KG
11365
871

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HENRY DRAPER MEMORIAL.

No 53.

Discussion of Draper Catalogue

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Grouping of H, I and K Stars. -0°--~~29~~ 30°

0 h. - 1 h.

3.0	3.5	4.0	4.5	5.0	5.3
		(19) (16) (18)		(11) (15) (14)	. 4 4
				(15) (15) (14)	6 5 7
				(18) (18) (12)	4 6 4
				(14) (14) (11)	

Σ+	0	0	0	0	0	0	0	4	4
Σ−	19	16	18 ✓	58	62	51 ✓	10	11	11
Dif.	-19 ✓	-16 ✓	-18 ✓	-58 ✓	-62 ✓	-51 ✓	-10 ✓	-7 ✓	-7 ✓
No.	1 ✓	1 ✓	1 ✓	4 ✓	4 ✓	4 ✓	2 ✓	3 ✓	3 ✓
Mean.	-1.90 ✓	-1.60 ✓	-1.80 ✓	-1.45 ✓	-1.55 ✓	-1.28 ✓	-.50 ✓	-.23 ✓	-.23 ✓

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Grouping of H, I, and K Stars -0° - -30°

0 h. - 1 h.

6.0	6.5	7.0	7.5
7 (11) (13)	. 1 .	2 3 .	
(10) (17) (14)	11 .	4 7 .	
. 3 2	2 5 7	6 7 8	
. 0 2	6 7 7	5 8 .	
7 3 4	7 (10) (12)	2 F .	
. 0 0	. 4 .	. 1 .	
. 3 4	8 (12) (12)	22 .	
8 8 (10)	0 2 1	10 .	
3 3 4	6 5 .	(10) 6 .	
8 3 3	3 0 .	3 3 2	
3 5 4	7 (14) .	7 F .	
2 5 5	(10) 5 3	7 F .	
8 7 7	0 2 .	3 2 .	
2 5 3	2 5 2	(12) F .	
. 8 6	4 2 0		
1 1 4	. (13) .		
2 4 3	0 4 .		
	6 6 .		
	2 4 4		
	7 F .		
	4 7 8		
	. 9 .		
	1 2 ,		
	4 F .		
	2 2 .		
	~~9 F .~~		

4	3	2
59	85	86
-55✓	-82✓	-84✓
12✓	17✓	17✓
-.46✓	-.48✓	-.49✓

88	94	7
67	80	65
+21✓	+14✓	-58✓
36✓	38✓	15✓
+.06✓	+.04✓	-.39✓

34	10	0
30	29	10
+4✓	-19✓	-10✓
13✓	10✓	2✓
+.03✓	-.19✓	-.50✓

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Grouping of H, I, and K Stars. −0° − −30°
2h. − 3h.

3.0	3.5	4.0	4.5	5.0	5.5
				(12)(12) 9	3 2 1
				(15)(12)(11)	. 3 6
				(15)(15)(11)	(15)(21)(17)

Σ+	0	0	0		3	0	1
Σ−	42	39	31		15	26	23
Dif.	−42	−39	−31		−12	−26	−22
No.	3	3	3		2	3	3
Mean	−1.40	−1.30	−1.03		−.68	−.87	−.73

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Grouping of H, I, and K Stars. −0° − −30°
2h. − 3h.

6.0	6.5	7.0	7.5
3 1 1	(10) 0.	2 11	
2 1 1	9 F.	5 2 3	
7 7.	(13) F.		
5 2 2	(10) F.		
0 0.	5 5.		
3 2.	. 40		
1 1.	4 1.		
. 1 2	4 5.		
3 0 3	0 1.		
(10)(10).	3 2.		
2 2 1	2 7 7		
2 4.	. 7 7		
8 F.	. 2 1		
7 7.	. 2 2		
. 2 1	5 6 7		
8 9 (10)	4 5 4		
4 1.	5 5 5		
1 3 5	3 2 4		
8 3 5	2 0.		
. 2 1	4 1.		
6 5.	3 1 5		
(15)(11)(14)			

52	41	4
43	33	42
+9✓	+8✓	−38✓
19✓	21✓	12✓
+.05✓	+.04✓	−.32✓

57	17	0
29	39	42
+28✓	−22✓	−42✓
17✓	18✓	10✓
+.16✓	−.12✓	−.42✓

2	1	1
5	2	3
−3✓	−1✓	−2✓
2✓	2✓	2✓
−.15✓	−.05✓	−.10✓

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Grouping of H, I, and K Stars. −0° - 30°

4h - 5h.

3.0	3.5	4.0	4.5	5.0	5.5
		(11) (12) (11)		5 8 7	. (18) (17)
				(12) (11) (13)	8 1 2
				(11) (17) (15)	(10) 9 (10)
				5 (11) 8	0 5 (10)

Σ+	0	0	0		0	0	0		8	0	0	
Σ−	11	12	11		33	47	43		10	33	39	
Dif	−11	−12	−11		−33	−47	−43		−2	−33	−39	
No.	1	1	1		4	4	4		3	4	4	
Mean	−1.10	−1.20	−1.10		−.82	−1.18	−1.08		−.07	−.82	−.98	

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Grouping of H, I, and K Stars. −0° − −30°

4h. − 5h.

6.0	6.5	7.0	7.5
(13) 9 (12)	4 7 7	3 0 :	
9 5 (10)	4 4 6	(10) 0 .	
(11) 6 3	2 3 5		
4 8 6	(17) 9 7		
2 3 3	1 3 .		
. 5 2	. 3 4		
. 4 8	1 1 5		
5 3 2	1 1 4		
1 1 2	6 2 4		
5 6 1	1 4 .		
2 6 (10)	5 5 6		
5 var. R (11)	5 2 2		
. 5 (10)	7 F .		
	7 4 .		
	(16) F .		
	(12) 9 .		

13 15 5	57 26 0	13 0 :
39 46 64	32 31 50	0 0 :
−26√ −31√ −59√	+25√ −5√ −50√	+13√ 0√ :
9√ 12√ 12√	15√ 14√ 10√	2√ 2√ :
−.29√ −.26 −.49√	+.17√ −.04√ −.50√	+.65√ .00√ :

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Grouping of H, I, and K Stars. -0° - -30°
6h - 7h

3.0	3.5	4.0	4.5	5.0	5.5
				7 8 7	8 (10)(13)
				9 9 7	6 0 3
					5 5 7
					7 2 5
					. (18)(19)
					1 2 5
					. 3 3
					1 5 7

D.C.
* 2477

Σ+	0	0	0	1	3	0
Σ−	16	17	14	27	42	62
Dif	-16√	-17√	-14√	-26√	-39√	-62√
No	2√	2√	2√	6√	8√	8√
Mean	-.80√	-.85√	-.70√	-.43√	-.49√	-.78√

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Grouping of H, I, and K Stars. −0°.−30°.
6h.−7h.

6.0	6.5	7.0	7.5
1 1 R*	. 9 .		
4 3 7	(13) F .		
(10) 0 3	6 4 7		
. 2 4	1 3 .		
0 2 9	(15) 9 (11)		
7 8 (11)			
0 4 5			
5 4 .			
4 7 9			
2 3 7			
(10) 4 .			
5 0 3			
var. 3 R 0			
0 2 .			
4 4 6			
8 1 1			
(10) 3 8			
5 6 9			

30	11	0
45	43	82
−15√	−32√	−82√
16√	17√	13√
−.09√	−.19√	−.63√

13	12	0
22	13	18
−9√	−1√	−18√
4√	4√	2√
−.22√	−.02√	−.90√

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Grouping of H, I, and K Stars. -0° - -30°

8h. - 9h.

3.0	3.5	4.0	4.5	5.0	5.5
		(2 2)(2 1)(2 2)	4 3 7	3 1 7	
				3 0 6	
				4 1 6	
				7 5 6	
				(10)(11)	
				1 1 3	
				1 1 5	
				5 3 6	
				7 3 4	
				(13)(14)(11)	
				4 (14)(11)	

Σ+	0	0	0	0	0	0	2	0	0
Σ−	22	21	22	4	3	7	48	53	76
Dif.	-22	-21	-22	-4	-3	7.	-46	-53	76
No.	1	1	1	1	1	1	10	11	11
Mean.	-2.20	-2.10	-2.20	-.40	-.30	-.70	-.46	-.48	-.69

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Grouping of H, I, and K Stars. −0° − −30°.

8h. − 9h.

6.0	6.5	7.0	7.5
4 2 6	3 4 5		
2 1 6	(10) F.		
2 5 7	1 6 (10)		
4 5 8	8 7.		
.70			
13.			
4 4 2			
(10) 4 8			
.68			
6 5 8			
87.			

12	22	0
29	27	53
−14√	−5√	−53√
9√	11√	9√
−.19√	−.05√	−.59√

19	7	0
3	10	15
+16√	−3√	−15√
4√	3√	2√
+.40√	−.10√	−.75√

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Grouping of H, I, and K Stars. −0° − −30°

10h − 11h

3.0	3.5	4.0	4.5	5.0	5.5
			(17)(17)(14)	(14)(15)(10)	(15)(15)(14)
			9 9 8	4 7 6	(14)(10)(13)
					(12) 3 7
					6 3 6
					4 2 5

D6.

*3655

Σ+	0	0	0	0	0	0	12	0	0
Σ−	26	26	22	18	22	16	39	33	45
Dif	−26	−26	−22	−18	−22	−16	−27	−33	−45
No	2	2	2	2	2	2	5	5	5
Mean	−1.30	−1.30	−1.10	−.90	−1.10	−.80	−.54	−.66	−.90

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Grouping of H, I, and K Stars. -0°- -30°
10h.- 11h.

6.0	6.5	7.0	7.5
. 2 5	(14) 7 6	3 3 6	
6 5 6	4 3 .	1 3 .	
8 4 6	3 1 4	7 (12) .	
8 (13) .	7 5 5	4 (10) .	
1 2 .	1 3 .	5 1 .	
4 3 .	(14) (12) (16)	1 F .	
. 4 5	3 . .		
1 1 4	8 3 .		
	. 2 .		
	. 4 .		
	(13) F .		
	. 4 .		
	8 3 .		
	. (12) .		
	. 3 .		
	2 2 .		
	1 0 .		
	1 3 .		
	5 F .		
	4 F .		
	3 3 .		
	. 2 .		
	4 6 .		
	5 F .		
	3 0 .		

13	18	0
15	16	26
-2 ✓	+2 ✓	-26 ✓
6 ✓	8 ✓	5 ✓
-.03 ✓	+.02 ✓	-.52 ✓

63	69	0
48	29	31
+15 ✓	+40 ✓	-31 ✓
23 ✓	27 ✓	5 ✓
+.07 ✓	+.15 ✓	-.62 ✓

12	23	0
9	6	6
+3 ✓	+17 ✓	-6 ✓
6 ✓	5 ✓	1 ✓
+.05 ✓	+.34 ✓	-.60 ✓

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Grouping of H, I, and K Stars. -0° - -30°
12h - 13h

3.0	3.5	4.0	4.5	5.0	5.5
		(22)(16)(14)	(21)(13)(15)		7 0 3
			(13)(14)(12)		6 4 7
					6 3 8
					3 3 5

Σ+	0	0	0	0	0	0	0	0
Σ-	22	16	14	34	27	27	22	10	25
Dif	-22	-16	-14	-34	-27	-27	-22	-10	-25
No	1	1	1	2	2	2	4	4	4
Mean	-2.20	-1.60	-1.40	-1.70	-1.35	-1.35	-.55	-.25	-.62

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Grouping of H, I, and K Stars. −0° − −30°
12h. − 13h.

6.0	6.5	7.0	7.5
. 1 2	1 3 0	0 F.	
2 4 8	5 5.	8 F.	
7 3 3	8 3.	7 F.	
(11) 8 (10)	2 1 2	4 2 1	
2 1 2	1 3.	(13) F.	
1 3 6	2 0.	(14) F.	
3 8 (10)	5 F.	8 7 7	
2 2 5	. 6.		
5 2 1	3 F.		
2 4 7	1 1.		
	6 (11).		
	1 3.		
	. 3 4.		
	(10) 8 8		
	6 4 7		
	2 2 5		
	(10) 6 (10)		
	7 3 5		

5	0	0
30	36	54
−25√	−36√	−54√
9√	10√	10√
−.28	−.36	−.54

31	35	4
39	27	37
−8√	+8√	−33√
16√	16√	7√
−.05	+.05	−.47

46	2	0
8	7	8
+38√	−5√	−8√
7√	2√	2√
+.54	−.25	−.40

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Grouping of H, I, and K Stars. −0° - −30°

14h - 15h

3.0	3.5	4.0	4.5	5.0	5.5
				(12)(13)	(14)(12)(11)
				8 4 8	(11) 3 4
				(12)(12)	6 2 4
				3 3 8	45.
					.05
					(12) 9.

Σ+	0	0	0	16	16	0
Σ−	11	31	41	31	15	24
Dif	−11	−31	−41	−15	+1	−24
No	2	4	4	5	6	4
Mean	−.55	−.78	−1.02	−.30	+.02	−.60

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Grouping of K, I, and K Stars. −0° − −30°

14h − 15h

6.0	6.5	7.0	7.5
. 2 2	3 1 3		
7 3 7	7 5 5		
. 3 6	3 F.		
. 2 3	7 F.		
. (11) 7	4 4.		
5 4.	0 1 2		
6 4 5	. 5 6		
1 1 1	6 3 5		
0 2.	(10) 8 7		
5 8.	3 3.		
5 7.	7 F.		
1 2.	5 2.		
0 2.			
9 9.			
5 0 2			
1 0 1			
. 2 6			
5 7.			
0 6.			
5 3 8			

37 49 0
20 29 50
+17v +20v −50v
15v 20v 11v
+.11v +.10v −.45v

26 6 0
29 26 28
−31v −20v −28v
11v 9v 6v
−.03v −.22v −.47v

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Grouping of H, I, and K Stars, −0° – −30°
16h – 17h

3.0	3.5	4.0	4.5	5.0	5.5
			(11)(11)(10)	2 4 6	3 7 7
			6 7 7	0 4 6	(14) F.
					. (13).
					4 2 2
					. 6 0
					1 1 1
					(11)(13).
					3 (11).
					4 2 1
					. 5 6
					(. R 6) var.

D6.

*7024

Σ+	0	0	0	0	0	0	33	52	0
Σ−	17	20	19	2	8	12	7	8	17
Dif	−17	−20	−19	−2	−8	−12	+26	+44	−17
No	2	2	2	2	2	2	7	9	6
Mean	−.85	−1.00	−.95	−.10	−.40	−.60	+.37	+.49	−.28

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Grouping of H, I, and K Stars. -0° - -30°.

16h. - 17h.

6.0	6.5	7.0	7.5
H 9 5	. 4 .		
2 2 5	3 1 .		
4 2 1	. 1 .		
6 4 7	0 2 .		
7 7 .	2 0 2		
0 3 8	3 2 .		
(16) 8 9	2 7 8		
. R* 7	0 5 .		
	(13) 4 .		

13	18	5
26	17	37
-13	+1	-32
7	7	7
-.19	+.01	-.46

16	16	0
7	10	10
+9	+6	-10
7	9	2
+.13	+.07	-.50

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Grouping of K, I, and K Stars. -0° - -30°
18h - 19h

3.0	3.5	4.0	4.5	5.0	5.5
			(16)(11)(12)	. 5 1	. 2 7
			. (18)(14)	4 2 1	8 9 .
			. 9 (10)	8 (15)(10)	3 3 4
				9 (14)(14)	4 6 6
				5 (14)(12)	6 5 4
				8 (12)(11)	4 2 3
					. 3 6

Σ+	0	0	0	4	7	1	18	9	0
Σ−	16	38	36	30	55	48	7	21	32
Dif	-16	-38	-36	-26	-48	-47	+11	-12	-32
No	1	3	3	5	6	6	5	7	6
Mean	-1.60	-1.27	-1.20	-.52	-.80	-.78	+.22	-.17	-.53

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Grouping of H, I, and K Stars. -0° - -30°
18h - 19h

6.0	6.5	7.0	7.5
. (10) (14)	. 0 2	5 4 7	
5 8 (10)	7 2 7	7 5 5	
. (10) .	7 9 .	1 3 .	
3 3 6	. 2 2	0 3 .	
6 2 6	7 7 6	0 4 8	
. 8 .	. 6 .	. 5 5	
4 7 8	. 7 8	1 2 .	
8 7 .		4 F .	
2 4 4		5 F .	
var. var. R R 4		7 5 .	
8 6 6		4 F .	
. 6 .		(14) F .	
0 2 2		5 F .	
7 1 3		6 8 .	
9 5 8		6 4 .	
. 4 .		3 F .	
3 7 .		(12) (12) .	
2 3 3		6 5 .	
. 3 .		1 2 2	
(11) F .		5 F .	
5 2 9		. (13) .	
(11) 5 7		(10) 7 .	
. 2 1			
2 1 3			
(13) (10) .			

46	73	3
74	76	114
-28✓	-3✓	-11✓
20✓	30✓	20✓
-.14✓	-.01✓	-.56✓

89	61	0
13	21	27
+76✓	+40✓	-27✓
20✓	15✓	5✓
+.38✓	+.27✓	-.54✓

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Grouping of H, I, and K Stars. -0° - -30°

20h - 21h

3.0	3.5	4.0	4.5	5.0	5.5
		7 (16)(11)		(11)(13)(11)	9 7 7
				(11)(10)	7 9 (10)
				7 3 5	5 (10)(11)
					(12)(10)(10)
					3 3 6
					. 2 .

Σ+	0	0	0	7	0	0	0	2	0
Σ-	7	16	11	11	27	26	36	41	46
Dif	-7	-16	-11	-4	-27	-26	-36	-39	-46
No	1	1	1	2	3	3	5	6	5
Mean	-.70	-1.60	-1.10	-.26	-.90	-.87	-.72	-.65	-.92

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Grouping of H, I, and K Stars. −0°- −30°.
20h - 21h

6.0 . 6.5 . 7.0 7.5

+21
6 5 8
3 1 0
6 6 9
(11)(10).
. 9 .

18 22 1
12 11 19
+6✓ +11✓ −16✓
5✓ 6✓ 4✓
+.12✓ +.18✓ −.40✓

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Grouping of H, I, and K Stars. -0°- -30°

22h.- 23h.

3.0	3.5	4.0	4.5	5.0	5.5
			(16)(17)(12)	. 8 4	3 10 0
				5 (11)(13)	(14)(11)(11)
				6 (12)(10)	4 (13) 9
					3 1 4
					1 (12)(12)
					(12) 5 7

Σ+	0	0	0	0	0	0	3	1	0
Σ−	16	17	12	11	31	27	34	42	43
Dif.	-16	-17	-12	-11	-31	-27	-31	-41	-43
No.	1	1	1	2	3	3	6	6	6
Mean.	-1.60	-1.70	-1.20	-.55	-1.03	-.90	-.52	-.68	-.72

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Grouping of H, I, and K Stars. −0° - −30°
22h. - 23h.

6.0	6.5	7.0	7.5
2 2 .	7 2 3		
1 5 2	7 3 .		
5 2 5	4 3 .		
. 9 .	(11)(12) .		
0 2 0	1 2 2		
3 1 .	1 2 5		
4 5 7	0 1 .		
7 8 5	9 (11)(12)		
8 (10)(11)	8 3 .		
8 8 7	3 2 2		
3 1 .	2 1 2		
2 1 0	9 8 6		
3 8 .	8 (10)(11)		
. 0 1			
9 4 5			
6 2 4			
2 3 2			
2 2 4			
(16)(11) .			
1 5 2			
8 6 .			
(12)(18)(16)			
0 3 4			

34	45	2
68	71	73
−34✓	−26✓	−71✓
21✓	23✓	16✓
−.16✓	−.11✓	−.44✓

31	24	0
39	36	43
−8✓	−12✓	−43✓
13✓	13✓	8✓
−.06✓	−.09✓	−.54✓

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Grouping of H, I, and K. Stars. +0° - +29° 59'

0h - 1h.

3.0	3.5	4.0	4.5	5.0	5.5
				(10) . (13)	1 2 1
					8 . 7
					(14) . 9
					(11)(12)(10)
					9 . 8
					(14)(14)(11)
					(15) . (10)
					(10) . 8
					(11) . (11)
					(10)(12)(11)
					9 7 7

Σ+	0	. 0	1	2	1
Σ−	10	. 13	111	45	92
Dif.	-10	. -13	-110	-43	-91
No.	11	. 11	111	55	11
Mean.	-1.00	. -1.30	-1.00	-.86	-.83

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Grouping of H, I, and K Stars. +0° - +29° 59'.

0 h. - 1 h.

6.0	6.5	7.0	7.5
(11) 9 (12)	(11) . . 4 0 .	4 F . 9 . .	
1 2 4	3 . 4 (14) . 6	(12) F . 2 . .	
0 0 1	6 . 0 2 . .	3 0 . 1 . .	
9 9 7	1 . 1 9 . 8	2 9 . 0 . .	
9 (14) (12)	3 3 . 6 5 0	6 4 . 3 . .	
5 . 1	2 (11) 8 4 . .	2 2 .	
	3 6 7 4 . .	6 . .	
	(10) (10) (10) 0 . 4	7 . .	
	6 . 1 0 . .	8 . 4	
	8 . 8 4 1 .	1 1 .	
	4 . .	3 . .	
	6 . 1	2 . .	
	3 . .	6 . .	
	8 . 8	6 . .	
	6 . .	6 . .	
	(12) . 7	2 . .	
	5 1 .	3 . .	
	5 5 5	0 . .	
	8 . .	5 0 .	
	2 2 .	0 . .	
	6 2 2	5 . .	
	7 3 .	8 . 7	
	6 7 2	4 6 .	
	5 . 6	3 . .	
	6 5 3	2 . .	
5 0 0	68 3 1	85 0 0	
30 34 37	121 58 90	36 22 11	
-25✓ -34✓ -31✓	-53✓ -55✓ -69✓	+49✓ -22✓ -11✓	
6✓ 5✓ 6✓	35✓ 14✓ 20✓	30✓ 7✓ 2✓	
-42✓ -68✓ -62✓	-.15✓ -.39✓ -.44✓	+.16✓ -.31✓ -.55✓	

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Grouping of H, I, and K Stars. +0° - +29° 59'

2 h. - 3 h.

3.0	3.5	4.0	4.5	5.0	5.5
		(21) . (21)		5 8 7	3 5 7
				(10) (14) (10)	5 . (11)
				(11) 8 8	(11) . 8
				2 . 8	

Σ+	0	.	0	0	0	0	0	0
Σ-	21	.	21	28	30	33	19	5	26
Dif	-21✓	.	-21✓	-28✓	-30✓	-33✓	-16✓	-5✓	-26✓
No.	1✓	.	1✓	4✓	3✓	4✓	3✓	1✓	3✓
Means	-2.10✓	.	-2.10✓	-.70	-1.00✓	-.82✓	-.63	-.50	-.87✓

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Grouping of H, I, and K, Stars. +0° - +29° 59'.

2h - 3h

6.0	6.5	7.0	7.5
2 . 3	8 . .	3 . .	
6 . .	4 . .	5 0 .	
7 5 7	4 . .	3 . (12)	
6 1 0	3 . 1	2 . 2	
(11) 4 .	6 . .		
(10) 2 3	0 . .		
6 . (11)	1 . .		
(11) . 9	8 . .		
1 2 0	1 0 .		
2 . 2	1 . .		
	6 . ,		
	(11) F .		
	5 6 3		
	0 9 4		
	(14) F .		
	6 . 5		
	4 . .		
	(12) 7 .		
	4 . 6		
	(11) F .		
	1 0 .		
	4 . 5		
	1 . .		
	0 1 8		
	6 . 7		

25	7	0
37	7	35
-12✓	0✓	-35✓
10✓	5✓	8✓
-.12✓	.00✓	-.44✓

104	8	0
40	18	48
+64✓	-10✓	-48✓
31✓	8✓	10✓
+.21✓	-.12✓	-.48✓

10	0	0
3	0	14
+7✓	0✓	-14✓
4✓	1✓	2✓
+.18✓	.00✓	-.70✓

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Grouping of H, I, and K Stars. +0° - +29° 59'

4h - 5h

3.0	3.5	4.0	4.5	5.0	5.5
		(28) . (29)		(10) . 9	1 . 5
				(13) . (10)	5 . 6
				(11) . (11)	6 . (13)
				1 . 7	6 7 7
					8 5 (11)
					7 8 9
					3 . 5

Σ+	0	·	0	1	·	0	0	0 0
Σ−	28	·	29	34	·	37	36	22 58
Dif.	-28✓	·	-29✓	-33✓	·	-37✓	-36✓	-22✓ -58✓
No.	1✓	·	1✓	4✓	·	4✓	7✓	3✓ 7✓
Mean.	-2.80	·	-2.90✓	-.82✓	·	-.92✓	-.51✓	-.73✓ -.83✓

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Grouping of H, I, and K Stars. +0° - +29° 59'.

4h - 5h

6.0	6.5	7.0	7.5
6 . 1	4 2 2	1 2 .	
3 . 1	1 4 6	(13) F.	
0 . 4	(13) . .		
9 . .	3 1 .		
1 2 1	(13) . (10)		
0 . 2	0 0 .		
0 4 1	3 1 .		
3 . 6	5 . .		
(16) . (14)	1 . .		
2 6 6	(13) . 9		
(15) 2 .	7 4 8		
1 4 9	8 . 6		
3 3 1	7 . .		
4 1 4	7 . (11)		
2 0 5	1 . .		
	3 1 5		
	3 1 6		
	4 1 4		
	4 1 .		
	(16) F.		

35	12	5
30	10	50
+5✓	+2✓	-45✓
15	8✓	15✓
+.03✓	+.02✓	-.35✓

49	4	2
64	12	65
-18✓	-8✓	-63✓
20✓	10✓	10✓
-.09✓	-.08✓	-.63✓

14	0	.
0	2	.
+14✓	-2✓	.
2✓	1✓	.
+.70✓	-.20✓	.

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Grouping of H, I and K Stars. +0° - +29° 59'
6h - 7h

3.0	3.5	4.0	4.5	5.0	5.5
			(15) . (15)	7 . 6	5 4 (10)
			7 . (10)	neu. R . 7	6 3 7
					2 . 3
					7 . 7
					3 1 7
					4 3 8
					5 . (14)
					6 7 (10)
					3 . 7

Lb.

3587 } 6.43 R
3588 } R5 ✓

3808 } 6.45 RF.
3809 } RF. ✓

4322 B R.R ✓

Σ+	0	0		0	0		2	0	0
Σ−	24	25		7	6		39	18	73
Dif.	-24✓	-25✓		-7✓	-6✓		-37✓	-18✓	-73✓
No.	2✓	2✓		11	1✓		91	5✓	9✓
Mean	-1.20✓	-1.25✓		-.70✓	-.60✓		-.41✓	-.36✓	-.81✓

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Grouping of H, I and K Stars. +0° - +29° 59'.
6h. - 7h.

var.	6.0	6.5	7.0	7.5
11 R 1		(18) F.	4. .	
1 1 6		5 2.		
7 7 (10)		2 1 5		
(11). 9		0. .		
3 3.		7. .		
3. .		2. .		
0. (10)		5. 6		
8. 7		(16). .		
9 9 9		7. .		
2. 4		8. 9		
(12). (12)		0. .		
4. .		(10). .		
2. 3		8. (10)		
1 1 6		4. .		
3. 1		0. .		
		3. 0		
		0. .		
		1. 5		
		1. .		
		43.		
		(00). .		

14	5	0
52	16	77
-38v	-11v	-77v
14v	5v	11v
-.27v	-.22v	-.70v

85	5	0
26	1	35
+59v	+4v	-35v
21v	3v	6v
+.28v	+.13v	-.58v

4	.	.
0	.	.
+4v	.	.
1v	.	.
+.40v	.	.

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Grouping of H. I, and K Stars. +0° - +29° 59'
8h - 9h

3.0	3.5	4.0	4.5	5.0	5.5
			(14) (13) (11)	(14) (16) (13)	8 8 (13)
			(11) . (12)	6 . 6	8 (14) (10)
					1 3 1
					(14) . (10)
					7 6 7
					(14) . (13)

Σ+	0	0	0	0	0	0	0	0	0
Σ−	25	13	23	20	16	19	52	31	56
Dif.	-25	-13	-23	-20	-16	-19	-52	-31	-56
No	2	1	2	2	1	2	6	4	6
Mean	-1.25	-1.30	-1.15	-1.00	-1.60	-.95	-.87	-.78	-.93

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Grouping of H, I, and K stars. +0° - +29° 59'.
8h. - 9h.

6.0	6.5	7.0	7.5
6 1 7	7 1 .	8 . 6	
(10) 5 2	5 . 6	0 . .	
1 . 1	3 . 4	9 . (11)	
5 . 8	9 . (10)	7 . 8	
9 4 .	3 . .	3 . .	
2 3 1	1 . .	4 . .	
5 2 .	1 . .	2 . .	
(12) . 8	7 . .	0 . .	
3 . 5	4 . .	4 . .	
(13) . (14)	3 . .	8 . .	
7 6 8	8 . .	2 . .	
1 . 3	4 8 (10)	(11) . .	
2 6 (10)	(11) . .	4 . .	
	1 . .	5 . .	
	3 . 6		
	1 2 0		

25	14	2
51	13	65
-26✓	+1✓	-63✓
13✓	7✓	11✓
-.20✓	+.01✓	-.57✓

37	3	0
34	8	36
+3✓	-5✓	-36✓
16✓	3✓	6✓
+.02✓	-.17✓	-.60✓

33	0
34	25
-1✓	-25✓
14✓	3✓
-.01✓	-.83✓

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Grouping of H, I, and K Stars. +0° - +29° 59'
10h - 11h.

3.0 . 3.5 . 4.0 . 4.5 . 5.0 . 5.5⁻

± 1 3
(11) (14) (12)

D6.

5331 } 3.72(17).(15) ✓
5332 }

Σ+	0	0	0
Σ−	15	15	15
Dif.	−15v	−15v	−15 ✓
No.	2v	2v	2v
Mean	−.75v	−.75v	−.75v

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1882phae.proj..872F

Grouping of K, I, and K Stars, +0° - +29° 59'.

10h. - 11h

6.0	6.5	7.0	7.5
(10) (15) (14)	1 2 4	8 8 6	
3 5 8	8 . 6	2 . .	
3 . 2	8 . .	7 . .	
3 2 4	3 . 6	2 . .	
(15) 7 (10)	(11) 1 .	0 3 .	
8 1 4	5 5 7	3 . .	
5 0 4	1 . .	(11) . .	
2 2 7	0 . .	0 . .	
0 . 2	(13) . .	(12) . .	
4 . 4	4 . 4	(10) . .	
4 . 4	4 . .	2 . .	
	8 6 9	(10) . .	
	0 2 .	3 . .	
	9 4 .	9 . .	
	3 1 6	0 . .	
	(12) 2 2	1 . .	
	2 . .	1 . .	
	8 3 .	6 3 .	
	2 2 .	6 . .	
	(10) F .	(14) F .	
	3 . .	4 . .	
		8 . .	

11	1	0	74	10	0	102	3	0
46	31	63	36	18	44	17	11	6
-35✓	-30✓	-63✓	+38✓	-8✓	-44✓	+8✓	-8✓	-6✓
11✓	7✓	11✓	211	10✓	8✓	22✓	3✓	1✓
-.32✓	-.43✓	-.57✓	+.18✓	-.08✓	-.55✓	+.39✓	-.27✓	-.60✓

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Grouping of H, I, and K Stars. +0° - +29° 59'
12h - 13h.

3.0	3.5	4.0	4.5	5.0	5.5
.			(17) . (17)	8 8 7	2 . 3
					(11) 5 7
					(14) 3 7

26.

~~* 6375~~

6580 } 6.42 R.. ↓
6581 } R..

Σ+	0	.	0	0	0	0	0	0	0
Σ-	17	:	17	8	8	7	27	8	17
Dif.	-17✓	:	-17✓	-8✓	-8✓	-7✓	-27✓	-8✓	-17✓
No.	1✓	.	1✓	1✓	1✓	1✓	3✓	2✓	3✓
Mean.	-1.70✓	.	-1.70✓	-.80✓	-.80✓	-.70✓	-.90✓	-.40✓	-.57✓

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Grouping of H, I, and K Stars. +0° - +29° 59'. 12h - 13h.

6.0	6.5	7.0	7.5
2 . 6	1 1 4	1 . . 3 . .	
(12) . 4	8 . 6	(11) F . 4 . 6	
6 3 6	(11) F .	6 . . 3 . .	
(11) . (11)	6 . 4	(10) . (12) 1 . .	
2 1 1	7 . (10)	1 . . 0 . .	
7 . 8	0 3 5	3 . .	
7 4 6	(13) 9 (12)	6 . .	
3 2 3	0 . .	1 . .	
9 . (10)	9 . 6	4 . .	
(11) . (10)	(13) . (15)	5 . .	
	1 2 .	4 1 .	
	4 2 3	5 . .	
	5 . 8	8 0 .	
	2 . R*	4 . .	
	1 5 8	2 . .	
	3 7 (10)	2 . .	
	9 . .	2 . .	
	6 . 3	3 . .	
	3 . .	5 . 0	
	6 . 7	1 1 .	
	8 . 5	2 . .	
	4 . .	3 . .	
	4 . 7	(17) 0 .	
		3 1 .	
		2 . .	

0 0 0	32 2 0	69 0 0
70 10 65	92 27 113	53 3 18
-70✓ -10✓ -65✓	-60✓ -25✓ -113✓	+16✓ -3✓ -18✓
10✓ 4✓ 10✓	23✓ 7✓ 16✓	30✓ 5✓ 3✓
-.70✓ -.25✓ -.65✓	-.26✓ -.36✓ -.71✓	+.05✓ -.06✓ -.60✓

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Grouping of H, I, and K Stars. +0° - +29° 59'
$14^h - 15^h$

3.0 . 3.5 . 4.0 . 4.5 . 5.0 . 5.5

(20)(16)(15)

(11) . 8
5 3 6
9 . (11)
2 1 4
(16) . (15)

Db.
6676 B R.R ✓

Σ+	0	0	0
Σ−	20	16	15
Dif.	−20✓	−16✓	−15✓
No.	1✓	1✓	1✓
Mean	−2.00✓	−1.60✓	−1.50✓

2	0	0
43	4	44
−41✓	−4✓	−44✓
5✓	2✓	5✓
−.82✓	−.20✓	−.88✓

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Grouping of H, I, and K Stars. +0° - +29° 59'.

14h - 15h.

6.0	6.5	7.0	7.5
7 2 8	5 . .	5 1 .	
7 . (11)	3 . .	9 . .	
3 4 8	6 . .	7 . .	
9 2 6	(11) . 4		
1 1 5	3 . .		
(14) . (12)	1 . .		
6 1 5	9 . .		
1 0 5	3 . 6		
(14) . 7	1 . .		
(13) 8 .	0 2 .		
9 5 3	1 . .		
4 . 5	8 5 .		
1 2 4	3 . 9		
(11) . (13)	3 . 6		
(11) . 8	3 . .		
6 5 .	6 . 3		
	5 . 4		
	5 . 7		
	5 . 7		

34	20	3
83	10	97
-49✓	+10✓	-94✓
16✓	10✓	14✓
-.31✓	+.10✓	-.67✓

32	5	0
49	2	46
-17✓	+3✓	-46✓
19✓	2✓	8✓
-.09✓	+.15✓	-.58✓

21	0	.
0	1	.
+21✓	-1✓	.
3✓	1✓	.
+.70✓	-.10✓	.

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Grouping of H, I, and K Stars. +0° - +29° 59'
16h - 17h

3.0 . 3.5 . 4.0 . 4.5 . 5.0 . 5.5

(17) . (14) (16)(12)(12) 8 . 7
(12)(14)(13) 9 . 7

Dec.

7225 } 5.78 R.R
7226 } R.R

Σ+	0	0	0		0	0	0		0	.	0
Σ−	29	14	27		25	12	21		8	.	9 ✓
Dif.	−29✓	−14	−27✓		−25✓	−12✓	−21✓		−8✓	.	−9✓
No.	2✓	1✓	2✓		2✓	1✓	2✓		1✓	.	1✓
Mean.	−1.45✓		−1.40✓	−1.35✓	−1.25✓		−1.20✓	−1.05✓	−.80✓	.	−.90✓

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Grouping of H, I, and K Stars. +0°-+29°59'.

16h-17h.

6.0	6.5	7.0	7.5
1 1 2	3..	4..	
0.(13)	7.8	0..	
8.(10)	1.3	4..	
4 1 5	2..	8.7	
9.(10)	5 5 (10)	3..	
(20)(15)(16)	1..	2..	
9.(16)	6..	2..	
3.6	(17) 5 (10)	3..	
(10) 6 (14)	8.9	(12)..	
	2..	(10)..	
	0 1 4	5..	
	6.8		
	(17)(10)(12)		
	8.7		
	(10).(14)		
	(11) 7 (10)		
	(13).8		
	6.5		
	4.7		
	9..		
	(16).8		
	5..		

0 1 0	24 0 0	39 . 0
64 22 92	133 28 123	14 . 7
-64 -21✓ -92✓	-109✓ -28✓ -123✓	+25✓ . -7✓
9 1 4✓ 9✓	22✓ 5✓ 15✓	11✓ . 1✓
-.711 -.52✓ -1.02✓	-.50✓ -.56✓ -.82✓	+.23✓ . -.70✓

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Grouping of H, I, and K Stars. +0°- +29°59'
18h - 19h.

3.0 .	3.5 .	4.0 .	4.5 .	5.0 .	5.5
			(17) . (19)	(11) 9 (10)	5 5 7
				8 9 8	2 2 7
					(15) . (13)
					4 . 8
					(13) . (11)
					(15) . (17)

Σ+	0	0		0	0	0	0	0	0
Σ−	17	19		19	18	18	54	7	63
Dif.	-17	-19		-19	-18	-18	-54	-7	-63
Ns	1	1		2	2	2	6	2	6
Mean	-1.70	-1.90		-.95	-.90	-.90	-.90	-.35	-1.05

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1882phae.proj..872F

Grouping of H, I and K Stars. +0°–+29° 59'.

18h. 19h.

6.0	6.5	7.0	7.5
6 . 6	(11) . 9	2 . .	
9 . 6	± 6 7	1 . .	
6 . (12)	3 . .	3 . .	
9 8 .	(14) F .	(14) . .	
1 . 3	7 7 8 .	5 . .	
9 . 9	4 . .	(13) . .	
7 . .	0 . 8	(12) . .	
2 2 3	± 3 ±	9 . .	
8 6 .	(14) . .	1 . .	
9 . .	9 7 .	9 . .	
2 . 1	6 . 6	2 . .	
(12) . .	1 . .	8 . 2	
(11) ± 7	9 3 .		
5 ± 7	3 4 .		
9 . 7	(10) . .		
1 . 2	7 . .		
1 0 2	6 . .		
(10) . 6	1 5 .		
2 6 3	3 0 .		
6 5 9	4 F .		
	2 3 8		
	(13) . .		
	3 . .		
	8 . .		
	1 . .		

46	20	0
79	15	83
−33 ✓	+5 ✓	−83 ✓
20 ✓	8 ✓	15 ✓
−.16 ✓	+.06 ✓	−.55 ✓

133	19	0
44	19 ✓	56
+89 ✓	0 ✓	−56 ✓
30 ✓	9 ✓	8 ✓
+.30 ✓	.00 ✓	−.70 ✓

67	0
12	2
+55 ✓	−2 ✓
12 ✓	1 ✓
+.46 ✓	−.20 ✓

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1882phae.proj..872F

Grouping of H, I, and K Stars. +0° - +29°.9'
20h - 21h

3.0 . 3.5 . 4.0 . 4.5 . 5.0 . 5.5

(14) . 9
(21)(21)(20)

7 . (10)
9 . (10)
2 3 2
(15) 7 (11)

Dec.

9238 } 484(13).6 ↓
9239 }

Σ+	0	0	0		2	3	2	
Σ−	35	21	29		31	7	31	
Dif.	−35✓	−21✓	−29✓		−29✓	−4✓	−29✓	
No.	2✓	1✓	2✓		4✓	2✓	4✓	
Mean.	−1.75✓	−2.10✓	−1.45✓		−.72✓	−.20✓	−.72✓	

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Grouping of H, I, and K Stars. +0°-+29°.5 9'.

$20^h - 21^h$.

6.0	6.5	7.0	7.5
5 . 6	9 . .		
7 . 7	8 . .		
(12) . (12)	(13) . .		
2 . 7	(15) . .		
5 3 5	5 . .		
5 . (11)	2 2 2		
8 . .	7 . 6		
6 . .	3 . 0		
4 . .	6 . .		
(11) 6 7	4 . .		
2 3 4	9 . .		
3 2 3	(11) . .		
	(10) . (12)		
	8 8 (10)		
	5 . .		
	8 . .		
	2 0 .		
	9 . .		

18	0	0
52	14	62
-34	-14	-62
12	4	9
-.28	-.35	-.69

104	0	0
32	10	30
+72	-10	-30
18	3	5
+.40	-.33	-.60

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1882phae.proj..872F

Grouping of K, I, and K Stars. +0° - +29° 59'
22h. - 23h.

3.0 . 3.5 . 4.0 . 4.5 . 5.0 . 5.5

8 . (10) (12) (14) (12) (12) . .
(14) . (11)
6 (11) 9

Σ+	0	·	0	0	0	0	12	0	0
Σ−	8	·	10	12	14	12	20	11	20
Dif.	−8✓	·	−10✓	−12✓	−14✓	−12✓	−8✓	−11✓	−20✓
No.	1✓	·	1✓	1✓	1✓	1✓	3✓	1✓	2✓
Mean	−.80✓	·	−1.00✓	−1.20✓	−1.40✓	−1.20✓	−.27✓	−1.10✓	−1.00✓

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Grouping of H, I, and K Stars. +0° - +29° 59'.

22h. - 23h.

6.0	6.5	7.0	7.5
9 6 (11)	3 . 5 1 . .	(12) . .	
(17) 8 .	8 6 . (13)(10) 9	(14) . .	
9 . .	(12) 7 . 0 . .	(10) . .	
(10) 8 8	2 . . 5 . .	9 . 2	
(12) . 6	7 . . 8 . 4	(10) . .	
1 7 5	4 . 5 6 . 5	3 . 0	
9 (16) (15)	2 . . 6 3 .	2 . .	
1 3 4	9 . . (13) . .	(13) . .	
3 4 7	0 . 3 6 . 0	1 . .	
(10) (11) (12)	3 . . 4 . .		
6 : 9	3 . .		
(17) . (14)	8 . .		
	1 . .		
	(13) F .		
	8 . .		
	7 6 7		
	(11) . .		
	1 . .		
	(10) F .		
	2 1 .		
	1 . 1		
	3 4 .		
	3 . 9		
	(14) . .		
	4 . 0		

27	8	0
74	55	91
-50✓	-47✓	-91✓
12✓	8✓	10✓
-.42✓	-.59✓	-.91✓

134	16	0
67	21	48
+67✓	-5✓	-48✓
35✓	7✓	11✓
+.19✓	-.07✓	-.44✓

61	:	0
13	:	2
+48✓	:	-2✓
9✓	:	2✓
+.53✓	:	-.10✓

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Grouping of H. I. and K Stars. +30.0 – +61°2'
0h.0 – 2h. 39.9

3.0	3.5	4.0	4.5	5.0	5.5
		var. R . (17)	(24) . (24)	(15) . (14)	6 . 5
				(15) . (14)	6 . 7
					1 . 4
					4 . 7
					7 . 6

Dlc. No.

~~626 R~~ . . . .

1142 } 4.05 (20) . (19) ↓
1143 }

Z+	0	.	0	0	.	0	5 . 0
Z−	24	.	24	30	.	28	19 . 29
Dif	−24✓	.	−24✓	−30✓	.	−28✓	−14✓ . −29✓
No.	1✓	.	1✓	2✓	.	2✓	5✓ . 5✓
Mean	−2.40✓	.	−2.40✓	−1.50✓	.	−1.40✓	−.28✓ . −.58✓

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1882phae.proj..872F

Grouping of H, I, and K Stars. +30°.0 – +61°.2'.
0h.m.0 – 2h.39m.9.

6.0	6.5	7.0	7.5
0 . 2	(10) . 2	2 . .	(10) . . 1 . . 2 . .
3 . .	4 . 4	3 . 8	(12) . . 0 . . 3 . .
3 . 5	0 . .	3 . .	4 . . 1 . . 8 . .
4 . 3	3 . 1	4 . .	(10) . . 8 . .
3 . .	1 . .	6 . 2	4 . . (10) . .
7 . (10)	1 . .	1 . 3	(10) . . (11) . .
4 . (10)	0 . .	1 . .	0 . . 2 . .
2 . 4	(11) . (11)	7 . .	8 . . 0 . .
4 . .	3 . 7	3 . .	6 . . 1 . .
4 . .	9 . .	1 . .	3 . . 7 . .
1 . 6	4 . .	3 . .	1 . . (10) . .
9 . (10)	5 . .	5 . 5	2 . . (13) . .
2 . 5	(14) . .	4 . 3	2 . . 5 . .
(13) . (13)	3 . .		5 . .
5 . 5	2 . 0		1 . .
5 . 8	5 . 1		2 . .
2 . 3	2 . .		6 . .
1 . .	5 . .		4 . .
	1 . .		1 . .
	0 . 2		5 . .
	6 . .		1 . .
	9 . .		2 . .
	4 . 8		1 . .
	7 . 7		1 . .
	7 . 8		2 . .
17 . 0	81 . 5	148 . .	11 . .
55 . 84	78 . 67	24 . .	2 . .
−38✓ . −84✓	+3✓ . −62✓	+124✓ . .	+9✓ . .
18✓ . 13✓	38✓ . 16✓	38✓ . .	3✓ . .
−.21✓ . −.65✓	+.01✓ . −.39✓	+.33✓ . .	+.30✓ . .

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Grouping of H, I, and K Stars. $+30.0^\circ$ - $+61^\circ 2'$
$2^h 40.0^m$ - $5^h 19.9^m$

3.0	3.5	4.0	4.5	5.0	5.5
				6 . (11)	(19) . (15)
				(10) . (10)	6 . 6
				(19) . (22)	4 . 9
				2 . (10)	(17) . (13)
					6 . 7

Σ+	0	0	0	0
Σ−	37	53	52	50
Dif	-37✓	-53✓	-52✓	-50✓
No.	4✓	4✓	5✓	5✓
Mean	-.92✓	-1.32✓	-1.04✓	-1.00✓

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Grouping of H, I, and K Stars. +30.0 - +61° 2'.
2h 40.0m - 5h 19.9m.

6.0	6.5	7.0	7.5
4 . 8	3 . . 3 . .	3 . .	
0 . 8	6 . . 1 . .	0 . ,	
(11) . (13)	5 . 7 1 . .	(12) . .	
4 . (11)	1 . . (13) . ,	(13) . .	
0 . 1	0 . . 3 . ,	2 . .	
8 . 7	1 . . 1 . ,	7 . .	
(11) . 7	1 . . 2 . .	2 . .	
8 . (14)	1 . . 4 . 4	7 . .	
6 . 6	3 . . 4 . ,	2 . .	
9 . 5	2 . . 4 . .	5 . .	
5 . 8	8 . .	2 . .	
4 . 4	6 . .	9 . (10)	
(10) . (10)	2 . .	3 . .	
6 . 7	3 . .	1 . 7	
	0 . .	3 . .	
	6 . 1	1 . ,	
	6 . 4	1 . .	
	3 . 5	5 . .	
	3 . .		
	4 . 0		
	1 . .		
	9 . 9		
	8 . .		
	5 . .		
	2 . .		

0 . 0	73 . 0	51 . 0
86 . 109	52 . 30	24 . 17
-86✓ . -109✓	+21✓ . -30✓	+24✓ . -17✓
14✓ . 14✓	35✓ . 7✓	18✓ . 2✓
-.61✓ . -.78✓	+.06✓ . -.43✓	+.13 +.14✓ . -.85✓

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Grouping of H, I, and K Stars. +30.0° - +61°2'

~~2h 40m~~ 5h 20.0m - 7h 59.9m

3.0	3.5	4.0	4.5	5.0	5.5
				(12) . (10)	8 . 9
				8 . (10)	3 . 8

Σ+	0 . 0	0 . 0
Σ-	20 . 20	11 . 17
Diff.	-20✓ . -20✓	-11✓ . -17✓
No	2✓ . 2✓	2✓ . 2✓
Mean	-1.00✓ . -1.00✓	-.55✓ . -.85✓

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1882phae.proj..872F

Grouping of Ho, I, and K Stars. +30.0° - +61° 2'
5h. 20.0m. - 7h. 59.9m.

6.0	6.5		7.0	7.5
0 . 7	6 . 6	1 . .	6 . .	
7 . .	2 . .	7 . 7	1 . .	
5 . .	1 . .	(12) . (10)	3 . .	
(10) . .	3 . .	(13) . (12)	0 . .	
2 . .	1 . .	5 . 3	8 . .	
3 . .	6 . (16)	(10) . 7	8 . .	
7 . .	4 . 9	7 . .	2 . .	
1 . .	1 . .	1 . .	6 . .	
(12) . (10)	9 . (12)	1 . .	5 . .	
1 . 1	5 . 6		0 . .	
8 . .	2 . .		1 . .	
(12) . .	0 . .		3 . .	
2 . .	2 . .		8 . (10)	
1 . 6	9 . .		1 . .	
0 . 3	4 . .		0 . .	
0 . 3	4 . 3		4 . .	
(12) . 8	0 . .			
0 . 7	4 . 8			
7 . 9	2 . 4			
8 . (10)	2 . .			
8 . (10)	1 . .			
(11) . 8	4 . .			
8 . 8	5 . (10)			
	4 . 3			
	8 . (10)			
58 . 3	321 . 0		36 . 0	
67 . 87	114 . 126		20 . 10	
-9✓ . -81✓	-82✓ . -126✓		+16✓ . -10✓	
23✓ . 13✓	34✓ . 16✓		16✓ . 1✓	
-.04✓ . -.65✓	-.24✓ . -.79✓		+.10✓ . -1.00✓	

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Grouping of H, I, and K Stars. +30.0′ – +61° 2′
8h. 0m. – 10h. 39.9m.

3.0	3.5	4.0	4.5	5.0	5.5
		. .		(17) . (16)	7 . 7
					6 . 7
				.	7 . 6
				.	(13) . 7

. .
. .
. .

Σ+	0	0	0	0
Σ−	19	16	37	31
Dif.	−19 ✓	−16 ✓	−37 ✓	−31 ✓
No.	1 ✓	1 ✓	4 ✓	4 ✓
Mean.	−1.90 ✓	−1.60 ✓	−.92 ✓	−.78 ✓

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1882phae.proj..872F

Grouping of K, I, and K Stars. +30°0′ – +61°2′.

8h 0.0m – 10h 39.9m

6.0	6.5	7.0	7.5
6 . 6	4 . 6	1 . . 2 . .	8 . . (11) . .
4 . 5	1 . .	4 . . 1 . .	1 . . 7 . .
3 . 6	1 . .	3 . . 7 . 6	7 . . (10) . .
1 . .	6 . 4	(11) . . 6 . 8	8 . 7 0 . .
7 . 5	1 . .	1 . .	7 . . 5 . 6
4 . 2	1 . .	8 . .	1 . . 3 . .
1 . 5	0 . .	3 . .	1 . . 7 . .
4 . 2	1 . 4	(10) . .	7 . . 1 . .
4 . 3	9 . .	(13) . .	2 . . 4 . .
5 . 7	1 . .	1 . .	(16) . . 6 . .
7 . 7	0 . 4	4 . 7	(10) . . 3 . .
	6 . .	2 . .	4 . . 5 . .
	0 . .	(14) . 8	6 . .
	9 . .	5 . .	(13) . .
	(13) . .	6 . .	3 . .
	3 . 3	1 . 5	7 . .
	4 . .	1 . .	7 . .
	1 . .	(14) . 7	6 . .
	4 . .	6 . 7	7 . .
	3 . .	1 . .	5 . .
	(13) . .	6 . .	8 . .
	(11) . .	1 . .	(15) . (11)
	(11) . .	6 . 4	1 . .
	(13) . .	1 . .	3 . .
	(13) . 7	8 . 7	1 . .
8 . 0	177 . 0	176 . 0	
38 . 48	99 . 87	40 . 24	
-30 ✓ . -48 ✓	+78 ✓ . -87 ✓	+136 . -24 ✓	
11 ✓ . 10 ✓	54 ✓ . 15 ✓	37 ✓ . 3 ✓	
-.27′ . -.48′	+.14′ . -.58′	+.37′ . -.80′	

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1882phae.proj..872F

Grouping of H, I, and K Stars. +30° 0′ – +61° 2′
& 10h 40.0m – 13h 19.9m

3.0	3.5	4.0	4.5	5.0	5.5
			(11) . (15)	(10) . (11)	4 . 6
				(18) . (14)	
				7 . (10)	

Db.

5511 } 6.62 R . R ↓
5512 } R . R

6016 } 6.96 R . . ↓
6017 } R . .

Σ+	0	.	0	0	.	0	0	.	0
Σ−	11	.	15	37	.	35	4	.	6
Dif	-11✓	.	-15✓	-37✓	.	-35✓	-4✓	.	-6✓
No.	1✓		1✓	3✓		3✓	1✓		1✓
Mean	-1.10✓	.	-1.50✓	-1.23✓	.	-1.17✓	-.40✓	.	-.60✓

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Grouping of K, I, and K Stars. +30° 0' - +61° 2'

10h. 40m.0 - 13h. 19.9m.

6.0	6.5	7.0	7.5
5 . 8	4 . .	5 . . 3 . .	8 . .
8 . 4	3 . 5	1 . . 1 . 5	0 . .
4 . 7	6 . 7	5 . . (13) . 8	8 . .
0 . 1	1 . .	3 . . 8 . .	6 . .
7 . 7	7 . 7	0 . . 4 . .	
(11) . (10)	1 . .	2 . . 5 . .	
6 . 7	(11) . .	3 . . 4 . .	
(10) . (11)	2 . 5	2 . . 1 . .	
(12) . (12)	1 . .	4 . . 2 . .	
	5 . .	6 . . (14) . (11)	
	4 . 7	3 . . 4 . 7	
	4 . .	3 . . 3 . .	
	7 . (11)	1 . . 9 . 7	
	5 . 7	0 . . 1 . .	
	6 . 6	3 . . 8 . .	
	8 6 6	2 . . (16) . (15)	
	3 . .	6 . . (12) . 8	
	9 . (10)	3 . .	
	4 . 6	2 . .	
	1 . .	6 . .	
	7 . 8	2 . .	
	4 . .	3 . .	
	6 . 7	2 . .	
		0 . .	
		(11) . .	

8 . 0	21 0 0	58 . 0	0 . .
55 . 69	88 6 94	128 . 61	22 . .
-47✓ . -69✓	-67✓ -6 -94✓	-70✓ . -61✓	-22✓ . .
9✓ . 9✓	23✓ 1 13✓	42✓ . 7✓	4✓ . .
-.52✓ . -.77✓	-.29✓ -.90 -.72✓	-.17✓ . -.87✓	-.55✓ . .

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1882phae.proj..872F

Grouping of H, I, and K Stars. +30° 0′ – +61° 2′
13h. 20.0m. – 15h. 59.9m.

3.0	3.5	4.0	4.5	5.0	5.5
			(16) . (10)	(10) . (14)	8 . 8
			(17) . (12)	(20) . (16)	

Σ+	0	.	0	0	.	0	0 . 0
Σ−	33	.	22	30	.	30	8 . 8
Dif.	-33v	.	-22v	-30v	.	-30v	-8v . -8v
No.	2v	.	2v	2v	.	2v	1v . 1v
Mean.	-1.65v	.	-1.10v	-1.50v	.	-1.50v	-.80v . -.80v

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1882phae.proj..872F

Grouping of K, I, and K Stars. +30° 0′ - +61° 2′.

13h 20m.0 - 15h 59m.9

6.0	6.5	7.0		7.5
4 . (12)	6 . 9	8 . 5	2 . .	7 . .
4 . 6	9 . 9	7 . 8	6 . .	8 . .
5 . 8	9 . 6	7 . .	4 . 9	8 . 6
(10) . 6	8 . 6	8 . (10)	(14) . (14)	(10) . 8
9 . (12)	(12) . (10)	2 . .	9 . .	
	(10) . (10)	9 . .	2 . .	
	2 . .	9 . 5		
	6 . 7	4 . .		
	(12) . .	9 . 8		
	5 . .	(10) . .		
	7 . 9	(11) . (10)		
	8 . 8	8 . 8		
	1 . .	0 . .		
	(12) . 8	4 . .		
	7 . 4	0 . .		
	4 . 1	5 . .		
	(20) . (14)	4 . .		
	(14) . (10)	1 . .		
	2 . 3	7 . 6		
	3 . 3	3 . 2		
	3 . 9	(10) . 9		
	9 . 9	8 . .		
		1 . .		
		8 . 7		
		2 . .		
0 . 0	18 . 0	52 . 0		0 . 0
32 . 44	151 . 135	130 . 101		33 . 14
-32 . -44	-133 . -135	-78 . -101		-33 . -14
5 . 5	22 . 18	31 . 13		4 . 2
-.64 . -.88	-.60 . -.75	-.25 . -.78		-.82 . -.70

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1882phae.proj..872F

Grouping of H, I, and K Stars. +30° 0′ - +61° 2′
16h 20m - 18h 39.9m

3.0	3.5	4.0	4.5	5.0	5.5
		(12) . (12)	(16) . 9	(20) . (16)	(18) . (14)
			(22) . (20)		(20) . (15)
					9 . (12)

Σ+	0	0	0	0	0	0	0	0
Σ−	12	12	38	29	20	16	47	41
Dif.	−12	−12	−38	−29	−20	−16	−47	−41
No.	1	1	2	2	1	1	3	3
Mean	−1.20	−1.20	−1.90	−1.45	−2.00	−1.60	−1.57	−1.37

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1882phae.proj..872F

Grouping of H, I, and K Stars. +30° 0' - +61° 2'

16h 0.0m - 18h 39.9m

6.0	6.5	8.0	7.0		7.5
(11) . 9	6 . 6	6 . .	5 . .	4 . .	2 . . 3 . .
7 . (13)	(12) . (11)	(10) . .	(14) . (15)	7 . .	8 . . 9.7
(11) . 8	1 . .	(11) . .	9 . 8	6 . 5	4 . . 2 . .
6 . 7	(12) . (13)	8 . .	7 . 5	8 . .	(11) . . 9 . .
8 . 8	5 . .	4 . .	1 . .	7 . .	(10) . . 5 . .
	7 . 7	3 . .	1 . .	9 . (10)	5 . . 7 . .
	(11) . 7	8 . .	3 . .	0 . .	2 . . 8 . .
	4 . 9	2 . .	9 . 7	2 . .	4 . . 5 . .
	3 . 1	(11) . .	4 . .	1 . .	3 . . (12) . (11)
	7 . 7	1 . .	(11) . (12)	3 . .	2 . . 2 . .
	0 . .	(10) . .	8 . 8	1 . .	(12) . . (12) . .
	7 . 7	4 . .	6 . .	3 . .	8 . . 0 . . 7 . .
	5 . 8	(11) . .	6 . .	(14) . 6	(10) . . 7 . .
	5 . .	6 . .	8 . 8	(11) . (10)	7 . .
	3 . 4	2 . .	1 . 4	7 . .	2 . .
	5 . 6		2 . .	(11) . .	(18) . (12)
	4 . .		1 . .	3 . .	(13) . 9
	8 . 9		4 . .	0 . .	8 . .
	2 . .		9 . .	6 . .	1 . .
	7 . .		4 . .	(13) . .	4 . .
			1 . .	2 . .	0 . .
			7 . .	8 . .	5 . .
			9 . 7	(14) . .	3 . .
			(12) . 7	(11) . .	4 . .
			6 . .		4 . .
0 . 0	22 . 0	13 . .	101 . 0		15 . 0
43 . 45	92 . 95	84 . .	198 . 112		216 . 39
-43✓ . -45✓	-70✓ . 95✓	-71✓ . .	-97✓ . -112✓		-201✓ . -39
5✓ . 5✓	20✓ . 13✓	15✓ . .	49✓ . 14✓		38✓ . 4✓
-.86✓ . -.90✓	-.35✓ . -.73✓	-.47✓ . .	-.20✓ . -.80✓		-.53✓ . -.98✓

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1882phae.proj..872F

Grouping of H, I and K Stars. +30° 0' - +61° 2'

18h 40.0m - 21h 19.9m

3.0	3.5	4.0	4.5	5.0	5.5	6.0
		(12) . (11)		4 . (10)	(13) . (10)	6 . 7
				7 . (11)	(11) . (14)	1 . 8
				(12) . (14)	5 . (14)	6 . ,
					(12) . (12)	1 . 2
					(16) . (19)	7 . 7
						1 . 4
						5 . 6
						4 . 8
						8 . (11)
						2 . .
						8 . 7
						7 . 8
						3 . .
						7 . 7
						8 . (12)
						(12) . .

Db.

8351 } 6.80 R.. ↓
8352 } R..

8779 } 6.37 R.. √
8780 } R..

9316 } 6.23 R. (11) √
9317 } R.

*9392

Σ+	0	0	0	0	0	0	24	0
Σ−	12	11	25	35	57	69	66	93
Dif.	−12 ✓	−11 ✓	−25 ✓	−35 ✓	−57 ✓	−69 ✓	−42 ✓	−93 ✓
Nb.	17	17	3 ✓	3 ✓	5 ✓	5 ✓	16 ✓	12 ✓
Mean.	−1.20 ✓	−1.16 ✓	−.83 ✓	−1.17 ✓	−1.14 ✓	−1.38 ✓	−.26 ✓	−.78 ✓

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1882phae.proj..872F

Grouping of H, I, and K Stars. +80.0' - +61° 2'
18h. 40.0m. - 21h. 19.9m.

6.5		7.0		7.5	8.0
4 . 1	2 . 6	(11) . .			
7 . 4	9 . .	(12) . .			
7 . 6	5 . 5	5 . .			
(10) . (11)	6 . .	7 . .			
4 . .	3 . 5	3 . .			
5 . 7	(11) . (17)	(11) . 7			
7 . 7	6 . .	7 . .			
8 . .	5 . .	6 . .			
(11) . .	1 . .	4 . .			
(10) . .	4 . (12)	2 . .			
2 . 6	3 . .				
8 . (11)	3 . .				
5 . .	4 . (10)				
2 . 1	4 . .				
6 . .	4 . 5				
7 . .	(10) . 8				
4 . .	5 . .				
6 . .	(11) . 4				
2 . .	(17) . (12)				
114 . .	2 . .				
5 . .	2 . .				
8 . 8	3 . R*				
4 . .	(11) . 8				
1 . 2					
5 . 2					
125 .	2	39 .	0		
158 .	156	29 .	7		
−33 v .	−154 v	+16 v .	−7 v		
48 v .	23 v	10 v .	1 v		
−.07 .	−.67 v	+.10 v .	−.70 v		

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1882phae.proj..872F

Grouping of H, I, and K Stars. +30° 0' - +61° 2'
21h 20.0m - 23h 59.9m

3.0	3.5	4.0	4.5	5.0	5.5
				(15) . (10)	(11) . (17)
					9 . (16)
					8 . (10)
					8 . 7
					4 . 5

Σ+	0	0	0	0
Σ-	15	10	40	55
Dif.	-15 ✓	-10 ✓	-40 ✓	-55 ✓
No.	1 ✓	1 ✓	5 ✓	5 ✓
Mean	-1.50 ✓	-1.00 ✓	-.80 ✓	-1.10 ✓

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1882phae.proj..872F

Grouping of H, I, and K Stars. +30° 0' - +61° 2'

21h 20.0m - 23h 59.9m

6.0	6.5		7.0	7.5
(10) . (10)	9 . (10)	8 . .	6 . .	
7 . 7	2 . .	9 . 2	1 . .	
(10) . (13)	2 . .	9 . 7	4 . 7	
(13) . (15)	2 . .	6 . .	5 . .	
(10) . (11)	(15) . (14)	5 . .	2 . .	
1 . 1	7 . 5	4 . 4	1 . .	
9 . (10)	6 . (10)	1 . .	4 . .	
8 . .	(17) . (11)	9 . .	3 . .	
6 . .	5 . 9	1 . .	8 . .	
3 . .	9 . .	6 . .	7 . .	
1 . 6	7 . .	1 . .	(12) . .	
2 . 9	(11) . .	8 . .	8 . .	
2 . 7	(14) . .	8 . .	(15) . .	
(12) . (10)	1 . .	3 . .	1 . .	
0 . 2	5 . 5	1 . .	2 . .	
7 . 9	5 . .	3 . .		
0 . .	6 . 6	4 . .		
2 . .	(12) . .	1 . .		
	4 . 9	2 . .		
	(13) . (12)	6 . 4		
	7 . .	1 . .		
	3 . .	1 . .		
	(19) . (13)			
	(11) . .			
	2 . 2			
19 . 0	141 . 2		66 . 0	
84 . 110	150 . 121		13 . 7	
-65 . -110	- 9 . -119		+53 . -7	
18 . 13	47 . 16		15 . 1	
-.36 . -.85	-.02 . -.74		+.35 . -.70	

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Grouping of H, I, and K Stars. +61° 3° to Pole.
0h to 8h

3.0	3.5	4.0	4.5	5.0	5.5	6.0.
				4 . 8	2 . 3	
					6 . .	
					8 . (13)	
					3 . 3	
					8 . 5	
					3 . .	
					8 . 5	
					(10) . 2	
					5 . 5	
					5 . 7	
					6 . 7	
					(11) . (12)	

Dec.

2775 } 6.71 R. .
2776 } 6.71 R. ✓

Σ+	0 . 0	9 . 3
Σ−	4 . 8	66✓ . 59
Dif.	−4✓ . −8✓	−57✓ . −56✓
No	1✓ . 1✓	12✓ . 10✓
Mean	−.40✓ . −.80✓	−.48✓ . −.56✓

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Grouping of H, I, and K Stars to Pole.

0^h to 8^h

6.5			7.0		7.5	8.0.
1 . .	6 . (10)	3 . 5	(12) . .	0 . .	4 . 4	(14) . .	2 . .
1 . .	1 . .	3 . 3	(10) . .	4 . .	5 . .	(10) . .	(10) . .
3 . .	3 . .	3 . .	2 . .	8 . 7	4 . .	5 . .	4 . .
6 . .	2 . .	8 . 5	5 . .	2 . .	7 . .	8 . .	
(15) . .	3 . 4	3 . .	(12) . .	1 . .	3 . .	1 . .	
2 . .	2 . 3	2 . .	4 . .	9 . .	6 . 2	5 . .	
0 . .	9 . 8	1 . .	5 . .	(11) . .		9 . .	
1 . .	2 . .	2 . 5	4 . .	3 . .		5 . .	
2 . .	3 . .	1 . 2	5 . .	(13) . .		6 . .	
1 . .	5 . .	(12) . 8	(11) . .	2 . .		(12) . .	
(11) . .	7 . 9		6 . .	7 . .		(12) . .	
5 . .	5 . 7		3 . .	7 . .		8 . .	
1 . .	2 . .		9 . .	1 . .		4 . .	
3 . .	5 . .		5 . .	(12) . 8		4 . .	
1 . .	4 . 6		3 . .	(10) . .		6 . .	
0 . .	(12) . .		5 . .	6 . .		6 . .	
6 . .	1 . .		1 . .	6 . .		1 . .	
1 . .	7 . .		1 . .	5 . .			
5 . .	1 . 0		5 . .	5 . .			
8 . .	1 . .		4 . .	0 . .			
1 . .	1 . .		(12) . .	2 . .			
5 . .	7 . (11)		1 . .	1 . .			
4 . 4	4 . .		0 . .	4 . .			
2 . .	6 . 9		5 . .	1 . .			
3 . 4	3 . 2		6 . .	0 . .			
122 .	0		222 .	0	105 . .		16 . .
106 .	105		77 .	21	11 . .		0 . .
+161 .	−105		+145 .	−21	+94 . .		+16 . .
60 .	19		57 .	4	17 . .		3 . .
+.03 .	−.55		+.25 .	−.52	+.55 . .		+.53 . .

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Grouping of H, I, and K Stars. +61° 3' to Pole.

8h. to 16h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0
		(21) . (21)	(14) . (13)		9 . 8	(12) . 5
					(12) . 9	1 . 4
					1 . 7	0 . 4
						6 . 4
						8 . 7
						(10) . (12)
						(13) . 8
						7 . 4
						8 . 6
						4 . 4
						(13) . (10)
						0 . 1
						9 . (10)

Db.

* 6387

Σ+	0	0	0	0	0	0	0	1
Σ−	21	21	14	13	22	24	91	78
Dif.	−21	−21	−14	−13	−22	−24	−91	−77
N.	1	1	1	1	3	3	13	13
Mean	−2.10	−2.10	−1.40	−1.30	−.73	−.80	−.70	−.59

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Grouping of H, I, and K Stars, +61° 3' to Pole.
8h. to 16h.

6.5		7.0			7.5		8.0
4 . .	5 . 3	5 . .	(13) . .	4 . . 1 . .	8 . . 3 . .		5 . .
1 . .	6 . 8	2 . .	1 . .	(12) . . 1 . 5	6 . . 8 . .		3 . .
4 . 7	6 . 4	2 . .	1 . .	6 . . 2 . .	4 . . 3 . .		6 . .
3 . 5	1 . .	6 . .	3 . .	2 . . 3 . .	3 . . 7 . .		5 . .
1 . 2	1 . .	3 . .	5 . .	1 . . 1 . .	5 . . 0 . .		3 . .
2 . .	5 . 7	8 . (11)	2 . .	3 . . 1 . .	(10) . . 2 . .		
1 . .	6 . 1	9 . .	7 . .	1 . . 3 . .	8 . . 2 . .		
1 . .	1 . 1	3 . .	3 . .	4 . . 3 . .	4 . . 1 . .		
2 . 5	5 . 4	8 . 8	2 . .	7 . . 6 . .	2 . . 2 . .		
2 . .	8 . (12)	1 . .	5 . .	4 . . 0 . .	6 . . 3 . .		
5 . 2	7 . 6	2 . .	8 . .	1 . . 0 . .	7 . . 8 . .		
(10) . 6		2 . .	2 . .	8 . . 3 . R*	8 . . 3 . .		
4 . .		7 . .	7 . .	5 . . 2 . .	5 . . 0 . .		
3 . 2			(10) . .	3 . . 3 . .	5 . . 5 . .		
9 . .			0 . .	7 . . (12) . 4	0 . . 6 . 5		
2 . 1			0 . .	1 . . 7 . 4	4 . . 5 . .		
4 . 2			4 . .	2 . . 2 . .	3 . . 1 . .		
2 . .			(12) . .	4 . . 4 . .	1 . . 9 . .		
4 . 4			0 . .	5 . . 2 . .	2 . . 9 . .		
7 . 5			2 . .	1 . . 1 . 7	3 . .		
4 . 5			1 . .	2 . . 5 . .	2 . .		
2 . .			6 . .	8 . . 2 . .	4 . .		
5 . 2			4 . .	4 . . 8 . (10)	4 . .		
2 . .			1 . .	5 . . 8 . .	3 . .		
(13) . 8			0 . .	5 . . 3 . .	0 . .		

16	0	154	0	122	0	16	
133	102	193	49	62	5	6	
-117	-102	-39	-49	+60	-5	+10	
36	23	88	7	44	1	5	
-.32	-.44	-.04	-.70	+.14	-.50	+20	

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Grouping of H, I, and K Stars. + 61° 3′ to Pole.
16h. to 0h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0
				9 . 4	5 . 8	8 . (10)
				(12) . (11)	6 . 8	3 . 5
				(12) . (13)	4 . 6	6 . 5
				(12) . (14)	9 . (10)	5 . (10)
				(14) . (15)	4 . 7	7 . 4
						7 . (12)
						(11) . 5
						3 . 5
						9 . 8
						4 . 5
						1 . 4
						9 . (11)
						9 . 9
						0 . 2

Db.

7312 B. R. R. ✓

10392 R . . .

Σ+	0 . 0	0 . 0	0 . 0
Σ−	59 . 57	28 . 39	82 . 95
Dif.	−59↓ . −57↓	−28↓ . −39↓	−82↓ . −95↓
No.	5↓ . 5↓	5↓ . 5↓	14↓ . 14↓
Mean	−1.18↓ . −1.14↓	−.56↓ . −.78↓	−.59↓ . −.68↓

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Grouping of H, I and K Stars. +61° 3' to Pole.
16h. to 0h.

6.5		7.0			7.5	8.0
(10) . (11)	0 . .	6 . 7	2 . .	5 . . 7 . .	2 . .	9 . .
2 . .	1 . .	2 . .	3 . .	0 . . 3 . .	8 . .	2 . .
2 . .	7 . .	8 . .	5 . .	2 . . (12) . .	(10) . .	4 . .
4 . 7	(13) . .	4 . 7	2 . .	5 . . 3 . .	6 . .	4 . .
5 . 5	8 . .	5 . .	(10) . .	2 . . 5 . .	6 . .	
3 . .	1 . .	6 . .	(13) . .	4 . . 9 . ,	3 . .	
3 . .	1 . .	7 . .	(11) . .	9 . 7	5 . .	
5 . 4	8 . .	4 . .	(11) . .	8 . .	3 . .	
9 . .	8 . 9	5 . .	(12) . .	4 . .	4 / 1 . .	
3 . .	(14) . .	3 . .	(11) . .	2 . .	4 . .	
1 . 7	3 . .	1 . .	7 . .	1 . .	9 . .	
2 . 5	4 . 2	8 . .	6 . .	4 . .	2 . .	
2 . .	(14) . .	2 . .	7 . .	(11) . .	3 . .	
1 . 3	1 . .	3 . .	6 . .	1 . .	7 . .	
1 . .	(13) . .	0 . .	9 . .	5 . .	5 . .	
3 . 3	1 . .	(10) . .	1 . .	8 . .	6 . .	
7 . 4	(12) . .	4 . .	2 . .	6 . .	0 . .	
5 . 5		6 . .	(13) . .	1 . .	6 . .	
(13) . .		7 . .	7 . .	8 . .	7 . .	
8 . (13)		0 . .	3 . .	9 . .	2 . .	
4 . (10)		(14) . .	3 . .	1 . .	9 . .	
2 . 6		6 . .	3 . .	4 . .	8 . .	
2 . 3		3 . .	1 . .	2 . .	9 . .	
5 . 3		(12) . .	3 . .	7 . .	7 . .	
(13) . .		1 . .	8 . 7	7 . .	(15) . .	
141 .	0	333 .	0		91 . .	10 . .
83 .	100	108 .	28		56 . .	9 . .
+58✓ .	−100✓	+225✓ .	−28✓		+35✓ . .	+1✓ . .
42✓ .	17✓	81✓ .	4✓		26✓ . .	4✓ . .
+.14✓ .	−.59✓	+.28✓ .	−.70✓		+.13✓ . .	+.02✓ . .

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Grouping of F Stars. $-0.^{\circ}0$ – $-30.^{\circ}0$

$0^{h.} - 1^{h.}$

3.0	3.5	4.0	4.5	5.0	5.5
~~(4)~~	~~(2)~~			3 10	~~4 7~~
					3 4 6
					6 1 3
					2 1 3
					4 3 6
					6 1 4

Σ+	3	1	0	8	2	4
Σ−	.	.	.	13	8	18
Dif.	+3	+1	0	−5	−6	−14
No	1	1	1	5	5	5
Mean	+.30	+.10	.00	−.10	−.12	−.28

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Grouping of F Stars. −0°− −30.0°.

0h.−1h.

6.0	6.5	7.0	7.5
2 0 0	5 1.	(12) F.	
. 2 4	8 (11).		
7 0 1	1 (13).		
2 2 2	7 (15).		
1 1 0	(10) 5.		
(11) 3 2			

18	0	1	31	45	.	12	.	.
5	8	8	0	0	.	0	.	.
+13	−8	−7	+31	+45	.	+12	.	.
5	6	6	5	5	.	1	.	.
+2.6	−1.5	−1.2	+6.2	+9.0	.	+1.20	.	.

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Grouping of F Stars. -0.0° - -30.0°

2h - 3h.

3.0	3.5	4.0	4.5	5.0	*	5.5
				5 2 3		(10)(20) 5
				4 5 1		3 4 1
				8 3 1		. 1 1
				. (13)(11)		
				. (11) 7		

Q6.

2235
2236 } 5H1 476 ✓

Σ+	0	0	0	13	24	6
Σ−	17	34	23	0	1	1
Dif	-17 ✓	-34 ✓	-23 ✓	+13 ✓	+23 ✓	+5 ✓
No	3 ✓	5 ✓	5 ✓	2 ✓	3 ✓	3 ✓
Mean	-.57	-.68 ✓	-.46 ✓	+.65 ✓	+.77 ✓	+.17 ✓

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1882phae.proj..872F

Grouping of F Stars. −0° − −30.0°.

2h. − 3h.

6.0	6.5	7.0	7.5
1 0 2	7 7.		
5 5 .			
8 7 .			
4 1 .			
5 4 8			
3 3 1			

21	16	0	7 7.	
5	4	11	0 0.	
+16v	+12v	−11v	+7v +7v.	
6v	6v	3v	1v 1v.	
+.27v	+.20v	−.37v	+.70v +.70v.	

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1882phae.proj..872F

Grouping of F Stars. -0° - -30.0°
4h. - 5h.

3.0	3.5	4.0	4.5	5.0	5.5
	4 7 7		1 5 4	4 [illegible] 5	
			5 (10) 7		
			4 6 7		

D.6.
2935 B R R R ✓

Σ+	0	0	0		0	0	0
Σ−	4	7	7		10	21	18
Dif.	-4✓	-7✓	-7✓		-10 ✓	-21✓	-18✓
No.	1✓	1✓	1✓		3✓	3✓	3✓
Mean.	-.40✓	-.70✓	-.70✓		-.33✓	-.70✓	-.60✓

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1882phae.proj..872F

Grouping of F Stars. −0° − −30°

4h − 5h

6.0	6.5	7.0	7.5
1 1 .	4 2 6		
4 2 1	6 F .		
4 4 .	(22) F .		
4 4 .	8 F .		
(13) 5 .	(13) F .		
2 4 .	9 F .		
~~(14) . .~~			
~~0 2 4~~			

22	18	0	62	2	0
6	2	1	0	0	6
+16 v	+16 v	−1 v	+62 v	+2 v	−6 v
6 v	6 v	1 v	6 v	1 v	1 v
+.27 v	+.27 v	−.10 v	+1.03 v	+.20 v	−.60 v

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1882phae.proj..872F

Grouping of F Stars. -0° - -30.0°
6h - 7h

3.0	3.5	4.0	4.5	5.0	5.5
				6 8 1	5 7 1
				6 4 3	(17) F.
				. (16) 0	5 8 .
					(12) (11) .
					(11) (10) .
					2 2 4

12	28	0		50	38	0
0	0	4	.	2	0	5
+12	+28	-4		+48	+38	-5
2	3	3		6	5	2
+.60	+.93	-.13		+.80	+.76	-.25

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Grouping of F Stars. -0°--30.0

6h.-7h.

6.0	6.5	7.0	7.5
7 2 1	0 2 .		
7 3 2	(15) F.		
(15) F.			
7 7.			
9 (10).			

45	22	0
0	0	3
+45 ✓	+22 ✓	-3 ✓
5 ✓	4 ✓	2 ✓

+.90 ✓ +.55 ✓ -.15 ✓

15	0	.
0	2	.
+15 ✓	-2 ✓	.
2 ✓	1 ✓	.

+.75 ✓ -.20 ✓ .

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Grouping of F Stars. -0° - -30°

8h - 9h.

3.0	3.5	4.0	4.5	5.0	5.5
				1 3 2	3 9 .
					3 0 4

Σ+	0	0	0	6	9	0
Σ−	1	3	2	0	0	4
Dif.	-1✓	-3✓	-2✓	+6✓	+9✓	-4✓
No.	1✓	1✓	1✓	2✓	2✓	1✓
Mean.	-.10′	-.30′	-.20′	+.30′	+.45′	-.40′

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Grouping of F Stars. −0° - −30°.
8h. - 9h.

6.0	6.5	7.0	7.5
2 7.			
6 2 3			
(11) 8.			
9 7.			

22	22	0
6	2	3
+16 ✓	+20 ✓	−3 ✓
4 ✓	4 ✓	1 ✓
+.40 ✓	+.50 ✓	−.30 ✓

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Grouping of F Stars. -0° - -30°.0
10h - 11h

3.0	3.5	4.0	4.5	5.0	5.5
				1	2
				5	1

Σ+	1	3	0
Σ-	5	0	5
Dif.	-4 ✓	+3 ✓	-5 ✓
No.	2 ✓	2 ✓	2 ✓
Mean	-.20 ✓	+.15 ✓	-.25 ✓

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Grouping of F Stars. −0° − −30.0°.

10 h. − 11 h.

6.0	6.5	7.0	7.5
5 0.	6 5 6		
2 3 0	8 6.		
9 7.	5 F.		

11	10	0
5	0	0
+6 ✓	+10 ✓	0 ✓
3 ✓	3 ✓	1 ✓
+.20 ✓	+.33 ✓	.00 ✓

19	11	6
0	0	0
+19 ✓	+11 ✓	+6 ✓
3 ✓	2 ✓	1 ✓
+.63 ✓	+.55 ✓	+.60 ✓

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Grouping of F Stars. −0° − −30.0

12 h − 13 h.

3.0	3.5	4.0	4.5	5.0	5.5
			4 3		2 2 2
					1 3 5

Dec.

6202 } 3.81 (10) R(10) ✓
6203 }

Σ+	0	0	
Σ−	4	3	
Dif.	−4 ✓	−3 ✓	
No	1 ✓	1 ✓	
Mean	−.40 ✓	−.30 ✓	

1	2	0	
2	3	7	
−1 ✓	−1 ✓	−7 ✓	
2 ✓	2 ✓	2 ✓	
−.05 ✓	−.05 ✓	−.35 ✓	

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Grouping of F Stars. −0° − −30°
12h. − 13h.

6.0	6.5	7.0	7.5
8 5.	5 6.		
6 5.	6 2.		
9 6 1	3 2 1		
6 5 2			
5 3.			

34	24	3	11	10	1
0	0	0	3	0	0
+34	+24	+3	+8	+10	+1
5	5	2	3	3	1
+.68	+.48	+.15	+.27	+.33	+.10

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Grouping of F Stars. -0° - -30°

14h - 15h

3.0	3.5	4.0	4.5	5.0	5.5
			2 6 5	2 7 4	3 6 3
			5 7 8	. 4 1	. (12) .
				. 6 2	(10) 9 .
				. (11) 3	7 4 1

D.C.

~~7174 R . . .~~

7200 470 RRR ✓

7201 R RRR ✓

Σ+	0	0	0	2	28	7	17	31	1
Σ−	7	13	13	0	0	3	3	0	3
Dif	−7 ✓	−13 ✓	−13 ✓	+2 ✓	+28 ✓	+4 ✓	+14 ✓	+31 ✓	−2 ✓
No.	2 ✓	2 ✓	2 ✓	1 ✓	4 ✓	4 ✓	3 ✓	4 ✓	2 ✓
Mean	−.35 ✓	−.65 ✓	−.65 ✓	+.20	+.70 ✓	+.10	+.47 ✓	+.78	−.10 ✓

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Grouping of F Stars. -0° - -30°.

14h. - 15h.

6.0	6.5	7.0
10.	(11) F.	
9 (10).	4 6 4	
(10) 8 4	2 2.	
(12)(18).		

32	36	0
0	0	4
+32v	+36v	-4v
4v	4v	1v
+.80v	+.90v	-.40v

17	8	4
0	0	0
+17v	+8v	+4v
3v	2v	1v
+.57v	+.40v	+.40v

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Grouping of F Stars. -0° - -30°
16h. - 17h.

3.0	3.5	4.0	4.5	5.0	5.5
				(12)	(13) (11) 5
				3 3	4 1 1
				3 3 1	3 0 5
				1 1 3	. 6 1
				0 3 2	
				1 2 6	
				(10) (13) 8	

D.M.

7872 } 5.16 #13 ✓
7873 }

Σ+	15	29	9	17	18	6
Σ−	0	8	14	3	0	6
Dif.	+15 ✓	+21 ✓	−5 ✓	+14 ✓	+18 ✓	0 ✓
No	5 ✓	7 ✓	6 ✓	3 ✓	4 ✓	4 ✓
Mean	+.38	+.30 ✓	−.08 ✓	+.47 ✓	+.45 ✓	.00 ✓

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Grouping of F Stars. -0°--30°.
16h-17h.

6.0	6.5	7.0	7.5
0 2 2	6 6.		
6 6.			
.8.			
2 5 1			
0 3.			
6 3 6			

8	22	1	
6	5	8	
+2	+17	-7	
5	6	3	
+.04	+.28	-.23	

6	6.
0	0.
+6	+6.
1	1.
+.60	+.60.

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Grouping of F Stars. -0° - -30°
18h - 19h

3.0	3.5	4.0	4.5	5.0	5.5
		2 1 1		1 2 1	. 9 5
		8 7 7		. 4 2	5 6 2
				(14) 9 7	9 9 .
				5 3 5	. (11) 6
					(11) 5 3
					1 7 5
					7 1 1
					7 4 2

Σ+	0	1	0	15	15	9	33	52	23
Σ−	10	7	8	5	3	6	7	0	1
Dif.	−10 ✓	−6 ✓	−8 ✓	+10 ✓	+12 ✓	+3 ✓	+26 ✓	+52 ✓	+22 ✓
No	2 ✓	2 ✓	2 ✓	3 ✓	4 ✓	4 ✓	6 ✓	8 ✓	7 ✓
Mean	−.50 ✓	−.30 ✓	−.40 ✓	+.33 ✓	+.30 ✓	+.08 ✓	+.43 ✓	+.65 ✓	+.31 ✓

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Grouping of F Stars. -0°- -30°.
18h - 19h.

6.0	6.5	7.0	7.5
3 2 .	3 5 .		
7 6 .	8 F .		
5 4 .	1 4 .		
(11) 7 .			
(11) 9 3			
4 5 .			
4 5 .			
(17) (14) .			
. (10) .			

62	62	3	12	9
0	0	:	0	0
+62✓	+62✓	+3✓	+12✓	+9✓
8✓	9✓	1✓	3✓	2✓
+.78✓	+.69✓	+.30'	+.40✓	+.45✓

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Grouping of F Stars. −0°− −30°
20h−21h.

3.0	3.5	4.0	4.5	5.0	5.5			
				5	5	(14)	(11)	R*
						9	7	
						6	3	0
						4	0	2
							6	3

D6.
9112

Σ+	0	0	29	27	3	
Σ−	5	5	4	0	2	
Dif.	−5✓	−5✓	+25✓	+27✓	+1✓	
No	1✓	1✓	4✓	5✓	3✓	
Mean	−.50✓	−.50✓	+.62✓	+.54✓	+.03✓	

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Grouping of F Stars. -0° - -30°
20h - 21h

6.0	6.5	7.0	7.5
6.5.			
3 3 0			

9	8	0
0	0	.
+9 ✓	+8 ✓	0 ✓
2 ✓	2 ✓	1 ✓
+.45 ✓	+.40 ✓	.00 ✓

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Grouping of F Stars. −0° − −30°
22h. − 23h.

3.0 . 3.5 . 4.0 . 4.5 . 5.0 . 5.5

. (11) .

, 5 5

D.C.

9799 } 4.35(11) R
9800 } R 6 ✓

Σ+	.	11	0
Σ−	.	5	5
Dif	.	+6✓	−5✓
No	.	2✓	1✓
Mean	.	+.38	−.50✓

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Grouping of F Stars. -0° -- 30°.
22h - 23h

6.0	6.5	7.0
6 5.	7 4.	
5 5 4	7 9.	
1 1 6		
8 6.		
4 2 1		
9 (12).		
7 8 9		

28	28	0	14	13
12	11	20	.	.
+16v	+17v	−20v	+14v	+13v
7v	7v	4v	2v	2v
+.23v	+.24v	−.50v	+.70v	+.65v

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1882phae.proj.0072F

100

Grouping of F Stars. +0.°0 - +29° 59.'9
0h. - 1h.

3.0	3.5	4.0	4.5	5.0	5.5
			4 . 7		1 . 0
					4 . 5
					3 . 3
					1 . 4

D.C.

395 } 6.20 7.6 ✓
396 }

Σ+	.	.	4	. 3
Σ−	4	. 7	5	: 12
Dif	−4✓	. −7✓	−1✓	: −9✓
No.	1✓	1✓	4✓	. 4✓
Mean	−.40✓	. −.70✓	−.02✓	: −.22✓

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1882phae.proj.:872F

Grouping of F Stars. +0° - +29° 5 9.9
0h - 1h.

6.0	6.5	7.0	7.5
3 1 .	8 2 .	6 5 7	
2 . 1	1 . .	6 1 .	
4 . .	7 2 .	(10) . .	
3 . 1	5 . .	7 . .	
7 1 1	1 . .	6 1 .	
(11) 5 .	(10) 4 .	4 . .	
0 5 4		8 . .	
7 . 6			
3 3 3			
2 3 .			
5 . .			
1 . 1			

38	8	1	32	8	.	35	1	0
10	10	16	0	0	.	12	6	7
+28v	-2v	-15v	+32v	+8v	.	+23v	-5v	-7v
12v	6v	7v	6v	3v	.	7v	3v	1v
+.23	-.03v	-.21v	+.53	+.27v	.	+.33	-.17v	-.70v

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1882phae.proj.872F

Grouping of F Stars. +0° - +29° 59.9
2h - 3h

3.0	3.5	4.0	4.5	5.0	5.5
				8 5 6	4 . 3
					6 . 3
					0 . 1
					3 . 0

D.C.

1504 } 6.19 R .
1505 } R . 1 ✓

Σ+	.	.	.	3	0
Σ−	8	5	6	10	7
Dif	−8✓	−5✓	−6✓	−7✓	−7✓
No	1✓	1✓	1✓	4✓	4✓
Mean	−.80✓	−.50✓	−.60✓	−.18✓	−.18✓

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Grouping of F Stars. +0° - +29° 59.9.
2h - 3h

6.0	6.5	7.0
2 . 1	(10) . .	
2 . 2	(12) . .	
(14) 8 .	1 . .	
2 . 2	(14) 4 .	
(10) 2 5		
6 . 4		
1 . 2		
3 . 2		

29	8	2	37	4	.
11	2	16	0	0	.
+18v	+6v	-14v	+37v	+4v	.
8v	2v	7v	4v	1v	.
+.22v	+.30v	-.20v	+.92v	+.40v	.

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Grouping of F Stars. +0° - +29° 59'.9

4h - 5h

3.0	3.5	4.0	4.5	5.0	5.5
		7 8 7		1 . 5	1 . 3
					6 . 4
					0 . 3

Σ+	0	0	0	0	.	0	6	. 4
Σ−	7	8	7	1	.	5	1	. 6
Dif.	−7✓	−8✓	−7✓	−1✓	.	−5✓	+5✓	. −2✓
No.	1✓	1✓	1✓	1✓	.	1✓	3✓	. 3✓
Means	−.70✓	−.80✓	−.70✓	−.10✓	.	−.50✓	+.17✓	. −.07✓

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Grouping of F Stars. +0° - +29° 59'.9.

4h - 5h.

6.0	6.5	7.0
1 . 2	(12) . .	9 F .
1 . 0	(18) . .	1 . .
4 . .	6 . .	
7 . .	(12) . .	
5 . .	4 . .	
8 . .	1 . .	
3 . .		
(14) . .		
3 2 4		

46	2	2	53	.	.	10	.	.
0	0	4	0	.	.	0	.	.
+46v	+2v	−2v	+53v	.	.	+10v	.	.
9v	1v	3v	6v	.	.	2v	.	.
+.51v	+.20v	−.071	+.88v	.	.	+.50v	.	.

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Grouping of F Stars. +0° – +29° 59.9
6h – 7h.

3.0	3.5	4.0	4.5	5.0	5.5
		3 . 6		9 4 2	
				8 . 2	
				5 . .	

Gb.
+292 B RRR ✓

Σ+	0 . 0	
Σ−	3 . 6	
Dif	−3✓ . −6✓	
Nb.	1✓ . 1✓	
Mean	−.30✓ . −.60✓	

22	4	0
0	0	4
+22✓	+4✓	−4✓
3✓	1✓	2✓
+.73✓	+.40✓	−.20✓

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Grouping of F Stars. +0° - +29° 59.9'.
6h. - 7h.

6.0	6.5	7.0
6 . .	9 1 .	7 . .
(15) F.	(10) 7 .	
7 9 2	(17) F.	
(13) . .	(11) . .	
(14) . .	(15) . .	
(11) . .	(15) . .	
(16) 8 .	4 . .	
(11) 8 .	(14) . .	
	(12) . .	
	(11) . .	
	(17) . .	

93 25 2	135 8 .	7 . .
0 0 0	0 0 .	0 . .
+93 v +25 v +2 v	+135 v +8 v .	+7 v . .
8 v 3 v 1 v	11 v 2 v .	1 v . .
+1.16 v +.83 v +.20 v	+1.23 v +.40 v .	+.70 v . .

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Grouping of F Stars. +0° - +29° 59.9
8h - 9h.

3.0	3.5	4.0	4.5	5.0	5.5
			8 (10) 7	1 . 5	

Q6.

4499) R RRR
4500) 5.38 7 3 7 v
4501) R RRR

Σ+	0	0	0	1 .	0
Σ−	8	10	7	0 .	5
Dif	−8 v	−10 v	−7 v	+1 v .	−5 v
No	1 v	1 v	1 v	1 v .	1 v
Mean	−.80 v	−1.00 v	−.70 v	+.10 v .	−.50 v

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Grouping of F Stars. +0° - +29° 59.9.

8h - 9h

6.0	6.5	7.0	7.5
6 . 8	2 . 2	7 . .	
3 3 .	(10) . .	2 . .	
(12) 8 .	1 . .		
6 . .	3 . 3		
(12) 8 .	3 . .		
(11) 6 .	1 . .		
(10) 8 .	3 1 .		

54	33	0		18	1	0		9 . .
6	0	8		5	0	5		0 . .
+48	+33	-8		+13	+1	-5		+9 . .
7	5	1		7	1	2		1 . .
+.69	+.66	-.80		+.19	+.10	-.25		+.90 . .

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Grouping of F Stars. + 0° - + 29° 59.9′

10h - 11h

3.0	3.5	4.0	4.5	5.0	5.5
				1 3 4	6 . 3
				8 . 2	4 . 1

Dec.

5310 } 4.09 R.
5311 } R. 5 1

Σ+	1	0	0	10	0
Σ−	8	3	6	0	4
Dif.	−7 ✓	−3 ✓	−6 ✓	+10 ✓	−4 ✓
No	2 ✓	1 ✓	2 ✓	2 ✓	2 ✓
Mean	−.35′	−.30′	−.30 ✓	+.50 ✓	−.20 ✓

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Grouping of F Stars. +0° - +29° 59.9.
10h - 11h

6.0	6.5	7.0	7.5
3 . .	2 2 4		
2 . .	0 1 .		
5 . .	7 3 .		
(11) 6 .	6 . .		
	(14) F .		
	1 . .		

21	6	.
0	0	.
+21v	+6v	.
4v	1v	.
+.52v	+.60v	.

28	4	0
2	2	4
+26v	+2v	-4v
6v	3v	1v
+.43v	+.07v	-.40v

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1882phae.proj..872E

Grouping of F Stars. +0° - +29°.59.9'

12h. - 13h.

3.0	3.5	4.0	4.5	5.0	5.5
				2 . 8	0 . 2
				6 5 7	4 0 5
					1 2 4

D.6.

6358
6359 } 5:16 2 7 8 ✓

Σ+	0	0	0	4	0	0
Σ−	8	5	15	1	2 ✓	11
Dif.	−8 ✓	−5 ✓	−15 ✓	+3 ✓	−2 ✓	−11 ✓
No	2 ✓	1 ✓	2 ✓	3 ✓	2 ✓	3 ✓
Means	−.40 ✓	−.50 ✓	−.75 ✓	+.10 ✓	−.10 ✓	−.37 ✓

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1882phae.proj..872F

Grouping of F Stars. +0° - +29° 59.9
12h - 13h

6.0	6.5	7.0	7.5
7 . .	(11) 4 .	2 . .	
5 . .	(10) 7 .	0 . .	
	0 . .	2 . ,	
	3 . 1		
	5 . 4		
	8 . .		
	2 . .		
	3 . 5		
	6 . .		
	1 . .		

12 . .	37	11	1
0 . .	12	0	9
+12v . .	+25v	+11v	-18v
2v . .	10v	2v	3v
+.60v . .	+.25v	+.55v	-.27v

4 . .
0 . .
+4v . .
3v . .
+.13v . .

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Grouping of F Stars. +0° - +29° 59'.9.

14h - 15h

3.0	3.5	4.0	4.5	5.0	5.5
			7 6 5	4 . 4	2 3 3
				0 2 6	6 . 4
					3 0 2
					(12) . (11)

Σ+	0	0	0	0	0	0	2	3	0
Σ-	7	6	5	4	2	10	21	0	20
Dif	-7 v	-6 v	-5 v	-4 v	-2 v	-10 v	-19 v	+3 v	-20 v
No.	1 v	1 v	1 v	2 v	1 v	2 v	4 v	2 v	4 v
Mean	-.70 v	-.60 v	-.50 v	-.20 v	-.20 v	-.50 v	-.48 v	+.15 v	-.50 v

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Grouping of F Stars. +0° - +29° 59.9.

$14^h - 15^h$

6.0	6.5	7.0	7.5
3 1 4	5 . .		
8 . 2	5 . .		
2 . 2	4 . 2		
0 . .	(12) . .		
8 (10) .	8 . .		
1 . 4			

19	11	0	30 .	0
3	0	12	4 .	2
+16v	+11v	-12v	+26v .	-2v
6v	2v	4v	5v .	1v
+.27v	+.55v	-.30v	+.52v .	-.20v

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1882phae.proj..872F

Grouping of F Stars. +0° - +29° 59'.9.
16h. - 17h.

3.0 . 3.5 . 4.0 . 4.5 . 5.0 . 5.5

(11) 8 .

3 1 5

Σ+	11	9	0
Σ−	3	0	5
Dif.	+8v	+9v	−5v
No	2v	2v	1v
Mean	+.40	+.45	−.50

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1882phae.proj..872F

Grouping of F Stars. +0°-+29°5-9.9.

16h.-17h.

6.0	6.5	7.0	7.5
8 6 .	4 . 3		
6 6 .	4 . .		
4 . .	4 . 6		
(10) . 4	2 . .		
9 . 3	3 . 7		
1 2 1	0 4 .		
1 . 2	5 . .		
8 5 .	4 . .		
	(12) . .		
	1 . 3		
	8 . .		
	0 . .		
	3 . .		

26	19	4
21	0	6
+5✓	+19✓	-2✓
8✓	4✓	4✓
+.06✓	+.48✓	-.05✓

36	4	0
14	0	19
+22✓	+4✓	-19✓
13✓	1✓	4✓
+.17✓	+.40✓	-.48✓

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1882phae.proj..872F

Grouping of F Stars. +0° - +29° 59.9′

18h. - 19h.

3.0	3.5	4.0	4.5	5.0	5.5
				8 . 7	2 2 0
					2 2 3
					6 1 3
					7 . 2
					6 2 8

Dec.

8927 } 6.11 R.. ✓
8928 } R..

Σ+	0	.	0	9	5 2
Σ−	8	.	7	14	2 14
Dif.	−8✓	.	−7✓	−5✓	+3✓ −12✓
No	1✓	.	1✓	5✓	4✓ 5✓
Means	−.80✓	.	−.70✓	−.10′	+.08✓ −.24✓

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1882phae.proj..872F

Grouping of F Stars. +0° - +29° 59.9'
18h. - 19h.

6.0	6.5	7.0	7.5
0 2 5	9 . .	5 . .	
3 0 5	43 .		
1 . 1	1 . .		
8 . .	6 6 .		
5 . .	5 . .		
2 6 .	8 . .		
4 . .	5 . .		
8 . .	(11) . .		
3 4 9	6 5 .		
(12) . .	8 . .		
0 . 0	6 . .		
(13) . .	2 . 1		
1 3 1	3 . .		
1 . 5	8 . .		
7 . .	4 . .		
7 . .	3 . .		
3 1 6	3 . 3		
	4 . .		
	3 . .		
	(12) . .		
	4 . .		
	8 . .		

70	9	1	111	14	0	5	.	.
8	7	31	7	0	4	0	.	.
+62v	+2v	-30v	+104v	+14v	-4v	+5v	.	.
17v	6v	8v	22v	3v	2v	1v	.	.
+.36v	+.03v	-.38v	+.47v	+.47v	-.20v	+.50v	.	.

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1882phae.proj..872F

Grouping of F Stars. +0° - +29° 59.9
20h. - 21h.

3.0	3.5	4.0	4.5	5.0	5.5
			9 9 8	4 7 5	1 . 3
				9 . 8	

D6.

9505
9506 } 5197.8 ✓

Σ+	0	0	0	0	0	0	0	0
Σ−	9	9	8	13	7	13	1	3
Dif.	−9 ✓	−9 ✓	−8 ✓	−13 ✓	−7 ✓	−13 ✓	−1 ✓	−3 ✓
No	1 ✓	1 ✓	1 ✓	2 ✓	1 ✓	2 ✓	1 ✓	1 ✓
Mean	−90 ✓	−90 ✓	−80 ✓	−65 ✓	−70 ✓	−65 ✓	−10 ✓	−30 ✓

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Grouping of F Stars. +0° - +29° 59.9.
20h - 21h

6.0	6.5	7.0	7.5
4 . 4	0 . 2	(10) . .	
6 . .	9 . .		
1 . 1	1 . .		
1 . 1	9 . .		
9 . 1			
(12) . .			
2 . 1			
2 2 3			
6 4 .			
1 2 1			

29	6	2	19	0	10	.	.
15	2	10	0	2	0	.	.
+14✓	+4✓	-8✓	+19✓	-2✓	+10✓	.	.
10✓	3✓	7✓	4✓	1✓	1✓	.	.
+.14✓	+.13✓	-.11✓	+.48✓	-.20✓	+1.00✓	.	.

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1882phae.proj..872

Grouping of F Stars. +0° - +29° 59.9'

22h. - 23h.

3.0	3.5	4.0	4.5	5.0	5.5
			4 . 4	4 0 3	5 2 2
				4 9 (10)	9 . 8
				8 9 7 -	
				8 (12)(10)	

D6.

10333 } 6.95 R.. ✓
10334 } R..

Σ+	0	0	0	0	0	0	0	0
Σ−	4	4	24	30	30	14	2	10
Dif.	−4✓	−4✓	−24✓	−30✓	−30✓	−14✓	−2✓	−10✓
Ko	1✓	1✓	4✓	4✓	4✓	2✓	1✓	2✓
Means	−.40✓	−.40✓	−.60✓	−.75✓	−.75✓	−.70✓	−.20✓	−.50✓

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Grouping of F Stars. + 0° – + 29° 59.9.

22h. – 23h.

6.0	6.5	7.0	7.5
(14) 7 .	5 . 5	5 . .	
8 1 .	(10) . .		
1 3 2	7 F .		
5 0 5	7 6 .		
8 2 .	(13) F .		
3 . 3	9 . .		
6 F .	9 . .		
9 1 3	0 . 2		
8 . .	4 . .		
8 3 0	0 . .		

62	13	0	61	6	2	5	.	.
3	4	13	5	0	5	0	.	.
+59✓	+9✓	−13✓	+56✓	+6✓	−3✓	+5✓	.	.
10✓	7✓	5✓	10✓	1✓	2✓	1✓		
+.59✓	+.13✓	−.26✓	+.56✓	+.60✓	=.15✓	+.50✓	.	.

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1882phae.proj..372f

Grouping of F Stars. +30.0′ - +61°2′
0h 0.0m - 2h 39.9m

3.0	3.5	4.0	4.5	5.0	5.5
	(14) . (12)		9 . (11)	8 . 6	4 . 7
					2 . 2
					4 . 5
					3 . 5
					4 . 5
					(13) . .
					5 . 3
					6 . 6
					4 . 4

Σ+	0 . 0	0 . 0	0 . 0	20 . 3
Σ−	14 . 12	9 . 11	8 . 6	25 . 34
Dif.	-14↓ . -12↓	-9↓ . -11↓	-8↓ . -6↓	-5↓ . -31↓
No	1↓ . 1↓	1↓ . 1↓	1↓ . 1↓	9↓ . 8↓
Mean.	-1.40↓ . -1.20↓	-.90↓ . -1.10↓	-.80↓ . -.60↓	-.06↓ . -.39↓

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1882phae.proj..872F

Grouping of F Stars. +30.0′ – +61° 2′
0h. 0.0m. – 2h. 39.9m.

6.0	6.5	7.0	7.5
5 . .	2 . .	0 . .	(13) . .
1 . 0	6 . .	(11) . .	
(13) . .	3 . .	7 . .	
2 . 2	0 . .	(11) . .	
5 . .	7 . .	8 . .	
8 . .	(13) . .	5 . .	
8 . .	5 . .	(14) . .	
(11) . .	1 . .	9 . .	
1 . .	7 . .		
(13) . .	3 . 2		
7 . .	1 . .		
4 . .	2 . .		
2 . .	3 . .		
4 . .	0 . .		
4 . .	1 . .		
	8 . .		
	6 . .		
	1 . .		
	9 . .		
	(11) . .		
	7 . 7		
	2 . .		

87 : 2	74 : 0	65 . .	13 . .
1 : 0	24 : 9	0 . .	0 . .
+86′ : +2′	+50′ : −9′	+65′ . .	+13′ . .
15′ : 2′	22′ : 2′	8′ . .	1′ . .
+.57′ : +.10′	+.23′ . −.45′	+.81′ . .	+1.30′ . .

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1882phae.proj..872f

Grouping of F Stars. +30°0' - +61°2'

2h 40.0m - 5h 19.9m.

3.0	3.5	4.0	4.5	5.0	5.5
		var. R . 7		0 . 4	4 . 2
				6 . 8	4 . 2
				3 . 2	0 . 2
					6 . 7
					2 . 0
					5 . 0

D6.

~~1821 R . . .~~

1904 B R . R ✓

2930 B R . R ✓

Σ+	0	0	13	0
Σ−	9	14	8	13
Dif.	−9✓	−14✓	+5✓	−13✓
No	3✓	3✓	6✓	6✓
Mean	−.30✓	−.47✓	+.08✓	−.22✓

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1002phae.proj.0725

Grouping of F Stars. +30°0′ - +61°2′

$2^h 40.0^m - 5^h 19.9^m$

6.0	6.5	7.0	7.5
3 . .	6 . .	2 . .	
4 . .	0 . .	5 . .	
1 . 2	(11) . .	2 . .	
3 . .	6 . .	8 . .	
3 . .	3 . .	9 . .	
3 . .	6 . .	4 . .	
4 . 3	4 . .	1 . .	
5 . .	2 . .	5 . .	
1 . 4	6 . .	1 . .	
(12) . (11)	4 . .	7 . .	
2 . 1	(13) . .	(15) . .	
(10) . .	4 . .	(12) . .	
3 . .	2 . .	5 . .	
6 . .	2 . .		
1 . 3	5 . .		
	8 . .		
	9 . .		
	(14) . .		
	8 . .		
43 . 4	109 . .	74 . .	
18 . 20	4 . .	2 . .	
+25✓ . −16✓	+105✓ . .	+72✓ . .	
15✓ . 6✓	19✓ . .	13✓ . .	
+.17✓ . −.27✓	+.55✓ . .	+.55✓ . .	

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1882phae.proj..872F

Grouping of F Stars. +30° 0' - +61° 2'
5h. 20.0m. - 7h. 59.9m.

3.0	3.5	4.0	4.5	5.0	5.5
				8 . 0	1 . 2
				2 . 5	

D.C.

~~3622 R . . .~~

3791 } 5.96 0.5 ↓
3792 }

3920 } 6.52 R . . ↓
3921 } R . .

Σ+	8	.	0	1 . 0
Σ−	2	.	5	0 . 2
Dif.	+6↓	.	−5↓	+N . −2↓
No	2↓	.	2↓	1↓ 1↓
Mean	+30↓	.	−.25↓	+.10↓ . −.20↓

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1882phae.proj - 872F

Grouping of F Stars. +30° 0' - +61° 2'
5h 20.0m - 7h 59.9m

6.0	6.5	7.0	7.5
(15) . .	0 . .	6 . .	
(12) . .	2 . .	7 . .	
1 . 5	6 . .	(14) . .	
2 . .	8 . .	(13) . .	
7 . .	(14) . .	(10) . .	
2 . 3	4 . .		
2 . 4	8 . .		
0 . 3	(11) . .		
	3 . .		
	8 . .		
	6 . .		
	3 . .		
	3 . .		
	1 . 1		
	7 . .		
	3 . .		

39 . 0	87 . 1	44 . .
2 . 15	0 . 0	6 . .
+37√ . −15√	+87√ . +1√	+38√ . .
8√ . 4√	16√ . 1√	5√ . .
+.46√ . −.38√	+.54√ . +.10√	+.76√ . .

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1882phae.proj..872F

Grouping of F Stars. +30° 0′ ✱ − 61° 2′

$8^{h}\ 0.0^{m} - 10^{h}\ 39.9^{m}$

3.0	3.5	4.0	4.5	5.0	5.5
		(11) . 7	3 . 2		9 . 1
			6 . 6		4 . 4
					7 . 7
					6 . 4

Σ+	0	0	0	0	9	1
Σ−	11	9	9	8	19	15
Dif.	−11 ✓	−9 ✓	−9 ✓	−8 ✓	−16 ✓	−14 ✓
No	1 ✓	1 ✓	2 ✓	2 ✓	4 ✓	4 ✓
Mean	−1.10 ✓	−.90 ✓	−.45 ✓	−.40 ✓	−.25 ✓	−.35 ✓

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1882phae.proj.872F

Grouping of F Stars. +30° 0′ - 61° 2′
8h. 0.0m. - 10h. 39.9m.

6.0	6.5	7.0	7.5
5. .	6. .	8. .	
0 . 2	6. .	3. .	
(15). .	8. .	5. .	
4. .	2 . 4	4. .	
(10). .	1. .	3. .	
(10). .	7. .		
3. .	(10). .		
4. .	(11). .		
1 . 5	0. .		
1 . 4	3. .		
	0. .		
	2. .		
	1. .		
	2. .		
	3. .		
	2. .		

53 . 0	60 . 0	23 . .
0 . 11	4 . 4	0 . .
+53✓ . −11✓	+56✓ . −4✓	+23✓ . .
10✓ . 3✓	16✓ . 1✓	5✓ . .
+.53 . −.37	+.35✓ . −.40✓	+.46✓ . .

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1882phae.proj..8721

Grouping of F Stars. +30° 0' - +61° 2'
10h 40m.0 - 13h 19m.9

3.0	3.5	4.0	4.5	5.0	5.5
				7 . 9	8 . 4 / 5 . 7

Σ+	0	0	0	0
Σ−	7	9	13	11
Dif.	−7	−9	−13	−11
No	N	N	2	2
Mean	−.70	−.90	−.65	−.55

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1882phae.proj..872F

Grouping of F Stars. +30° 0' - +61° 2'

10h. 40m.0 - 13h. 19m.9

6.0	6.5	7.0	7.5
1 . 2	5 . .	6 . .	
2 . 1	1 . .	(10) . .	
7 . 4	2 . 1	3 . .	
2 . 2	1 . .		
	1 . .		
	1 . .		
	(13) . (14)		
	5 . 7		

3	0	7	0	16	. .
9	9	22	22	3	. .
−6 ✓	−9 ✓	−15 ✓	−22 ✓	+13 ✓	. .
4 ✓	4 ✓	8 ✓	3 ✓	3 ✓	. .
−.15 ✓	−.22 ✓	−.19 ✓	−.73 ✓	+.43 ✓	. .

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1882phae.proj..872f

Grouping of F Stars. +30° 0' - +61° 2'

13h 20.0m - 15h 59.9m

3.0	3.5	4.0	4.5	5.0	5.5
				8 . 6	5 . 6
				2 . 3	2 . 3
					8 . 4
					(10) . 8

D6.

6688 } 6.52 R.R
6689 } R.R ✓

6996 } 5.50 3 . 5 ✓
6997 }

Σ+	2	0	0	0
Σ−	8	9	25	21
Dif.	-6 ✓	-9 ✓	-25 ✓	-21 ✓
N	2 ✓	2 ✓	4 ✓	4 ✓
Mean	-.30 ✓	-.45 ✓	-.62 ✓	-.52 ✓

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1882phae.proj..872F

Grouping of F Stars. + 30° 0' - + 61° 2'.

13h 20m.0 - 15h 59m.9

6.0	6.5	7.0	7.5
0 . 4	4 . .	3 . .	1 . .
2 . 5	6 . 1	5 . 9	4 . .
0 . 4	1 . .	2 . .	
4 . 9	1 . 1	5 . .	
	2 . .	7 . .	
	5 . 7	1 . .	
	3 . 5	5 . .	
	3 . .		
	2 . 2		
	3 . .		
	6 . .		
	3 . .		
	1 . 2		
	3 . 7		

0 . 0	24 . 0	15 . 0	4 . .
6 . 22	19 . 25	13 . 9	1 . .
-6v . -22v	+5v . -25v	+2v . -9v	+3v . .
4v . 4v	14v . 7v	7v . 1v	2v . .
-.15v . -.55v	+.04v . -.36v	+.03v . -.90v	+.15v . .

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1882phae.proj..872F

Grouping of F Stars. +30° 0' - +61° 2'

16h 0.0m - 18h 39.9m

3.0	3.5	4.0	4.5	5.0	5.5
2 \ 1			(13) · 6		5 · 1

D.6.

7487 } 5.44 6 . 2 ✓
7488 }

7942 } 6.53 R..
7943 } R.. ✓

Σ+	0	·	0	0	·	0	0 · 0
Σ−	2	·	1	13	·	6	5 · 1
Dif.	−2 ✓	·	−1 ✓	−13 ✓	·	−6 ✓	−5 ✓ · −1 ✓
No	1 ✓		1 ✓	1 ✓		1 ✓	1 ✓ · 1 ✓
Mean	−.20	·	−.10	−1.30	·	−.60	−.50 · −.10

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1882phae.proj..872F

Grouping of F+ Stars. +30° 0' - +61° 2'
16h 0.0m - 18h 39.9m

6.0	6.5	7.0	7.5
3 . 3	1 . .	1 . .	1 . .
	4 . .	3 . .	4 . .
	1 . .	1 . .	2 . .
	(11) . 5	9 . .	1 . .
	3 . .	4 . .	1 . .
	3 . .	5 . .	4 . .
	1 . .	7 . .	2 . .
	3 . .	5 . .	3 . .
	9 . .	1 . .	0 . .
	1 . .	9 . .	
		0 . .	
		1 . .	
		7	

0 . 0	19 . 0	30 . .	13 . .
3 . 3	18 . 5	23 . .	5 . .
−3✓ . −3✓	+1✓ . −5✓	+7✓ . .	+8✓ . .
1✓ . 1✓	10✓ . 1✓	13✓ . .	9✓ . .
−.30✓ . −.30✓	+.01✓ . −.50✓	+.05✓ . .	+.09✓ . .

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1882phae.proj..872f

Grouping of F Stars. +30°0' - +61°2'

18h 40.0m - 21h 19.9m

3.0	3.5	4.0	4.5	5.0	5.5
			2 . 3	2 . 5	(10) . 4
			3 . 4	1 . 6	5 . 6
					1 . 5
					2 . 6
					2 . 0
					8 . 7
					1 . 7

Dec.

8877 } 6.02 R. .
8878 } 6.02 R. 5 ✓

9020 } 6.01 R. .
9021 } 6.01 R. . ✓

Σ+	0	:	0		1	:	0		17	:	0
Σ−	5	:	7 ✓		2	:	11 ✓		12	:	35
Dif	−5 ✓	:	−7 ✓		−1 ✓	:	−11 ✓		+5 ✓	:	−35 ✓
N°	2 ✓	:	2 ✓		2 ✓	:	2 ✓		7 ✓	:	7 ✓
Mean	−.25 ✓	:	−.35 ✓		−.05 ✓	:	−.55 ✓		+.07 ✓	:	−.50 ✓

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1882phae.proj..872F

Grouping of F stars. +30° 0' - +61° 2'

18h 40.m0 - 21h 19.m9

6.0	6.5	7.0	7.5
4 . 4	5 . .	(10) . .	
7 . 3	9 . .	0 . .	
0 . 4	2 . .	0 . 0	
1 . 2	0 . .	2 . .	
5 . .	9 . .	7 . 7	
6 . .	2 . .	(10) . 8	
0 . 3	3 . .		
6 . 2	5 . .		

11 . 0	30 . .	10 . 0
18 . 18	5 . .	19 . 15
−7✓ . −18✓	+25✓ . .	−9✓ . −15✓
8✓ . 6✓	8✓ . .	6✓ . 3✓
−.09✓ . −.30✓	+.31✓ .	−.15✓ . −.50✓

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1882phae.proj..872F

Grouping of F Stars. +30°0′ - +61°2′

21h 20m.0 - 23h 59m.9

3.0	3.5	4.0	4.5	5.0	5.5
				6 . 6	5 . 2
				(11) . 5	

Dec.

9813 } 4.73 R. ✓
9814 } R. 7

~~10427 R . . .~~

10437 } 5.89 1. 1 ✓
10438 }

Σ+	6	.	6	5	. 0
Σ−	11	.	5	0	. 2 ✓
Dif.	−5 ✓	.	+1 ✓	+5 ✓	. −2 ✓
No	2 ✓	.	2 ✓	1 ✓	. 1 ✓
Mean	−.25 ✓	.	+.05 ✓	+.50 ✓	. −.20 ✓

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Grouping of F Stars. +30° 0′ – +61° 2′

21h. 20.0m. – 23h. 59.9m.

6.0	6.5	7.0	7.5
0 . 6	5 . 6	9 . .	
4 . .	(15) . .	1 . .	
5 . .	(13) . .	2 . .	
8 . .	0 . .		
2 . 1	(14) . .		
0 . 1	1 . .		
6 . 4	4 . .		
1 . 3	1 . .		
7 . 4	(10) . .		
0 . 5	9 . .		
3 . .	6 . .		
5 . .	8 . .		
	3 . 1		
	5 . .		
	5 . 5		
	4 . .		
	8 . .		
	6 . .		
	3 . 3		
	2 . .		

32	4	99	1	11	. .
9	20	18	14	1	. .
+23✓	−16✓	+81✓	−13✓	+10✓	. .
12✓	7✓	20✓	4✓	3✓	. .
+.19✓	−.23✓	+.46✓	−.32✓	+.33✓	. .

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Grouping of F Stars. +61° 3′ to Pole.

0h. to 8h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0
					1 . 3	3 . .
					4 . 4	6 . .
					3 . 6	2 . 1
					6 . 3	4 . .
					3 . 4	8 . .
					2 . 2	0 . 1
						1 . 1
						1 . 0
						(13) .
						3 . .
						0 . 3
						4 . 0
						1 . 4
						8 . .
						2 . 2

D.6.

804 B R . R .

Σ+	1	0	53	1
Σ−	18	22	3	11
Dif.	−17 ✓	−22 ✓	+50 ✓	−10 ✓
No.	6 ✓	6 ✓	15 ✓	8 ✓
Mean	−.28′	−.37′	+.33′	−.12′

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Grouping of F Stars. +61° 3' to Pole.
0h to 8h.

6.5	7.0	7.5	8.0
2 . .	4 . .	(11) . .	8 . .
3 . .	9 . .	1 . .	
2 . 0	(10) . .		
3 . .	9 . .		
6 . .	(15) . .		
2 . .	(12) . .		
(16) . .	9 . .		
4 . .	(11) . .		
4 . .	7 . .		
3 . .	6 . .		
4 . .	8 . .		
8 . .	6 . .		
9 . .	(10) . .		
2 . .	(10) . .		
5 . .	(10) . .		
3 . .	4 . .		
8 . .	9 . .		
5 . 7	6 . .		
8 . .	6 . .		
2 . 0	0 . .		
1 . .	0 . .		
0 . .	3 . .		
5 . .	5 . .		
5 . .	7 . .		
5 . .			

155	0	176		1		8	
13	11	0		11		0	
+142	−11	+176		−10		+8	
32	6	24		2		1	
+.44	−.18	+.73		−.50		+.80	

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Grouping of F Stars. +61° 3' to Pole.

8h. to 16h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0
			9 . 7	3 . 2	6 . 4	1 . 3
				1 . 2	3 . 1	7 . .
					3 . 0	0 . 2
						1 . .
						4 . 2
						1 . 1

D.C.

6067 } 6.33 R. .
6068 } R. . ↓

6461 } 6.33 R.
6462 } R. 3 ↓

Σ+	0	.	0	4	.	2	3	.	0	12	.	0
Σ−	9	:	7	0	:	2	9	:	5	2	:	8
Dif.	−9 ↓	:	−7 ↓	+4 ↓	:	0 ↓	−6 ↓	:	−5 ↓	+10 ↓	:	−8 ↓
No.	15		15	2 ↓	:	2 ↓	3 ↓	:	3 ↓	6 ↓	:	4 ↓
Mean	−.90 ↓	.	−.70 ↓	+.20 ↓	.	.00 ↓	−.20 ↓	.	−.17 ↓	+.17 ↓	.	−.20 ↓

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Grouping of F Stars. +61° 3′ to Pole.

8h to 16h.

6.5	7.0		7.5	8.0
4 . .	7 . .	1 . .	(10) . .	4 . .
2 . .	0 . .	2 . .	4 . .	
3 . 1	4 . .	2 . .	5 . .	
5 . .	4 . .	2 . .	6 . .	
8 . .	3 . .	9 . .	(12) . .	
4 . .	8 . .	0 . .	(12) . .	
5 . .	9 . .	(11) . .	7 . .	
6 . .	7 . .	0 . .	0 . .	
1 . .	3 . .	2 . .	1 . .	
8 . .	6 . .		5 . .	
1 . .	3 . .		2 . .	
4 . .	2 . .		5 . .	
1 . 3	2 . .			
6 . 4	2 . .			
6 . .	1 . .			
(10) . .	0 . .			
1 . .	2 . .			
	(13) . .			
	3 . 5			
	0 . .			
	1 . .			
	2 . .			
	7 . .			
	9 . .			
	2 . .			
65 . 0	102 . .		69 . .	4 . .
10 . 8 ✓	25 . 5		0 . .	0 . .
+55 ✓ . −8 ✓	+77 ✓ . −5 ✓		+69 ✓ . .	+4 ✓ . .
17 ✓ . 3 ✓	33 ✓ . 1 ✓		12 ✓ . .	1 ✓ . .
+.32 ✓ . −.27 ✓	+.23 ✓ . −.50 ✓		+.58 ✓ . .	+.40 ✓ . .

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Grouping of F Stars. +61° 3′ to Pole.
16h. to 0h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0
		4 . 5			0 . 3	0 . 1
					0 . 6	0 . 7
					5 . 4	2 . 3
					3 . 4	1 . 1
					3 . 1	0 . 2
					3 . 3	4 . .
					6 . 4	1 . 1
					2 . 2	1 . 5
					0 . 2	9 . .
						2 . .
						4 . .

D6.

7728 } 4.77 R.
7729 } R. 3 ✓

7991 5.38 R.R ✓

7994 R R.R ✓

9628 } 6.46 R.. ✓
9629 } R..

Σ+	0	.	0	5	.	0	21 . 1
Σ-	4	.	5	17	.	29	3 . 19
Dif	-4✓	.	-5✓	-12✓	.	-29✓	+18✓ . -18✓
No	1✓	.	1✓	9✓	.	9✓	11✓ . 7✓
Mean	-.40✓	.	-.50✓	-.13✓	.	-.32✓	+.16✓ . -.26✓

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Grouping of F Stars. +61° 3′ to Pole.
16h. to 0h.

6.5		7.0		7.5	8.0
2	1	2	1	5	2
4	(24)	1	6	3	
(11)	(14)	2	3	2	
2	(20)	1	8	5	
4	5	4	0	6	
2		0	(12)	9	
0		6	4	(11)	
(13)		0	(16)	(12)	
9		1	(15)	7	
9		3	(12)	(14)	
6		5	(12)		
2		6	(10)		
(12)		1			
9		4			
2		2			
5		9			
(11)		2			
(11)		8			
4		(15)			
5		6			
0		5			
8		7			
(15)		8			
2		(13)			
2		(12)			
207		204		66	2
7		18		7	0
+200		+186		+59	+2
30		37		10	1
+.67		+.50		+.59	+.20

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D.M. Reid.

Grouping of E. Stars. -0° - -30°

0^h - 1^h

3.0	3.5	4.0	4.5	5.0	5.5	6.0
						2
						4
						1
						1

$\Sigma+$	4
$\Sigma-$	4
Diff.	0
No.	4
Mean.	.00

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Grouping of E. Stars. -0° - -30°.
0h. - 1h.

6.5	7.0	7.5	8.0
.	2	7	
3	5		
2	8		
0	1		
(10)	(10)		
0	9		
(10)			
1			
1			
.			
1			
6			
1			
7			
7			
9			
9			
6			
7			
.			
2			
73	29	7	
9	6	.	
+64	+23	+7	
18	6	1	
+.36	+.38	+.70	

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Grouping of 6 Stars. Dr. Reid. -0° - -30°

2h. - 3h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
				.	.	.	7		
					14	(11)	(12)		
					16	2	.		
						4	16		
						.	15		
						1	5		
						.	5		
						1	2		
						4	6		
						2			
						1			

Σ+	30	26	66
Σ-	.	.	2
Diff.	+30	+26	+64
No.	2	8	8
Mean.	+.15	+.32	+.80

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Grouping of E. Stars. -0°--30°.
4h.-5h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
				6	(13)	(13)	(12)	6		
						7	6	(17)		
						9	0			
						4	7			
						3	(11)			
						1				
						6				
						.				
						4				

6	13	42~~36~~	36	23
.	.	5 .	.	.
+6	+13	+37	+36	+23
1	1	8	5	2
+.60	+1.30	+.46	+.72	+1.15

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Grouping of E. Stars. -0°- -30°
6h - 7h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
				.	3	9	(13)		
				9	.	(21)	(14)		
				(17)	(10)	1	(13)		
				.	.	1	9		
					9	2	5		
					.	5	3		
					(12)		9		
					(14)				
					.				

D.M.	Mag.	Rem.
3803	R	. . .
4275	5.51	R R
4276		R R R
4300	5.71	.
4301		.

Σ+	26	48	36	66
Σ−	.	.	3	.
Diff.	+26	+48	+33	+66
No.	2	5	6	7
Mean.	+1.30	+.96	+.55	+.94

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Grouping of E Stars. -0° - -30°
8h - 9h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
					4	4	5		
					.	2	5		
						1	6		
						3			
						9			
						3			
						9			
						(12)			
						5			
						4			
						2			
						.			

4	48	11
.	6	5
+4	+42	+6
1	11	3
+40	+.38	+.20

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Grouping of E Stars. -0° - -30°
10h. - 11h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
					3	(11)	4	9	
					.	4	2	1	
						.	8		
						4	5		
							3		
							6		
							5		
							.		
							(13)		
							5		
							6		
							4		
							10		
							1		
							4		
Db.							3		
5766 } 6.59		RF.					6		
5767 }		RF.					3		

Σ+	,	19	83	10
Σ−	3	.	5	.
Diff.	-3	+19	+78	+10
No.	1	3	17	2
Mean.	-.30	+.63	+.46	+.50

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Grouping of E Stars. -0° - -30°

12h. - 13h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						0	6	(10)	
						3	4	4	
						1	5	5	
						1	2	(12)	
						3	6	2	
						2	2		
							.		
							(10)		
							2		
							6		
							(11)		
							(10)		
							(11)		
							7		
							.		
							8		
							4		
							2		
							.		

6258 } 643 RR.
6259 } RR.

9	~~8~~ 90	26
1	2	7
+8	+88	+19
6	15	5
	59	
+.13	+.~~58~~	+.38

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Grouping of E Stars. −0° – −30°

14h – 15h

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
				.	,	8	5	2	
					.	.	2		
						8	.		
						(13)			
						6			
						.			

6936 R . . .

Σ+	.	.	35	.	2
Σ−	.	.	.	7	.
Diff.	.	.	+35	−7	+2
No.	.	.	4	2	1
Mean.	.	.	+.88	−.35	+.20

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Grouping of E Stars. -0° - -30°.
16h. - 17h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
					.	.	4		
					.	2	2		
					.	2	8		
						.	10		
						2			
						.			

.	6	22
.	.	2
.	+6	+20
.	3	4
.	+.20	+.50

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nasa.1882phae.proj..872F

Grouping of E Stars. −0° – −30°
18h – 19h

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						4	.		
						6	1		
						3	1		
						.	7		
						2	1		
						9	3		
						.	9		
						.	(10)		
						9	(12)		
						3	(11)		
						8	(17)		
						4	.		

Σ+	42	69
Σ−	6	3
Diff.	+36	+66
No.	9	10
Mean	+4.0	+6.6

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Grouping of E Stars. -0° - -30°
2$\mathfrak{h}$ - 21$\mathfrak{h}$

3.0 3.5 4.0 4.5 5.0 5.5 6.0 6.5 7.0 7.5

4

4

8

+8

2

+40

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Grouping of E. Stars. −0° - −30°

22 h. - 23 h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						8	4		
						4	.		

Σ+	12	.
Σ−	.	4
Diff.	+12	−4
No.	2	1
Mean.	+.60	−.40

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Grouping of E. Stars. +0° – +29° 59′

0h. – 1h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						3	(10)	3	
						6	(12)	2	
							1	5	
							0	6	
							6	(13)	
							4	8	
							3	5	
							4	(13)	
							(14)	(11)	
							8	2	
							8	6	
							(11)	5	
							3	4	
							3	5	
							(10)	3	
							(16)	0	
							(10)	9	
							5	(11)	
							(13)	7	
							3		
							6		

6	147	109
3	3	9
+3	+144	+100
2	21	19
+.15	+.69	+.53

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Grouping of E Stars. +0° - +29° 59'

2h. - 3h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
					1	5	4	(10)	
					3	(11)	(12)	9	
						(15)	(11)	8	
						(22)	2	6	
						8	(17)	8	
						(12)	(12)	(11)	
						0	6	3	
						5	9		
							(10)		
							(12)		
							5		
							(11)		
							2		
							(17)		
							9		
							(12)		
							8		
							5		
							5		
							(11)		
							(11)		
							6		
							(12)		
							*(12)		

*No. 2708

Σ+	1	78	221	44
Σ−	3	.	.	11
Diff.	-2	+78	+221	+33
No.	2	8	24	7
Mean.	-.10	+.98	+.92	+.47

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Grouping of E Stars. +0° – +29° 59′

4h – 5h

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
					(16)	5	(15)	(13)	
					3	2	(10)	6	
						5	6		
						4	(11)		
						8	(12)		
							7		
							8		
							6		
							2		
							3		
							3		
							5		
							4		
							(10)		
2415 } 6.54 R 1.5							(13)		
2416 } R							7		
							(12)		
							0		
							7		
							(11)		

19	22	148	19
	2	4	
−19	+20	+144	+19
2	5	20	2
−.95	+.40	+.72	+.95

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Grouping of O Stars. +0°-+29° 59'

6h.-7h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
					9	(12)	(15)	6	
						(10)	(12)	(17)	
						3	5	(17)	
						1	7		
						8	(11)		
						(15)	9		
						6	7		
						9	(14)		
						(14)	9		
							(11)		
							4		
							(13)		
							(14)		
							6		
							6		
							(12)		
							2		
							3		

$\Sigma+$	9	77	160	40
$\Sigma-$	.	1	.	.
Diff.	+9	+76	+160	+40
No.	1	9	18	3
Mean:	+90	+.84	+.89	+.13

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Grouping of E Stars. +0° - +29° 59'
8h. - 9h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						1	3	7	6
						4	(12)	2	5
						(15)	5	3	2
						(13)	7	8	
						6	(15)	(10)	
							7	1	
							3	9	
							6	(10)	
							4	(12)	
							(12)	0	
							6	7	
							5	2	
							1	9	
							5	3	
							6	0	
							4		
							(11)		
							1		
							5		
							1		
							1		
							2		
							9		
						33	131	81	13
						6	.	2	.
						+27	+131	+79	+13
						5	23	15	3
						+.54	+.57	+.53	+.43

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Grouping of E Stars. +0° - +29° 59'

10h.-11h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						3	4	7	
						(11)	0	7	
							4	(11)	
							1	4	
							3	(10)	
							8	(10)	
							4	9	
							8	(11)	
							9	2	
							8	7	
							6	7	
							8	1	
							2	0	
							7		
							(17)		
							(11)		
							(11)		
							4		
							6		
							8		

Σ+	14	121	86
Σ−	.	8	1
Diff.	+14	+113	+84
No.	2	20	13
Mean.	+.70	+.56	+.65

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Grouping of E Stars. +0°-+29° 59'
12h.-13h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						8	8	5	
						4	2	7	
						3	8	1	
							8	(10)	
							6	4	
							7	4	
							(11)	9	
							0	(14)	
							3	2	
							2	4	
							2	5	

7	51	53
8	6	12
-1	+45	+41
3	11	11
-.03	+.41	+.37

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Grouping of ℰ Stars. +0° - +29° 59'.

14h - 15h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						1	1		
							1		
							3		
							(10)		
							4		
							7		
							3		

Σ+	1	29
Σ−		
Diff.	-1	+29
No.	1	7
Mean.	-.10	+.41

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Grouping of E Stars. +0° - +29° 59'
16h - 17h

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						2	5	8	
							3		
							5		
							0		
							4		
							5		
							6		
							2		
							0		
							2		
							1		

.	14	8
2	19	.
-2	-5	+8
1	11	1
-.20	-.05	+.80

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Grouping of E Stars. +0° - +29° 59'
18h. - 19h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
					0	1	8	(13)	
						9	5	7	
						(12)	(10)		
						6	0		
						7	9		
							1		
							9		
							3		
							6		
							(14)		

D6.

8173 } 6.64 RF.
8174 }

8290 R ...

Σ+	0	28	56	20
Σ−	.	7	9	.
Diff.	0	+21	+47	+20
No.	1	5	10	2
Mean	.00	+.42	+.47	+.10

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Grouping of E Stars. +0° - +29° 59'
20h - 21h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						3	6		
						5	4		
						0	(16)		
							5		
							7		
							6		
							1		
							2		
							(10)		
							(12)		

5	42
3	27
+2	+15
3	10
+.07	+.15

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Grouping of E Stars. +0° - +29° 59'

22h - 23h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
							0	3	
							7		
							0		
							8		
							6		
							3		
							(11)		
							0		
							3		
							7		
							8		
							50	3	
Σ+									
Σ−							3	.	
Diff.							+47	+3	
No.							11	1	
Mean.							+.43	+.30	

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Grouping of E. Stars. +30°.0' - +61° 2'
2h 0m.0 - 2h 39m.9

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						(10)	(12) 3	(13) 1	(11)
						8	7	5 4	(12)
						8	3	(10) 9	
						4	7	7 9	
						4	(11)	6 (14)	
						8	(14)	(10) 6	
							4	7 4	
							(11)	4 4	
							7	3 (12)	
							7	2 4	
							2	9 (10)	
							0	6 6	
							2	3 4	
							3	(11)	
							(10)	6	
							4	8	
							3	5	
							5	(11)	
							5	4	
							(15)	0	
							6	8	
							2	2	
							6	2	
							1	1	
							9	1	
						42	151 5	228	23
							4	3	
						+42	+151	+225	+23
						6	26	38	2
						+.70	+.58	+.59	+1.15

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Grouping of ℰ Stars. +30° 0′ - +61° 2′

2h 40.0m - 5h 19.9m

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
					8	3	0 3	(14)	
					8	8	(12) 2	4	
						1	2 (11)	0	
							4 1	3	
							2 (12)	2	
							5 4	7	
							1 (15)	8	
							5 5	3	
							1	(13)	
							(11)	9	
							9	6	
							(10)	9	
							1	2	
							1	6	
							8	7	
							1	8	
							1		
							1		
							0		
							4		
							4		
							5		
							(11)		
							6		
							2		
Σ+					8	11	149	101	
Σ−					8	1	11		
Diff.					0	+10	+138	+101	
No.					2	3	33	16	
Mean.					.00	+.33	+.42	+.63	

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Grouping of E Stars. +30° 0' - +61° 2'

5h 20.0m - 7h 59.9m

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						9	1	(10)	
						(19)	6	7	
						4	(13)	4	
						3	(13)	9	
						(12)	(17)	(11)	
						9	(13)	6	
						1	5	(15)	
						1	0	4	
						1	4	7	
						1	(11)	7	
							1	4	
							9	2	
							1	6	
Lb.							(13)	2	
3079 } 6.54 R..							(11)	(10)	
3080 } R..							8	7	
							(14)	4	
							5	0	
							(10)	8	
							(13)	(10)	
							4		
							2		
							7		
							9		
							5		
						5-9/1	191/4	129/4	
						+58	+187	+125	
						10	25	20	
						+.58	+.75	+.62	

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Grouping of E Stars. $+30^\circ\ 0'$ – $+61^\circ\ 2'$

$8^{h.}\ 0.0^{m.}$ – $10^{h.}\ 39.9^{m.}$

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						4	1 8	1 5	
						(10)	8 (11)	5 3	
						3	1 5	(11) (18)	
						3	4 8	7 (14)	
							0 3	(10) (15)	
							2 6	9 (12)	
							4 8	9 7	
							8 7	1 6	
							5 6	(12) 9	
							8 1	6 5	
							0 2	6 (12)	
							2 3	(11) 7	
							9 4	7 5	
							4 0	(15) (12)	
							5 4	2 2	
							(11) 4	2 8	
							9 1	8 2	
							(15)	5 5	
							9	(16) 3	
							9	(11) 4	
							(17)	(12)	
							(10)	2	
							3	8	
							7	(10)	
							(12)	(13)	
Σ+						20	~~27~~ 231	340	
Σ−						.	13	13	
Diff.						+20	+218	+327	
No.						4	42	45	
Mean.						+.50	+.52	+.73	

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Grouping of E Stars. +30° 0′ - +61° 2′
10h. 40.0m. - 13h. 19.9m.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
							3	1	5
							6	6	3
							2	7	7
							7	0	
							1	7	
							2	3	
							3	5	
							5	4	
							5	(4)*	
							7	5	
							3	2	
							9	(12)	
							7	3	
							6	2	
							2	2	
							(14)	2	

D.6.
6054 691 4. R cum.

78	49	12
4	12	3
+74	+37	+9
16	15	3
+.46	+.25	+.30

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1882phae.proj..872F

Grouping of E Stars. $+30°0' - +61°2'$

$13^{h.}20.^{m.}0 - 15^{h.}5.^{m.}9$

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
							3	(11)	(13)
							0	4	2
							6	3	
							1	7	
							2	3	
							1	3	
								1	
								1	
								0	
								0	

$\Sigma+$		9	11
$\Sigma-$		4	22
Diff.		+5	−11
N.		6	10
Mean.		+.08	−.11

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Grouping of E. Stars. +30° 0' - +61° 2'

16h. 0m.0 - 18h. 39m.9

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
						2	2	4	2	0
						2	1	0	1	1
							8	3	4	2
							9	0	3	5
							6	7	4	3
							(18)	3	0	2
								5	1	6
								3	6	1
								2	2	6
								1	6	1
								1	3	(10)
								0	6	8
								0	1	5
								5	9	1
									5	
									7	
									4	
									2	
									3	
									6	

1	41	25	28	26
4	3	9	47	25
-4	+38	+16	-19	+1
2	6	14	20	14
-.20	+.63	+.11	-.95	+.01

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Grouping of E. Stars. $+80^\circ\ 0.0^m$ - $+61^\circ 2'$
$18^h\ 40.0^m$ - $21^h\ 19.9^m$

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						7	3	(12)	
						2	(11)	1	
						8	1		
						7	4		
						7	(13)		
						3	(11)		
						5	3		
						6	6		
						2	8		
							1		
							(10)		

Σ+	47	39	1
Σ−	2	14	12
Diff.	+45	+45	−11
No.	9	11	2
Mean.	+.50	+.41	−.55

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Grouping of E Stars. $+30^\circ\ 0.0^m - +61^\circ\ 2'$
$21^h\ 20.0^m - 23^h\ 59.9^m$

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
						(15)	8	2	
							3	9	
							4	5	
							(12)	3	
							1	0	
							9	2	
							8	6	
							(10)	9	

15	55	28
,	,	8
+15	+55	+20
1	8	8
+1.50	+.69	+.25

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Grouping of ℰ Stars. +61° 3' to Pole.
0h to 8h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
							3	1 (13)	8
							(13)	(15) 5	(10)
							(15)	(12) 9	(10)
							(14)	5 5	9
							3	(16) 2	7
							5	2 (12)	(12)
							8	(18) 7	(16)
							3	(14) 3	(11)
							4	6 5	1
							1	5 7	8
							(17)	3 0	(10)
							6	8 (10)	9 *
							6	1 0	(14)
							(13)	9 7	
							8	(10) (12)	
							(12)	4 8	
							4	(12) 0	
							1	4 4	
								1 (18)	
								4	
								6	
								(13)	
								(12)	
								3	
								(15)	
							134	321	125
							2	5	
							+132	+316	+125
							18	44	13
							+7.3	+7.2	+.96

D6.

2799 } 7.31 R..
2800 }

* No. 10487

Σ+
Σ−
Diff.
No.
Mean.

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Grouping of E. Stars. +61° 3' to Pole.

8h to 16h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
							5	4 (12) 8	8 6 3	(11)
							(12)	3 9 4	6 9 (11)	7
							(12)	0 (11) 6	1 9 (10)	6
								7 3 2	5 (13) 4	(12)
								(10) 2 8	7 9 8	4
								(15) 0 2	(13) 3 (11)	5
								3 3	(10) (11) 8	(12)
								9 4	6 (14) 5	(12)
								(13) 2	9 5 (10)	(10)
								(11) 2	7 (11)	
								5 0	(12) (12)	
								7 1	7 1	
								5 2	8 2	
								7 2	(13) (15)	
								3 (11)	0 3	
								(10) 0	9 3	
								6 4	(10) 7	
								(10) 7	9 (10)	
								8 3	6 6	
								3 5	9 3	
								(12) 7	9 (12)	
								3 2	(12) 8	
								0 1	9 8	
								2 4	8 4	
								(11) 1	9 (10)	
							17	267	446	79
								28	21	
							+17	+239	+425	+79
							2	56	59	9
							+.85	+.43	+.72	+.88

No.

5108 } 7.96 R..
5115 } R R..
5561 R ...
5809 } 7.74 R..
5812 } R R..
6946 } 6.93 R..
6947 } R..

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Grouping of E Stars. +61° 3′ to Pole.
16h. to 0h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5	8.0
						1	6	3 (14)	5	5
						1	7	2 (11)	8	
						8	5	(10) (14)	8	
						(13)		5 7	(11)	
								7 (18)	1	
								2 (16)	4	
								(12) (14)	2	
								5 (17)	0	
								(17) (10)	4	
								(13)	2	
								2	(10)	
								(15)	5	
								5	5	
								(13) 7	3	
								4	(10)	
								9	(12)	
								(17)	6	
								6		
								8		
								2		
								8		
								9		
								7		
								(17)		
								(14)		
Σ+						23	18	325	91	5
Σ−						.	.	10	5	.
Diff.						+23	+18	+315	+86	+5
No.						4	3	34	17	1
Mean.						+.58	+.60	+9.3	+.5 8/17	+50

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A Stars. Grouping of H.P. Stars according to H.P. -0.0- -30° i'
0 1. - 1 2.

5.0	5.5	6.0	6.5	7.0	7.5
0	1	2	6	5	14
0	1	1	0		
5	2	0	2		
3	0	6			
	0				
	1				
	0				

0	1	0	6	5	14
8	4	9	2	.	.
-8	-3	-9	+4	+5	+14
4	7	4	3	1	1
-.20	-.04	-.22	+.13	+.50	+1.40

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A. Stars. Grouping of H. P. Revd. according to H. P. -0° - -30° 0'

2h. - 3h.

4.0	4.5	5.0	5.5	6.0	6.5	7.0
5	0	1	0	1	5	4
	2	2	1			
	3	0	1			
	2	2	5			
		2	3			
		0	0			
		1	3			
		(10)	3			
			0			
			3			
			2			
			0			
			2			
			2			

Σ+	.	0	3	14	1	5	+4
Σ-	5	7	15	11	.	.	.
Diff.	-5	-7	-12	+3	+1	+5	+4
No.	1	4	8	14	1	1	1
Mean.	-.50	-.18	-.15	+.02	+.10	+.50	+.40

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$-0° - -30°$

$4^h - 5^h$

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
7	3	1	0	5	1	1	0	
	2	7	2	3	3	4	2	
	3		9	0	1	4		
	3		0	3	0	0		
			1	1	1	2		
			1	3	2	5		
				0	2	4		
				5	0	1		
				1	5	5		
				1	3	2		
				1	0	1		
				1	2	3		
					0	0		
					3	2		
					2			
					3			
					3			
					4			
					4			
					1			

2784 511,3 rad. R 2

3175 B R R R

3237 } B R R R
3238 }

3306 B R R R

7	11	7	11	12	32	20	.
-7	-11	-6	-9	0	-24	-6	+2
1	4	2	6	12	20	14	2
-.70	-.28	-.30	-.15	.00	-.12	-.04	+.10

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$-0° - -30° 0'$

$6^h - 7^h$

3.0	4.0	4.5	5.0	5.5	6.0	6.5
5	0	2	3	2	2	1
	1	0	1	2	2	3
	1	3	0	3	3	4
	1	7	1	2	5	
	8	0	1	1	4	
		2	2	1	4	
		5	3	2	3	
		3	3	0	7	
		4	1	0	2	
		2	4	(12)	2	
			0	1	6	
			3	2	2	
			0	1	3	
3713 R ...			3	0	2	
3797 B RRR			1	0		
3939 B . RR			3	1		
4297 } 386.60				5		
4298 }						

$\Sigma+$	1	1	0	4	11	41	4
$\Sigma-$	5	10	28	25	24	6	4
Diff.	-5	-9	-28	-21	-13	+35	0
No.	1	5	10	16	17	14	3
Mean	-.50	-.18	-.28	-.13	-.08	+.25	.00

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$-0° \div -30°$

$8^h - 9^h$

4.0	4.5	5.0	5.5	6.0	6.5
1	1	3	3	1	3
	3	1	2	1	
		2	0	2	
		1	2	3	
		4	1	0	
		1	1	0	
		6	1	0	
			0	2	
			0	2	
			3		

1	4	18	7/6	5/6	3
-1	-4	-18	+1	-1	+3
1	2	7	10	9	1
-.10	-.20	-.26	+.01	-.01	+.30

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-0° - -30°

10h - 11h

4.0	4.5	5.0	5.5	6.0	6.5
2	2	0	3	1	4
	4	1	2	1	
	3	6	1	5	
	2	1	4	3	
		1	2	3	
			1	2	
				2	

Σ+		2	0	3	8	4
Σ-	2	9	9	10	9	
Diff.	-2	-7	-9	-7	-1	+4
No.	1	4	5	6	7	1
Mean.	-.20	-.18	-.18	-.12	-.01	+.40

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1992phae.proj..872F

-0° - -30°

$12^h - 13^h$

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
5	5	2	4	2	4	4	5
3			2	0	3	1	1
					3	1	
					1	2	
					1	1	
						2	
						6	

6450 B R R R

6496, 5.83 ⊥ R ⊥ var.

.	.	.	'	0	8	14	6
8	5	2	6	2	4	3	.
-8	-5	-2	-6	-2	+4	+11	+6
2	1	1	2	2	5	7	2
-40	-50	-20	-30	-10	+.08	+.16	+.30

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1882phae.proj..872f

92

$-0° - -30°$

$14^h - 15^h$

2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
4	3	2	6	1	2	1	3	4
					6	1	1	
					2	1	3	
					6	0	2	
					0	2	5	
					0	1	2	
					0	2	0	
						3	5	
						0		
						7		
						4		

6878 519 m. var. R R 8

$\Sigma+$	'	'	'	'	.	6	20	19	4
$\Sigma-$	4	3	2	6	1	10	2	2	.
Diff.	-4	-3	-2	-6	-1	-4	+18	+17	+4
No.	1	1	1	1	1	7	11	8	1
Mean.	-.40	-.30	-.20	-.60	-.10	-.06	+.16	+.21	+.40

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1892phae.proj..872F

$-0° - -30°$

$16^h - 17^h$

2.5	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
4	8	3	1	3	2	3	4	0
	9			0	2	2	1	
	5			2	1	1	0	
				1		4	2	
				0		0	2	
				1		3	1	
				1			6	
				0				
				1				

.	.	,	.	2	1	12	6	0
4	22	3	1	7	4	1	10	.
-4	-22	-3	-1	-5	-3	+11	-4	0
1	3	1	1	9	3	6	7	1
-.40	-.73	-.30	-.10	-.06	-.10	+.18	-.06	.00

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1882phae.proj..872F

$-0° : -30°$

$18^h - 19^h$

3.5	4.0	4.5	5.0	5.5	6.0	6.5
3	9	2	1	2	3	1
2		0	3	3	3	8
		3	3	3	3	
			3	1	6	
			3	1	2	
			7	0	4	
			2	0	4	
				3	3	
				1	1	
				1	8	
				0	3	

8797 5.25 mi. R 6

$\Sigma+$	0	0	0	1	10	39	8
$\Sigma-$	5	9	5	21	5	1	1
Diff.	−5	−9	−5	−20	+5	+38	+7
No.	2	1	3	7	11	11	2
Mean.	−.25	−.90	−.17	−.29	+.05	+.35	+.35

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1882phae.proj..872F

$-0° \div -30°$

$20^{h} - 21^{h}$

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
5	2	2	3	1	3	5	2	
			1	0	1	1		
			1	4	1	2		
			1	1	0	2		
				1	2	1		
				4	2	3		
					3	4		
					2	2		
					5	2		
						(11)		

.	.	2	1	1	6	25	2
5	2	.	5	10	13	8	.
-5	-2	+2	-4	-9	-7	+17	+2
1	1	1	4	6	9	10	1
-.50	-.20	+.20	-.10	-.15	-.08	+.17	+.20

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1882phae.proj..872F

$-0^{\circ} - -30^{\circ}$

$22^{h} - 23^{h}$

3.5	4.0	4.5	5.0	5.5	6.0	6.5
4	0	2	2	3	3	4
	1	1	1	1	0	4
	3	3	2	1	5	6
		0	4	1	1	1
		(12)		2	1	3
		2		1	3	
				2	2	
				0	0	
				2		
				0		
				1		
				2		

$\Sigma+$	1	0	1	1	11	15	15
$\Sigma-$	4	4	19	8	5	0	3
Diff.	−4	−4	−18	−7	+6	+15	+12
No.	1	3	6	4	12	8	5
Mean.	−.40	−.13	−.30	−.18	+.05	+.19	+.24

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1882phae.proj..872F

A. Stars. Grouping of H.P. Reid. according to H.P. +0° - +29° 59'

0 h. - 1 h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
5			1	2	1	4	3		
9				1	2	0			
					1	1			
					1	0			
					1	1			
					1	4			
						1			
						1			
						2			
						1			
						2			
						2			
						1			
						2			
						1			
						2			

Dh.

20 B R . R

570 } R² / 12 .
571 } R . 2

669 } 3 R / 22 5.49 1 5
670 } R

1041 } 3.95 ~~5 2 2~~ 5 2 3
1042 } ~~4 0 1~~

1132 } 409 6 3 1
1133 }

.	,	.	2	12	3
14	1	3	5	13	,
−14	−1	−3	−3	−1	+3
2	1	2	6	16	1
−.70	−.10	−.15	−.05	−.01	+.30

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1882phae.proj..872F

+0° - +29° 59'

2h. - 3h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
	3	4	0	0	2	1	5	
		6	2	3	2	4	3	
		2	4	0	3	3	0	
		2	0	1	1	2		
		2	3	3	2	4		
		2		1	0	1		
		5			2	6		
					1	1		
					2	1		
					1	2		
					1	1		
					2	4		
					1	2		
					5	1		
					3	2		
					2	3		
					1			
					5			

1703 } 4.75 6 2 2
1704 }

1754 } 5.24 8. 1
1755 }

2160 B R. R

Σ+	.	.	0	2	20	30	8
Σ−	3	23	9	6	16	8	0
Diff.	−3	−23	−9	−4	+4	+22	+8
No.	1	7	5	6	18	16	3
Mean.	−.30	−.33	−.18	−.07	+.02	+.14	+.27

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1002phae.proj.:872F

+0° - +29° 59'

4h - 5h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
4	2	5	1	9	1 2	3	1
			5	3	5 1	1	0
			4	2	4 5	2	2
			3	2	2 1	2	
			1	0	3 0	2	
			2	2	2 1	1	
			1	1	2 1	1	
			2	1	0 4	4	
			2	2	1 0	2	
			3	1	0 3	1	
			0	3	1 0	2	
			1	1	3 3	2	
			1	5	2 3	2	
			3	3	2 2	1	
				1	2 2	2	
				1	0 1	3	
				3	2 5	0	
				0	3 3	4	
				3	0 3	2	
				0	3	1	
				1	1		
				2	0		
					2		
					0		
					0		
.	.	.	5	11	28	32	2
4	2	5	24	35	53	6	1
-4	-2	-5	-19	-24	-25	+26	+1
1	1	1	14	22	44	20	3
-.40	-.20	-.50	-.14	-.11	-.06	+.13	+.03

2783 5.90, R 31 m.
3040 B R.R
3152 } 346 000
3153 }

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1882phae.proj..872F

+0°-+29° 59′

6h.-7h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
3	4	1	2	1	0	0	4
	5		3	2	0	0	0
			3	4	1	2	3
			4	3	3	2	2
				2	2	2	
				1	1	1	
				1	0	3	
				1	1	2	
				2	1	0	
				3	1	4	
				0	1	3	
				2	2		
D.6.				0	1		
2646 5.87 16. R cum.					6		
3734 B R. R					1		
					6		
					1		
					2		
					1		
					5		
					0		
					2		
					3		
					3		
Σ+	,	,	,	4	3	26	16	7
Σ−	3	9	1	8	19	18	3	2
Diff.	−3	−9	−1	−4	−16	+8	+13	+5
No.	1	2	1	4	13	24	11	4
Mean.	−.30	−.45	−.10	−.10	−.12	+.03	+.12	+.12

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1992phae.proj.:872F

+0° - +29° 59′

8h - 9h

4.0	4.5	5.0	5.5	6.0	6.5
1	2	1	3	2	1
0	1	0	0	4	4
1		3	1	2	1
			3	3	3
			0	1	
			1	2	
			4	0	
			1	2	
			4	2	
			1	0	
			0	5	

H.

4663 6.31 9. R cum.

0	1	1	9	4	1
2	3	3	9	19	9
-2	-3	-2	0	-15	-9
3	2	3	11	11	4
-.07	-.15	-.07	.00	-.14	-.22

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1882phae.proj..872F

+0° - +29° 59'

10 h. - 11 h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
4	3	0	0	1	1	3	3
	1	1	0	0	0	0	7
			0	0	1	0	
			4	0	1	1	
				0	7	2	
					1	4	
					3		
					1		
					2		
					1		
					1		

5279 B R . R

5908 B R . R

Σ+	1	1	1	0	1	9	4	10
Σ−	4	4	0	4	0	10	6	.
Diff.	−4	−4	+1	−4	+1	−1	−2	+10
No.	1	2	2	4	5	11	6	2
Mean.	−.40	−.20	+.05	−.10	+.02	−.01	−.03	+.50

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1992phae.proj.:872F

+0°-+29°59'

12h.-19h.

4.5	5.0	5.5	6.0	6.5
2	1	1	1	3
	8	2	1	4
	4	1	5	0
	4	1	1	1
	3	2	1	0
	1	0	1	
	0	2	3	
	1	2	1	
		2	2	
		2	1	
		2	0	

Dh.

6143 6.65 6.R

6145 5.39 6.R

.	2	7	10	7
2	20	10	7	1
-2	-18	-3	+3	+6
1	8	11	11	5
-.20	-.22	-.03	+.03.	+.12

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1882phae.proj..872F

+0° - +29° 59'

14h. - 15h.

3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
4	4	0	1	0	1	2	5
3	1		0	1	3	1	
	0		2	0	2	4	
			2	3	3		
			1	1	2		
			0	0	2		
				3	1		
				1			

D.

6787 } 4.64 8.0
6788 }

6789 } 4.02 5.2
6790 }

6968 6.65 1. R

7053 } 4.05 7.0
7054 }

7056 B R. R

Σ+	1	1	0	1	5	5	5	5
Σ-	7	4	.	5	4	9	2	.
Diff.	-7	-3	0	-4	+1	-4	+3	+5
No.	2	3	1	6	8	7	3	1
Mean.	-.35	-.10	..00	-.07	+.01	-.06	+.10	+.50

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1882phae.proj.-872F

+0° - +29° 59'

16h. - 17h.

2.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
7	4	5	2	2	1	1	3
		1	6	6	1	0	3
		0	0	1	0	1	2
			1		0	0	
					1	1	
					1	0	
					2	2	
					0	2	
					0	1	
					1	2	
						3	
						0	
						2	
						2	
						2	
						6	
						4	
						2	
						1	
						2	
						0	
						2	

D6.

7362 } 5.53 RRR
7363 } RRR

7696 } 5.58 R
7697 } R 32

7866 } 4846.2
7867 }

'	'	'	8	'	5	12	6
7	4	6	1	9	2	24	2
-7	-4	-6	+7	-9	+3	-12	+4
1	1	3	4	3	10	22	3
-70	-40	-20	+18	-30	+30	-05	+13

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1882phae.proj..872F

+0° - +29° 59'

18h. - 19h.

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
4	5	2	0	2	0	2	4	
		1	1	2	1	0	2	
			9	2	2	0	2	
			1	0	1	1	4	
				8	0	1		
				4	0	1		
				2	5	1		
				4	1	0		
				0	1	5		
				0	1	1		
				4	2	2		
				0	2	2		
				1	2	1		
				3	1	4		
					1	5		
					8	2		
					1	1		
					0			
					1			
					3			
					3			
					4			
					2			

D6.

7946 } 5.41 5.2
7947 }

8168 6.65 21 R R (cum cum)

8461 } 4.51 R
8462 } R ⊥ 4

8476 5.45 4 6 R

8771 } 2? 4.31 R.
8772 } 4? R. (13)

8907 B R R R

Σ+	.	.	.	1	6	12	20	12
Σ−	4	5	3	10	26	30	9	.
Diff.	−4	−5	−3	−9	−20	−18	+11	+12
No.	1	1	2	4	14	23	17	4
Mean.	−.40	−.50	−.15	−.22	−.16	−.08	+.07	+.30

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1882phae.proj..872F

+0°-+29° 59'

20h - 21h

4.0	4.5	5.0	5.5	6.0	6.5
1	2	0	1	0	7
2	2	1	3	5	1
5	8	2	2	1	
		1	2	5	
		1	2	3	
		7	1	7	
		4	4	2	
		1	1	1	
		6	4	4	
		2	0	2	
		1	3	2	
			1		
			2		
			1		
			1		

H.

9331 } 6.07 R..
9332 } R..

3	8	3	8	26	8
5	4	23	20	6	.
-2	+4	-20	-12	+20	+8
3	3	11	15	11	2
-.07	+.13	-.18	-.08	+.18	+.40

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1882phae.proj..872F

+0° - +29° 59'

22h - 23'

3.5	4.0	4.5	5.0	5.5	6.0	6.5
2	4	0	1	2	2	2
		2	0	0	1	2
		3	0	0	0	4
			1	1	0	
			2	3	2	
			2		4	
			1		5	
					1	
					1	

D.C.

10033 B R. R

Σ+	.	.	.	3	.	11	8
Σ−	2	4	5	4	6	5	.
Diff.	-2	-4	-5	-1	-6	+6	+8
No.	1	1	3	7	5	9	3
Mean.	-.20	-.40	-.17	-.01	-.12	+.07	+.27

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1882phae.proj..872F

A. Stars. Grouping of H.P. Recd. according to H.P. +30° 0' - +61° 2'
0h 0.0m - 2h 39.9m

3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5
9	3	5	5	1	0	1	7
7		2	0	2	1	2	0
			1	1	1	3	2
			2	1	2	2	2
			1	3	0	0	
			2	0	2	2	
				1	3	2	
				1	1	2	
				1	4	1	
				1	1	1	
				2	1	2	
				0	0	2	
				2	2	0	
				3	0	5	
					1	1	
					1	4	
					1	0	

D.C.
1552 676 Cum. cum. R.R

.	'	.	0	2	12	21	7
18	3	7	11	17	9	9	4
-18	-3	-7	-11	-15	+3	+12	+3
2	1	2	6	14	17	17	4
-.90	-.30	-.35	-.18	-.11	+.02	+.07	+.08

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1882phae.proj..872F

+30° 0′ - + 61° 2′

h. m.
2 40.0 - 5° 19.9

	3.0	4.0	4.5	5.0	5.5	6.0	6.5
	8	7	2	1	2	8	4
		6	1	0	0	2	
		4	2	2	1	2	
		3	3	3	2	1	
			2	2	1	2	
				0	2	4	
				5	1	0	
				1	2	0	
				2	1	0	
				1	2	1	
				1	3	1	
				1	0	3	
Yb.				2	2	2	
1771 B	m. R. R			1	0	1	
2041 B	R. R			7	1	4	
2249 B	R. R			1	3	1	
2808 } 5.25	R. R			1	1	4	
2809 }	R..			2	3	3	
2833 B	R. R			2	3	3	
3020 } 5.68	R. R			0	3		
3021 }	R. R				0		
					2		
					1		

Σ+				7	18	27	4
Σ−	8	20	10	28	18	15	
Diff.	−8	−20	−10	−21	0	+12	+4
No.	1	4	5	20	23	19	1
Mean	−.80	−.50	−.20	−.10	.00	+.06	+.40

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1882phae.proj..872F

$+30^\circ 0' + 61^\circ 2'$

$5^h\ 20.0^m - 7^h\ 59.9^m$

2.0	2.5	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
(14)	8	2	5	3	0	1	0	2	5
				4	1	2	1	0	
				0	1	2	1	1	
					1	3	3		
					2	1	2		
					0	5	0		
					2	3	3		
					1	1	1		
						6	1		
							0		
							1		

D.6.

4247 } B R R. R
4248 }

,	,	,	,	,	2	3	12	2	5
14	8	2	5	7	6	21	1	1	.
-14	-8	-2	-5	-7	-4	-18	+11	+1	+5
1	1	1	1	3	8	9	11	3	~~+5~~ 1
-1.40	-.80	-.20	-.30	-.23	-.05	-.20	+.10	+.03	+.50

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1882phae.proj..872F

212

+30° 0′ - +61° 2′

$8^{h}\ 0.0^{m} - 10^{h}\ 39.9^{m}$

3.5	4.0	4.5	5.0	5.5	6.0	6.5
1	2	4	2	3	1	1
2		1	3	0	2	1
		2	0	0	1	7
		3	1	2	4	
			2	2	1	
				3	0	
				0	1	
				0		
				1		
				0		
				0		
				2		

D.6.

4790 B R. R

Σ+	1	.	.	6	4	8	1
Σ-	2	2	10	2	9	2	8
Diff.	-1	-2	-10	+4	-5	+6	-7
No.	2	1	4	5	12	7	3
Mean.	-.05	-.20	-.25	+.08	-.42	+.09	-.23

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+30° - +61° 2'

10 h. 40.0 m. - 13 h. 19.9 m.

2.5	3.5	4.5	5.0	5.5	6.0	6.5	7.0	7.5
(12)	3	6	2	1	2	2		7
3			0	0	3	2		
			0	3	2	1		
			3	1	1	4		
			1	2	4	3		
				0	4	4		
				4	5	0		
					3			
					1			
					0			

D.C.

5936 } 616 R.
5937 } R. 4

6267 } B R. R

6278 } B R. R
6279 }

6448 } B R. R
6449 }

'	'	'	3	2	1	7	7
-15	3	6	8	9	24	9	.
-15	-3	-6	0	-7	-23	-2	+7
2	1	1	5	7	10	7	1
-.75	-.30	-.60	.00	-.10	-.23	-.03	+.70

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+30°0′ - +61°2′

13h 2m 40.0 - 15h 59m 9

3.0	4.0	4.5	5.0	5.5	6.0	6.5
3	3	3	1	1	0	1
		2	2	1	1	2
		1	3	1	5	0
			1	1	4	1
			3	0	1	1
			1	0	1	
				1	3	
				4	2	
				2	0	
				1	2	
				2	6	
				3	2	
				1	0	
				2	2	
					2	

G6.

65-66 B R.R

#

Σ+	1	.	2	1	15	59	1
Σ-	3	3	4	10	5	22	4
Diff.	-3	-3	-2	-9	+10	-13	-3
No.	1	1	3	6	14	15	5
Mean.	-.30	-.30	-.07	-.15	+.07	-.09	-.06

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$+30^\circ 0' - +61^\circ 2'$

$16^h\ 0.0^m - 18^h\ 39.9^m$

4.0	4.5	5.0	5.5	6.0	6.5
1		6	3	1	1
2		1	1	1	1
1		1	4	1	4
		5	4	5	3
		6	1	3	1
		0	3	3	1
		3	3	0	1
		2	0	1	
			0	1	
			0	3	
				1	
				1	
				0	
				1	
				2	
				0	

D.b.

7355 } R. R
7356 } 4.37
7357 } R. R

7569 } 436 ± .3
7570 }

7903 6.04 2 . R

8280 B R. R

1	:	1	2	9	10
3	.	23	17	15	2
−2	.	−22	−15	−6	+8
3	.	8	10	16	7
−.07	.	−.28	−.15	−.04	+.11

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+30° 0′ - +61° 2′

18h 40.0m - 21h 19.9m

	3.0	3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
	3	2	3	1	2	2	1 0	4	1
			2	2	2	2	0 3	1	
				0	3	2	0 4	3	
				2	2	0	2 3	4	
					2	1	3 7		
					0	0	0 4		
					4	1	3 3		
					2	2	5 2		
					0	0	1 3		
					3	3	3 1		
					1	3	2 1		
					3	1	1 2		
					0	1	1		
8354 / 8355	4.54	2.1			0	1	3		
						1	2		
8356 / 8357	4.54	1.1				4	2		
						0	0		
8364	R.R					1	2		
8365	4.68 R.R					1	2		
9052?						0	2		
9086?						1	2		
9194	R. R					1	3		
9195	5.98 R.R					3	2		
9220	B R.R						2		
							3		
Σ+			2	0	3	6	56	9	1
Σ−	3	2	3	5	21	25	24	3	
Diff.	−3	−2	−1	−5	−18	−19	+32	+6	+1
No.	1	1	2	4	14	23	37	4	1
Mean.	−.30	−.20	−.05	−.12	−.13	−.08	+.09	+.15	+.10

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$+30^\circ\ 0' - +61^\circ\ 2'$

$21^h\ 20.0^m - 23^h\ 59.9^m$

4.0	4.5	5.0	5.5	6.0	6.5	7.0
0	5	3	6 1	2	3	5
1	4	3	2	1	1	
	2	2	2	2	3	
	5	2	2	4	3	
	1	2	0	4		
	1	0	6	0		
	1	0	1	2		
			3	1		
			0	3		
			2	3		
			0	0		
			1	0		
			0	1		
			0	2		
			2	2		
			1	3		
			5			
			2			
			3			
			3			
			3			
			1			
			0			
			1			
			1			

10236
10320

0	1	2	10	15	7	5
1	18	10	38	15	3	.
-1	-17	-8	-28	0	+4	+5
2	7	7	26	16	4	1
-.05	-.24	-.11	-.11	.00	+.10	+.50

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A stars. Grouping of H. P. Reid. +61° 3' to Pole.
0 h. to 8 h.

3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
4	3	2	0	0	2	7	2
		0	2	0	3	3	
		2	0	0	1	5	
		1	2	1	3	1	
		3	2	1	2	1	
			1	1	2	4	
				0	0		
				0	3		
				2	0		
				1	1		
251				2	4		
914				2	1		
1182				0	0		
1193				1			
1236				1			
1623				0			
4294				1			
				1			
				0			
				3			

Σ+	,	,	0	3	12	18	16	2
Σ−	4	3	8	4	5	4	5	.
Diff.	−4	−3	−8	−1	+7	+14	+11	+2
No.	1	1	5	6	20	13	6	1
Mean.	−.40	−.30	−.16	−.02	+.04	+.11	+.18	+.20

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+61° 3′ to Pole.

8 h to 16 h.

3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0
4	2	1	1	2	3	6	
			0	1	0	1	
			1	1	2	6	
				0	0	0	
				1	2	4	
				2	0	1	
				1	1	0	
				1	3		
					3		
					1		
					4		
					1		

4897
5915
5994
6254 } 4.98 R .
6255 } R . 0
7003 B R . R

1	1	1	1	1	18	14
4	2	.	1	8	2	4
−4	−2	+1	0	−7	+16	+10
1	1	1	3	8	12	7
−.40	−.20	+.10	.00	−.09	+.13	+.14

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+61° 3′ to Pole.

16h. to 0h.

3.5	4.0	4.5	5.0	5.5	6.0	6.5	7.0	7.5
3	0	7	0	1	2	5	6	7
4		2	5	1	1	1	(13)	3
		0	3	2	6	2		
		4	5	1	3	1		
		6	0	2	2	2		
			2	3	1	4		
			1	2	0	2		
				2	1			
				2	2			
				2	0			
				1	0			
				0	1			
				1				
				0				
				2				
				1				
				7				

9142
9376 B R.R
9379
9660
9767
10079

Σ+	.	0	0	0	10	10	17	19	10
Σ−	7	.	19	16	20	9	.	.	.
Diff.	−7	0	−19	−16	−10	+1	+17	+19	+10
No.	2	1	5	7	17	12	7	2	2
Mean.	−.35	.00	−.38	−.23	−.06	+.01	+.24	+.95	+.50

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1982ApJ...261..672F

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