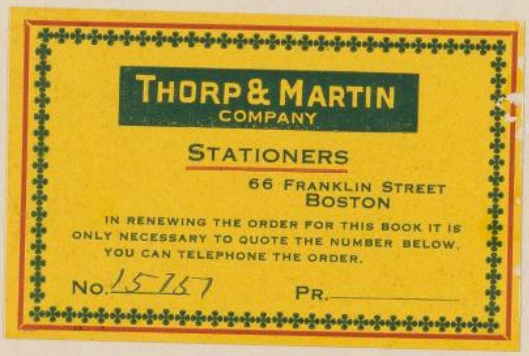
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1931phae.proj.22710

2

Mar. 10, 1931

DF 9967

Cont. from B. 188, 208

D.C.

401	1	G5
402	3	F2
403	3	G0
404	2	G5
405	2	K0
406	3	G0
407	2	G0
408	1	F5
408a	5	F8
409	3	K0
410	3	G5
411	1	K5
412	1	G0
413	1	F5
414	2	G5
415	2	G0
416	1	F8
417	3	K5
418	1	A5
419	1	G5
420	3	G0
421	2	K2
422	2	F2
423	1	F5
424	3	F8
425	3	G5

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1931phae.proj.2271c

B 35050 Apr. 22, 1931

401									Not in C.P.D.
402									Not in CPD
403									Not in CPD
404									Not in CPD
405									Not in CPD
406									Not in CPD
407									Not in CPD
408	~~-73°~~	~~354~~	~~6~~	~~8~~	~~52.0~~	~~-73~~	~~40.8~~	~~9.2~~	~~Not in CPD~~
408a	-73°	354	6	8	52.0	-73	40.8	9.2	Not in CPD
409									Not in CPD
410									Not in CPD
411									Not in CPD
412									Not in CPD
413									Not in CPD
414									Not in CPD
415									Not in CPD
416									Not in CPD
417	-73°	358	6	14	16.0	-73	33.7	9.6	~~Not in CPD~~
418									Not in CPD
419									Not in CPD
420	-73°	363	6h	18m	23.0s	-73°	47.1'	9.5	✓
721									Not in CPD
422									Not in CPD
423									Not in CPD
424	-73	359	6	16	38.0	-73	11.8	9.8	✓
425									Not in CPD

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1931phae.proj.22710

Mar. 10, 1931

DF 9967

F. C.

426	2	G0
427	2	K0
428	2	G0
429	3	F5
430	5	G0
431	1	G0
432	1	F8
433	2	F5
434	1	F5
435	2	K5
436	3	K0
437	4	K5
438	1	F5
439	3	F8
440	1	F5
441	1	G5
442	1	K2
443	2	K5	near brighter star
444	1	K5
445	3	K7
446	1	G
447	1	K7
448	1	G0
449	1	G5
450	3	K0

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B 35050

Apr. 22, 1931

			h	m	s				
426									Not in C.P.D.
427									Not in C.P.D.
428									Not in C.P.D.
429									Not in C.P.D.
430	-72°	455	6	12	40.0	-72°	52.1	9.4	
431									Not in C.P.D.
432									Not in C.P.D.
433									Not in C.P.D.
434									Not in C.P.D.
435	-72	456	6		12	46.0	-72	32.5	9.9
436	-72	453	6		11	21.0	-72	13.6	10.0
437	-71°	416	6		10	49.5	-71	59.0	10.0
438									Not in C.P.D.
439	-71	418	6		11	5.0	-71	47.6	10.1
440									Not in C.P.D.
441									Not in C.P.D.
442									Not in C.P.D.
443									Not in C.P.D.
444									Not in C.P.D.
445	-72	460	6		15	3.5	-72	26.1	9.7
446									Not in C.P.D.
447									Not in C.P.D.
448									Not in C.P.D.
449									Not in C.P.D.
450									Not in C.P.D.

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Mar. 10, 1931

MF 9967

F.C.

451	2	K7
452	1	G
453	3	F5
454	4	G5
455	3	G0
456	1	G5
457	3	F2
458	3	K0
459	1	K0
460	3	K2
461	4	F8
462	1	K0
463	2	K2
464	3	K0
465	3	K5
466	2	A0
467	1	K2
468	1	K0
469	1	F5
470	#6	G5 [Mn changed. Orig 470 doubled]
471	2	G0
472	2	K0
473	2	F8
474	1	G5
475	2	K0

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1931phae.proj.22710

B 35050

Apr. 22, 1931

451									Spot in C.P.D.
452									Spot in C.P.D.
453	-73°	364	6	18	33.0	-73°	12.0	9.5	
454	-73	362	6	18	16.0	-73	21.9	9.4	
455	-73	366	6	19	7.0	-73	25.8	9.5	
456									Spot in C.P.D.
457	-73	367	6	19	59.0	-73	22.1	9.4	
458	-73	369	6	20	25.0	-73	9.0	9.8	
459									Spot in C.P.D.
460	-72	465	6	19	27.5	-72	59.8	9.9	
461	-73	368	6	20	17.0	-73	4.0	9.6	
462									Spot in C.P.D.
463									Spot in C.P.D.
464	-72°	464	6	19	26.5	-72	36.4	9.6	
465	-72	467	6	19	57.0	-72	38.4	9.6	
466									Spot in C.P.D.
467									Spot in C.P.D.
468									Spot in C.P.D.
469									Spot in C.P.D.
470	-73	378	6	21	25.0	-73	29.2	9.4	
471									Spot in C.P.D.
472									Spot in C.P.D.
473									Spot in C.P.D.
474									Spot in C.P.D.
475									Spot in C.P.D.

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8

Mar. 10, 1931

HF 9967

F.C.

476	3	M0
477	1	G
478	2	G0
479	2	G0
480	3	G0
481	2	G0
482	1	K7
483	2	K0
484	1	G5
485	3	F5
486	5	F2
487	2	F8
488	1	G
489	1	G
490	2	K0
491	1	K0
492	2	A5
493	1	G0
494	1	F5
495	1	G
496	3	K0
497	2	F0
498	2	K5
499	2	G0
500	1	F2

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B 35050

Apr. 22, 1931

476	-72°	472	6	22	30.0	-72°	41.2	9.6	
477									Not in C P D
478									Not in C P D
479	-72	473	6	23	11.0	-72	33.8	10.0	
480	-72	471	6	21	30.0	-72	24.0	9.7	
481	-72	470	6	21	27.0	-72	30.6	10.0	
482	-72	468	6	20	10.0	-72	16.0	10.1	
483	-72	466	6	19	55.0	-72	14.9	10.0	
484									Not in C P D
485	-71	424	6	16	39.0	-71	52.4	9.9	
486	-72	461	6	16	40.0	-72	1.9	9.5	
487	-72	462	6	17	9.0	-72	13.9	10.0	
488									Not in C P D
489									Not in C P D
490									Not in C.P.D.
491									Not in C.P.D.
492									Not in C P D
493									Not in C.P.D.
494									Not in C. P.D.
495									Not in C.P.D.
496	-70°	503	6	18	2.0	# -70	52.9	9.9	
497									Not in C.P.D.
498	-71	423	6	14	23.0	-71	0.0	10.2	
499									Not in C.P.D.
500									Not in C.P.D.

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Mar. 10, 1931

MF 9967

F.C.

501	2	K5
502	3	G0
503	4	G0
504	2	G0
505	1	K2
506	1	G5
507	1	K2
508	2	K0
509	1	K5
510	2	K5
511	3	K2
512	3	G5
513	1	K2
514	4	K0
515	5	K0
516	1	K0
517	2	G5
518	2	G0
519	2	G5
520	2	F8
521	4	K0
522	4	G5
523	4	G0
524	6	G0
525	2	G5

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B 10267 Apr. 24, 1931

501									Not in CPD
502	-71°	269	4h	31m	42.0s	-71°	59.0'	9.6	
503	-71	270	4	32	2.0	-71	57.4	9.4	
504									Not in CPD
505									Not in CPD
506									Not in CPD
507									Not in CPD
508									Not in CPD
509									Not in CPD
510									Not in CPD
511									Not in CPD
512									Not in CPD
513									Not in CPD
514	-71	271	4	32	28.0	-71	33.5	9.5	
515	-71	272	4	32	34.0	-71	29.6	9.4	
516									Not in CPD
517									Not in CPD
518									Not in CPD
519									Not in CPD
520									
521	-71	274	4	37	9.0	-71	3.6	9.6	
522	-71	276	4	38	14.5	-71	1.9	9.6	
523	-71	277	4	39	12.0	-71	19.4	9.4	
524	-72	313	4	39	3.0	-72	0.0	9.4	
525									Not in CPD

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Mar. 10, 1931

MF 9967

F.C.

526	2	K0
527	4	K0
528	1	K5
529	1	K2
530	1	K7
531	2	M0
532	2	K0
533	2	K0
534	3	F5
535	1	K0
536	2	K7
537	2	F8
538	1	G0
539	1	K2
540	1	G5
541	1	G5
542	2	G5
543	2	K7
544	1	K2
545	4	F5
546	1	K5
547	2	K2
548	1	G0
549	3	G5
550	2	K2

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B 10267 Apr. 24, 1931

526									Not in CPD
527	−72°	315	4h	39m	23.0s	−72°	22.'9	9.5	
528									Not in CPD
529									Not in CPD
530									Not in CPD
531									Not in CPD
532									Not in CPD
533									Not in C.P.D.
534	−72	317	4	42	19.0	−72	3.8	9.6	
535									Not in CPD
536									Not in CPD
537									Not in CPD
538									Not in CPD
539									Not in CPD
540									Not in CPD
541									Not in CPD
542									Not in CPD
543									Not in CPD
544									Not in CPD
545	−71	280	4	43	48.0	−71	50.0	9.4	
546									Not in CPD
547									Not in CPD
548									Not in CPD
549									Not in CPD
550									Not in CPD

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Mar. 10, 1931

nF 9967

F.C.

551	1	K5
552	1	K0
553	3	K2
554	2	F5
555	2	G0
556	1	M0
557	4	K2
558	2	K0
559	1	M0
560	5	F5
561	1	K0
562	3	G5
563	2	F0
564	1	F5
565	2	G0
566	1	K2
567	3	K0
568	2	F8
569	1	M0
570	1	K2
571	3	K0
572	4	K0
573	1	K5
574	1	K2
575	3	G0

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B 10267 Apr. 24, 1931

551									Not in CPD
552									Not in CPD
553									Not in CPD
554									Not in CPD
555									Not in CPD
556									Not in CPD
557	-70°	315	4h	46m	12.0s	-70°	53.7'	9.7	
558									Not in CPD
559									Not in CPD
560	-71	283	4	46	34.0	-71	13.2	9.4	
561									Not in CPD
562									Not in CPD
563									Not in CPD
564									Not in CPD
565									Not in CPD
566									Not in CPD
567									Not in CPD
568									Not in CPD
569									Not in CPD
570									Not in CPD
571	-71	285	4	49	41.0	-71	17.0	9.7	
572	-71	287	4	50	2.0	-71	6.6	9.7	
573									Not in CPD
574									Not in CPD
575	-71	288	4	50	25.5	-71	06.2	9.6	

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Mar. 10, 1931

MF 9967

F.C.

576	2	K2
577	2	G5
578	1	G5
579	1	F2
580	1	K2
581	1	K0
582	1	G5
583	3	A2
584	1	K0
585	1	F5
586	2	G5
587	1	G5
588	2	G0
589	4	F2
590	3	F2
591	2	G0
592	1	G5
593	3	G0
594	2	G5
595	1	K5
596	5	K0
597	3	K0
598	5	K2
599	3	F2
600	1	F8

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1931phae.proj.22710

B 10267

~~not in CPD~~

Copr. 27, 1931

576									not in CPD
577									not in CPD
578									not in CPD
579									not in CPD
580									not in CPD
581									not in CPD
582									not in CPD
583	-72°	3225	4h	50m	24.5s	-72°	8.2'	9.6	✓
584									not in CPD
585									not in CPD
586	-71	289	4	51	13.2	-71	59.1	9.6	✓
587									not in CPD
588									not in CPD
589	-72	327	4	52	1.5	-72	16.7	9.6	✓
590	-72	328	4	52	4.5	-72	16.5	9.6	✓
591									not in CPD
592									not in CPD
593	-72	330	4	53	11.0	-72	34.0	9.5	✓
594									not in CPD
595									not in CPD
596	-72	395	4	55	58.5	-72	9.7	9.5	✓
597	-72	398	4	57	6.0	-72	7.4	9.6	✓
598	-71	298 (9)	4	56	26.5 (35)	-71	57.0 ~~58.6~~	9.8	✓
599	-71	298	4	56	26.5	-71	58.6	9.6	✓
600									not in CPD

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Mar. 11, 1931

DF 9967

F.C.

601	2	F5⁻
602	2	F8
603	1	K0
604	4	G0
605	3	F5⁻
606	1	K7
607	2	K0
608	1	F2
609	6	K0
610	1	F5⁻
611	1	G5⁻
612	1	K0
613	3	K5⁻
614	1	K5⁻
615	2	K7
616	1	G5⁻
617	2	G5⁻
618	1	G5⁻
619	2	M0
620	1	F5⁻
621	1	K5⁻
622	3	G0
623	1	K2
624	1	K5⁻
625	3	G0

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B 35050 Apr. 22, 1931

								Mag.	
601	-71°	292	4h	53m	8.5s	-71°	52.1'	9.6	
602	-71	298'	4	52	~~36.5~~ 34.5	-71	44.6'	9.6	
603									Not in CPD
604	-71	293	4	53	36.0	-71	44.0	9.3	
605	-71	294	4	53	56.5	-71	17.2	9.7	
606									Not in CPD
607	-71	296	4	54	49.5	-71	18.2	9.7	
608									Not in CPD
609	-71	300	4	57	12.0	-71	29.8	9.4	
610									Not in CPD
611									Not in CPD
612									Not in CPD
613	-71	302	4	58	31.5	-71	48.2	9.6	
614									Not in CPD
615	-71	303°	4	59	23.5	-71	52.8	9.6	
616									Not in CPD
617	-71	304	5h 4	0	22.5	-71	49.6	9.6	
618									Not in CPD
619									Not in CPD
620									Not in CPD
621									Not in CPD
622	-71	307	5	3	31.0	-71	46.0	9.6	
623									Not in CPD
624									Not in CPD
625	-71	806	5	2	57.0	-71	35.8	9.6	

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Mar. 11, 1931

nF 9967

F.C.

626	5	B
627	3	m_1
628	1	a_7
629	1	g
630	1	dg
631	1	K_0
632	2	g_5
633	1	g_5:
634	1	g
635	1	K_5
636	2	K_0
637	2	K_2
638	3	F_8
639	5	K_0
640	3	F_2
641	4	K_2
642	3	F_8
643	2	F_8
644	5	a_0
645	2	g_0
646	3	g_0
647	2	K_5
648	4	F_8
649	1	K_0
650	5	B

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1931phae.proj.22710

B 35050 Apr. 22, 1931

			h	m	s		'	mag.	
626	-71°	308	5	3	45.0	-71°	30.6	9.5	✓
627	-71	310	5	5	5.0	-71	35.0	9.6	✓
628									Not in CPD
629									Not in CPD
630									Not in CPD
631	~~-72°~~	~~346~~	5	7	17.5	-72	~~12.6~~	~~9.7~~	Not in CPD ✓
632	-72	346	5	7	~~35.5~~	-72	~~12.6~~	9.7	~~Not~~
633									Not in CPD
634									Not in CPD
635									Not in CPD
636									Not in CPD
637									Not in CPD
638	-71	312	5	7	26.0	-71	36.7	9.6	✓
639	-71	311	5	7	6.0	-71	29.5	9.4	✓
640	-71	314	5	7	29.0	-71	22.7	9.7	✓
641	-71	313	5	7	27.0	-71	14.2	9.6	✓
642									Not in CPD
643									Not in CPD
644	-71	316	5	8	53.0	-71	20.7	9.4	✓
645									Not in CPD
646	-71	317	5	9	3.0	-71	17.2	9.6	✓
647									Not in CPD
648	-71	318	5	9	6.0	-71	49.1	9.4	✓
649									Not in CPD
650	-71	319	5	11	22.0	-71	33.0	9.2	✓

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1931phae.proj.22710

Mar. 11, 1931

F 9967

F.C.

651	1	K7	
652	1	K0	
653	1	F5	
654	2	F8	
655	4	K0	
656	2	G5	
657	3	F5 ~~G5~~	From 9972, 9964
658	5	G0	
659	1	F8	
660	2	G0	
661	2	F8	
662	1	G5	
663	1	G5	
664	1	G0	
665	3	F8	
666	3	G5	
667	1	B ~~G0~~	Reject Go. Evidently wrong
668	2	F8	
669	1	K7	
670	2	K0	
671	1	G	
672	1	F5	
673	1	G	
674	3	G0	
675	1	K0	

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1931phae.proj.22716

B 35050 Apr. 22, 1931

			h	m	s				
651									Phot in C P D
652									Phot in C P D
653									Phot in C P D
654									Phot in C P D
655	-71°	320	5	12	44.0	-71°	18.8'	9.6	✓
656									Phot in C P D
657	-71	321	5	13	59.0	-71	5.2	9.6	✓
658	-71	322	5	14	23.0	-71	15.4	9.3	✓
659									Phot in C P D
660									Phot in C P D
661	-71	324	5	14	57.0	-71	21.8	9.6	✓
662									Phot in C P D
663									Phot in C P D
664									Phot in C P D
665	-71	327	5	16	49.0	-71	50.4	9.6	✓
666									Phot in C P D
667									Phot in C P D
668									Phot in C P D
669									Phot in C P D
670									Phot in C P D
671									Phot in C P D
672									Phot in C P D
673									Phot in C P D
674	-71	329	5	18	43.0	-71	43.9	9.7	✓
675									Phot in C P D

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1931phae.proj.22710

Mar. 11, 1931

mF 9967

F. C.

676	2	F8
677	5	G5
678	6	G5
679	3	K2
680	1	G0
681	1	K5
682	1	G0
683	2	G0
684	1	K
685	1	K0
686	2	K0
687	2	G0
688	1	K2
689	4	A3
690	1	G5
691	2	B
692	1	G
693	3	A3
694	1	K5
695	1	G5
696	2	K0
697	1	K0
698	2	G0
699	3	G0
700	1	F

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1931phae.proj.22710

B 35050 Apr. 22, 1931

			h	m	s		'		
676									Not in CPD
677	-71°	331	5	21	31.0	-71°	53.3	9.5	✓
678	-71	332	5	21	45.0	-71	36.1	9.5	✓
679									Not in CPD
680									Not in CPD
681									Not in CPD
682									Not in CPD
683									Not in CPD
684									Not in CPD
685									Not in CPD
686									Not in CPD
687									Not in CPD
688									Not in CPD
689	-72	371	5	24	17.5	-72	3.0	9.6	✓
690									Not in CPD
691	-71	336	5	24	49.0	-71	49.8	9.7	✓
692									Not in CPD
693	-72	373	5	25	41.5	-72	12.9	9.8	✓
694									Not in CPD
695									Not in CPD
696									Not in CPD
697									Not in CPD
698	-72	376	5	30	4.5	-72	42.9	9.8	✓
699	-72	378	5	30	48.5	-72	30.6	9.6	✓
700									Not in CPD

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1931phae.proj.2271C

Mar. 11, 1931

MF .9967

F.C.

701	2	F5	
702	1	Y0	
703	1	Y5-	
704	2	K0	
705	1	a5	Double or cluster Sp. very hazy. also in H.D.C. ~~H.D.C. 2005~~
705a	1	Y5-	
706	3	Y5-	
707	3	a ~~b~~	Shows Hydrogen lines seen. H.D.C. 2025
708	1	Y5-	
709	2	F5-	
710	1	F2	
711	3	Y5	
712	3	K5-	pec. of two
713	1	Y5-	
714	1	Y	
715	3	Y5	
716	2	M0	
717	1	K7	S. of several stars
718	1	K0	
719	1	K5-	
720	2	Y0	
720a	1	Y5	cluster
721	3		
721a	1	a5-	Cluster
722	2	B?	Lines not seen
723	1	M0	
724	1	F8	
725	2	Y0	

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1931phae.proj.22711

B 35050 Epc. 22, 1931

701									Phot in C P D
702									Phot in C P D
703									Phot in C P D
704									Phot in C P D
705									Phot in C P D
706	-71°		352	5h	33m	11.5s	-71°	53.0'	10.2 ✓
707									Phot in C P D
708									Phot in C P D
709									Phot in C P D
710									Phot in C P D
711	-72		380	5	31	10.7	-72	1.4	9.6 ✓
712									Phot in C P D
713									Phot in C P D
714									Phot in C P D
715									Phot in C P D
716									Phot in C P D
717									Phot in C P D
718									Phot in C P D
719									Phot in C P D
720									Phot in C P D
721									Phot in C P D
722									Phot in C P D
723									Phot in C P D
724									Phot in C P D
725									Phot in C P D

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1931phae.proj.22710

Mar. 11, 1931

M.F. 9967

F.C.

726	1	F5-
727	1	G
728	2	G
729	2	G
730	1	A2
731	2	K2
732	2	A3
733	3	F2
734	1	G5-
735	2	K0
736	4	K0
737	2	K7
738	1	F
739	1	K2
740	1	K5
740a	4	G0
741	3	K0
742	2	K7
743	1	K2
744	3	F8
745	3	G5
746	1	K7
747	1	F8
748	3	G0
749	1	K7
750	2	F5-

Very faint.

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1931phae.proj.22710

B35050 Apr. 21, 1931

726									Not in CPD
727									Not in CPD
728									Not in CPD
729									Not in CPD
730									Not in CPD
731									Not in CPD
732									Not in CPD
733	-71°	338	5h	25m	2.0s	-71°	12.1'	9.6	✓
734									Not in CPD
735									Not in CPD
736	-71	339	5	25	55.0	-71	15.6	9.6	
737									Not in CPD
738									Not in CPD
739									Not in CPD
740									Not in CPD
740a	-71°40	339	5h	27m					
741	-71	340	5	27	17.0	-71	23.9	9.6	
742									Not in CPD
743									Not in CPD
744	-71	341	5	28	29.0	-71	31.0	9.6	✓
745	-71	342	5	28	36.0	-71	22.3	9.6	✓
746									Not in CPD
747									Not in CPD
748	-71	343	5	28	47.0	-71	5.2	9.7	✓
749									Not in CPD
750									Not in CPD

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1931phae.proj.22710

Mar. 11, 1931

MF. 9967.

F.C.

751	3	G0
752	3	G5
753	1	F5
754	1	G5
755	1	G0
756	1	K0
757	1	G5
758	1	K7
759	4	G0
760	1	K5
761	2	G0
762	2	G0
763	1	K0
764	1	F8
765	1	G0
766	2	G0
767	1	M0
768	2	G5
769	1	K0
770	1	K7
771	1	G5
772	1	G
773	1	F5
774	1	K7
775	2	F8

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1931phae.proj.22710

B 35050 Apr. 22, 1931

751	-70°	392	5h	27m	45.0s	-70°	49.'4	9.7	✓
752	-70	395	5	28	27.0	-70	51.1	9.6	✓
753									Not in CPD
754									Not in CPD
755									Not in CPD
756									Not in CPD
757									Not in CPD
758									Not in CPD
759	-71	34[illegible]	5	32	28.0	-71	30.5	9.6	✓
760									Not in CPD
761									Not in CPD
762	-71°	349	5	32	35.0	-71	18.2	9.6	Not in CPD
763									Not in CPD
764									Not in CPD
765									Not in CPD
766									Not in CPD
767									Not in CPD
768									Not in CPD
769									Not in CPD
770									Not in CPD
771									Not in CPD
772									Not in CPD
773									Not in CPD
774									Not in CPD
775									Not in CPD

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1931phae.proj.22710

Mar. 11, 1931

nF 9967

F.C.

776	1	K5
777	1	K0
778	1	F8
779	3	G5
780	2	G0
781	1	G
782	1	G5
783	1	K0
784	2	K0
785	1	G0
786	1	G5
787	2	G0
788	2	F8
789	1	G
790	1	F8
791	1	K2
792	1	G5
793	1	F5
794	1	G5
795	3	G0
796	1	G0
797	3	G0
798	1	F8
799	1	F5
800	1	F2

fne. of two

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1931phae.proj.22710

B 35050 April 22, 1931

776									Not in CPD
777									Not in CPD
778									Not in CPD
779	-71	361	5	40	1.5	-71	45.2	10.1	✓
780	-71	360	5	39	33.5	-71	32.3	10.2	✓
781									Not in CPD
782									Not in CPD
783									Not in CPD
784	-71	358	5	38	25.0	-71	21.4	10.0	✓
785									Not in CPD
786									Not in CPD
787	-71	357	5	37	30.5	-71	10.5	9.9	✓
788									Not in CPD
789									Not in CPD
790									Not in CPD
791									Not in CPD
792									Not in CPD
793									Not in CPD
794									Not in CPD
795	-71	370	5	44	29.0	-71	47.2	9.8	✓
796									Not in CPD
797	-71	375	5	46	7.0	-71	36.8	9.9	✓
798									Not in CPD
799									Not in CPD
800									Not in CPD

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1931phae.proj.22710

Mar. 12, 1931

NF. 9967.

F.C.

801	1	K2
802	3	G5
803	1	G5
804	1	K0
805	4	F8
806	1	K0
807	1	K2
808	2	K0
809	3	F8
810	2	G0
811	4	G0
812	1	K0
813	2	K2
814	1	F8
815	1	K0
816	1	F5
817	2	M0
818	2	G0
819	1	F8
820	2	G0
821	3	G0
821a	2	F8
822	2	F8
823	1	F5
824	2	K0
825	1	G0

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1931phae.proj.2271c

B 40901 Apr. 27, 1931

801								Not in CPD
802	-71	411	5	47	52.5	-71	1.9	10.1
803								Not in CPD
804								Not in CPD
805	-71	416	5	48	55.5	-71	2.8	9.9
806								Not in CPD
807								Not in CPD
808								Not in CPD
809	-71	382	5	50	1.0	-71	48.0	10.1
810								Not in CPD
811	-71	379	5	49	3.0	-71	48.2	9.9
812								Not in CPD
813								Not in CPD
814								Not in CPD
815								Not in CPD
816	~~-71~~	~~381~~	~~5~~	~~49~~	~~56.0~~	~~-71~~	~~21.2~~	~~10.2~~ Not in CPD
817	-71	381	5	49	56.0	-71	21.2	10.2
818	-71	383	5	50	7.0	-71	19.2	10.2
819								Not in CPD
820	-71	384	5	50	30.0	-71	8.8	10.2
821	-71	385	5	51	57.0	-71	32.4	9.9
822								Not in CPD
823								Not in CPD
824								Not in CPD
825								Not in CPD

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1931phae.proj.2271C

Mar. 12, 1931

NF 8967+

F.C.

826	2	K0
827	3	K7
828	1	F8
829	3	A5
830	3	F5
831	4	K0
832	1	K5
833	2	G0
834	1	G5
835	1	G0
836	1	G5
837	3	G0
838	4	G0
839	1	F8
840	1	K0
841	1	K0
842	1	K5
843	5	G5
844	1	F8
845	5	F8
846	4	K0
847	1	G0
848	3	G0
849	2	K2
850	2	G5

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1931phae.proj.22710

B40901 Apr. 27, 1931

826									Not in CPD
827	-71°	391	5h	53m	54.0s	-71°	57.1'	10.2	
828									Not in CPD
829	~~-70~~ -72	430	5	56	0.0	-70 2	5.9	10.0	
830	~~-70~~ -72	429	5	55	56.0	~~-70~~ -72	3.0	9.9	
831	-71	394	5	56	1.5	-71	59.7	9.6	
832									Not in CPD
833	-71	393	5	55	7.0	-71	14.8	10.2	
834									Not in CPD
835									Not in CPD
836									Not in CPD
837	-71	395	5	56	31.0	-71	30.0	10.1	
838	-71	396	5	56	54.0	-71	40.0	9.6	
839									Not in CPD
840									Not in CPD
841									Not in CPD
842									Not in CPD
843	-71	399	5	58	1.0	-71	55.0	9.7	
844									Not in CPD
845	-72	434	5	57	24.0	-72	19.8	9.7	
846	-72	435	5	57	26.0	-72	17.0	10.0	
847									Not in CPD
848	-72	438 9	5 6	0	26.5	-72	32.1	9.8	
849									Not in CPD
850	-72	440	6	0	42.5	-72	31.0	9.9	

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1931phae.proj.22710

Mar. 12, 1931

mF.9.967

E.C.

851	1	K2
852	1	F5
853	1	F8
854	2	G5
855	1	G5
856	1	F8
857	1	K7
858	1	G0
859	2	F5
860	1	M0
861	1	M0
862	1	F5
863	3	F5
864	D4	F	Party exp. on a star at Mount.
865	4	G5
866	1	F0
867	2	K0
868	1	G5
869	1	A5
870	3	F5
871	1	F8
872	1	G
873	1	G5
874	3	F5
875	1	K0	mountain of 2

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1931phae.proj.2271c

B 40901 Apr. 27, 1931

851									Not in CPD
852									Not in CPD
853									Not in CPD
854									Not in CPD
855									Not in CPD
856									Not in CPD
857									Not in CPD
858									Not in CPD
859	-72 20	442	6h	2m	40.0s	-72 20	29.9'	10.1	✓ ✓
860									Not in CPD
861									Not in CPD
862									Not in CPD
863	-72 2	445	6	4	43.0	-72 2	30.9	9.9	✓ ✓
864	-72 2	444	6	4	18.0	-72 2	15.4	9.7	✓ ✓
865	-71	409	6h 5	3	5.0	-71	55.7	9.8	✓
866									Not in CPD
867									Not in CPD
868									Not in CPD
869									Not in CPD
870	-72 2	447	6	6	60.0	-72 2	17.5	9.5	~~Not in CPD~~
871									Not in CPD
872									Not in CPD
873									Not in CPD
874	-71	413	6	4	22.0	-71	39.7	9.8	~~Not in CPD~~
875									Not in CPD

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1931phae.proj.22710

Mar. 12, 1931

NF 9967.

F.C.

876	2	A3
877	2	K2
878	2	K7
879	1	F2
880	1	G
881	1	G
882	5	F5
883	4	K0
884	3	G0
885	2	F5
886	2	G0
887	2	F8
888	1	F
889	1	G
890	2	G0
891	1	G
892	3	F0
893	2	G0
894	1	F8
895	1	K2
896	4	G0
897	2	A7
898	1	G0
899	1	F0
900	3	K0

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1931phae.proj.2271f

B 40901 Apr. 27, 1931

			h	m	s		'		
876									Spot in CPD
877									Spot in CPD
878									Spot in CPD
879									Spot in CPD
880									Spot in CPD
881									Spot in CPD
882	-71°	401	5	59	7.0	-71°	26.8	9.4	✓
883	-71	400	5	58	9.0	-71	29.8	9.9	✓
884	-71	397	5	57	18.0	-71	26.6	10.0	✓
885									Spot in CPD
886	-71	398	5	57	23.0	-71	20.9	10.2	✓
887									Spot in CPD
888									Spot in CPD
889									Spot in CPD
890	-71	402	5	59	31.0	-71	11.0	9.9	✓
891									Spot in CPD
892	-71	403	5	59	39.0	-71	6.)	9.0	✓
893									Spot in CPD
894									Spot in CPD
895									Spot in CPD
896	-71	405	6	0	18.0	-71	0.0	9.9	✓
897									Spot in CPD
898									Spot in CPD
899									Spot in CPD
900	-70	481	6	3	15.0	-70	57.7	10.1	✓

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1931phae.proj.2271C

Mar. 12, 1931

nF 9967.

F.C.

901	1	G_0
902	2	F_8
903	1	F_5
904	1	G_0
905	2	F_5
906	3	F_8
907	2	K_0
908	2	K_5
909	1	G_0
910	2	K_2
911	4	a_0
912	5	a_2
913	1	G_0
914	1	G_0
915	1	G
916	1	F_5
917	1	G
918	1	K_5
919	1	G_5
920	4	a_0
921	1	m_0
922	2	G_0
923	4	G_0 Bunsetlet of 3
924	1	F_5
925	1	F_8

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1931phae.proj.22716

B 40901 Apr. 27, 1931

901									Not in CPD
902	-71	441	6	3	55.0	-71	8.1	10.1	Not in CPD
903									Not in CPD
904									Not in CPD
905									Not in CPD
906									Not in CPD
907									Not in CPD
908									Not in CPD
909									Not in CPD
910									Not in CPD
911	-72°	449	6h	8m	3.0s	-72°	16.5'	10.1	✓
912	-72	448	6	7	51.0	-72	8.7	9.6	✓
913									Not in CPD
914									Not in CPD
915									Not in CPD
916									Not in CPD
917									Not in CPD
918									Not in CPD
919									Not in CPD
920	-71	414	6	10	7.0	-71	21.4	9.9	✓
921									Not in CPD
922									Not in CPD
923	-71	420	6	11	56.0	-71	29.3	9.9	✓
924									Not in CPD
925									Not in CPD

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1931phae.proj.22710

Mar. 12, 1931

Mf = 9967

F.C.

926	2	K_0
927	1	F_5^-
928	1	F_2
929	1	F_5^-
930	1	G_5
931	1	G_0
932	1	G_5^-
933	2	G_5^-
934	2	K_0
935	4	F_5^-
936	2	a_5^-
937	1	F_8
938	1	a_5^-
939	2	F_5^- Lines narrow. 4077 strong
940	2	F_8.
941	1	G_5
942	1	K
943	2	G_5^-
944	1	F_8
945	3	G_0
946	3	F_8
947	4	F_8
948	1	M_0
949	1	G_0
950	5	G_0

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1931phae.proj.22710

B 40901 Apr. 27, 1931

926									Not in CPD
927									Not in CPD
928									Not in CPD
929									Not in CPD
930									Not in CPD
931									Not in CPD
932									Not in CPD
933									Not in CPD
934									Not in CPD
935	-70°	490	6h	10m	1.5s	-70°	57.7'	9.8	✓
936									Not in CPD
937									Not in CPD
938									Not in CPD
939									Not in CPD
940	-70	484	6	4	26.0	-70	37.6	10.2	✓
941									Not in CPD
942									Not in CPD
943									Not in CPD
944									Not in CPD
945									Not in CPD
946									Not in CPD
947	-70	488	6	7	45.0	-70	37.8	9.9	✓
948									Not in CPD
949									Not in CPD
950	-70	489	6	8	19.0	-70	30.6	9.4	✓

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1931phae.proj.22710

Mar 12, 1931

mF 9967

7.C.

951	1	F_5^-
952	1	G_0^-
953	3	A_0
954	4	F_5
955	1	G_0
956	1	F_2
957	1	F_2
958	1	G_5^-
959	4	F_8
960	2	K_0
961	3	K_0
962	4	F_2
963	3	G_0
964	2	F_2
965	5	G_5
966	2	F_8
967	1	F_5
968	1	F_5 Nebulous. cluster?
969	2	F_8
970	1	K_5^-
971	3	K_0
972	1	F_2
973	1	G_0
974	2	G_5
975	1	F_2

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1931phae.proj.2271C

B 40901 Apr. 27, 1931

951									Not in CPD
952									Not in CPD
953	-70°	493	6	12	2.0	-70	38.2	9.9	✓
954	-70	495	6	12	41.0	-70	28.6	9.4	✓
955									Not in CPD
956									Not in CPD
957									Not in CPD
958									Not in CPD
959	-70	497	6	15	12.0	-70	31.0	9.6	✓
960									Not in CPD
961	-70	499	6	15	51.0	-70	13.4	9.9	✓
962	-70	498	6	15	32.0	-70	9.1	9.7	✓
963	-70	496	6	15	8.0	-70	9.4	9.9	✓
964									Not in CPD
965	-69	585	6	14	54.0	-69	57.8	9.7	✓
966									Not in CPD
967									Not in CPD
968									Not in CPD
969	-70	494	6	12	14.0	-70	7.4	10.2	✓
970									Not in CPD
971									Not in CPD
972									Not in CPD
973									Not in CPD
974									Not in CPD
975									Not in CPD

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1931phae.proj.22710

Mar. 18, 1931

MF 9967

F. C.

976	1	Y0
977	2	F8
978	3	Y5
979	1	Y0
980	3	F2
981	1	Y5
982	1	Y5
983	2	K0
984	3	K5
985	1	K2
986	2	Y0
987	2	Y0
988	3	F8
989	1	Y5
990	3	F8
991	1	Y5
992	3	M0
993	1	Y0
994	1	K2
995	4	A3
996	1	K7
997	3	Y0
998	1	Y
999	1	Y5
1000	1	K0

K7e m 10064. Vanishes Leonard. Reject Y5. Imp.

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1931phae.proj.22716

B 40901 Apr. 27, 1931

976									Not in CPD
977									Not in CPD
978									Not in CPD
979									Not in CPD
980	-69°	576	6h	9m	2.5s	-69°	40.0'	10.2	
981									Not in CPD
982									Not in CPD
983									Not in CPD
984									Not in CPD
985									Not in CPD
986									Not in CPD
987									Not in CPD
988									Not in CPD
989									Not in CPD
990									Not in CPD
991									Not in CPD
992	-70	485	6	6	15.0	-70	5.3	10.0	
993									Not in CPD
994									Not in CPD
995	-69	566	6	5	33.5	-69	50.4	9.7	
996									Not in CPD
997									Not in CPD
998									Not in CPD
999									Not in CPD
1000									Not in CPD

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1931phae.proj.22710

Mar. 13, 1931

MF 9967

F.C.

1001	4	F_0
1002	4	G_0
1003	1	K_0
1004	3	M_0
1005	1	K_7
1006	2	K_7
1007	1	K_0
1008	1	K_5
1009	1	G_5
1010	2	K_2
1011	1	K_7
1012	1	K_7
1013	2	K_2
1014	2	K_0
1015	3	K_7
1016	2	A_0
1017	1	K_5
1018	2	G_5
1019	1	G_5
1020	2	K_7
1021	1	K_2
1022	1	G_5
1023	4	F_8
1024	2	G_5
1025	1	K_7

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1931phae.proj.22710

B 26514 Apr. 27, 1931

1001	-69°	281	4h	33m	53.0s	-69°	57.9′	9.6	✓
1002	-70°	310	4h	34m	3.0s	-70°	6.8′	9.6	✓
1003									Not in CPD
1004	-70	311	4	36	6.0	-70	16.9	9.7	✓
1005									Not in CPD
1006									Not in CPD
1007									Not in CPD
1008									Not in CPD
1009									Not in CPD
1010									Not in CPD
1011									Not in CPD
1012									Not in CPD
1013									Not in CPD
1014									Not in CPD
1015									Not in CPD
1016									Not in CPD
1017									Not in CPD
1018									Not in CPD
1019									Not in CPD
1020									Not in CPD
1021									Not in CPD
1022									Not in CPD
1023									Not in CPD
1024									Not in CPD
1025									Not in CPD

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1931phae.proj.22710

Mar. 13, 1931

NF. 9967.

F. C.

1026	2	G5-
1027	1	K5-
1028	4	G5-
1029	1	K0
1030	7	F5-
1031	4	F2
1032	1	K2
1033	1	K0
1034	1	K7
1035	1	K7
1036	5	F8.
1037	1	K7
1038	1	K5-
1039	3	G5-
1040	1	K5-
1041	1	K7
1042	1	G5
1043	1	K2
1044	2	K2
1045	1	F8
1046	2	K5-
1047	1	K2
1048	2	K0
1049	3	K0
1050	3	K2

m. ηz

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1931phae.proj.22710

B 26514 Apr. 27, 1931

1026									Not in CPD
1027									Not in CPD
1028									Not in CPD
1029									Not in CPD
1030	-70	313	4	42	44.0	-70	14.5	9.2	
1031									Not in CPD
1032									Not in CPD
1033									Not in CPD
1034									Not in CPD
1035									Not in CPD
1036	-70	314	4	45	24.0	-70	25.8	9.6	
1037									Not in CPD
1038									Not in CPD
1039									Not in CPD
1040									Not in CPD
1041									Not in CPD
1042									Not in CPD
1043									Not in CPD
1044									Not in CPD
1045									Not in CPD
1046									Not in CPD
1047									Not in CPD
1048									Not in CPD
1049									Not in CPD
1050									Not in CPD

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1931phae.proj.2271C

Mar. 13, 1931

N.E. 9.9.67

F.C

1051	6	B	Very long violet end
1052	2	B	
1053	3	K5-	
1054	2	K7	
1055	1	G	
1056	5	G5	
1057	3	K0	
1058	1	F8	
1059	2	G5-	
1060	1	K5-	
1061	2	F8	
1062	3	F5-	
1063	1	K5	
1064	4	G5-	
1065	5	G	dark lines seen. Cluster Class Gon in F 1064
1066	1	M0	
1067	3	M0	
1068	2	G5	
1069	5	A0	
1070	1	K0	
1071	1	G5-	
1072	3	F5	
1073	1	K2	
1074	2	F2	
1075	4	A7	

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1931phae.proj.22710

B 26514 Apr. 27, 1931

1051	-69°	290	4h	49m	56.0s	-69°	40.0′	9.6	
1052									Not in CPD
1053									Not in CPD
1054									Not in CPD
1055									Not in CPD
1056	-70	317	4	48	40.0	-70	21.5	9.6	
1057									Not in CPD
1058									Not in CPD
1059	-70	319	4	50	53.0	-70	38.7	9.7	
1060									Not in CPD
1061									Not in CPD
1062	-70	323	4	52	37.0	-70	26.9	9.6	
1063									Not in CPD
1064	-70	322	4	51	54.6	-70	0.2	9.6	
1065	-70	320	4	51	33.0	-70	11.6′	Neb.	
1066									Not in CPD
1067	-69	293	4	50	52.5	-69	53.0	9.5	
1068									Not in CPD
1069	-69	292	4	50	11.5	-69	55.0	9.4	
1070									Not in CPD
1071									Not in CPD
1072	-69	297	4	51	47.0	-69	46.9	9.6	
1073									Not in CPD
1074									Not in CPD
1075	-69	296	4	51	39.0	-69	38.1	9.6	

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1931phae.proj.22710

Mar. 13, 1931

MF. 9967.

F.C.

1076	3	K0
1077	p4	K5-
1078	p1	K2
1079	2	G5-
1080	1	P ~~Ped~~
1081	4	G0
1082	2	F5
1083	2	G
1084	3	G0
1085	1	G0-
1086	1	K5-
1087	3	K0
1088	3	K2
1089	1	K5-
1090	2	K7
~~1090a~~	~~1~~	~~O~~
1091	3	G0
1092	1	K7
1093	3	F5-
1094	1	K2
1095	1	K7
1096	2	K2
1097	2	K5-
1098	3	G0
1099	3	G5-
1100	2	G5-

~~Debated~~ (No. changed Obj. 1078 to heavy)

Bright lines. Gas. Neb.

Ruprecht 1875 5h 47 -67 13 (MF 9972)

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1931phae.proj.22710

B 26514 Apr. 27, 1931

1076	-69°	294	4h	51m	11.0s	-69°	44.0′	9.7	
1077	-69	298	4	52	5.5	-69	24.0	9.6	
1078									Not in CPD
1079									Not in CPD
1080									Not in CPD
1081	-69	291	4	49	59.5	-69	24.1	9.7	
1082									Not in CPD
1083									Not in CPD
1084									Not in CPD
1085									Not in CPD
1086									Not in CPD
1087									Not in CPD
1088									Not in CPD
1089									Not in CPD
1090									Not in CPD
1091	-68	279	4	48	34.5	-68	58.8	9.7	
1092									Not in CPD
1093									Not in CPD
1094									Not in CPD
1095									Not in CPD
1096									Not in CPD
1097									Not in CPD
1098	-68	284	4	53	30.5	-68	43.9	9.6	
1099									Not in CPD
1100									Not in CPD

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1931phae.proj.22710

Mar. 18, 1931

INVEST 1967 ...

F.C.

1101	5	F5	
1102	2	K2	
1103	3	F5	
1104	4	B	
1105	pz	gP	Gas Neb.
1106	2	M0	
1107	3	P	
1108	1	Pec. K?	Bright lines? Maybe defective. Amst
1109	1	G0 K0	(Many lines observed at first)
1110	1	K2	
1111	3	M0	
1112	1	P	
1113	2	F8	
1114	1	G5	
1115	1	K0	
1115a	1	G? G0	Cluster See 10064
1116	4	G0	
1116a	1	a F? F5	Cluster See 10064
1117	2		
1118	5	K0	
1119	1	K5	
1120	4	B	
1121	2	K2	
1122	1	K2	
1123	5	G0	
1124	4	F8	
1124a	1	F5?	Cluster
1125	1	G5	

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1931phae.proj.22710

B 10267 Apr. 27, 1931

1101	-69°	301	4h	53m	14.2s	-69°	0.3'	9.5	✓
1102									Not in C P D
1103									Not in C P D
1104	-69	299	4	52	42.5	-69	37.6	9.4	✓
1105									Not in C P D
1106									Not in C P D
1107	-69	302	4	54	44.0	-69	23.7	9.6	✓
1108									Not in C P D
1109									Not in C P D
1110									Not in C P D
1111	-69	303	4	54	55.0	-69	24.3	9.6	✓
1112									Not in C P D
1113									Not in C P D
1114									Not in C P D
1115									Not in C P D
1116	-69	308	4	57	7.0	-69	1.0	9.4	✓
1117									Not in C P D
1118	-68	292	4	55	20.0	-68	51.8	9.5	✓
1119									Not in C P D
1120	-68	288	4	54	13.0	-68	54.8	9.4	✓
1121	-68	287	4	54	7.0	-68	52.9	9.7	✓
1122									Not in C P D
1123	-68	286	4	54	4.3	-68	36.4	9.3	✓
1124	-68	291	4	55	4.0	-68	39.1	9.6	✓
1125									Not in C P D

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1931phae.proj.22710

Mar. 18, 1931

NE. 9967

F.C.

1126	5	a	Very Nebulous
1127	1	Mo	
1128	1	K2	
1128a	3	B?	nearly emb
1129	3	K0	
1129a	4	B?	nearly emb
1130	2	Mo	
1130a		O	
1131	1	K	
1131a		B	a 150a shows 5007+4959 + Hβ bright.
1132	1	B	
1133	1	B	Very near #32
1134	2	K0	
1135	2	B	
1136	2	B	
1137	4	B5	
1138	1	O	see H.B 801 very ft. star. Identical spn 4567-69.36
1139	3	B	
1140	3	K0	
1141	1	Mo	
1142	5	G0	
1143	2	K2	
1144	1	K7	
1145	6	G0	
1146	6	F8	
1147	2	K2	
1148	1	K5	
1149	1	K7	
1150	5	G0	

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1931phae.proj.22710

B 10267 Apr. 27, 1931

1126	-68°	293	4h	55m	34.3s	-68°	23.9'	Neb.	✓
1127									Not in CPD
1128									Not in CPD
1129									Not in CPD
1130									Not in CPD
1131									Not in CPD
1132									Not in CPD
1133									Not in CPD
1134									Not in CPD
1135									Not in CPD
1136									Not in CPD
1137	-69	309	4	57	13.0	-69	35.2	9.5	✓
1138									Not in CPD
1139	-69	307	4	56	21.5	-69	38.3	9.6	✓
1140	-69	306	4	55	57.0	-69	37.3	9.6	✓
1141									Not in CPD
1142	-69	305	4	55	10.5	-69	41.1	9.2	✓
1143	-69	304	4	55	3.0	-69	40.9	9.6	✓
1144									Not in CPD
1145	-70	328	4	55	26.0	-70	13.9	9.2	✓
1146	-70	329	4	56	31.0	-70	9.3	9.4	✓
1147									Not in CPD
1148									Not in CPD
1149									Not in CPD
1150	-70	330	4	56	34.0	-70	26.2	9.3	✓

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1931phae.proj.22710

Mar. 18, 1931

nF. 9967.

F.C.

1151	3	K2	
1152	3	K0	
1152a	1	a-f	cluster
1153	1	F5-	
1154	2	K5-	
1155	5	G0	
1156	5	F8	
1157	1	a	
1158	1	K0	
1159	2	G0	
1160	1	G5-	
1161	1	F8	
1162	1	K5-	
1163	1	K5-	
1164	1	K2	
1165	2	K0	
1166	1	K2	
1167	2	K0	
1168	1	K2	
1169	3	F8	
1170	1	K0	
1171	1	K5-	
1172	1	K2	
1173	1	K7	
1174	3	K0	
1175	2	F5-	

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1931phae.proj.22710

B 10267 Apr. 27, 1931

1151	-70	332	4h	57m	14.0s	-70°	32.1'	9.6	✓
1152	-70	334	4	57	31.0	-70	26.9	9.7	✓
1153									Not in CPD
1154									Not in CPD
1155	-70	327	4	55	16.5	-70	34.7	9.3	✓
1156	-70	326	4	53	41.5	-70	36.0	9.4	✓
1157									Not in CPD.
1158									Not in CPD
1159	-70	325	4	53	23.0	-70	56.1	9.7	✓
1160									Not in CPD
1161									Not in CPD
1162									Not in CPD
1163									Not in CPD
1164									Not in CPD
1165									Not in CPD
1166									Not in CPD
1167									Not in CPD
1168									Not in CPD
1169	-71	297	4	56	18.8	-71	1.6	9.6	✓
1170									Not in CPD
1171									Not in CPD
1172									Not in CPD
1173									Not in CPD
1174	-70	333	4	57	18.0	-70	48.2	9.6	✓
1175	-70	335	4	57	33.0	-70	54.1	9.7	✓

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1931phae.proj.22710

Mar. 18, 1931

nF 9967

7.C.

1176	1	G_5	
1177	2	K_0	
1178	2	K_5	
1179	1	F_5	
1180	1	K_5	
1181	1	a	
1182	1	K_0	
1183	2	K_5	
1184	1	K_5	
1185	3	K_2	
1186	1	G_0	
1187	1	M_0	
1188	1	G_5	
1189	1	G	
1190	1	K_5	
1191	2	G_0	
1192	1	G_5	
1193	1	P Fe.	~~Like~~ α 15031, chms neb. lines 6707, this is 7327 R Cygni type. Dark wk h. band in violet
1194	1	G_5	
1195	1	G_5	
1196	1	G	
1197	2	F_8	
1198	1	K_0	
1198a	3	Cmt.?	B-a? Sa Jews dark lines reem; bk sp. wk def. No. 40 in Cluster Cat.
1199	6	K_0	
1200	6	K_0	

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1931phae.proj.2271C

B 10267 Apr. 27, 1931

1176								Not in CPD
1177								Not in CPD
1178								Not in CPD
1179								Not in CPD
1180								Not in CPD
1181								Not in CPD
1182								Not in CPD
1183								Not in CPD
1184								Not in CPD
1185								Not in CPD
1186								Not in CPD
1187								Not in CPD
1188								Not in CPD
1189								Not in CPD
1190								Not in CPD
1191								Not in CPD
1192								Not in CPD
1193								Not in CPD
1194								Not in CPD
1195								Not in CPD
1196								Not in CPD
1197								Not in CPD
1198								Not in CPD
1198a	- 0	-	h5	6m	1s	-70°	508.1	
1199	-70	360	5	5	55.0	-70	46.0	9.4
1200	-70	~~360~~ 359	5	5	29.0	-70	50.8	9.4

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1931phae.proj.22710

Mar. 19, 1931

mf 9967

F.C.

1201	2	✓	B5	
1202	3		G0	
1203	2		B8	
1204	3		B	
1205a	5		G5	Fine class on A 15032 where it is esp. from Injection lamp
1205	3		K7	
1206	3		B	
1207	3		B	
1208	2		G5	
1209	3		K0	
1210	5		K0	
1211	1		F8	Iron maximum. See card
1212	2		B	
1213	3		B	
1213a	1		O	
1214	2		G5	G5 m 7577, 7911, 7850, 15029-30, not very sharp G5 m 15064 19972
1215	2		B?	Emission
1216	6		F5	
1217	4		K5	
1218	4		K7	
1219	3		F2	
1220	2		K7	
1221	2		G5	
1222	1	K7	Pq	See 15064
1223	1		K5	
1224	1		K5	Omit
1225	3		G0	

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1931phae.proj.22716

B40923 Apr. 28, 1931

1201	-70°	357	5h	4m	50.0s	-70°	52.0'	9.6	✓
1202	-70	355	5	4	9.0	-70	52.0	9.6	✓
1203									Not in CPD
1204									Not in CPD
1205	-70	352	5	2	45.0	-70	50.9	9.6	✓
1205a	-70	349	5	1	53.0	-70	52.6	9.2	✓
1206	-70	354	5	3	3.0	-70	46.1	9.7	✓
1207									Not in CPD
1208									Not in CPD
1209									Not in CPD
1210	-70	356	5	4	28.0	-70	36.0	9.6	✓
1211									Not in CPD
1212									Not in CPD
1213	-70	358	5	4	55.0	-70	21.9	9.6	✓
1213a									[illegible] in C.P.D
1214									Not in CPD
1215									Not in CPD
1216	-70	353	5	2	48.0	-70	13.5	9.2	✓
1217	-70	351	5	1	59.0	-70	42.0	9.7	✓
1218	-70	348	5	0	23.0	-70	37.8	9.6	✓
1219	-70	345	5	0	41.0	-70	54	9.5	✓
1220									Not in CPD
1221	-70	340	4	59	31.0	-70	43.0	9.6	✓
1222									Not in CPD
1223									Not in CPD
1224									Not in CPD
1225	-70	347	5	0	53.0	-70	32.9	9.6	✓

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1931phae.proj.22710

Mar. 19, 1931

MF 9967

F.C.

1226	2	G5	Omit Hyd. seen on 10064, Neb. clear
1227	2	Pec. K5	~~Neb seen below 1217 seen on A plate~~ H&K bright Ca seen
~~1228~~		p	
1228	3	K0	Too much sup. on 1227 Omit.
1229	5	K0	
1230	3	G0	Another star to violet. Seems like G0 on 10064 last
1231	4	K5	
1232	3	K2	
1233	1	? F8	Omit Perhaps B
1234	2	B	
1235	4	B	
1236	1	K7	
1237	1	K5	
1238	2	Cont.	dark lines suspected. Nebulosity on chart
1239	2	B	Dark lines seen on 9972 Perhaps Bq narrow lines
1240	2	B?	No lines clearly seen
1241	3	Cont.	~~Dark~~ dark lines glimpsed. Nebulosity on chart
1242	2	K2	
1243	4	A0	
1244	1	M0	
1245	3	G0	
1246	1	K7	very faint
1247	3	F5	
1248	2	K5	Uncertain On 10064, hyd. seem clearly.
1249	3	F8	
1250	4	A5	very hazy cluster Good on 10064.

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1931phae.proj.22710

B 40923 Apr. 28, 1931

			h	m	s		'		
1226									Not in CPD
1227	-70°	343	5	0	30.0	-70°	22.4	9.6	✓
1228									Not in CPD
1229	-70	346	5	0	47.0	-70	17.3	9.5	✓
1230	-70	344	5	0	39.0	-70	2.8	9.6	✓
1231	-70	342	5	0	25.0	-70	3.3	9.6	✓
1232	-70	341	5	0	13.0	-70	0.0	9.7	✓
1233									Not in CPD
1234	-70	338	4	58	47.0	-70	3.7	9.7	✓
1235	-70	336	4	57	43.6	-70	1.9	9.4	✓
1236									Not in CPD
1237									Not in CPD
1238									Not in CPD
1239									Not in CPD
1240									Not in CPD
1241									Not in CPD
1242	-69	311	4	58	12.5	-69	50.0	9.6	✓
1243	-69	313	4	58	30.0	-69	51.0	9.4	✓
1244									Not in CPD
1245	-69	316	4	59	59.5	-69	39.9	9.6	✓
1246									Not in CPD
1247	-69	317	5	0	3.5	-69	46.7	9.6	✓
1248	~~-69~~	~~318~~	~~5~~	~~0~~	~~27.0~~	~~-69~~	~~28.3~~	~~9.6~~	Not in CPD
1249	-69	318	5	0	24.0	-69	28.3	9.6	~~Not in CPD~~
1250	-69	314	4	58	38.5	-69	34.7	Neb.	✓

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1931phae.proj.22710

Mar. 19, 1931

NF 9967

F.C.

1251	2	K5	
1252	1	K7	
1253	2	K2	Image on 40923 appears blue double.
1254	2	~~F8~~	On 10864 H & K seem very clearly, narrow, K.N.S. Prob. B8
1255	2	K5	
1256	1	K0	
1257	3	G0	
1258	2	K7	
1259	2	G5	Certainly not G5 on 9972. Uncertain. Omit.
1260	3	K5	
1261	2	F8	
1262	2	Neb.	Dark lines seen
1263	1	K5	very faint but appears like K-K5 on 9972
1264	2	K5	
1265	5	K5	
1266	2	F8	Shiny in violet light.
1267	1	K7	very uncertain
1268	1	K5	Probably 0.K
1269	2	cont. Rec.	Card Almost cont. Br. lines in violet? May be defects
1270	1	K0	
1271	5	K0	
1272	4	G0	
1273	3	G0	
1274	1	F5	
1275	2	F2	

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1931phae.proj.22710

B 40923 Apr. 28, 1931

1251								Not in CPD
1252								Not in CPD
1253								Not in CPD
1254								Not in CPD
1255	-69°	319	5h	0m	33.5s	-69°	4'.3	9.5 Not in C.P.D.
1256								Not in CPD
1257								Not in CPD
1258								Not in CPD
1259								Not in CPD
1260								Not in CPD
1261								Not in CPD
1262								Not in CPD
1263								Not in CPD
1264								Not in CPD
1265	-69	322	5	2	25.5	-69	9.8	9.6
1266								Not in CPD
1267								Not in CPD
1268								Not in CPD
1269								Not in CPD
1270								Not in CPD
1271	-69	323	5	3	9.5	-69	23.3	9.6
1272	-69	324	5	3	12.5	-69	30.1	9.6
1273	-69	325	5	3	30.0	-69	30.5	9.6
1274								Not in CPD
1275								Not in CPD

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1931phae.proj.22710

Mar. 19, 1931

nF 9967

F. C.

1276	1		K5	
1277	3	.	✓ F5	
1278	2	Neb	G5	A neb. or nebulous star in clear field. Dark lines seen.
1279	4		✓ G5	Cluster. Very hazy.
1280	2		G0	
1281	4		G0	
1282	1		G5	Omit
1283	2	.	✓ K5	
1284	3		✓ G0	
1285	2		✓ K0	
1286	2		✓ G5	
1287	4		✓ K0	
1288	3		✓ K5	
1289	4		✓ F8	
1290	1		✓ K2	
1291	1		✓ K7	
1292	1		G5	
1293	3		G0	
1294	2		F8	
1295	4		G0	
1296	4		✓ M0	
1297	1		✓ F8	
1298	5		✓ K5	
1299	5		✓ G5	
1300	2		M0	

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1931phae.proj.22710

B 40923 Apr. 28, 1931

1276									Not in CPD
1277									Not in CPD
1278									Not in CPD
1279	-69°	330	5h	5m	56.5s	-69°	34.1'	neb.	
1280									Not in CPD
1281	-69°	326	5	4	52.5	-69	54.8	9.6	
1282									Not in CPD
1283									Not in CPD
1284	-70	362	5	6	51.0	-70	2.9	9.6	
1285									Not in CPD
1286	-70	365	5	7	29.0	-70	11.9	9.7	
1287	-70	368	5	7	53.0	-70	15.3	9.5	
1288									Not in CPD
1289	-70°	361	5	6	19.0	-70	29.1	9.5	
1290									Not in CPD
1291									Not in CPD
1292									Not in CPD
1293									Not in CPD
1294									Not in CPD
1295	-70	370	5	10	18.0	-70	16.3	9.6	
1296									Not in CPD
1297									Not in CPD
1298	-70	372	5	11	25.0	-70	36.0	9.6	
1299	-70	371	5	11	7.0	-70	41.9	9.5	
1300									Not in CPD

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1931phae.proj.22710

Mar. 20, 1930

207 + 9967

7.C.

1301	4	F5
1301a	2	~~F5~~
1302	1	K7
1303	1	F8
~~1303a~~		~~F5~~ Impln
1304	4	B-A (B8?)
1305	2	K5
1305a	2	Cont.
1306	1	K8
1306a	4	B
1307	2	F5
1308	3	G0
1309	2	G5
1310	5	F5
1311	2	G0
1311a	1	P on a 1503/2
1312	1	G5
1313	2	F8
1314	2	K2
1315	2	F5
1316	1	G5
1317	1	F8
1318	1	K2
1319	2	K0
1320	2	m0
1321	2	F5 ~~vey~~ fl.
1322	1	F8 very fl. — Close neighbor shows are K line. Prism 20/64 on 4972 plate looks like violet. Perhaps B3 Orion
1323	1	K0
1324	1	F5
1325	3	ap[2]

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1931phae.proj.22710

B 5720 Apr. 29, 1931

1301	−70°	369	5h	9m	11.0s	−70°	52.'4	9.5	✓
1301a									Not in CPD
1302									Not in CPD
1303									Not in CPD
1304									Not in CPD
1305									Not in CPD
1305b	−70	363	5	7	6.0	−70	41.7	9.7	✓
1306									Not in CPD
1306a	−70	367	5	7	33.0	−70	38.9	9.6	✓
1307									Not in CPD
1308									Not in CPD
1309									Not in CPD
1310	−70	373	5	12	40.0	−70	34.6	9.4	✓
1311									Not in CPD
1312									Not in CPD
1313									Not in CPD
1314									Not in CPD
1315	−71	326	5	16	34.0	−71	11.4	9.6	✓
1316									Not in CPD
1317									Not in CPD
1318									Not in CPD
1319									Not in CPD
1320	−71	328	5	18	41.0	−71	4.3	9.6	✓
1321									Not in CPD
1322									Not in CPD
1323									Not in CPD
1324									Not in CPD
1325									Not in CPD

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1931phae.proj.22710

Mar. 20, 1931

NF 9967

Z.C.

1326	1	F2	
1327	1	F5	
1328	1	dm0	
1329	1	F2	
1330	1	G0	very fc. Probably comet
1331	3	F2	
1332	2	K0	
1333	4	G5 K0	Defective in 9967. Not plotted with G5 in 10364 + 9972
1334	2	G5	
1335	3	K0	
1336	1	G	Omit Probably earlier type. Long residual, although it looks plotted on 10364, but not on 9972
1337	5	F8	
1338	4	G5	
1339	3	F8	
1340	1	F2	
1341	1	K7	Uncertain. Omit.
1342	1	dm0	Seems O.K. Fl.
1343	1	a2	
1344	1	a5	
1345	2	G5	
1346	7	F5	
1347	1	F8	
1348	1	G	Almost comet. Probably not G test B. Best in 9972
1349	2	K0	
1350	2	K5	

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1931phae.proj.22710

B5720 Apr. 29, 1931

1326								Not in CPD
1327								Not in CPD
1328								Not in CPD
1329								Not in CPD
1330								Not in CPD
1331								Not in CPD
1332								Not in CPD
1333								Not in CPD
1334								Not in CPD
1335								Not in CPD
1336								Not in CPD
1337	-70°	380	5h	16m	55.0s	-70°	37.9'	9.4 ✓
1338								Not in CPD
1339								Not in CPD
1340								Not in CPD
1341								Not in CPD
1342								Not in CPD
1343								Not in CPD
1344								Not in CPD
1345								Not in CPD
1346	-70	386	5	23	5.0	-70	41.1	9.0 ✓
1347								Not in CPD
1348								Not in CPD
1349								Not in CPD
1350								Not in CPD

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1931phae.proj.22710

Mar. 20, 1931

nF 9967

7. C.

1351	1	~ A7	
1352	3	~ K0	
1353	3	~ F5	
1354	3	~ G0	
1355	4	~ F2	
1356	2	· M0	
1357	2	G5	F8 on 9972 which appears blue in one certain.
1358	1	· F2	
1359	1	· K0	
1360	3	~ G0	
1361	6	~ G5	
1362	1	· K5	
1363	2	· G5	
1364	3	~ G0	Long violet arc
1365	2	G0	Almost end. Probably carbon type
1366	1	F8	Sorfl. Omit
1367	3	G0	✓
1368	3	F5	✓
1368a		P	Bm A7577. Probably B0 or A5
1369	5	Cont.	dark lines barely seen.
1370	2	· A7	hydrogen lines narrow.
1371	3	· Cont.	
1372	2	F5	Uncertain.
1373	1	· K7	Image nebulous
1374	2	· G5	
1375	4	· G0	

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1931phae.proj.22715

B 5720 Apr. 29, 1931

1351									Not in CPD
1352									Not in CPD
1353	-70°	390	5h	26m	14.0s	-70°	22.'3	9.6	
1354									Not in CPD
1355	-70	387	5	23	47.0	-70	21.9	9.6	
1356									Not in CPD
1357									Not in CPD
1358									Not in CPD
1359									Not in CPD
1360	-70	385	5	22	59.0	-70	6.0	9.7	
1361	-69	368	5	23	15.5	-69	52.5	9.6	
1362									Not in CPD
1363									Not in CPD
1364	-70	383	5	20	44.0	-70	4.2	9.7	
1365									Not in CPD
1366									Not in CPD
1367									Not in CPD
1368									Not in CPD
1369	-69	353	5	18	52.5	-69	58.5	9.5	
1370									Not in CPD
1371	-69	351	5	18	21.0	-69	54.3	9.6	
1372									Not in CPD
1373									Not in CPD
1374									Not in CPD
1375	-69	347	5	17	26.0	-69	56.2	9.6	

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1931phae.proj.22710

Mar. 20, 1931

J 9967

I. C.

1376	4	~	K2	
1377	3	~	G5	
1378	1	~	K5	
1379	5	~	G0	
1380	1	#	G5	very long violet. Ornstein
1381	1	~	G0	
1382	1	~	G5	
1383	2	~	K2	
13836	4	~	75 G0	
1384	4			
1385	4	~	G0	
1386	5	~	K2	
1387	1		K2	Hγ, Hδ very shiny in 1006A. Near F.
1388	5	~	F0	
1389	4	~	G0	
1390	1		M0:	Appears O.K but very pl.
1391	2	~	M0	
1392	1		G	
1393	1	~	F2	
1394	3	~	K0	
1395	2	~	M0	
1396	1		F8	very pl. Perhaps O.K
1397	2	~	G5	
1398	2	~	K5	
1399	1	~	K7	
1400	2	~	K5	

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1931phae.proj.22710

B 5720 Apr. 29, 1931

1376									Not in CPD
1377									Not in CPD
1378									Not in CPD
1379	-69°	346	5h	15m	46.0s	-69°	47.'6	9.4	✓
1380									Not in CPD
1381									Not in CPD
1382									Not in CPD
1383									Not in CPD
1383b	-70	376	5	15	36.0	-70	5.4	9.7	✓
1384									Not in CPD
1385									Not in CPD
1386									Not in CPD
1387									Not in CPD
1388	-69	339	5	12	20.0	-69	51.3	9.6	✓
1389	-69	338	5	11	48.0	-69	53.8	9.6	✓
1390									Not in CPD
1391									Not in CPD
1392									Not in CPD
1393									Not in CPD
1394	-69	333	5	10	6.5	-69	45.2	9.7	✓
1395									Not in CPD
1396									Not in CPD
1397									Not in CPD
1398									Not in CPD
1399									Not in CPD
1400									Not in CPD

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1931phae.proj.22710

Mar. 21, 1931

17 + 9967 +

F.C.

1401	3	K0	
1402	5	K0	
1403	1	G5	very fl.
1404	3	G5	
1405	2	K0	Omit. Too much esp. in aliens of a cluster.
1406	2	F8	
1407	2	K2	
1408	2	G5	
1409	3	K7	
1410	1	C	One broad band in hazy sp
1410a	1	O	
1411	2	K0	
1412	3	Cont.	Dark lines suspected
1413	3	A2	hazy. Cluster?
1414	1	K7	
1415	4	F2	
1416	2	K2	
1417	4	K7	
1418	2	K0	
1419	1	A5	Only violet end seen clearly.
1420	3	K7	
1421	5	Cont.	
1422	2	K5	
1423	3	~~Cont.~~	PCyg. type
1424	1	K2	
1425	4	G0	

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1931phae.proj.22710

B 5720 Apr. 29, 1931

1401									Not in C.P.D.
1402									Not in C.P.D.
1403									Not in C.P.D.
1404									Not in C.P.D.
1405									Not in C.P.D.
1406									Not in C.P.D.
1407									Not in C.P.D.
1408									Not in C.P.D.
1409									Not in C.P.D.
1410									Not in C.P.D.
1410a									
1411									Not in C.P.D.
1412									Not in C.P.D.
1413									Not in C.P.D.
1414									Not in C.P.D.
1415									Not in C.P.D.
1416									Not in C.P.D.
1417									Not in C.P.D.
1418									Not in C.P.D.
1419									Not in C.P.D.
1420									Not in C.P.D.
1421	-69°	341	h 5	m 14	s 27.0	-69°	′ 40.7	9.4	
1422									Not in C.P.D.
1423									Not in C.P.D.
1424									Not in C.P.D.
1425									Not in C.P.D.

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1931phae.proj.22710

Mar. 21, 1931

MF 9967

F.C.

1426	4		Cont.
1427	1	✓	K7
1428	1	✓	K0
1429	2	✓	M0
1430	5		Cont.
1430a	1		O
1431	3	✓	G0
1432	2		Cont. ~~G5~~
1433	7		Cont.
~~1433a~~			
1434	3		Cont.
1434a	-		Pl. Type B. Hyd. lines Very hazy. A cluster or nebulous star.
1435	3	✓	A
		✓	K7
1436	6		
1437	8 4	✓	G5
1438	6	✓	F8
1439	3	✓	G5
1440	2	✓	K5
1441	5	✓	K0
1442	3	✓	K2
1443	6	✓	A Very hazy. Cluster. Hyd. lines seen
1444	4		Cont. dark lines suspected.
1444a	5		Cont. on A 7585 ~~B~~ a few dark lines seen. Class not definite.
1445	0	✓	K0
1445a	6		Neb. Hβ bright on A 7585 Pl. Type.
1446	2	✓	G0
1447	6	✓	G0
~~1447a~~			~~Hβ lines. Dark? Type 5, Hβ bright~~
1448	3		A7 G5 Cluster? K<H Hγ, Hδ seen. All very hazy
1448a	2		O Ba G5 On A 15031.32, bright lines seen. Perhaps Ca. Hβ and band 4685 bright?
1449	2		
1450	3		Cont. dark lines suspected.
1447a	1		Pec Hγ Hδ b. Lee can't Probably a neb.

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1931phae.proj.22716

B5720 Apr. 29, 1931

1426									not in CPD
1427									not in CPD
1428									not in CPD
1429									not in CPD
1430	-69°	345	5h	15m	22.0s	-69°	22.1'	9.6	
1431									not in CPD
1432									not in CPD
1433	-69	344	5	14	33.5	-69	28.2	9.4	
1434	-69	342	5	14	28.5	-69	26.2	9.6	
1435									not in CPD
1436	-69	343	5	14	29.0	-69	8.7	9.6	
1437									not in CPD
1438	-68	347	5	15	59.0	-68	58.5	9.4	
1439									not in CPD
1440									not in CPD
1441	-69	348	5	17	35.5	-69	11.5	9.6	
1442									not in CPD
1443	-69	350	5	18	16.5	-69	28.0	neb.	
1444	-69	352	5	18	48.5	-69	23.5	9.4	
1444a	-69	355	5	19	2.0	-69	21.5	neb	
1445	-69	358	5	19	19.0	-69	29.2	9.4	
1445a	-69	356	5	19	6.0	-69	22.7	9.4	
1446									not in CPD
1447	-69	354	5	19	1.0	-69	41.1	9.3	
1447a									
1448	-69	359	5	19	32.5	-69	31.9	neb.	
1449									not in CPD
1450									not in CPD

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1931phae.proj.22710

Mar. 21, 1931

D F 9967

F.C.

1451	3	O	s. f. component and faint
1451a	H	Cont.	n. f. "
1452	3	A ~~F8~~	Very blurry. Only hydrogen clearly seen. D, E, F shows on longer
1453	2	A3	
1452a	1	Pec	Bright lines appear only in spectrum of comp. Ca appears as 5007 + 4554 mk. in Cor.
1454	1	F5	
1455	3	Cont.	
1456	6	A3	
1457	3	Cont	Strong South K, blend spectrum
1458	4	B0	Same as in a 2901
1459	6	K0	
1460	6	F5	
1461	2	F0	
1462	1	K0	
1463	1	G5	
1464	3	M0	
1465	4	F2	Scratched. Adopt #8, 9972, 10066
1466	2	K0	
1467	2	K2	
1468	2	K0	
1469	4	Cont.	On a 2901 B?
1470	5	G0	
1471	3	G5	
1472	7	K0	
1473	1	K7	
1474	1	K2	
1475	2	G5	

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1931phae.proj.22710

B 5720 Apr. 29, 1931

1451									Not in CPD
1451a	-69°	361	5h	20m	18.5s	-69°	46.4′	9.4	
1452									Not in CPD
1453									Not in CPD
1454									Not in CPD
1455									Not in CPD
1456	-69	364	5	22	4.5	-69	34.6	9.4	✓
1457	-69	365	5	22	12.0	-69	33.6	9.7	✓
1458	-69	367	5	22	19.5	-69	34.0	9.6	✓
1459	-69	363	5	21	46.0	-69	22.5	9.5	✓
1460	-69	362	5	21	7.5	-69	9.5	9.4	✓
1461									Not in CPD
1462									Not in CPD
1463									Not in CPD
1464									Not in CPD
1465	-68	364	5	23	3.0	-68	45.2	9.7	✓
1466									Not in CPD
1467									Not in CPD
1468									Not in CPD
1469									Not in CPD
1470	-69	369	5	24	13.0	-69	40.2	9.7	✓
1471									Not in CPD
1472	-69	370	5	24	39.0	-69	36.6	9.8	✓
1473									Not in CPD
1474									Not in CPD
1475									Not in CPD

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1931phae.proj.2271C

Mar. 21, 1931

~~Omit~~ 9967

F.C.

1476	5	G0	
1477	5	M0	
1478	5	Cont.	On 9901 B?
1479	6	K0	
1480	2	F8	
1481	1	K0	
1482	2	~~G5~~	Reject G5 See 9972 or how it is As.
1483	4	G0	
1484	3	A2	
1485	1	A ~~F2~~	Hδ, Hε narrow. others not well seen.
1486	4	G5	
1487	1	K0	
1488	3	K0	
1489	1	K5	
1490	1	K7	
1491	2	G5	strong lines seen.
1492	1	F5	
1493	4	O	Two stars whose sp. are superposed. A 7577 shows that the h. band
1493a		B?	belongs to the preceding star. The lines not in B5720.
1494	4	Cont.	Dark line seems possibly late B type
			Omit. Two sp. superposed.
1495	5	G5	Reject G5. Certainly B. On 9967, faintly susp. at violet end
1496	4	F8	
1497	4	Cont.	
1498	2	F2	
1499	3	B	
1500	2	G5	

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1931phae.proj.22710

B 5720 Apr. 29, 1931

1476	-70°	388	5m	24s	51.0	-70°	13.6	9.6	✓
1477	-70	389	5	25	23.0	-70	7.5	9.4	✓
1478									Not in CPD
1479	-70	391	5	26	43.0	-70	17.7	9.6	✓
1480									Not in CPD
1481									Not in CPD
1482									Not in CPD
1483									Not in CPD
1484									Not in CPD
1485									Not in CPD
1486	-70	3700	5	31	0.0	-70	21.0	9.6	Not in CPD
1487									Not in CPD
1488									Not in CPD
1489									Not in CPD
1490									Not in CPD
1491									Not in CPD
1492									Not in CPD
1493									Not in CPD
1494									Not in CPD
1495	-71	348	5	32	29.0	-71	9.2	9.6	✓
1496	-71	350	5	32	46.0	-71	11.4	9.6	✓
1497	-71	351	5	32	56.0	-71	9.2	9.7	✓
1498									Not in CPD
1499									Not in CPD
1500									Not in CPD

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1931phae.proj.22710

Mar. 24, 1931

F 9967

Z.C.

	1501	3	F8	
1500a	~~1501~~	1	g	Partly sup on 1501
	1502	3	K0	
	1503	4	B	
	1504	3	K2	
	1505	2	F5	
	1506	2	M0	
	1507	2	M0	
	1507a	4	g	
	1508	5	G0	
	1509	4	G5	
	1510	4	G0	
	1511	3	K0	
	1512	1	F8	
	1513	1	A5	
	1514	3	G0	
	1515	2	G0	
	1516	2	A5	
	1517	4	B ~~F5~~	Reject F5. B on cereal plates
	1518	3	G0	
	1519	2	G0	
	1520	5	G5	
	1521	2	F8	
	1522	8	Cont.	Parhaley B.
	1523	4	K7	
	1524	1	F8	
	1525	1	A5 ~~F2~~	Reject F2. A5 on cereal plates

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1931phae.proj.2271c

B 4503 Apr. 30, 1931

1501	-70°	405	5h	32m	28.0s	-70°	29.1'	9.7	✓
1502	-70	404	5	32	9.0	-70	7.0	9.7	✓
1503	-69	389	5	32	50.2	-69	58.2	9.4	✓
1504	-70	397	5	29	26.0	-70	1.5	9.7	✓
1505									Not in CPD
1506									Not in CPD
1507									Not in CPD
1507a									
1508	-69	376	5	27	28.0	-69	33.0	9.3	✓
1509	-69	372	5	26	30.0	-69	28.3	9.7	✓
1510	-69	371	5	26	27.5s	-69	27.0	9.7	✓
1511									Not in CPD
1512									Not in CPD
1513									Not in CPD
1514	-69	374	5	26	49.0	-69	11.0	9.6	✓
1515	-69	375	5	26	52.5	-69	10.6	9.6	✓
1516									Not in CPD
1517	-68	378	5	29	17.5	-68	59.6	9.6	✓
1518	-68	380	5	29	26.0	-68	57.5	9.6	✓
1519									Not in CPD
1520	-68	381	5	30	12.5	-68	57.6	9.2	✓
1521									Not in CPD
1522									Not in CPD
1523									Not in CPD
1524									Not in CPD
1525									Not in CPD

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1931phae.proj.2271C

Mar. 24, 1931

MF 9967

F.C.

1526	2	✓ K2	
1527	1	✓ F8	
1528	6	Cont.	B on Q 15032
1529	4	✓ B9	
1530	2	Cont.	Probably B
1531	4	Cont.	
1532	3	Cont.	
1533	5	Cont.	
1534	2	✓ K0	
1535	4	Cont	
1536	1	K0	
1537	1	K2	
1538	1	✓ K7	
1539	2	Cont.	
1540	3	✓ M0	
1541	2	✓ F5	
1542	6	✓ G0	
1543	3	✓ G5	
1544	2	✓ F5	
1545	3	K0	
1546	1	✓ K5	
~~46a~~	~~4~~	~~Cont.~~	
1547	3	K0	
~~1547a~~	~~2~~	~~O~~	
1548	3	Cont.	
~~46a~~	~~1~~	~~O~~	
1549	17	Fm Cont.	A 7577 almost Hβ, Hγ, P Cyg. class
~~46a~~	~~3~~	~~K5~~	
1550	2	✓ G0	

Add this number 2201-13 7
see p. 220.

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1931phae.proj.2271C

B 4503 Apr. 30, 1931

1526									Not in CPD
1527									Not in CPD
1528	-68°	386	5h	32m	31.5s	-68°	37.7′	9.4	✓
1529	-68	385	5	31	42.0	-68	50.1	9.6	✓
1530									Not in CPD
1531	-69	387	5	31	42.0	-69	8.2	9.6	✓
1532	-69	386	5	31	24.5	-69	14.4	9.6	✓
1533	-69	385	5	31	19.0	-69	24.9	9.4	✓
1534									Not in CPD
1535	-69	388	5	31	50.5	-69	36.6	9.4	✓
1536									Not in CPD
1537									Not in CPD
1538									Not in CPD
1539									Not in CPD
1540	-69	390	5	32	52.5	-69	14.8	9.6	✓
1541									Not in CPD
1542	-69	391	5	33	23.0	-69	18.0	9.4	✓
1543									Not in CPD
1544									Not in CPD
1545									Not in CPD
1546									Not in CPD
1547									Not in CPD
1547a									
1548	-69	391	5	36	10.2	-69	49.4	9.5	✓
1549	-69	401	5	33	21.7	-69	45.0	9.5	✓
1550	-70	410	5	35	56.0	-70	5.0	9.8	✓

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1931phae.proj.2271C

Mar. 24, 1931

NF 9967

F.C.

1551	2	K0	
1552	1	K2	
1553	1	K0	
1554	2	A7	hazy. cluster.
1555	2	K0	
1556	1	K5	
1557	1	F5	
1558	2	G0	
1559	2	F8	
1560	1	F8	
1561	2	G0	
1562	1	K7	
1563	4	F8	
1564	4	K0	
1565	5	A2	
1566	2	Cont.	dark lines suspected. cluster.
1567	5	G0	
1568	3	F8	
1569	5	F2	
1570	2	K2	
1571	1	F8	
1572	3	F5	
1573a	2	G0	
1573	4	K0	
1573a	1	P	on a plates, Hp. 5007, 4959, on MF plates H γ bright.
1574	2	G0	
1575	2	G0	

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1931phae.proj.2271C

B 4503 Apr. 30, 1931

1551								Not in CPD
1552								Not in CPD
1553								Not in CPD
1554								Not in CPD
1555								Not in CPD
1556								Not in CPD
1557								Not in CPD
1558								Not in CPD
1559								Not in CPD
1560								Not in CPD
1561								Not in CPD
1562								Not in CPD
1563	-70	406	5	33	33.0	-70	37.0	9.4 ✓
1564	-70	408	5	35	9.5	-70	33.6	9.7 ✓
1565	-70	409	5	35	12.0	-70	30.9	9.6 ✓
1566								Not in CPD
1567	-70	413	5	36	56.0	-70	34.6	9.5 ✓
1568	-70	415	5	37	29.0	-70	39.6	9.9 ✓
1569	-70	418	5	37	50.5	-70	48.0	9.6 ✓
1570								Not in CPD
1571								Not in CPD
1572	-71°	359	5	39	31.5	-71	5.7	10.1 ✓
1573	-70	425	5	40	0.5	-70	48.3	9.7 ✓
1574	-71	364	5	40	50.5	-71	5.8	10.1 ✓
1575	-70	427	5	40	39.5	-70	58.0	10.1 ~~Not in CPD~~

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1931phae.proj.2271C

Mar. 24, 1931

QF 99.67

F.C.

1576	1	K0
1577	3	G0
1578	1	K0
1579	4	K2
1580	1	G0
1581	2	F8
1582	1	F8
1583	4	G0
1584	2	K0
1585	2	K7
1586	1	K0
1587	2	G0
1588	3	A0
1589	1	F8
1590	3	F8
1591	1	K0
1592	1	A7
1593	1	F
1594	1	F8
1595	4	G0
1596	1	F8
1597	2	K0
1598	2	F8
1599	3	F5
1600	1	F8

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1931phae.proj.22710

B 4503 Apr. 30, 1931

1576									Not in CPD
1577	-71°	366	5	42	21.5	-71	16.5	9.6	
1578									Not in CPD
1579	-71	367	5	42	27.5	-71	8.8	9.7	
1580									Not in CPD
1581	-71	369	5	44	5.5	-71	32.7	10.2	
1582									Not in CPD
1583	-71	373	5	45	3.0	-71	23.6	9.7	
1584	-71	372	5	44	57.0	-71	15.0	10.2	
1585	-71	371	5	44	49.0	-71	12.6	10.2	
1586									Not in CPD
1587	-71	368	5	43	0.5	-71	3.0	10.2	
1588	-70	434	5	42	52.0	-70	54.1	9.9	
1589									Not in CPD
1590	-70	441	5	44	21.5	-70	57.3	10.1	
1591									Not in CPD
1592									Not in CPD
1593									Not in CPD
1594									Not in CPD
1595	-71	376	5	48	42.5	-71	2.8	9.6	
1596									Not in CPD
1597									Not in CPD
1598									Not in CPD
1599	-70	436	5	43	8.0	-70	42.8	10.0	
1600									Not in CPD

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1931phae.proj.2271C

Mar. 27, 1931

DF. 9967 ...

Z.C.

1601	3	Go	
1602	2	Go	
1603	2	F8	
1604	5	F2	
1605	1	F8	
✓ 1606	1	F5	
1607	5	G5	
1608	1	K5	
1609	2	Go	
1610	2	Mo	
1611	3	Cl.	dark lines seen.
1612	5	Go	
1613	2	Ko	
1614	2	Ko	
1615	2	G5	
1616	3	Go	
1617	2	Go	
1618	1	G5	
1619	1	K5	
1620	1	F5	
1621	1	K2	
1622	3	A7	Classified from violet end
1623	2	G5	
1624	1	Mo	~~Ca. lines? with enfinish~~
1625	2	Ko	
1625a	2	K7	

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1931phae.proj.22710

B 35050 Apr. 24, 1931

1601	-70°	430	5h	41m	36.0s	-70°	26.7'	10.1	
1602									Not in CPD
1603									Not in CPD
1604	-70	426	5	40	23.5	-70	39.0	9.6	
1605									Not in CPD
1606									Not in CPD
1607	-70	424	5	39	32.5	-70	31.9	9.7.	
1608									Not in CPD
1609									Not in CPD
1610									Not in CPD
1611	-70	419	5	38	13.0	-70	13.9	Neb.	
1612	-70	417	5	37	48.5	-70	22.0	9.7	
1613									Not in CPD
1614									Not in CPD
1615	-70	414	5	37	28.0	-70	5.1	10.2	
1616	-70	416	5	37	36.0	-70	4.1	10.1	
1617	-69	407	5	36	51.0	-69	55.6	10.1	
1618	-69	411	5	36	57.0	-69	47.8	10.2	
1619									Not in CPD
1620	-69	424	5	37	37.5	-69	41.6	10.2	
1621	~~-69~~	~~430~~	5	~~38~~	~~6.5~~	~~-69~~	~~42.6~~	~~10.2~~	Not in C.P.D.
1622	-69	455	5	39	35.0	-69	49.6	9.6	
1623	-69	460	5	39	42.0	-69	49.1	10.1	
1624									Not in CPD
1625	-70	429	5	40	48.0	-70	8.3	10.2	
1625a	-70	423	5	39	22.0	-70	4.1	10.1	

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1931phae.proj..2271C

Mar. 27, 1931

Dec. 9967

F. C.

1626	3	G_5^-
1627	6	G_5^-
1628	3	G_0
1629	2	Cont.
1630	2	G_5^-
1631	2	G
1632	1	F_2
1633	4	K_0
1634	4	K_5^-
1635	2	G_0
1636	1	G_5^-
1637	1	F_8
1638	1	K_0
1639	1	K_0
1640	1	G_0
1641	4	K_1
1642	1	K_0
1643	2	K_2
1644	3	G_5^-
1645	2	K_5^-
1646	2	G_0
1647	5	F_8
1648	4	G_5^-
1649	4	F_8
1650	3	G_0

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1931phae.proj.2271c

B 35050 Apr. 24, 1931

1626	-70°	428	5h	40m	42.0s	-70°	0.9'	10.1	
1627	-69	488 9	5	41	36.3	-69	55.1	9.4	
1628	-70	431	5	42	27.0	-70	7.6	10.1	
1629	-70	435	5	42	52.0	-70	4.0	10.1	
1630	-70	437	5	43	47.0	-70	16.7	10.2	~~Not in CPD~~
1631									Not in CPD
1632									Not in CPD
1633	-70	440	5	44	5.0	-70	3.2	10.1	
1634	-70	444	5	45	4.3	-70	1.0	10.1	
1635									Not in CPD
1636									Not in CPD
1637									Not in CPD
1638									Not in CPD
1639									Not in CPD
1640									Not in CPD
1641	-70	459 4	5	49	5.0	-70	33.0	9.9	
1642									Not in CPD
1643									Not in CPD
1644									Not in CPD
1645									Not in CPD
1646	-70	458	5	51	47.0	-70	39.0	10.1	
1647	-70	459	5	52	1.0	-70	37.5	9.7	
1648	-70	463	5	52	54.0	-70	41.5	9.9	
1649	-70	464	5	53	3.0	-70	54.4	9.7	
1650	-71	390	5	53	11.0	-71	0.9	9.9	

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1931phae.proj.2271C

Mar. 27, 1931

17 9967.

F.C.

1651	1	$G5^-$	
1652	2	$G0$	
1653	2	$G0$	
1654	3	Cl.	dark lines resemble A3
1655	4	$G0$	
1656	4	$F5$	
1657	1	$F8$	
1658	2	$K0$	
1659	2	$G5^-$	
1660	2	$G0$	
1661	3	$G0$	
1662	4	$F5^-$	
1663	2	$F5^-$	
1664	2	A7	
1665	2	$G0$	
1666	1	$F2$	
1667	3	$G0$	
1668	2	$M0$	
1669	3	$F8$	
1670	1	$K5^-$	
1671	1	$K0$	
1672	1	G	
1673	1	$G5^-$	
1674	1	$K0$	
1675	2	$F8$	

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1931phae.proj.2271c

B 35050 Apr. 24, 1931

			h	m	s		'		
1651									Not in CPD
1652									Not in CPD
1653									Not in CPD
1654									Not in CPD
1655	-70°	465	5	53	56.0	-70°	56.3	9.7	
1656	-70	466	5	54	23.2	-70	59.6	9.9	
1657									Not in CPD
1658	-70	468	5	55	2.0	-70	59.3	10.0	
1659									Not in CPD
1660									Not in CPD
1661	-70	469	5	55	27.0	-70	39.1	9.9	
1662	-70	470	5	55	31.0	-70	39.8	9.6	
1663	-70	471	5	55	44.0	-70	36.1	10.0	
1664									Not in CPD
1665									Not in CPD
1666									Not in CPD
1667	-70	476	5	58	14.0	-70	17.8 +8	10.0	
1668									Not in CPD
1669	-70	474	5	57	1.0	-70	15.1	10.2	
1670									Not in CPD
1671									Not in CPD
1672									Not in CPD
1673									Not in CPD
1674									Not in CPD
1675									Not in CPD

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1931phae.proj.2271C

Mar. 27, 1931

M 7 9967

F.C.

1676	2	K7
1677	3	Cont.
1678	1	G
1679	1	G5
1680	1	F8
1681	3	G5
1682	3	K0
1683	1	K2
1684	2	G0
1685	3	G0
1686	1	F8
1687	1	K0
1688	1	G5
1689	3	G5
1690	3	F8
1691	3	K0
1692	2	G5
1693	3	G0
1694	1	G0
1695	1	K0
1696	1	F8
1697	1	K0
1698	2	G5
1699	3	G5
1700	3	M0

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1931phae.proj.22710

B 35050 Apr. 24, 1931

1676									Not in CPD
1677	-70°	461	5h	52m	44.0s	-70°	18.6'	10.1	✓
1678									Not in CPD
1679									Not in CPD
1680									Not in CPD
1681	-70	457	5	51	17.0	-70	12.8	10.1	✓
1682	-70	456	5	51	3.0	-70	3.1	10.1	✓
1683									Not in CPD
1684									Not in CPD
1685	-69	535	5	52	17.5	-69	55.6	9.8	✓
1686									Not in CPD
1687									Not in CPD
1688									Not in CPD
1689	-69	537	5	53	84.5	-69	43.9	10.0	✓
1690	-69	549	5	54	32.0	-69	58.0	10.0	✓
1691	-69	546	5	55	31.5	-69	47.6	10.2	✓
1692									Not in CPD
1693									Not in CPD
1694									Not in CPD
1695									Not in CPD
1696									Not in CPD
1697									Not in CPD
1698									Not in CPD
1699	-69	552	5	58	46.5	-69	36.8	10.1	✓
1700	-69	553	5	59	17.0	-69	34.6	10.2	✓

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1931phae.proj.2271C

Mar. 27, 1931

M.F 9967

F.C.

1701	4	a_0
1702	2	m_0
1703	2	F_0
1704	1	K_5
1705	3	K_7
1706	6	y_0
1707	2	K_7
1708	3	K_0
1709	2	K_2
1710	2	K_5
1711	1	K_7
1712	4	F_8
1713	3	F_2
1714	2	F_2
1715	7	y_0
1716	4	F_5
1717	1	K_5
1718	2	K_0
1719	1	K_2
1720	1	F_8 Smith. Too much asp. in ochre sp.
1721	2	K_7
1722	3	K_5
1723	4	y_5
1724	1	m_0
1725	3	K_0

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1931phae.proj.22710

B40901 Apr. 27, 1931

1701	-69°	283	4h	36m	12.5s	-69°	18.'0	9.6	↓
1702									Not in CPD
1703									Not in CPD
1704									Not in CPD
1705									Not in CPD
1706	-69	285	4	39	22.0	-69	59.9	9.5	↓
1707									Not in CPD
1708									Not in CPD
1709									Not in CPD
1710									Not in CPD
1711									Not in CPD
1712	-69	287	4	40	53.0	-69	24.0	9.7	↓
1713									Not in CPD
1714									Not in CPD
1715	-69	289	4	43	7.5	-69	18.4	8.8	↓
1716	-69	288	4	42	38.5	-69	31.8	9.6	↓
1717									Not in CPD
1718									Not in CPD
1719									Not in CPD
1720									Not in CPD
1721									Not in CPD
1722									Not in CPD
1723									Not in CPD
1724									Not in CPD
1725									Not in CPD

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1931phae.proj.2271C

Mar. 27, 1931

mF 9967

F.C.

1726	3	K2
1727	4	a0
1728	4	F5-
1729	5	g0
1730	1	K7
1731	1	m0
1732	1	K7
1733	2	g5-
1734	1	K0
1735	4	K0
1736	3	K0
1737	3	F0
1738	1	K0
1739	1	K7
1740	2	F5-
1741	1	m0
1742	1	K5-
1743	1	K	Omit Uncertain on all plates.
1744	2	g5-
1744a	3n.	a2	H.D. 19994
1745	1	F8
1746	1	K0
1747	1	F8	Portion Ech. Hβ and Hγ as bright as in Class K
1748	3	K2
1749	1	K5-
1750	2	K5

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1931phae.proj.2271C

B 409 01 Apr. 27, 1931

1726									Not in CPD
1727									Not in CPD
1728									Not in CPD
1729	-68°	274	4^{h}	45^{m}	47.5^{s}	-68°	$57.'9$	9.6	
1730									Not in CPD
1731									Not in CPD
1732									Not in CPD
1733									Not in CPD
1734									Not in CPD
1735									Not in CPD
1736									Not in CPD
1737									Not in CPD
1738									Not in CPD
1739									Not in CPD
1740									Not in CPD
1741									Not in CPD
1742									Not in CPD
1743									Not in CPD
1744									Not in CPD
1745									Not in CPD
1746									Not in CPD
1747									Not in CPD
1748									Not in CPD
1749									Not in CPD
1750									Not in CPD

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1931phae.proj.2271C

Mar. 27, 1931

MF.9967.

F.C.

1751	1	K0	Smith. Mountain
1752	3	K2	
1753	3	a	
1754	1	K0	Smith. Sept.
1755	3	G0	
1756	5	K0	
1757	1	K5	
1758	4	F5	
1759	2	F8	
1760	4	K0.	
1761	3	F5	
1762	4	G5	
1763	2	K0	
1764	1	K7	
1765	2	K7	
1766	4	K2	
1767	4	G5	
1768	1	K7	
1769	2	K5	
1770	4	K5	
1771	2	K7	
1772	3	K7	
1773	2	G5	
1774	4	G0	
1775	5	K0	

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1931phae.proj.2271C

B 40901

Apr. 27, 1931

1751									not in CPD
1752									not in CPD
1753									not in CPD
1754									not in CPD
1755									not in CPD
1756									not in CPD
1757									not in CPD
1758	-68°	273	4h	45m	17.5s	-68°	37.1'	9.7	
1759									not in CPD
1760	-68	275	4	46	53.0	-68	20.4	9.6	
1761									not in CPD
1762	-67	341	4	42	18.0	-67	26.7	9.5	
1763									not in CPD
1764									not in CPD
1765									not in CPD
1766									not in CPD
1767									not in CPD
1768									not in CPD
1769									not in CPD
1770									not in CPD
1771									not in CPD
1772									not in CPD
1773									not in CPD
1774	-67	344	4	46	16.0	-67	29.8	9.5	
1775	-67	346	4	47	20.5	-67	22.9	9.5	

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1931phae.proj.2271C

Mar. 27, 1931

MF 9967

F.C.

1776	2	M0
1777	5	G5
1778	4	F5
1779	2	K2
1780	1	K0
1781	1	K7
1782	3	F2
1783	2	F8
1784	4	Cont.
1785	2	K5
1786	4	F8
1787	1	K7
1788	3	K0
1789	1	K5
1790	2	G5
1791	3	G5
1792	1	K2
1793	4	G5
1794	1	K7
1795	4	G0
1796	3	F8
1797	4	G0
1798	1	0
1799	4	K2
1800	3	K7

Bm Argo Nanm byd. Cmis Nem

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1931phae.proj.2271C

B40901 Apr. 27, 1931

1776	-67°	347	4h	47m	25.0s	-67°	25.'9	9.9	✓
1777	-67	348	4	47	39.0	-67	27.8	8.9	✓
1778	-67	349	4	48	0.5	-67	22.9	9.1	✓
1779									✓ not in CPD
1780									✓ not in CPD
1781									✓ not in CPD
1782	-67	354	4	49	19.5	-67	34.8	9.4	✓
1783									✓ not in CPD
1784	-67	355	4	50	24.5	-67	52.1	9.5	✓
1785									✓ not in CPD
1786									✓ not in CPD
1787									✓ not in CPD
1788									✓ not in CPD
1789									✓ not in CPD
1790									✓ not in CPD
1791									✓ not in CPD
1792									✓ not in CPD
1793	-68	283	4	51	56.0	-68	28.4	9.7	✓
1794									✓ not in CPD
1795	-68	285	4	53	31.8	-68	3.0	9.4	✓
1796	-68	289	4	54	35.5	-68	12.0	9.6	✓
1797	-67	365	4	55	13.5	-67	57.8	9.6	✓
1798									✓ not in CPD
1799	-67	363	4	54	49.0	-67	46.8	9.6	✓
1800									✓ not in CPD

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1931phae.proj.22710

Mar. 28, 1931

F 9967

F.C.

1801	1	✓	K5⁻
1802	1	✓	K7.
1803	3	✓	F2
1804	3	✓	K2
1805	7	✓	K2
1806	3		Cont. Probably B m A2900
1807	2		Cont. " " " "
1808	5	✓	F5⁻
1808a	2		F8 Sp also A2900
1809	3		Cont.. B m A2900
1810	1	✓	K2
1811	6	✓	G5⁻
1812	3	✓	K0.
1813	1	✓	A5⁻
1814	2	✓	K2⁰
1815	5	✓	F8.
1816	4	-	A3 Nebulous.
1817	4	-	F2
1818	6	✓	F0.
1819	1	✓	K5⁻
1820	3	✓	F0
1821	2	✓	K5⁻
1822	1		K2 Very fl. Rather nebulous. Assumed
1823	4	✓	F8 Hazy.
1824	3	✓	F2
1825	1	✓	F

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1931phae.proj.2271C

B 20825 Apr. 30, 1931

1801									Not in CPD ✓
1802									Not in CPD ✓
			h	m	s				
1803	−67°	359	4	53	29.5	−67°	34.6	9.6	✓
1804	−67	357	4	52	38.5	−67	33.9	9.6	✓
1805	−67	360	4	54	21.0	−67	28.9	9.0	✓
1806	−67	361	4	54	31.5	−67	27.1	9.9	✓
1807	−67	362	4	54	43.5	−67	26.4	9.9	✓
1808	−67	366	4	55	15.0	−67	7.7	9.4	✓
1809	−67	367	4	55	25.5	−67	37.8	9.4	✓
1810									Not in CPD ✓
1811	−67	368	4	55	51.7	−67	29.8	9.2	✓
1812	−67	369	4	56	14.8	−67	29.1	9.9	✓
1813									Not in CPD ✓
1814									Not in CPD ✓
1815	−67	373	4	57	37.5	−67	22.8	9.4	✓
1816	−67	375	4	58	9.0	−67	25.7	9.8	✓
1817	−67	372	4	57	31.0	−67	39.6	9.4	✓
1818	−67	371	4	57	21.5	−67	46.1	9.2	✓
1819									Not in CPD ✓
1820	−68	297	4	57	49.0	−68	12.3	9.6	✓
1821	−68	298	4	59	12.0	−68	27.2	9.7	✓
1822									Not in CPD ✓
1823	−67	371	4	59	19.0	−67	55.6	9.4	✓
1824	−67	378	4	59	53.0	−67	43.4	9.6	✓
1825									Not in CPD ✓

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1931phae.proj.22710

Mar. 28, 1931

DF 9967

F.C.

1826	1	✓ A
1827	2	✓ K0
1828	2	✓ K5
1829	1	✓ M0
1830	4	✓ K2
1831	1	✓ K7
1832	1	✓ K5
1833	1	✓ K5
1834	3	✓ F8
1835	6	✓ G0
1836	2	✓ K7
1837	5	✓ K0
1838	6	✓ A0
1839	2	✓ K0
1840	4	✓ K5
1841	2	✓ K2
1842	1	✓ K7
1843	2	✓ K7
1844	9	✓ K2
1845	2	✓ K0
1846	5	✓ K0
1847	1	✓ K7
1848	4	✓ K0
1849	4	✓ K2
1850	3	✓ G5

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1931phae.proj.2271C

B 20825

Apr. 30, 1931

1826									not in CPD ✓
1827									not in CPD ✓
1828									not in CPD ✓
1829									not in CPD ✓
1830	-67°	379	5h #	1m	28.0s	-67°	16.8'	9.8	✓
1831									not in CPD ✓
1832									not in CPD ✓
1833									not in CPD ✓
1834									not in CPD ✓
1835	-67	384	5	3	36.5	-67	48.1	9.4	✓
1836									not in CPD ✓
1837	-67	387	5	4	21.2	-67	30.1	9.4	✓
1838	-67	388	5	4	32.5	-67	27.8	9.4	✓
1839									not in CPD ✓
1840	-67	389	5	6	19.0	-67	41.3	9.5	✓
1841									not in CPD ✓
1842									not in CPD ✓
1843									not in CPD ✓
1844									not in CPD ✓
1845									not in CPD ✓
1846	-67	393	5	9	6.0	-67	19.8	9.5	✓
1847									not in CPD ✓
1848	-67	397	5	12	46.2	-67	0.5	9.8	✓
1849	-67	394	5	11	58.0	-67	28.3	9.7	✓
1850									not in CPD ✓

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1931phae.proj.22710

Mar. 28, 1931

mF 9967

F.C.

1851	3	Cont.	
1852	5	F8	
1852a	3	B?	marked on B1508
1853	2	K0	
1854	2	K5	
1854a	3	K	" " See a2900
1855	0	K0	
1855a	4	a	" " See a2901
1856	5	F8	
1856a	3	B3	" " See a2903
1857	5	G5	
1857a	3	B	" "
1858	5	K5	
1858a	3	Pec.	" " Hyd. lines.
1859	1	K7	
1859a	3	5	" "
1860	5	F8	
1860a	2	O	" " Neb 5- ,3.8 -6> 31
1861	2	K0	
1862	6	a0	
1863	4	K2	
1864	3	K2	
1864a	2	a2	
1865	1	F5	
1866	5	a0	
1867	2	m0	
1868	3	F8	
1869	1	F	
1870	1	F5	
1871	3	G0	
1872	2	F5	
1873	3	K0	
1874	1	K5	
1875	4	G0	

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1931phae.proj.2271C

B 20825 Apr. 30, 1931

1851	-67°	396	5h	12m	25.8s	-67°	28.'0	9.7	✓
1852	-67	398	5	12	52.0	-67	27.4	9.2	✓
1852a	-67	400							✓
1853									Not in CPD ✓
1854									Not in CPD ✓
1854a									" " ✓
1855									Not in CPD ✓
1855a	-67	405							✓
1856	-66	386	5	13	57.5	-66	50.8	9.5	✓
1856a	-67	404							✓
1857	-66	387	5	14	4.0	-66	41.3	9.5	✓
1857a	-67	406							✓
1858	-66	388	5	14	37.0	-66	36.5	9.8	✓
1858a									Not in C.P.D. ✓
1859									Not in CPD ✓
1859a	-67	403							✓
1860	-66	390	5	16	1.0	-66	41.9	9.4	✓
1860a									Not in C.P.D. ✓
1861									Not in CPD ✓
1862	-67	409	5	15	19.5	-67	24.6	9.5	✓
1863	-67	407	5	14	39.5	-67	36.6	9.6	✓
1864									Not in CPD ✓
1864a									Not in CPD ✓
1865									Not in CPD ✓
1866	-67	411	5	18	2.0	-67	31.1	9.4	✓
1867									Not in CPD ✓
1868									Not in CPD ✓
1869									Not in CPD ✓
1870									Not in CPD ✓
1871									Not in CPD ✓
1872									Not in CPD ✓
1873									Not in CPD ✓
1874									Not in CPD ✓
1875	-67	408	5	14	56.0	-67	49.8	9.6	✓

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1931phae.proj.22710

Mar. 28, 1931

n 7. 9967

7.C.

1876	2	K5	
1877	1	K7°	
1878	1	K0	
1879	4	a7	
1880	3	K2	
1881	3	g0	
1882	3	a2	
1883	2	g5	
1884	1	a	
1885	1	K2	
1886	1	K0	
1887	3	K0	N. of two
1888	2	F8	
1889	2	F5	
1890	3	g0	
1891	1	F0	
1892	1	a2	
1893	3	F8	
1893a	2	F5 g	Bert = 9972
1894	5	g	
1894a	2	g - f.	cluster 44 . Dark lines seem.
1895	2	K0	
1896	4	f2	
1896a	1	a?	Hazy, but dark lines seem. Cluster 43
1897	9	F8	
1898	3	K7	
1899	1	K5	
1900	5	K0	

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1931phae.proj.2271C

B 20825 Apr. 30, 1931

			h	m	s				
1876									Not in CPD ✓
1877									Not in CPD ✓
1878									Not in CPD ✓
1879	-68°	334	5	13	39.0	-68°	7.2	9.6	✓
1880	-68	332	5	12	57.5	-68	9.2	9.7	✓
1881	-68	330	5	12	27.5	-68	12.3	9.7	✓
1882	-68	329	5	12	24.0	-68	0.1	9.7	✓
1883									Not in CPD ✓
1884									Not in CPD ✓
1885									Not in CPD ✓
1886									Not in CPD ✓
1887									Not in CPD ✓
1888									Not in CPD ✓
1889									Not in CPD ✓
1890	-68	316	5	7	29.0	-68	7.6	9.7	✓
1891									Not in CPD ✓
1892									Not in CPD ✓
1893	-68	319	5	8	7.5	-68	25.0	9.7	✓
1894	-68	313	5	5	54.5	-68	25.1	9.4	✓
1895									Not in CPD ✓
1896	-68	310	5	5	27.5	-68	5.0	9.7	✓
1897	-68	308	5	4	13.0	-68	5.0	9.7	✓
1898									Not in CPD ✓
1899									Not in CPD ✓
1900	-68	303	5	1	28.5	-68	10.1	9.6	✓

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1931phae.proj.22710

Mar. 30, 1931

mF 9967

F.C.

1901	3	K5	
1902	4	K0	
1903	2	K7	
1904	5	G5	
1905	2	K2	
1906	3	K7	
1907	2	K0	
1908	2	a.	
1909	1	K0	
1910	2	K5	
1911	b 2 Cont.	F8	~~Hazy, cl.?~~ [Orig. 1911 = 2 stars]
1912	1	G0	
1913	3	G5	
1914	4	K0	
1914a	1	K0	Best on 9972
1915	3	Cont.	
1916	1	M0	
1917	6	K0	
1917a		cont.	Part. B on A plates. marked on B 15008
1918	3	cl.	Dark lines seen.
1918a	4	a	Weak, hazy, cl.
1919	3	K7	
1920	1	K2	
1920a	3	a	Dark hyd. lines on A 2900 9972 best
1921	2	K7	
1921a		B?	Almost cont. on all plates.
1922	1	K0	
1922a		B?	Barely trace of narrow dark lines on A 15032
1923	1	F8	
1923a		P	Were gas rels?
1924	2	K5	
1925	3	K5	

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1931phae.proj.2271C

B 40901 Apr. 28, 1931

			h	m	s				
1901									not in C P D ✓
1902	-68°	302	5	0	44.5	-68°	23.1	9.5	✓
1903	-68	301	5	0	25.5	-68	23.3	9.7	✓
1904	-68	299	~~4~~ 5	59	43.5	-68	25.2	9.5	✓
1905									not in C P D ✓
1906									not in C P D ✓
1907									not in C P D ✓
1908									not in C P D ✓
1909									not in C P D ✓
1910									not in C P D ✓
1911									not in C P D ✓
1912									not in C P D ✓
1913									not in C P D ✓
1914	-68	317	5	7	31.0	-68	38.0	9.6	✓
1915	-68	318	5	7	52.0	-68	41.5	9.7	✓
1916									not in C P D ✓
1917	-68	320	5	8	48.0	-68	53.4	9.6	✓
1917a	-68	322	5	9	16.0	-68	57.9	neb.	✓
1918	-69	331	5	7	50.5	-69	8.0	neb.	✓
1918a	-68	323	5	9	21.0	-68	55.0	neb.	✓
1919									not in C P D ✓
1920									not in C P D ✓
1920a	-69	332	5	10	0.0	-69	0.1	neb.	✓
1921									not in C P D ✓
1921a									neb — C P D ✓
1922									not in C P D ✓
1922a									neb — C P D ✓
1923									not in C P D ✓
1923a									neb — C P D ✓
1924									not in C P D ✓
1925	-68	327	5	11	6.0	-68	23.7	9.6	✓

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1931phae.proj.22710

Mar. 30, 1931

mF 9967

F.C.

1926	3	g_5
1927	1	K7
1928	2	K2
1929	6	Cont.
1930	3	a. Very hazy. Cl.
1931	1	m0
1932	1	K5
1933	2	m0
1934	1	K0
1935	5	F8
1936	4	g0
1937	2	K2
1938	3	K7
1939	5	g_5
1940	2	K0
1941	1	g_5
1942	1	m0 omit
1943	3	K0
1944	2	F2
1945	4	F0
1946	4	F2
1947	5	F0
1948	1	g_5
1949	4	a7
1950	4	a7

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1931phae.proj.22710

B 40901 Apr. 28, 1931

1926									Not in CPD ✓
1927									Not in CPD ✓
1928									Not in CPD ✓
1929	-68°	326	5h	11m	0.0s	-68°	55.3′	9.4	✓
1930	-68	328	5	12	17.5	-68	52.3	9.7	✓
1931									Not in CPD ✓
1932									Not in CPD ✓
1933									Not in CPD ✓
1934									Not in CPD ✓
1935	-68	333	5	13	18.5	-68	34.6	9.4	✓
1936									Not in CPD ✓
1937									Not in CPD ✓
1938									Not in CPD ✓
1939	-68	336	5	15	14.0	-68	21.0	9.5	✓
1940									Not in CPD ✓
1941									Not in CPD ✓
1942									Not in CPD ✓
1943	-68	339	5	16	35.0	-68	23.3	9.7	✓
1944									Not in CPD ✓
1945	-68	343	5	17	25.5	-68	17.7	9.5	✓
1946	-68	346	5	18	7.0	-68	29.3	9.6	✓
1947	-68	342	5	17	18.0	-68	45.3	9.3	✓
1948									Not in CPD ✓
1949	-68	349	5	18	33.5	-68	39.1	9.5	✓
1950	-68	351	5	18	44.0	-68	33.1	9.4	✓

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1931phae.proj.2271C

Mar. 30, 1931

MF 9967

7. C.

1951	2	F8
1952	5	F0
1953	2	G5
1954	1	F5
1955	5	A7
1956	3	F5
1957	1	K7
1958	2	G5
1959	3	K2
1960	3	G0
1961	1	K0
1962	3	M0
1963	2	M1
1964	3	G5
1965	5	F8
1966	1	M0
1967	3	G0
1968	1	F8
1969	3	K0
1970	1	K5
1971	1	K7
1972	1	F5
1973	2	G5
1974	3	G0
1975	3	F5

omit

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1931phae.proj.2271C

B 40901 Apr. 28, 1931

1951									not in CPD ✓
1952	-68°	352	5h	18m	56.0s	-68°	35.5′	9.4	✓
1953									not in CPD ✓
1954									not in CPD ✓
1955	-68	354	5	19	29.0	-68	41.6	9.4	✓
1956									not in CPD ✓
1957									not in CPD ✓
1958									not in CPD ✓
1959									not in CPD ✓
1960									not in CPD ✓
1961									not in CPD ✓
1962	-67	416	5	19	38.8	-67	59.1	9.7	✓
1963									not in CPD ✓
1964									not in CPD ✓
1965	-68	358	5	20	29.0	-68	5.8	9.5	✓
1966									not in CPD ✓
1967	-68	359	5	20	37.0	-68	9.7	9.7	✓
1968									not in CPD ✓
1969									not in CPD ✓
1970									not in CPD ✓
1971									not in CPD ✓
1972									not in CPD ✓
1973									not in CPD ✓
1974	-67	417	5	19	41.0	-67	31.7	10.0	✓
1975	-67	415	5	19	17.0	-67	26.9	10.0	✓

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1931phae.proj.2271C

Mar. 30, 1931

mF=9967

F.c.

1976	5	A7	
1977	2	K5	
1978	1	K2	
1979	3	F0	
1980	3	F8	
1981	1	K2	
1982	2	K5	
1983	3	F2	
1983a	2	O	cont. of. abs., lines A 15031, 15023, Perhaps Oc marked in B&O 08
1984	1	G5	
1984a	1	P	"
1985	2	cont.	
1985a	1	O?	lines on A 15023, 15031 "
1986	2	M0	
1986a	3	K5	"
1987	2	K5	
1987a	3	Pd	5007, 4957 abs. lines on plates "
1988	1	F8	
1988a	2	P	"
1989	3	K2	
1989a	1	Pa	"
1990	1	K2	
1990a	3	cont.	"
1991	1	G0	
1992	5	A5	
1992a	1	Oa	one band, brighter toward cont. spectrum lines on A 15031, 032, 023
1993	1	K5	
1994	2	K7	
1994a	2	P	chief mb. lines well marked on plates.
1995	1	K0	
1995a	1	P	lines best on A 15031
1996	4	K0	
1997	6	F5	
1998	1	M0	
1999	1	G5	
2000	1	K	omit

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1931phae.proj.2271C

B 40901 April 28, 1931

1976	-67°	423	5h	20m	42.0s	-67°	37.7'	9.4	✓
1977									not in C P D ✓
1978									not in C P D ✓
1979	-67	425	5	22	36.0	-67	29.0	10.0	✓
1980	-67	428	5	23	6.0	-67	54.8	9.7	✓
1981									not in C P D ✓
1982									not in C P D ✓
1983									not in C P D ✓
1983a									not in C P D ✓
1984									not in C P D ✓
1984a									not in C P D ✓
1985									not in C P D ✓
1985a									not in C P D ✓
1986									not in C P D ✓
1986a									not in C P D ✓
1987									not in C P D ✓
1987a									not in C P D ✓
1988									not in C P D ✓
1988a									not in C P D ✓
1989									not in C P D ✓
1989a									not in C P D ✓
1990									not in C P D ✓
1990a									not in C P D ✓
1991									not in C P D ✓
1992	-68	368	5	25	20.0	-68	41.1	9.6	✓
1993									not in C P D ✓
1994									not in C P D ✓
1994a									not in C P D ✓
1995									not in C P D ✓
1996	-68	370	5	25	53.5	-68	14.4	9.6	✓
1997	-68	371	5	27	2.5	-68	12.0	9.6	✓
1998									not in C P D ✓
1999									not in C P D ✓
2000									not in C P D ✓

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1931phae.proj.2271C

Mar. 31, 1931

H 9967

T.C.

2001	1	G_5	
2002	4	K_5	
2003	2	K_0	
2004	6	K_0	
2005	3	Cont	
2006	4	G_5	
2007	2	F_5	= 9972.283
2008	8	G_0	
2009	4	K_5	
2010	4	K_2	
2011	2	K_5	
2012	1	K_0	
2013	1	K_2	
2014	4	G_5	
2015	6	F_5	
2016	1	F_2	omit
2017	2	K_7	
2018	2	M_0	
2019	7	K_0	
2020	1	M_0	
2021	4	K_5	
2022	1	K_7	
2023	1	G_5	
2024	3	F_8	
2025	2	G_0	

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1931phae.proj.2271C

B 5720 Apr. 29, 1931

2001									not in CPD ✓
2002	-68°	379	5	29	22.0	-68°	8.8	9.6	✓
2003									not in CPD ✓
2004	-67	446	5	28	48.5	-67	58.1	9.2	
2005	-67	444	5	28	40.5	-67	46.0	9.7	✓
2006	-67	443	5	28	34.5	-67	30.1	9.8	✓
2007									not in CPD ✓
2008	-67	449	5	30	20.0	-67	49.8	9.0	✓
2009	-68	382	5	30	44.0	-68	1.8	9.6	✓
2010	-68	383	5	30	59.5	-68	11.9	9.5	✓
2011									not in CPD ✓
2012									not in CPD ✓
2013									not in CPD ✓
2014	-68	376	5	27	44.0	-68	36.0	9.6	✓
2015	-68	384	5	31	37.5	-68	11.9	9.4	✓
2016									not in CPD ✓
2017									not in CPD ✓
2018									not in CPD ✓
2019	-67	405	5	32	21.5	-67	53.9	9.4	✓
2020									not in CPD ✓
2021									not in CPD ✓
2022									not in CPD ✓
2023									not in CPD ✓
2024	-68°	390	5	35	0.0	-68	18.0	9.7	✓
2025									not in CPD ✓

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1931phae.proj.2271C

Mar. 31, 1931

nF 9967

F.C.

2026	5	g_5
2027	1	K_2
2028	3	Cont
2029	3	g_5
2030	4	m_0
2031	3	a_2
2032	3	F_2
2033	2	F_5
2034	3	g_5
2035	3	K_7
2036	6	K_0
2037	4	K_0
2038	3	g_0
2039	4	g_0
2040	4	g_0
2041	3	m_0
2042	5	F_8
2043	2	K_5
2044	6	F_5
2045	4	g_0
2046	1	F_5
2047	3	F_8
2048	5	K_0
2049	4	g_0
2050	2	g_5

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1931phae.proj.2271C

B5720 Apr. 29, 1931

2026	-68°	387	5m	33m	55.0s	-68°	39.2	9.6	✓
2027									not in cPD ✓
2028									not in cPD ✓
2029									not in cPD ✓
2030	-68	393	5	35	38.5	-68	57.0	9.7	✓
2031									not in cPD ✓
2032									not in cPD ✓
2033									not in cPD ✓
2034	-68	394	5	35	46.0	-68	32.5	10.0	✓
2035									not in cPD ✓
2036	-68	395	5	36	10.5	-68	38.3	9.5	✓
2037	-68	396	5	36	22.5	-68	22.1	9.9	✓
2038	-69	405	5	36	35.0	-69	7.1	9.7	✓
2039	-69	412	5	36	58.0	-69	0.0	9.5	✓
2040	-68	397	5	37	19.4	-68	58.3	9.6	✓
2041	-68	401	5	37	41.2	-68	56.1	9.6	✓
2042	-68	400	5	37	35.8	-68	50.9	9.3	✓
2043	-68	399	5	37	31.0	-68	40.8	10.2	✓
2044	-68	403	5	38	9.5	-68	47.8	9.2	✓
2045	-68	408	5	38	48.2	-68	49.6	9.7	✓
2046	-68	409	5	39	6.5	-68	54.3	10.1	✓
2047	-68	410	5	39	21.7	-68	57.1	9.6	✓
2048	-69	408	5	36	51.0	-69	33.5	9.5	✓
2049	-69	458	5	39	40.0	-69	20.8	9.6	✓
2050	-69	469	5	40	0.5	-69	17.2	10.2	✓

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1931phae.proj.2271C

Mar. 31, 1931

Cm ∓ 9967 . .

F. C.

2051	3	K0
2052	1	M0
2053	4	G0
2054	5	K0
2055	4	F5
2056	4	G5
2057	6	F5
2058	2	F2
2059	2	K7
2060	4	G0
2061	4	A3
2062	2	G0
2063	5	K0
2064	4	K5
2065	2	F8
2066	5	K0
2067	2	G0
2068	2	M0
2069	3	Cl.
2070	3	M2
2070a	1	F5
2071	2	K2
2072	1	G0
2073	5	M0
2074	1	K7
2075	1	G5

dark lines seen.

H.E.C. 2109

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1931phae.proj.22710

B 5720 Apr. 29, 1931

2051	-69°	472	5h	40m	20.5s	-69°	15.'2	10.0	✓
2052									not in CPD ✓
2053	-68	414	5	40	49.5	-68	48.1	9.4	✓
2054	-69	487	5	41	33.5	-69	0.1	9.4	✓
2055	-68	417	5	41	32.2	-68	53.0	9.6	✓
2056	-68	405	5	38	12.5	-68	30.0	9.7	✓
2057	-68	407	5	38	44.8	-68	30.5	9.8	✓
2058	-68	402	5	38	8.5	-68	20.8	10.2	✓
2059	-68	398	5	37	24.0	-68	12.1	10.0	✓
2060	-68	404	5	38	11.4	-68	3.0	9.7	✓
2061	-68	411	5	40	9.9	-68	0.1	9.7	✓
2062	-68	412	5	40	37.5	-68	32.2	10.2	✓
2063	-68	413	5	40	48.3	-68	29.1	9.8	✓
2064	-68	415	5	41	6.7	-68	18.3	9.9	✓
2065	-68	416	5	41	31.5	-68	26.6	10.1	✓
2066	-68	424	5	43	20.0	-68	28.0	9.6	✓
2067	-68	425	5	43	29.5	-68	36.7	10.2	✓
2068	-68	427	5	43	30.5	-68	26.7	10.2	✓
2069									not in CPD ✓
2070	-68	430	5	44	7.0	-68	31.0	10.1	✓
2071	-68	422	5	42	57.5	-68	44.6	10.1	✓
2072	-68	421	5	42	53.0	-68	45.3	10.1	✓
2073	-68	419	5	42	18.3	-68	56.1	9.9	✓
2074									not in CPD ✓
2075									not in CPD ✓

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1931phae.proj.2271C

Mar. 31, 1931

nF 9967

F.C.

2076	4	Go
2077	3	Cont.
2078	2	F8
2079	2	Mo
2080	3	Go
2081	2	Go
2082	3	Cont.
2083	1	A5
2084	4	Go
2085	4	F5
2086	4	K0
2087	6	F5
2088	1	A5
2089	1	F5
2090	3	A0
8091	1	K7
2092	1	F8
2093	1	G5
2094	4	K7
2095	2	F8
2096	1	K7
2097	3	Go
2098	3	F5
2099	1	Go
2100	1	F5

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1931phae.proj.2271C

B 5720

Apr. 29, 1931

2076	-69°	~~485~~ 493	5	41	~~21.5~~ 48.0	-69	~~18.0~~ 14.1	~~70.0~~ 9.7	
2077	-69	~~493~~ 498	5	~~41~~ 42	~~48.0~~ 12.5	-69	~~14.1~~ 8.3	9.8	
2078	-69	501	5	42	27.5	-69	22.8	10.1	✓
2079	~~-69~~ -69	~~486~~ 494	~~5~~ 5	~~41~~ 41	~~26.0~~ 51.0	~~-69~~ -69	~~40.1~~ 32.7	~~10.1~~ 10.1	~~not in cPD~~ ✓
2080	-69	~~486~~ 497	5	~~41~~ 42	~~26.0~~ 11.5	-69	40.1	10.1	~~not in cPD~~ ✓
2081	-69	492	5	41	46.5	-69	46.6	10.1	~~not in cPD~~ ✓
2082	-69	503	5	42	36.5	-69	57.3	9.7	✓
2083									not in cPD ✓
2084	-69	~~498~~ 499	5	~~41~~ 42	~~37.0~~ 23.8	-69	~~36.9~~ 37.3	~~9.9~~ 9.5	
2085	-69	515	5	43	53.0	-69	27.1	9.8	✓
2086	-69	516	5	44	21.5	-69	17.8	10.0	✓
2087	-69	517	5	45	5.5	-69	32.0	9.2	✓
2088									not in cPD ✓
2089									not in cPD ✓
2090	-69	518	5	45	21.5	-69	17.4	10.1	✓
2091									not in cPD ✓
2092									not in cPD ✓
2093									not in cPD ✓
2094	-69	519	5	46	~~7.5~~ 6.0	-69	~~2.5~~ 9.6	10.0	
2095									not in cPD ✓
2096									not in cPD ✓
2097	-69	522	5	47	35.5	-69	30.0	10.0	✓
2098	-69	521	5	46	51.5	-69	35.3	10.2	✓
2099									not in cPD ✓
2100									not in cPD ✓

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1931phae.proj.2271C

April 6, 1931

NF 9967

F.C.

2101	5	M2	
2102	2	K0	
2103	2	A	Smith Uncertain
2104	2	G0	
2105	3	F5	
2106	3	K2	
2107	1	F8	
2108	2	Cont.	
2108a	2	Cont.	s/p. very hazy.
2109	4	K0	
2110	1	K2	
2111	2	K2	
2112	7	K0	
2113	1	G5	
2114	4	G5	
2115	1	F8	
2116	1	K7	
2117	2	F8	
2118	2	A	d.? Image large and hazy on check plate
2119	1	F5	
2120	3.	K0	
2121	5	K0	
2122	1	G5	
2123	3	M0	
2124	2	G5	
2125	4	G0	

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1931phae.proj.2271C

B 24144 Apr. 30, 1931

			h	m	s		'		
2101	-69°	524	5	49	7.5	-69°	47.0	9.4	✓
2102	-70	448	5	48	8.0	-70	13.5	10.2	~~Not in CPD~~
2103									Not in CPD ✓
2104									Not in CPD ✓
2105	-70	450	5	49	27.0	-70	10.0	10.0	✓
2106	-70	453	5	50	4.0	-70	14.9	10.0	✓
2107									Not in CPD ✓
2108	-70	455	5	50	20.0	-70	4.5	10.2	✓
2108a	-70	454	5	50	7.0	-70	6.0	10.2	✓
2109	-69	527	5	50	11.5	-69	53.9	9.9	✓
2110									Not in CPD ✓
2111									Not in CPD ✓
2112	-69	530	5	51	6.5	-69	42.9	9.0	✓
2113									Not in CPD ✓
2114	-69	531	5	51	16.0	-69	36.1	9.9	✓
2115									Not in CPD ✓
2116									Not in CPD ✓
2117									Not in CPD ✓
2118									Not in CPD ✓
2119									Not in CPD ✓
2120	-69	533	5	51	52.5	-69	12.7	10.2	✓
2121	-69	532	5	51	23.0	-69	16.1	9.6	✓
2122									Not in CPD ✓
2123	-69	528	5	50	23.0	-69	20.3	10.0	✓
2124									Not in CPD ✓
2125	-69	525	5	49	37.5	-69	15.4	10.0	✓

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1931phae.proj.2271C

April 6, 1931

nF 9967

F.C.

2126	3	G_5^-
2127	2	G_0
2128	2	K_2
2129	3	G_0
2130	2	G_0
2131	1	F_0
2132	3	G_5
2133	5	B.
2134	3	K_0
2135	2	K_2
2136	3	G_5
2137	1	G_5^-
2138	1	K_2
2139	1	K_7
2140	2	G_0
2141	6	F_5^-
2142	4	F_2
2143	1	F_5^-
2144	2	G_0
2145	1	G_0
2146	1	K_0
2147	2	F_8
2148	2	G_0
2149	6	F_8
2150	2	A_2

Cluster or neb. See chart plate.

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1931phae.proj.2271C

B 7144 Apr. 30, 1931

2126	-69°	526	5h	49m	37.5s	-69°	30.5′	10.0	✓
2127									Not in CPD ✓
2128									Not in CPD ✓
2129	-69	523	5	48	36.5	-69	24.0	10.0	✓
2130									Not in CPD ✓
2131									Not in CPD ✓
2132									Not in CPD ✓
2133	-69	520	5	46	7.8	-69	2.5	9.4	✓
2134	-68	435	5	46	20.0	-68	53.6	10.1	✓
2135									Not in CPD ✓
2136									Not in CPD ✓
2137									Not in CPD ✓
2138									Not in CPD ✓
2139									Not in CPD ✓
2140									Not in CPD ✓
2141	-68	439	5	47	44.0	-68	41.3	9.6	✓
2142	-68	438	5	47	23.0	-68	31.9	10.0	✓
2143									Not in CPD ✓
2144									Not in CPD ✓
2145									Not in CPD ✓
2146									Not in CPD ✓
2147									Not in CPD ✓
2148									Not in CPD ✓
2149	-68	441	5	49	41.0	-68	33.6	9.4	✓
2150									Not in CPD ✓

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1931phae.proj.2271C

Apr. 6, 1931

nF 9967

F.C.

2151	1	K2	
2152	5-	G0	
2153	1	K5-	
2154	2	A0	
2155	2	K7	
2156	5-	G0	
2157	2	F8	
2158	5-	K0	
2159	4	F0	
2160	1	K7	
2161	5-	G0	
2162	3	F5-	
2163	3	Cl.	dark lines seen.
2164	1	F	
2165	1	K5-	
2166	3	G0	
2167	2	G0	
2168	1	F8	
2169	1	F5-	
2170	1	G5-	
2171	1	G0	
2172	3	F5-	
2173	2	K0	
2174	4	Cl.	dark hydrogen lines seen
2175	1	F5-	

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1931phae.proj.22716

B 24144 Apr. 30, 1931

2151									Not in CPD ✓
2152	-68°	443	5h	51m	48.0s	-68°	41.7'	9.5	✓
2153									Not in CPD ✓
2154									Not in CPD ✓
2155									Not in CPD ✓
2156	-69	539	5	53	55.5	-69	9.8	9.9	✓
2157	-69	540	5	54	3.5	-69	7.0	9.2	✓
2158	-69	542	5	54	32.0	-69	2.4	9.7	✓
2159	-69	545	5	55	8.0	-69	7.0	9.9	✓
2160									Not in CPD ✓
2161	-69	541	5	54	12.0	-69	23.4	9.4	✓
2162	-69	538	5	53	53.5	-69	29.3	10.0	✓
2163									Not in CPD ✓
2164									Not in CPD ✓
2165									Not in CPD ✓
2166	-69	548	5	56	52.5	-69	5.0	10.0	✓
2167									Not in CPD ✓
2168									Not in CPD ✓
2169									Not in CPD ✓
2170									Not in CPD ✓
2171									Not in CPD ✓
2172	-69	550	5	58	00.5	-69	19.0	9.9	✓
2123									Not in CPD ✓
2174	-69	551	5	58	32.5	-69	12.0	neb.	✓
2175									Not in CPD ✓

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1931phae.proj.2271C

Apr. 6, 1931

nF 9967.

F.C.

2176	1	F8
2177	1	F0
2178	3	G0
2179	2	F8
2180	1	G0
2181	3	K7
2182	2	G0
2183	1	G5
2184	5	G0
2185	2	K2
2186	2	F2
2187	2	G0
2188	1	F5
2189	2	F8
2190	3	F0
2191	3	F5
2192	5	F0
2193	3	K7
2194	4	M1
2195	3	F2
2196	1	A5
2197	2	F5
2198	2	K0
2199	8	F8
2200	3	K2

cmb. p. 220

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1931phae.proj.2271c

B 24144 Apr. 30, 1931

2176									not in CPD ✓
2177									not in CPD ✓
2178	-69	555	6	0	3.2	-69	58.2	10.2	✓
2179									not in CPD ✓
2180									not in CPD ✓
2181	-69	556	6	1	2.5	-69	51.5	10.0	✓
2182									not in CPD ✓
2183									not in CPD ✓
2184	-70	478	6	2	17.0	-70	16.0	9.6	✓
85 2158									not in CPD ✓
86 2159									not in CPD ✓
87 2160									not in CPD ✓
88 2161									not in CPD ✓
89 2162									not in CPD ✓
90 2163	-69	559	6	2	15.0	-69	30.1	10.0	✓
91 2164	-69	561	6	2	58.0	-69	30.8	9.5	✓
92 2165	-69	562	6	3	49.5	-69	39.6	9.4	✓
93 2166									not in CPD ✓
94 2167	-69	565	6	4	53.5	-69	41.8	9.5	✓
95 2168	-69	564	6	4	43.5	-69	37.2	10.0	✓
96 2169	-69	563	6	3	53.5	-69	25.2	8.9	✓
97 2170									not in CPD ✓
98 2171									not in CPD ✓
99 2172	-69	571	6	6	56.5	-69	26.5	8.6	✓
2200	-69	567	6	5	54.0	-69	30.7	10.0	✓

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1931phae.proj.2271C

July 2, 1931

Nebulous regions in 9967 classified in general from A plates especially A 15031 near 30 Dor.
For 2201 - 2213 see p. 220

2214 In Lorpe neb	2	Oa	4688 bandy, cont, Hβ well seen
2215 In Lorpe neb	5	Oa	4688 bandy, Hβ br. Hγ bandy, faintly cont Hγ neb.
2216 " "	1	Oa	4688 bandy cont seen but ft.
2217 " "	3	Oa	4688 faintly bandy, cont. well seen, in nebulosity
2218	5	B	
2219 In Lorpe, partly in	3	B0	See A 4112, A 15022 where bright lines are seen as in Oa
2220	3	B	
2221 " "	1	Oa	megft. Cont not seen. Dopft.
2222	1	Oa	4688 wide. Cont n.s. ft.

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1931phae.proj.22710

2214								Not in C.P.D. ✓
2215	~~-~~69°462	5	39	44.5	-69	5.8	9.5	✓
2216								Not in C.P.D. ✓
2217	-69°464	5	39	49.6	-69	9.8	9.9	✓
2218	-69°446	5	39	2.2	-69	10.2	9.5	✓
2219	-69°442	5	38	40.0	-69	9.1	9.9	✓
2220	-68°406	5	38	36.5	-68	59.1	9.8	✓
2221								Not in C.P.D. ✓
2222								Not in C.P.D. ✓

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1931phae.proj.2271C

In F9867 July 2, 1931

2223	3	Oa	H688 very wide and not a great contrast to Cont. sp.
2224		Oe	Double star. Bands not very wide. Can not determine which component has the lines
2225	4	B?	
2226	1	O	Wide band Cont. sp. not well seen
			See also A 4112 where it is more distinct
2227	1	M?	Bright streaks seen which like bands of title. wide
2228	2	K5	
2229	6	B	
2230	3	Pg[illegible]	Hβ, γ, δ br. N.P. of 2 class, the other sp. shows no lines, perhaps B
2231	1	Oa	Wide H688, and strong. Almost no cont. sp.
2232	3	PCyl	Double? Hγ, Hδ br. On A 4388, appears blue double

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1931phae.proj.2271C

2223	-69° 429	5	37	49.5	-69	15.7	9.9	✓
2224	-69° 409	5	36	53.5	-69	16.0	9.4	✓
2225	-69° 406	5	36	48.5	-69	14.0	9.8	✓
2226								✓ Not in C.P.D.
2227								✓ Not in C.P.D.
2228								✓ Not in C.P.D.
2229	-69° 414	5	37	3.5	-69	28.3	9.4	✓
2230	-69° 420	5	37	24.7	-69	27.1	9.8	✓
2231								✓ Not in C.P.D.
2232	-69° 428 (7)	5	37	44.0 ~~48.5~~	-69	33.9 ~~34.0~~	9.5 (8)	✓

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1931phae.proj.2271C

July 2, 1931

Mt Hq 96.

2233	5−	B	
2234	1	P	5007, 4959 Sem. Ch. fl. Shows a neb. envelope 3 stars.
2235	1	O	Wide 4688, almost no cont. sp.
2236		B?	
2237		K5	
2238		B	
2239		B	
2240		PB	Gas neb. over a large region. Bright line Sem between Mt H plates.
2241		O	Brightest stars of a group
2242	1	O	S. p. of 2 nearly equal stars
2243		Pep	Stars brightest hyd.
2244		B	

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1931phae.proj.22710

2233	-69° 428	5	37	48.5	-69	34.0	9.5	
2234								Not in C.P.D.
2235								Not in C.P.D.
2236	-69° 459	5	39	41.5	-69	27.0	9.7	
2237	-69° 465	5	39	50.0	-69	30.9	10.0	
2238	-69° 466	5	39	52.7	-69	33.6	Neb	
2239	-69° 468	5	40	0.5	-69	33.1	9.3	
2240	~~-69° 466~~	~~5~~	~~39~~	~~52.7~~	~~-69~~	~~33.6~~	~~neb.~~	Not in CPD
2241								Not in C.P.D.
2242								Not in C.P.D.
2243	-69° 478	5	41	12.0	-69	26.2	10.1	
2244	-69° 473	5	40	29.5	-69	30.8	9.5	

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1931phae.proj.22710

July 2, 1931

	M	f	9h07	
2245		P		
46		P		{Two bright bands near each other
47		P		
48		P		
49		Gr		See also 9967
50		P		
51		P		
52		P		
53		P		
54	3	O		-69° 479.
55	2	O		a Aql 2, a 15029 - 30
2256	10	P		30 Draconis 5007, 4959, Hβ, Hγ, Hδ, Hε lines.

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1991phae.proj.2271C

2245								Not in C.P.D. ✓
46	-69°475	5	40	49.2	-69	42.2	9.9	✓
47								✓
48								Not in C.P.D. ✓
49	-69° 481	5	41	17.2	-69	43.5	9.5	✓
50								Not in C.P.D. ✓
51								not in C.P.D ✓
52								not in C.P.D. ✓
53								Not in C.P.D. ✓
54	-69° 479	5	41	12.5	-69	27.5	10.1	✓
55								Not in CPD ✓
56	-69° 452	5	39	35.6	-69	9.8	neb	✓

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1931phae.proj.2271C

April 9, 1931

F 9972

F.C.

1	3		G5-	
2	3		K0	
3	2		K2	
4	2		K7	
4a	6	Br.		
5	7	Br.		
6	6	Br.		
7	4		G0	
8	1		K0	From 10064, see card
9	1		M0	
10	1		K7	
10a	3	B	A7	See also a 2900
11	1			
12	1		K5	Omit Uncertain. Looks like From 10064
13	7		G0	
14	1		M0	
15	1		K5-	Omit. Too uncertain
16	1		K7	
17	1		K7	
18	2	✓	M0	
19	3		K0	
20	1		K2	
21	1		K5-	
22	3		G0	
22a	1		K5	
23	4		F2	
24	1		K7	
25	4		F5-	

K0
F5
G0

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1931phot.proj.22710

B 26816 May 12, 1931

1	-67°	339	4h	40m	10.5s	-67°	15.0'	9.8	✓
2									Not in CPD ✓
3									Not in CPD ✓
4									Not in CPD ✓
4a	-67	340	4	41	24.0	-67	8.0	8.8	✓
5	-66	317	4	42	43.0	-66	45.7	8.6	✓
6	-66	319	4	43	18.2	-66	58.3	8.4	✓
7	-67	343	4	43	32.0	-67	1.8	9.0	✓
8									Not in CPD ✓
9									Not in CPD ✓
10									Not in CPD ✓
10a	-67	345	4	46	59.0	-67	20.0	9.8	✓
11									Not in CPD ✓
12									Not in CPD
13	-66	321	4	45	37.5	-66	44.7	8.6	✓
14									Not in CPD ✓
15									Not in CPD
16									Not in CPD ✓
17									Not in CPD ✓
18	-66	323	4	46	43.0	-66	16.4	9.9	✓
19	-66	324	4	46	54.0	-66	26.5	9.7	✓
20									Not in CPD ✓
21									Not in CPD ✓
22	-66	327	4	47	31.5	-66	23.3	9.6	✓
22a									Not in CPD
23	-66	326	4	47	5.5	-66	20.1	8.9	✓
24									Not in CPD ✓
25	-66	328	4	48	4.0	-66	41.3	8.9	✓

K0 F5 &D

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1931phae.proj.2271C

April 9, 1931

MF 9972

F.C.

26	5	K0	
27	3	G0	Southern of 2 class
28	2	K5	
29	2	M1	
30	1	K0	
31	1	K5	
32	1	K7	
33	2	K0	
34	3	F8	
35	3	F5	
35a	1	K5	
36	3	G5	
37	5	K0	
38	1	K0	
39	3	K7	
40	4	G5	
41	2	G5	
42	4	K2	
43	2	K0	
44	3	K5	
45	3	A0	See 10064
46	1	K7	
47	3	K0	
48	1	K2	
48a	8	Br.	K5
49	2	K7	
50	2	F0	

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1931phae.proj.22716

B 26816 May 12, 1931

26	−66°	329	4h	48m	52.0s	−66°	46.2′	9.0	✓
27	−67	350	4	48	50.5	−67	0.6	9.8	✓
28	−67	351	4	48	55.5	−67	7.1	9.8	✓
29	−67	353	4	49	15.0	−67	8.6	9.8	✓
30									Not in CPD ✓
31									Not in CPD ✓
32									Not in CPD ✓
33									Not in CPD ✓
34									Not in CPD ✓
35	−66	331	4	49	53.5	−66	35.1	9.5	✓
35a									Not in CPD
36									Not in CPD ✓
37	−66	330	4	49	19.0	−66	10.5	9.8	✓
38									Not in CPD ✓
39	−66	332	4	50	25.0	−66	8.3	9.6	✓
40	−66	333	4	50	45.0	−66	10.9	9.4	✓
41									Not in CPD ✓
42	−66	334	4	52	4.5	−66	26.5	9.9	✓
43									Not in CPD ✓
44									Not in CPD ✓
45	−66	336	4	52	49.5	−66	2.9	9.9	✓
46									Not in CPD ✓
47	−66	337	4	53	18.5	−66	37.9	9.9	✓
48									Not in CPD ✓
48a	−66	338	4	53	19.0	−66	52.5	8.0	Not in CPD ✓
49									Not in CPD ✓
50									

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1931phae.proj.22710

April 9, 1931

MF 9972

F.C.

51	4	K0	
52	1	K5	
53	2	m0	
54	1	K1	
55	1	K7	
56	4	K0	
57	3	K5	
58	2	K5	
59	1	K2	omit
60	2	G5	
61	1	K0	
62	2	K2	
63	1	K5	
64	4	K2	
65	1	K7	
66	2	K0	
67	2	F8	
67a	2	F5?	Faint lgd. + extra lines near Cluster.
68	5	K0	
69	2	? K0	omit. Another sp. at N. confuses.
70	5	A0	
71	3	F8	
72	2	K2	
73	7	F5	
74	2	K7	
75	3	F2	

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1931phae.proj.22710

B 2681/6

May 12, 1931

51	-66	341	4h 5	~~55~~ 56	17h 9.0	-66°	26.9'	9.6	
52									Not in CPD ✓
53									Not in CPD ✓
54									Not in CPD ✓
55									Not in CPD ✓
56	-65	395	4	56	45.5	-65	41.3	9.5	✓
57	-65	397	4	57	21.0	-65	44.0	9.9	✓
58									Not in CPD
59									Not in CPD
60									Not in CPD ✓
61									Not in CPD ✓
62									Not in CPD ✓
63									Not in CPD ✓
64	-66	348	4 5	57	38.5	-66	19.8	9.8	✓
65									Not in CPD ✓
66									Not in CPD ✓
67									Not in CPD ✓
67a									Not in CPD
68	-65	398	4	58	42.7	-65	51.0	9.2	✓
69	-65	399	4	58	59.0	-65	53.0	10.0	
70	-65	405	4	59	46.0	-65	32.1	9.1	✓
71	-65	406	5	0	6.3	-65	29.9	9.4	✓
72	-65	407	5	0	39.0	-65	39.8	9.7	✓
73	-65	409	5	0	46.0	-65	43.9	8.7	✓
74	-65	411	5	1	2.0	-65	35.4	9.7	✓
75	-65	414	5	1	30.3	-65	45.4	9.3	✓

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1931phae.proj.22710

April 9, 1931

Grf 9972

F.C.

76	2	K0	F5 on 10064, 9967. Burnerab abroad on 9972
77	3	Cont	Long violet end. On A 2918, B
78	3	A5	
79	4	K0	
80	4	F2	
81	3	Cont.	
82	2	Cont.	Cont A 2918, B. 82. Torf-m A plates
83	2	K5	Double star ~~Quick~~ Both probably same
84	2	Cont	Torf.-m A plates.
85	3	K0	
86	4	G5 K0	
87	5	G0	10864
87a	1	F0	very hazy looking on A chart. Burnham ~~Appl~~
88	1	K7	
89	3	K0	
90	5	F5	
91	4	G5	
92	2	K0	
93	1	K5	
94	6	F2	
95	7	Br.	
95a	1	G	violet end hazy on 95. G band and H+K on Burnham 10264 ~~9972~~ G5
96	1	K7	
97	3	K0	
98	4	A.	Continuous spectrum very strong.
99	3	G2	
100	3	Cont	On A 2918 Oes. 4685 very strong.

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1931phae.proj.22710

B 26816 May 12, 1931

			h	m	s		'			
76	-65°	418	5	1	52.5	-65°	36.9	9.8		✓
77	-65	404	4	59	42.5	-65	56.7	9.5		✓
78	-66	355	5	0	11.5	-66	1.2	9.8		✓
79	-66	353	5	0	10.5	-66	11.7	9.3		✓
80	-66	358	5	0	40.3	-66	1.4	9.3		✓
81	-65	410	5	0	51.0	-65	59.4	9.7		✓
82	-66	359	5	0	43.5	-66	6.8	10.0		✓
83	-66	360	5	0	57.0	-66	6.4	10.0		✓
84	-66	361	5	1	1.0	-66	3.2	10.0		✓
85	-65	413	5	1	28.0	-65	59.9	9.7		✓
86	-66	362	5	1	46.5	-66	4.2	9.3		✓
87	-66	350	4	58	40.7	-66	23.1	8.9		✓
88									Not in CPD	✓
89	-66	354	5	0	10.8	-66	22.6	9.5		✓
90	-66	357	5	0	34.0	-66	31.3	9.3		✓
91	-66	356	5	0	28.5	-66	39.1	9.5		✓
92	-66	352	4	59	21.5	-66	44.7	10.0		✓
93									Not in CPD	✓
94	-66	351	4	58	43.3	-66	54.9	8.8		✓
95	-66	349	4	58	0.5	-66	26.8	9.0		✓
96									Not in CPD	✓
97	-66	342	4	56	9.0	-66	49.9	9.5		✓
98	-66	343	4	56	21.0	-66	39.8	9.1		✓
99	-66	340	4	54	51.0	-66	52.7	9.5		✓
100	-66	339	4	54	48.5	-66	56.9	9.4		✓

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1931phae.proj.22710

April 10, 1931

NF 9972

F. C.

101	1	K0	
102	2	G5	S. of two
103	1		
103a	4		n. G.C. 1763. Bright lines at 5007, Hβ, seen on α 15031, 2.
104	3	— Cont.	B on α 2760
104a	3	B	
105	1	B	Several br. lines seen.
105a		B	seen α 2940
106	4	B	Absorption in relatively faint spectrum on α 2940 but has appearance Class B
107	3	B	
107a	1?	B?	Probably n. G.C. 2116. See carb.
108	4	F8 K1	Hγ & Hδ bright on α 2940. See also 10864 — better spectrum 9972
108a	2	B Cont.	Typical Wolf-Rayet. See also α 2940
109	7	B0 on α 2940	Lines well seen
110	3	A3 Peb.	Dark lines seen. 2 neb. gleams on d. plate s. f. a
110a	2	A3	little bright — Bäcklund ~~F8 on d. plate~~ See I. V. 64, p. 218
111	4	Cont.	B0 on α 2940
112	7	Br.	F5
113	3	Cont.	B2 on α 2940
114	1	K5	
115	2	K7	
116	2	Pc.	Hγ strongest. Gas. neb.
117	2	K0	
118	2	G5	
119	3	F8	
120	2	G5	
121	7	Br.	G5
122	1	F8	
123	1	M0	
124	2	K0	
125	2	K2	

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1931phae.proj.22710

B 5720

May 1, 1931

101									not in CPD ✓
102									not in CPD ✓
103									not in CPD ✓
103a	-66°344	0	346	4	56	57.0	-66	348	9.9 ✓
104	-66	345	4	56	44.5	-66	35.9	9.9	not in CPD ✓
104a	-66	345	4	56	44.5	-66	35.9	9.9	not in CPD ✓
105	-66	346	4	56	39.0	-66	37.1	9.9	not in CPD ✓
105a	-66	345	4	56	44.5	-66	35.9	9.9	✓
106	-66	347	4	57	31.5	-66	38.9	9.8	not in CPD ✓
107									✓
107a									not in CPD ✓
108	-67	370	4	56	40.0	-67	4.9	9.8	✓
108a									not in CPD ✓
109	-67	364	4	55	9.0	-67	21.9	9.0	✓
110									not in CPD ✓
110a									not in CPD ✓
111	-67	358	4	53	24.0	-67	7.3	9.1	✓
112	-67	356	4	52	35.8	-67	21.1	8.8	✓
113	-66	335	4	52	9.0	-66	55.9	9.9	✓
114									not in CPD ✓
115									not in CPD ✓
116									not in CPD ✓
117	-67	357	4	52	38.5	-67	33.9	9.6	✓
118									not in CRD ✓
119	-67	374	4	58	5.0	-67	13.9	9.9	✓
120									not in CPD ✓
121	-67	376	4	58	48.0	-67	17.2	9.1	✓
122									not in CPD ✓
123									not in CPD ✓
124									not in CPD ✓
125									not in CPD

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1931phae.proj.22710

April 10, 1931

NF 9972

F. L.

126	7	F5	
127	2	G5	
128	1	Oe	
129	7	K0	
130	5	Cont.	Bon Az 5011, Az 2887.
131	4	K5	
132	4	G5	
133	4	bl.	Large nebulous object. Dark lines seen. Traces of dark hyd. lines seen.
134	1	K5	Best on 9967
135	1	K2	
135a	1	~~K~~F	Check. Hγ, Hδ, Hε seen. Kalos seen
136	3	K2	
137	2	K	S. of two
138	1	K5	
139	1	K5	
140	1	K5	
141	2	G5	Omit
142	4	bl.	Dark lines ~~seen~~ Sp. Looks like Class F. Nebulous object
143	2	G5	
144	3	G5	
145	1	K0	
146	5	K0	
147	3	K2	
148	2	K5	
149	1	K7	
150	2	K0	

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1931phae.proj.22710

B 5720

May 1, 1931

126	-66°	364	5	2	19.0	-66°	53.6	8.8	✓
127									not in CPD ✓
128									not in CPD ✓
129	-67	382	5	3	3.3	-67	5.0	9.1	✓
130	-67	383	5	3	8.0	-67	7.8	9.4	✓
131	-66	370	5	3	25.5	-66	48.5	9.4	✓
132	-66	369	5	3	21.5	-66	45.9	9.4	✓
133	-66	371	5	4	3.4	-66	36.1	neb.	✓
134									not in CPD ✓
135									not in CPD ✓
136	-66	366	5	2	45.5	-66	32.7	9.5	✓
137	-66	365	5	2	45.0	-66	27.6	10.0	✓
138									not in CPD ✓
139									not in CPD ✓
140									not in CPD ✓
141									not in CPD
142	-66	363	5	2	5.0	-66	17.0	neb.	✓
143									not in CPD ✓
144	-66	368	5	2	51.5	-66	2.1	10.0	✓
145									not in CPD ✓
146	-65	423	5	4	14.0	-65	55.9	9.1	✓
147	-65	426	5	5	23.0	-65	42.5	9.7	✓
148									not in CPD ✓
149									not in CPD ✓
150									not in CPD ✓

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1931phae.proj.22710

April 10, 1931

F 9.9 72/67

F.C.

151	3	K2
152	1	K0
153	1	m0
154	1	K7
155	7	g0
156	5	F5
157	2	g5
158	3	g0
159	4	F5
160	1	K7
161	2	K7
162	4	K0
163	2	m0
164	4	K7
165	4	K0
166	7	bn.
167	3	K0
168	3	m0
169	2	K7
170	2	K7
171	1	K0
172	5	K7
173	1	F2
174	1	K5
175	3	F5

K0

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1931phae.proj.22710

B 5720 May 1, 1931

151	-66°	373	5h	5m	48.5s	-66°	23.8'	10.0	✓
152									not in CPD ✓
153									not in CPD ✓
154									not in CPD ✓
155	-66	374	5	6	4.0	-66	7.8	8.9	✓
156	-65	427	5	6	9.3	-65	58.5	9.8	✓
157									not in CPD ✓
158	-65	433	5	7	23.8	-65	58.4	9.8	✓
159	-65	434	5	7	37.3	-65	59.8	9.8	✓
160									not in CPD ✓
161									not in CPD ✓
162	-65	432	5	7	10.5	-65	43.9	9.8	✓
163									not in CPD ✓
164	-65	431	5	6	30.0	-65	49.9	9.4	✓
165	-65	430	5	6	29.0	-65	42.4	9.4	✓
166	-65	428	5	6	11.0	-65	32.3	8.5	✓
167	-65	425	5	5	11.0	-65	17.4	10.0	✓
168	-65	422	5	3	30.5	-65	35.9	9.8	✓
169									not in CPD ✓
170	-65	438	5	9	34.0	-65	33.9	9.8	✓
171	-65	436	5	9	29.5	-65	39.9	10.0	✓
172	-65	439	5	9	36.5	-65	41.9	9.8	✓
173									not in CPD ✓
174									not in CPD ✓
175	-65	440	5	10	41.0	-65	49.9	9.8	✓

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1931phae.proj.2271C

Apr. 10, 1931

nF 9972

F.C.

176	3	Y0
177	8	Br.
178	1	K0
179	3	Y0
180	1	Y5
181	1	K7
182	2	K5
183	3	K0
184	2	Y5
185	5	A0
186	2	Y5
187	1	Y5
188	2	F5
189	6	Cont. on A2800, B, bright lines suspected
190	4	K2
191	3	Cont. on A2901, B
192	6	F8
193	8	Br.
194	1	K2
195	2	K0
196	1	F8
197	2	K0
198	1	K7
199	4	F8
200	3	F5

K2

G0

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1931phae.proj.2274C

B5720 May 1, 1931

176	-66°	381	5h	10m	26.0s	-66°	13.9'	9.7	✓
177	-66	380	5	9	56.0	-66	34.4	8.8	✓
178									Not in CPD ✓
179	-66	379	5	9	25.5	-66	49.5	9.5	✓
180									Not in CPD ✓
181									Not in CPD ✓
182									Not in CPD ✓
183	-66	377	5	8	46.5	-66	31.5	10.0	✓
184	-66	376	5	7	41.0	-66	21.4	10.0	✓
185	-66	375	5	7	34.0	-66	22.9	9.5	✓
186									Not in CPD ✓
187									Not in CPD ✓
188									Not in CPD ✓
189	-66	372	5	5	8.0	-66	54.1	9.1	✓
190	-67	389	5	5	40.5	-67	1.0	9.4	✓
191	-67	386	5	4	19.5	-67	25.1	9.4	✓
192	-67	393	5	8	56.0	-67	19.3	8.9	
				~~4~~	~~6.0~~		~~19.8~~	~~9.5~~	
193	-66	382	5	11	10.5	-66	50.1	8.8	✓
194									Not in CPD ✓
195									Not in CPD ✓
196									Not in CPD ✓
197									Not in CPD ✓
198									Not in CPD ✓
199	-66	383	5	13	8.5	-66	21.5	9.3	✓
200	-66	385	5	13	37.0	-66	28.5	9.3	✓

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1931phae.proj.2271c

April 11, 1931

mF 9972

F.C.

201	2	K7	
202	1	K2	
203	1	K5	
204	2	G5	
205	1	K7	
206	1	K0	Omit - 2 stars
207	2	M0	
208	2	K0	
209	7	Bn	K0
210	8	Bn	G0
211	10	Bn.	F5
212	8	Bn.	B8
213	1	K0	
214	4	A5	Very nebulous cluster.
215	1	K0	
216	1	K5	
217	3	G5	
218 9	1	K2	
218	1	K2	
220	1	K5	
221	1	K7	
221a	1	F0	See mF. 10064
222	4	K0	
223	4	M0	
224	1	K7	
225	1	K5	

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1931phae.proj.2274C

B 26816

May 12, 1931

			h	m	s		′		
201	-66°	384	5	13	28.0	-66°	21.0	10.0	✓
202									Not in CPD ✓
203									Not in CPD ✓
204									Not in CPD ✓
205									Not in CPD ✓
206									Not in CPD ✓
207									Not in CPD ✓
208									Not in CPD ✓
209	-65	437	5	9	32.0	-65	11.7	8.9	✓
210	-65	435	5	8	50.0	-65	17.0	8.7	✓
211	-65	441	5	11	31.5	-65	19.3	7.0	✓
212	-65	443	5	12	57.5	-65	22.5	7.5	✓
213									Not in CPD ✓
214	-65	444	5	13	14.5	-65	36.1	neb.	✓
215									Not in CPD ✓
216									Not in CPD ✓
217	-65	446	5	13	58.5	-65	50.5	10.0	✓
218									Not in CPD ✓
219									Not in CPD ✓
220									Not in CPD ✓
221									Not in CPD ✓
221a									Not in CPD ✓
222	-66	389	5	15	20.5	-66	4.5	9.8	
223	-66	391	5	16	15.0	-66	15.9	9.7	✓
224									Not in CPD ✓
225									Not in CPD ✓

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1931phae.proj.2271c

April 11, 1931

nF. 9972

7.C.

226	1	K7	
227	3	F8	
228	1	K7	
229	1	K5	
230	1	K2	
231	1	F2	
232	1	m0	
233	3	F5	
234	3	m0	
235	2	K7	
236	5	Br.	F0
237	10	Br.	F2
238	1	K2	
239	3	K0	
240	7	Br.	K0
241	5	Br.	F5
242	2	F8	
243	1	F2	Very nebulous Cluster?
244	3	K2	
245	1	F2	
246	1	m0	
246a	1	P	5007, 4959 neb α 15031, α 15029, 30
247	1	F5	N. of two
248	2	F0	
249	2	Cont.	Spectrum α 2 Cvn, Probably B, a few dark lines seen
250	5	A2	

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1931phae.proj.22710

B 2681 6 May 13, 1931

226									Not in CPD ✓
227	-66	392	5	16	20.0	-66	38.9	10.0	✓
228									Not in CPD ✓
229									Not in CPD ✓
230									Not in CPD ✓
231									Not in CPD ✓
232									Not in CPD ✓
233	-66	393	5	16	45.5	-66	4.9	10.0	✓
234	-65	448	5	16	51.5	-65	43.0	9.7	✓
235	-66	394	5	18	28.5	-66	0.9	10.0	✓
236	-66	396	5	19	21.0	-66	6.1	8.9	✓
237	-66	399	5	19	48.0	-66	10.8	7.3	✓
238	-66	403	5	20	2.0	-66	11.8	10.0	✓
239	-66	398	5	19	47.5	-66	21.1	9.5	✓
240	-66	397	5	19	44.0	-66	33.8	8.8	✓
241	-66	400	5	19	52.0	-66	43.7	8.9	✓
242	-66	402	5	20	1.0	-66	44.1	9.8	✓
243									Not in CPD ✓
244	-66	395	5	18	38.0	-66	55.5	9.8	✓
245									Not in CPD ✓
246	-66	401	5	19	59.0	-66	54.6	10.0	✓
246a									not in CPD ✓
247									Not in CPD ✓
248									Not in CPD ✓
249									Not in CPD ✓
250	-67	418	5	20	18.5	-67	17.0	9.2	✓

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1931phae.proj.2271C

April 11, 1931

mf 9972

F.C.

251	4	F0	
252	3	Cont.	Bm A2908
253	3	F8	
254	3	A0	
255	1	G0	
256	1	F5	
257	2	A3	
258	3	Cont.	Iron pm A2908 Probably B.
259	6	G0	
260	1	K	omit
261	1	A	omit
262	5	Br.	
263	3	Cont.	Iron pm A plate Probably B.
264	3	F8	
265	3	Cont.	Iron pm A plate Probably B.
266	2	K0	omit
267	4	F2	
268	5	F5	
269	2	K7	
270	1	Cont.	Iron pm A plate Probably B
271	3	O	
272	6	F8	
273	5	Br.	G5
274	5	Br.	K0
275	7	Br.	G0

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1931phae.proj.2271C

B 2681/6 May 13, 1931

251	-67°	419	5h	20m	20.5s	-67°	18.4'	9.4	✓
252	-67	420	5	20	30.0	-67	25.2	9.5	✓
253	-67	421	5	20	30.5	-67	14.1	9.4	✓
254	-67	422	5	20	38.0	-67	6.1	10.0	✓
255									Not in CPD ✓
256									Not in CPD ✓
257									Not in CPD ✓
258	-67	424	5	21	44.5	-67	13.1	10.0	✓
259	-67	426	5	22	48.5	-67	28.1	9.1	✓
260									Not in CPD
261									Not in CPD
262	-67	427	5	23	6.0	-67	18.1	9.3	✓
263	-67	429	5	23	9.5	-67	18.1	9.5	✓
264	-66	406	5	22	17.5	-66	48.1	10.0	✓
265	-66	409	5	23	41.0	-66	45.7	10.0	✓
266									Not in CPD
267	-66	411	5	24	49.5	-66	56.8	9.5	✓
268	-67	430	5	25	20.5	-67	30.3	9.3	✓
269									Not in CPD ✓
270									Not in CPD ✓
271	~~-68~~ -67	~~433~~	~~5~~	~~26~~	~~30.0~~	-67	36.0	9.6	Not in CPD. ✓
272	-67	434	5	26	26.0	-67	39.1	9.1	✓
273	-67	~~433~~ 432	5	25	51.5	-67	52.5	9.2	✓
274	-68	367	5	25	8.5	-68	0.3	9.2	✓
275	-68	369	5	25	29.5	-68	6.4	8.5	✓

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1931phae.proj.22710

April 11, 1931

MF 9972

F.C.

276	5	Br.	F8
277	3	Cont.	B m A=900
278	2	Cont.	" " "
279	3	Cont.	" " "
280	3	Cont.	" " "
281	4	Cont.	" " "
281a	1	A7	
282	7	Br.	A2
283	1	F5	= 9967, 2007
284	1	K7	
285	2	F5	
286	2	F2	
287	3	K0	apparently two of 3 components
288	4	(neb) Neb.	apparently hydrogen. Probable a neb. star, Class A
289	7	Br.	F5
290	2	G0	
291	5	Cont.	B m A=900 Perhaps B
292	1	A	
293	1	G0	
294	2	K9	
295	5	F8	
296	1	Cont	
297	X1	G0	
298	2	F5	
299	1	M0	
300	3	F2	

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1931phae.proj.22710

B 26816

May 13, 1931

276	−67°	436	5h	26m	50.0s	−67°	55.4′	9.0	✓
277	−67	435	5	26	31.0	−67	35.9	9.6	✓
278	−67	438	5	27	16.0	−67	45.5	9.6	✓
279	−67	437	5	27	2.7	−67	34.8	10.0	✓
280	−67	439	5	27	30.5	−67	18.8	9.5	
281	−67	439	5	28	10.0	−67	26.5	9.5	
282	−67	442	5	28	13.0	−67	41.5	8.7	✓
283									Not in CPD ✓
284									Not in CPD ✓
285									Not in CPD ✓
286									Not in CPD ✓
287									Not in CPD ✓
288	−66	414	5	26	5.0	−66	41.9	9.4	✓
289	−66	413	5	26	1.0	−66	32.8	8.4	✓
290									Not in CPD ✓
291	−66	415	5	27	39.5	−66	20.0	9.5	✓
292									Not in CPD ✓
293									Not in CPD ✓
294									Not in CPD ✓
295	−66	416	5	28	7.5	−66	37.9	9.2	✓
296									Not in CPD ✓
297									Not in CPD ✓
298									Not in CPD ✓
299									Not in CPD ✓
300	−67	441	5	28	10.5	−67	5.6	10.0	✓

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1931phae.proj.22710

April 13, 1931

F.C.

301	2	a7	lines narrow.
302	3	Cont.	Probably B.
303	4	K0	
304	7	Be.	K0
305	7	Be	F5
306	9	Be	A0
307	1	F5	
308	5	F8	
309	7	Be	F0
309a	2	a2	nebulous.
310	1	Cont.	Perhaps B3 on MF 1056
311	6	G0	
312	1	Cont.	
313	1	F8	
314	2	G0	
315	1	O	old No. 48 S 30.4 - 67 30 ann.
316	3	Cont.	
317	3	Cont.	
318	5	Cont.	~~Stars with nebulosity. Some lines~~ Probably B on 47577
319	1	a	
320	2	G5	
321	1	Cont.	Class not defined
322	5	G0	
323	2	Oa Cont	47503, 2 Short narrow H. lines as in Oe
323a	1	O	~~Class not defined~~ One bright band as in Oa
324	3	Cont	
325	4	Cont	2 lines in same R.A. brightest about 1' South ... Probably B
325a	1	B Cont	See 190, 74

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B 24144 May 1, 1921

301									not in CPD
302	-67°	446	5h	28m	56.0s	-67°	5.2'	9.8	
303	-66	420	5	29	13.3	-66	58.4	10.0	
304	-66	418	5	29	7.5	-66	46.9	8.5	
305	-66	419	5	29	12.0	-66	42.4	8.4	
306	-66	421	5	29	21.0	-66	31.9	7.7	
307									not in CPD
308	-66	423	5	30	24.0	-66	39.9	9.1	
309	-66	425	5	30	41.0	-66	37.9	8.5	
309a									not in C.P.D
310									not in CPD
311	-67	447	5	30	3.5	-67	13.1	8.9	
312									not in CPD
313									not in CPD
314									not in CPD
315									not in CPD
316	-67	450	5	30	34.0	-67	37.7	9.6	
317	-67	448	5	30	19.0	-67	21.1	10.0	
318	-67	457	5	30	57.0	-67	22.4	neb.	
319									not in CPD
320									not in CPD
321									not in CPD
322	-67	454	5	31	54.5	-67	33.2	9.3	
323									not in CPD
324									not in CPD
325	-67	456	5	32	32.5	-67	46.1	9.6	~~not in CPD~~
325a	-67°	459	5	32	41.0	-67	46.1	9.7	

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1931phae.proj.2271C

Apr. 13, 1931

nF 9972

7.C.

326	1	K5	
327	4	K5	
327a	1	P	5007, 4959 + Hβ seen, Lick Obs. A 15832
328	1	Lo	
328a		O	Em. nebular
329	2	Cont. F8	Bare trace of dark lines in violet. Too low on plate
330	4	B ~~A2~~	On clear plate, looks like a star with weak nebulosity. ~~Dark lines suspected.~~
331	1	Cont.	Class not definite
332	2	Cont.	" " "
333	1	~~Lo~~	omit
334	6	~~Lo~~	
335	1	Ko	omit
336	1	F8	
337	2	K2	
337a	4	Cont.	cluster? w hazy stars
338	6	~~Bo~~	
338a	4	A	- nebulosity 2. Hδ, Hε, Hγ seen
339	1	~~G5 Bo~~	
340	3	G5	
341	3	K5	
342	9	B ~~A~~	Stars with neb. near
342a	1	P	5727 emiss.
343	1	K2	
344	5	Ko	
345	2	Cont.	Dark lines seen – 10764 ~~suspected~~ (the nebulosity 2 stars in line)
346	2	Cont.	Perhaps B8
347	2	F5	
348	2	Cont.	
349	2	Go	
350	2	Cont.	

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B 24144 May 1, 1931

326									not in C.P.D. ✓
327									not in C.P.D. ✓
327a	-67°	460	5h	32m	46.0s	-67°	46.9'	neb.	✓
328									not in C.P.D. ✓
328a									not in C.P.D. ✓
329									not in C.P.D. ✓
330	-67	457	5	32	37.5	-67	36.2	neb.	✓
331									not in C.P.D. ✓
332									not in C.P.D. ✓
333									not in C.P.D.
334	-67	458	5	32	41.0	-67	10.4	8.9	✓
335									not in C.P.D.
336									not in C.P.D. ✓
337									not in C.P.D. ✓
337a	-66	424	5	30	25.5	-66	58.4	neb.	✓
338	-66	426	5	31	38.5	-66	45.8	8.5	✓
338a	-67	452	5	31	27.3	-67	2.7	10.0	✓
339									not in C.P.D. ✓
340	-66	427	5	31	43.0	-66	15.4	10.0	✓
341	-66	428	5	31	55.0	-66	26.2	10.0	✓
342	-66	429	5	32	15.0	-66	29.0	10.0	✓
342a	~~-69~~	~~452~~	~~5~~	~~31~~	~~27.3~~	~~-67~~	~~2.7~~	~~10.0~~	not in C.P.D. ✓
343									not in C.P.D. ✓
344	-66	430	5	32	54.0	-66	28.0	9.1	✓
345									not in C.P.D. ✓
346									not in C.P.D. ✓
347									not in C.P.D. ✓
348									not in C.P.D. ✓
349									not in C.P.D. ✓
350									not in C.P.D.

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Apr. 13, 1931

NF 9972

F.C.

351	4	G5	
352	1	Cont.	omit
353	5	Cont.	Bm A7577
354	3	Cont.	Dark lines seen in violet perhaps hydrogen Bm usual a plates. Perhaps B5.
355	1	G0	
356	5	A7	
357	4	M0	
358	4	K0	
359	4	Cont.	Bm A7577
360	4	Cont.	" " "
361	5	Cont.	" " " Lines narrow in NF 9967, seen clearly only towards violet.
362	7	G0	
362a			see 190 : 75 cluster
363	2	G5	
364	1	G0	omit
364a	1	P	NGC 2029 One nebulosity found at 5007.
365	8	Br.	F8
366	3	K7	
367	7	Br.	G
367a	1	P	Large neb. N.G.C. 2032 very diffuse neb.
368	2	A	
368a	1	P	Large neb. " 2035 " " "
369	2	M0	
370	2	K5	
370a	2	P	NGC 2040 5007+4957 and Hβ misty diffuse
371	2	G0	
371a	1	P	
372	1	Cont.	
372a	2	Cont.	
373	2	Cont.	
374	2	A5	
375	2	K7	
375a	1	F8	

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B 24144 May 1, 1931

351	−67°	461	5h	34m	8.0s	−67°	7.'2	10.0	✓
352									not in CPD
353	−67	464	5	34	30.5	−67	6.2	8.7	✓
354	−67	467	5	34	42.5	−67	3.3	9.5	✓
355	−67	466	5	34	40.0	−67	12.2	10.0	✓
356	−67	468	5	34	47.5	−67	13.2	9.3	✓
357	−67	463	5	34	21.5	−67	19.8	10.0	✓
358	−67	462	5	34	18.5	−67	25.4	9.5	✓
359	−67	465	5	34	33.0	−67	23.0	9.8	✓
360	−67	470	5	35	5.5	−67	25.9	9.4	✓
361	−67	472	5	35	11.0	−67	25.8	9.3	✓
362	−67	473	5	35	17.0	−67	33.1	8.8	✓
362a									
363									not in CPD ✓
364									not in CPD
365	−65°	388	5	34	17.5	−65°	1.1	8.8	✓
366	−68	389	5	34	57.5	−68	5.4	9.6	✓
367	−67	475	5	36	3.5	−67	56.7	9.0	✓
367a									not in CPD ✓
368									not in CPD ✓
369									not in CPD ✓
370	−67	479	5	36	20.0	−67	42.0	10.1	✓
371	−67	474	5	35	40.0	−67	27.7	9.6	✓
371a									not in CPD ✓
372	−67	476	5	36	6.5	−67	30.8	9.9	✓
372a									not in CPD ✓
373	−67	478	5	36	13.3	−67	21.9	9.9	✓
374	−67	480	5	36	34.5	−67	34.8	10.1	✓
375	−67	482	5	36	52.5	−67	35.2	10.1	✓

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April 13, 1931

DF 9972

F.C.

376	1	~~G5~~ Cont.	(Dup. 376 = 3 stars in line)
377	3	K2	
378	3	Cont.	Bon A7577
378a	1	~~K5~~	
379	1	G5	
380	1	G5	
381	2	Cont.	Torpid plates.
382	7	Go	
383	1	F8	
384	1	F5	
385	2	Cont.	
386	3	K0	
387	1	F8	Reject 78. K on 9967 + 10064
388	4	A0	
389	1	G5	F8 (sp. 7387 + 389 were evidently confused)
390	1	F5	
391	1	~~G~~ F	
392	2	~~F8~~	
393	2	M0	
394	3	M0	
395	2	Go	
396	2	K5	
397	3	F2	
398	1	M0	
399	1	M0	
400	4	Ma	

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1931phae.proj.22710

B 24144 May 1, 1931

376									not in CPD ✓
377	−67°	483	5h	37m	14.8s	−67°	9.6′	10.0	✓
378	−67	484	5	38	2.8	−67	47.2	9.9	not in CPD ✓
378a									not in CPD ✓
379									not in CPD ✓
380	~~−67~~	~~485~~	~~5~~	~~38~~	~~37.0~~	~~−67~~	~~15.2~~	~~9.0~~	not in CPD ✓
381									not in CPD ✓
382	−67	485	5	38	37.0	−67	15.2	9.0	✓
383									not in CPD ✓
384									not in CPD ✓
385	−67	487	5	39	53.0	−67	25.5	10.2	✓
386	−67	488	5	40	4.5	−67	40.8	10.0	✓
387									not in CPD ✓
388	−67	489	5	40	25.0	−67	29.2	9.6	✓
389									not in CPD ✓
390									not in CPD ✓
391									not in CPD ✓
392									not in CPD ✓
393	−68	423	5	43	4.0	−68	6.9	10.0	✓
394	−68	426	5	43	29.5	−68	8.5	10.0	✓
395	−68	429	5	44	1.0	−68	7.3	10.0	✓
396	−68	432	5	44	40.5	−68	15.6	10.1	✓
397	−68	433	5	44	42.0	−68	14.0	10.0	✓
398									not in CPD ✓
399									not in CPD ✓
400	−67	498	5	44	9.5	−67	44.9	9.6	✓

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Apr. 14, 1931

F, 9972

7.C.

401	1	A3
402	2	K0
403	2	K0
404	4	F0
405	2	Cont.
406	1	F8
407	4	G5
408	4	G0
409	8	Bn.
410	3	K0
411	1	A3
412	3	A0
413	4	G5
414	2	K5
415	1	K0
416	5	G0
417	2	F8
418	1	K0
419	2	K7
420	2	F2
421	2	K5
422	1	F5
423	2	F2
424	4	K0
425	1	K2

F5

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1931phae.proj.22710

B 26320

May 1, 1931

401									Not in CPD ✓
402									Not in CPD ✓
403	-67°	491	5h	41	15.5	-67°	25.3	10.0	✓
404	-67	490	5	41	4.0	-67	11.1	9.6	✓
405									Not in CPD ✓
406									Not in CPD ✓
407	-66	443	5	40	11.5	-66	57.8	9.4	✓
408	-66	442	5	40	2.5	-66	59.0	9.4	✓
409	-67	486	5h	39	44.9	-67	6.3	8.4	✓
410	-66	441	5	39	4.0	-66	51.9	10.1	✓
411									Not in CPD
412									Not in CPD ✓
413	-66	444	5	41	37.0	-66	43.9	9.6	✓
414	-66	445	5	41	41.5	-66	50.5	10.1	✓
415									Not in CPD ✓
416	-66	448	5	42	56.0	-66	35.1	9.4	✓
417									Not in CPD ✓
418									Not in CPD ✓
419									Not in CPD ✓
420	-66	449	5	43	25.5	-66	28.0	10.1	✓
421									Not in CPD ✓
422									Not in CPD ✓
423									Not in CPD ✓
424	-66	451	5	44	24.0	-66	47.9	9.6	✓
425									Not in CPD ✓

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Apr. 14, 1931

MF 9972

F.C.

426	3	Go	
427	10	Br.	F8
428	4	Go	
429	2	Cont.	
430	2	F8	
431	1	K5	
432	2	Cont.	
433	5	Cont.	B m a 7577 and 2 F 97
434	2	Cont.	
435	5	Go	
436	5	F8	
437	4	Go	Overlap of 2 in line
438	2	F5	
439	4	Go	
440	1	G5	
441	1	F8	omit
442	1	Ko	
443	6	Ao	
444	6	Ko	
445	3	Cont.	B m a 7577
446	2	G5	
447	3	G5	
448	2	Ko	
449	8	~~Br. Cont~~	Ao
450	6	A3	

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1931phae.proj.2271c

B 26320 May 1, 1931

426	-67°		497	5h	43m	28.0s	-67°	6.1'	10.1	✓
427	-67		496	5	42	53.0	-67	11.4	7.9	✓
428	-67		495	5	42	44.5	-67	23.0	9.7	✓
429										Not in CPD ✓
430	-67		494	5	42	14.5	-67	24.0	10.0	✓
431										Not in CPD ✓
432										Not in CPD ✓
433	-67		499	5	44	37.0	-67	15.1	9.7	✓
434	-67		501	5	45	9.5	-67	22.6	10.1	✓
435	-67		502	5	45	14.0	-67	13.4	9.4	✓
436	-67		506	5	45	31.5	-67	7.3	9.4	✓
437	-67		503	5	45	14.5	-67	5.7	10.0	✓
438										Not in CPD ✓
439	-67		505	5	45	23.0	-67	31.3	9.8	✓
440										Not in CPD ✓
441										Not in CPD
442										Not in CPD ✓
443	-68		434	5	45	58.0	-68	4.0	9.5	✓
444	-67		507	5	46	9.5	-67	54.4	9.3	✓
445	-67		508	5	46	24.0	-67	53.0	9.9	✓
446										Not in CPD ✓
447	-68		436	5	46	57.0	-68	5.9	10.0	✓
448	-68		437	5	47	30.0	-68	5.4	10.0	✓
449	-67		509	5	46	29.0	-67	45.0	7.8	✓
450	-67		511	5	46	44.0	-67	44.5	9.1	✓

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Apr. 14, 1931

MF 9972

F.C.

451	2	F8	
452	2	F2	
453	2	G5	
454	7	G0	
455	2	G0	
456	1	K5	
457	1	K0	
458	8	Br.	Mt
459	5	Br.	
460	6	Br.	
461	2	Cont. ✓	
462	2	F8 ~~Cont.~~	See MF 9967 when H&K are clearly seen.
463	3	G0	
464	1	G5	
465	1	K0	
466	2	F5	
467	1	K0	
468	2	G5	
469	2	A0	
470	5	G5	
471	2	Cont. ✓	omit
472	1	F5	
473	5	Br.	
473a	2	G0	A
474	3	G5	~~cf.~~ A faint star D.M. makes sp. both hazy.
475	6	Br.	A0

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1931phae.proj.2271c

B 26320 May 1, 1931

451	-67°	514	5h	47m	15.5s	-67°	42.1'	10.1	✓
452	-67	510	5	46	34.5	-67	36.5	10.1	✓
453									Not in CPD ✓
454	-67	513	5	47	4.5	-67	28.1	8.9	✓
455	-67	512	5	47	1.0	-67	15.8	10.1	✓
456									Not in CPD ✓
457									Not in CPD ✓
458	-67	515	5	47	45.5	-67	47.7	9.1	✓
459	-68	440	5	49	23.5	-68	25.5	9.0	✓
460	-68	442	5	51	19.5	-68	27.4	9.0	✓
461									Not in CPD ✓
462									Not in CPD ✓
463	-67	517	5	50	40.5	-67	46.0	9.6	✓
464									Not in CPD ✓
465									Not in CPD ✓
466	-67	518	5	51	36.5	-67	40.4	10.0	✓
467									Not in CPD ✓
468									Not in CPD ✓
469									Not in CPD ✓
470	-68	444	5	52	24.5	-68	4.6	9.5	✓
471									Not in CPD
472									Not in CPD ✓
473	-68	447	5	53	5.0	-68	12.9	9.2	✓
473a	-68	445	5	52	56.0	-68	5.4	10.2	✓
474	-68	446	5	52	58.0	-68	20.4	9.9	✓
475	-68	449	5	53	39.5	-68	27.7	9.0	✓

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1931phae.proj.22710

Apr. 14, 1931

DF 9972

F.C.

476	1	G0	
477	3	G5	
478	8	Bv.	K0
479	1	M0	
480	5	A0	
481	1	F5	
482	2	F8	
483	2	G0	
484	2	Cont.	Probably B. Emg visible on several plates
485	2	F5	
486	3	K0	
487	6	K5	
488	4	A2	
489	2	F8	
490	2	F5	
491	4	K2	
492	1	G5	
493	3	K0	
494	3	A3	
495	8	Bv.	K0
496	1	F2	
497	5	F5	
498	2	F8	
499	3	F5	
500	2	A	Cluster. Very hazy

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1931phae_proj_22716

B 26320

May 1, 1931

476									Not in CPD ✓
477	-68°	452	5h	54m	32.0s	-68°	35.1'	9.9	✓
478	-68	448	5	53	20.7	-68	59.5	9.0	✓
479									Not in CPD ✓
480	-68	454	5	55	46.5	-68	40.1	9.2	✓
481									Not in CPD ✓
482									Not in CPD ✓
483									Not in CPD ✓
484	-68	451	5	54	26.5	-68	19.8	10.1	✓
485	-68	450	5	53	43.5	-68	8.2	10.0	✓
486	-67	523	5	54	56.5	-67	57.0	10.0	
487	-67	521	5	52	49.0	-67	35.7	9.5	✓
488	-67	524	5	53	2.0	-67	42.1	9.8	✓
489	-67	526	5	53	41.5	-67	39.1	10.1	✓
490	-67	527	5	54	19.0	-67	38.4	10.1	✓
491	-67	529	5	55	25.5	-67	43.7	9.6	✓
492									Not in CPD ✓
493	-68	453	5	55	45.5	-68	3.1	9.7	✓
494	-68	455	5	56	0.0	-68	3.8	10.0	✓
495	-68	456	5	56	10.0	-68	3.8	8.6	✓
496									Not in CPD ✓
497	-68	457	5	56	28.0	-68	16.3	9.8	✓
498									Not in CPD ✓
499	-68	458	5	58	4.0	-68	29.1	9.9	✓
500									Not in CPD ✓

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1931phae.proj.22710

apr. 15, 1931

DF 9972.

F.C.

501	2	F2
502	1	F8
503	1	G0
504	2	F8
505	2	F5
506	1	a7
507	1	F0
508	3	G0
509	1	F0
510	1	K0
511	2	K0
512	3	F8
513	1	G0
514	1	K2
515	2	F8
516	5	G5
517	1	K0
518	2	G5
519	3	G0
520	2	F8
521	2	G0
522	4.	a3	d. Very hazy.
523	5	F0
524	2	F2
525	1	K2

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May 1, 1931

501									Not in CPD ✓
502									Not in CPD ✓
503									Not in CPD ✓
504									Not in CPD ✓
505									Not in CPD ✓
506									Not in CPD ✓
507									Not in CPD ✓
508									Not in CPD ✓
509									Not in CPD ✓
510									Not in CPD ✓
511									Not in CPD ✓
512									Not in CPD ✓
513									Not in CPD ✓
514									Not in CPD ✓
515									Not in CPD ✓
516	-67°	546	5h 6m	2m	10.5s	-67°	51.7'	9.2	✓
517									Not in CPD ✓
518									Not in CPD ✓
519									Not in CPD ✓
520									Not in CPD ✓
521									Not in CPD ✓
522	-68	459	5	59	36.5	-68	31.1	neb.	✓
523	-68	460	6	0	29.0	-68	27.2	9.5	✓
524									Not in CPD ✓
525									Not in CPD ✓

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apr. 15, 1931

NF 9972

7. C.

526	2	a	d. Very hazy
527	3	K0	
528	1	F0	omit
529	2	Cl.	Dark lines seen. Mrs Chas A. Lines confirmed, least
530	1	F8	it looks more like F3. omit
531	3	G0	
532	1	G5	
533	2	G5	
534	3	G5	
535	1	F5	
536	2	F2	
537	1	F5	
538	2	M0	
539	2	F2	
540	1	K5	
541	1	K0	
542	2	K2	
543	4	G0	
544	4	F5	
545	3	K0	
546	3	F2	
547	1	M0	Omit
548	1	G5	Omit
549	4	G0	
550	1	G0	

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1931phae.proj.22710

May 1, 1931

			h	m	s		'		
526									Not in CPD ✓
527									Not in CPD ✓
528									Not in CPD
529									Not in CPD ✓
530									Not in CPD
531									Not in CPD ✓
532									Not in CPD ✓
533									Not in CPD ✓
534									Not in CPD ✓
535									Not in CPD ✓
536									Not in CPD ✓
537									Not in CPD ✓
538									Not in CPD ✓
539									Not in CPD ✓
540									Not in CPD ✓
541									Not in CPD ✓
542									Not in CPD ✓
543	-69°	558	6	1	50.5	-69°	51.5	10.0	✓
544	-69	560	6	2	30.0	-69	10.1	10.0	✓
545									Not in CPD ✓
546	-68	461	6	2	30.5	-68	39.6	10.0	✓
547									Not in CPD
548									Not in CPD
549	-68	464	6	3	32.0	-68	28.3	10.1	✓
550									Not in CPD ✓

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April 15, 1931

MF 9972

F.C.

551	1	K0
552	1	K2
553	1	K5
554	2	K0
555	1	F8
556	2	G0
557	1	G0
558	1	F5
559	2	F0
560	5	F2
561	5	F0
562	4	G0
563	2	G0
564	5	F5
565	7	Be.
566	1	M0
567	2	F5
568	3	A5
569	2	G5
570	2	F0
571	2	F8
572	1	G0
573	2	G5
574	2	G0
575	7	Be.

A2

K0

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1931phae.proj.2271c

May 1, 1931

551									Not in CPD ✓
552									Not in CPD ✓
553									Not in CPD ✓
554									Not in CPD ✓
555									Not in CPD ✓
556									Not in CPD ✓
557									Not in CPD ✓
558									Not in CPD ✓
559									Not in CPD ✓
560	-69°	569	6h	6m	17.0s	-69°	1.0'	9.5	✓
561	-69	568	6	6	8.5	-69	17.1	9.5	✓
562	-68	471	6	7	10.5	-68	59.3	9.9	✓
563									Not in CPD ✓
564	-68	574	6	8	44.0	-68	19.1	9.2	
565	-68	572	6	7	16.5	-68	14.1	8.4	
566									Not in CPD ✓
567									Not in CPD ✓
568	-68	573	6	8	40.5	-68	7.9	10.0	
569	-68	577	6	9	12.0	-68	8.8	10.2	
570									Not in CPD ✓
571									Not in CPD ✓
572									Not in CPD ✓
573									Not in CPD ✓
574									Not in CPD ✓
575	-68	579	6	12	18.5	-68	13.7	9.2	

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April 15, 1931

MF 9972

F. C.

576	4	Go
577	8	Bn.
578	7	F8
579	1	Go
580	6	Bn.
581	3	Go
582	1	Go
583	4	F8
584	1	Neb.
585	1	Mo
586	3	Ao
587	2	Go
588	3	G5
589	1	K7
590	1	G5
591	1	Go
592	1	K5
593	2	F8
594	1	Go
595	1	F5
596	1	F8
597	3	Go
598	5	F8
599	5	F8
600	6	Go

A₀

K

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May 1, 1931

576	-69°	581	6h	13m	4.0s	-69°	12.2'	10.0	✓
577	-69	582	6	13	35.0	-69	12.1	7.8	✓
578	-69	584	6	14	3.0	-69	20.0	9.0	✓
579									Not in CPD ✓
580	-69	583	6	13	56.0	-69	44.6	9.7	✓
581									Not in CPD ✓
582									Not in CPD ✓
583	-68	477 (4)	6	11	45.0	-68	57.4	10.0	✓
584									Not in CPD ✓
585									Not in CPD ✓
586									Not in CPD ✓
587									Not in CPD ✓
588									Not in CPD ✓
589									Not in CPD ✓
590									Not in CPD ✓
591									Not in CPD ✓
592									Not in CPD ✓
593									Not in CPD ✓
594									Not in CPD ✓
595									Not in CPD ✓
596									Not in CPD ✓
597									Not in CPD ✓
598	-68	473	6	7	58.0	-68	13.7	9.6	✓
599	-68	472	6	7	35.0	-68	15.2	9.6	✓
600	-68	470	6	7	8.5	-68	5.5	9.5	✓

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Apr. 16, 1931

DF 9972

F.C.

601	1	G0
602	5	G0
603	1	F0
604	2	K0
605	1	A5
606	1	K5
607	2	G0
608	5	F8
609	3	G0
610	6	G5
611	3	F2
612	5	G0
613	1	K0
614	2	G5
615	2	F8
616	5	G0
617	1	A5
618	1	K2
619	1	A3
620	4	F8
621	1	F5
622	3	K0
623	1	G5
624	2	F2
625	2	F5

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1931phae.proj.22710

B 40901

~~Not in CPD~~

May 13, 1931

601									Not in CPD ✓
602	-68°	469	6h	5m	41.0s	-68°	23.0'	9.5	✓
603									Not in CPD ✓
604	-68	468	6	5	16.5	-68	28.3	9.8	✓
605									Not in CPD ✓
606									Not in CPD ✓
607									Not in CPD ✓
608	-68	467	6	4	25.0	-68	30.9	9.2	✓
609	-68	465	6	3	56.0	-68	15.3	10.0	✓
610	-68	463	6	3	26.5	-68	15.4	9.2	✓
611	-68	462	6	3	23.5	-68	17.8	10.0	✓
612	-68	466	6	4	13.0	-68	2.4	9.4	✓
613									Not in CPD ✓
614									Not in CPD ✓
615									Not in CPD ✓
616	-67	553	6	5	15.0	-67	41.1	9.6	✓
617									Not in CPD ✓
618									Not in CPD ✓
619									Not in CPD ✓
620	-67	558	6	7	40.0	-67	40.0	9.7	✓
621	~~-67~~	~~559~~	~~6~~	~~8~~	~~10.0~~	~~-67~~	~~31.1~~	~~10.1~~	Not in CPD
622	-67	~~60~~ 59	6	~~10~~ 8	~~16.0~~ 10.0	-67	~~26.1~~ 31.1	10.1	
623									Not in CPD ✓
624									Not in CPD ✓
625									Not in CPD ✓

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1931phae.proj.22710

Apr. 16, 1931

mF 9972

F.C.

626	2	A3
627	1	K5
628	4	A3
629	1	K2
630	3	A3
631	4	K2
632	4	K1
633	3	A5
634	4	F8
635	2	M0
636	2	G5
637	3	F8
638	5	K0
639	1	G5 omit
640	4	G5
641	3	G0
642	3	F2
643	6	F5
644	2	F0
645	3	A0 Precision. Ft. B5720. mF9967. Br. B4503.
646	4	G0
647	1	K1
648	10	Bn. ... K0
649	4	G0 ... "
650	8	Bn. ... K5

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1931phae.proj.22710

B 40901 May 13, 1931

626									not in CPD ✓
627									not in CPD ✓
628	-68°	475	6h	10m	7.0s	-68°	11.9'	9.6	✓
629									not in CPD ✓
630	-68	476	6	11	9.0	-68	18.3	10.1	✓
631	-68	478	6	11	51.5	-68	32.2	9.9	✓
632	-68	479	6	12	8.0	-68	33.6	9.9	✓
633	-68	480	6	12	44.5	-68	37.1	10.1	✓
634	-68	481	6	12	47.0	-68	30.0	10.2	✓
635									not in CPD ✓
636									not in CPD ✓
637									not in CPD ✓
638	-67	562	6	11	4.5	-67	55.9	9.7	✓
639									not in CPD
640	-67°	560	6	10	16.0	-67	26.1	10.1	~~not in CPD~~
641									not in CPD ✓
642									not in CPD ✓
643	-67	561	6	10	48.5	-67	26.0	9.1	✓
644									not in CPD ✓
645									not in CPD ✓
646	-66	495	6	7	54.0	-66	58.8	9.4	✓
647									not in CPD ✓
648	-67	557	6	7	6.0	-67	15.8	8.2	✓
649	-67	556	6	6	56.5	-67	14.4	9.9	✓
650	-67	555	6	6	41.0	-67	24.1	9.1	✓

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1931phae.proj.22710

Apr. 16, 1931

nF 9972

F.C.

651	2	F2	
652	3	F5	
653	1	K5	
654	3	F5	
655	3	F8	
656	9	Br.	Ae
657	2	F8	
658	3	G5	
659	3	G0	
660	3	K7	
661	2	F2	
662	3	F2	
663	2	F8	
664	2	A3	
665	7	Br.	Ko
666	6	G0	
667	1	G5	
668	3	F8	
669	2	F5	
670	1	G5	
671	7	K0	
672	1	K	
673	3	F2	
674	7	Br	Ko
675	7	Br	Ko

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1931phae.proj.22710

B 40901 May 13, 1931.

651	-67°	554	6h	6m	26.5s	-67°	16.'6	10.1	✓
652	-67	552	6	5	7.5	-67	30.4	9.6	✓
653									Not in CPD ✓
654	-67	551	6	4	29.0	-67	22.4	10.0	✓
655	-67	550	6	3	28.0	-67	11.3	10.0	✓
656	-67	549	6	3	23.5	-67	18.0	7.5	✓
657									Not in CPD ✓
658	-67	548	6	2	41.0	-67	40.6	9.9	✓
659	-67	547	6	2	15.5	-67	37.3	10.0	✓
660									Not in CPD ✓
661									Not in CPD ✓
662	-67	545	6	0	42.5	-67	32.6	10.0	✓
663									Not in CPD ✓
664									Not in CPD ✓
665	-67	541	5	58	43.5	-67	28.6	9.8	✓
666	-67	540	5	58	25.5	-67	41.3	9.8	✓
667									Not in CPD ✓
668	-67	537	5	57	43.5	-67	39.1	10.0	✓
669	-67	539	5	57	58.5	-67	31.2	10.2	✓
670									Not in CPD ✓
671	-67	535	5	57	40.0	-67	26.1	9.1	✓
672									Not in CPD ✓
673	-67	533	5	56	41.5	-67	36.8	10.0	✓
674	-67	532	5	56	22.5	-67	33.1	9.0	✓
675	-67	530	5 ~~67~~	55	58.5	-67	34.8	9.0	✓

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April 16, 1931

nF 9972

F.C.

676	2	F5
677	2	G5
678	1	F5
679	5	G5
680	3	G0
681	1	G0
682	8	Br.
683	3	K0
684	3	F5
685	3	G0
686	1	F8
687	4	K0
688	1	F5
689	6	F8
690	5	G0
691	2	K5
692	6	A0
693	1	F5
694	1	A
695	4	K0
696	1	F8
697	2	G0
698	6	G5
699	1	K5
700	1	K0

G0

Cmt. Bk 190, 2

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1931phae.proj.2271c

B 40901 May 13, 1931

676									Not in CPD ✓
677									Not in CPD ✓
678									Not in CPD ✓
679	−67′	528	5ʰ	55ᵐ	22.0ˢ	−67°	12.′4	9.4	✓
680	−66	475	5	54	31.0	−66	57.2	10.1	✓
681									Not in CPD ✓
682	−67	531	5	56	12.0	−67	5.1	8.8	✓
683	−67	534	5	57	11.5	−67	7.1	10.0	✓
684	−67	536	5	57	40.5	−67	9.5	9.9	✓
685	−67	538	5	57	53.5	−67	8.0	10.1	✓
686									Not in CPD ✓
687	−67	542	5	59	16.0	−67	4.2	9.7	✓
688									Not in CPD ✓
689	−67	543	5	59	43.5	−67	1.3	9.4	✓
690	−66	489	6	1	1.0	−66	55.7	9.4	✓
691									Not in CPD ✓
692	−66	490	6	1	39.0	−66	35.1	9.1	✓
693									Not in CPD ✓
694									Not in CPD ✓
695	−66	492	6	3	53.5	−66	46.1	9.6	✓
696									Not in CPD ✓
697									Not in CPD ✓
698	−66	491	6	3	52.0	−66	28.5	9.6	✓
699									Not in CPD ✓
700									Not in CPD ✓

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1931phae.proj.22710

May 4, 1931

Examination of MH 10664 for objects classified & omitted in MF 9972

MF 9972

110 A7 Type nebr. objects in cluster MF 9956

110a A7 Both stars slightly reddened, Hδ Hε abs.
Both widened from Hβ to Hδ.
K certainly seen in both spectra
B fainter than Hε. Classification
A7 depends on lines Hδ, Hε, & K.
Helium 4026 is not seen.

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June 5, 1931

Class. of stars in crowded regions of 9967

Region of 5 27.1 − 68 55

	Classified as		Marked on A 8561.
2201	2	A	Cluster. Hγ, Hδ, Hε seen clearly. Perhaps Kζ imper.
2202	2	O	Wide hz band.
2203	4	A7	Classified from H+K. Other lines n.s. Lines probably very narrow.
2204	6	B	On A ~~15-041~~ 15-032 bright lines suspected
2205	1	O	Bright band seen on A 15~~04~~ 03', 032, north of 2204 This spectrum is nearly all sup.m other but the brightest portion appears like band of Class O
2206	5.	B	
2207	1	O	Band seen on 15031, 2, sup.m sp. of other stars.
2208	3	Pec	Hβ, Hδ bright and other lines seen Obl no. 304 Looks double on A 8561. Comp. seen on A 11586, n.f. + much fainter than 2208. Too close to determine to which star the lines belong but the comp. is probably the faint. Assume the brighter. Intensity esh. false owing to superp. on other spectra.
2209	3	Cont.	Neb. Traces of dark lines seen.
2210	5	Cont.	Neb. A few indef. dark lines seen, and bright lines suspected. Dark lyd. in neb. Bright lines seen on A 15031, 2 foll. this sp. & S. They look like nebular lines but I cannot connect with any object on chart plates.

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1931phae.proj.2271C

2201								Not in C.P.D.	✓
2202								Not in C.P.D.	✓
2203	−68°372	5	27	20.0	−68	58.0	9.6		✓
2204	−68° 373	5	27	29.5	−68	55.8	9.2		✓
2205								Not in C.P.D.	✓
2206	−68°374	5	27	38.0	−68	56.0	9.6		✓
2207								Not in C.P.D.	✓
2208								Not in C.P.D.	✓
2209	−68°379	5	28	32.0	−68	5.1	neb		✓
2210	−69°378	5	28	31.0	−69	14.0	neb.		✓

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1931phae.proj.22710

June 5, 1931

In F9967 Comp. by a plates

2211 3 Per. Hyd. Emis. bright. Old iso 5 l. Double lines
HB, HH, H5 h. in S. p. cmp.

2212 1 O? Bright bands. The principal band appears to match a class member a
Dem m a15031 Ca 5561 Identification difficult
15032 glass side cmp

S

2212 In comp n. f. 1518

2213 1 O? ~~In comp n f. 1518~~

S

Again S. f. 1520

2214 See page 146

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1931phae.proj.22710

2211	-69°	383	5	29	14.0	-69	14.1	Neb. ✓
2212								Nebulous C.P.D. ✓
2213								Nebulous C.P.D. ✓

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