	223	16.5	16.5	16.5
	224	17.0	17.0	17.0
	225	17.5	17.5	17.5
	226	17.0	17.0	17.0
	227	17.0	17.0	17.0
	228	18.0	17.5	17.5
	229	18.0	18.0	18.0
	230	17.5	17.0	17.2
	231	16.0	16.5	16.2
	232	17.5	17.5	17.5
	233	17.5	17.5	17.5
	234	17.0	17.0	17.0
	235	17.0	17.0	17.0
	236	16.5	16.5	16.5
	237	17.0	17.5	17.2
	238	18.0	18.0	18.0
	239	17.5	18.0	17.5
✓	240	17.0	17.0	17.0

Remarks  
Close to bright star  
Nebula?

Nebula?

Nebula?

Nebula?

"



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15867

Catalog No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks

✓	241	17.5	17.5	17.5 <sub>↓</sub>
✓	242	17.5	17.0	17.2 <sub>↓</sub>
✓	243	16.5	16.5	16.5
✓	244	17.0	17.0	17.0
✓	245	<del>17.0</del> 16.5	16.5	16.7
✓	246	17.0	17.0	17.0
✓	247	18.0	17.5	17.7
✓	248	17.0	17.0	17.0 <sub>↑</sub>
	249	17.0	17.0	17.0
	250	17.5	17.5	17.5
	251	17.0	17.0	17.0
	252	17.5	17.5	17.5
	253	17.5	17.5	17.5
	254	16.5	17.0	16.7
	255	17.5	17.5	17.5
	256	17.5	17.5	17.5
	257	17.5	17.5	17.5
	258	16.5	16.5	16.5
✓	259	17.0	17.0	17.0 <sub>↓</sub>
✓	260	16.5	16.5	16.5
✓	261	17.0	17.5	17.2 <sub>↓</sub>
✓	262	17.0	17.0	17.0
✓	263	17.5	18.0	17.7 <sub>↑</sub>
	264	16.5	16.5	16.5
	265	17.5	17.5	17.5
	266	16.5	16.5	16.5
	267	16.0	16.0	16.0
	268	17.5	17.5	17.5
	269	17.5	17.5	17.5
✓	270	16.0	15.5	15.7 <sub>↓</sub>

Nebula?

Nebula?



15867					Remarks
Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	
✓	271	17.0	17.0	17.0 ↓	
✓	272	17.0	17.0	17.0	
✓	273	17.0	17.0	17.0	
✓	274	16.5	16.5	16.5	
✓	275	17.0	17.0	17.0	
✓	276	16.5	16.5	16.5 ↑	
	277	17.0	17.0	17.0	
	278	17.0	17.0	17.0	
	279	17.0	17.0	17.0	
	280	17.5	17.5	17.5	
	281	17.5	17.5	17.5	
	282	17.0	17.0	17.0	
	283	17.0	16.5	16.7	
	284	17.5	17.5	17.5	Melula?
	285	17.5	17.5	17.5	
	286	16.5	16.5	16.5	Attached to bright star
	287	17.5	17.5	17.5	Melula?
	288	16.5	16.0	16.2	
✓	289	17.0	17.0	17.0	
✓	290	16.5	17.0	16.7	
	291	16.5	16.5	16.5	
	292	16.0	16.5	16.2	
	293	16.5	17.0	16.7	
	294	16.5	16.5	16.5	
	295	17.5	17.0	17.2	
	296	17.5	17.5	17.5	Melula?
✓	297	17.0	17.0	17.0 ↓	"
✓	298	17.0	17.0	17.0	
✓	299	17.0	17.0	17.0	
✓	300	17.5	17.5	17.5	



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15867

Catalog No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks

✓	301	17.0	17.0	17.0 <sub>v</sub>
✓	302	17.5	17.5	17.5
✓	303	17.5	17.5	17.5
✓	304	16.5	16.5	16.5
✓	305	17.0	17.0	17.0
✓	306	17.5	17.5	17.5
✓	307	17.0	17.5	17.2 <sub>v</sub>
✓	308	17.0	17.0	17.0
✓	309	17.0	17.5	17.2 <sub>v</sub>
✓	310	16.0	16.0	16.0 <sub>↑</sub>
	311	17.5	17.5	17.5
	312	17.5	18.0	17.7
✓	313	17.5	17.0	17.2 <sub>v</sub>
✓	314	17.0	17.0	17.0 <sub>v</sub>
	315	17.0	17.0	17.0
	316	17.5	18.0	17.7
✓	317	16.5	16.5	16.5
✓	318	16.5	16.5	16.5
✓	319	17.0	17.0	17.0
✓	320	16.5	17.0	16.7 <sub>v</sub>
	321	17.0	17.0	17.0
	322	17.5	18.0	17.7
	323	17.5	17.5	17.5
	324	17.5	17.5	17.5
	325	17.0	17.0	17.0
	326	17.0	17.0	17.0
	327	15.0	15.0	15.0
	328	17.0	17.0	17.0
	329	16.0	16.5	16.2 <sub>v</sub>
	330	16.5	17.0	16.7

Nebula?

"

"

Nebula?



15867

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

✓ 331 17.0 17.0 17.0 ✓

✓ 332 17.0 16.5 16.7 ✓

333 17.5 17.5 17.5

334 17.5 17.0 17.2

335 17.5 17.5 17.5

336 17.5 17.0 17.2

337 17.0 17.0 17.0

338 17.5 17.5 17.5

339 17.5 17.0 17.2

Nebula?

340 17.0 17.0 17.0

341 17.0 17.0 17.0

342 17.0 17.0 17.0

343 17.0 17.0 17.0

✓ 344 17.5 17.0 17.2

Nebula?

✓ 345 16.5 16.5 16.5

"

346 17.0 17.0 17.0

"

347 17.5 17.5 17.5

348 17.5 17.0 17.2

349 17.0 17.0 17.0

Attached to 350  
Attached to 349

350 17.5 17.5 17.5

✓ 351 16.5 16.5 16.5

✓ 352 17.0 17.0 17.0

✓ 353 17.5 17.5 17.5

Nebula?

354 17.5 17.5 17.5

355 ~~17.0~~ 16.5 16.5356-403  
outside 9 sq°356 ~~17.0~~ 17.0 17.0

357 16.5 16.0 16.3

Nebula?

358 17.0 17.0 17.0

359 17.5 17.0 17.2

360 17.5 17.5 17.5



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15867

Catalog No.

Current No.	Mag. 1	Mag. 2	Mean
361	17.0	17.0	17.0
362	16.5	17.0	16.7
363	17.0	17.5	17.2
364	17.5	17.0	17.2
365	17.5	17.0	17.2
366	17.0	17.0	17.0
367	17.5	17.5	17.5
368	17.0	17.0	17.0
369	17.5	17.5	17.5
370	17.0	17.0	17.0
371	17.0	17.0	17.0
372	16.5	16.5	16.5
373	16.5	16.5	16.5
374	17.5	17.5	17.5
375	17.0	17.0	17.0
376	17.0	17.5	17.2
377	16.5	17.0	16.7
378	17.5	17.5	17.5
379	17.0	17.0	17.0
380	16.0	16.5	16.2
381	15.5	16.0	15.7
382	16.5	16.5	16.5
383	16.5	16.5	16.5
384	16.5	16.5	16.5
385	16.5	16.5	16.5
386	17.0	17.0	17.0
387	17.0	17.0	17.0
388	17.0	17.0	17.0
389	16.5	16.5	16.5
390	17.0	16.5	16.7

Remarks

Nebula

Nebula?

"

"

"

Nebula?

"

"

Faint star attached

Nebula?



15867

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	391	17.0	17.0	17.0	
	392	17.5	17.5	17.5	Nebraska?
	393	17.5	17.0	17.2	
	394	16.0	16.0	16.0	
	395	17.5	17.0	17.2	
	396	17.0	17.0	17.0	
	397	16.5	16.5	16.5	
	398	17.0	17.0	17.0	
	399	17.5	17.5	17.5	
	400	17.0	16.5	16.7	Nebraska?
	401	15.5	16.0	15.7	
	402	17.0	17.0	17.0	
	403	17.0	17.5	17.2	

✓ NGC 2642 12.7 (A.A.)

2690 14.5 14.5 14.5

2695 14.0 14.0 14.0

✓ 2696 = 2 stars

2697 14.5 14.5 14.5

2698 14.0 14.0 14.0

2699 14.5 14.0 14.2

2706 15.0 15.0 15.0

2708 14.0 14.0 14.0

2709 16.0 15.5 15.7

✓ 2721 14.5 14.5 14.5

2722 14.0 14.0 14.0

✓ 2733 14.5 14.5 14.5

IC 525 15.5 15.5 15.5

2425 15.5 15.5 15.5

Red, from A15841 - (numbers correspond to those on original plate)

23 17.0 17.0 17.0

24 15.5 16.5

16.0 16.0 16.0



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15867

Catalog. No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks

25 17.0 17.0 17.0

26 17.0 17.0 17.0

27 16.5 17.0 16.7

29 16.5 16.5 16.5

30 17.0 17.0 17.0

31 15.5: 15.5: 15.5:

32 17.0 17.0 17.0

33 16.5 16.5 16.5

34 15.0 15.0 15.0

35 17.0 17.0 17.0

36 15.5 16.0 15.7

37 15.0 15.0 15.0

38 16.5 16.5 16.5

43  
44 17.0 17.0 17.0

17.0 17.5 17.5

Nebula?

Bright star involved

Nebula?







86

224

15475

A 15475

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
nos. 1-59	1	17.0	17.5	17.2 <sub>4</sub>	
outside 9 sq.°	2	16.5	17.0	16.7	
Also, all numbers	3	16.0	16.5	16.2 <sub>5</sub>	
checked in red	4	16.5	16.5	16.5	
are outside 9 sq.°	5	16.5	16.5	16.5	
	5 <sup>a</sup>	16.0	16.0	16.0	
	6	16.5	16.5	16.5	close to bright star
	7	17.5	17.5	17.5	
	8	17.5	17.5	17.5	
	9	17.0	17.5	17.2 <sub>4</sub>	Nebula?
	10	17.0	17.5	17.2 <sub>4</sub>	"
	11	17.5	18.0	17.7	
	12	17.0	17.5	17.2 <sub>4</sub>	
	13	17.0	17.5	17.2 <sub>4</sub>	Nebula? Faint star attached
	14	17.0	17.5	17.2 <sub>4</sub>	Nebula
	15	16.5	16.5	16.5	
	16	15.0	15.5	15.2 <sub>5</sub>	
	17	17.0	17.0	17.0	
	18	17.5	17.5	17.5	Nebula?
	19	<del>17.5</del> <sup>18.0</sup>	18.5	18.5	
	20	17.5	18.0	17.7	Nebula?
	21	17.5	17.5	17.5	
	22	16.5	17.0	16.7	
	23	17.0	17.5	17.2 <sub>4</sub>	
	24	17.0	17.5	17.2 <sub>4</sub>	Nebula?
	25	16.5	17.0	16.7	Nebula?
	26	16.5	16.5	16.5	Nebula?
	27	16.5	16.5	16.5	
	28	17.5	18.0	17.7	Nebula?
	29	17.0	17.5	17.2 <sub>4</sub>	Attached to 30
	30	17.5	18.0	17.7	" 29



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean
	31	17.0	17.5	17.2
	32	17.5	18.0	17.7
	33	18.0	18.0	18.0
	34	18.0	18.5	18.2
	35	16.5	16.5	16.5
	36	17.5	17.5	17.5
	37	17.5	17.5	17.5
	38	18.0	17.5	17.7
	39	15.0	15.5	15.2
	40	17.5	17.5	17.5
	41	18.0	18.5	18.2
	42	17.0	17.0	17.0
	43	17.5	17.0	17.2
	44	18.0	18.5	18.2
	45	17.5	17.5	17.5
	46	15.5	15.0	15.2
	47	16.0	16.0	16.0
	48	17.0	16.5	16.7
	49	17.5 <sup>0</sup>	17.0	17.0
	50	17.0	17.5	17.2
	51	17.0	16.5	16.7
	52	16.5	16.5	16.5
	53	15.5	15.0	15.2
	54	17.5	<sup>18.0</sup> <del>17.5</del>	17.7
	55	17.5	17.5	17.5
	56	17.0	17.0	17.0
	57	16.5	16.5	16.5
	58	17.5	17.5	17.5
	59	17.5	17.5	17.5
	60	18.0	18.0	18.0

Remarks  
*Helula?*

*Helula?*

*Helula?*

"

"



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15475

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks  
Nebula?

61 18.0 17.5 17.5

62 17.5 17.5 17.5

63 17.0 17.0 17.0

✓ 64 17.5 17.5 17.5

65 17.0 16.5 16.5

66 18.0 18.5 18.2

Nebula?

67 16.5 16.0 16.2

68 17.5 17.5 17.5

✓ 69 18.5 18.0 18.2

Nebula?

✓ 70 17.5 17.5 17.5

✓ 71 17.5 17.5 17.5

15 on A12652 = 72

14 " " = 73

74 17.0 17.0 17.0

75 16.5 17.0 16.5

76 17.0 17.0 17.0

77 16.0 16.0 16.0

78 17.5 17.5 17.5

79 18.0 18.0 18.0

79a 16.5 16.5 16.5

80 17.0 17.0 17.0

81 17.0 17.0 17.0

Nebula?

82 17.5 17.5 17.5

✓ 83 15.5 16.0 15.5

✓ 84 16.0 16.0 16.0

✓ 85 16.5 16.5 16.5

Nebula?

86 17.5 17.5 17.5

87 17.0 17.0 17.0

88 17.0 17.5 17.2

89 17.0 17.5 17.2

90 17.5 17.5 17.5

{ star attached  
Nebula?



15475

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

	91	17.5	17.0	17.2	
	92	17.5	17.5	17.5	
✓	93	17.5	17.5	17.5	Nebula?
	94	18.0	18.5	18.2	"
	95	17.5	18.0	17.7	
✓	96	17.0	17.5 <sup>0</sup>	17.0	
✓	97	17.5	17.5	17.5	
✓	98	17.0	17.0	17.0	
✓	99	17.0	17.0	17.0	
✓	100	17.5	17.5	17.5	
✓	101	18.0	18.5	18.2	
✓	102	17.0	17.0	17.0	
	103	17.5	17.5	17.5	
	104	15.5	15.5	15.5	
✓	105	17.0	17.0	17.0	Nebula?
✓	106	16.5	17.0	16.7	Nebula?
✓	107	17.0	16.5	16.7	
✓	108	18.0	17.5	17.7	Nebula?
✓	109	17.5	17.5	17.5	
✓	110	17.0	16.5	16.7	
✓	111	17.0	16.5	16.7	
✓	112	16.5 <sup>0</sup>	15.5	15.7	
	113	17.5	17.0	17.2	
	114	18.0	18.0	18.0	
	115	17.5	17.0	17.2	
	116	17.5	17.5	17.5	
	117	17.0	17.0	17.0	
	118	17.0	17.0	17.0	Nebula?
	119	17.5	17.5	17.5	
	120	18.0	18.0	18.0	Nebula?



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15475

Catalog No. Current No. Mag.1 Mag.2 Mean

Remarks  
Nebula?

✓	121	17.5	18.0	17.7
✓	122	17.0	17.0	17.0
	123	18.0	18.5	18.2
	124	17.0	17.0	17.0
	125	16.5	17.0	16.7
	126	16.5	16.5	16.5
✓	127	15.5	15.5	15.5
✓	128	16.5	16.5	16.5
✓	129	17.5	17.5	17.5
✓	130	16.5	16.5	16.5
✓	131	17.0	17.0	17.0
	132	17.5	17.5	17.5
	133	17.0	17.5	17.2
✓	134	17.5	17.5	17.5
59 on A12652	135			
✓	136	17.5	17.5	17.5
✓	137	17.5	17.5	17.5
✓	138	18.0	18.5	18.2
✓	139	17.5	17.0	17.2
✓	140	16.5	17.0	16.7
✓	141	16.0	15.5	15.7
✓	142	17.0	17.5	17.2
✓	143	15.5	15.0	15.2
	144	17.0	17.0	17.0
	145	17.0	17.5	17.2
	146	17.5	17.5	17.5
✓	147	17.0	17.5	17.2
✓	148	17.0	17.5	17.2
	149	18.0	18.0	18.0
	150	17.0	17.0	17.0

Nebula?



15475

catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

	151	18.0	18.0	18.0	
	152	17.5	17.5	17.5	
	153	17.0	17.0	17.0	
✓	154	16.0	16.0	16.0	
✓	155	17.0	17.0	17.0	
	156	17.0	17.0	17.0	
✓	157	17.5	17.5	17.5	
✓	158	16.5	16.5	16.5	
✓	159	16.5	16.0	16.2	
✓	160	16.5	16.5	16.5	
	161	17.5	17.5	17.5	
	162	17.5	18.0	17.7	
✓	163	17.5	17.5	17.5	
	164	17.0	16.5	16.7	
	165	17.5	17.5	17.5	
	166	17.5	17.5	17.5	
	167	16.5	16.5	16.5	
(mag 18.7) ✓	168	17.0	17.5	17.2	
	169	in cluster			
✓	170	17.5	17.5	17.5	
	171	18.0	18.0	18.0	
	172	17.0	17.0	17.0	Helula?
	173	17.5	17.0	17.2	
	174	17.5	17.5	17.5	
	175	17.0	17.0	17.0	
	176	17.0	16.5	16.7	
✓	177	17.0	16.5	16.7	Helula?
✓	178	17.0	17.0	17.0	
✓	179	17.5	17.5	17.5	Helula
✓	180	17.0	16.5	16.7	



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15475

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks  
Nebula?

✓ 181 16.5 16.5 16.5

✓ 182 17.5 16.5 16.7

✓ 183 16.5 16.5 16.5

✓ 184 16.5 16.5 16.5

✓ 185 17.0 17.0 17.0

Nebula?

✓ 186 17.0 17.5 17.2

✓ 187 17.0 17.0 17.0

188 in cluster

189 17.0 17.0 17.0

190 in cluster

✓ 191 16.5 16.5 16.5

{ Nebula?  
Faint star attached

192 17.5 17.5 17.5

193 in cluster

134 on A12652 =

194 ~~17.0~~

Nebula

195 17.0 17.5 17.2

196 17.5 17.5 17.5

Nebula?

✓ 197 16.0 16.0 16.0

✓ 198 17.0 17.0 17.0

✓ 199 17.5 17.5 17.5

200 17.5 18.0 17.7

Nebula?

✓ 201 17.5 18.0 17.7

✓ 202 17.5 17.5 17.5

Nebula?

✓ 203 16.5 16.5 16.5

"

✓ 204 17.5 17.0 17.2

✓ 205 17.0 17.5 17.2

✓ 206 17.5 17.5 17.5

Nebula?

✓ 207 17.5 17.0 17.2

✓ 208 16.5 16.5 16.5

Nebula?

✓ 209 17.0 16.5 16.7

✓ 210 16.5 16.0 16.2

Nebula



15475

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	211	16.5	16.5	16.5	
✓	212	17.0	17.5	17.2	
✓	213	16.5	16.5	16.5	
✓	214	17.5	17.5	17.5	
✓	215	17.5 <sup>5</sup>	18.0	17.7	
✓	216	16.5	16.5	16.5	Nebula?
✓	217	17.5	17.0	17.2	"
✓	218	15.5	15.5	15.5	
✓	219	15.0	15.5	15.2	
✓	220	17.5	17.0	17.2	
✓	221	16.5	16.0	16.2	
✓	222	17.0	17.0	17.0	Nebula?
✓	223	17.5	17.5	17.5	"
✓	224	in cluster			

I. 1386

14.5

BLUE, FROM A12652 (NUMBERS CORRESPOND TO THOSE ON 12652)

d	17.0	17.5	17.2	Nebula?
g	17.0	17.0	17.0	
3	16.5	16.0	16.2	
11	16.5	16.5	16.5	
12	16.0	15.5	15.7	
13	16.5	16.5	16.5	
14	17.0	17.5	17.2	
15	17.5	18.0	17.7	
16	16.5	16.0	16.2	
17	17.5	17.5	17.5	
32	17.0	17.0	17.0	
33	15.5	16.0	15.7	
34	17.0	16.5	16.7	
35	16.5	16.5	16.5	

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A 16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
Nos. 1-99	1	16.5	16.5	16.5	
outside 9 sq.°	2	17.5	17.5	17.5	
Also all numbers	3	17.0	17.0	17.0	
checked in red	4	16.5	17.0	16.7	
outside 9 sq.°	5	16.5	16.5	16.5	
	6	17.5	17.5	17.5	
	7	17.5	17.5	17.5	
	8	17.5	17.5	17.5	
	9	15.5	16.0	15.7	
	10	17.5	17.5	17.5	
	11	17.5	17.5	17.5	
	12	17.5	17.5	17.5	
	13	17.5	17.5	17.5	
	14	17.5	17.5	17.5	
	15	17.5	17.5	17.5	
	16	17.0	17.5	17.2	
	17	17.5	17.5	17.5	
	18	17.0	17.0	17.0	
	19	17.5	17.5	17.5	
	20	17.0	17.0	17.0	
	21	17.0	17.0	17.0	
	22	17.5	17.5	17.5	
	23	17.5	17.5	17.5	
	24	17.5	17.5	17.5	
	25	17.5	17.5	17.5	
	26	18.0	17.5	17.7	
	27	17.0	17.0	17.0	
	28	17.0	17.0	17.0	
	29	17.0	17.0	17.0	
	30	17.5	17.5	17.5	



16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	31	17.5	17.5	17.5	
	32	18.0	18.0	18.0	
	33	17.5	17.5	17.5	
	34	17.5	17.5	17.5	
	35	17.0	17.0	17.0	
	36	17.5	17.5	17.5	
	37	18.0	17.5	17.7	
	38	17.5	17.5	17.5	
	39	16.0	16.0	16.0	
	40	17.0	17.0	17.0	
	41	17.0	17.0	17.0	
	42	17.5	17.0	17.2	
	43	17.5	17.5	17.5	
	44	17.5	17.0	17.2	
	45	16.5	16.0	16.2	
	46	18.0	18.0	18.0	
	47	17.5	17.0	17.2	
	48	18.0	18.0	18.0	
	49	18.0	18.0	18.0	
	50	17.5	17.5	17.5	
	51	17.5	17.5	17.5	
	52	17.5	17.0	17.2	
	53	17.5	17.5	17.5	
	54	18.0	17.5	17.7	
	55	17.0	16.5	16.7	
	56	18.0	18.0	18.0	
	57	18.0	17.5	17.7	
	58	17.5	17.0	17.2	
	59	17.5	17.0	17.2	
	60	17.5	17.5	17.5	



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Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

61	18.0	18.0	18.0	
62	17.5	18.0	17.7	
63	17.5	17.5	17.5	
64	18.0	18.0	18.0	
65	17.5	17.5	17.5	
66	18.0	17.5	17.7	
67	17.5	18.0	17.7	
68	16.5	16.5	16.5	
69	17.0	17.0	17.0	
70	17.0	17.0	17.0	
71	17.5	17.5	17.5	
72	17.0	17.0	17.0	close to a star
73	16.5	16.5	16.5	
74	16.5	16.5	16.5	
75	16.5	17.0	16.7	
76	17.5	17.5	17.5	
77	17.0	17.0	17.0	
<del>78</del>				Two stars
79	17.5	17.0	17.2	
80	18.0	18.0	18.0	
81	18.0	17.5	17.7	
82	17.5	17.5	17.5	
83	17.0	17.0	17.0	
84	17.5	17.5	17.5	
85	18.0	17.5	17.7	
86	15.5	15.5	15.5	
87	17.0	16.5	16.7	
88	15.5	16.0	15.7	
89	17.0	17.0	17.0	
90	17.5	17.5	17.5	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	91	17.5	17.0	17.2 <sub>5</sub>	
	92	17.0	17.0	17.0 <sup>0</sup>	
	93	17.5	18.0	17.7 <sub>5</sub>	
	94	18.0	17.5	17.7 <sub>5</sub>	
	95	18.0	18.0	18.0	Helix?
	96	18.0	18.0	18.0	
	97	17.5	18.0	17.7 <sub>5</sub>	
	98	17.0	17.0	17.0	
	99	17.0	17.0	17.0	
	100	17.0	17.0	17.0	
	101	17.5	17.0	17.2 <sub>5</sub>	
	102	17.0	16.5	16.7 <sub>5</sub>	
103-168 outside 9 mag. <sup>0</sup>	103	17.0	17.0	17.0	
	104	17.5	17.0	17.2 <sub>5</sub>	
	105	17.0	16.5	16.7 <sub>5</sub>	Helix?
	106	17.5	17.5	17.5	
	107	17.5	18.0	17.7 <sub>5</sub>	
	108	16.5	17.0	16.7 <sub>5</sub>	
	109	17.0	17.5	17.2 <sub>5</sub>	
	110	17.0	16.5	16.7 <sub>5</sub>	
	111	17.0	16.5	16.7 <sub>5</sub>	
	112	17.5	17.5	17.5	Helix?
	113	16.5	16.5	16.5	
	114	18.0	17.5	17.7 <sub>5</sub>	
	115	17.5	17.5	17.5	
	116	17.0	17.0	17.0	
	117	18.0	18.0	18.0	
	118	17.5	17.5	17.5	
	119	17.5	17.0	17.2 <sub>5</sub>	
	120	<del>18.0</del> 17.5	17.5	17.7 <sub>5</sub>	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
-	121	15.5	16.0	15.7	
	122	16.5	16.5	16.5	
	123	17.0	16.5	16.7	
	124	17.5	17.0	17.2	
	125	17.0	16.5	16.7	
	126	17.0	16.5	16.7	
	127	16.5	16.0	16.2	
	128	17.5	17.0	17.2	
	129	17.0	16.5	16.7	
	130	17.5	17.0	17.2	
	131	16.0	16.0	16.0	
	132	17.0	17.0	17.0	
	133	18.0	17.5	17.7	
	134	17.5	17.0	17.2	
	135	16.5	16.5	16.5	
	136	17.5	17.0	17.2	attached to <sup>faint</sup> star
	137	17.0	17.0	17.0	
	138	17.5	17.5	17.5	
	139	17.5	17.0	17.2	
	140	16.5	16.0	16.2	
	141	17.0	16.5	16.7	
	142	17.5	17.0	17.2	
	143	17.0	17.0	17.0	
	144	17.5	17.0	17.2	
	145	17.5	17.0	17.2	
	146	17.5	17.0	17.2	
	147	18.0	18.0	18.0	
	148	18.0	18.0	18.0	
	149	17.5	17.5	17.5	
	150	18.0	18.0	18.0	



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Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

151 16.5 16.5 16.5

152 17.5 18.0 17.5

153 15.5 15.5 15.5

154 16.0 16.5 16.2

155 17.0 17.0 17.0

156 18.0 18.0 18.0

~~157~~

158 18.0 18.0 18.0

159 17.5 17.5 17.5

160 17.5 17.5 17.5

161 17.5 17.5 17.5

Scratch runs thro image

162 17.5 18.0 17.5

163 17.5 18.0 17.5

164 17.5 17.5 17.5

165 17.0 17.0 17.0

166 16.5 16.0 16.2

167 17.0 16.5 16.5

168 18.0 18.0 18.0

169 17.5 17.5 17.5

170 17.5 18.0 17.5

171 18.0 18.0 18.0

172 18.0 18.0 18.0

173 17.5 17.0 17.2

174 17.5 18.0 17.5

175 18.0 17.5 17.5

176 17.5 17.5 17.5

177 18.0 17.5 17.5

178 18.0 18.0 18.0

179 17.5 17.5 17.5

180 16.5 16.5 16.5



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	181	17.5	17.5	17.5	
	182	18.0	18.0	18.0	
✓	183	17.5	17.0	17.2	
-	184	15.5	15.5	15.5	
	185	18.0	18.0	18.0	
	186	18.0	18.0	18.0	
	187	16.5	16.5	16.5	
	188	17.0	17.0	17.0	
	189	16.5	16.5	16.5	
	190	17.5	17.0	17.2	
	191	17.5	17.5	17.5	
	192	16.5	16.5	16.5	
	193	18.0	17.5	17.7	
	194	18.0	17.5	17.7	
	195	17.0	17.0	17.0	
	196	17.0	17.0	17.0	
	197	17.5	17.5	17.5	
	198	17.0	17.0	17.0	
	199	17.5	17.0	17.2	
	200	17.0	17.0	17.0	
	201	17.5	17.0	17.2	
	202	16.5	16.5	16.5	
	203	17.0	16.5	16.7	
	204	16.5	16.0	16.2	
	205	18.0	17.5	17.7	
	206	17.5	17.5	17.5	
-	207	15.5	15.0	15.2	
	208	18.0	17.5	17.7	
	209	17.5	17.5	17.5	
	210	17.0	17.0	17.0	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	211	18.0	18.0	18.0	
	212	17.0	17.0	17.0	
	213	16.0	16.0	16.0	
	214	16.5	16.5	16.5	
	215	17.5	17.0	17.2	
	216	17.0	17.0	17.0	
	217	17.0	17.0	17.0	
	218	18.0	18.0	18.0	
	219	16.5	16.0	16.2	
	220	16.5	16.5	16.5	
	221	17.0	17.0	17.0	
	222	17.0	17.0	17.0	
	223	17.0	17.0	17.0	
	224	18.0	18.0	18.0	
	225	18.0	18.0	18.0	
	226	18.0	18.0	18.0	
	227	18.0	18.0	18.0	
	228	17.5	17.5	17.5	
	229	17.0	17.5	17.2	
	230	18.0	18.0	18.0	
	231	18.0	17.5	17.5	
	232	18.0	18.0	18.0	
	233	17.5	18.0	17.5	
	234	17.5	18.0	17.5	
	235	16.5	16.5	16.5	
	236	16.5	16.5	16.5	
	237	18.0	17.5	17.5	
	238	17.0	17.0	17.0	
	239	17.0	17.0	17.0	
	240	17.5	17.5	17.5	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
241	17.5	17.5	17.5		
242	18.0	18.0	18.0		
243	15.5	15.5	15.5		
244	17.5	17.5	17.5		
245	16.5	16.5	16.5		
246	17.0	17.0	17.0		
247	18.0	18.0	18.0		
248	17.5	17.5	17.5		
249	17.5	17.0	17.2 <sub>7</sub>		Helula?
250	17.5	17.5	17.5		
251	18.0	18.0	18.0		Helula?
252	17.0	17.5	17.2 <sub>7</sub>		
253	17.0	17.0	17.0		
254	16.0	16.0	16.0		
255	17.5	17.0	17.2 <sub>7</sub>		
256	17.5	18.0	17.7		
257	17.5	17.0	17.2 <sub>7</sub>		
258	18.0	18.0	18.0		
259	17.5	18.0	17.7		
260	17.5	17.5	17.5		
261	17.5	17.5	17.5		
262	17.0	16.5	16.7		
263	18.0	18.0	18.0		
264	17.5	17.5	17.5		
265	16.5	17.0	16.7		
266	16.5	16.0	16.2 <sub>7</sub>		
267	17.5	18.0	17.7		
268	17.0	17.0	17.0		
269	17.5	17.5	17.5		
270	18.0	18.0	18.0		



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
271		18.0	18.0	18.0	
272		17.5	17.5	17.5	
273		17.0	17.0	17.0	
274		18.0	17.5	17.7	
275		17.0	17.0	17.0	
276		<del>17.0</del> 16.5	<del>17.0</del> 16.5	17.0	
277		16.5	16.5	16.5	
278		17.5	17.5	17.5	
279		16.5	16.5	16.5	
280		17.0	17.0	17.0	
281		17.5	17.0	17.2 <sub>5</sub>	
282		17.0	16.5	16.7 <sub>5</sub>	
283		17.0	16.5	16.7 <sub>5</sub>	
284		17.0	17.0	17.0	
285		17.5	17.0	17.2 <sub>5</sub>	
286		16.5	16.5	16.5	
287		17.0	17.0	17.0	
288		16.5	16.0	16.2 <sub>5</sub>	
289		18.0	18.0	18.0	
290		16.5	16.5	16.5	
291		18.0	18.0	18.0	
292		17.0	16.5	16.7 <sub>5</sub>	
293		16.5	16.5	16.5	
294		17.5	17.0	17.2 <sub>5</sub>	
295		17.5	17.0	17.2 <sub>5</sub>	
296		18.0	17.5	17.7 <sub>5</sub>	
297		16.5	17.0	16.7 <sub>5</sub>	
298		18.0	17.5	17.7 <sub>5</sub>	
299		18.0	18.0	18.0	
300		17.0	17.0	17.0	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	301	18.0	18.0	18.0	
	302	17.0	17.0	17.0	
	303	17.5	17.0	17.2	
	304	17.0	17.0	17.0	
	305	18.0	17.5	17.5	
	306	17.5	17.5	17.5	
	307	18.0	18.0	18.0	
	308	16.5	16.5	16.5	
	309	18.0	17.5	17.5	
	310	18.0	17.5	17.5	
	311	18.0	18.0	18.0	
	312	17.0	17.5	17.2	
	313	16.5	16.5	16.5	
	314	17.5	17.5	17.5	
	315	18.0	18.0	18.0	
	316	17.0	17.5	17.2	
	317	17.0	17.0	17.0	
	318	18.0	17.5	17.5	
	319	17.0	16.5	16.5	
	320	17.5	17.0	17.2	
	321	18.0	17.5	17.5	
	322	17.0	17.5	17.2	
	323	16.5	16.5	16.5	
	324	16.5	16.5	16.5	
	325	17.0	17.5	17.2	
	326	17.5	17.5	17.5	
	327	17.5	18.0	17.5	
	328	17.0	17.0	17.0	
	329	18.0	18.0	18.0	
	330	16.5	16.0	16.5	



16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	331	17.5	18.0	17.5	
	332	17.0	17.0	17.0	
	333	17.5	17.5	17.5	
	334	16.5	16.5	16.5	
	335	17.5	17.0	17.2	
	336	17.5	17.5	17.5	
	337	18.0	17.5	17.5	
	338	17.5	17.5	17.5	
	339	18.0	17.5	17.5	
	340	18.0	18.0	18.0	
	341	17.0	17.0	17.0	
	342	17.0	17.0	17.0	
	343	17.0	17.0	17.0	
	344	18.0	18.0	18.0	
	345	16.5	16.5	16.5	
	346	18.0	18.0	18.0	Nebula?
	347	17.5	18.0	17.5	
	348	17.0	17.0	17.0	
	349	17.0	17.0	17.0	
	350	16.5	16.5	16.5	
	351	18.0	17.5	17.5	
	352	17.0	16.5	16.5	
	353	17.5	17.5	17.5	
	354	16.5	16.5	16.5	
	355	17.0	16.5	16.5	
	356	17.5	17.5	17.5	
	357	18.0	17.5	17.5	
	358	18.0	18.0	18.0	
	359	18.0	18.0	18.0	
	360	17.5	17.0	17.2	



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16181

Catalog No.	Current	Mag. 1	Mag. 2	Mean	Remarks
361	17.5	18.0	17.5		
362	18.0	18.0	18.0		
363	17.5	17.0	17.2		
364	17.5	17.5	17.5		
365	16.5	16.5	16.5		
366	16.5	16.5	16.5		
367	17.5	17.0	17.2		
368	16.0	16.0	16.0		
369	17.5	17.0	17.2		
370	17.0	17.0	17.0		
371	17.5	17.5	17.5		
372	18.0	18.0	18.0		
373	17.5	17.0	17.2		
374	18.0	17.5	17.5		
375	18.0	17.5	17.5		
376	18.0	18.0	18.0		
377	17.0	17.0	17.0		
378	17.5	17.5	17.5		
379	17.5	17.0	17.2		
380	17.5	17.5	17.5		
381	17.5	18.0	17.5		
382	16.5	16.0	16.2		
383	17.5	17.5	17.5		
384	17.5	17.0	17.2		
385	17.5	17.5	17.5		
386	15.5	15.5	15.5		
387	17.5	17.5	17.5		
388	18.0	18.0	18.0		
389	18.0	18.0	18.0		
390	17.5	17.5	17.5		



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	391	17.5	17.5	17.5	
	392	17.5	17.0	17.2	
	393	16.0	16.0	16.0	
	394	17.5	17.5	17.5	
	395	18.0	18.0	18.0	
	396	18.0	18.0	18.0	
	397	17.5	17.5	17.5	
	398	17.0	17.0	17.0	
	399	18.0	18.0	18.0	
	400	17.5	17.0	17.2	
	401	17.5	17.5	17.5	
	402	17.5	17.5	17.5	
	403	17.5	17.5	17.5	
	404	16.5	16.5	16.5	
	405	18.0	17.5	17.7	
	406	17.0	17.0	17.0	
	407	17.5	18.0	17.7	
	408	17.5	18.0	17.7	
	409	17.0	17.5	17.2	
	410	16.5	16.5	16.5	
	411	17.5	17.5	17.5	
	412	17.5	18.0	17.7	
	413	18.0	18.0	18.0	
	414	18.0	18.0	18.0	
415 - 486	415	17.0	17.5	17.2	
outside 9 sq.°	416	17.5	17.5	17.5	
	417	16.5	16.5	16.5	
	418	18.0	17.5	17.7	
	419	18.0	18.0	18.0	
	420	17.5	17.5	17.5	



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16181

Catalog No.

Current No. Mag.1 Mag.2 Mean

Remarks

421	17.0	17.5	17.2
422	16.0	16.5	16.2
423	17.5	18.0	17.7
424	17.0	17.0	17.0
425	17.0	17.0	17.0
426	17.5	17.0	17.2
427	16.5	16.5	16.5
428	17.0	16.5	16.7
429	16.5	16.5	16.5
430	18.0	17.5	17.5
431	17.5	17.5	17.5
432	18.0	18.0	18.0
433	18.0	17.5	17.5
434	17.5	17.5	17.5
435	17.5	17.5	17.5
436	17.5	17.5	17.5
437	17.5	17.5	17.5
438	17.5	17.5	17.5
439	17.0	17.0	17.0
440	17.0	17.5	17.2
441	18.0	18.0	18.0
442	18.0	18.0	18.0
443	17.5	18.0	18.0
444	<del>18.0</del> 17.5	18.0	18.0
445	<del>18.0</del> 17.5	17.5	17.5
446	17.5	17.5	17.5
447	16.5	16.0	16.2
448	18.0	18.0	18.0
449	18.0	18.0	18.0
450	18.0	18.0	18.0

Scratch runs thro image

Nebula?



16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	451	17.0	17.0	17.0	
	452	16.5	16.5	16.5	
	453	17.5	17.0	17.2	
	454	18.0	18.0	18.0	
	455	17.5	17.5	17.5	
	456	18.0	18.0	18.0	
	457	17.5	18.0	17.5	
	458	18.0	18.0	18.0	
	459	17.0	17.0	17.0	
	460	17.0	17.0	17.0	
	461	16.5	16.5	16.5	
	462	17.0	17.5	17.2	
	463	16.5	17.0	16.7	
	464	17.5	17.5	17.5	
	465	17.0	17.0	17.0	
	466	16.0	15.5	15.5	
	467	17.5	17.0	17.2	
	468	18.0	17.5	17.5	
	469	17.0	17.0	17.0	
	470	16.5	16.5	16.5	
	471	17.5	17.0	17.2	
	472	17.0	16.5	16.7	
	473	17.5	17.5	17.5	
	474	17.5	17.5	17.5	
	475	17.0	17.5	17.2	
	476	18.0	18.0	18.0	
	477	18.0	18.0	18.0	
	478	17.5	17.5	17.5	
	479	17.0	17.5	17.2	
	480	16.5	17.0	16.7	



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16181

Catalog No.	Current No.	Mag.1	Mag.2	Mean	Remarks
	481	17.0	17.5	17.2 <sub>7</sub>	
	482	17.5	17.5	17.5	Helix?
	483	18.0	18.0	18.0	"
	484	17.5	18.0	17.7	
	485	15.5	15.5	15.5	
	486	17.0	16.5	16.7	
	487	17.5	17.0	17.2 <sub>7</sub>	
488-508 outside 9sq?	488	17.5	17.5	17.5	
	489	17.5	17.0	17.2 <sub>7</sub>	
	490	18.0	18.0	18.0	
	491	17.5	17.5	17.5	
	492	17.5	17.0	17.2 <sub>7</sub>	
	493	17.5	17.0	17.2 <sub>7</sub>	
	494	17.0	16.5	16.7	
	495	16.5	16.5	16.5	
	496	18.0	18.0	18.0	
	497	17.0	17.0	17.0	
	498	17.5	17.0	17.0	
	499	17.0	16.5	16.7	
	500	18.0	17.5	17.7	
	501	17.0	17.0	17.0	
	502	18.0	18.0	18.0	
	503	18.0	18.0	18.0	
	504	18.0	18.0	18.0	
	505	17.5	17.0	17.2 <sub>7</sub>	
	506	16.5	16.5	16.5	
	507	17.5	17.5	17.5	Helix?
	508	17.5	17.5	17.5	
	509	17.0	16.5	16.7	
	510	17.5	17.0	17.2 <sub>7</sub>	



16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	511	17.5	17.5	17.5	
	512	18.0	18.0	18.0	
	513	17.0	17.5	17.2	
	514	17.5	18.0	17.7	
	515	17.0	17.0	17.0	
	516	17.0	16.5	16.7	
	517	17.0	17.5	17.2	
	518	17.0	17.0	17.0	
	519	16.5	16.5	16.5	
	520	18.0	18.0	18.0	
	521	16.5	17.0	16.7	
	522	18.0	18.0	18.0	
	523	18.0	18.0	18.0	
	524	18.0	17.5	17.7	
	525	17.0	17.5	17.2	
	526	17.5	17.5	17.5	
	527	17.5	18.0	17.7	
	528	17.0	17.0	17.0	
	529	18.0	17.5	17.7	
	530	18.0	17.5	17.7	
	531	17.0	16.5	16.7	
	532	17.5	17.5	17.5	
	533	18.0	18.0	18.0	
	534	17.0	17.5	17.2	
	535	17.5	17.5	17.5	attached to a star
	536	17.0	17.5	17.2	
	537	18.0	18.0	18.0	
	538	17.5	18.0	17.7	
	539	17.0	17.0	17.0	
	540	17.5	17.5	17.5	nebula?



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16181

Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

541	17.5	17.5	17.5
542	17.0	17.0	17.0
543	18.0	18.0	18.0
544	17.5	17.5	17.5
545	18.0	18.0	18.0
546	17.5	17.5	17.5
547	18.0	17.5	17.5
548	18.0	17.5	17.5
549	17.0	17.0	17.0
550	17.5	17.5	17.5
551	17.5	18.0	17.5
552	17.0	16.5	16.5
553	17.5	17.0	17.5
554	17.0	17.0	17.0
555	17.0	17.0	17.0
556	17.5	17.5	17.5
557	17.0	17.0	17.0
558	17.0	17.0	17.0
559	17.0	17.0	17.0
560	16.5	16.5	16.5
561	17.5	<del>16.5</del> 17.0	17.2
562	17.0	17.0	17.0
563	17.5	17.0	17.3
564	17.0	17.0	17.0
565	17.5	17.5	17.5
566	18.0	18.0	18.0
567	16.5	16.5	16.5
568	17.0	17.5	17.2
569	17.5	17.5	17.5
570	<del>16.5</del>	17.5	17.5

Close to bright star



16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	571	16.5	16.5	16.5	
	572	<del>17.0</del> 18.0	17.0	17.0	
	573	<del>17.5</del> 18.0	18.0	18.0	
	574	<del>17.5</del> 17.0	17.5	17.5	
	575	<del>17.5</del> 17.0	17.0	17.0	
	576	<del>17.5</del> 17.0	17.5	17.5	
	577	17.0	17.5	17.2	
	578	17.5	17.5	17.5	
	579	17.0	16.5	16.7	
	580	18.0	18.0	18.0	Nebula?
	581	16.5	16.5	16.5	
582-673 outside 9q°	582	17.0	16.5	16.7	
	583	17.5	<del>17.5</del> 17.0	17.5	
	584	16.5	16.5	16.5	
	585	17.5	18.0	17.7	
	586	16.5	17.0	16.7	Nebula?
	587	17.5	17.5	17.5	
	588	17.0	17.5	17.2	
	589	17.5	17.5	17.5	
	590	17.5	18.0	17.7	
	591	17.5	17.5	17.5	
	592	17.5	17.5	17.5	
	593	17.5	18.0	17.7	
	594	16.5	16.5	16.5	
	595	17.0	16.5	16.7	Nebula?
	596	17.5	17.5	17.5	
	597	16.5	16.5	16.5	
	598	17.0	17.0	17.0	
	599	17.0	16.5	16.7	
	600	18.0	18.0	18.0	



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16181

Catalog No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks

601 17.5 17.0 17.2

602 18.0 18.0 18.0

603 18.0 17.5 17.5

604 17.5 17.5 17.5

605 17.5 17.5 17.5

606 18.0 18.0 18.0

607 17.5 17.5 17.5

608 17.0 17.0 17.0

609 17.5 17.5 17.5

610 16.5 16.5 16.5

611 17.5 17.5 17.5

612 17.0 17.0 17.0

613 17.5 18.0 17.5

614 17.5 18.0 17.5

615 17.0 16.5 16.5

616 17.5 17.5 17.5

617 18.0 17.5 17.5

618 16.5 16.0 16.2

619 16.5 16.5 16.5

620 17.5 17.0 17.2

621 17.5 17.5 17.5

622 17.0 16.5 16.5

623 17.5 17.5 17.5

624 17.0 17.0 17.0

625 17.0 17.0 17.0

626 17.0 17.0 17.0

627 18.0 18.0 18.0

628 17.0 17.0 17.0

629 17.0 17.5 17.2

630 16.5 16.5 16.5

Attached to a star



16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	631	18.0	18.0	18.0	
	632	17.0	17.0	17.0	
	633	17.0	17.0	17.0	Nebula?
	634	17.0	17.0	17.0	
	635	17.5	17.5	17.5	
	636	17.0	17.0	17.0	
	637	17.0	17.0	17.0	
	638	17.0	17.0	17.0	
	639	17.5	18.0	17.5	Nebula?
	640	16.5	16.5	16.5	
	641	17.0	17.0	17.0	
	642	17.5	17.5	17.5	
	643	17.5	17.5	17.5	
	644	17.0	17.5	17.2	
	645	16.5	16.5	16.5	
	646	17.5	17.5	17.5	
	647	17.5	17.5	17.5	
	648	17.5	17.5	17.5	
	649	17.0	17.5	17.2	
	650	16.5	16.5	16.5	
	651	18.0	18.0	18.0	
	652	18.0	18.0	18.0	
	653	16.5	16.5	16.5	Near bright star
	654	17.5	17.5	17.5	
	655	17.5	17.0	17.2	
	656	16.5	16.5	16.5	
	657	17.0	16.5	16.7	
	658	17.5	18.0	17.7	
	659	17.5	17.5	17.5	
	660	18.0	18.0	18.0	



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16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	661	17.5	17.5	17.5	
	662	17.0	17.5	17.2	
	663	17.0	17.5	17.2	
	664	17.0	17.5	17.2	
	665	17.5	<del>18.0</del> 17.5	17.5	
	666	18.0	18.0	18.0	
	667	17.5	17.5	17.5	
	668	17.5	17.5	17.5	
	669	17.5	17.5	17.5	
	670	18.0	17.5	17.7	
	671	18.0	18.0	18.0	
	672	17.5	17.0	17.2	
	673	16.5	16.5	16.5	
	674	17.0	17.5	17.2	
	675	17.0	17.0	17.0	
✓	676	17.5	17.5	17.5	
✓	677	17.5	18.0	17.7	
✓	678	17.0	17.0	17.0	
✓	679	18.0	18.0	18.0	
✓	680	17.5	17.5	17.5	
✓	681	17.5	17.5	17.5	
✓	682	18.0	18.0	18.0	
✓	683	18.0	17.5	17.7	
✓	684	17.5	17.0	17.2	
✓	685	17.5	17.5	17.5	
✓	686	17.0	17.0	17.0	
✓	687	17.5	18.0	17.7	
✓	688	17.0	17.0	17.0	
✓	689	17.0	17.0	17.0	
	690	17.0	17.0	17.0	



16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	691	17.0	16.5	16.7	
	692	17.5	17.5	17.5	
✓	693	18.0	17.5	17.7	
✓	694	16.5	16.5	16.5	
✓	695	17.5	18.0	17.7	
✓	696	17.0	17.5	17.2	
✓	697	17.0	16.5	16.7	
✓	698	17.0	17.0	17.0	
✓	699	16.5	16.5	16.5	
✓	700	17.0	16.5	16.7	
✓	701	17.0	17.0	17.0	
✓	702	16.5	16.5	16.5	
	703	16.5	16.5	16.5	
	704	18.0	18.0	18.0	
	705	17.0	17.0	17.0	
	706	17.5	17.5	17.5	
	707	18.0	18.0	18.0	
✓	708	18.0	18.0	18.0	
✓	709	17.5	18.0	17.7	
✓	710	17.5	17.5	17.5	
	711	16.5	16.5	16.5	
	712	16.5	17.0	16.7	
	713	17.5	17.5	17.5	
	714	17.5	17.0	17.2	
	715	18.0	18.0	18.0	
716-868	716	16.5	16.5	16.5	
outside 9	717	17.0	16.5	16.7	
sq. depress	718	17.0	17.0	17.0	
	719	16.5	16.5	16.5	
	720	17.5	17.5	17.5	

Nebula?



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16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	721	17.0	17.0	17.0	
	722	16.5	16.5	16.5	
	723	17.0	17.5	17.2	
	724	17.0	17.0	17.0	
	725	17.5	17.0	17.2	
	726	18.0	18.0	18.0	
	727	18.0	18.0	18.0	Nebula?
	728	17.5	18.0	17.7	
	729	16.5	16.5	16.5	
	730	17.5	17.5	17.5	
	731	17.5	17.5	17.5	
	732	18.0	18.0	18.0	
	733	16.5	16.5	16.5	
	734	17.0	16.5	16.7	
	735	16.5	16.0	16.2	
	736	17.0	16.5	16.7	
	737	16.5	16.5	16.5	
	738	18.0	18.0	18.0	Nebula?
	739	17.5	17.0	17.2	
	740	17.0	17.0	17.0	
	741	18.0	18.0	18.0	
	742	17.5	17.5	17.5	
	743	17.5	17.0	17.2	
	744	17.0	17.0	17.0	
	745	16.5	16.5	16.5	
	746	17.5	17.5	17.5	
	747	17.0	17.0	17.0	
	748	16.5	16.5	16.5	
	749	16.5	16.5	16.5	
	750	17.5	17.5	17.5	



16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	751	17.5	17.5	17.5	
	752	17.0	17.0	17.0	
	753	17.5	18.0	17.5	
	754	17.5	17.0	17.5	
	755	18.0	18.0	18.0	
	756	18.0	18.0	18.0	
	757	17.0	16.5	16.5	
✓	758	15.5	16.0	15.5	
	759	17.0	17.5	17.2	
	760	17.0	17.0	17.0	
	761	17.0	16.5	16.5	Helix?
	762	17.5	17.5	17.5	
	763	17.5	17.5	17.5	
	764	17.0	17.0	17.0	
	765	18.0	17.5	17.5	
	766	16.5	16.5	16.5	
	767	17.5	17.5	17.5	
	768	16.5	16.5	16.5	
	769	17.5	17.5	17.5	
	770	17.5	17.0	17.2	
	771	17.0	17.0	17.0	
	772	17.5	18.0	17.5	
	773	17.5	18.0	17.5	
	774	17.0	17.5	17.2	
	775	17.0	17.5	17.2	
	776	17.0	16.5	16.5	
	777	17.5	17.5	17.5	
	778	17.0	17.0	17.0	
	779	16.5	16.5	16.5	
	780	16.5	16.5	16.5	



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16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	781	17.0	17.0	17.0	
	782	16.5	16.5	16.5	
	783	17.0	17.0	17.0	
	784	17.5	17.5	17.5	
	785	17.0	17.0	17.0	
	786	17.0	17.0	17.0	
	787	16.5	16.5	16.5	
	788	17.0	17.5	17.2	
	789	17.0	17.5	17.2	
	790	17.0	16.5	16.7	
	791	17.0	17.0	17.0	
	792	17.5	17.0	17.2	
	793	17.5	17.0	17.2	
	794	17.5	17.0	17.2	
	795	17.0	17.0	17.0	
	796	18.0	18.0	18.0	Nelula?
	797	17.5	17.5	17.5	
	798	17.0	16.5	16.7	
	799	16.5	16.5	16.5	
	800	16.0	16.0	16.0	
	801	18.0	18.0	18.0	
	802	16.5	16.5	16.5	
	803	16.5	16.5	16.5	
	804	16.5	16.0	16.2	
	805	17.5	17.5	17.5	
	806	17.0	16.5	16.7	
	807	17.0	16.5	16.7	
	808	17.0	17.5	17.2	
	809	17.5	17.0	17.2	
	810	16.5	16.0	16.2	



16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	811	16.5	16.5	16.5	
	812	17.0	17.0	17.0	
	813	17.5	17.5	17.5	
	814	17.5	17.0	17.2	
	815	17.0	16.5	16.7	
	816	16.5	16.5	16.5	
	817	17.5	17.5	17.5	
	818	17.0	16.5	16.7	
	819	16.5	16.5	16.5	
	820	17.0	17.0	17.0	
	821	16.5	16.0	16.2	
	822	16.5	16.5	16.5	
	823	17.5	17.0	17.2	
	824	17.0	17.0	17.0	
	825	16.5	16.5	16.5	
	826	17.0	16.5	16.7	
	827	17.5	17.5	17.5	
	828	16.0	16.0	16.0	
	829	18.0	18.0	18.0	
	830	16.5	17.0	16.7	
	831	17.5	17.5	17.5	
	832	17.0	17.0	17.0	
	833	16.5	17.0	16.7	
	834	17.5	17.5	17.5	
	835	17.0	17.0	17.0	
	836	16.5	16.5	16.5	
	837	17.0	16.5	16.7	
	838	17.5	17.0	17.2	
	839	18.0	17.5	17.7	
	840	18.0	17.5	17.7	



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Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

841 17.0 17.0 17.0

842 18.0 17.5 17.5

Nebula?

843 17.5 17.5 17.5

"

844 17.5 17.0 17.2

845 16.5 16.5 16.5

846 17.5 17.0 17.2

847 18.0 18.0 18.0

Nebula?

848 17.0 17.0 17.0

849 17.0 17.0 17.0

850 17.0 17.5 17.2

Nebula?

851 17.0 17.5 17.2

852 16.5 16.5 16.5

853 17.5 17.5 17.5

Nebula?

854 16.5 16.0 16.2

855 17.0 17.5 17.2

856 17.0 17.0 17.0

Nebula?

857 17.0 16.5 16.5

858 17.0 16.5 16.5

859 17.0 17.0 17.0

860 16.5 17.5 17.5

861 16.5 16.5 16.5

862 17.0 17.0 17.0

863 17.0 16.5 16.5

864 17.0 17.0 17.0

865 16.5 16.5 16.5

866 15.5 15.5 15.5

867 17.0 16.5 16.5

868 17.0 17.0 17.0

15.5 15.0 15.2

16.0 15.5 15.5

✓ NGC 993 }  
 ✓ NGC 994 }  
 ✓ -1004 }



SPPHIA

SPPHIA

16181

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓ 1007		16.5	16.5	16.5	
✓ 1008		15.0	15.5	15.2	
✓ 1009		16.5	16.0	16.2	
✓ 1015		14.5	14.0	14.2	
✓ 1016		14.0	14.5	14.2	
✓ 1019		16.0	16.0	16.0	
✓ 1020		15.5	16.0	15.7	
✓ 1021		16.0	16.5	16.2	
✓ 1032		14.0	13.5	13.7	
✓ 1037 - ?		16.0	16.5	16.2	
✓ 1038 -		15.0	15.0	15.0	
✓ 1043		15.5	15.5	15.5	
✓ 1055				12.0 (A.A.)	
✓ 1068				10.0 (A.A.)	
✓ 1072		15.5	15.5	15.5 mean	
✓ 1073				12.0 (A.A.)	
✓ 1087				11.2 (A.A.)	
✓ 1090				12.8 (A.A.)	
✓ 1094		15.0	14.5	14.7	
✓ 1104		16.0	15.5	15.7	
✓ 1121		14.5	15.0	14.7	
✓ 1126		16.0	15.5	15.7	
✓ 1132		14.5	15.0	14.7	
✓ 1141		16.0	15.5	15.7	
✓ 1142		15.5	15.5	15.5	
✓ 1143		15.5	15.5	15.5	attached to 1144
✓ 1144		15.0	15.0	15.0	attached to 1143
✓ 1149		16.0	16.0	16.0	

IC

✓ 236	16.5	16.5	16.5	
- 237	16.0	15.5	15.7	
- 241	14.5	15.0	14.7	
✓ 244	15.5	15.5	15.5	
✓ 246	15.5	15.5	15.5	
263				N.S.
264				N.S.
✓ 273	15.5	15.0	15.2	
1827	15.0	15.0	15.0	attached to a star
1834				N.S.
1836				N.S.
1837	17.0	17.0	17.0	
✓ 1843	15.0	14.5	14.7	
1856	15.5	15.5	15.5	
✓ 1870	15.5	15.0	15.2	

Hole  
Defect in image



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14992

1041

A14992

Catalog. No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
Nos. 1-209	1	17.5	17.5	17.5	
outside 9 sq.°	2	16.5	17.0	16.7	
Also all nos.	3	16.5	17.0	16.7	
checked in red.	4	18.0	18.0	18.0	
	5	18.0	18.0	18.0	
	6	17.5	17.5	17.5	Nebula?
	7	18.0:	18.0:	18.0:	Scratch runs thru image.
	8	17.5	17.5	17.5	
	9	18.0	18.0	18.0	
	10	17.5	18.0	17.7	
	11	18.0	18.0	18.0	
	12	17.5	17.5	17.5	
	13	18.0	18.0	18.0	Nebula?
	14	17.5	18.0	17.7	
	15	17.5	17.5	17.5	
	16	17.5	17.5	17.5	
	17	18.0	18.0	18.0	Nebula?
	18	18.5:	18.5:	18.5	Scratch on image.
	19	18.0	18.0	18.0	Nebula?
	19a	17.5	18.0	17.7	
	20	17.5	17.5	17.5	
	21	18.0	18.0	18.0	
	22	<del>18.0</del>			not seen
	23	18.0	17.5	17.7	
	24	17.0	17.5	17.2	
	25	16.5	17.0	16.7	
	26	17.0	17.5	17.2	
	27	16.5	17.0	16.7	
	28	17.0	17.5	17.2	
	29	17.0	17.5	17.2	
	30	17.5	18.0	17.7	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	31	17.5	18.0	17.7	
	32	17.5	17.5	17.5	
	33	17.5	17.5	17.5	
	34	18.0	18.0	18.0	
	35	17.5	17.5	17.5	
	36	17.5	17.5	17.5	
	37	18.0	17.5	17.7	
	38	17.5	17.5	17.5	
	39	18.5	18.0	18.2	
	40	18.0	18.0	18.0	
	41	17.5	17.5	17.5	
	42	18.0	18.0	18.0	
	43	18.0	18.0	18.0	
	44	17.0	17.5	17.2	
	45	18.0	18.0	18.0	
	46	16.0	16.5	16.2	
	47	17.5	17.5	17.5	
	48	17.5	17.5	17.5	
	49	16.0	16.5	16.2	
	50	17.5	17.5	17.5	
	51	18.0	18.0	18.0	
	52	18.0	17.5	17.7	
	53	18.5	18.0	18.2	
	54	18.5	18.0	18.2	
	55	17.5	17.0	17.2	
	56	18.0	17.5	17.7	
	57	18.5	18.5	18.5	
	58	17.5	17.5	17.5	
	59	18.0	17.5	17.7	
	60	18.5	18.0	18.2	



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Catalog No.

Current No. Mag. 1 Mag. 2 Mean

Remarks

61	18.0	17.5	17.7
62	18.0	18.0	18.0
63	18.0	18.0	18.0
64	17.5	18.0	17.7
65	18.0	18.0	18.0
66	16.0	16.0	16.0
67	17.5	17.5	17.5
68	17.5	17.5	17.5
69	18.0	18.0	18.0
70	18.5	18.5	18.5
71	18.0	17.5	17.7
72	18.0	17.5	17.7
73	17.0	17.0	17.0
74	17.0	17.0	17.0
75	18.5	18.0	18.2
76	18.5	18.0	18.2
77	17.5	17.5	17.5
78	18.5	18.5	18.5
79	18.0	18.5	18.2
80	18.0	18.0	18.0
81	18.5	18.0	18.2
82	18.0	18.0	18.0
83	17.5	17.5	17.5
84	18.0	18.5	18.2
85	18.0	18.0	18.0
86	17.5	17.5	17.5
87	17.5	17.5	17.5
88	17.5	17.5	17.5
89	18.5	18.0	18.2
90	17.5	17.0	17.2



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Catalog. No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
91		17.5	17.5	17.5	
92		18.0	17.5	17.7	
93		17.0	17.0	17.0	
94		18.0	18.0	18.0	
95		18.0	17.5	17.7	
96		18.5	18.0	18.2 <sub>7</sub>	nebula?
97		18.5	18.0	18.2 <sub>7</sub>	
98		18.5	18.0	18.2 <sub>7</sub>	
99		18.0	18.0	18.0	
100		18.0	18.0	18.0	nebula?
101		18.0	18.0	18.0	
102		18.5	18.0	18.2 <sub>7</sub>	
103		17.5	17.5	17.5	
104		17.0	17.0	17.0	
105		17.5	17.0	17.2 <sub>7</sub>	
106		17.5	17.0	17.2 <sub>7</sub>	
107		18.5	18.0	18.2 <sub>7</sub>	
108		18.0	18.0	18.0	
109		17.5	17.5	17.5	
110		17.5	17.5	17.5	nebula?
111		18.0	18.0	18.0	
112		17.0	17.0	17.0	
113		17.5	17.5	17.5	
114		18.5	18.0	18.2 <sub>7</sub>	
115		18.0	17.5	17.7	
116		18.0	18.0	18.0	
117		18.0	18.0	18.0	
118					Lost on cracked plate
118 <sup>w</sup>		18.0	17.5	17.7	nebula?
119		18.0	18.0	18.0	
120		18.0	18.0	18.0	



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Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

121 18.0 17.5 17.7

122

Covered by metal strip <sup>in</sup> including

123 18.0 18.0 18.0

124 18.0 18.0 18.0

nebula ?

125 18.0 17.5 17.7

" ?

126 17.5 17.5 17.5

127 17.5 18.0 17.7

128 16.5 17.0 16.7

129 17.5 17.5 17.5

130 ~~17.5~~ 17.0 17.2

131 18.0 18.0 18.0

132 17.5 17.5 17.5

133 17.5 17.5 17.5

134 18.0 17.5 17.7

135 18.0 18.0 18.0

136 18.0 17.5 17.7

137 18.0 18.0 18.0

138 17.5 17.5 17.5

139 18.5 18.5 18.5

nebula ?

140 18.0 18.0 18.0

141 18.0 18.0 18.0

142 18.0 18.0 18.0

143 17.5 17.0 17.0

144 ~~17.5~~ 17.5 17.5

145 18.0 18.5 18.2

146 18.0 18.0 18.0

147 18.5 18.5 18.5

148 17.5 17.5 17.5

149 18.0 18.0 18.0

150 18.0 18.0 18.0



<u>14992</u>					
Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
151	18.0	18.0	18.0		
152	18.0	18.0	18.0		
153	15.5	16.0	15.7		
154	18.0	18.0	18.0		Nebula?
155	17.5	<del>18.0</del> <sup>17.5</sup>	17.5		
156	18.0	18.5	18.2		
157	17.0	17.5	17.2		
158	18.0	18.0	18.0		Nebula?
159	17.0	17.0	17.0		
160	18.0	17.5	17.7		
161	18.5	18.5	18.5		
162	17.0	17.0	17.0		
163	17.5:	17.5:	17.5		FAINT STAR ATTACHED
164	17.5	17.0	17.2		
165	18.0	17.5	17.7		
166	17.5	17.5	17.5		Nebula?
167	17.5	17.5	17.5		
168	17.5	17.5	17.5		
<del>168</del> <sup>168a</sup>	18.0	<del>17.5</del>	17.7		
169	18.0	18.0	18.0		
170	18.0	18.0	18.0		
<del>171</del>					Double star
172	18.0:	17.5:	17.7:		Faint star attached
173	18.0	17.5	17.7		
174	17.5	17.5	17.5		
175	18.0	18.0	18.0		
176	18.0	18.0	18.0		
177	17.0:	17.0:	17.0:		Star attached
178	18.0	18.0	18.0		
179	18.5	18.5	18.5		
180	18.0	18.0	18.0		



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Catalog No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks

181	18.0	18.0	18.0
182	18.0	18.5	18.2 <sub>7</sub>
183	18.0	18.0	18.0
184	18.0	18.0	18.0
185	18.5	18.0	18.2 <sub>4</sub>
186	17.0	17.5	17.2 <sub>4</sub>
187	17.0	17.0	17.0
188	17.5	17.5	17.5
189	18.0	17.5	17.7
190	17.5	17.5	17.5
191	17.0	17.0	17.0
192	17.0	17.0	17.0
193	18.0	17.5	17.7
194	17.5	17.5	17.5
195	18.5	18.0	18.2 <sub>4</sub>
196	17.0	17.0	17.0 <sub>2</sub>
197	17.5	17.0	17.2 <sub>4</sub>
198	18.0	17.5	17.7
199	17.0	17.5	17.2 <sub>4</sub>
200	18.5	18.5	18.5
201	18.0:	18.0:	18.0:
202	17.5	17.5	17.5
203	18.0	18.0	18.0
204	18.5	18.5	18.5
205	18.0	18.0	18.0
206	18.5	18.0	18.2 <sub>4</sub>
207	17.5	17.5	17.5
208	18.5	18.0	18.2 <sub>4</sub>
209	18.0	18.0	18.0
210	18.0	18.0	18.0

Nebula?

Scratch runs thru image



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	211	17.5	17.5	17.5	
	212	18.0	18.0	18.0	
	213	18.0	18.0	18.0	
	214	18.5	18.0	18.2 <sub>1</sub>	
✓	215	17.5	17.5	17.5 <sub>✓</sub>	
	216	18.0	18.0	18.0	
✓	217	17.5	17.5	17.5 <sub>↓</sub>	
✓	218	17.5	17.5	17.5	
✓	219	18.0	18.0	18.0	
✓	220	18.0	18.0	18.0 <sub>↑</sub>	
	<del>221</del>				No such no.
✓	222	18.0	18.0	18.0 <sub>↓</sub>	
✓	223	18.0	17.5	17.7	
✓	224	18.5	18.5	18.5	
✓	225	18.5	18.0	18.2 <sub>1</sub>	
✓	226	18.0	18.0	18.0	
✓	227	16.0	16.5	16.2 <sub>1</sub>	
✓	228	17.5	17.5	17.5	
✓	229	18.5	18.0	18.2 <sub>1</sub>	
✓	230	18.5	18.0	18.2 <sub>1</sub>	
✓	231	18.0	18.0	18.0	
✓	232	18.0	17.5	17.7	
✓	233	18.0	17.5	17.7 <sub>↑</sub>	
	234	18.0	18.0	18.0	
	235	18.0	18.0	18.0	
	236	18.5	18.0	18.0	
	237	18.5	18.0	18.0	
✓	238	18.0	18.0	18.0 <sub>✓</sub>	
✓	239	18.5	18.5	18.5 <sub>✓</sub>	
	240	18.0	18.0	18.0	



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Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

241 17.5 17.5 17.5

242 18.5 18.0 18.2

243 18.5 18.5 18.5

244 18.0 18.0 18.0

245 18.0 18.5 18.2

nebula?

246 18.5 18.5 18.5

247 18.5 18.0 18.2

248 18.0 18.0 18.0

249 17.5 17.5 17.5

250 17.5 17.5 17.5

251 17.0 17.0 17.0

252 18.0 17.5 17.7

nebula?

253 17.5 17.5 17.5

254 17.5 17.5 17.5

255 17.0 17.0 17.0

256 17.5 17.5 17.5

257 18.0 17.5 17.7

257<sub>ω</sub> 18.0 18.0 18.0

nebula?

258 17.5 17.5 17.5

259 18.0 18.0 18.0

260 18.5 18.5 18.5

261 18.0 18.0 18.0

262 17.0 17.0 17.0

263 17.5 17.5 17.5

264 18.0 18.0 18.0

265 18.0 17.5 17.7

266 17.0 17.5 17.2

267 18.0 18.0 18.0

268 16.5 16.0 16.2

269 18.0 17.5 17.7

270 17.5 17.5 17.5



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Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

271	18.5	18.5	18.5
272	18.5	18.0	18.2
273	18.5	18.5	18.5
274	18.0	18.0	18.0
275	18.0	18.0	18.0
276	18.0	18.0	18.0
277	17.5	17.5	17.5
278	18.0	18.0	18.0
279	18.0	18.0	18.0
280	17.5	17.5	17.5
281	17.0	17.0	17.0
282	18.0	17.5	17.7
283	18.0	18.0	18.0
284	18.0	18.0	18.0
285	18.0	18.0	18.0
286	17.5	18.0	17.7
287	17.5	17.5	17.5
288	<del>17.5</del> 18.5	17.5	17.5
289	18.0	18.0	18.0
290	18.0	18.0	18.0
291	17.0	17.0	17.0
292	18.0	18.5	18.2
293	18.0	18.0	18.0
294	17.5	17.5	17.5
295	18.5	18.5	18.5
296	18.0	18.5	18.2
297	18.0	18.0	18.0
298	18.0	18.0	18.0
299	18.0	18.0	18.0
300	18.0	18.0	18.0

Nebula ?



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Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

301	18.0	18.0	18.0
302	18.0	18.0	18.0
303	17.5	17.5	17.5
304	18.0	18.0	18.0
305	18.5	18.0	18.2
306	17.0	17.0	17.0
307	18.0	17.5	17.7
308	18.5	18.0	18.2
309	18.5	18.0	18.2
310	18.0	18.0	18.0
311	17.5	17.5	17.5
312	17.5	17.5	17.5
313	18.0	18.0	18.0
314	18.0	18.0	18.0
315	17.0	17.5	17.2
316	18.5	18.5	18.5
317	17.5	17.5	17.5
318	17.5	18.0	17.7
319	17.5	17.5	17.5
320	18.0	18.0	18.0
321	17.5	18.0	17.7
322	18.0	18.0	18.0
323	18.0	18.0	18.0
324	18.0	18.0	18.0
325	18.0	18.5	18.2
326	17.5	17.5	17.5
327	18.0	18.0	18.0
328	18.5	18.5	18.5
329	18.0	17.5	17.7
330	18.0	18.0	18.0



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
Mr. 331-360	331	18.0	17.5	17.7	
outside 9 sq.	332	18.0	17.5	17.7	
	333	18.0	17.5	17.7	
	334	18.5	18.5	18.5	
	335	18.0	18.0	18.0	
	336	18.0	18.0	18.0	
	337	17.5	17.5	17.5	
	338	17.5	17.5	17.5	
	339	17.5	17.5	17.5	
	340	17.5	18.0	17.7	
	341				Covered up by metal strips in mending plate
	342	17.5	17.5	17.5	
	343	18.5	18.5	18.5	
	344	18.5	18.5	18.5	
H. 505 =	345	17.0	16.5	16.7	
	346	17.5	17.0	17.2	
	347	18.0	18.0	18.0	
	348	18.0	18.5	18.2	
	349	18.0	18.0	18.0	
	350	17.5	17.5	17.5	
	351	17.5	17.5	17.5	
	352	17.5	17.5	17.5	
	353	18.0	18.5	18.2	Nebula?
	354	18.0	18.0	18.0	
	355	18.0	17.5	17.7	Star close
	356	18.0	17.5	17.7	
	357	18.0	17.5	17.7	
	358	18.0	17.5	17.7	
	359	18.0	18.0	18.0	
	360	18.0	18.0	18.0	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	361	18.0	18.0	18.0	
	362	18.0	18.0	18.0	
	363	18.0	18.0	18.0	
	364	18.0	18.0	18.0	
	365	17.5	17.5	17.5	
	366	18.0	17.5	17.7	
✓	367	18.0	18.0	18.0	
✓	368	18.5	18.5	18.5	
✓	369	17.5	17.5	17.5	
✓	370	18.0	18.0	18.0	
	371	18.0	18.5	18.2	
	372	17.5	17.5	17.5	Star close
	373	17.5	17.5	17.5	
	374	17.5	17.5	17.5	
	375	18.0	18.0	18.0	
	376	18.0	17.5	17.7	
	377	17.5	17.5	17.5	
	378	17.5	17.5	17.5	
	379	16.5	16.5	16.5	
	380	17.5	18.0	17.7	
	381	17.5	17.5	17.5	Nebula?
	382	18.0	18.0	18.0	
	383	18.0	18.0	18.0	
	384	17.5	17.5	17.5	
	385	17.5	17.5	17.5	
	386	18.0	18.0	18.0	
	387	18.0	18.0	18.0	
	388	18.0	18.0	18.0	
	389	18.0	18.0	18.0	
	390	17.5	17.5	17.5	
	390 <sup>∞</sup>	18.5	18.5	18.5	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	391	18.5	18.0	18.2	
	392	18.0	18.0	18.0	
	393	18.0	18.0	18.0	
	394	17.5	17.5	17.5	
	395	18.5	18.5	18.5	
	396	18.0	18.0	18.0	
	397	17.0	17.5	17.2	
	398	18.5	18.5	18.5	
	399	18.0	18.0	18.0	
	400	18.0	17.5	17.7	
	401	18.0	18.0	18.0	
	402	18.5	18.5	18.5	
	403	18.0	18.0	18.0	
	404	17.5	17.5	17.5	
	405	18.0	18.0	18.0	
	406	18.0	18.0	18.0	
	407	18.0	18.0	18.0	
	408	17.5	17.5	17.5	
	409	17.5	17.5	17.5	
	410	<del>17.5</del> 18.0	17.5	17.5	
	411	18.0	18.0	18.0	
	412	18.0	18.0	18.0	
	413	18.0	18.0	18.0	
	414	18.0	18.0	18.0	
	415	18.0	18.0	18.0	
	416	18.5	18.0	18.0	
	417	18.5	18.5	18.5	
	418	18.0	18.5	18.2	
	419	18.0	18.5	18.2	
	420	17.0	17.5	17.2	

nos. 415-445  
outside page



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	421	17.5	17.5	17.5	
	422	17.5	17.5	17.5	
	423	18.0	18.0	18.0	
	424	18.5	18.5	18.5	
	425	18.0	18.0	18.0	
	426	18.0	18.0	18.0	
	427	17.5	17.0	17.25	
	428	17.5	17.5	17.5	
	429	18.0	18.5	18.25	
	430				Star
	431	18.0	18.0	18.0	
	<del>432</del>	18.5	18.5	18.5	<del>Not seen</del>
	433	17.5	18.0	17.7	
	434	17.5	17.5	17.5	
	435	17.5	18.0	17.7	
	436	18.5	18.5	18.5	nebula?
	437	17.5	18.0	17.7	
	438	18.0	18.5	18.25	
	439	18.0	18.5	18.25	
	<del>440</del>	18.0	18.0	18.0	<del>Not seen</del>
	441	17.5	18.0	17.7	
	442	17.5	18.0	17.7	
	443	17.5	18.0	17.7	
	444	18.0	18.5	18.25	nebula?
	445	18.0	18.0	18.0	
	446	16.5	16.0	16.25	
✓	447	18.0	18.0	18.0	
✓	448	17.5	18.0	17.7	
✓	449	18.5	18.5	18.5	nebula?
	450	18.0	18.0	18.0	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	451	17.5	17.0	17.2	
	452	17.5	17.5	17.5	
	453	18.0	18.0	18.0	
	454	17.5	18.0	17.7	
	455	18.5	18.0	18.2	
	456	18.0	18.0	18.0	
	457	18.0	18.0	18.0	
	458	18.5	18.0	18.2	
	459	18.0	18.0	18.0	
	460	18.0	18.0	18.0	
	461	18.0	18.0	18.0	
	462	18.0	18.0	18.0	
	463	17.5	17.5	17.5	
	464	17.5	17.5	17.5	
	465	17.5	17.5	17.5	
	466	18.0	18.0	18.0	
	467	17.5	17.5	17.5	
	468	18.0	18.5	18.2	
✓	469	18.0	18.0	18.0	
✓	470	18.0	18.0	18.0	
✓	471	17.5	17.5	17.5	
✓	472	18.0	18.0	18.0	
✓	473	18.0	18.0	18.0	
✓	474	18.0	18.0	18.0	
✓	475	18.0	17.5	17.7	
✓	476	18.0	18.0	18.0	
✓	477	18.0	18.0	18.0	
	478	18.0	18.0	18.0	
	479	18.0	18.0	18.0	
	480	18.5	18.5	18.5	



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Catalog No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks

481	18.0	18.5	18.2	
482	17.5	17.5	17.5	
✓ 483	18.0	18.0	18.0	
✓ 484	17.5	18.0	17.7	
485	17.5	17.5	17.5	
486	17.5	17.5	17.5	
487	18.0	18.0	18.0	
488	17.5	17.5	17.5	
489	18.0	18.0	18.0	
490	17.5	17.5	17.5	
491	18.0	18.0	18.0	
492	18.0	18.0	18.0	
493	18.0	18.0	18.0	
494	17.5	18.0	17.7	
495	18.0	18.0	18.0	
496	17.5	18.0	17.7	
497	18.0	18.5	18.2	
498	18.5	18.0	18.2	
499	18.0	17.5	17.7	
500	18.0	18.0	18.0	
501	17.5	18.0	17.7	
502	18.0	18.0	18.0	
503	17.5	17.5	17.5	
504	18.0	18.5	18.2	
505	17.5	17.5	17.5	
506	18.0	18.0	18.0	
507	18.0	18.0	18.0	
508	18.0	18.0	18.0	
509	17.5	17.5	17.5	
510	17.5	17.5	17.5	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Means	M	Remarks
	511					not seen - Star
	512	18.0	18.0	18.0		
	513	17.5	18.0	17.7		
	514	17.5	18.0	17.7		
	515	18.5	18.5	18.5		
	516	17.5	18.0	17.7		
	517	18.0	18.0	18.0		
	518	18.0	18.0	18.0		
	519	17.5	17.5	17.5		
	520	17.5	<del>18.0</del> 17.5	17.5		
	521	18.5	<del>18.5</del> 18.0	18.2		
	522	18.5	18.0	18.2		
	523	17.5	17.5	17.5		
	524	18.0	18.0	18.0		
	525	18.0	18.0	18.0		
	526	18.0	18.0	18.0		
	527	17.5	17.5	17.5		
	528	18.0	18.5	18.2		
	529	17.5	18.0	17.7		Nebula ??
	530	17.5	17.5	17.5		
	531	17.5	18.0	17.7		Nebula ?
	532	17.5	17.5	17.5		
	533	17.5	18.0	17.7		
	534	18.5	18.5	18.5		Nebula ?
	535	18.0	18.5	18.2		
	536	17.5	17.5	17.5		
	537	17.5	18.0	17.7		
	538	<del>18.0</del> 17.5	18.5	18.2		
	539	18.0	18.5	18.2		
	540	18.0	17.5	17.7		



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14992

Catalog No.

Invent No.

Mag. 1

Mag. 2

Mean

Remarks

	541	18.0	18.5	18.2 <sub>v</sub>	
	542	18.0	18.0	18.0	
	543	18.0	18.5	18.2 <sub>v</sub>	
	544	18.0	18.0	18.0	
	545	18.0	18.0	18.0	
	546	17.0	17.5	17.2 <sub>v</sub>	
	547	17.5	17.5	17.5	
	548	17.5	17.5	17.5	
	549	17.5	<del>18.0</del> 17.5	17.5	
	550	18.0	18.0	18.0	
	551	18.0	18.0	18.0	
✓	552	17.5	17.5	17.5 <sub>v</sub>	
✓	553	18.0	18.0	18.0 <sub>v</sub>	
✓	554	18.0	18.0	18.0 <sub>v</sub>	
	555	17.0	16.5	16.7	
	556	18.0	18.0	18.0	
	557	18.0	17.5	17.7	
	558	17.5	17.5	17.5	
	559	18.0	18.5	18.2 <sub>v</sub>	
	560	18.0	18.0	18.0	
	561	18.0	17.5	17.7	
✓	562	18.5	18.0	18.2 <sub>v</sub>	
✓	563	18.0	18.0	18.0 <sub>v</sub>	
	564				not found on plate
	565				" " " "
	566				" " " "
✓	567	17.5	17.5	17.5 <sub>v</sub>	
✓	568	18.5	18.0	18.2 <sub>v</sub>	
✓	569	18.0	18.5	18.2 <sub>v</sub>	
✓	570	18.0	18.0	18.0 <sub>v</sub>	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	571	18.5	18.5	18.5 ✓	
	572	18.0	18.0	18.0	
✓	573	18.0	18.0	18.0 ✓	
✓	574	17.5	18.0	17.7	
✓	575	18.0	18.5	18.2	
✓	576	17.5	17.5	17.5	
✓	577	18.0	18.0	18.0	
✓	578	18.0	18.0	18.0	
✓	579	17.0	17.0	17.0	
✓	580	17.5	18.0	17.7 ↑	
	581	17.5	17.5	17.5	
	582	18.0	18.0	18.0	
	583	18.0	18.0	18.0	
	584	18.0	18.0	18.0	
	585	18.0	18.0	18.0	
	586	18.0	18.0	18.0	
	587	17.0	17.5	17.2	
	588	18.0	18.0	18.0	
	589	18.0	18.0	18.0	
	590	18.0	18.0	18.0	
	591	18.0	18.0	18.0	
	592	18.0	18.0	18.0	
	593	18.0	18.0	18.0	
	594	18.0	18.0	18.0	
	595	17.5	17.5	17.5	Nebula ? ?
	596	18.0	18.0	18.0	
	597	18.0	18.0	18.0	
	598	18.0	18.0	18.0	
	599	18.0	18.0	18.0	
	600	18.0	18.0	18.0	



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Catalog No. Invent No. Mag. 1 Mag. 2 Mean Remarks

601	18.0	18.0	18.0
602	18.0	18.0	18.0
603	18.0	17.5	17.7
604	17.5	17.5	17.5
605	18.0	18.0	18.0
606	17.5	17.5	17.5
607	17.5	18.0	17.7
608	17.5	17.5	17.5
609	18.0	18.0	18.0
610	17.0	17.5	17.2
611	17.0	17.5	17.2
612	17.5	18.0	17.7
613	18.0	18.0	18.0
614	17.5	17.5	17.5
615	18.0	18.0	18.0
616	18.0	18.0	18.0
617	18.0	18.0	18.0
618	18.0	18.0	18.0
619	18.0	18.0	18.0
620	18.0	18.0	18.0
621	18.0	18.5	18.2
622	18.0	18.0	18.0
623	17.5	18.0	17.7
624	17.5	18.0	17.7
625	17.5	18.0	17.7
626	18.0	18.5	18.2
627	18.0	18.0	18.0
628	18.0	18.5	18.2
629	17.5	17.5	17.5
630	17.5	17.5	17.5



14992

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	631	15.0	15.0	15.0	
	632	17.5	17.5	17.5	
	633	18.0	18.0	18.0	
	634	17.5	17.5	17.5	
	635	16.5	17.0	16.7	
	635a	18.0	18.0	18.0	
	636	18.0	18.0	18.0	
	637	18.0	18.0	18.0	
	638	18.0	18.0	18.0	
	639	18.0	18.0	18.0	
	640	17.0	17.5	17.2	
	641	18.0	18.0	18.0	
	642	17.0	17.0	17.0	
	643	17.5	17.5	17.5	
	644	18.0	18.0	18.0	
Nos. 645-662	645	18.0	18.0	18.0	
outside 9 sq.	646	<del>17.5</del> 18.0	17.5	17.5	
	647	18.0	18.0	18.0	
	648	17.5	17.5	17.5	
	649	17.5	18.0	17.7	
	650	17.5	18.0	17.7	
	651	17.5	18.0	17.7	
	652	18.0	18.0	18.0	
	653	18.5	18.5	18.5	
	654	18.0	18.0	18.0	
	655	18.0	18.0	18.0	
	656	18.0	18.0	18.0	
	657	17.5	17.5	17.5	
	658	18.0	18.0	18.0	
	659	17.5	18.0	17.7	
	660	17.0	17.5	17.2	



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Catalog No.

Current No. Mag. 1 Mag. 2 Mean

Remarks

661	18.0	18.0	18.0
662	18.0	18.0	18.0 ↑
663	18.0	18.0	18.0
664	18.0	18.0	18.0
665	18.0	18.0	18.0
666	18.0	18.0	18.0
667	18.0	18.0	18.0
668	18.0	18.0	18.0
669	18.0	18.0	18.0
670	18.0	18.0	18.0
671	17.5	18.0	17.7
672	18.0	18.0	18.0
673	18.0	18.0	18.0
674	18.0	18.0	18.0
675	17.5	18.0	17.7
676	18.0	18.0	18.0
677	18.0	18.0	18.0
678	18.0	18.0	18.0
679	18.0	18.0	18.0
680	17.5	18.0	17.7
681	18.5	18.0	18.2
682	18.0	18.0	18.0
683	18.0	18.0	18.0
684	18.0	18.0	18.0
685	17.5	18.0	17.7
686	18.0	18.0	18.0
687	17.5	18.0	17.7
688	17.5	17.5	17.5
689	18.0	18.0	18.0
690	18.0	18.0	18.0

nebula?



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Catalog No. Incent No. Mag. 1 Mag. 2 Mean Remarks

691 17.5 17.5 17.5

692 18.0 18.0 18.0

nebula?

693 18.0 18.5 18.2

No. 694-715 694 17.5 18.0 17.7

695 18.0 18.0 18.0

696 17.0 17.5 17.2

697 18.0 18.0 18.0

698 18.0 18.0 18.0

699 18.0 18.0 18.0

700 17.5 18.0 17.7

701 18.0 18.0 18.0

702 18.0 18.0 18.0

703 18.0 18.0 18.0

704 18.0 18.0 18.0

705 17.5 18.0 17.7

706 17.5 18.0 17.7

nebula?

707 18.0 18.0 18.0

708 18.0 18.5 18.2

709 18.0 18.0 18.0

710 17.0 17.5 17.2

711 17.5 17.5 17.5

712 17.5 18.0 17.7

nebula?

713 17.5 18.0 17.7

714 18.0 18.0 18.0

715 18.0 18.5 18.2

716 18.0 18.0 18.0

717 18.0 18.0 18.0

718 18.5 18.5 18.5

719 18.0 18.0 18.0

720 17.5 18.0 17.7



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Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

721	18.5	18.5	18.5
722	18.0	18.0	18.0
723	18.0	18.0	18.0
724	17.5	18.0	17.7
725	18.0	18.5	18.2
726	18.0	18.0	18.0
727	18.0	18.0	18.0
728	18.0	18.0	18.0
729	18.0	18.0	18.0
730	18.0	18.0	18.0
731	18.0	18.5	18.2
732	18.0	18.0	18.0
733	18.5	18.5	18.5
734	18.0	18.0	18.0
735	18.5	18.5	18.5
736	18.5	18.0	18.2
737	18.0	18.0	18.0
738	18.0	18.0	18.0
739	18.0	18.0	18.0
740	18.0	18.5	18.2
741	18.0	18.0	18.0
742	18.0	18.0	18.0
743	18.0	18.0	18.0
744	17.5	18.0	17.7
745	17.5	18.0	17.7
746	17.5	18.0	17.7
747	17.5	17.5	17.5
748	18.0	18.0	18.0
749	18.0	18.0	18.0
750	18.0	18.0	18.0

Star ?



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	751	18.5	18.0	18.2 <sub>1</sub>	
	752	18.5	18.5	18.5	nebula?
	753	18.0	18.0	18.0	
	754	18.0	18.5	18.2 <sub>1</sub>	
	755	18.0	18.0	18.0	
	756	18.0	18.5	18.2 <sub>1</sub>	
	757	17.5	17.5	17.5	
	758	18.0	18.5	18.2 <sub>1</sub>	nebula?
	759	18.0	18.0	18.0	
	760	17.5	17.5	17.5	
	761	17.5	18.0	17.7	
	762	18.0	18.0	18.0	
	763	18.5	18.0	18.2 <sub>1</sub>	nebula?
	764	18.0	18.0	18.0	
	765	18.5	18.5	18.5	
	766	18.5	18.0	18.2 <sub>1</sub>	
	767	18.0	18.0	18.0	
	768	18.0	18.0	18.0	
	769	17.0	17.0	17.0	
	770	17.5	17.5	17.5	
	771	17.5	18.0	17.7	
	772	17.5	18.0	17.7	
	773	17.0	17.5	17.2 <sub>1</sub>	
	774	17.5	18.0	17.7	
	775	18.0	18.0	18.0	
✓	776	18.0	18.0	18.0 <sub>1</sub>	
	777	17.5	18.0	17.7	
	778	18.0	18.0	18.0	
	779	17.5	17.5	17.5	
	780	17.5	17.5	17.5	



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atalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	781	18.5	18.5	18.5	nebula ?
✓	782	18.5	18.0	18.2 <sup>4</sup>	nebula ?
✓	783	17.5	17.5	17.5	
✓	784	18.0	18.0	18.0	
✓	785	17.5	17.5	17.5	
✓	786	18.0	18.5	18.2 <sup>4</sup>	
✓	787	17.0	17.5	17.2 <sup>4</sup>	
✓	788	17.5	17.0	17.2 <sup>4</sup>	
✓	789	<sup>16.5</sup> <del>17.0</del>	<sup>16.0</sup> <del>17.0</del>	16.2 <sup>4</sup>	
✓	790	17.0	17.0	17.0 <sup>4</sup>	
	791	17.5	17.5	17.5	
	<sup>17.1</sup> 792	<sup>18.5</sup> 18.0	<sup>18.5</sup> 18.5	<sup>18.5</sup> 18.2 <sup>4</sup>	
	793	18.0	18.0	18.0	
	794	18.0	18.0	18.0 <sup>4</sup>	
✓	795	18.0	18.0	18.0	
✓	796	17.5	17.0	17.2 <sup>4</sup>	
✓	797	17.5	17.5	17.5	
✓	798	17.0	16.5	16.7	
✓	799	18.0	18.0	18.0 <sup>4</sup>	
	800	18.0	18.0	18.0	nebula ?
	801	18.0	18.0	18.0	
	802	18.0	18.0	18.0	
	803	18.0	18.5	18.2 <sup>4</sup>	
	804	18.0	18.0	18.0	
✓	805	17.5	18.0	17.7 <sup>4</sup>	
✓	806	17.5	18.0	17.7	
✓	807	17.5	18.0	17.7	
✓	808	17.5	18.0	17.7	
✓	809	17.5	17.5	17.5	Double star ?
✓	810	17.5	17.5	17.5 <sup>4</sup>	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	811	17.5	17.5	17.5	
✓	812	18.0	18.0	18.0	
✓	813	18.0	18.0	18.0	
✓	814	18.0	18.0	18.0 ↑	
	815	18.0	18.0	18.0	
	816	18.0	18.0	18.0	
	817	17.5	17.5	17.5	
	818	17.5	17.5	17.5	
	819	18.0	18.0	18.0	
	820	18.0	18.0	18.0	
	821	17.5	17.5	17.5	
	822	18.5	18.5	18.5	nebula ?
	823	17.5	17.0	17.25	
	824	17.5	18.0	17.7	
	825	18.0	18.0	18.0	
	826	18.0	18.0	18.0	
	827	18.0	18.5	18.25	nebula ?
	828	18.0	18.0	18.0	
	829	17.5	18.0	17.7	
✓	830	18.0	18.0	18.0 ✓	
✓	831	18.5	18.0	18.25	nebula ?
✓	832	18.0	18.0	18.0 ✓	
	833	18.0	18.0	18.0	
	834	17.5	17.5	17.5	
✓	835	18.0	18.0	18.0 ✓	
✓	836	17.5	17.5	17.5	
✓	837	18.0	18.0	18.0	
✓	838	17.5	17.5	17.5	
✓	839	17.5	17.5	17.5	
✓	840	17.0	16.5	16.75	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	841	17.5	18.0	17.7	
✓	842	14.5	14.5	14.5 <sup>↑</sup>	
	843	18.0	18.5	18.2	
	844	18.0	18.0	18.0	
	845	18.5	18.5	18.5	
	846	17.5	17.5	17.5	
✓	847	17.5	17.5	17.5	
✓	848	18.5	18.5	18.5	Nebula?
	849	18.0	18.0	18.0	
	850	18.0	18.0	18.0	
	851	18.0	18.0	18.0	
	852	18.0	18.0	18.0	
	853	17.5	18.0	17.7	
	854	18.0	18.0	18.0	
	855	17.5	18.0	17.7	
	856	18.5	18.5	18.5	
	857	18.0	18.0	18.0	
	858	17.5	17.0	17.2	
	859	15.5	16.0	15.7	
	860	17.5	18.0	17.7	
	861	18.0	18.5	18.2	
✓	862	17.5	18.0	17.7	
✓	863	18.0	18.5	18.2	
	864	17.5	17.5	17.5	Nebula?
	865	18.0	18.0	18.0	
	866	18.0	18.0	18.0	
	867	18.0	18.0	18.0	
No. 868-895 outside 9 sq.°	868	18.0	18.0	18.0	
	869	18.0	18.0	18.0	
	870	17.5	17.5	17.5	Nebula?



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Catalog No. Current No. Mag. 1 Mag. 2 Mean M Remarks

871	17.5	17.5	17.5	
872	17.5	17.5	17.5	
873	18.0	18.0	18.0	
874	16.5	17.0	16.7	
875	18.0	18.0	18.0	
876	17.5	18.0	17.7	
877	17.5	18.0	17.7	
878	17.5	17.5	17.5	
879	17.0	17.5	17.2	
880	18.0	18.0	18.0	
881	18.0	18.5	18.2	
882	17.5	17.5	17.5	
883	18.0	18.0	18.0	
884	18.0	18.0	18.0	
885	18.0	18.0	18.0	
886	18.0	18.5	18.2	
887	18.0	18.0	18.0	Nebula ?
888	18.0	18.0	18.0	" "
889	18.0	18.0	18.0	" "
890	18.0	18.0	18.0	
891	18.0	18.0	18.0	
892	18.0	18.0	18.0	
893	18.0	18.0	18.0	Nebula ?
894	18.0	18.0	18.0	
895	18.0	18.0	18.0	
896	18.0	18.0	18.0	
897	18.5	18.0	18.2	
898	18.0	18.0	18.0	
899	17.5	17.5	17.5	
900	17.5	17.5	17.5	

Nos. 898-1041  
outside Tag.



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14992

Catalog No.

Current No.	Mag. 1	Mag. 2	Mean	Remarks
901	18.0	18.0	18.0	
902	17.5	17.5	17.5	
903	18.0	18.0	18.0	
904	17.5	18.0	17.7	
905	18.0	18.0	18.0	
906	17.0	17.5	17.25	
907	17.0	17.5	17.25	
908	18.0	18.0	18.0	
909	18.0	18.0	18.0	
910	18.5	18.5	18.5	
911	18.0	18.0	18.0	
912	18.0	18.0	18.0	
913	17.5	17.5	17.5	
914	17.5	18.0	17.7	
915	17.5	17.5	17.5	
916	18.5	18.5	18.5	Nebula?
917	17.5	18.0	17.7	
918	18.0	18.0	18.0	
919	18.0	18.0	18.0	
920	18.0	18.0	18.0	
921	17.5	18.0	17.7	
922	17.5	17.5	17.5	
923	17.5	17.5	17.5	
924	17.5	18.0	17.7	
925	18.0	18.5	18.25	
926	18.0	18.0	18.0	Nebula?
927	18.0	18.0	18.0	
928	18.0	18.0	18.0	
929	17.5	17.5	17.5	
930	17.5	17.5	17.5	



14992					Remarks.
Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	
	931	18.0	18.0	18.0	
	932	18.0	18.0	18.0	
	933	17.5	17.5	17.5	nebula ?
	934	18.0	18.0	18.0	" "
	935	18.0	18.0	18.0	
	936	18.0	17.5	17.7	
	937	17.5	17.5	17.5	
	938	18.0	18.0	18.0	
	939	18.0	18.0	18.0	
	940	18.0	18.0	18.0	
	941	18.0	18.0	18.0	
	942	18.0	18.0	18.0	
	943	17.5	17.5	17.5	
	944	18.5	18.5	18.5	nebula ?
	945	17.5	17.5	17.5	
	946	18.0	18.0	18.0	
	947	18.0	18.0	18.0	
	948	17.5	18.0	17.7	nebula ?
	949	18.0	18.0	18.0	
	950	18.0	18.0	18.0	
	951	18.0	18.0	18.0	
	952	18.0	18.0	18.0	nebula ?
	953	18.0	18.0	18.0	
	954	18.0	18.0	18.0	
	955	17.5	18.0	17.7	
	956	17.5	18.0	17.7	
	957	17.5	17.5	17.5	nebula ?
	958	18.0	18.0	18.0	
	959	18.0	18.0	18.0	
	960	17.5	17.5	17.5	



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14992

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	961	17.5	17.5	17.5	
	962	18.0	18.0	18.0	
	963	17.5	17.5	17.5	
	964	16.0	15.5	15.7	
	965	18.0	18.0	18.0	
	966	17.5	18.0	17.7	
	967	17.5	18.0	17.7	
	968	18.0	18.5	18.2	
	969	17.5	18.0	17.7	
	970	17.5	18.0	17.7	
	971	18.0	17.5	17.7	
	972	18.0	18.0	18.0	
	973	17.5	17.5	17.5	
	974	18.0	18.0	18.0	
	975	18.0	18.0	18.0	nebula?
	976	17.5	17.5	17.5	
	977	18.0	<del>18.0</del> 18.5	18.2	
	978	17.5	<del>18.0</del> 17.5	17.5	nebula?
	979	18.0	18.0	18.0	
	980	18.0	18.0	18.0	
	981	17.0	17.0	17.0	
	982	17.5	17.5	17.5	nebula?
	983	18.0	18.0	18.0	
	984	18.0	18.0	18.0	nebula?
	985	18.0	18.0	18.0	
	986	18.0	18.0	18.0	
	987	17.5	18.0	17.7	
	988	17.5	17.5	17.5	nebula?
	989	17.5	17.5	17.5	nebula?
	990	17.5	18.0	17.7	



14992

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	991	17.5	17.5	17.5	
	992	17.5	17.5	17.5	nebula ?
	993	18.0	18.5	18.2	" "
	994	17.5	18.0	17.7	
	995	17.5	17.5	17.5	
	996	18.5	18.5	18.5	nebula ?
	997	18.0	18.0	18.0	
	998	18.0	18.0	18.0	
	999	17.5	18.0	17.7	
	1000	18.0	18.0	18.0	nebula ?
	1001	17.5	17.5	17.5	" "
	1002	18.0	18.0	18.0	
	1003	18.0	18.0	18.0	
	1004	18.0	18.0	18.0	
	1005	18.0	18.0	18.0	
	1006	17.5	17.5	17.5	
	1007	17.5	17.5	17.5	
	1008	17.5	17.5	17.5	
	1009	17.5	17.5	17.5	
	1010	17.0	17.5	17.2	
	1011	18.0	18.0	18.0	
	1012	18.0	18.0	18.0	
	1013	17.5	17.5	17.5	
	1014	17.5	18.0	17.7	
	1015	18.0	18.0	18.0	
	1016	18.0	18.0	18.0	
	1017	18.0	18.0	18.0	
	1018	17.5	18.0	17.7	nebula ?
	1019	18.0	18.5	18.2	" "
	1020	18.0	18.0	18.0	" "



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14992

Catalog No.

Current No.	Mag. 1	Mag. 2	Mean	Remarks
1021	17.5	17.5	17.5	nebula?
1022	18.5	18.0	18.2	" "
1023	18.0	18.0	18.0	" "
1024	17.5	17.5	17.5	
1025	18.0	18.5	18.2	nebula?
1026	18.0	18.5	18.2	" "
1027	17.5	17.5	17.5	
1028	17.5	17.5	17.5	
1029	17.0	17.0	17.0	
1030	17.5	17.5	17.5	
1031	17.0	16.5	16.7	
1032	16.0	16.0	16.0	
1033	17.5	18.0	17.7	
1034	18.0	17.5	17.7	
1035	18.0	18.0	18.0	
1036	18.0	18.0	18.0	nebula?
1037	17.5	17.5	17.5	
1038	16.5	17.0	16.7	
1039	17.5	17.5	17.5	
1040	17.5	17.5	17.5	
1041	17.5	18.0	17.7	Scratch runs thro. meas.
<u>N.G.C.</u>				
10	15.0	15.0	15.0	
✓ 7793			9.7	A.A.
7812	15.0	14.5	14.7	
<u>I.C.</u>				
✓ 1531	17.5	17.0	17.2	Identification uncertain
✓ 5365	17.5	17.5	17.5	

See p 162 for nos. 1042-1055



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~~4792~~

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

36 17.0 17.0 17.0

37 16.5 16.5 16.5

38 16.5 16.0 16.2

39 17.0 17.5 17.2

40 16.5 17.0 16.7

41 16.0 16.0 16.0

42 16.5 16.0 16.2

43 17.0 16.5 16.7

45 17.5 17.5 17.5

47 17.0 17.0 17.0

48b 17.5 17.0 17.2

52 16.5 16.5 16.5

53 17.5 17.0 17.2

55 17.0 16.5 16.7

56 16.5 16.5 16.5

58 17.0 17.0 17.0

59 17.5 17.0 17.2

61 16.5 16.5 16.5

62 17.0 17.0 17.0

63a 17.0 17.0 17.0

63b 16.0 16.0 16.0

64 17.0 17.0 17.0

65 17.0 17.0 17.0

66 16.5 16.5 16.5

68 17.0 17.0 17.0

69 17.5 17.5 17.5

70 17.0 17.5 17.2

71 17.5 17.5 17.5

79 17.0 17.0 17.0

~~79a~~

94 17.0 17.0 17.0

Bright star near



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Catalog No.

Current No.	Mag. 1	Mag. 2	Mean	Remarks
115	17.0	16.5	16.7	
116	17.0	16.5	16.7	
117	17.5	18.0	17.7	
118	16.5	16.5	16.5	
119	17.5	17.5	17.5	
120	17.5	17.5	17.5	
121	16.0	16.0	16.0	
122	16.5	16.5	16.5	
123a	17.0	16.5	16.7	
123b	16.5	16.5	16.5	
124	17.0	17.0	17.0	
124a	17.0	17.0	17.0	
126	16.5	16.5	16.5	
127	15.5	15.0	15.2	
128	17.5	17.5	17.5	
129	16.5	16.5	16.5	
130	16.5	17.0	16.7	
131	17.0	16.5	16.7	
132	16.5	16.5	16.5	
132a	17.5	18.0	17.7	
149	17.0	17.0	17.0	
150	17.0	17.5	17.2	
151	16.5	16.5	16.5	
152	17.0	17.0	17.0	
153	16.5	16.5	16.5	
154	15.0	15.0	15.0	
155	17.0	17.0	17.0	
157	17.0	17.0	17.0	
159	17.0	17.5	17.2	
162	17.0	17.5	17.2	

H. nebula?

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15470

Catalog. No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
163a		17.0	17.0	17.0	
163b		16.5	16.5	16.5	
164		16.5	16.5	16.5	
165		16.5	17.0	16.7	
166		16.5	16.5	16.5	
167		17.0	16.5	16.7	
169		17.0	17.0	17.0	
170		17.5	17.5	17.5	
171		17.5	17.0	17.2	
172		17.0	17.0	17.0	
173		16.5	16.0	16.2	
174		17.0	17.0	17.0	
175		16.5	16.0	16.2	
176		16.5	16.5	16.5	
177		17.0	16.5	16.7	
178		16.5	16.5	16.5	Nelula?
179		16.5	16.5	16.5	
—		<del>17.5</del>			
181		16.5	17.0	16.7	
181a		15.5	15.5	15.5	
182		17.0	17.5	17.2	
183		17.0	17.0	17.0	Nelula?
184		16.5	17.0	16.7	
185		17.0	17.0	17.0	
186		16.5	16.0	16.2	
192		16.5	16.5	16.5	
221		17.0	17.0	17.0	
232		17.0	17.5	17.2	
237		16.5	17.0	16.7	
261		17.0	17.0	17.0	



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15475

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
280	16	17.9	17.5	17.2	
286	16	17.5	16.5	16.5	
287		17.0	17.0	17.0	
289		17.0	17.5	17.2	
293		17.0	17.0	17.0	
296		17.0	17.5	17.2	
325		17.5	18.0	17.7	
330		17.0	17.5	17.2	

(m. 50-181)

A 14992 (comp. 158)	hr.	Mag. 1	Mag. 2	Mean	Remarks
1042		15.0	15.0	15.0	
1043		15.5	15.5	15.5	
1044		16.5	16.0	16.2	
1045		18.5	18.5	18.5	
1046		18.0	18.0	18.0	
1047		18.0	18.0	18.0	
1048		18.5	18.5	18.5	
1049		18.0	18.0	18.0	
1050		18.5	18.5	18.5	
1051		17.5	17.5	17.5	
1052		17.5	17.5	17.5	
1053		18.0	18.0	18.0	
1054		18.0	18.0	18.0	
1055		18.0	18.0	18.0	



14358

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A 14358

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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Reduced to revised mag. seq.	Remarks
Nos. 1-51	1	17.5	17.0	17.2		
outside 9 sq.°	2	18.0	18.0	18.0		
Also all nos.	3	17.5	17.5	17.5		
checked in red	4	17.5	18.0	17.7		
	5	17.5	18.0	17.7		
	6	18.0	18.5	18.2		
	7	18.0	18.5	18.2		
	8	18.0	18.0	18.0		
	9	<del>18.0</del> 18.0	18.0	18.0		Faint star involved Nebula?
	10	16.5	16.5	16.5		
	11	17.0	17.0	17.0		
	12	17.0	17.0	17.0		
	13	16.5	16.5	16.5		
	14	17.0	17.0	17.0		
	15	17.5	17.5	17.5		
	16	18.5	18.0	18.2		
	17	18.0	17.5	17.7		
	18	18.0	18.0	18.0		
	19	<del>18.0</del> 17.5	17.5	17.7		
	20	17.5	17.0	17.2		
	21	17.5	17.5	17.5		
	22	17.5	17.5	17.5		
	23	17.0	17.5	17.2		Nebula?
	24	18.0	18.5	18.2		"
	25	17.5	18.0	17.7		"
	26	17.0	17.5	17.2		"
	27	17.5	17.5	17.5		
	28	18.0	18.5	18.2		
	29	17.0	16.5	16.7		
	30	18.5	18.0	18.2		



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14358

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	31	18.0	18.0	18.0	
	32	18.0	18.5	18.2	
	33	18.5	18.5	18.5	
	34	18.0	18.0	18.0	
	35	17.5	17.5	17.5	
	36	16.5	16.5	16.5	
	37	17.5	17.0	17.2	
	38	16.0	15.5	15.7	
	39	17.5	17.5	17.5	
	40	18.0	18.0	18.0	
	41	18.0	18.5	18.2	
	42	18.5	18.5	18.5	
	43	18.0	18.0	18.0	
	44	18.0	18.0	18.0	
	45	18.5	18.0	18.2	
	46	17.5	17.5	17.5	
	47	18.0	18.5	18.2	
	48	18.0	18.0	18.0	
	49	17.5	17.5	17.5	
	50	18.0	18.0	18.0	
	51	18.0	18.0	18.0	
	52	18.0	18.5	18.2	
	53	17.5	17.0	17.2	
	54	18.0	18.0	18.0	
	55	18.5	18.5	18.5	
	56	18.0	17.5	17.7	Nebula ?
	57	17.5	17.5	17.5	
	58	18.5	18.5	18.5	
	59	17.5	17.5	17.5	
	60	17.5	17.0	17.2	



14358					Remarks
Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	
	61	18.5	18.5	18.5	
	62	18.0	18.0	18.0	
	63	18.5	18.5	18.5	
✓	64	18.0	18.0	18.0	
	65	18.0	18.0	18.0	
	66	18.0	18.0	18.0	nebula?
	67	17.5	18.0	17.7	?
	68	17.5	17.5	17.5	
	69	18.0	18.0	18.0	
	70	18.5	18.0	18.2	
	71	18.5	18.5	18.5	
✓	72	17.5	17.0	17.2	
✓	73	17.5	17.0	17.2	
✓	74	18.0	17.5	17.7	
✓	75	18.0	18.0	18.0	
✓	76	18.5	18.5	18.5	
✓	77	18.5	18.5	18.5	
✓	78	18.0	17.5	17.7	
	79	17.5	17.0	17.2	
	80	18.0	18.0	18.0	
	81	18.0	18.5	18.2	
	82	17.5	17.5	17.5	
	83	18.0	18.0	18.0	
	84	18.0	18.0	18.0	
	85	18.0	17.5	17.7	
	86	18.0	18.0	18.0	
✓	87	18.0	18.0	18.0	
✓	88	18.5	18.0	18.2	
	89	18.0	18.0	18.0	
	90	18.5	18.5	18.5	



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atalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	91	18.0	18.0	18.0	
	92	18.0	18.0	18.0	
	93	18.0	18.0	18.0	
	94	17.5	17.5	17.5	
	95	17.5	17.0	17.2	
	96	17.5	17.0	17.2	
	97	18.5	18.0	18.2	
	98	18.0	18.0	18.0	
	99	17.5	17.5	17.5	
	100	17.5	17.5	17.5	
	101	18.0	18.0	18.0	
✓	102	18.0	17.5	17.7↓	
✓	103	18.5	18.0	18.2	
✓	104	18.0	18.0	18.0	
✓	105	18.0	17.5	17.7	
✓	106	<del>17.0</del> 17.5	16.5	16.7	
✓	107	18.0	18.0	18.0	
✓	108	17.5	17.5	17.5	
✓	109	18.0	18.0	18.0	
✓	110	18.0	18.0	18.0↑	
	111	18.0	18.0	18.0	
	112	18.5	18.5	18.5	
	113	18.0	18.0	18.0	
	114	18.5	18.5	18.5	
	115	17.5	17.5	17.5	
	116	18.0	18.0	18.0	
	117	18.0	18.0	18.0	
✓	118	18.0	17.5	17.7↓	
✓	119	18.0	17.5	17.7	
✓	120	18.0	18.0	18.0	



14358

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	121	18.0	18.0	18.0	<del>nebula ?</del>
✓	122	16.5	17.0	16.7	
✓	123	16.5	17.0	16.7	
✓	123 <sup>a</sup>	17.5	17.5	17.5	
✓	124	18.0	18.0	18.0	nebula ??
	125	18.0	18.0	18.0	
	126	18.5	18.5	18.5	
	127	18.0	18.0	18.0	
	128	18.0	18.0	18.0	
	129	17.5	17.5	17.5	
✓	130	18.0	18.0	18.0	
✓	131	18.0	17.5	17.7	
	132	18.0	17.5	17.7	
	133	18.5	18.5	18.5	
	134	18.0	18.0	18.0	nebula ?
	135	18.0	18.0	18.0	
	136	18.0	17.5	17.7	
	137	18.5	18.0	18.2	
	138	18.5	18.0	18.2	
	139	19.0	18.5	18.7	
	140	17.5	17.5	17.5	
	141	18.0	17.5	17.7	
	142	18.0	18.0	18.0	
	143	18.0	18.0	18.0	
	144	17.5	17.5	17.5	
	145	18.0	18.5	18.2	
	146	18.5	18.5	18.5	
	147	18.5	18.5	18.5	
	148	18.0	17.5	17.7	
	149	18.0	18.0	18.0	
	150	18.0	18.5	18.2	



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14358

Catalog No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks

	151	17.5	17.0	17.2	
	152	17.5	17.0	17.2	
	153	15.0	15.0	15.0	
	154	17.0	16.5	16.7	
	155	17.0	16.5	16.7	
	156	18.5	18.0	18.2	
	157	18.0	18.0	18.0	
	<del>158</del>				
	159	18.0	17.5	17.7	
	160	18.0	17.5	17.7	
	161	18.0	18.0	18.0	
✓	162	18.5	18.5	18.5	
✓	163	18.0	17.5	17.7	
✓	164	17.5	17.5	17.5	
✓	165	18.0	17.5	17.7	nebula ?
✓	166	18.0	17.5	17.7	
✓	167	18.0	17.5	17.7	
✓	168	14.5	15.0	14.7	Close to bright star
	169	18.0	17.5	17.7	
	170	18.0	18.0	18.0	
	171	18.0	17.5	17.7	
	172	17.5	17.5	17.5	nebula ?
✓	173	18.5	18.0	18.2	
	174	18.0	18.0	18.0	
	175	18.0	18.0	18.0	Close to bright star
	176	18.0	17.5	17.7	
	177	18.5	18.0	18.2	
	178	18.5	18.0	18.2	
	179	17.5	17.0	17.2	
	180	18.0	18.0	18.0	



14358

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	181	18.0	18.0	18.0	
	182	17.5	17.5	17.5	
	183	18.0	18.0	18.0	
	183 <sup>a</sup>	18.0	17.5	17.7	
	184	19.0	18.5	18.7	nebula ?
	185	18.0	18.0	18.0	
	186	18.0	18.0	18.0	
✓	187	18.0	18.0	18.0	
✓	188	18.0	18.0	18.0	
✓	189	18.0	17.5	17.7	
✓	190	18.0	18.0	18.0	
✓	191	17.5	17.0	17.2	
✓	192	18.0	17.5	17.7	
✓	193	17.5	17.5	17.5	
✓	194	18.0	18.0	18.0	
✓	195	17.5	17.0	17.7	
✓	196	18.0	18.0	18.0	
✓	197	18.0	17.5	17.7	
✓	198	18.5	18.0	18.2	
✓	199	18.0	17.5	17.7	
✓	200	18.0	18.0	18.0	
✓	201	18.0	17.5	17.7	
✓	202	18.5	18.0	18.2	
✓	203	19.0	18.5	18.7	
✓	204	18.5	18.0	18.2	
	205	18.5	18.5	18.5	
	206	18.0	18.0	18.0	
	207	18.0	18.0	18.0	nebula ?
	208	17.5	17.5	17.5	
	209	18.0	18.0	18.0	
	210	18.0	17.5	17.7	



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14358

Catalog No.

Current No. Mag.1 Mag.2 Mean

Remarks

	211	18.5	18.0	18.2	
	212	18.0	18.0	18.0	
	213	17.5	17.5	17.5	
	214	18.5	18.0	18.2	
✓	215	18.0	17.5	17.7↓	
✓	216	18.5	18.0	18.2	
✓	217	18.5	18.0	18.2	
✓	218	18.0	17.5	17.7	
✓	219	18.0	17.5	17.7	
✓	220	18.0	17.5	17.7	
✓	221	18.0	17.5	17.7	
✓	222	18.0	18.0	18.0↑	
	223	18.0	17.5	17.7	
	224	18.0	17.5	17.7	
	225	18.0	17.5	17.7	
✓	226	18.0	17.5	17.7↓	
✓	227	19.0	18.5	18.7	
✓	228	18.5	18.5	18.5	nebula?
✓	229	18.0	17.5	17.7	" "
✓	230	18.0	17.5	17.7	
✓	231	18.0	17.5	17.7	
✓	232	18.5	18.0	18.2	
✓	233	18.0	17.5	17.7	nebula?
✓	234	18.0	17.5	17.7	
✓	235	18.0	17.5	17.7	nebula?
✓	236	18.0	17.5	17.7	
✓	237	18.0	18.0	18.0	
✓	238	18.5	18.0	18.2	
✓	239	18.0	17.5	17.7	
✓	240	19.0	18.5	18.7↓	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	241 = No. 19 on A3386				
✓	242	18.5	18.0	18.2 <sub>✓</sub>	nebula ?
	243	18.5	18.0	18.2 <sub>✓</sub>	
	244	18.0	17.5	17.7	
	245	18.0	17.5	17.7	
	246	18.5	18.0	18.2 <sub>✓</sub>	
	247	17.5	17.5	17.5	
	248	18.0	17.5	17.7	
	249	18.0	17.5	17.7	
	250	18.0	17.5	17.7	
	251	18.5	18.5	18.5	
	252	18.5	18.0	18.2 <sub>✓</sub>	
	253	18.5	18.0	18.2 <sub>✓</sub>	
	254	18.5	18.0	18.2 <sub>✓</sub>	
	255	18.5	18.0	18.2 <sub>✓</sub>	
	256	18.0	18.0	18.0	
	257	18.0	17.5	17.7	
	258	18.0	18.0	18.0	
	259	18.0	17.5	17.7	
	260	18.0	17.5	17.7	
✓	261	17.5	18.0	17.7 <sub>✓</sub>	
✓	262	17.5	17.5	17.5	
✓	263	18.5	18.0	18.2 <sub>✓</sub>	
✓	264	18.5	18.0	18.2 <sub>✓</sub>	
✓	265	17.5	17.0	17.2 <sub>✓</sub>	
✓	266	18.5	18.5	18.5	
✓	267	18.0	17.5	17.7 <sub>✓</sub>	
	268	18.0	18.0	18.0	nebula ?
	269	18.5	18.0	18.2 <sub>✓</sub>	
	270	18.0	17.5	17.7	



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14358

Catalog No.

Current No.

Mag. 1

Mag. 2

Mean

Remarks

	271	18.5	18.0	18.2	nebula ?
	272	19.0	18.5	18.7	" "
	273	18.5	18.0	18.2	" "
	274	18.0	18.0	18.0	" "
✓	275	18.0	18.0	18.0	
✓	276	18.0	17.5	17.7	
	277	17.5	17.5	17.5	
✓	278	18.0	17.5	17.7	
✓	279	18.0	18.0	18.0	
✓	280	18.0	17.5	17.7	
	281	18.0	18.0	18.0	
✓	282	15.0	15.0	15.0	
✓	283	18.5	18.0	18.2	nebula ?
✓	284	17.5	17.5	17.5	
✓	285	18.5	18.0	18.2	
✓	286	18.5	18.0	18.2	
✓	286a	15.0	15.5	15.2	
✓	287	18.0	18.0	18.0	
	288	18.5	18.0	18.2	
	289	18.5	18.0	18.2	
	290	18.5	18.0	18.2	
	291	18.5	18.0	18.2	
	292	17.5	17.0	17.7	
	293	18.5	18.0	18.2	
	294	18.0	17.5	17.7	
	295	18.0	17.5	17.7	
	296	18.0	18.0	18.0	
	297	17.5	17.5	17.5	
	298	18.0	18.0	18.0	
	299	18.0	17.5	17.7	
	300	<del>18.0</del> 18.5	17.5	17.7	



14358

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	301	18.0	18.0	18.0	
	302	18.0	17.5	17.7	
✓	303	18.5	18.0	18.2 <sub>✓</sub>	
✓	304	18.0	18.0	18.0 <sub>✓</sub>	
✓	305	17.5	17.5	17.5 <sub>✓</sub>	
✓	306	18.0	18.0	18.0 <sub>✓</sub>	
	307	18.5	18.0	18.2 <sub>✓</sub>	
	308	18.0	17.5	17.7	
	309	18.0	17.5	17.7	
	310	18.0	17.5	17.7	
	311	18.0	17.5	17.7	
	312	18.0	17.5	17.7	
	313	18.0	17.5	17.7	
	314	17.5	17.0	17.2 <sub>✓</sub>	
	315	18.0	17.5	17.7	
	316	<del>18.0</del> 18.5	17.5	17.7	
	317	19.0	18.5	18.7	
	318	18.5	18.5	18.5	
	319	= No. 18 on 3386			
	320	18.5	18.5	18.5	
	321	18.5	18.5	18.5	
	322	17.5	17.5	17.5	
No. 3 23-427	323	18.0	17.5	17.7 <sub>✓</sub>	
outside 9 sq.°	324	18.5	18.5	18.5	
	325	19.0	18.5	18.7	
	326	19.0	18.5	18.7	Nebula?
	327	18.5	18.5	18.5	" "
	328	18.5	18.5	18.5	
	329	18.0	18.0	18.0	
	330	18.0	18.0	18.0 <sub>✓</sub>	



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14358

Catalog No.

Current No.	Mag.1	Mag.2	Mean	Remarks
331	18.0	18.0	18.0	
332	18.5	18.5	18.5	nebula ?
333	18.0	18.5	18.2	" "
334	18.0	17.5	17.7	
335	18.0	17.5	17.7	
336	18.5	18.5	18.5	
337	19.0	19.0	19.0	
338	18.0	18.0	18.0	
339	18.0	18.0	18.0	
340	18.0	18.0	18.0	
341	18.5	18.5	18.5	
342	17.0	17.0	17.0	
343				
344	17.5	17.5	17.5	
345	18.5	18.5	18.5	
346	18.0	18.0	18.0	
347	18.0	18.0	18.0	
348	18.0	18.0	18.0	
349	18.0	18.0	18.0	
350	18.5	18.5	18.5	nebula ?
351	18.0	17.5	17.7	
352	18.0	18.0	18.0	Probably a defect
353	18.0	18.0	18.0	
354	18.0	18.0	18.0	
355	18.0	18.0	18.0	
356	18.0	17.5	17.7	
357	18.0	17.5	17.7	
358	18.0	17.5	17.7	
359	18.0	17.5	17.7	
360	18.0	17.5	17.7	

no such no.



14358

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	361	18.0	18.0	18.0 ↓	
	362	18.5	18.0	18.2	
	363	18.0	18.0	18.0	
	364	18.0	18.0	18.0	
	365	17.5	17.5	17.5	
	366	17.5	17.5	17.5	
	367	18.0	18.5	18.2	
	368	17.5	17.0	17.2	
	369	18.5	18.5	18.5	
	370	18.0	18.5	18.2	
	371	18.0	18.0	18.0	
	372	18.0	18.0	18.0	
	373	18.0	17.5	17.7	
	374	18.0	18.0	18.0	
	375	18.5	18.0	18.2	
	376	18.5	18.0	18.2	
	377	18.0	18.5	18.2	
	378	18.0	18.5	18.2	
	379	18.0	18.0	18.0	
	380	18.0	18.0	18.0	
	381	18.0	18.0	18.0	
	382	18.0	18.0	18.0	
	383	18.0	17.5	17.7	
	384	18.0	17.5	17.7	
	385	18.5	18.0	18.2	
	386	18.0	17.5	17.7	
	387	18.5	18.0	18.2	
	388	18.0	17.5	17.7	
	389	18.0	18.0	18.0	
	390	18.0	17.5	17.7 ↓	



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catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	391	18.5	18.5	18.5	nebula ?
	392	19.0	19.0	19.0	
	393	18.5	18.5	18.5	
	394	18.5	18.0	18.2	
	395	18.5	18.5	18.5	
	396	18.5	18.5	18.5	
	397	18.0	18.0	18.0	
	398	18.0	18.5	18.2	
	399	18.0	18.0	18.0	
	400	18.0	17.5	17.7	
	401	18.0	17.5	17.7	
	402	18.0	18.0	18.0	
	403	18.0	18.0	18.0	
	404	18.0	18.0	18.0	
	405	17.5	17.5	17.5	
	406	18.0	18.0	18.0	
	407	18.5	18.5	18.5	
	408	18.0	18.5	18.2	
	409	18.5	18.5	18.5	
	410	18.0	17.5	17.7	
	411	16.0	16.5	16.2	
	412	18.0	18.0	18.0	
	413	18.5	18.5	18.5	nebula ?
	414	<del>16.0</del> 15.5	16.5	16.2	
	415	<del>17.0</del> 17.5	16.5	16.7	
	416	18.0	18.0	18.0	
	417	18.5	18.0	18.2	
	418	<del>17.0</del> 18.0	16.5	16.7	
	419	18.0	18.0	18.0	
	420	18.0	18.5	18.2	nebula ?



14358

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	421	18.5	18.0	18.2 <sub>1</sub>	
	422	17.5	17.0	17.2 <sub>1</sub>	
	423	18.0	18.0	18.0	
	424	16.0	16.5	16.2 <sub>1</sub>	Part of N 247 ?
	425	15.0	15.0	15.0	
	426	17.0	17.5	17.2 <sub>1</sub>	
	427	14.5	14.5	14.5	

## NEBULAE IN GREEN FROM F14866 (NUMBERS CORRESPOND TO THOSE ON F14866)

245	18.0	18.0	18.0	Nebula?
249	18.5	18.5	18.5	
252	17.5	17.5	17.5	
254	18.0	18.0	18.0	
257	17.0	17.5	17.2 <sub>1</sub>	
262	17.5	17.5	17.5	
264	17.5	17.5	17.5	
265	17.5	18.0	17.7	
266	17.5	17.5	17.5	
269	18.0	18.5	18.2 <sub>1</sub>	Nebula?
276	17.5	17.5	17.5	
278	18.0	18.0	18.0	
280	17.5	17.5	17.5	
285	17.5	17.5	17.5	
287	17.5	17.5	17.5	
291	18.0	17.5	17.7	
292	17.5	18.0	17.7	
295	17.5	17.5	17.5	
295 <sub>w</sub>	18.0	17.5	17.7	
296	18.0	18.0	18.0	
297	17.5	17.5	17.5	
300	17.0	17.0	17.0	

[CONTINUED IN BK. L, PAGE 5]



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14944

Catalog No.

Nos. 1-53

outside 9 sq.<sup>o</sup>  
also all mos.  
checked in  
red.

See magnitudes & tests A14944  
in Brook T., p 29, Jan. 1938

highest  
series and take orig. measure

Current No.	Mag. 1	Mag. 2	Mean	Mag. revised 16.2-18.0 due to VR revision	Remarks
<del>1</del>					
2	16.5	17.0	16.7	16.7	Nebula?
3	17.5	17.5	17.5	17.6	
<del>4</del>	<del>1</del>				
5	17.5	17.0	17.25	17.3	
6	17.0	17.0	17.0	17.0	
7	17.0	17.0	17.0	17.0	
8	17.0	17.5	17.25	17.3	
9	17.0	17.0	17.0		
10	17.5	18.0	17.7	17.8	
11	17.0	17.5	17.25	17.3	
12	17.0	17.0	17.0		
13	17.0	16.5	16.7	16.76	
14	17.5	17.5	17.5	17.6	
15	17.5	17.0	17.25	17.3	
<del>16</del>	<del>16</del>				
17	18.0	18.0			Nebula?
<del>18</del>	<del>1</del>				
19	16.5	17.0	16.7	16.7	
20	17.5	17.5	17.5	17.6	
21	17.0	17.0	17.0		
22	17.5	17.5	17.5	17.6	
23	17.5	17.0	17.25	17.3	
24	17.0	17.0	17.0		
25	16.5	16.5	16.5	16.4	
26	17.5	17.0	17.25	17.3	
27	17.5	17.5	17.5	17.6	
28	16.5	17.0	16.7	16.76	
29	16.5	17.0	16.7		
30	16.5	16.5	16.5	16.4	



14944

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean		Remarks
	31	17.5	17.5	17.5	17.6	
	<del>32</del>	<del>1</del>				
	33	17.5	18.0	17.7	17.8	Nebula?
	34	17.5	17.0	17.2	17.3	
N 7758	= 35	16.5	16.5	16.5	16.4	
	36	17.5	18.0	17.7	17.8	
	37	17.5	17.5	17.5	17.6	
	38	18.0	18.0	18.0		Nebula?
	<del>39</del>	<del>1</del>				
	40	17.0	17.5	17.2	17.3	Nebula?
	41	17.5	17.5	17.5	17.6	
	42	17.5	17.5	17.5	17.6	
	43	18.0	18.0	18.0		
	44	17.5	17.5	17.5	17.6	
	<sup>44a</sup> 45	18.0	18.0	18.0		
		17.0	17.0	17.0		
	46	16.5	16.0	16.2		
	47	17.5	17.5	17.5	17.6	Nebula?
	48	17.5	17.0	17.2	17.3	
	<sup>48a</sup> 49	17.5	18.0	17.7	17.8	
		18.0	18.0	18.0		
	<sup>49a</sup> 50	18.0	18.0	18.0		
		16.5	17.0	16.7		
	51	17.5	17.5	17.5	17.6	
	52	17.5	17.5	17.5	17.6	
	53	17.5	17.5	17.5	17.6	
	54	17.5	18.0	17.7	17.8	
	55	18.0	18.0	18.0		
	56	17.5	17.5	17.5	17.6	
✓	57	17.5	18.0	17.7	✓ 17.8	Nebula?
✓	58	17.5	17.5	17.5	✓ 17.6	
	<sup>58a</sup> 59	17.0	17.0	17.0		Nebula?
		17.0	17.0	17.0		
	60	17.0	17.0	17.0		



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓ 61	17.5	17.5	17.5 ✓	17.6	
✓ 62	17.5	17.5	17.5 ✓	17.6	
✓ 63	16.0	15.5	15.7 ✓		Nebulula ??
64	17.5	17.5	17.5	17.6	
65	16.5	17.0	16.7		
66	17.5	17.5	17.5	17.6	
67	18.0	18.0	18.0		
68	17.0	17.0	17.0		
69	17.5	17.5	17.5	17.6	
70	17.0	17.0	17.0		
71	17.5	17.5	17.5	17.6	
72	17.5	17.5	17.5	17.6	
✓ 73	18.0	17.5	17.7 ✓	17.8	Nebulula ?
74	17.5	17.5	17.5	17.6	
75	17.5	17.5	17.5	17.6	Nebulula ?
✓ 76	17.5	18.0	17.7 ↓	17.8	Nebulula ?
✓ 77	17.5	17.5	17.5	17.6	
✓ 78	17.0	17.5	17.2	17.3	
✓ 79	17.5	17.0	17.2	17.3	
✓ 80	17.5	17.5	17.5	17.6	
✓ 81	17.5	17.5	17.5	17.6	
✓ 82	18.0	18.0	18.0		
83	17.5	17.5	17.5	17.6	
84	17.5	17.5	17.5	17.6	
85	—	—	5.11		
86	16.0	16.5	16.2	16.2	
87	18.0	17.5	17.7	17.8	
88	17.5	17.5	17.5	17.6	
89	—	—	5.11		
90	18.0	18.0	5.18.0		



14944

Catalog No.	Instrument No.	Mag. 1	Mag. 2	Mean	Remarks
91		17.5	17.5	17.5	17.6
92		17.5	17.5	17.5	17.6
<del>93</del>					
94		17.5	17.5	17.5	17.6
95		17.5	17.0	17.25	17.3
96		17.5	17.5	17.5	17.6
97		18.0	18.0	18.0	
<del>98</del>					
99		17.5	17.5	17.5	17.6
✓ 100		17.5	17.5	17.5	17.6
✓ 101		17.5	17.5	17.5	17.6
<del>102</del>					
103		17.0	17.0	17.0	
104		17.5	18.0	17.7	17.8
✓ 105		17.5	17.5	17.5	17.6
✓ 106		17.5	17.5	17.5	17.6
✓ 107		18.0	18.0	18.0	
108		18.0	18.0	18.0	
109		17.5	17.5	17.5	17.6
110		17.5	17.5	17.5	17.6
111		17.0	17.0	17.0	
112		17.5	17.5	17.5	17.6
113		17.5	17.5	17.5	17.6
114		17.5	17.5	17.5	17.6
115		17.5	18.0	17.7	17.8
116		16.5	16.5	16.5	16.4
117		16.0	16.0	16.0	
118		17.5	17.5	17.5	17.6
119		18.0	17.5	17.7	17.8
✓ 120		16.5	16.0	16.7	16.6

Nebula?



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14944

Catalog No. Current No. Mag.1 Mag.2 Mean Remarks

✓	121	17.5	17.5	17.5	17.6
✓	122	17.5	17.5	17.5	17.6
✓	123	16.0	16.0	16.0	
✓	124	18.0	18.0	18.0	
	125	17.5	17.5	17.5	17.6
	126	18.0	18.0	18.0	
	127	17.5	17.0	17.0	
	128	18.0	18.0	18.0	
	129	17.5	18.0	17.7	17.8
✓	130	18.0	18.0	18.0	
	<del>131</del>	<del>1</del>			
✓	132	18.0	18.0	18.0	
✓	133	18.0	18.0	18.0	
	<del>134</del>	<del>1</del>			
✓	135	18.0	17.5	17.7	17.8
✓	136	18.0	18.0	18.0	
	137	18.0	17.5	17.7	17.8
	138	18.0	17.5	17.7	17.8
	139	17.5	17.5	17.5	17.6
	140	17.5	17.5	17.5	17.6
	141	15.5	16.0	15.7	
	142	17.5	17.5	17.5	17.6
	143	16.0	16.5	16.2	
	<del>144</del>	<del>1</del>			
	145	18.0	18.0	18.0	
	146	18.0	18.0	18.0	
	147	17.5	17.5	17.5	17.6
	<del>148</del>	<del>1</del>			
✓	149	17.5	17.5	17.5	17.6
✓	150	17.5	17.5	17.5	17.6

Nebula?



14944

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓ 151		17.5	18.0	17.7 ✓	17.8
152	1				
153		18.0	17.5	17.7	17.8
154		17.0	17.5	17.2 ✓	17.3
155		16.0	16.0	16.0	
156		16.0	16.0	16.0	
157		18.0	18.0	18.0	
158		17.5	17.0	17.2 ✓	17.3
159		17.0	16.5	16.7	
160		16.5	16.5	16.5	16.4
161		18.0	18.0	18.0	
162		18.0	18.0	18.0	
163		17.5	18.0	17.7	17.8
164		17.5	17.5	17.5	17.6
165		17.5	18.0	17.7	17.8
166		17.5	17.5	17.5	17.6
167		17.5	17.5	17.5	17.6
168		17.5	17.5	17.5	17.6
169		17.5	18.0	17.7	17.8
170		17.5	17.0	17.2 ✓	17.3
171		17.0	17.0	17.0	
172		17.0	17.0	17.0	
173		18.0	17.5	17.7	17.8
174		17.0	17.0	17.0	
175		17.5	17.5	17.5	17.6
176		17.5	17.5	17.5	17.6
177		17.5	17.5	17.5	17.6
✓ 178		17.0	17.0	17.0 ✓	
179		18.0	18.0	18.0 ✓	
✓ 180		17.5	17.5	17.5 ✓	17.6

Nebula?



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14944

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	181	17.5	17.5	17.5	17.6
	182	17.5	17.5	17.5	17.6
	183	17.5	18.0	17.7	17.8
✓	184	17.5	18.0	17.7	17.8
✓	185	17.5	17.5	17.5	17.6
✓	186	17.5	17.5	17.5	17.6
✓	187	17.0	17.5	17.2	17.3
	188	17.5	17.5	17.5	17.6
	189	17.5	17.5	17.5	17.6
	<del>190</del>				
	191	17.5	18.0	17.7	17.8
	192	18.0	18.0	18.0	
	193	17.5	17.5	17.5	17.6
	194	17.5	17.5	17.5	17.6
✓	195	18.0	17.5	17.7	17.8
✓	196	17.5	17.5	17.5	17.6
✓	197	16.0	16.0	16.0	
✓	198	18.0	18.0	18.0	Helixula ??
✓	199	16.5	16.5	16.5	16.4
✓	200	17.5	17.0	17.2	17.3
✓	201	17.5	17.0	17.2	17.3
✓	202	17.5	17.0	17.2	17.3
✓	203	17.5	17.0	17.2	17.3
✓	204	17.5	17.0	17.2	17.3
✓	205	17.0	17.0	17.0	
✓	206	18.0	18.0	18.0	
✓	207	17.5	17.0	17.2	17.3
✓	208	17.5	17.5	17.5	17.6
✓	209	17.5	17.5	17.5	17.6
✓	210	17.5	17.0	17.2	17.3



14944

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

New no.

~~211~~ +~~212~~ +

In green, from A 14860 (numbers correspond to those on original plate)

237	53	17.0	17.0	17.0	
238	54	17.0	16.5	16.7	
248	57	17.0	17.0	17.0	
249	63	16.5	16.5	16.5	16.4
250	64	16.5	17.0	16.7	16.6
240	65	17.0	17.0	17.0	
241	66	17.0	16.5	16.7	
<del>269</del> (	67	17.5	17.5	17.5	17.6
242	69	17.5	17.0	17.2	17.3
243	73	17.5	17.5	17.5	17.6
251	74	18.0	18.0	18.0	
244	255	17.0	17.0	17.0	
245	258	16.5	16.5	16.5	16.4

✓ NGC 7826 d. mag. = 253 17.0 16.5 16.7 ✓ 16.6

Identification uncertain  
Additional mag. by C.D.B.

mag	Mag. 1	Mag. 2	Mean	Remarks	Mag. 1	Mag. 2	Mean	Remarks
211					249	16.6	16.2	16.4
212					<del>251</del>			
213	17.8	17.7	17.8	✓	252	17.7	17.8	17.8
214	17.7	17.8	17.7	✓	253	16.8	16.9	16.5
215	17.2	17.3	17.2	✓	254	18.0	18.0	18.0
216	17.5	17.6	17.5	✓	255	18.1	18.1	18.1
217	17.6	17.5	17.6	✓	256	17.2	17.5	17.4
218	17.4	17.4	17.4	✓	257	17.5	17.8	17.7
219	16.9	16.8	16.9	✓	258	17.9	18.0	18.0
220	17.4	17.5	17.4	✓	259	17.9	17.9	17.9
221	17.6	17.4	17.5	✓	260	17.6	17.6	17.6
222	16.8	16.5	16.7	✓	261	17.4	17.5	17.5
223	17.7	17.7	17.7	✓	262	17.0	17.0	17.0
224	16.6	16.2	16.4	✓	263	17.2	17.4	17.3
225	17.2	17.1	17.2	✓	264	18.1	18.1	18.1
226	16.3	16.4	f.a.b. 16.3	✓	265	17.6	17.3	17.4
227	17.7	17.9	17.8	✓	266	16.0	16.8	15.9
228	18.0	18.0	18.0	✓	267	18.2	18.0	18.1
229	17.7	17.8	17.8	✓	268	17.8	17.9	17.9
230	17.7	17.6	17.7	✓	270	17.5	17.6	17.6
231	17.6	17.6	f.a.b. 17.6	✓	271	17.2	17.6	17.4
232	17.0	16.6	16.8	✓				
233	18.1	17.9	18.0	✓				
234	17.6	17.6	17.6	✓				
235	17.4	16.9	16.9	✓				
236	17.9	17.8	17.8	✓				
239	17.7	17.7	17.7	✓				
246	17.1	16.8	16.9	✓				



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5830

A15830

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
Nos. 1-105 outside 9 sq. degrees also all numbers checked in red	1	17.5	17.0	17.2	
	2	17.5	17.5	17.5	Nebula?
	3	17.5	17.5	17.5	Nebula?
	4	16.0	16.0	16.0	
	5	17.5	17.5	17.5	
	6	17.0	17.5	17.2	
	7	18.0	18.0	18.0	Nebula?
	8	16.5	16.0	16.2	
	9	16.0	16.0	16.0	
	10	17.5	17.5	17.5	
	11	18.0	18.0	18.0	
	12	17.5	17.5	17.5	
	13	17.5	17.5	17.5	
	14	17.0	17.0	17.0	
	15	17.5	17.0	17.2	Nebula?
	16	17.5	17.0	17.2	
	17	17.5	18.0	17.7	
	18	17.5	17.5	17.5	
	19	16.0	15.5	15.7	
	20	17.5	17.0	17.2	Nebula?
	21	17.5	17.5	17.5	
	22	17.5	17.0	17.2	
	23	17.5	17.5	17.5	
	24	17.5	17.5	17.5	
	25	17.5	17.5	17.5	
	26	15.5	15.0	15.2	
	27	16.0	16.0	16.0	
	28	17.5	17.5	17.5	
	29	17.5	17.5	17.5	Nebula?
	30	17.5	17.5	17.5	Nebula?



15830

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	31	18.0	18.0	18.0	
	32	17.5	18.0	17.2	
	33	17.5	17.5	17.5	
	34	17.5	17.5	17.5	
	35	17.5	17.0	17.2	
	36	17.5	17.5	17.5	
	37	18.0	18.0	18.0	
	38	18.0	18.0	18.0	
	39	17.5	18.0	17.7	Nebula?
	40	17.0	17.0	17.0	
	41	17.5	17.5	17.5	
	42	17.0	17.0	17.0	
	43	17.5	17.5	17.5	
	44	15.5	15.5	15.5	
	45	17.0	17.5	17.2	
	46	17.0	17.5	17.2	
	47	17.0	16.5	16.7	
	48	17.5	17.5	17.5	Nebula?
	49	17.5	17.5	17.5	
	50	17.0	17.0	17.0	
	51	15.5	15.5	15.5	
	52	18.0	18.0	18.0	
	53	18.0	17.5	17.7	
	54	17.5	17.0	17.2	
	55	18.0	17.5	17.7	
	56	17.0	17.0	17.0	
	57	17.5	17.5	17.5	
	58	17.0	17.0	17.0	
	59	17.5	17.5	17.5	
	60	17.5	17.5	17.5	



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15830

Catalog No.

Current No. Mag. 1 Mag. 2 Mean

Remarks

61 17.5 17.5 17.5

62 14.5 14.5 14.5

Neb 4/10?

63 17.5 17.5 17.5

64 17.5 17.5 17.5

65 17.0 16.5 16.7

66 17.5 17.0 17.2

Neb 4/10?

67 18.0 18.0 18.0

Neb 4/10?

68 17.5 17.5 17.5

69 17.5 17.5 17.5

70 18.0 17.5 17.7

71 16.5 16.0 16.2

72 17.5 17.5 17.5

73 17.5 17.5 17.5

74 18.0 17.5 17.7

75 16.0 16.5 16.2

76 17.5 17.5 17.5

77 17.0 16.5 16.7

78 18.0 18.0 18.0

79 18.0 18.0 18.0

Neb?

80 18.0 18.0 18.0

81 17.5 17.5 17.5

82 17.5 17.5 17.5

Neb?

83 18.0 18.0 18.0

84 18.0 18.0 18.0

85 17.0 17.0 17.0

Neb?

86 16.5 16.0 16.2

87 17.0 16.5 16.7

88 16.5 16.0 16.2

89 17.5 17.5 17.5

90 17.5 17.5 17.5



15830  
Catalog No.

Current No. Mag. 1 Mag. 2 Mean

Remarks

91 17.0 17.0 17.0

92 17.5 17.5 17.5

93 15.0 15.5 15.2

94 14.0 14.0 14.0

95 17.5 17.0 17.2

96 17.0 16.5 16.7

97 18.0 18.0 18.0

98 17.5 17.5 17.5 Neb.?

99 17.5 17.0 17.2

100 17.5 17.0 17.2

101 17.0 17.0 17.0 Neb.?

102 16.5 16.5 16.5

103 16.0 16.5 16.2

104 16.5 17.0 16.7

105 16.5 16.0 16.2

106 18.0 17.5 17.7 Neb.?

107 17.0 17.0 17.0

108 17.0 17.0 17.0

109 17.0 17.5 17.2

110 15.5 15.5 15.5

111 18.0 18.0 18.0 Neb.?

112 17.5 17.5 17.5

113 18.0 18.0 18.0 Neb.?

114 17.5 17.5 17.5 Neb.?

115 17.0 17.0 17.0

116 18.0 18.0 18.0 Neb.?

117 16.5 17.0 16.7

118 17.0 17.5 17.2

119 17.5 17.5 17.5

120 18.0 18.0 18.0

107-122  
outside 9  
sq. degrees



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15830

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

	121	17.5	17.5	17.5	
	122	17.5	17.5	17.5	
	123	18.0	17.5	17.75	
✓	124	17.0	17.5	17.75	
	125	17.5	18.0	17.7	
	126	18.0	18.0	18.0	
	127	16.5	16.5	16.5	
	128	16.5	16.5	16.5	
	129	18.0	17.5	17.7	
	130	17.5	17.5	17.5	
	131	17.5	17.5	17.5	
	132	17.5	17.5	17.5	
✓	133	17.5	18.0	17.75	
✓	134	17.0	17.0	17.0	
✓	135	15.5	16.0	15.7	
✓	136	15.0	14.5	14.7	
✓	137	17.5	17.5	17.5	
✓	138	16.0	16.5	16.25	
✓	139	18.0	18.0	18.0	
✓	140	17.5	17.5	17.5	
✓	141	16.5	17.0	16.7	
✓	142	16.5	17.0	16.7	
✓	143	15.5	15.5	15.5	
	144	17.0	17.5	17.75	
	145	16.5	17.0	16.7	
	146	16.5	17.0	16.7	
	147	16.0	16.5	16.25	
	148	16.0	16.0	16.0	
	149	16.5	17.0	16.7	
	150	17.5	17.5	17.5	

Neb?

Neb?

Neb?



15830

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

	151	15.5	16.0	15.7	
	152	15.5	15.5	15.5	
	153	16.0	15.5	15.7	Bright star involved
	154	17.5	17.5	17.5	
	155	17.5	17.5	17.5	
	156	17.0	17.0	17.0	
	157	16.5	17.0	16.7	
	158	15.5	15.5	15.5	
	159	16.5	17.0	16.7	
	160	18.0	17.5	17.7	
	161	17.5	17.5	17.5	
✓	162	18.0	17.5	17.7	
	163	18.0	17.5	17.7	
	164	17.5	17.5	17.5	Neb.?
✓	165	18.0	18.0	18.0	
✓	166	17.0	17.5	17.7	
✓	167	17.5	17.5	17.5	
✓	168	17.5	17.5	17.5	Neb.?
✓	169	17.0	17.5	17.2	
	170	17.0	17.0	17.0	Neb.?
	171	17.5	18.0	17.7	
	172	17.0	17.0	17.0	
	173	16.5	16.5	16.5	
	174	18.0	18.0	18.0	
✓	175	18.0	18.0	18.0	
✓	176	17.0	17.0	17.0	
✓	177	17.5	17.5	17.5	
	178	17.5	18.0	17.7	
✓	179	18.0	18.0	18.0	
✓	180	17.0	17.0	17.0	



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15830

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	181	18.0	18.0	18.0 ✓	
✓	182	18.0	18.0	18.0 ✓	Neb.?
	183	17.0	17.0	17.0	
	184	18.0	18.0	18.0	
	185	17.5	17.5	17.5	
	186	17.5	17.5	17.5	
	187	17.5	18.0	17.7	
	188	17.5	17.5	17.5	
	189	17.5	17.5	17.5	
	190	17.5	17.5	17.5	
	191	18.0	18.0	18.0	Neb.?
	192	17.5	17.5	17.5	Neb.?
	193	16.0	16.5	16.2	
	194	18.0	18.0	18.0	Neb.?
	195	17.0	17.5	17.2	Neb.?
✓	196	17.5	18.0	17.7 ✓	Neb.?
	197	16.5	17.0	16.7	
	198	17.5	17.5	17.5	
✓	199	17.5	17.5	17.5	
✓	200	16.5	17.0	16.7	
✓	201	17.5	17.5	17.5	Neb.?
✓	202	16.0	15.5	15.7	
✓	203	16.5	16.5	16.5	
✓	204	14.5	15.0	14.7	
✓	205	17.5	18.0	17.7	
✓	206	16.5	17.0	16.7	
✓	207	17.0	17.5	17.2	
✓	208	17.5	18.0	17.7	Neb.?
✓	209	16.5	17.0	16.7	
✓	210	16.5	17.0	16.7 ✓	



15830

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	211	16.5	17.0	16.7	
✓	212	16.0	16.5	16.25	
✓	213	17.0	17.0	17.0	
	214	17.0	17.0	17.0	
	215	17.0	17.5	17.25	
	216	17.0	17.0	17.0	
	217	17.5	17.5	17.5	
	218	17.0	17.5	17.25	
	219	16.5	17.0	16.7	
	220	17.5	17.5	17.5	
	221	17.0	17.0	17.0	
	222	17.0	17.5	17.25	
	223	16.5	17.0	16.7	
	224	17.0	17.0	17.0	
	225	17.0	17.0	17.0	
	226	17.0	17.5	17.25	
	227	17.0	17.0	17.0	
	228	16.5	17.0	16.7	
	229	16.5	17.0	16.7	
	230	16.5	17.0	16.7	
	231	16.5	17.0	16.75	Defect involved.
	232	17.0	17.0	17.0	
	233	16.5	17.0	16.7	
	234	17.5	17.5	17.5	Neb?
	235	18.0	18.0	18.0	Neb?
	236	17.5	17.5	17.5	
	237	18.0	18.0	18.0	Neb?
	238	16.0	15.5	15.7	
	239	17.0	17.0	17.0	
✓	240	16.5	16.5	16.5	



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15830

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	241	17.0	17.5	17.2 <sup>1</sup>	
✓	242	18.0	18.0	18.0	
✓	243	16.5	16.5	16.5	
✓	244	17.0	17.5	17.2 <sup>1</sup>	
✓	245	16.5	17.0	16.7 <sup>1</sup>	
✓	246	17.0	17.5	16.2 <sup>1</sup>	
	247	17.5	17.5	17.5	
	248	18.0	17.5	17.7	
	249	17.5	17.5	17.5	
	250	18.0	18.0	18.0	Neb?
	251	18.0	18.0	18.0	Neb?
	252	17.5	18.0	17.7	
	253	16.0	16.5	16.2 <sup>1</sup>	
	254	16.5	17.0	16.7	
	255	16.0	16.0	16.0	
	256	17.5	18.0	17.7	
	257	16.5	17.0	16.7	
	258	18.0	18.0	18.0	
	259	17.0	17.0	17.0	
	260	17.5	17.5	17.5	
	261	17.5	18.0	17.7	
	262	16.5	17.0	16.7	Neb???
	263	17.0	17.0	17.0	
	264	17.5	18.0	17.7	
	265	17.5	17.5	17.5	
	266	16.5	16.5	16.5	
	267	17.5	17.0	17.2 <sup>1</sup>	Neb?
	268	16.5	16.0	16.2 <sup>1</sup>	
	269	17.5	17.5	17.5	
	270	16.0	16.0	16.0	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
271		18.0	18.0	18.0	
272		18.0	18.0	18.0	
273		18.0	18.0	18.0	
274		16.0	16.5	16.25	
275		18.0	17.5	17.7	
276		17.0	16.5	16.7	
277		17.0	17.0	17.0	
278		18.0	18.0	18.0	
279		18.0	18.0	18.0	
280		18.0	18.0	18.0	
281		17.5	17.5	17.5	
282		17.0	17.0	17.0	
283		17.5	18.0	17.7	
284		17.5	18.0	17.7	neb?
285		16.5	16.0	16.25	
286		17.5	17.0	17.25	
287		16.5	16.5	16.5	
288		16.5	16.5	16.5	
289		18.0	18.0	18.0	neb?
✓ 290		17.0	17.5	17.25	
291		17.5	17.5	17.5	
292		17.5	17.5	17.5	
293		17.5	17.0	17.25	neb?
294		17.5	17.0	17.25	
295		17.5	17.0	17.25	
✓ 296		17.5	17.0	17.25	
✓ 297		17.5	17.5	17.5	
✓ 298		17.5	17.5	17.5	
✓ 299		18.0	17.5	17.7	
✓ 300		17.0	17.0	17.0	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	301	16.5	17.0	16.7	
✓	302	16.0	16.5	16.2	
✓	303	17.5	18.0	17.7	
✓	304	17.5	17.5	17.5	
✓	305	18.0	18.0	18.0	
✓	306	17.5	17.0	17.2	
✓	307	17.5	17.0	17.2	
✓	308	17.0	17.0	17.0	
✓	309	16.5	16.5	16.5	
✓	310	17.0	17.0	17.0	
✓	311	17.5	17.5	17.5	Neb.?
✓	312	18.0	18.0	18.0	
✓	313	18.0	18.0	18.0	Neb.?
	314	17.5	17.0	17.2	
	315	17.0	17.0	17.0	
	316	17.5	17.5	17.5	
	317	18.0	17.5	17.7	
	318	17.5	17.0	17.2	Neb.?
✓	319	17.0	16.5	16.7	
✓	320	17.5	18.0	17.7	
✓	321	17.5	17.5	17.5	
✓	322	16.5	16.5	16.5	Neb. ? Defect involved
	323	16.0	16.5	16.2	
	324	18.0	18.0	18.0	Neb.?
	325	18.0	18.0	18.0	
	326	17.5	17.5	17.5	
	327	18.0	17.5	17.7	Neb.?
	328	18.0	18.0	18.0	
	329	18.0	17.5	17.7	
	330	17.5	17.5	17.5	



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Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

	331	17.5	17.5	17.5	
	332	18.0	18.0	18.0	
	333	18.0	18.0	18.0	Neb.?
	334	17.5	17.0	17.25	
	335	17.5	17.5	17.5	
	336	18.0	18.0	18.0	
	337	17.5	17.0	17.25	
	338	17.5	17.5	17.5	
	339	16.0	16.5	16.25	
✓	340	16.0	16.5	16.25	
✓	341	16.5	16.5	16.5	
✓	342	18.0	18.0	18.0	Neb.?
✓	343	16.5	17.0	16.75	
✓	344	18.0	18.0	18.0	
✓	345	17.5	17.5	17.5	
✓	346	17.5	17.5	17.5	
✓	347	16.5	16.5	16.5	
	348	17.0	16.5	16.75	
	349	18.0	17.5	17.75	
	350	17.5	17.0	17.25	
✓	351	17.5	17.5	17.5	
✓	352	18.0	17.5	17.75	Neb.?
✓	353	17.5	17.5	17.5	
✓	354	17.0	17.0	17.0	
	355	15.5	15.5	15.5	
356-420	356	18.0	18.0	18.0	
outside	357	17.5	17.0	17.25	
9 sq.°	358	17.5	17.0	17.25	
	359	18.0	18.0	18.0	
	360	17.5	17.5	17.5	Neb.?



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Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

361	18.0	18.0	18.0
362	17.5	17.5	17.5
363	17.5	17.5	17.5
364	17.5	18.0	17.7
365	17.5	17.5	17.5
366	17.5	17.5	17.5
367	17.5	17.0	17.2
368	17.0	17.0	17.0
369	17.5	17.5	17.5
370	17.5	17.5	17.5
371	16.5	17.0	16.7
372	17.5	17.5	17.5
373	17.5	17.5	17.5
374	17.5	17.5	17.5
375	18.0	18.0	18.0
376	16.0	16.0	16.0
377	18.0	18.0	18.0
378	17.5	17.5	17.5
379	18.0	18.0	18.0
380	16.5	16.0	16.2
381	18.0	17.5	17.7
382	18.0	18.0	18.0
383	17.0	17.5	17.2
384	17.0	17.5	17.2
385	18.0	18.0	18.0
386	18.0	18.0	18.0
387	16.5	16.5	16.5
388	17.0	17.0	17.0
389	18.0	18.0	18.0
390	17.5	17.5	17.5

Neb?

Neb?

Neb?

Neb?

Neb?

Neb?

Neb?



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	
	391	17.0	17.0	17.0	
	392	17.5	17.0	17.25	
	393	17.0	17.6	17.0	
	394	17.5	17.5	17.5	
	395	17.0	17.5	17.25	Neb?
	396	17.5	17.5	17.5	
	397	17.0	17.0	17.0	
	398	17.5	17.0	17.25	
	399	17.0	17.0	17.0	Neb?
	400	17.0	17.5	17.25	Neb?
	401	16.0	16.5	16.25	
	402	17.0	16.5	16.75	Neb?
	403	17.5	17.5	17.5	
	404	17.5	17.0	17.25	
	405	17.5	17.5	17.5	Neb?
	406	18.0	17.5	17.75	Neb?
	407	18.0	17.5	17.75	
	408	18.0	18.0	18.0	
	409	17.0	16.5	16.75	Neb?
	410	16.5	16.5	16.5	Neb?
	411	17.0	17.5	17.25	Neb?
	412	17.5	17.5	17.5	Neb?
	413	17.0	16.5	16.75	
	414	17.0	17.0	17.0	
	415	16.0	15.5	15.75	
	416	18.0	18.0	18.0	
	417	18.0	17.5	17.75	
	418	17.5	17.5	17.5	
	419	16.0	16.5	16.25	
	420	16.5	17.0	16.75	



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Catalog	Document No.	Mag. 1	Mag. 2	Mean	Remarks
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✓ I 314		15.0	15.0	15.0	
✓ I 329		15.5	15.5	15.5	
✓ I 330		16.0	16.0	16.0	
✓ I 331		15.5	15.5	15.5	
✓ I 332		16.0	16.5	16.25	
✓ I 1931		17.0	17.0	17.0	
✓ I 307		16.0	15.5	15.7	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
<i>Nos. 1-47</i>	1	15.5	15.5	15.5	
<i>outside pag.</i>	2	17.0	17.0	17.0	
<i>Also all nos.</i>	3	16.5	16.5	16.5	
<i>checked in red</i>	4	17.0	17.0	17.0	
	5	17.5	17.5	17.5	
	6	17.5	18.0	17.7	
	7	17.5	17.5	17.5	
	8	17.5	17.5	17.5	
	9	18.0	18.0	18.0	
	10	18.0	17.5	17.7	
	11	16.0	16.0	16.0	
	12	15.5	16.0	15.7	
	13	16.5	16.5	16.5	
	14	17.5	17.0	17.7	
	15	18.0	17.5	17.7	
	16	18.5	18.5	18.5	
	17	17.5	17.5	17.5	
	18	17.5	17.5	17.5	
	19	17.5	17.5	17.5	
	20	18.0	18.0	18.0	
	21	18.0	18.0	18.0	
	22	18.0	18.0	18.0	
	23	17.5	17.0	17.7	
	24	17.5	18.0	17.7	Nebula?
	25	17.0	17.0	17.0	
	26	18.0	18.0	18.0	
	27	16.0	16.0	16.0	
	28	17.5	17.5	17.5	
	29	17.5	17.5	17.5	
	30	17.5	17.5	17.5	Nebula?



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Catalog No. Current No. Mag. 1 Mag. 2 Mean Remarks

31 17.0 17.0 17.0

32 17.5 17.5 17.5

33 16.0 16.5 16.25

34 17.0 17.0 17.0

35 17.5 17.5 17.5

36 18.0 18.0 18.0

37 18.0 18.0 18.0

38 17.0 17.0 17.0

39 17.5 17.5 17.5

40 17.5 17.5 17.5

41 17.0 17.0 17.0

42 17.5 17.5 17.5

43 17.0 17.0 17.0

Nebula?

44 16.5 16.5 16.5

45 16.5 16.5 16.5

46 17.5 17.5 17.5

47 17.5 17.5 17.5

48 17.5 17.5 17.5

49 17.0 17.0 17.0

50 18.0 18.0 18.0

Nebula?

51 18.5 18.5 18.5

Nebula?

52 17.0 17.0 17.0

53 17.0 17.0 17.0

54 17.0 17.0 17.0

55 17.0 17.0 17.0

56 17.5 17.5 17.5

57 18.0 18.0 18.0

58 18.0 18.5 18.25

59 17.5 17.5 17.5

60 18.0 18.0 18.0



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Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

	61	17.5	17.5	17.5	
	62	17.5	17.5	17.5	Helix?
	63	17.5	18.0	17.7	
	64	18.0	18.0	18.0	
	65	18.0	17.5	17.7	
	66	16.5	16.5	16.5	
	67	17.5	17.5	17.5	
	68	18.0	18.0	18.0	
✓	69	16.5	16.5	16.5	
✓	70	17.5	17.5	17.5	
✓	71	17.5	17.5	17.5	
	72	18.0	18.0	18.0	
	73	18.0	17.5	17.7	
	74	17.0	16.5	16.7	
	75	18.0	17.5	17.7	
	76	18.0	17.5	17.7	
	77	18.0	17.5	17.7	
	78	18.5	18.5	18.5	
	79	18.0	17.5	17.7	
	80	17.5	17.5	17.5	
	81	18.5	18.0	18.2	
	82	18.0	18.5	18.2	
	83	18.0	18.0	18.0	
	84	16.5	17.0	16.7	
	85	16.5	16.5	16.5	
✓	86	17.5	17.0	17.2	Helix?
	87	18.0	18.0	18.0	
	88	18.0	18.5	18.2	
	89	17.5	17.0	17.2	
	90	17.0	17.0	17.0	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	91	17.0	17.5	17.25	
✓	92	17.5	18.0	17.7	
✓	93	17.0	17.5	17.25	
✓	94	18.0	18.0	18.0	
✓	95	18.0	18.0	18.0	
✓	96	18.5	18.0	18.25	
	97	17.0	17.0	17.0	
	98	17.0	16.5	16.7	
	99	18.0	18.0	18.0	Star attached
	100	17.0	17.0	17.0	
	101	18.0	18.0	18.0	
	102	17.5	17.5	17.5	
	103	17.5	17.5	17.5	
	104	17.0	17.5	17.25	
	105	17.0	17.5	17.25	
	106	17.5	17.0	17.25	
	107	17.0	17.0	17.0	
	108	17.5	17.5	17.5	
	109	18.0	17.5	17.7	
	110	16.5	16.0	16.25	
	111	17.5	17.5	17.5	
	112	18.0	18.0	18.0	
	113	18.0	18.0	18.0	
	114	17.5	17.5	17.5	
	115	16.5	16.5	16.5	
	116	17.5	17.5	17.5	
	117	17.0	17.5	17.25	
	118	16.0	16.5	16.25	
	119	17.5	17.0	17.25	
	120	17.5	17.5	17.5	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	121	17.5	17.5	17.5	
	122	18.0	17.5	17.7	
	123	18.0	18.0	18.0	
	124	18.0	18.5	18.2	
	125	18.0	18.0	18.0	
	126	17.5	17.5	17.5	
	127	18.5	18.0	18.2	
	128	17.0	17.5	17.2	
	129	18.0	18.0	18.0	
	130	18.0	18.0	18.0	Nebula?
	131	17.5	17.0	17.2	
✓	132	17.5	17.5	17.5	
✓	133	16.5	16.5	16.5	
	134	17.0	17.0	17.0	
	135	17.5	17.5	17.5	
✓	136	17.5	18.0	17.7	
✓	137	16.0	16.5	16.2	
✓	138	16.0	16.0	16.0	
✓	139	17.0	17.0	17.0	
✓	140	18.5	18.5	18.5	
✓	141	18.0	18.0	18.0	
✓	142	18.0	18.0	18.0	
✓	143	18.0	18.0	18.0	
✓	144	18.0	18.0	18.0	
✓	145	18.0	17.5	17.7	
✓	146	18.0	18.0	18.0	
✓	147	18.0	18.5	18.2	Nebula?
	148	18.0	18.0	18.0	
	149	17.0	17.0	17.0	
	150	18.0	18.5	18.2	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	151	18.0	18.0	18.0	Nebula?
	152	17.5	18.0	17.7	
	153	18.0	18.0	18.0	
	154	17.0	16.5	16.7	
	155	17.0	17.5	17.2	
	156	17.5	17.5	17.5	Nebula?
	157	17.5	17.0	17.2	
	158	18.0	17.5	17.7	
	159	18.5	18.0	18.2	
✓	160	17.5	17.0	17.2	
✓	161	17.0	17.0	17.0	
	162	18.0	18.0	18.0	
	163	18.0	18.0	18.0	Nebula?
✓	164	18.0	18.0	18.0	
✓	165	17.5	17.5	17.5	
✓	166	17.0	17.0	17.0	
	167	16.0	16.5	16.2	
	167a	17.5	17.5	17.5	
	168	17.5	17.0	17.2	
	169	18.0	17.5	17.7	
	170	17.0	17.0	17.0	
✓	171	18.5	18.0	18.2	
	172	17.5	17.5	17.5	
	173	17.5	17.5	17.5	
	174	17.0	17.5	17.2	
	175	16.5	16.5	16.5	
	176	17.5	17.5	17.5	
	177	16.0	16.5	16.2	
	178	17.0	17.0	17.0	
✓	179	17.5	17.5	17.5	
✓	180	17.5	17.5	17.5	



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Catalog No.

Current No. Mag. 1 Mag. 2 Mean

Remarks

181	17.5	17.5	17.5
182	17.0	17.0	17.0
183	18.0	18.0	18.0
184	16.5	16.5	16.5
185	17.5	17.5	17.5
186	17.5	17.0	17.25
187	18.0	17.5	17.75
188	17.0	17.5	17.25
189	17.5	18.0	17.75
190	18.5	18.5	18.5
191	17.0	17.5	17.25
192	18.0	18.0	18.0
193	16.5	17.0	16.75
✓ 194	18.0	18.5	18.25
✓ 195	18.0	18.5	18.25
✓ 196	17.5	17.5	17.5
✓ 197	17.0	17.5	17.25
✓ 198	18.0	18.0	18.0
✓ 199	17.0	17.5	17.25
✓ 200	17.0	16.5	16.75
201	17.5	17.5	17.5
202	18.0	18.0	18.0
203	17.0	17.5	17.25
204	17.5	17.5	17.5
205	17.5	17.0	17.25
206	18.0	17.5	17.75
207	18.5	18.0	18.25
208	17.5	17.0	17.25
✓ 209	17.5	17.0	17.25
✓ 210	17.5	17.5	17.5

Helix?

Helix?

Helix?



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
✓	211	18.0	18.0	18.0	
✓	212	17.5	18.0	17.7	
	213	17.5	17.5	17.5	
	214	17.5	17.0	17.2	Helix??
	215	18.0	17.5	17.7	
	216	18.5	18.0	18.2	
	217	17.5	17.0	17.2	
	218	16.5	17.0	16.7	
	219	17.0	17.0	17.0	
	220	17.5	18.0	17.7	
	221	17.5	18.0	17.7	
	222	18.0	18.5	18.2	
	223	17.5	18.0	17.7	
	224	16.5	16.5	16.5	
	225	17.0	17.0	17.0	
	226	17.0	17.0	17.0	
	227	17.0	17.0	17.0	
	228	18.0	18.0	18.0	
	229	16.5	16.5	16.5	
	230	16.5	16.5	16.5	
	231	18.0	18.0	18.0	Helix?
	232	18.0	18.0	18.0	
	233	17.5	17.5	17.5	
	234	17.0	17.0	17.0	
	235	18.5	18.0	18.2	
	236	18.0	17.5	17.7	
	237	17.0	17.0	17.0	
	238	18.0	18.0	18.0	
	239	16.5	16.5	16.5	
	240	17.5	17.5	17.5	



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	241	17.5	17.0	17.25	Nebula? Star attached?
	242	17.5	17.0	17.25	
	243	17.5	17.5	17.5	
	244	18.0	17.5	17.75	
	245	16.5	16.5	16.5	
	246	17.5	17.0	17.25	
	247	18.0	17.5	17.75	
	248	18.0	17.5	17.75	
	249	18.0	18.0	18.0	
	250	17.0	17.0	17.0	
	251	17.5	17.5	17.5	
	252	18.5	18.0	18.25	
	253	17.0	17.0	17.0	
	254	17.5	17.5	17.5	
	255	18.0	18.5	18.25	
	256	16.0	16.0	16.0	
	257	16.0	16.0	16.0	
	258	18.5	18.5	18.5	
	259	18.0	17.5	17.75	
	260	18.0	18.0	18.0	
	261	17.0	17.0	17.0	
	262	17.5	17.5	17.5	
✓	263	18.0	17.5	17.75	
✓	264	18.5	18.0	18.25	
✓	265	18.0	17.5	17.75	
✓	266	18.0	17.5	17.75	
✓	267	18.0	18.0	18.0	
✓	268	18.0	17.5	17.75	
✓	269	18.0	17.5	17.75	
✓	270	18.0	18.0	18.0	



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14859

Catalog No.

Current No. Mag. 1 Mag. 2 Mean

Remarks

✓	271	18.0	18.0	18.0
✓	272	18.0	18.0	18.0
✓	273	15.5	16.0	15.7
✓	274	17.5	17.5	17.5
✓	275	18.0	17.5	17.7
✓	276	17.0	17.0	17.0
✓	277	16.5	16.0	16.2
✓	278	17.5	18.0	17.7
✓	279	18.0	17.5	17.7
✓	280	16.5	16.5	16.5
✓	281	17.5	17.5	17.5
✓	282	18.5	18.0	18.2
✓	283	18.5	18.0	18.2
	284	17.5	17.5	17.5
	285	17.0	17.5	17.2
	286	18.0	17.5	17.7
	287	18.0	17.5	17.7
	288	17.5	17.5	17.5
	289	18.0	18.0	18.0
	290	17.0	17.0	17.0
	291	15.5	15.5	15.5
	292	17.0	17.0	17.0
	293	17.0	17.0	17.0
	294	17.0	16.5	16.7
	295	17.5	17.5	17.5
	296	18.5	18.0	18.2
✓	297	16.5	16.5	16.5
✓	298	17.0	17.0	17.0
	299	17.5	17.5	17.5
	300	18.0	18.0	18.0

Nebula?

Nebula? Star attached.

Nebula?

Star close



14859					Remarks
Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	
301		17.0	17.0	17.0	
302		16.5	17.0	16.7	
303		17.5	18.0	17.7	
304		17.0	17.5	17.25	
305		18.0	17.5	17.7	
306		16.0	16.0	16.0	
307		17.5	17.5	17.5	
308		16.5	17.0	16.7	
309		17.5	17.5	17.5	
310		17.0	17.0	17.0	
311		17.0	17.0	17.0	
312		18.0	17.5	17.7	
313		18.0	18.0	18.0	
314		18.0	18.0	18.0	
315		17.0	17.0	17.0	
315a		17.0	17.0	17.0	
316		17.5	17.5	17.5	Bright star very close. { mutually attached " "
317		17.0	17.0	17.0	
318		16.5	16.5	16.5	
319		17.0	17.0	17.0	
320		18.5	18.0	18.25	
321		17.0	17.0	17.0	
322		15.5	16.0	15.7	
323		18.0	17.5	17.7	
324		17.0	17.0	17.0	{ mutually attached
325		16.0	16.0	16.0	
326		17.0	17.0	17.0	
327		18.0	17.5	17.7	
328		17.5	17.5	17.5	
329		18.0	18.0	18.0	
330		17.5	17.5	17.5	



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14859

Catalog No.

Current No.	Mag. 1	Mag. 2	Mean
331	16.5	16.5	16.5
332	16.5	17.0	16.7
333	16.5	17.0	16.7
334	16.0	16.0	16.0
335	18.0	17.5	17.7
336	17.0	16.5	16.7
337	16.5	16.5	16.5
338	18.5	18.0	18.2
339	17.5	17.0	17.2
340	18.0	18.0	18.0
341	17.5	17.5	17.5
✓ 342	17.5	17.5	17.5
✓ 343	17.5	17.5	17.5
344	17.5	17.5	17.5
345	17.5	17.5	17.5
346	18.0	18.0	18.0
347	17.5	17.5	17.5
348	18.0	18.5	18.2
349	17.5	17.5	17.5
350	17.0	17.0	17.0
✓ 351	17.5	17.5	17.5
✓ 352	17.0	17.0	17.0
✓ 353	18.0	17.5	17.7
✓ 354	18.0	17.5	17.7
✓ 355	18.0	17.5	17.7
✓ 356	18.0	17.5	17.7
✓ 357	17.5	17.5	17.5
✓ 358	17.5	17.0	17.2
✓ 359	16.0	16.0	16.0
✓ 360	17.0	17.0	17.0

Remarks

Nebula?

{ mutually attached Nebula?



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Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	361	17.5	17.5	17.5	
	362	16.5	17.0	16.7	
	363	17.5	17.5	17.5	
	363a	17.5	17.5	17.5	
	364	16.0	16.0	16.0	
	365	17.5	17.5	17.5	
	366	17.0	17.0	17.0	
	367	17.5	17.5	17.5	
	368	17.5	17.0	17.2	
	369	17.5	17.5	17.5	
	370	17.0	17.5	17.2	
	371	17.0	17.0	17.0	
	372	18.0	17.5	17.7	
	373	17.5	17.5	17.5	
	374	17.0	17.0	17.0	
	375	17.0	17.5	17.2	
	376	17.5	17.5	17.5	
	377	17.0	17.5	17.2	
	378	17.5	18.0	17.7	
	379	17.0	17.0	17.0	Star attached
	380	18.5	18.0	18.2	
	381	18.5	18.5	18.5	
	382	17.5	17.5	17.5	
	383	17.0	17.0	17.0	Nebula? Bright star attached
	384	17.0	17.0	17.0	
	385	17.0	17.0	17.0	
	386	17.0	16.5	16.7	
✓	387	17.5	17.5	17.5	
✓	388	16.0	16.0	16.0	
✓	389	18.5	18.0	18.2	
	390	17.5	17.5	17.5	



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14859

atalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	391	17.5	17.5	17.5	
	392	17.0	17.0	17.0	
	393	16.5	17.0	16.7	
	394	18.0	18.0	18.0	
	395	18.0	18.5	18.2	
	396	17.0	17.0	17.0	
	397	17.0	17.0	17.0	
	398	17.5	17.5	17.5	
	399	17.5	17.5	17.5	
	400	17.5	17.0	17.2	
	401	17.0	17.0	17.0	
	402	17.0	17.0	17.0	
	403	16.5	16.5	16.5	
	404	17.0	17.0	17.0	
	405	17.5	17.0	17.2	
✓	406	18.0	18.0	18.0 ↓	
✓	407	18.5	18.5	18.5	Nebula?
✓	408	15.0	15.0	15.0	
✓	409	17.0	17.0	17.0	
✓	410	16.5	16.5	16.5	
✓	411	17.5	17.5	17.5	
✓	412	17.0	17.0	17.0	
✓	413	17.0	16.5	16.7	
✓	414	17.5	17.0	17.2	
✓	415	16.5	16.5	16.5	
✓	416	17.5	18.0	17.7	
✓	417	18.0	18.0	18.0	Nebula?
	418	16.5	16.0	16.2	
	419	17.5	17.0	17.2	
	420	17.0	16.5	16.7	



14859

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	421	16.5	16.0	16.25	
	422	17.5	17.5	17.5	Nebula?
	423	18.0	17.5	17.7	
	424	18.0	18.0	18.0	
	425	17.5	17.5	17.5	
	426	17.0	17.0	17.0	
	427	16.5	16.5	16.5	
	428	17.0	17.0	17.0	
	429	18.0	18.0	18.0	
	430	16.5	16.0	16.25	
	431	17.5	17.5	17.5	
✓	432	17.5	17.5	17.5	✓
✓	433	17.0	17.0	17.0	✓
✓	434	17.5	17.5	17.5	✓
✓	435	17.0	16.5	16.7	✓
✓	436	17.0	16.5	16.7	✓
	437	16.5	16.5	16.5	
	438	16.5	16.5	16.5	
439-440	439	17.0	17.0	17.0	
outside 9 sq.	440	17.0	16.5	16.7	
	441	17.0	17.0	17.0	
	442	16.5	16.5	16.5	
	443	17.5	17.5	17.5	
	444	18.0	17.5	17.7	
	445	17.0	17.0	17.0	
	446	16.5	16.5	16.5	
	447	16.5	16.5	16.5	
	448	16.5	16.5	16.5	
	449	16.0	16.0	16.0	
	450	15.5	15.5	15.5	



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14859

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	451	16.0	16.0	16.0	
	452	16.5	16.5	16.5	
	453	17.5	17.0	17.25	
	454	17.0	17.0	17.0	
	455	18.0	17.5	17.75	
	456	18.0	17.5	17.75	
	457	16.5	17.0	16.75	
	458	17.5	17.5	17.5	
	459	17.5	17.5	17.5	
	460	17.5	17.5	17.5	
	461	16.5	16.0	16.25	
	462	17.5	17.0	17.25	
	463	17.5	17.0	17.25	
	464	16.0	16.0	16.0	
	465	17.5	17.5	17.5	
	466	16.5	17.0	16.75	
	467	17.0	16.5	16.75	
	468	17.5	17.5	17.5	
	469	18.0	17.5	17.75	
	470	16.5	16.5	16.5	
	471	17.5	17.0	17.0	
	472	17.0	16.5	16.75	
	473	17.0	17.0	17.0	
	474	17.5	17.0	17.25	
	475	18.0	17.5	17.75	
	476	18.0	17.5	17.75	
	477	17.0	16.5	16.75	
	478	17.0	16.5	16.75	{ mutually attached
	479	17.5	17.5	17.5	
	480	17.0	16.5	16.75	



14859

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

481 18.0 17.5 17.7

482 18.0 18.0 18.0

483 18.5 18.5 18.5

484 18.0 18.0 18.0

485 18.0 18.0 18.0

486 17.5 18.0 18.0

487 18.0 18.0 18.0

488 17.5 17.5 17.5

Nebula?

489 18.0 18.0 18.0

490 16.5 16.5 16.5

491 17.5 17.0 17.2

492 17.0 17.0 17.0

493 17.5 17.0 17.2

Nebula?  
Faint star attached.

494 17.5 17.5 17.5

495 17.0 17.0 17.0

496-595  
outside 9sq.

496 18.0 18.0 18.0

Nebula?

497 17.5 17.5 17.5

Nebula?

498 18.0 18.0 18.0

499 17.5 18.0 17.7

Nebula?

500 18.0 18.0 18.0

501 17.5 17.5 17.5

502 17.0 17.0 17.0

503 17.5 17.0 17.2

504 17.0 17.0 17.0

505 17.0 17.0 17.0

506 17.0 17.0 17.0

507 17.5 17.5 17.5

Nebula?

508 17.5 17.5 17.5

509 17.0 17.0 17.0

510 17.0 17.0 17.0



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14859

Catalog No. Current No. Mag. 1 Mag. 2 Mean

Remarks

511	17.6	17.0	17.0
512	16.5	16.5	16.5
513	18.5	18.0	18.2
514	17.6	17.0	17.0
515	17.5	17.0	17.2
516	18.0	18.0	18.0
517	18.0	18.0	18.0
518	18.0	18.0	18.0
519	17.5	17.5	17.5
520	18.0	18.0	18.0
521	18.0	17.5	17.7
522	18.0	18.0	18.0
523	17.5	17.5	17.5
524	17.5	17.5	17.5
525	18.0	17.5	17.7
526	16.0	16.0	16.0
527	18.0	18.0	18.0
528	18.5	18.0	18.2
529	18.5	18.0	18.2
530	18.0	17.5	17.7
531	18.0	17.5	17.7
532	17.5	18.0	17.7
533	17.5	18.0	17.7
534	18.0	17.5	17.7
535	18.0	17.5	17.7
536	17.5	17.0	17.2
537	17.5	17.0	17.2
538	17.5	17.5	17.5
539	17.5	17.5	17.5
540	17.5	17.0	17.2

Nebula?

Nebula?



14859  
Catalog No.

Catalog No.	Current No.	Mag. 1	Mag. 2	Mean	Remarks
	541	17.5	17.0	17.25	
	542	18.0	17.5	17.7	
	543	17.0	16.5	16.7	
	544	17.5	17.0	17.25	
	545	18.0	18.0	18.0	
	546	17.5	17.5	17.5	
	547	17.5	17.5	17.5	
	548	16.5	17.0	16.7	
	549	18.5	18.0	18.25	
	550	18.0	18.0	18.0	
	551	16.5	16.5	16.5	
	552	17.5	17.0	17.25	
	553	16.0	16.0	16.0	
	554	17.5	17.0	17.25	
	555	16.0	16.5	16.25	
	556	17.0	17.0	17.0	
	557	16.5	16.5	16.5	
	558	17.5	17.5	17.5	
	559	17.5	17.5	17.5	
	560	17.5	18.0	17.7	
	561	16.0	15.5	15.7	
	562	17.5	17.5	17.5	
	563	17.5	18.0	17.7	Helix?
	564	18.0	18.0	18.0	
	565	17.0	17.0	17.0	
	566	17.5	17.5	17.5	
	567	17.5	17.5	17.5	
	568	17.5	17.5	17.5	
	569	18.0	18.5	18.25	
	570	18.0	18.0	18.0	



220

14859

Catalog No.

Current No. Mag. 1 Mag. 2 Mean

Remarks

571	16.5	17.0	16.7
572	17.0	17.5	17.25
573	18.0	18.0	18.0
574	16.5	16.5	16.5
575	17.0	17.0	17.0
576	17.5	17.0	17.25
577	17.5	17.0	17.25
578	16.5	16.5	16.5
579	16.5	16.0	16.25
580	15.5	15.5	15.5
581	16.0	16.0	16.0
582	16.5	17.0	16.7
583	15.5	16.0	15.7
584	16.5	16.5	16.5
585	15.5	16.0	15.7
586	15.5	16.0	15.7
587	15.5	15.5	15.5
588	16.5	16.5	16.5
589	16.5	16.5	16.5
590	17.0	17.0	17.0
591	17.0	17.0	17.0
592	17.0	17.0	17.0
593	17.0	17.0	17.0
594	17.0	17.0	17.0
595	17.5	17.5	17.5
NGC 7016	17.0	17.5	17.25
7017	16.5	16.5	16.5
7018	17.0	17.0	17.0
7019	16.5	16.0	16.25
7035	16.0	16.0	16.0
I.C. 5088	15.0	15.5	15.25

Identification uncertain

.. ..  
 .. ..  
 .. ..  
 .. ..  
 .. ..



















A 14992

Old. Seq. on plate

VR. new

12.913.414.214.915.716.217.017.518.018.4

12.9

13.4

14.1

14.9

15.65

16.1

16.9

17.4

17.9

18.3







A 14992

Old. Seq. on plate

VR. new

12.9

13.4

14.214.9

15.7

16.2

17.0

17.5

18.0

18.4

12.9

13.4

14.1

14.9

15.65

16.1

16.9

17.4

17.9

18.3











1932phae.proj.2347M