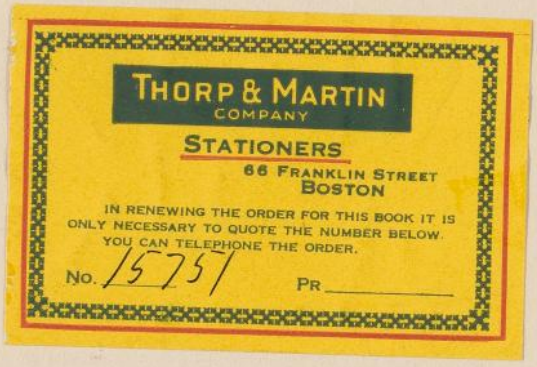
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6

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Multiplication by 12.

	.0	.1	.2	.3	.4	.5	.6	.7	.8	.9
0		1	2	4	5	6	7	8	10	11
1	12	13	14	16	17	18	19	20	22	23
2	24	25	26	28	29	30	31	32	34	35
3	36	37	38	40	41	42	43	44	46	47
4	48	49	50	52	53	54	55	56	58	59
5	60	61	62	64	65	66	67	68	70	71
6	72	73	74	76	77	78	79	80	82	83
7	84	85	86	88	89	90	91	92	94	95
8	96	97	98	100	101	102	103	104	106	107
9	108	109	110	112	113	114	115	116	118	119
10	120	121	122	124	125	126	127	128	130	131
11	132	133	134	136	137	138	139	140	142	143
12	144	145	146	148	149	150	151	152	154	155
13	156	157	158	160	161	162	163	164	166	167
14	168	169	170	172	173	174	175	176	178	179
15	180	181	182	184	185	186	187	188	190	191
16	192	193	194	196	197	198	199	200	202	203
17	204	205	206	208	209	210	211	212	214	215
18	216	217	218	220	221	222	223	224	226	227
19	228	229	230	232	233	234	235	236	238	239
20	240	241	242	244	245	246	247	248	250	251

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Book 6.

Measurements of Diameter, Concentration, Form and ~~(Position Angles.)~~

Diameters, Concentration & Form for nebulae marked on

A 6719, Sections D, B, C, and A. pgs 3, 11, 39, 47

I.C. & N.G.C. objects on A 6718 53

A 6718	Section A	pg 65
	Section B	76
	Section C	95
	Index Catalogue	105
	N. G. C.	115
A 6720	Section A	pg. 123 cont. on 157
	Section B	pg. 127 " " 158
	Section C	140
	Index Catalogue	147
	N.G.C.	159
A 13810	N.G.C.	pg. 167
	Section A	173
	Section B	183

A 13810 continued in Book 7, pg. 31

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(in concentration 2 new measurements for difference of 4 n+, 1 new for a difference of 3

in form new measures for 3 or over.

diameter remeasured for differences of .6 or more. if 3rd reading agreed or was only one different from one of the first two, a 4th reading was made. If this was in agreement with the two preceding similar ones, the one discordant reading was dropped and a mean taken of the three. If the 4th reading was different again or agreed with the discordant one of the 1st three, and if no misidentification or other such explanation was found, a mean of all 4 readings was taken.

1 scale reading = 12" of arc on A plates. Scale readings multiplied by 1/2 and decimal dropped.

Means for C+F:

for those differing by 1 steps in Concent. the estimates were chosen alternately right and left in the columns.

for those differing by 1 step in Form the estimates were chosen alternately odd and even.

* The letters representing degrees of concentration were later reversed. These are in the original order.

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		Diameter + Position: scale reading	2	mean	//		Concentration and Form. 1	2	mean	
D	1	3.2	(2.2)	3.1	37	+1	e 9	d 9	*e 9	✓
		3.1	3.3							
	2	2.7	2.9	2.8	34	+1	c 9	e 10 ✓	d 10	✓
	3	2.3	2.5	2.4	29	+1	(f) 10 d	f 9 ✓ e	e 9,10	✓
	4	4.3	3.5	3.9	47	-4	e 7	e 6 ✓	e 6	✓
		3.8								
	5	1.7	1.3	1.5	18	-2	c 9	e 8 ✓	d 9 8	✓
	6	3.8	3.2	3.7	44	-5	e 5	c 6i ✓	d 6i	✓
		4.2	3.6							
	7	1.6	1.9	1.8	22	1	f 10 d	c 9 ✓	d 10 9	✓
	8	4.0	3.4	3.5	42	-1	f 8	c 8	c 8	✓
		2.8	3.9							
	9	3.3	3.3	3.3	40	0	c 10	d 10	c 10	✓
	10	1.5	2.0	1.8	22	2	e 8	f 9 ✓	f 8	
	11	2.9	2.8	2.8	34	0	d 8	e 8	d 8	✓
	12	3.3	3.0	3.2	38	-2	d 9	d 9	d 9	✓✓
	13	2.9	2.6	2.8	34	-2	f 6	f 7 ✓	f 7 6	✓
	14	2.0	2.2	2.1	25	1	e 7i	e 8i ✓	e 8i	✓
	15	1.4	1.9	1.6	19	3	e 6	e 7 ✓	e 6 7	✓
					✓					

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D	16	2.5: 3.0:	3.8	3,1:	37	7	c 10:	c 10	c 10	✓✓
	17	2.2 1.8	1.3	1,8.	22	-5	f 8	f 9✓	f 8	✓
	18	2,6 2.5	(~~2.8~~) 2.3	2.5.	30	1	f 9	c 10✓	c 9 N	
	19	2.0	2.5	2.2.	26	3	d 8	d 9✓	d 8	✓
	20	2.1	2.4	2.2.	26	2	c 9	c 10✓	c 9 N	✓
	21	1.6 1.9	2.3	1.9.	23	-6	e 9	d 9	e 9	✓
	22	2.0	2.4	2.2.	26	2	f 8	c 8	c 8	✓
	23	1.8	1.9	1.8.	22	1	c 9	e 8✓	d 8	✓
	24	2.7	2.2	2.4.	29	-2	d 6i	d 7✓	d 7 k	✓
	25	2.2	1.8	2.0.	24	-2	c 6	c 6	c 6	✓✓
	26	1.9	1.9	1.9:	23	0	d 9:	e 9	d 9	✓
	27	2.1	2.2	2.2.	26	0	e 8	e 9:✓	e 8	✓
	28	2.3	2.3	2.3.	2f	0	d 7 9	d 10	d 9	✓
	29	1.9	2.6 2.3	2.3.	2f	3	f 4:	f: 6	f 5:	✓
	30	1,2	1.3	1.2.	14 ✓	1	f 9	f 9	f 9	✓✓

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6719

		Diameter 1	Diameter 2	Diameter —	Diameter II		Concentration and Form			
D	31	1.9	1.5	1.7	20	-2	d 7	d 7	d 7	vv
	32	2.2	1.9	2.0	24	-1	f 8 i	e 9	e 9 8	i
	33	2.0	2.3	2.2	26	1	c 9	c 9	c 9	vv
	34	1.9	2.2	2.0	24	2	f 7	f 6	f 6	v
	35	1.7	2.0	1.8	22	-2	e 10	e 8	e 9	vv
	36	2.5	2.9	2.9	32	2	c 6	f 6	c 6	v S:
	37	3.5 3.0	2.7 2.7	3.0	36	-3	f 4	f 4	f 4	vv
	38	2.3	1.8	2.0	24	-2	d 9	d 10	d 9 N	v
	39	1.1	1.0	1.0	12	0	e 8	e 10	e 9	vv
	40	1.2	1.3	1.2	14	1	d 8	d 8	d 8	vv
	41	1.9	1.9	1.9	23	0	c 10	d 10	d 10	v
	42	2.7 2.9	(~~1.1~~) 2.6	2.7	32	0	f 7	f 8	(stellar?) ~~f~~ 8	v
	43	2.0 1.6	1.4 1.9	1.7	20	-3	d 4i	d 6	d 5i	vv
	44	3.2	3.1	3.2	32	-1	f 5	a 5	f 5	v S:
	45	2.0	2.5	2.2	26	3	e 9	e 9	e 9	vv

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D	46	1.2	1.9	1.4.	17	3	✓c 8	d 8	d 8	✓		
	47	2.2	2.3	2.2.	26	1	d 7	d 9	d 8	✓✓		
	48	2.4	2.2	2.3.	2+	-1	e 10	e 10	e 10	✓✓		
	49	2.7 2.2	1.9	2.3.	2+	-4	d 9	f 8 ✓	e 9 8	✓		
	50	1.8	1.8	1.8.	22	0	✓e 7i	d 9i	e 8i	✓		
	51	2.4	2.6	2.5.	30	1	e 7	c 8 ✓	d 8	✓		
	52	1.7	1.7	1.7.	20	0	d 8	d 9 ✓	d 9 8	✓		
	53	3.5	3.5	3.5.	42	0	d 10	f 10	c 10	✓✓		
	54	1.4 2.1	2.4	2.0.	24	4	d 7	d 7	d 7	✓✓		
	55	2.0	2.1	2.0.	24	1	✓d 8	e 8	e 8	✓		
(irregular, perhaps group 3)	56	2.7 ~~1.4~~ ~~2.2~~ 3.0		2.7.	32	0	f 10i	f 9i ✓	f 10i	✓		
	57	2.2	2.3	2.2.	26	1	✓f 4	e 4	f 4	✓		
	58	~~(1.3)~~ 2.3	2.2 2.3	2.3.	2+	-1	✓e 7	d 8 ✓	d 7 8			
	59	2.4 2.0	1.4	1.9.	23	-5	e 9	e 10 ✓	e 10	✓		
	60	3.3	2.8	3.0.	36	-2	c- 6	c 8	c 7	✓		

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		Diameter & ~~Position~~ 1	2	—	"		Concentration and Form					
D	61	2.1 3.5:	3.0:	2.9:	35:	1	f	(3) 8	d	9: 7	e	8 vv
	62	3.0	2.6	2.8.	34	-2	d	8	c	9	d	9 8 v
	63	2.5:	2.0	2.2.	26	-2	e	9i	e	8	e	8 v
	64	2.8	2.7	2.8.	34	-1	d	9	e	9	e	9 v
	65	1.9	1.9	1.9.	23	0	c	9	c	10	c	9 10 v
	66	2.3 4.0:	3.7	3.3.	40	4	d	7	d	9	d	8 vv
	67	3.6	3.2	3.4.	41	-2	c	7	c	9	c	8 vv
	68	2.0 2.1	(2.8) 2.1	2.1.	25	-1	f	9i	e	8	f	8i v
	69	2.3	2.0	2.2.	26	-2	d	10	d	10	d	10 vv
	70	3.8	3.7	3.8.	46	-1	e	8 4	c	5 3	d	4 vv S:
	71	4.5	5.0:	4.8.	58	2	e	8	e	7:	e	7 8 v
	72	(2.9) 1.9	2.0 1.7	1.9.	23	1	f	6	f	8	f	7 vv
	73	1.1	1.4	1.2.	14	2	d	9	e	10	e	10 v
	74	1.2	1.7	1.4.	17	3	d	8	d	7	d	7 8 v
	75	1.5	1.8	1.6.	19 ✓	2	e	9	c	7	d	8 vv

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8

D	76	3.2	3.3	3.2. 3A	1	✓b 8	c 7✓	b 8		
	77	1.8	1.9	1.8. 22	1	b 9	b 9	b 9	✓✓	
(double)	78	2.3	2.3	2.3. 2A	0	double e 2, f 4	e 3, f 4	e 2✓, f 4	✓✓	
	79	2.0	2.2	2.1. 25	1	c 8	c 8	c 8	✓✓	
	80	1.7	1.6	1.6. 19	0	d 9	d 10✓	d 9 10	✓	
	81	3.0; 2.0	2.4	2.5. 30	-1	✓e 6	d 8	d 7	✓	
	82	1.0 1.4	2.2	1.5. 1A	7	✓f 5	e 7	f 6	✓	
	83	1.8	2.3	2.0. 24	3	c 8	c 8	c 8	✓✓	
	84	2.9	2.6	2.8. 34	-2	✓e 10	f 10	f 10	✓	
	85	~~(1.2)~~ 1.8	1.9 2.2	2.0, 24	-1	c 5	c 6✓	c 6	✓	
	86	2.2 2.5	3.0	2.6, 31	4	✓d 8	e 7✓	d 7 8		
	87	~~(2.3)~~ 3.1	3.2 3.0	3.1. 37	1	e 9	e 10✓	e 10	✓	
	88	1.6	1.8	1.7. 20	1	d 10	d 10	d 10	✓✓	
	89	2.0	2.1	2.1, 24	1	✓e 6 5	f 9 6	f 6		
	90	1.9	2.3	2.1. 25	2	c 9	c 9	c 9	✓✓	

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6719 Concentrations + Form. 9

		Diameter + ~~Position~~ 1	2	—	"	Concentrations 1	2	Mean	
D	91	2.4	2.7	2.6.	31 /	f 10	c 10	f 10	✓
	92	2.5	3.0	2.8.	34 2	e 10: star sf.	d 9✓	d9T2	
	93	2.8	2.8	2.8.	34 0	d 10.	e 8	d 9	✓
	94	2.4	2.3	2.4.	29 -1	e 9	e 9	e 9	✓✓
	95	1.9	2.1	2.0.	24 /	e 9:	d 9:	d 9	✓
	96	1.5	1.8	1.6.	19 2	e 9:	e 9:	e 9	✓✓
	97	2.4	2.7	2.6.	31 /	d 10.	d 9✓	d 10.	✓

✓

(Checked AA.)

0 16
+94 (48)
-74 (33)

2288 (97)

[Checked AA.]

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6719

		Diameter 1	Diameter 2	—	Estimate 2 minima mean	Concentration + Form		
B	1	~~1.2~~ 2.1	2.2 2.5	2.3	20 −1	d 9	e 10	d 10
	2	1.5	1.9	1.7	20 d	c 10	c 8	c 9
	3	1.9	2.3	2.1	25 d	d 5	d 5	d 5 Si
	4	1.7	1.8	1.8	22 0	c 7	d 9	d 8
	5	1.3	1.2	1.2	14 0	f 7	f 6	f 7
	6	1.4	1.4	1.4	17 0	d 9	e 9	d 9
	7	1.4	1.3	1.4	19 −1	b 10	c 9	c 10
	8	2.2	2.2	2.2	26 0	d 9	d 10	d 9
	9	1.0 1.1	1.0	1.0	12 0	c 6	d 6	c 6
	10	1.1	1.1	1.1	13 0	e 9	e 9	e 9 i
	11	1.3	1.2	1.2	14 0	c 8	c 7	c 8
	12	2.0 1.6	1.4	1.7	20 −3	c 8	c 9	c 9
	13	1.4	1.3	1.4	17 −1	e 9	e 8	e 8
	14	2.3	2.2	2.2	26 0	e 6	f 8	f 7
	15	1.9	1.8	1.8	22 0	c 8	b 9	c 9

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16	(+1) 1.9	2.0 1.8	1.9	23	+1	c 9 ✓	d8 ✓	d 8 ✓
17	2.2	2.3	2.2.	26	1	b 7	b 7	b 7 ✓
18	1.0	1.3	1.2.	14	1	d 7	d 7	d 7 ✓
19	1.5	1.9	1.7.	20	2	f 9 ✓	e 9	f 9 ✓
20	1.3	1.8	1.6.	19	2	b 7:	b 10	b 8 ✓
21	1.4 1.5	0.8 1.2	1.2.	14	-4	d 8	d 9 ✓	d 9 ✓
22	1.9 1.6	1.3	1.6.	19	-3	d 10	d 10	d 10 ✓ ✓
23	2.5 1.9	1.1 1.5	1.8.	22	-7	e 10	c 9 ✓	d 10 ✓
24	2.1	1.9	2.0.	24	-1	d 9	d 8 ✓	d 9 ✓
25	1.2	1.7	1.4.	17	3	c 8 ✓	d 9 ✓	d 8 ✓
26	1.3 1.9	2.3	1.8.	22	5	(a) 7 f	f 8 ✓ f	f 7
27	0.9	0.9	0.9.	11	0	f 10	d 10	e 10 ✓
28	1.7	1.8	1.8.	22	0	c 5	e 6 ✓	d 6 ✓
29	1.5	1.6	1.6.	19	0	✓ e 9	d 9	e 9 ✓
30	2.0	2.0	2.0.	24	0	d 9	d 9	d 8 ✓

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6719

		Diameter 1	2	—	"	Concentration +	Form	
B	31	1.8	1.4	1.6.	19 -2	f 10	ε 9 ✓	ε 9 ✓
	32	1.1	1.0	1.0.	12 0	f 10	ε 9 ✓	f 10 ✓
	33	1.2	1.1	1.2.	14 -1	d 7	d 6 ✓	d 7 ✓
	34	0.8	1.2	1.0.	12 2	ε 9	d 10 ✓	d 10 ✓
	35	1.4	1.9	1.6.	19 3	ε 4	f 4	ε 4 ✓
	36	1.0	1.4	1.2.	14 2	c 10	b 9 ✓	b 9 ✓
	37	0.9	0.8	0.8.	10 0	ε 8	ε 9 : ✓	ε 8 ✓
	38	2.2	2.0	2.1.	25 -1	d 5	d 6 ✓	d 5 ✓
	39	1.3	1.5	1.4.	17 1	d 8	d 8	d 8 ✓
	40	1.0 1.5	1.8	1.4.	19 4	f 8	ε 10	f 9 ✓
	41	0.9 1.2	2.1	1.4.	17 7	d 8 ✓	c 9 ✓	c 8 ✓
	42	1.4 1.9	2.2	1.8.	22 4	ε 10	c 10	d 10 ✓
	43	1.1 1.8	2.0	1.6.	19 4	c 7 ✓	d 7	c 7 ✓
	44	2.3 2.8	3.1	2.7	32 4	d 7	d 7	d 7 ✓
	45	1.0	1.2	1.1.	13 1 ✓	ε 9 ✓	d 8 ✓	d 9 ✓

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46	1.2	0.9	1.0	12 -1	bA	c9 ✓	b 8	✓
47	2.0:	2.0:	2.0:	24: 0	ε9	f9	f 9	✓
48	1.5	1.4	1.4	17 0	bA	c9 ✓	b9	✓
49	1.9	2.1	2.0	24 1	d5	d6 ✓	d6	✓
50	1.4	1.5	1.4	17 1	d9	d10 ✓	d9	✓
51	2.1 2.0	(1.1) 1.9	2.0.	24 1	d8	ε8	ε8	✓
52	2.3 2.2	(1.6) 2.0	2.2.	26 1	ε7	d9	ε8	✓
53	1.6	1.4	1.5.	18 -1	ε8	ε8	ε8	✓
54	1.4	1.7	1.6.	19 1	f10	ε10	ε10	✓
55	2.2	2.2	2.2.	26 0	f8	f9 ✓	f8	✓
56	0.9	1.0	1.0.	12 0	ε10 9	d7	ε9	✓
57	2.3	2.2	2.2.	26 0	c6	d6	d6	✓
58	2.1 1.9	(3.5) 2.0	2.0.	24 0	f6	ε7 ✓	f7	✓
59	1.0 1.0	(1.4) 1.2	1.1.	13 -1	ε7	c8 ✓	d8	✓
60	1.7	1.5	1.6.	19 -1 ✓	f8	f8	f8	✓

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6719

		Diameter 1	2	—	"	Concentration	Form	
B	61	1.6	1.3	1.4	17 -1	c10	c9 ✓	c9 ✓
	62	1.8 1.7	1.2 1.4	1.5	18 -3	f10	d10	ε10 ✓
	63	1.1	1.1	1.1	13 0	ε6	ε7 ✓	ε6 ✓
	64	1.5	1.7	1.6	19 1	✓d7	c9	cA ✓
	65	1.9	1.9	1.9	23 0	✓c7 7	d(10) 6	c7 ✓
	66	3.1	3.2	3.2	32 0	✓c7	d7	d7 ✓
	67	2.5	2.4	2.4	29 0	ε9	εA ✓	ε9 ✓
	68	2.2	1.8	2.0	24 -2	d9	f10: ✓	ε10 ✓
	69	1.8	2.1	2.0	24 1	✓f9	ε9	f9 ✓
	70	(3.8) 3.1:	3.5: 3.0	3.2:	32: 3	✓ε10: 8	f7	f8 ✓
	71	2.7 2.7	3.7 3.5	3.2	38 5	ε8i	ε8i	ε8i ✓
	72	2.1	2.2	2.2	26 0	✓f9	ε10 ✓	f9 ✓
	73	2.2	1.8	2.0	24 -2	d9	d10 ✓	d10 ✓
	74	1.2	1.5	1.2	14 1	f8	f9 ✓	f9 ✓
	75	4.3 4.6	5.0	4.6	55 4 ✓	✓d8	c7 ✓	c8 ✓

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76	1.8 2.5	3.2	2.5.	30	3	d9	d9	d9 ✓
77	3.1	2.8	3.0.	36	-2	E6:	E6	E6 ✓
78	2.2 2.3	(~~3.1~~) 2.6	2.4.	29	2	f9	f7	f8 ✓
79	2.1	2.1	2.0.	24	0	f9	f9	f9 ✓
80	2.5	3.0	2.8.	34	2	d9	d7	d8 ✓
81	2.6	2.2	2.4.	29	-2	✓f8	E9.	f9: ×
82	1.9	2.4	2.2.	26	2	✓f8	E8	E8 ✓
83						defect		
84	1.4	1.8	1.6.	19	2	C8	C:8	C8 ✓
85	1.6	2.1	1.8.	22	3	d7	d9	d8 ✓
86	2.0 1.6	1.3	1.6,	19	-3	E6	E8	E7 ✓
87	2.9 1.9	2.1	2.3.	28	-2	✓d10	E10	d10 ✓
88	1.9	2.3	2.1.	25	2	✓C6	d8	d7 ✓
89	1.5	2.0	1.8.	22	2	d8	d9.	d8 ✓
90	3.0	2.9	2.8.	34 ✓	-1	f8	d9.	E9 ✓

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6719

		Diameter 1	2	—	"		Concentration + Form		
B	91	1.3	1.9	1.5.	18	2	c 7	c 7 i	d 7 i ✓
	92	1.4	1.4	1.4.	17	0	b:10	d 8	c 9 ✓
	93	2.0	1.6	1.8.	22	-2	c 7	ε 6 ✓	d 6 ✓
	~~94~~	~~3.8:~~ 4.0:	~~4.0:~~ 3.0:	~~3.5:~~	~~42:~~	~~-5~~	f 10:	f 9	f 9 ~~defect~~
	95	1.7	1.4	1.6.	19	-2	✓d 4	c 6	d 5 ✓
	96	1.9	1.6	1.8.	22	-2	✓f 6	ε 8	ε 7 ✓
	97	1.6	1.5	1.6.	19	-1	✓ε 8	d 8	ε 8 ✓
	98	1.1	1.2	1.2.	14	0	f 10 d	c 8	d 9 ✓
	99	1.3	1.2	1.2.	14	0	✓f 10	ε 10	ε 10 ✓
	100	2.1 2.0	1.5 1.7	1.8.	22	-3	✓ε 9	d 10 ✓	ε 9 ✓
	101	2.5 2.8	3.3	2.9.	35	4	c 10	c 9 ✓	c 10 ✓
	102	3.2	3.1	3.2.	38	1	d 8	d 9 ✓	d 9 ✓
	103	1.4	1.1	1.2.	14	-1	b 5 5	b(a) 6	b 5 ✓
	104	2.6	2.7	2.6.	31	1	c 4	ε 4	d 4 S: ✓
	105	2.8: 2.4	1.8	2.3.	28 ✓	-5	✓ε 8	f 9 ✓	f 8 ✓

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106	2.3	1.9	2.1.	25	-2	✓C7	d7	C7	✓
107	1.9	(1.8)	1.9.	23	0	✓E7	d9	d8	✓
	1.9	1.9							
double? 108	1.8	2.0:	1.9.	23	1	✓E6 i	d7 i	E7 i	✓
109	2.0	2.0	2.0.	24	0	d10	d10	d10	✓
110	1.0	1.6	1.5.	18	1	d9	d8 ✓	d8	✓
	1.8								
111	1.9	2.1	2.0.	24	1	✓E7	E7	E7	✓
112	2.0	1.7	1.8.	22	1	✓d10	C9 ✓	C9	✓
113	1.3	1.3	1.3.	16	0	d8	d7 ✓	d8	✓
114	1.6	1.8	1.7.	20	1	f7	f8 ✓	f7	✓
115	1.5	2.0	1.8.	22	2	E9	E9	E9	✓
116	2.1	1.8	2.0.	24	-2	C9	C9	C9	✓
117	2.2	1.9	2.0.	24	-1	E8	E8	E8	✓
118	1.8	1.4	1.6.	19	-2	d8	d9 ✓	d8	✓
119	3.1	2.9	3.0.	36	-1	f4	f6	f5 i	✓
120	1.3	1.8	1.6.	19	2	E6	E7 ✓	E7	✓
				✓					

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1927phae.proj - 2316A

6719.

	Diameter 1	2	—	"	Concentration + Form 1	2	—	
B 121	3.1 3.5	2.0 3.0	2.9.	35 -9	✓ d9	c8.	d8	✓
122	1.9	1.8	1.8.	22 0	d7	d9	d8	✓
123	1.8 2.1	1.2	1.7.	20 -5	E9	E9	E9	✓
124	1.0	1.5	1.2.	14 3	✓E8	d8	d8	✓
125	1.7	1.2	1.4.	17 -2	✓E9:	f8 in.	E 9 i.	✓
126	2.1	1.9	2.0.	24 -1	d10	d9 ✓	d10	✓
127	1.5	1.9	1.7.	20 2	d8	d10	d9	✓
128	1.2	1.3	1.2.	14 1	E9	E9	E9	✓
129	2.3	2.3	2.3.	28 0	✓d5	E5	E5	✓
130	(2.7) 1.2	1.2 1.3	1.2.	14 0	c8	c7 ✓	c7	✓
131	1.7	2.1	1.9.	23 2	E6	E7 ✓	E6	✓
132	3.3	3.3	3.3.	40 0	d(5) 6	d6 5	d6	S:✓
133	2.5	2.1	2.3.	24 -2	✓f9	E9	f9	✓
134	1.4	1.9	1.6.	19 1	✓f9	E8.	E9.	✓
135	1.4	1.5	1.4.	17 1 ✓	✓E7	d8.	E8	✓

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(136						defect			)
137	(1.3) 2.3	2.4 2.0	2.2.	26	α	d 9	d 8 ✓	d 9	✓
138	1.7	1.5	1.6.	19	-1	✓ e 9	f 8 ✓	f 8	✓
139	1.2	1.1	1.2.	14	-1	c 6	c 7 ✓	c 7	✓
140	2.0	1.6	1.8.	22	-2	c 9	c 10 ✓	c 10	✓
141	1.2	1.7	1.4.	17	3	✓ c 8	b 9 ✓	c 9	✓
142	1.6	1.9	1.8.	22	-1	d 9	d 10 ✓	d 10	✓
143	(3.1) 2.2	2.2 2.3	2.2.	26	0	✓ f 10	e 9 ✓	e 9	✓
144	2.2	1.8	2.0.	24	-2	✓ d 6 i	e 5 in.	d 6 i	✓
145	1.8	1.7	1.8.	22	-1	✓ e 6	f 6	f 6	✓
146	1.4 2.8	2.8 2.1	2.3.	28	5	d 8	d 7 ✓	d 7	✓
147	1.8	1.9	1.8.	22	1	✓ d 8	e 8	d 8	✓
148	2.9	3.3	3.1.	37	2	✓ c 9	d 10.	d 10	✓
149	1.9 2.2	2.8	2.3.	28	5	e 10	e 10	e 10	✓
150	1.5	1.5	1.5.	18	0 ✓	c 8	c 6	c 7	✓

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B 151	2.2	2.2	2.2.	26	0	dA	d7.	d7	✓
152	1.9	1.5	1.7.	20	-2	✓d9	ε A ✓	d8	✓
153	1.3	1.3	1.3.	16	0	✓f8	ε9 ✓	ε9	✓
154	~~(1.0)~~ 1.8	1.6 1.6	1.7.	20	-1	✓ε8	f9 ✓	ε8	✓
155	2.1	2.1	2.1.	25	0	✓ε10	d10	d10	✓
156	1.9	1.7	1.9.	20	0	d10	d9i ✓	d9i	✓
157	1.6	1.8	1.9.	20	1	ε9	ε9	ε9	✓
158	2.7	2.4	2.6.	31	-2	f6	f7 ✓	f6	✓
159	1.6	1.6	1.6	19	0	✓d9	c9	d9	✓
160	1.4	1.5	1.4.	17	1	ε8	ε9 ✓	ε9	✓
161	1.8	1.9	1.8.	22	1	✓ε9	f10 ✓	f10	✓
162	2.0	2.0	2.0.	24	0	d7	d8 ✓	d7	✓
163	1.2	1.3	1.2.	14	1	c10	c10	c10	✓
164	2.3 1.7	1.8 2.0	2.0.	24	-2	ε8	ε8	ε8	✓
165	1.3	1.1	1.2.	14	-1 ✓	f9	f10 ✓	f10	✓

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	166	1.6	1.7	1.6.	19	1	✓ ε9	d10, ε9	✓
	167	2.4	2.1	2.2.	26	1	✓ d5 i	ε6 i, ε6 i	✓
star superposed south	16F	1.6 ~~2.2~~ 2.2	~~2.2~~ 1.5	1.6.	19	0	✓ ε(4) 7	f7: 7 ε7	✓
	169	1.8	1.4	1.6.	19	-2	✓ ε9	d8, d9	✓
	170	2.3	2.1	2.2.	26	-1	d10	d9, d10	✓
	171	2.2	2.0	2.1.	25	-1	f9	d8 ✓ ε9	✓
Identification difficult in this region owing to crowding.	172	~~2.3~~ 2.0	1.1 1.3	1.2.	14	-1	c7	c7	c7 ✓
	173	(~~2.8~~) 1.3	1.5 1.3	1.4.	17	1	✓ ε6	f7 ✓ ε6	✓
	174	1.5	1.4	1.4.	17	0	✓ ε6	d8	d7 ✓
	175	1.2 1.9	2.2 1.5	1.7.	20	5	c8	c8	c8 ✓
	176	1.8	1.7	1.8.	22	-1	d7	f6 ✓ ε7	✓
	177	1.9 2.1	2.5	2.2.	26	3	d8	d9 ✓ d8	✓
	178	2.0	2.3	2.2.	26	1	✓ b8	c8	b8 ✓
	179	2.2	1.8	2.0.	24	-2	✓ d10	ε8	ε9 1
	180	1.5	1.6	1.6.	19 ✓	0	f5	f5	f5 ✓

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1927phae.proj - 2316A

		Diameter 1	2	Mean	6719 "		Concentration + Form			
B	1F1	1.0	1.7	1.4.	17	3	c7	c9	cA	✓
		1.6	1.3							
	1F2	2.2	1.9	2.0.	24	-1	✓ cA	dA	cA	✓
	1F3	1.1	1.4	1.2.	14	2	✓ d9	E9	E9	✓
	1F4	1.6	1.6	1.6.	19	0	✓ c10	b10	c10	✓
	1F5	1.9	1.9	1.9.	23	0	E10	E10	E10	✓
	1F6	2.2	2.0	2.1.	25	-1	d9	d9	d9	✓
	double 1F7	1.2	1.3	1.2.	14	1	✓ b9i	cAi	c9i	✓
	1F8	0.9	0.9	0.9.	11	0	d9	d9	d9	✓
	1F9	1.4	1.4	1.4.	17	0	✓ d10	c10	d10	✓
	1F0	1.3	1.8	1.6.	19	2	E7	E9	EA	✓
	1G1	1.2	1.8	1.8.	22	0	✓ d7	c9	c7	✓
		2.5	1.7							
	1G2	2.4	1.5	1.9.	23	-4	✓ E9	fA ✓	cA	✓
		1.8								
	1G3	1.7	1.4	1.6.	19	-2	f8	f8	f8	✓
	1G4	1.4	1.7	1.6.	19	1	✓ f10	E9.	E9	✓
	1G5	1.0	1.4	1.2.	14	2	f9	f9	f9	✓
					v					

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1927phae..pOj..2316A

196	2.2 1.4	1.3 1.8	1.7.	20	-4	d5 5	d7 6	d5	✓
197	1.8	1.6	1.7.	20	-1	✓E9	d9	E9	✓
198	3.3	3.7	3.5.	42	2	C6	C6	C6	S.✓
199	2.7	3.2	3.0.	36	2	✓b7	C8 ✓	C8	✓
200	2.0 1.9	(1.4) 2.3	1.9.	23	-5	✓c8	b10:	C9	✓
201	1.8	1.6	1.7.	20	-1	✓d10	E9 ✓	E9	✓
202	2.3	2.3	2.3.	28	0	C8	C7 ✓	C8	✓
203	1.4	1.9	1.6.	19	3	✓b7	C8 ✓	b7	✓
204	2.0	1.6	1.8.	22	-2	✓C9	d10 ✓	d10	✓
205	1.9 2.3	2.7	2.3.	28	4	d8	d9 ✓	d9	✓
206	1.5 2.7	2.1 2.3	2.2.	26	-1	d10	d9 ✓	d10	✓
207	1.6	1.3	1.4.	17	-1	E7i	E7i	E7i	✓
208	1.8 1.8	(1.1) 1.9	1.8.	22	0	✓E6	d7.	C7	✓
209	2.0:	2.2	2.1.	25	1	f9:	f8 ✓	f8	✓
210	1.3	1.2	1.2.	14	0	✓d8	E9 ✓	E9	✓

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1927phae.proj - 2316A

B	211	1.7	1.4	1.6.	19 -2		E9	E9	E9	✓
	212	2.1	1.9	2.0.	24 -1		E5	E5	E5	✓
	213	2.2	1.7	2.0.	24 -3		d8	f8	E8	✓
	214	1.9	1.5	1.7.	20 -2		✓d9	E9	d9	✓
	215	1.7	1.4	1.6.	19 -2		✓E6	d7,	d6	✓
	216	2.1	2.0	2.0.	24 0		✓C10	d8	c9	✓
	217	1.5	1.7	1.6.	19 1		E10:	E9i.	E9i	✓
	218	1.3	1.2	1.2.	14 0		C7	C9	C8	✓
	219	2.2	1.6	2.1.	25 -5		f9.	f9	f9	✓
	220	2.6 3.0: 2.8	2.2	2.7.	32 -5		✓b7	c8 ✓	C8	✓
	221	2.8	2.3	2.6.	31 -3		✓E10	f10	E10	✓
	222	2.2	1.9	2.0.	24 -1		C8	C7,	C9	✓
	223	1.4	1.8	1.6.	19 2		✓E6i	d7i.	d6i	✓
	224	1.9	2.0	2.0.	24 0		✓d9	c8 ✓	d9	✓
	225	1.2	1.6	1.4.	19 2 ✓		d9	d9	d9	✓

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226	2.2	1.7	2.0.	24 -3	d7	d8 ↓	d8	✓
227	1.8	2.1	2.0.	24 1	✓ E8	d9 ✓	d9	✓
228					missing			
229	2.3 2.4	(1.2) 2.7	2.5.	30 -2	✓ c5i 6	d8i	c6i	✓
230	2.8	2.9	2.8.	34 1	d5	d6i ↓	d6i	✓
231	1.3	1.3	1.3.	16 0	E10	E10	E10	✓
232	1.2	1.0	1.1.	13 -1	E8	E8	E8	✓
233	1.8 2.2	1.2	1.7.	20 -5	✓ f9	E9	E9	✓
234	1.9	1.9	1.9.	23 0	c9	c9	c9	✓
235	1.6	1.4	1.5.	18 1	d8	d8	d8	✓
236	(2.5) 1.7	1.8 1.9	1.8.	22 0	E8	E8	E8	✓
237	1.4	1.1	1.2.	14 -1	f9	f9	f9	✓
238	1.6	1.3	1.4.	17 -1	f8	f9 ✓	f9	✓
239	2.1	2.2	2.2.	26 0	d7 8	810	c8	✓
240	1.2	1.0	1.1.	13 -1 ✓	d9	d9	d9	✓

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1927phae.proj - 2516A

B	241	1.3	1.2	1.2.	14	0	✓ε7	dA.	ε8	✓
	242	2.2	1.9	2.0.	24	-1	f7	f7	f7	✓
	243	2.4 1.5	1.2	1.7 .	20	-5	✓d9	εA ✓	ε9	✓
	244	1.3 1.7	2.1	1.7 .	20	5 .	b8:	dA	cA	✓
	245	2.0	1.9	2.0.	24	-1	ε(~~3~~) 6	ε6 5	ε6	✓
	246	1.9	1.7	1.8.	22	-1	εA	ε10	ε9	✓
	247	2.7	2.5	2.6.	31	-1	d7i	d9	dA4	S: ✓
	24F	1.8	2.0	1.9.	23	1	✓f2	ε3 ✓	f2	✓
	249	2.0 2.0	(~~1.0~~) 2.3	2.1.	25	-1	✓ε7	fA ✓	f7	✓
	250	1.4	1.9	1.6.	19	3	εAi	ε7 ✓	εAi	✓
	251	1.1 2.1	1.8	1.7.	20	1	ε9	ε9	ε9	✓
	252	3.3	3.0	3.2.	34	-2	f10	f9 ✓	f9	✓
	253 (faint extensions)	2.6 ~~1.7~~	~~1.6~~ 3.0	2.8.	34	-2	f10	f10	f10	✓
	254	1.9	2.1	2.0.	24	0	✓d7i	εAi ✓	d8i	✓
	255	2.7	2.2	2.4.	29 ✓	-2	d7	d9	dA	✓

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1927phae.proj.2316A

256	1.1	1.4	1.2.	14	2	cf	e7 ✓	d7 ✓
257	2.5	2.6	2.6.	31	0	c7	cf ✓	c8 ✓
258	1.9	1.9	1.9.	23	0	df	d9 ✓	d9 ✓
259	1.3	1.3	1.3.	16	0	✓c9	df ✓	d8 ✓
260	2.6	3.0	2.8.	34	2	b7	d6 ✓	c7 ✓
261	2.4 2.0	1.3	1.9.	23	-6	cf	c7 ✓	cf ✓
262	1.8 1.9	~~1.2~~ 1.8	1.8.	22	0	✓c7	b7	c7 ✓
263	1.9	2.1	2.0.	24	1	d10	df	d9 ✓
264	1.7 1.8	1.1 1.3	1.5.	18	-4	✓c9	d9	d9 ✓
265	2.3	1.8	2.0.	24	-2	c7	e9	df ✓
266	2.0	1.7	1.8.	22	-1	✓df	ef	df ✓
267	2.4 1.1	1.4 1.7	1.6.	19	-2	df	df	df ✓
268	1.8	2.1	2.0.	24	1	f8	f9 ✓	f9 ✓
269	1.9 1.4	1.3 1.5	1.5.	18	-2	✓e10	f10	f10 ✓
270	1.5	1.8	1.6.	19	2	f8	ff	ff ✓
					✓			

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1927phae.proj.2516A

B	271	1.9	1.9	1.9.	23	0	✓ f9	E A ✓	f8	✓
	272	2.0	2.0	2.0.	24	0	✓ E7	d A ✓	d7	✓
	273	1.3	1.5	1.4.	17	1	d6	d7 ✓	d6	✓
	274	2.1	1.9	2.0.	24	-1	f10	f9 ✓	f9	✓
	275	2.4	2.2	2.3.	2A	-1	d6	d7 ✓	d6	✓
	276	2.0	2.3	2.2.	26	+1	E10	E10	E10	✓
	277	1.5	1.7	1.6.	19	1	f10	f10	f10	✓
	27A	2.9	2.9	2.9.	35	0	C9	C9	C9	✓
	279	~~(2.1)~~ 1.5	1.5 1.5	1.5.	18	0	✓ dA	EA	dA	✓
	2A0	1.9	2.3	2.1.	25	2	d10	d10	d10	✓
	2A1	1.7	1.7	1.7.	20	0	✓ d9	E9	E9	✓
	2A2	1.A	1.A	1.A.	22	0	✓ fA	EA	fA	✓
	2A3	1.6	1.7	1.6.	19	1	✓ E9	d9	d9	✓
	2A4	2.2	1.9	2.0.	24	-1	✓ E10	f10	E10	
	2A5	2.1	2.1	2.1.	25 ✓	0	✓ f9	E9	E9	✓

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288	2.0:	2.0:	2.0.	24	0	cA	cA:	cA ✓
289	2.1	2.1	2.1.	25	0	d9	dA ✓	d9 ✓
28A	3.3	3.3	3.3.	40	0	✓f10	e10	f10 ✓
28B	2.3	2.1	2.2.	26	-1	d9	d9	d9 ✓
28C	1.9 2.3	2.A	2.3.	28	0	c10	c10	c10 ✓
291	1.8	1.9	1.A.	22	1	e6	e7 ✓	e6 ✓
292	3.0	2.5	2.A.	34	-3	f10	f9 ✓	f9 ✓
293	1.9	2.2	2.0.	24	2	cA	cA	cA ✓
294	2.0	1.9	2.0.	24	-1	✓e8	d9 ✓	dA ✓
295	2.9 2.3	2.1	2.4.	29	-3	f10	f10	f10 ✓
296	1.8	1.7	1.8.	22	-1	✓e9i	f9	e9i ✓
Huntley (297	2.1 2.1	1.5 1.7	1.6	19	-1	✓d6	e6	e6 ✓
29A ✓	2.1 1.9	1.3	1.8.	22	-5	✓dA	e7 ✓	d8 ✓
299	2.4	2.3	2.4.	29	-1	✓c9	d9	d9 ✓
300 ✓	1.7	1.8	1.8.	22	0	c8	c9 ✓	c8 ✓

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6719

B.	301 ✓	2.3 1.7	1.5	1.8.	22	-3		f9	f8 ✓ f9 ✓
	302 ✓	1.4	1.1	1.2.	14 ✓	-1		d8	d9 ✓ d8 ✓
	303								
	304	(Checked AA.)							(Checked AA.)
	305								
	306								
	307								
	308								
	309								
	310								
	311								
	312								
	313								
	314								
	315								

(80)
+201 (103)
-231 (113)

5520 298

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C		Diameter 1	2	mean	"				
	1	2.3	2.4	2.4.	29	0	d10	d10	d10 vv
	2	2.2	2.2	2.2.	24	0	v Ef	dF	EF v
	3	2.4	2.0	2.2.	26	-2	v C10	d9 v	d10
	4	2.4	2.6	2.5.	30	1.	d9	d9	d9 vv
	5	2.6	2.5	2.6.	31	-1	E5	E6 v	E5 v
	6	2.1	1.8	2.0.	24	-2	c9	C10 v	C10 v
	7	2.7	2.6	2.6.	31	0	v E10	f9 v	E9
	8	1.9	1.9	1.9.	23	0	v C8	d9 v	d8
	9	1.8	1.6	1.7.	20	-1	E7	E8 v	E7 v
	10	2.2 1.8	1.3	1.8.	22	-5	v f8	E9 v	f8
	11	2.0	2.1	2.0.	24	1	v d10	E9i v	E9i
	12	1.3	1.2	1.2.	14	0	v C6	d8	C7 v
	13	2.9	2.5	2.7.	32	-2	b9	b9	b9 Si vv
(two)	14	1.3 1.5	1.9	1.6.	19	3	f8	d10	E9 vv
	15	1.4 1.3	2.0 1.8	1.6.	19 v	4	d10	d9 v	d10 v

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16	0.9	1.3	1.1.	13	2	E 7	E 8 ✓	E 7 ✓
17	2.2	2.0 :	2.1.	25	-1	d 9	d 9	d 9 ✓✓
18	1.7	1.4	1.6.	19	-2	✓ C 6	d 7 ✓	d 6
19	1.3	1.3	1.3.	16	0	E 6	E 6	E 6 ✓✓
20	1.8	1.3	1.6.	19	-3	✓ d 9	C 10 ✓	d 9
21	2.5	2.2	2.4.	29	-2	✓ E 10	f 10	f 10 ✓
22	1.4	1.2	1.3.	16	-1	d 7	d 8 ✓	d 8 ✓
23	2.7	3.1	2.9.	35	2	d 8	d 9 ✓	d 9 ✓
24	1.6	2.1	1.8.	22	3	C 10	E 10	d 10 ✓
25	1.5 :	1.5	1.5.	18	0	f 8 :	f 9 : ✓	f : 8 ✓
26	1.2	1.0	1.1.	13	-1	E 7	E 7	E 7 ✓✓
27	1.3	0.9	1.1.	13	-2	✓ E 10	d 10	E 10 ✓
28	1.6	1.1	1.4.	17	-3	d 8	d 9 ✓	d 9 ✓
29	1.9	1.8	1.8.	22	0	✓ d 9 :	E 10 ✓	E 10 :
~~(duplicate)~~ 30	2.0 ~~2.0~~	~~2.0~~ 1.9	2.0.	24 ✓	0	✓ C 8	d 7 ✓	C 9

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U	31	1.9	1.9.	1.9	23	0	d6	d7 ✓	d6	.
	32	2.2	2.2.	2.2	26	0	✓ E9	d10 ✓	d 9	
	33	~~(2.5)~~ 2.6	2.6 2.8	2.7.	32	-1	E10	E8	E9	✓ ✓
	34	4.2 2.3	3.2 3.2	3.2:	38:	0	E(~~10~~) 6	E7 7 ✓	E7	✓ ✓
	35	2.8	2.4	2.6.	31	-2	✓ d5 7	c9 8	d7	✓
	36	3.1	2.8	2.9.	35	-1	✓ d10	c10:	c 10	✓
	37	3.9 3.3	~~(4.9)~~ 3.6	3.4.	41	-1	✓ c4	d5 ✓	c 4	S:
	38	1.4	1.3	1.4.	17	-1	✓ f7	E8 ✓	E7	
	39	1.9	1.9	1.9.	23	0	d7	d6 ✓	d6	✓
	40	1.2	1.4	1.3.	16	1	✓ f9	E10 ✓	f9	
	41	2.1	1.9	1.9.	23	-2	b10: c	~~f~~ 10 f:	b 10:	.
	42	2.3	2.2	2.2.	26	0	f8	f8	f8	✓ ✓
	43	1.0	1.4	1.2.	14	2	d9	d9	d9	✓ ✓
	44	1.4	1.3	1.4.	17	-1	✓ f6	E8	E7	✓
	45	1.4	1.5	1.4.	17 ✓	1	d9	d10 ✓	d10	✓

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46	2.2	1.9	2.0.	24	-1	✓C10	d10	c10	✓
47	1.3	1.3	1.3.	16	0	d7	d7	d7	✓✓
48	1.2	1.0	1.1.	13	-1	✓b8	c8	c8	✓
49	1.8	2.2	2.0.	24	2	ε10	ε9✓	ε9	✓
50	3.7 4.9	3.0: 3.5	3.8.	46	-2	d8	f7✓	ε8	✓
51	2.8 1.7	2.0	2.2.	26	-2	✓f7	ε8✓	f7	
52	1.3	1.8	1.6.	19	2	ε8i	ε8	ε8i	✓✓
53	2.0	1.9.	2.0.	24	-1	d10	d9✓	d10	✓
54	2.4 2.0	1.7	2.0.	24	-3	✓d8	c10	c9	✓
55	1.2	1.4	1.3.	16	1	f6	b8	f7	✓✓
56	1.1	1.2	1.2.	14	0	✓ε7	f7	ε7	✓
57	2.2	2.1	2.2.	26	-1	✓d10i	ε9✓	ε9i	
58	2.0	1.9	2.0.	24	-1	✓c6	d8	c7	✓
59	4.5 4.0:	3.5	4.0.	48	-5	f4	f6	f5	✓✓
60	1.2	1.3	1.2.	14 ✓	1	ε10	ε9✓	ε10	✓

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C	61	3.5	3.4	3.4.	41	0	dqi	d8 ✓	dqi ✓
	62	2.0	2.1	2.1.	24	1	c5	c7	c6 ✓✓
	63	2.2	1.7	2.0.	24	-3	d8	dq ✓	d8 ✓
	64	2.1	1.6	1.8.	22	-2	dq	dq	dq ✓✓
	65	1.9	1.4	1.6.	19	-2	b10	b10	b10 ✓✓
	66	2.6	~~(1.1)~~	2.7.	32	-1	✓dq	ε10 ✓	ε9
		2.8	2.7						
	67	2.2	~~(1.3)~~	2.1.	25	1	f7	f8 ✓	f8 ✓
		2.1	2.1						
	68	3.5	3.2	3.4.	41	-2	✓ε8	f10	ε9 ✓
	69	1.8	1.8	1.8.	22	0	f7	f7	f7 ✓✓
	70	1.0	1.1	1.0.	12	1	✓f6	ε8	ε7 ✓
	71	1.3	1.6	1.4.	17	2	d7	d7	d7 ✓✓
	72	2.1	1.8	2.0.	24	-2	✓b8	c8	b8 ✓
	73	1.4	2.0	1.9.	23	+1	✓dq	εq	ε9 ✓
		2.3							
	74	1.5	1.4	1.4.	17	0	dq	d8 ✓	d9 ✓
	75	1.2	1.3	1.2.	14	1	✓ε8	f8	ε8 ✓
					✓				

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76	0.9	1.1	1.0.	12	1	✓ EA	f9 ✓	f8	
77	1.0	1.2	1.1.	13	1	f10:	d9 ✓	E9	✓
78	1.2 1.9	2.1	1.7.	20	4	d9	d9	d9	✓✓
79	1.1	1.5	1.3.	16	2	C9	C10 ✓	C10	✓
80	1.9	2.0	2.0.	24	0	EF	E8	E8	✓✓
81	1.0	1.0	1.0.	12	0	f10	d9 ✓	E9	✓
82	2.0	1.8	1.9.	23	-1	✓ C(7) 4	d6 4	C5	✓1
83	2.8 2.0:	1.9 2.5:	2.3.	28	-4	EA	E10	E9	✓✓
84	1.6	1.6	1.6.	19	0	EA	EA	EA	✓✓
85	1.8	1.9	1.8.	22	1	d9	d10 ✓	d10	✓
86	1.3 1.8	2.2	1.8.	22	4	d7	d7	d7	✓✓
87	1.3	1.4	1.4.	17	0	E10	E9 ✓	E9	✓
88	1.5	1.3	1.4.	17	-1	C8	C9 ✓	C8	✓
89	1.1	1.0	1.0.	12	0	✓ C9	d9	d9	✓
90	1.7	2.0	1.8.	22	2 ✓	E9	E10 ✓	E9	✓

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1927phae.proj : 2316A

C	91	2.0	1.9	2.0.	24	-1	✓ f6	E6	f 6	✓
	92	1.0	1.2	1.1.	13	1	✓ E10	d9 ✓	d 10	
	93	1.2	1.4	1.3.	16	1	C9	C8 ✓	C 9	✓
	94	2.0 1.4	1.2	1.5.	18	-3	E10	E10	E10	✓✓
	95	1.9	1.6	1.6.	19	0	C10	C9 ✓	C 10	✓
	96	1.6	1.8	1.7.	20	1	✓ E8	f6	E 7	✓
	97	2.1	2.2.	2.2.	26	0	✓ C8	d6	d 7	✓
	98	1.5 2.1	2.1 1.9	1.9.	23	2	✓ d9	E7	d 8	✓
	99	2.0 :	2.0	2.0.	24	0	✓ E8	f8	f 8	✓
	100	2.1 1.5	1.3	1.6.	19	-3	✓ E6	d6	E 6	✓
star?	101	defect					b9			
	102	2.2	1.7	2.0.	24	-3	d5i	d8 7	d 7 i	✓✓
	103	3.3 2.2	2.4 3.4	2.8.	34	-4	d6 d	d7 ✓	d 7	✓
	104	1.2	1.5	1.4.	17	1	d10	d10	d10	✓✓
	105	1.9	1.6	1.8.	22	-2	C8	C8	C8	✓✓
					✓					

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106	1.8	1.4	1.6	19 -2	E9	E9	E9	vv
107	1.6	1.8	1.7	20 1	E6	E6	E6	vv
108	1.3	1.6	1.4	17 2	✓C10	d8	d9	✓
109	2.0	1.7	1.9	23 -2	d10	f9✓	E10	✓
110	2.6	2.8	2.7	32 1	d5	d4✓	d5	S:✓
111	1.8	2.1	2.0	24 1	✓E8	f7✓	E8	
112	2.4	2.3	2.4	29 -1	f8	f9✓	f9	✓
113	1.7	1.9	1.8	22 1	b7i	b6✓	b6	S:✓
114	1.8	1.4	1.6	19 -2	✓d8	E9✓	E9	
115	2.2	2.1	2.2	26 -1	✓d7	E9	d8	✓
116	1.3	1.3	1.3:	16 0	✓E9	f10✓	f10	
117	1.1	1.0	1.0	12 0	✓b9	c8i✓	b9i	
118	1.9	1.5:	1.7	20 -2	✓E10	d10	d10	✓
119	2.3	2.1	2.2	26 1	E4	E6	E5	vv
120	~~(1.1)~~ 1.8	1.8 1.9	1.8	22 0 ✓	f10	d8	E9	vv

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C	121	1.8	2.0	1.9	23	1	cp	c9v	c8	v
	122	1.7 2.3	1.1 1.6	1.7	20	-6	c8	c10	c9	vv
	123	1.7	2.0:	1.8	22	2	vd10	e9v	d9	
	124	2.2	2.7	2.4	29	3	vd9	c7	c8	v
	125	1.2	1.6	1.4	17	2	vc7i	d8iv	c8i	
	126	3.2	2.7	3.0	36	-3	ve8	d9iv	d9i	
	127	1.9	2.1	2.0	24	1	ve9	f9	e9	v
	128	1.4	1.2	1.3	16	-1	c10	c10	c10	vv
	129	1.3	1.0	1.2	14	-2	b9	d10v	c10	v
	130	2.2	2.0	2.1	25	-1	vd10	e9v	e9	
	131	1.9	2.2	2.0	24	-2	d8i	d8	d8i	vv
	132	1.6	2.1	1.8	22	3	d8	d7v	d8	v
	133	2.6 2.5	(~~1.9~~) 2.4	2.5	30	1	c6	e5v	d5	v Si
	134	2.3	1.8	2.0	24	-2	ve9	f8v	e8	
	135	1.5	1.0	1.2	14	-2	d10	d9v	d9	v
					v					

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136	1.7	2.0	1.8	22	2	✓d6	C6	c6	✓
137	2.0	2.2	2.1	25	1	✓dA	εδ	dδ	✓
138	~~(1.0~~ 2.0	1.9 1.9	1.9	23	0	✓c10	d10	d10	✓
139	1.5 3.1	2.3 2.2	2.3	2A	0	ε10	ε10	ε10	✓✓
140	1.8	1.7	1.8	22	-1	✓f7	εF✓	f8	
141	1.8	2.0	1.9	23	1	✓ε7	d7	d7	✓
142	2.3	2.6	2.4	29	2	f5	f6✓	f5	✓
143	1.6	1.6	1.6	19	0	✓dA	ε6	d7	✓
144	3.5 2.2	2.2 3.0	2.7	32	-5	d7	d7	d7	✓✓
145	2.2	1.8	2.0	24	-2	c6	c5✓	c6	Si
146	2.6	2.2	2.4	29	-2	c9	cA✓	c9	✓
147	1.2	1.3	1.2	14	1	✓ε4	d6	d5	✓
14A	1.0 1.0	~~(2.4)~~ 1.1	1.0	12	0	✓c9	d9	c9	✓
149	1.6 1.6	2.3 2.5	2.0	24	+3	d7	d7	d7	✓✓
150	1.5	1.5	1.5	1A	0	ε10	εA	ε9	✓✓
				V					

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1927phae.proj - 2516A

C	151	2.3	2.0	2.2	26	-2	cA	c9 v	cA	✓
	152	1.9	1.4	1.6	19	-2	d10	d10	d10	✓✓
	153	2.5 1.9	1.9 2.1	2.1	25	-2	f9:	f9	f9	✓✓
	154	2.2 2.7	1.1 2.0:	2.0	24	-9.	f9	ε9	ε9	✓
	155	2.4	2.0	2.2	26	-2	✓ dA f	f8 f	f8	✓
	156	1.9	1.6	1.A	22	-2	εC	c7 v	d7	✓
	157	1.5	1.2	1.4	17	-2	✓cA	d8	c8	✓
	158	1.3	1.4	1.4	17	0	f9	f9	f9	✓✓
	159	2.3 2.3	(~~1.5~~) 2.6	2.4	29	-1	d10	d10	d10	✓✓
	160	2.0 1.A	1.3	1.7	20	-0	εA	εA	εA	✓✓
	161	1.9 1.3	3.0 2.9	2.3	28	7	✓d8	εA	εA	✓
	162	2.3	1.A	2.0	24	-2	f7	f7	f7	✓✓
	163	2.1	1.7	1.9	23	-2	✓c7	b7	c7	✓
	164	1.A	1.A	1.8	22	0	ε9	ε9	ε9	✓✓
	165	5.2	4.8	5.0	60 V	-2	✓ε6	f6	f6	✓

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C 166	1.7	1.7	1.7	20	0	dP	d9 ✓	d8 ✓	
167	1.3	1.4	1.4	17	0	E9	E10 ✓	E9 ✓	
16F	2.0	2.1	2.0	24	1	✓d9	C9	d.P ✓	
169	1.2	1.2	1.2	14	0	E10	E10	E10 ✓✓	
170	1.9	1.P	1.P	22	0	✓EP	f7 ✓	f F	
171	~~(3.3)~~ 2.1	2.2 2.2	2.2	26	0	✓C7	d7 ✓	C9	
172	3.9	3.5	3.7	44	-2	✓E7	f6 ✓	f C	
173	1.2	1.2	1.2	14	0	✓f9	E9	f9 ✓	
174	1.0	1.0	1.0	12	0	d10	d10	d10 ✓✓	
175	2.7	2.2	2.4	29	-2	d9	d10 ✓	d9 ✓	
176	2.9 2.4	1.9	2.4	29	-5	E7	E6 ✓	E6 ✓	
177	~~(2.3)~~ 1.2	1.4 1.3	1.3	16	1	b9	b9	b9 ✓✓	
178	1.P 2.0	1.2	1.7	20	-5	d10	dP	d9 ✓✓	
179	1.3	1.1	1.2	14	-1	✓C5 7	dP 9	d7	✓
180	2.6	2.9	2.8	34 -V	1	✓e9	d8 ✓	e9	✓

Checked AA. (checked AA.)

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0 44
+94 (55)
-173 (80)

3423 180

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1927phae.proj - 2516A

6719

A	Diameter 1 Scale Readings	2	Mean	"		Concentration	+ Form.	
1	2.0	2.1	2.0	24	1	✓ εA	d9 ✓	εA
2	1.7	1.3	1.5	18	-2	✓ d9	εA ✓	ε9
3	1.6	1.7	1.6	19	1	✓ d9	ε9	d9 ✓
4	2.1	2.0	2.0	24	0	f8	f10	f9 ✓✓
5	1.7	1.5	1.6	19	-1	✓ f9	ε9	εA ✓
6	2.2	1.9	2.0	24	-1	✓ εA	f8	εA ✓
7	1.5	1.4	1.4	17	0	✓ c9	d9	d9 ✓
8	1.4	1.0	1.2	14	-2	✓ d10	ε9 ✓	d10
9	1.9	2.0	2.0	24	0	✓ ε9i	d6 ✓	d9i
10	1.8	1.8	1.8	22	0	✓ d9	ε8 ✓	d8
11	2.6	2.1	2.4	29	-3	d10	d9 ✓	d9 ✓
12	1.0	1.3	1.2	14	1	ε10	ε10	ε10 ✓✓
13	2.4	2.6	2.5	30	1	f10	f9 ✓	f10 ✓
14	1.0	0.9	1.0	12	-1	f9	f9	f9 ✓✓
15	1.5	2.0	1.8	22	2	f8	f8	f8 ✓✓
				√				

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A	16	2.0	1.9	2.0	24	-1	f9	f10 ~ f9	✓
	17	2.1	2.3	2.2	26	1	~E9	dA ~ d8	
	18	2.8	2.6	2.7	32	-1	E7	EA ~ E7	✓
							E7		
	19	2.2	2.7	2.4	29	3	dA	d9 ~ d8	✓
	20	3.1	2.0	2.4	29	-4	f6	f6	f6	✓✓
		2.2							
	21	2.0	1.8	1.9	23	-1	c7	cA ~ c7	✓
	22	2.6	2.5	2.6	31	-1	~dA	c7 ~ d8	
	23	2.5	2.2	2.4	29	-2	d10	d9 ~ d9	✓
	24	1.7	1.3	1.5	1A	-2	d8	f9 ~ EA	✓
	25	1.3	1.4	1.4	17	0	f9	dA ~ E9	✓
	26	1.5	1.8	1.6	19	2	c8	c10	c9	✓✓
	27	1.1	1.0	1.0	12	0	~c10	d10	d10	✓
	28	1.9	1.7	1.8	22	-1	d10	d8	d9	✓✓
	29	1.1	1.1	1.1	13	0	E7	E9	EA	✓✓
	30	2.1	2.2	2.2	26	0	~c7	f8 ~ c8	
					V				

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A

31	1.2	1.4	1.3	16	1	f8	f7 –	f7	✓
32	2.3	2.2	2.2	26	0	✓c(9) 6	d6 6	d6	✓
33	2.5	2.6	2.6	31	0	c10	c8	c9	✓✓
34	2.0 2.5	2.9	2.5	30	4	✓d8	ε7 –	d8	
35	~~(1.7)~~ 2.0	2.1 2.0	2.0	24	1	✓c10	d9 –	d9	
36	2.1	1.8	2.0	24	-2	✓ε9	f10 –	ε10	
37	2.5	2.6	2.6	31	0	✓f10	ε10	ε10	✓
38	2.1 1.8	1.5	1.8	22	-3	d8	d9 –	d9	✓
39	1.6	1.7	1.6	19	1	✓d9	ε9	d9	✓
40	1.9	2.2	2.0	24	2	ε10	ε8	ε9	✓✓
41	2.4	2.3	2.4	29	-1	d7	d7	d7	✓✓
42	1.8 1.6	2.8 2.0	2.0	24	8	c9	c9	c9	✓✓
43	2.0	1.9	2.0	24	-1	ε8	ε8	ε8	✓✓
44	1.7	2.0	1.8	22	2	✓d6	ε7 ✓	ε6	
45	1.8	1.8	1.8	22	0	✓ε8	f9 –	ε9	
				✓					

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A

46	1.3	1.3	1.3	16	0	f9	f8 ✓	f8	✓
47	1.4	1.2	1.3	16	-1	✓f9	ε9	ε9	✓
48	2.3	2.3	2.3	28	0	ε10	ε9 ✓	ε9	✓
49	3.0	2.5:	2.8	34	-3	f10	f10:	f10	✓✓
50	2.4	2.3	2.4	29	-1	✓ε9	f8 ✓	ε8	
51	1.9	2.1	2.0	24	1	f8	f10	f9	✓✓
52	2.0	2.0	2.0	24	0	ε6	ε6	ε6	✓✓
53	1.8	1.9	1.8	22	1	f7	f7	f7	✓✓
54	2.9	3.2	3.0	36	2	✓d10 8	ε7	ε8	✓
55	2.6	2.4 =	2.5	30	-1	d8	d8	d8	✓✓
				V					

Checked ~~AA~~. +35 -36 0 18 (22) 15 (Checked AA.)

1072 55

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+ 424	224		
− 514	248		
0	155		
938	627	.0150	av. deviation.

1.969 mean diameter in scale readings.

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Second estimates on concentration and form for I.C. made slowly, without recorder.

Remeasures of diameter for differences of more than one scale reading.

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I.C.	Diameter 1 scale	2 Readings	mean	½ of arc		Concentration		Form	Note
✓ 7A9	4.6	3.8	4.2	50	-4	d6	d8:	d7: ✓	* pl. edge.
792	7.1	7.0	7.0	84	0?	c3	f3	f 3 ✓	
796	7.5	6.9	7.2	86	-3?	✓c4	c3 ✓	c3 ✓	
797	F.0 7.5	6.7	7.4	89	-1	d7	d5	5:d6 ✓	
✓ 79A	2.A	2.4	2.6	31	-2	d10	e10	d 10 ✓	
A00	6.9	6.8	6.8	82	0?	d7	e7.	e 7 ✓	
A03	3.9	4.1	4.0	48	1	d4i	id4	id4 ✓	
✓ 323A	4.4:	4.7:	4.6	55	1	✓d10:	e:9:✓	d 10: ✓	very narrow edge
✓ 3244	3.3	3.1	3.2	38	-1	✓e9:	f8:✓	f 9: ✓	" "
✓ 3292	4.0	4.0	4.0	48	0	d9	e9	d 9 ✓	
✓ 3293	2.A	2.5	2.6	31	-1	✓dA	e7✓	e 8 ✓	*
✓ 329A	5.3	5.1	5.2	62	-1	✓d5	e4✓	d 5 ✓	
✓ 3313	3.2	3.2	3.2	38	0	✓e10	f9✓	f 10 ✓	
✓ 3329	2.9	3.0	3.0	36	0	e9	e9:	e9: ✓	edge
✓ 334D	2.6	3.5	3.0	36	5	e6	e6	e6 ✓	

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✓	3365	f.2	7.7	8.0	96	-3	d5	d4✓	s:d5 ✓
✓	336A	2.9	3.0	3.0	36	0	dA	d8	d8 ✓
✓	3369	2.2	2.5	2.4	29	1	c10	c10	c10 ✓
✓	337A	1.9	2.0	2.0	24	0	cA	d7✓	c8 ✓
✓	3379	3.1	3.9	3.5	42	4	d6	e5✓	e5 ✓
✓	3391	6.5	7.4	7.0	84	4	e9	e7	s:e8 ✓
distorted	3392	10.0	9.2:	9.6:	115:	-4	f4	f4	s:f4 ✓
✓	3409	2.6	2.6	2.7	32	-1	eA	e9✓	e8 ✓
distorted	3410	1.9:	2.2:	2.0:	24:	2	dA:	f9:✓	d9: ✓ edge
✓	3419	2.6	2.6	2.7	32	-1	e9	e8✓	e8 ✓
✓	3422	3.1	2.9	3.0	36	-1	dA	d8	d8 ✓
✓	3423	2.4	2.4	2.4	29	0	c9	f7	f8 ✓
✓	3434	3.2	2.9	3.0	36	-1	c6	c5✓	c5 ✓
✓	3435	5.4	5.9	5.6	6.7	3	d4	c4	d4 ✓
✓	3436	2.5	2.9	2.7	32	2	e9	e9:	e9: ✓ edge

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Scale readings in μ's. 6719 Concentration + forms.

I.C.	1	2	Mean					
✓ 344F	3.8	4.7	4.2	50	5	c 7	f 7	c 7 ✓
✓ 3453	4.7 6.3	7.8	6.3	76	5	ε 2	i e 3 ✓	i e 2 ✓
✓ 3462	2.4	3.2	2.8	34	4	d 4	d 7 ✓	d 7 ✓
✓ 3471	1.9	2.7	2.3	28	4	d 9	f 9	e 9 ✓
✓ 3473	3.4	4.3	3.8	46	5	(c 4)	f 9 f 9	f 9 ✓ scrately on spot not.
✓ 3484	3.8	4.1	4.0	48	1	f 10	f 10	f 10 ✓
✓ 3505	~~3.8~~ 5.5	5.5 5.0	5.3	64		ε 3	f 3	f 3 ✓
✓ 3519	2.7	3.2	3.0	36		e 9	e 10 ✓	e 10 ✓
✓ 3522	7.5	8.2	7.8	94		f 5	f 4 ✓	f 5 ✓
✓ 352F	2.0	1.9	2.0	24		d 10	d 10	d 10 ✓
✓ 3530	4.0	3.4	3.7	44		c 10	d 7 5: c 8	✓
✓ 3534	5.0	5.0	5.0	60		ε 9	e 10 ✓	e 10 ✓
✓ 3557	2.2	2.1	2.2	26		c 6	d 6	d 6 ✓
✓ 357D	2.2	2.0	2.1	25		c 10	c 9 ✓	c 9 ✓
3601	3.1	— Defect —				f 9		defect?

Looks like two f. stars with blemish on plate between them.

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✓	3603	1.A	1.4	1.6	19		cA	d8.	c8 ✓
✓	3609	2.2	2.4	2.3	28		b10	f10	f10 ✓
✓	3612	3.A	4.8	4.3	52		d7	c8 ✓	s:c8 ✓
✓	3615	5.4	5.8	5.6	67		d5	d4 ✓	d5 ✓
✓	3621	2.3	2.6	2.4	29		c7	c7	c7 ✓
✓	3622	4.A	4.0	4.4	53		e10	e10	e10 ✓
✓	3637	5.0 5.0	N.T 5.0	5.0	60		dA	d9 ✓	d8 ✓
✓	3657	3.6	3.5	3.6	43		e7	id8 ✓	ie7 ✓
✓	3721	6.2	5.3	5.8	70		b5	f5:	s:f5 ✓
✓	3806	5.2	6.8	6.3	76		d7	e9:	e8: ✓ edge.

Mean diameter 1st measure 4.0 scale readings.
2nd " 4.3. " "

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6719 additional objects. | Do not reverse |

I.C.								
✓ 3699	1.9	2.8	2.4	29 ✓	✓ f 9	c 10	f 10 ✓
✓ 3700	1.6	2.0	1.8	22 ✓	c 10	c 9 ✓	c 9 ✓
✓ 3705	1.5	1.5	1.5	18 ✓	✓ a 9	f 9	f 9 ✓
✓ 3738	2.1	2.5	2.3	28 ✓	a 9	c 8 ✓	b 8 ✓
✓ 3745	3.2	3.1	3.2	38 ✓	d 9	f 9	c 9 ✓
✓ 3784	2.8	3.0	2.9	35 ✓	✓ c 9	f 9	c 9 ✓
✓ 3788	2.5	3.5	3.0	36 ✓	a 10	a 10	a 10 ✓
✓ 3794	2.0	1.9	2.0	24 ✓	✓ c 8	d 6	d 7 ✓

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Diameter:

3rd estimate make for differences of more than
± scale readings.

For form when differing by 1 step 2nd column chosen.

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6719

H.C.G.	Diameter 1 Scale Readings	2	Mean	"	Concentration + Form — Reverse —		
✓ 4312	17.0	19.0	18.0	216	ε2	d2 v. s: d2	✓
✓ 4321	31.0	32.	31.5	378	s a9	s a8 v	s a8 ✓
✓ 4322	4.8	3.6	4.2	50	d7	e8 v	d8 ✓
✓ 432f	3.0	3.8	3.4	41	ε10	e10	e10 ✓
✓ 4336	6.0	6.2	6.1	73	d9	e9	e9 ✓
✓ 4340	9.0	9.2	9.1	109	a4	a8 s: a8	✓
✓ 4344	4.0	4.0	4.0	48	ε10	d10	e10 ✓
✓ 4350	11.0	11.5	11.2	134	b4	c4	c4 ✓
✓ 4377	5.0	4.5	4.8	58	b9	b9	b9 ✓
✓ 4379	7.0	5.5	6.2	74	c10	d9.	c9 ✓
✓ 43f2	26.0 25.0	24.5 25.0	25.3	304	b4	a8	a8 ✓
✓ 43f3	7.5	6.3	6.9	71	b6	c6	b6 ✓
✓ 4394	15.0	16.3	15.6	187	sa10	sb10	sb10 ✓
4396	14.0	13.0	13.5	162	d2i	id3	id3 ✓
✓ 4405	7.0	7.9	7.4	89	c7	c7	s: c7 ✓

On illuminated plate frame.

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Reverse

✓	4419	14.8	15.5	14.8	178	b3	f 3	s:f 3 ✓
✓	4421	7.0	5.5	6.3	76	a 9	c 8	f 8 ✓
✓	4450	23.0	21.0	22.0	264	s b A	s f 8	s f 8 ✓
✓	4469	4.5	5.8	4.2	50	b 10	c 10 ✓	f 10 ✓
✓	4498	13.0	12.0	12.5	150	s C 6	s C 5	s C 5 ✓
✓	4501	29.0	30.0	29.5	354	s C 6	s C 5	s C 5 ✓
✓	4502	6.0	6.1	6.0	72	ε 6	e 5	e 5 ✓
✓	4515	4.0	3.7	3.8	46	c 10	c 10	c 10 ✓
✓	4516	7.5 8.0	7.1 7.5	8.3	100	b 5	c 5 ✓	c 5 ✓
✓	4523	A.D	6.5:	7.3	76	d 7	e 6 ✓	d 6 st. superposed ✓ in 2 s.
✓	4539	14.0	13.0	13.5	162	c 1	d 1 ✓	s: d 1 ✓
✓	4540	7.0	7.2	7.1	85	d 7	e 7 ✓	s: d 7 sup. ✓ star sups.
✓	4542	24.0 25.0	24.0 25.0	24.7	296	s a 10	s f 8 ✓	s f 9 ✓
✓	4561	6.0	5.9	6.0	72	c 9	i d 9 ✓	i c 9 sup. ✓ st. superposed
✓	4595	8.0	7.8	7.9	95	c 8	s: d 7 ✓	s: d 7 ✓

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Reverse

✓ 4633	11.0 10,0	8.8	9.9	119	E5	e6	e6	
✓ 4634	15.0 11,5	12,5	13.0	156	e2	f1.	e1	
✓ 4651	17.0	16.5	16.8	202	S47	SC7.	SC7	
✓ 4685	4.5:	3.0:	3.8:	46:		e9:	e9:	corner.
4710	21.0 22.0	18.7:	20.6	247	S:d3:	S:d3:	S:d3:	edge.

Mean diameter about 10 scale readings.

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Symbols for Concentration reversed from preceding measures –

Former	Present
a	= f most concentrated.
b	= e
c	= d
d	= c
e	= b
f	= a – flat surface.

1 scale reading = 1/5 mm = 12 seconds of arc.

Means of measures on C & F.

For those differing by one steps in Concent. the estimate were chosen alternately from the right and left column.

The <u>same</u> method was used for the Form.

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		Scale reading	Diameter in sec. of arc.	Concentration and form.		
A	1	2.0	24	c 8	d 10	c 9
	2	2.3	28	f 10	b 9	b 9
	3	2.3	28	a 10	b 10	b 10
	4	3.4	41	d 10	c 10	c 10
	5	3.1	37	c 9 8	b 6 8	c 8
	6	2.8	34	d 6	d 6 7	d 6
	7	2.1	25	a 8 a	a 7 a	a 8
	8	2.4	29	b 9	c 8	c 8
	9	4.0:	48:	f 10	b 10	b 10
	10	1.7	20	c 8	b 10	c 9
	11	2.5	30	d 7	c 7	c 7
	12	1.6	19	f 9	a 9	b 9
	13	2.4	29	d 6	c 5	c 6
	14	2.4	29	f 8	b 7	b 7
	15	1.9	23	f 9	c 9	b 9

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16	2.3	28	✓c8	b8	b8	.
17	3.4	41	✓f8	a7✓	b8	.
18	1.8	22	✓a10	b10	b 10	.
19	2.5	30	c 8	c8	c 8	.
20	3.7	44	✓d9:	c9	d 9	.
21	2.5	30	✓c10	d9✓	d 9	.
22	2.0	24	f 9	b10✓	b9	.
23	2.7	32	✓c7	b8✓	c 8	.
24	3.7	44	c 8	c10	c9	.
25	2.2	26	f9	b7	b8	.
26	2.0	24	c10	c10	c10	.
27	4.5	54	✓c3	b4✓	b3	s:.
~~overal~~ nebula 28 positive spiral	2.9	35	s:c 8:	s:c 6	s:c7	. d
29	3.2	38	a8	a10	a9	.
30	1.4	17 ✓	a5 6	a8 7	a6	.

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A	31	3.1	37		d5	c5	d5	
	32	3.0	36		a6	a6	a6	
	33	1.7	20		b7	b8	b8	
	34	2.3	28		c7	b8	b7	
	35	2.2	26		d9	c10	d10	
	36	1.3	16		d10	d10	d10	
	37	2.5	30		b7	b8	b7	
	38	2.0	24		d6	c6	c6	
	39	1.6	19		a10: 7	b7 6:	a8:	
	H0	2.1	25		a10	b10	b10	
	H1	1.6	19		ib9	b9	ib9	
	H2	2.0	24		a8	c10	b9	
defect? look upon A6720.	H3	2.8	34	defect	a10:	a10	a10	
	H4	2.9	35		b10	b10	b10	
	H5	1.8	22		c8	c9	c9	

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46	2.3	28	✓d 9	c 7	d 8 ✓
47	2.9	35	✓c 10	b 9 ✓	b 10
48	2.2	26	✓c 8	b 8	c 8
49	1.6	19	b 8	b 8	b 8
50	1.9	23	e 10	c 10	d 10
51	1.4	17	✓a 9	b 10 ✓	b 10
52	1.8	22	a 5	a 7 5	a 6
53	1.9	23	b 9	b 8 ✓	b 9
~~star? 54~~		— omit —	~~✓d 8~~	~~c 9 ✓~~	~~d 9~~
with scratch on it.					
55	2.3	28	✓c 6	b 6	b 6 S:
56	1.2	14	b 10	b 8	b 9
57	0.9	11	✓d 9	c 10 ✓	d 9
58	1.6	19	✓a 7:	i b 7	i b 7
59	2.2	26	b 6	b 6	b 6
60	1.6	19	✓b 7	a 8 ✓	b 8

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A	61	1.8	22	c 8	d 9	d 8	
	62	2.1	25	i c 7	i c 7	i c 7	
	63	2.7	32	b 6	b 7	b 7	
	64	2.5	30	e 10	c 9	d 10	
	65	1.8	22	d 5	c 7	d 6	
~~star~~	66	2.6	31	d 7	d 7	d 7	
	67	1.2	14	c 10	c 10	c 10	
	68	1.3	16	d 9	d 10	d 10	
	69	2.4	29	b 8	a 9	a 8	
	70	4.0:	48:	a 9	a 8	a 8	
	71	3.8	46	c 8	c 8	c 8	
	72	1.9	23	d 9	b 9	c 9	
	73	1.6	19	b 10	b 10	b 10	
	74	1.5	18	d 9	d 8	d 9	
	75	1.4	17	c 9	b 9	c 9	

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76	2.2	26	d8	c8	c 8
77	1.9	23	c10	b8	c 9
78	2.0	24	c10	c9	c 9
79	2.3	28	e6	c6	d6
80	1.4	17	b8	b8	b8
81	2.1	25	a10	a9	a 10
82	1.4	17	b8	b10	b9
83	3.3	40	c10	b10	b 10
84	1.7	20	d9	d9	d9
85	1.3	16	c10	c 10	c10
86	2.2	26	a9	a8	a8
87	2.0	24	b10	b9	b10
88	1.6	19	b9	b8	b 8
89	2.0:	24:	a10	a10	a 10
90	1.7	20	b8	b8	b8

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A	91	3.2	38	c 7	c 8 ✓	c 7	.
	92	2.8	34	✓ a 9:	b 9	a 9	.
	93	2.4	29	a 10	a 10	a 10	.
	94	4.0:	48:	b 9	b 10 ✓	b 10	.
	95	3.0:	36:	b 9	b 9	b 9	.
	96	3.0:	36:	✓ b 9	a 10 ✓	a 9	.
	97	2.9	35	c 10	c 8	c 9	.
	98	2.6	31	b 8	b 10	b 9	.
	99	2.5	30	c 10	c 7	c 8	.
	100	1.3	16	✓ b 10 (8)	a 10 (9)	b 10	.
	101	2.4	29	✓ a 7	b 6 ✓	b 6	.
	102	3.2	38 ✓	a 7	a 8 ✓	a 7	.
	103	2.4	29	d 8	d 7 ✓	d 7	.
	104	3.2	38	c 9	c 8 ✓	c 9	.
	105	1.3	16 ✓	a 7	a 9	a 8	.

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1927phae.proj.2316A

106	2.2	26		c10	c10	c10
107	2.5	30		b7	b8	b 8
108	2.2	26		d6	c 7	d 6
109	1.6	19		c9	b9	b 9
defect? 110	—		omit	~~b10~~	~~b9~~	~~b9~~
111	1.8	22		d9	d9	d9
112	2.7	32		b8	i c d	i b 8
113	1.9	23		a9	a 10	a 10
114	2.1	25		b7	b7	b7
115	1.9	23		c6	c7	c 6 S:
116	1.4	17		b8	b10	b9
117	2.9	35		a9	b8	b 8
118	1.7	20		b10	b9	b 10
119	2.4	29		d10	b7	ic 8
120	1.9	23		b8	c7	b 7

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1927phae.proj.2316A

6718

A	121	1.8	22			c9	c10 ✓	c9 .
	122			Missing.				
	123	2.4	29			c10	c10	c10 .
	124	2.3	28			✓ d9	c10 ✓	c10 .
	125	1.8	22			✓ c10	b9 ✓	c10 .
	126	1.9	23			a7	a7	a7 .
	127	1.7	20			b9	b9	b9 .
	128	1.8	22			b10	b8	b9 .
defect?	129	1.9	23			✓ a9	b7	b 8 (. peculiar — darker at edge.)
	130	2.6	31			✓ a10:	b10	a 10 .
	131	3.9	47			c8	c8	a8 .
	132	3.3	40			↓ c9	b10 ✓	b10 .
	133	2.2	26			b7	b7	b7 .
	~~134~~	~~2.5:~~	~~30:~~	— Missing —		a10	~~a~~ 10	~~a~~ 10 ..
	135	3.3	40 ↓			↓ c9:	b9	c9 .

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1927phae.proj.2316A

136	3.0:	60:	b10	b9 ✓	b 10 .
137	2.4	29	b8	a6	a 7 .
138	1.4	17	b10	b10	b10 .
139	2.7	32	b10	a10	b 10 .
140	1.6	19	c10	c8	c9 .
141	1.5	18	b8	c6	c 7 .
142	1.6	19	a7	b8 ✓	a 8
143	2.4	29	c10	b10	b 10 .
144	2.7	32	d9	c10 ✓	d 9 .
✓		✓			
145	Found first + measured on A6720 —				
146					
147					
148					
149					
150					

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1927phae.proj.2316A

First two uncorrected measures

Form: Average difference (143) .82
(2-1) " deviation .41

Systematic diff 1/2

Concentration. Average diff. .54
(2-1) " deviation .27

f=6
a=1 } Systematic diff -.19

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1927phae.proj.2316A

B	1	1.8	22	c8	c10	c9	.
	2	2.9	35	b8 ↓	a7 ✓	b7	.
	3	1.4	17	c9	c8 ✓	c9	.
scratch on top.	4	1.6	19	b A10:	b10	b10	.
	5	4.0:	48:	a10	a10	a10	.
	6	1.6	19	b9 ↓	c8 ✓	c8	.
	7	2.4	29	d:10	d:10	d:10	.
	8	2.0	24	c8	c9 ✓	c8	.
	9	2.3	28	a8	a10	a9	.
	10	2.7	32	c7	c8 ✓	c8	.
	11	3.3	40	b8: ↓	a10	b9	.
	12	1.4	17	b10	b8	b9	.
	13	2.5	30	c8	c7 ✓	c8	.
	14	1.3	16	b9	b8 ✓	b8	.
	15	1.6	19 ↓	d9 ↓	c9	c9	.

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1927phae.proj - 2316A

B	16	1.9	23		c9:	a7	b8 .
	17	1.8	22		e8	d8	e 8 .
	18	1.4	17		c10	b10:	b 10 .
	19	2.3	28		b9	c10	b 9 .
	20	2.8	34		d10	c8	c 9 .
	21	2.6	31		b8	b9	b 9 .
	22	2.3	28		c9	c8	c 9 .
	23	2.4	29		c7	c7	c7 .
	24	2.2	26		b10	a10	b 10 .
	25	1.4	17		b8	c8	c 8 .
	26	1.9	23		a9	a9	a9 .
	27	1.6	19		a8	b7	a 7 .
	28	2.8	34		b5 (7)	c8 (8)	c 8 . S:
	29	2.1	25		d9	d7	d8 .
	30	3.5:	42:		a10	a10	a 10 .

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1927phae.proj.2316A

31	1.9	23		b8	b8	b8
32	1.6	19		b7	c8	b8
33	1.7	20		c7	a7	b7
34	2.8	34		c8	c7	c8
35	2.5	30		b8	a8	a8
36	2.1	25		ic7	a6	ib6
37	1.9	23		c8	c8	c8
38	2.9	35		a10	a8	a9
~~39~~	~~1.4~~	~~17~~	Missing	~~a8~~	b7	~~a8~~
40	2.0	27		b7	b6	b6
41	2.4	29		ib6	ib8	ib7
42	3.1	37	S:	c9	c8	S: c9
43	2.2	26		c4	b4	b4
44	2.1	25		b7	c 10	b7
45	1.2	14		b10	b9	b9

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B	46	1.0	12	c10	c10	c10	.
	47	1.4	17	d8	d8	d8	.
	48	3.3	40	e5	d6	d5	.
	49	1.9	23	b10	b10	b10	.
	50	1.7	20	d7	c7	d7	.
	51	1.3	16	a8	a7	a7	.
	52	1.9	23	b8	b8	b8	.
	53	1.6	19	c10	c8	c9	.
	54	2.5	30	c6	b5	b6	.5:
	55	1.0	12	a8	a7	a7	.
	56	1.7	20	c8	c9	c8	.
	57	1.9	23	c7	c9	c8	.
	58	2.3:	28:	a9	b10	a10	.
	59	1.4	17	b9	c7	c8	.
	60	3.0:	36:	b10	c10	b10	.

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1927phae.proj.2316A

61	1.7	20	a8	a8	a8
62	1.5	18	a9	a8	a8
63	2.3	28	c8	b7	b8
64	2.8	34	d8	c8	d8
65	1.9	23	b6	b8	b7
66	1.6	19	b10	a10	a10
67	2.4	29	c9	b7	c8
68	2.3	28	a8	a8	a8
69	1.7	20	d9	c10	c10
70	0.9	11	c10	c10	c10
71	2.1	25	b7	c9	b8
72	2.0	24	d7	d8	d7
73	2.3	28	a10:	a10	a10
74	2.3	28	b7	ib8	ib8
75	1.9	23	e6	e7	e6

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1927phot.proj.2016A

B	76	2.5:	30:	✓a8	b10	b 9	✓	
	77	1.3	16	✓b8	c9✓	b 9		
	78	1.6	19	✓c7	d9	d 8	✓	
	79	2.9	35	a9	a9	a9	✓	
	80	2.8	34	b2	b4	b3	✓	S:
	81	2.1	25	b8	b9✓	b8	✓	
	82	2.3	28	b9	b8✓	b8	✓	
	83	2.2	26	a7	a9	a8	✓	
	84	1.7	20	d7	d9	d8	✓	
	85	1.3	16	✓c8	b8	c 8	✓	
	86	1.9	23	c8	a7✓	b8	✓	
star?	87	1.5	18	✓b8	c7✓	c7	✓	
	88	1.4	17	✓c9	d9	c 9	✓	
~~identity~~?	89	1.8	22	b9	a9	a9	✓	
	90	3.1	37	a10 8	ic7 9	ib 8	✓	

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1927phae.proj.2316A

91	1.4	17	b8	b8	b8	.
92		Missing.				
93	2.4	29	a6	b7	b6	.
94	1.4	17	c9	d8	c8	.
95	1.0	12	b10	b10	b10	.
96	1.3	16	c10	c10	c10	.
97	1.3	16	b8	b9	b8	.
98	1.8	22	b8	ib7	ib7	.
99	2.5	30	b5	b5	b5	. S!
100	2.3	28	c7	d8	d7	.
101	2.2	26	c6	b6	c6	.
102	1.8	22	b8	c9	c9	.
103	1.5	18	c9	c7	c8	.
104	2.7	32	c7	c7	c7	.
105	1.9	23	b8	b9	b8	.

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1927phae.proj.2316A

B	106	2.6	31	b7	cN	b7	.
				7	7		
	107	1.8	22	c8	c8	c8	.
	108	2.0	24	c9	d8	d8	.
	109	2.4	29	b4	b6	b5	.
	110	2.6	31	b7	a8	b7	.
	111	2.2	26	a8	b8	b8	.
	112	1.4	17	b8	b8	b8	.
double star?	113	2.1	25	d9	d7	d8	.
	114	2.0	24	a9	c8	b8	.
	115	2.2	26	b10	b10	b10	.
	116	2.3	28	c9	d8	c9	.
~~defect~~ ?	117	2.9	35	id8	id7	id7	. Si
	118	1.8	22	c7	c9	c8	.
	119	1.4	17	d7	c9	c8	.
	120	1.6	19	b8	b6	b7	.
		↓					

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1927phae.proj.2316A

121	2.1	25	c9	c7	c8 .
~~122~~	2.2	26	b6	b6	b6 .
IC, 3147					
123	2.1	25	c8	a8	b8 .
124	1.9	23	c8	c10	c9 .
125	1.3	16	d9	d9	d9 .
126	2.2	26	d6	d7✓	d6 .
127	2.4	29	e8	c9✓	d9 .
128	1.9	23	✓b9	c10✓	b9 .
129	1.7	20	✓c9	b10✓	b10 .
130	1.5	18	id7 9	id10 9	id9 .
131	1.7	20	b8	b8	b8 .
defect? 132	3.4	41	Yes! Scratch	a8✓	ib7 .
133	1.8	22	c8	c8	c8 .
134	1.9	23	✓d9	c9	c9 .
135	2.3	28	b8	b9✓	b9 .

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B	136	3.2	38	b10	b10	b10	✓
	137	4.1	49	b3	b4	b 3	. S:
	138	1.6	19	a9	a8	a 8	✓
	139	1.9	23	b6	b6	b6	✓
	140	1.7	20	c9	c10	c 9	✓
	141	2.0	24	a10	a10	a 10	✓
	142	1.2	14	d10	d9	d 9	✓
	143	2.1	25	a:8	a9	a 8	✓
	144	2.2	26	c 7 7	b 7 7	c 7	✓
	145	2.2	26	c9	c7	c 8	✓
	146	2.3	28	c9	b9	b 9	✓
	147	2.8	34	b9	b8	b 8	✓
	148	2.4	29	a10	b10	a 10	✓
	149	2.0	24	b10	c9	c 10	✓
	150	2.8:	34:	b10	b10	b10	✓

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1927phae.proj.2316A

151	3.1	37	b 10	b 10	b 10	✓
152	2.9	35	c 2	c 3 ✓	c 2	✓ S:
153	1.8	22	✓ i b 9	a 10 ✓	i b 10	✓
154	1.5	18	✓ a 9	i b 9	i b 9	✓
155	3.6	43	b 3	d 5	c 4	✓ S:
156	2.1	25	✓ c 7	d 8 ✓	c 7	✓
star? 157	1.0	12	✓ a 10	b 9 ✓	b 9	✓
158	2.3	28	c 9	c 8 ✓	c 9	✓
159	2.3	28	c 10	c 8	c 9	✓
160	1.5	18	b 8	d 9 ✓	c 9	✓
161	1.7	20	✓ a 7	b 7	a 7	✓
162	2.4	29	✓ b 8	c 7 ✓	c 8	✓
163	2.8	34	✓ d 10	c 10	d 10	✓
164	1.7	20	c 10	c 9 ✓	c 9	✓
165	2.7	32	i d 8	i d 8	i d 8	✓

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1927phae.proj.2316A

B	166	2.6	31	b5-	b3	b4	✓
	167	2.7	32	i b8	c10	i c9	✓
	168	1.7	20	c10	c9	c10	✓
	169	1.6	19	c9	b8	c8	✓
	170	1.8	22	b8	b9	b8	✓
	171	2.3	28	d9	c10	c10	✓
	172	2.1	25	b6	b5	b6	✓
	173	1.9	23	c10	c8	c9	✓
	174	1.9	23	i c9	a9	i b9	✓
	175	2.1	25	b8:	b8	b8	✓
	176	2.2	26	a8	c10	b9	✓
	177	1.8	22	d10	c9	d9	✓
	178	2.4	29	c9	c8	c9	✓
	179	2.0	24	c9	b8	b8	✓
	180	2.8	34	c7	c7	c7	✓

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1927phae.proj.2316A

181	2.6	31	c9	b10	c9	.
182	2.4	29	b7	c8	c8	.
183	1.7	20	a10	a9	a10	.
184	2.0	24	d10	d8	d9	.
185	1.4	17	e:10	c8	d9	.
186	1.5	18	c10	b9	c10	.
187	4.2	50	a9 (10)	b10 (10)	b10	.
188	2.3	28	d8	c9	d8	.
189	2.1	25	a10	b9	b9	.
190	2.2	26	b10	b10	b10	.
191	1.8	22	a9	a8	a9	.
192	1.9	23	a10	a9	a9	.
193	2.0	24	b10	b10	b10	.
194	2.4	29	d10	c10	d10	.
195	2.9	35	e7	c9	d8	.

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B	196	2.3	28	b6	b6	b6	✓
	197	2.4	29	c7	c5	c6	✓
	198	1.5	18	b10	a9	a10	✓
	199	2.5	30	d7	c9	d8	✓
	200	2.2	26	e8	b8	c8	✓
				c	c		
	201	1.9	23	d5	d7	d6	✓
	202	1.8	22	d7	c7	c7	✓
	203	1.9	23	a8	a8	a8	✓
	204	1.6	19	e6	e7	e7	✓
	205	1.2	14	a7	a8	a7	✓
	206	1.3	16	d7	b8	c8	✓
	207	1.3	16	d10	d9	d10	✓
	208	2.2	26	b8	b6	b7	✓
	209	1.9	23	b7	d8	c8	✓
	210	2.6	31	c10	c10	c10	✓

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211	1.4	17	d9	c8	d9	✓
212	2.0	24	c9	c10	c10	✓
213	1.7	20	b8	b8	b8	✓
214	3.1	37	d5	ic5	//c5	S:✓
215	2.5:	30:	a8	a7	a8	✓
216	4.0	48	ib7	b8	ib8	✓
217	1.6	19	c6 6	c9 8	c7	✓
218	1.3	16	d9	d10	d9	✓
219	1.6	19	d7	c8	d8	✓
220	2.9	35	c5	c5	c5	✓
221	2.5	30	b10	b8	b9	✓
222	2.0	24	c8	c7	c8	✓
223	1.6	19	d10:	d10:	d10:	✓
224	1.4	17	a9	b8	b8	✓
225	1.8	22	id# 7	ic7 8	id7	✓

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B	226	2.3	28	a 7	b 6	b 7	i
	227	1.9	23	d 8	d 9	d 9	
double	228	2.0	24	i d 7	i d 5	i d 6	
	229	2.4	29	a 10	a 10	a 10	
	230	2.2	26	b 6	b 7	b 6	
	231	1.7	20	b 7	b 8	b 8	
	232	3.2	38	c 6	b 6	c 6	
	233	1.6	19	d 8	c 9	c 8	
	234	1.1	13	a 10	b 10	a 10	
	235	2.2	26	b 8	b 9	b 9	
	236	1.2	14	c 9	c 10	c 9	
	237	1.7	20	c 9	c 10	c 10	
	238	2.2	26	b 8	b 9	b 8	
	239	5.1	61	d 4	c 4	c 4	S:
	240	2.0	24	e 8	d 9	e 9	

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1927phae.proj.2316A

241	2.0	24	b10	b10	b10 ✓
242	1.4	17	d7	b8	c7 ✓
243	1.9	23	b7	b9	b8 ✓
244	2.0	24	c8	c7	c7 ✓
245	2.4	29	c9	b8	b9 ✓
246	2.5	30	c8	c8	c8 ✓
247	1.6	19	d10	c10	d10 ✓
248	3.1	37	a4	a3	a3 ✓
249	2.6	31	a10	a9	a10 ✓
250		Missing			
251	2.1	25	a10	a10	a10 ✓
252	2.0	24	c7	c6	c6 ✓
253	2.2	26	ib8	ib7	ib8 ✓
254	2.4	29	c7	b7	b7 ✓
255	1.8	22	d8	c8	d8 ✓

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B	256	1.3	16	c7	b8	b8	.
	257	1.7	20	d8	d8	d8	.
	258	1.3	16	b9	a9	b9	.
	259	1.3	16	b8	b9	b8	.
	260	1.1	13	a10	a10	a10	.
	261	1.9	23	b7	b9	b8	.
	262	3.1	37	d8	d8	d8	.
	263	1.8	22	c7	c7	c7	.
	264	1.5	18	c8	c9	c9	.
	265	2.2	26	b9	b10	b9	.
	266	2.8	34	b6	b6	b6	.
	267	1.0	12	c10	c10	c10	.
	268	2.3	28	b10	c9	b9	.
	269	2.0	24	a8	a10	a9	.
	270	2.5	30	d7	c5	c6	. S:

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271	1.3	16	c8	d8	c8
272	1.2	14	b8	b7	b7
273	1.5	18	d9	d9	d9
274					
275					
276					
277					
278					
279					
280					

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C	1	2.3	28	c9	c10	c 9	✓
	2	2.6	31	b8:	b 8	b8	✓
	3	2.2	26	a8	b9	a 9	✓
	4	2.8	34	b8	c 7	c 8	✓
	5	2.0	24	c10	b10	c 10	✓
	6	2.9	35	c5	b6	b 6	✓
	7	1.7	20	b9	b10	b 9	✓
	8	2.1	25	b9	c10	b 10	✓
	9	3.8	46	d6	c5	c 6	✓ S:
	10	2.4	29	b8:	b9	b 9	✓
	11	2.0	24	c9	c10	c 9	✓
	12	2.4	29	c8	b8	c 8	✓
	13	1.7	20	b5	b8	b 6	✓
				5	6		
	14	2.2	26	c7	a9	b 8	✓
	15	2.7	32	c6	b8	b 7	✓

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16	2.6	31	d8	c10	d9	.
17	1.8	22	b7	b7	b7	.
18	1.8	22	b7:	bq	b8	.
19	2.0	24	a8	a7	a7	.
20	1.2	14	ibq	c:10	ic9	.
21	1.4	17	ib8	dq	ic9	.
22	1.9	23	c8	c8	c8	.
23	2.1	25	c10	c10	c10	.
24	1.4	17	c10	c10	c10	.
25	2.3	28	b10	b10	b10	.
26	1.3	16	d8	c8	d8	.
27	1.8	22	e:10	d10	d10	.
28	1.9	23	c5	b8	c7	.S:
29	1.2	14	b8	cq	c8	.
30	2.1	25	bq	bq	bq	.

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31	3.2	38	a10	a10	a10	✓
32	1.8	22	c10	b10	c10	✓
33	1.6	19	b9	b9	b9	✓
34		cracked.				
35	2.3	28	c9	c9	c9	✓
36	1.7	20	a8	a8	a8	
37	~~1.9~~	~~23~~ defect	b9	~~b7~~	~~b8~~	✓
38	2.2	26	ic7	icb	ic6	✓
39	2.5	30	b10 10	a7 8	b9	✓
40	1.8	22	b7	b7	b7	✓
41	2.1	25	c10	c10	c10	✓
42	2.5	30	c7	c8	c7	✓
43	2.4	29	b10	b8	b9	✓
44	1.9	23	a6	a7	a7	✓
45	2.8	34	c8	d9	d8	✓

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46	2.7	32	c8	c8	c8	.
47	1.3	16	b9	b8 ✓	b 8	.
48	2.5	30	✓ e 11: 8	d9 8	e 8	.
49	1.7	20	b10	b10	b10	.
50	1.8	22	c8	c9 ✓	c 8	.
51	2.3	28	b10	b10	b10	.
52	1.7	20	✓ c10	d10	d10	.
53	1.2	14	✓ a7	b9	a 8	.
54	2.0	24	c9	c8 ✓	c8	.
55	1.6	19	✓ b10	a9 ✓	a 10	.
56	1.6	19	a8	a7 ✓	a 7	.
57	2.9	35	c5	c6 ✓	c 5	.
58	2.5	30	d9	d9	d9	.
59	1.7	20	✓ d8	c8	d 8	.
60	2.6	31	✓ i c 4	i b 5 ✓	A b 5	. S:

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C	61	1.4	17	c10	b10	c10	✓
	62	1.3	16	c8	c8	c8	✓
	63	2.2	26	a10	c8	b9	✓
	64	1.8	22	b7	i b7	i b7	✓
	65	1.5	18	b8	b8	b8	✓
	66	2.8	34	c10	a10	b10	✓
	67	2.8	34	b8	c9	c8	✓
	68	3.0:	36	a10	b10	a10	✓
	69		cracked				
	70	2.4	29	d5	d5	d5	✓
	71	2.1	25	c9	c7	c8	✓
	72	1.4	17	c7	b6	b6	✓
	73	1.3	16	a8	b9	a8	✓
	74	2.0	24	b10	b10	b10	✓
	75	1.8	22	b9	c8	c8	✓

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			l	l	
76	2.2	26	c9	c9	c9 ✓
77	1.9	23	✓c10	b8	c9 ✓
78	2.5	30	✓b9	c8✓	c9 ✓
79	3.1	37	d8	d7✓	d7 ✓
80	2.0	24	b10	b10	b10 ✓
81	3.2	38	c10	a10	b10 ✓
82	2.8	34	b10	b8	b9 ✓
83	1.9	23	c10	a10	b10 ✓
84	1.9	23	b10	b8	b9 ✓
85	2.1	25	a7	ia8✓	ia7 ✓
86	2.0	24	a10	a8	a9 ✓
87	2.6	31	✓c10 9	d7 9	c9 ✓
88	2.3	28	b8	b8	b8 ✓
89		cracked			
90	2.2	26	a10	a10	a10 ✓

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1927phae.proj.2310A

					R	R	
C	91	1.3	16		a10	aq ✓	aq
	92	1.2	14		b8	b6	b7 ✓
	93	2.2	26		c8	c8	c8 ✓
	94	2.6	31		✓ cq	bq	bq ✓
	95	1.8	22		✓ bq	a10 ✓	bq ✓
	96	3.2	38		✓ b8	cq ✓	cq ✓
	97	1.5	18		✓ c10	b10	c 10 ✓
	98	2.1	25		✓ a8	b7 ✓	b 8 ✓
	99	2.4	29		aq	aq	aq ✓
	100	1.6	19		dq	d8 ✓	d 8 ✓
	101	1.3	16		a10	aq ✓	a10 ✓
	102	2.2	26		✓ b10	aq ✓	b q ✓
	103		Cracked				
	104	1.5	18		b7	b7	b7 ✓
	105	1.8	22		b7	b8 ✓	b7 ✓

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			r	r	
106	1.7	20	c8	c7 ✓	c7 ✓
107	1.2	14	✓a9	b9	b9 ✓
108	1.7	20	b8	b6	b7 ✓
109	1.3	16	c9	c8 ✓	c9 ✓
110	2.0	24	b6	b8	b7 ✓
111	1.2	14	c10	c10	c10 ✓
112	1.9	23	b10	b9 ✓	b9 ✓
113	1.8	22	d9	d9	d9 ✓
114	1.6	19	b9	b10 ✓	b9 ✓
115	2.0	24	✓c8	b8	c8 ✓
116	2.0	24	e10	c10	d10 ✓
117	1.7	20	d10	d10	d10 ✓
118	2.1	25	✓b10	a10:	a10 ✓
119	2.3	28	d9	d9	d9 ✓
120	1.9	23	b10	b10	b10 ✓

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C 121	2.2	26		b7	b8 ✓	b8 ✓
C 122	3.1	37		"		c4 ✓

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I

Third estimate of diameter made for differences of more than 1 scale reading in 1st two estimates.

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1927phae.proj.2356A

Concentration and Form

I.C.

✓	767	2.6	2.7	2.6	31	b9	f9	f9 ✓
✓	768	7.0	7.5	7.2	86	✓d6	e6	S:d6 ✓
✓	769	13.0	14.0	13.5	162	sd7	sd7	sd7 ✓
✓	771	3.4	4.3	3.8	46	e7	c7	d7 ✓
✓	775	2.2	2.1	2.2	26	b7	f9	f8 ✓
✓	794	~~5.6~~ 4.0	3.8 3.5	3.8	46	c10	c8	c9 ✓
✓	2990	2.8	3.0	2.9	35	✓c6	f8	f7 ✓
✓	2991	3.2	3.2	3.2	38	b7	f7	b7 ✓
✓	2994	3.0	2.8	2.9	35	✓c10	f8	c9 ✓
✓	3004	5.0	5.7	5.4	65	✓b8	c8	c8 ✓
✓	3006	3.6	3.2	3.4	41	ic6	ic6	ic6 ✓
✓	3008	4.1	4.3	4.2	50	b7	f7	f7 ✓
✓	3012	2.9	2.5	2.7	32	d6	f6	c6 ✓
✓	3013	3.7	3.9	3.8	46	d10	d10	d10 ✓
✓	3016	3.2	2.7	3.0	36	✓c9	f10✓	c10 ✓

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3018? See page 114.

✓	3017	3.4	3.9	3.6	43	b5	f6 ✓	f5
✓	3019	5.0 7.0	8.0:	7.0:	84:	✓c10	d8	d9
?	3020	2.5 3.6	3.8	3.3	40	c10:	c:10:	c10:
	3021	7.0 8.0	8.8	7.9	95	b9	f9	f9
✓	3023	6.5	6.5	6.5	78	✓c 7	f7 7	c7
✓	3024	4.7	5.5	5.1	61	e4	e4	s: e4
✓	3025	3.7 3.0	2.5	3.1	37	d6	d6	d6
	3027			yes, defect.		✓b10	c10	c10
	(defect - spot at centre?							
✓	3028	2.8	2.0	2.4	29	✓c9	f9	c9
✓	3029	2.9 3.8	4.3	3.7	44	ic7	c8 ✓	ic8
✓	3030	3.2	2.4	2.8	34	✓a10	f10	f10
	(also defect?							
✓	3031	3.8 4.6	5.2	4.5	54	a4	a5 ✓	a4
✓	3032	2.3	2.0	2.2	26	c10	c9 ✓	c9
✓	3033	6.8 6.5	5.7	6.3	76	b6	f5 ✓	if6
✓	3034	3.8	4.0	3.9	47	b5	f6 ✓	f6

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I.C.

✓ 3036	8.2 7.3	6.3	7.3	88	S:	C8	C8	S:C8	✓
✓ 3037	3.0	3.0	3.0	36		C10	f9.	f10	✓
✓ 3038	3.3	2.5	2.9	35		d9	d9	d9	✓
✓ 3039	4.5 5.0	6.0	5.2	62		e4	e6	e5	✓
✓ 3040	4.6	4.4	4.5	54		b10	f8	f9	✓
✓ 3041	3.4	3.0	3.2	38		~~c2~~	~~c4~~	S:C3	✓
✓ 3043	3.7	3.9	3.8	46		b3	f4.	S:f4	✓
✓ 3044	7.5 6.5	6.3	6.8	82		c7	c7	ic7	✓
✓ 3046	8.5	8.0	8.2	98		✓e1	✓d1	S:e1	✓
✓ 3047	1.9	2.0	2.0	24		b7	b7	b7	✓
✓ 3049	4.5	4.0	4.2	50		c9 8	ic6	ic8	✓
✓ 3052	2.9	1.9	2.4	29		a8	a9.	a8	✓
✓ 3053	3.0	2.8	2.9	35		✓d9	c7	c8	✓
✓ 3054	4.1	4.0	4.0	48		b9	f9	f9	✓
✓ 3055	2.3	2.7	2.5	30		✓ic5	id6	ic6	✓

3056 see pg. 114

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✓	3058	4.7	4.0	4.4	53	i b10	i f7	i f9	✓
✓	3059	5.0:	6.0	5.5	66	b10	f10	f10	✓
✓	3060	3.1	2.9	3.0	36	✓d8	c7✓	c8	✓
✓	3061	10.8 9.8	9.2	9.9	119	c1	c2 ✓S:	c2	✓
✓	3062	5.3	4.8	5.0	60	c10	c8	c9	✓
✓	3063	3.6	4.0	3.8	46	✓e6	d8	e7	✓
✓	3065	3.8	4.0	3.9	47	✓d10	c10	d10	✓
✓	3066	4.6	5.0	4.8	58	b2	f2	S: f2	✓
✓	3068	4.2	4.5	4.4	53	✓d2	c4	c3	✓
✓	3069	2.2	2.7	2.4	29	✓b6	a6	b6	✓
✓	3073	4.3 4.0	3.0	3.8	46	✓c6	f9	f7	✓
✓	3074	11.4	11.9	11.6	139	b1 7	f1	S: f1	✓
✓	3077	6.5	6.0	6.2	74	c8	c8	c8	✓
✓	3078	2.0	2.3	2.2	26	d8	d9✓	d8	✓
✓	3079	2.6	2.0	2.3	28	c9	c10✓	c10	✓

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I. C.

✓	3080	3.4	3.2	3.3	40	e10	e10	e10	✓
✓	3081	3.8	3.4	3.6	43	c5	c6✓	5:c5	✓
✓	3091	2.5	2.5	2.5	30	c7	c10	c7	✓
	star sup. s.p.					7	7		
✓	3092	2.2	2.3	2.2	26	b9	b8✓	b8	✓
✓	3093	1.8	1.9	1.8	22	b8	b8	b8	✓
✓	3094	2.4	2.4	2.4	29	✓d8	c9	d8	✓
✓	3096	5.8	6.5	6.2	74	b4	b3✓	b3	✓
✓	3097	3.7	3.0	3.4	41	d8	d6	d7	✓
✓	3099	10.9 10.0	9.0	10.0	120	b2	b2	5:b2	✓
✓	3100	7.4	6.5	7.0	84	c6	c6	c6	✓
✓	3101	1.6	2.0	1.8	22	✓c10	b8	b9	✓
✓	3105	6.8	6.9	6.8	82	c2	c2	5:c2	✓
✓	3106	2.9	2.0	2.4	29	b9	b9	b9	✓
✓	3107	6.7	6.0	6.4	77	✓e7	d5	e6	✓
✓	3108	3.3	2.5	2.9	35	e5 e6	b9 e6	e6	✓

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✓	3109	4.4 2.9	3.0	3.4	41	c10	c10	c10.	✓
✓	3118	5.0 7.0	8.5	6.8	82	b7	f6 ✓	b7	✓
✓	3120	1.6	2.4	2.0	24	c8	e8	d8	✓
✓	3121	2.9	2.6	2.8	34	c8	c8	c8	✓
	3126 see page 114								
✓	3127	4.2	3.7	4.0	48	b9	f9	f9	✓
✓	3128	3.0	3.3	3.2	38	i c7	i c5	i c6	✓
✓	3137	4.6	5.6	4.1	49	a3	a3	s: a3	✓
✓	3138	2.9	2.1	2.5	30	d4 star att n. f.	d4	d4	✓
✓	3142	4.4 4.6	6.7	5.2	62	c8	c7 ✓	c7	✓
✓	3147	2.7	3.0	2.8	34	✓e6	d5 ✓	d6	✓
✓	3149	2.6	2.3	2.4	29	✓d8	e10	d9	✓
✓	3151	4.0	4.5	4.2	50	d8	d8	d8	✓
✓	3157	4.3	4.4	4.4	53	d5	d5	d5	✓
✓	3159	2.5	2.2	2.4	29	✓b8	c9 ✓	c9	✓
✓	3167	4.1	4.9	4.5	54	c9	f9	c9	✓

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I.C.

✓ 3170	3.4	3.5	3.4	41	c10	c10	i c10	✓
✓ 3173	2.3	1.6	2.0	24	d7	d7	d7	✓
✓ 3174	2.6	2.4	2.5	30	✓c7	f7	b7	✓
✓ 3175	2.9	2.7	2.8	34	d6	d6	d6	✓
✓ 3177	~~10.7~~ 8.5	7.5 7.5	7.8	94	a1	a1	s: a1	✓
✓ 3187	4.2	4.0	4.1	49	b7	f7	f7	✓
✓ 3188	4.1	4.2	4.2	50	✓d9	c9	d9	✓
✓ 3192	3.4 2.3	2.0	2.6	31	✓b10	c10	c10	✓
✓ 3196	2.7	2.8	2.8	34	✓c5	d4	c5	✓
✓ 3199	2.9	2.6	2.8	34	✓d10	c10	c10	✓
✓ 3208	6.3	5.5	5.9	71	b3	f4	f4	✓
✓ 3209	4.4	5.0	4.7	56	d4	d3	s: d4	✓
✓ 3220	5.8	5.0	5.4	65	b7	f6	f6	✓
✓ 3224	2.4	2.1	2.2	26	c8	e7	d8	✓
✓ 3233	3.3	2.9	3.1	37	b5	f5	f5	✓

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✓	3235	3.0	3.0	3.0	36	b7	f7	f7	✓
✓	3236	2.1	2.0	2.0	24	✓b10	c9✓	f9	✓
edge✓	3238	2.8:	3.1	3.0	36	✓b10:	c9:	c9:	✓
✓	3239	4.4	3.5	4.0	48	✓a6	f6	a6	✓
✓	3240	2.3	2.0	2.2	26	a9	a8✓	a9	✓
✓	3244	2.8	2.6	2.7	32	✓c10	f9✓	c9	✓
✓	3246	2.0	2.3	2.2	26	b10	f10	f10	✓
✓	3255	2.9	2.4	2.6	31	c10	c10	c10:	✓
✓	3258	6.7	7.3	7.0	84	se10	se9✓	se10	✓
✓	3261	5.6	5.0	5.3	63	a7	a7	a7	✓
3274? ✓	3275	2.0	2.6	2.3	28	✓c9	d7	d8	✓
✓	3280	4.4	4.0	4.2	50	b10	f10	f10	✓
✓	3284	3.8	3.5	3.6	43	✓d10	c10	d10	✓
✓	3291	2.2	2.0	2.1	25	✓b8	c8	c8	✓
✓	3303	5.4 4.0	3.6	4.3	52	c6	c6	c6	✓

3301. See pg 114

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I.C.			8.0	94					
✓ 3305	~~5.0~~ 4.9	3.2	~~4.1~~	~~49~~		c7 4	f4 5	~~#~~ c4	✓
3311	8.3	9.2	8.8	106	?	a2	a2	a2	✓
✓ 3315	2.2	2.5	2.4	29		c10	f10	f10	✓
✓ 3328	5.5	5.1	5.3	64.		b10	c10	f10	✓
✓ 3331	5.0	5.0	5.0	60		b7	c8 ✓	c8	✓
✓ 3344	4.5	3.7	4.1	49		c8	c7 ✓	c8	✓
✓ 3346	4.4	3.4	3.9	47		b10	f10	f10	✓
✓ 3347	2.7	3.0	3.8	46		a8	a8	a8	✓
✓ 3349	3.8	3.3	3.6	43		c10	c10	c10	✓
✓ 3355	6.6	7.5	7.0	84		ib5	if5	if5	✓
✓ 3356	4.6	4.0	4.3	52		b8	c10	f9	✓
✓ 3357	3.4	2.4	2.9	35		c10	d10	d10	✓
✓ 3358	4.0	4.9	4.4	53		c10	c10	c10	✓
✓ 3361	3.6 6.0	5.5	5.0	60		b7	f7	f7	✓
✓ 3363	7.2 6.0	6.0	6.4	77		b8	f7	f7	✓

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✓	3371	7.6 7.0	6.2	6.9	83	a2	a2 br. st. s. f.	S: a2	✓
✓	3374	4.8 2.9	3.0	3.6	43	b10	f10	f10	✓
✓	3381	~~6.2~~ 4.0	3.3 4.3	3.9	47	d10	d10	d10:	✓
✓	3382	5.2	6.0	5.6	67	✓c5	b6✓	c5	✓
✓	3383	2.9	3.4	3.2	38	✓b8	c10	c9	✓
✓	3386	4.0 3.0	2.7	3.2	38	a9	a7	a8	✓
✓	3388	2.9	2.6	2.8	34	b9	f9	f9:	✓
-	3393	4.8	4.4	4.6	55	c7	c9	c8 6	✓
corner	3412	3.0:	4.0:	3.5	42:	✓b10:	c9:	f 9:	✓
✓	8413	6.7 4.9	4.7 5.0	7.1	85	c9	c9	c9	✓
✓	3416	4.8	4.7	4.8	58	a8	a7✓	a7:(i)	✓
			Supplementary:						
✓	3018	3.8	3.2	3.5	42	f6	f6	f6	✓
✓	3056	8.1 7.5	6.5	7.4	89	✓a3	f3	if 3	✓
double?									
✓	3126	3.1	3.2	3.2	38	✓a9	f8✓	a9	✓
✓	3301	2.3	3.0	2.6	31	c8	c8	c8	✓

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N.G.C.							
✓ 4067	7.0	6.8	6.9	83	dg	d8✓	d 8 ✓
✓ 4078	3.3	4.4	3.8	46	bg	fg	fg ✓
✓ 4082	2.6	3.4	3.0	36	✓c7	f6✓	c7 ✓
✓ 4083	1.8	2.5	2.2	26.	b7	f9	f10 ✓
✓ 4124	16.9 18.3	19.4	18.2	218	e5	e4✓	S:e4 ✓
✓ 4164	1.7	1.7	1.7	20	✓dg	c8✓	c9 ✓
✓ 4165	6.4	6.5	6.4	77	e7	e7	e7 ✓
✓ 4168	7.0	7.3	7.2	86	✓d10	d10	d10 ✓
✓ 4178	24.0	23.6	23.8	286	se4	se4	se4 ✓
✓ 4189	11.5	10.6	11.0	132	sdg	sdg	sdg ✓
✓ 4193	13.5 12.2	11.4	12.4	149	d5	d4✓	S:d 4
✓ 4200	8.7	7.0	7.8	94	✓e7	d6✓	e7
✓ 4206	26.0	25.0	25.5	306	c2	c2	Sc2
✓ 4207	7.7	7.3	7.5	90	✓c6	d5✓	d5
✓ 4212	13.5	12.8	13.2	158	✓sd7	se7	sd7

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✓	4216	38.0 42.0	41.0	30.0	360		vse2	sf2	sf2 ✓
✓	4222	13.5	14.5	14.0	168		b2	f2	s:f2 ✓
✓	4254	25.0	24.5	24.8	298		sd10	sd10	sd10 ✓
✓	4267	9.0 11.5	12.0	10.8	130		f10	f10	f10 ✓
✓	4294	13.0	12.5	12.8	154		sc5	sc5	sc5 ✓
✓	4298	14.0	16.0	15.0	180		c8	s:c7	s:c8 ✓
✓	4299	7.3	7.6	7.4	89		ib10	s:f10	s:f10 ✓
	4302	25.0	25.0	25.0	300	?	b1	f2	f2 ✓
✓	4305	8.0	8.0	8.0	96		e6	e7	e7 ✓
✓	4306	4.0	4.0	4.0	48		d10	c10	d10 ✓
	4313	17.5	16.6	17.0	204	?	e3	e2	e3 ✓
✓	4316	11.0	11.0	11.0	132		c4	e3	c3 ✓
✓	4320	2.0	2.0	2.0	24		b10	f10	f10 ✓
✓	4325	2.2	2.2	2.2	26		c10	c10	c10 ✓
	4330	22.0	20.0	21.0	256		b1	f1	s:f1 ✓

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N.G.C.							
✓ 4351	11.2 11.0	8.5	10.2	122	d8	d7. S: d8	✓
✓ 4352	7.3	7.8	7.6	91	f5	e4.	e4 ✓
✓ 4360	3.0	4.0	3.5	42	✓b10:	c10:	c10: ✓ edge.
✓ 4371	8.3	7.7	8.0	96	e8	e6	e7 ✓
✓ 4374	14.0	13.0	13.5	162	✓c10	d10	c10 ✓
✓ 4380	16.0	16.5	16.2	194	e6	e6	S: e6 ✓
✓ 4387	5.4.	5.6.	5.5.	66	✓c7	d7	d7 ✓
✓ 4388	20.0 26.0	25.0	23.7	284	sc2	sc2	sc2 ✓
✓ 4390	9.2	8.0	8.6	103	b8	f8	f8 ✓
✓ 4402	17.9	16.9	17.4	209	ib3	ib3	ib3 ✓
✓ 4406	15.0: 20.5	22.0	19.2	230	d10	d10	d10 ✓
~~4407~~							
✓ 4413	8.9	7.5	8.2	98	✓d9	e8 ✓	d9 ✓
✓ 4417	11.7	12.5	12.1	145	d7	d7	d7 ✓
✓ 4424	13.0	13.0	13.0	156	c6:	c6:	c6: ✓ edge

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✓	4425	11.0 12.0	13.2	12.1	145	c5	c4✓	c4 ✓
✓	4429	19.0	18.4	18.7	224	d4	d4 s:	d4 ✓
✓	4431	7.0	5.7	6.4	77	✓c6	f6	c6 ✓
✓	4435	9.5	10.0	9.8	118	b7	d8✓	c7 ✓
✓	4436	7.0	6.5	6.8	82	✓b8	c8	c8 ✓
✓	4438	38.0	36.0:	37.0:	444:	id4	id4	id4 (very ✓ faint outlying parts)
✓	4440	9.5	8.8	9.2	110	d7	f7	s e 7 ✓
✓	4442	14.0	14.0	14.0	168	d5	d5:	d5: ✓ corner
✓	4445	12.0	10.4	11.2	134	a4	a5✓	a5 ✓ corner
✓	4446 4447	3.3	3.8	3.6	43	b8	f10	f9 ✓
✓	4451	5.0	5.0	5.0	60	✓a10	f8	a9 ✓
✓	4452	9.2	9.1	9.2	110	b2	f3✓	f2 ✓
✓	4458	6.0	4.2	5.1	61	c9	c9	c9: ✓
✓	4459	9.5	8.7	9.1	109	d10	d10	d10 ✓
✓	4461	13.0	13.0	13.0	156	e6	e5✓	e5 ✓

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N.G.C.								
✓ 4468	4.0	5.0	4.5	54	✓ a9	f9	f9	✓
✓ 4473	14.0	13.5	13.8	166	✓ e5 7	d8	e7	✓
✓ 4474	5.0:	7.0:	6.0:	72:	b10:	f10	f10:	✓ scratched at edge of plate
badly scratched.								
✓ 4476	5.0	5.0	5.0	60	b10:	f10:	f10:	✓ edge
✓ 4477	16.5 13.5	14.0	14.7	176	d7:	d9:	d8:	✓ edge.

✓

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1927pheo.proj..234A

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Means for C. + F.

For differences of one step in Concentration the estimates were chosen alternately from the right + left.

For differences of one step in Force the estimates were chosen alternately odd and even.

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1927phae..proj..231GA

6720.

		Scale readings.	Seconds of arc. (1 scale reading = 12 seconds of arc)			
A	1	4.0:	48: ✓	✓b6:	a8	b7
	2	1.7	20 ✓	✓b9	c10 ✓	c10
	3	2.3	28 ✓	b7	b7	b7
	4	2.9	35 ✓	✓b10:	a8	b9
	5	2.6	31 ✓	c10	c10	c10
	6	5.0:	60: ✓	✓d7	e7	S:27
	7	1.8	22 ✓	b8	b8	b8
	8	2.3	28 ✓	a8	a8	a8
	9	2.5	30 ✓	b10	b10	b10
	10	3.0	36 ✓	a9	a7	a8
	11	2.4	29 ✓	✓a9	b9	a9
	12	2.1	25 ✓	b10	b10	b10
	13	2.0	24 ✓	b9	b7	b8
	14	1.6	19 ✓	c9	c8 ✓	c9
	15	1.5	18 ✓	c8	c10	c9

✓

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1927phae.proj.2316A

16	1.7	20	b 8	c 8	c 8
17	1.2	14	c 9	d 9	c 9
18	1.5	18	d 9	d 9	d 9
19	2.2	26	a 8	b 8	b 8
20	1.3	16	d 8	c 9	d 8
21	1.1	13	b 10	b 10	b 10
22	2.0	24	b 10	b 9	b 9
22a	1.1	13	c 9	c 10	c 10
23	1.8	22	d 8	d 8	d 8
24	1.6	19	b 7	a 7	a 7
25	1.4	17	b 8	b 6	b 7
26	2.3	28	b 9	b 8	b 9
27	2.0:	24	a 10	b 9	a 10
28	1.8	22	c 8	c 7	c 7
29	2.1	25	c 9	b 9	b 9
30	1.5	18	b 10	b 8	b 9

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1927phae.proj.2316A

A	31	2.6	31	b4	c7	b 5	X
	32	2.8	34	c10	b10	b 10	
	33	2.7	32	b10	c10	s: b10	
	34	1.5	18	b9	b8.	b 8	
	35	2.6	31	c8	c7.	c 7	
	36	1.9	23	d9	d8.	d 8	
	37	1.8	22	b10	a9.	a 9	
	38	2.3	28	c3	c5	s: c4	
	39	2.2	26	c7	b6.	c6	
	40	2.7	32	b5	b5.	b5	
	41	3.4	41	c6	a6	b6	
	42	2.4	29	c9	b8.	b9	
	43	1.5	18	b10 7	b7 7	b 7	X
	44	2.6	31	a7	a8.	a 8	
	45	1.3	16	d7	c6.	d 7	

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46	2.0	24 ✓	✓ c8	b7 ✓	b 8
47	2.5 :	30 ✓	c10	c8	c9
48	2.1	25 ✓	c8	c7 ✓	c 7
49	1.9	23 ✓	✓ b7	c7	b 7
50	2.8	34 ✓	B9 *	b8 ✓	b 8
51	2.4	29 ✓	c10	c10	c10
52	2.0	24 ✓	a10	a10	a10
53	2.9	35 ✓	b6	b6	b6
54	2.2	26 ✓	✓ c10	d 10	d 10
55	1.8	22 ✓	a8	c8	b8
56	2.3	28 ✓	c10	c10	c10
57	1.9	23 ✓	a8	a7 ✓	a7
58	1.2	14 ✓	✓ b9	c8 ✓	b 8
59	1.4	17 ✓	c8	c7 ✓	c 7
60	1.9	23 ✓	✓ a 9	ib 10 ✓	ib 10

✓ Continued on pg. 157

* to be read throughout.

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1927phae.proj.2316A

6720

B

1	3.3	40 ✓	✓ d 5	c 5	S: d 5
2	1.9	23 ✓	c 10	c 9 ✓	c 9
3	1.4	17 ✓	c 10	c 10	c 10
4	2.2	26 ✓	✓ d 9	e 8 ✓	e 8
5	1.6	19 ✓	✓ b 10	a 10	f 10
6	2.4	29 ✓	b 10	b 9 ✓	b 9
7	3.0:	36: ✓	d 4: 5:	b 10	S: c 6:
8	2.0	24 ✓	✓ a 8	b 9 ✓	b 8
9	1.7	20 ✓	✓ c 9	d 7	c 8
10	1.9	23 ✓	b 7	b 6 ✓	b 7
11	1.7	20 ✓	d 7	d 6 ✓	d 6
12	1.8	22 ✓	✓ a 10	b 8	b 9
13	1.6	19 ✓	f 10	f 10	f 10
14	1.4	17 ✓	b 9	d 9	c 9
15	1.3	16 ✓	d 8	d 10	d 9

✓

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16	1.4	17 ✓	c9	c8 ✓	c9
17	1.1	13 ✓	b8	b9 ✓	b8
18	1.7	20 ✓	c9	c10 ✓	c9
19	1.5	18 ✓	d9	b8 ✓	c8
20	1.5	18 ✓	b10	b10	b10
21	2.1	25 ✓	c10	c8	c9
22	5.0	60 ✓	b7	b7	S: b7
23	2.2	26 ✓	a10	c8	b9
24	1.7	20 ✓	b9	b8 ✓	b9
25	1.4	17 ✓	c9	c10 ✓	c10
26	1.8	22 ✓	✓c6	b6	S: b6
27	1.2	14 ✓	a10	a9 ✓	a9
28	1.3	16 ✓	b7	b7	b7
29	4.5	54 ✓	✓b9	a10 ✓	b10
30 ✓	1.0	12 ✓	✓b8	c10	c9

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B	31	1.9	23 ✓		c6	f8	c7
	32	1.7	20 ✓		f7	f6	f7
	33	2.2	26 ✓		a6	a7	i a6
	34	3.1	37 ✓		d4	d4	S d4
	35	1.5	18 ✓		c9	c8	e9
	36	1.9	23 ✓		a9	a8	a8
	37	1.7	20 ✓		b8	a9	a9
	38	2.1	25 ✓		a5	a5	a5
	39	1.8	22 ✓		b7	b8	b8
	40	1.5	18 ✓		d9	d10	d9
	41	2.7	32 ✓		e9	~~*~~9	e9
	42	1.3	16 ✓		e a10	e a9	a10
	43	1.6	19 ✓		b8	b6	b7
	44	2.0	24 ✓		a8	a7	a7
	45	1.4	17 ✓		c9	d9	c9
	V						

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46	1.8	22	b8	b7	b 7	
47	2.0	24	d10	d10	d 10	
48	1.4	17	ib10 9	ic7	ib 9	
49	1.8	22	c9	c9	c 9	
50	2.2	26	a7	a9	a 8	
51	1.6	19	c10	c8	c 9	
52	2.1	25	d8	d9	d 8	
53	1.9	23	B5	b5	b 5	
54	1.5	18	b9	c8	c 9	
55	1.9	23	c6	b7	c 6	
56	2.5	30	c7	d8	s: d 7	
57	2.2	26	a9	a9	a 9	
58	3.0:	36	b10	a10	b 10	
59	2.5	30	c10	d8	d 9	
60	2.0	24	b10	c10	b 10	

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B	61	2.2	26	c4	c5	c4	
	62	2.3	28	d8	e8	e8	
	63	1.8	22	b9	a9	b9	
	64	1.9	23	b7: 9	b10	b9	
	65	1.7	20	c10	c10	c10.	
	66	2.2	26	d9	d7	d8	
	67	2.5	30	b8	a9	a9	
	68	2.9	35	a4	a4	a4	
	69	1.8	22	c8	d8	c8	
	70	1.8	22	b10	b9	b10	
	71	2.6	31	c6	b8	b7	
	72	1.4	17	b8	c9	b9	
	73	2.0	24	b7	b8	b8	
	~~74~~	~~2.2~~	~~26 defect.~~				
	75	2.1	25	c8	c8	c8	

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76	1.7	20	e7	d 7	d 7
77	0.9	11	c9	c 9	c 9
78	3.8	46	b10	b 10	b 10
79	2.4	29	b8	a 8	b 8
80	1.6	19	a9	a 10	a 9
81	1.3	16	c10	c 9	c 10
82	2.2	26	e6	d 7	S: d 7
83	2.0	24	a10	a 9	a 10
84	2.4	28 9	c8	c 10	c 9
85	1.6	19	b9	c 9	b 9
86	1.8	22	d8	d 9	d 9
87	1.7	20	b9	a 9	a 9
88	2.4	29	c9	b 10	c 10
89	1.5	18	c8	c 9	c 9
90	2.0	24	c8	d 8	d 8

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B	91	1.5	18 ✓	c7	c10	c9	✓
	92	1.8	22 ✓	b8	c 8	b 8	
	93	1.4	17 ✓	b9	d 8 ✓	c 8	
	94	1.6	19 ✓	a8	c 7 ✓	b 7	
	95	2.1	25 ✓	a5-	c5-	b5-	✓
	96	1.0	12 ✓	c9 ✓	b 8 ✓	b 8	
	97	1.9	23 ✓	b7	b 9	b 8	
	98	2.1	25 ✓	a6	a 6	a 6	
	99	1.4	17 ✓	a7	a 7	a 7	
	100	1.7	20 ✓	c5 8	a 9	b7	
	101	1.8	22 ✓	b10 ✓	c 10	b 10	
	102	1.3	16 ✓	c8	c 8	c 8	
	103	1.8	22 ✓	d8 1e	d e 7 ✓ 1e	d e 7	
	104	1.6	19 ✓	b6	b 7 ✓	b 6	
	105	2.2	26 ✓	c7	c 8 ✓	c 7	

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106	2.0	24	a 7	a 8	a 8
107	1.2	14	b 10	b 10	b 10
108	1.3	16	c 9	c 8	c 9
109	1.6	19	b 10	b 10	b 10
110	1.9	23	d 10	d 9	d 10
111	2.1	25	b 7	b 9	b 8
112	2.2	26	a 8	a 8	a 8
113	1.5	18	b 9	b 7	b 8
114	2.3	28	c 10	c 10	c 10
115	1.8	22	c 7	c 6	c 7
116	2.0	24	c 9	b 9	b 9
117	2.0	24	b 9	c 9	b 9
118	2.4	29	e 10	e 10	e 10
119	1.4	17	b 7	a 8	a 8
120	3.0	36	c 8	c 8	c 8

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B 121	1.4	17	dq	c10	d 9	
122	1.3	16	aq	b10	b 10	
123	1.5	18	b10	c 10	b 10	
124	2.7	32	e8	d 8	d 8	
125	2.4	29	d7	d 7	d 7	
126	2.0	24	b8	b 8	b 8	
127	2.2	26	b8	b 8	b 8	
128	1.3	16	c10	d 10	c 10	
129	2.1	25	c6	c 6	ic6	
130	1.7	20	b8	b 10	b 9	
131	1.8	22	b8	b 8	b 8	
132	2.4	29	c9	c 8	S:c 9	
133	2.6	31	b9	b 9	b 9	
134	1.3	16	a8	b 8	b 8	
135	2.9	35	b10	b 10	b 10	

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136	2.3	28	c10	c10	c10
137	2.7	32	b5	a7	b6
138	2.4	29	a9	b8	b8
139	1.3	16	c10	d10	c10
140	2.6	31	b5	b5	S:b5
141	1.8	22	b10	c10	c10
142	1.7	20	c8	c9	c9
143	2.6	31	c4	b5	S:c4
144	2.4	29	b9	d10	c9
145	1.8	22	c8	a7	b8
146	3.5	42	b7	c9	c8
147	2.4	29	b6	b6	b6
148	2.1	25	b7	b8	b7
149	2.8	34	b5	c5	S:b5
150	1.6	19	b6	b8	b7

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1927phae.proj.2316A

B 151	1.6	19 ✓		a 9	a 10 ✓	a 8
152	1.7	20 ✓		c 10	c 10	d 10
star and nebula: 153	1.5	18 ✓		✓a 6	b 7 ✓	b 6
154	1.4	17 ✓		a 9	a 9	a 9
155	2.6	31 ✓		b 10	b 8	b 9
156	1.5	18 ✓		✓b 9:	c 10 ✓	b 9
157	2.1	25 ✓		d 9	d 9	d 9
158	1.3	16 ✓		c 8	c 8	c 8
159	1.6	19 ✓		b 9	b 9	b 9
160	1.2	14 ✓		b 8	b 9 ✓	b 8
+61		~~scratch on ft star.~~		c 7		
162	1.8	22 ✓		c 10	c 10	c 10
163	1.0	12 ✓		✓b 7	c 9	c 8
164	2.0	24 ✓		✓a 6	b 8	a 7
165	1.8	22 ✓		c 10	c 10	c 10

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1927phae.proj.2316A

166	1.7	20 ✓	c8	c7 ✓	c7	
167	3.3	40 ✓	✓b9	c8 ✓	c8	
168	2.0	24 ✓	✓c6	b6	c6	
169	2.3	28 ✓	c4	c4	S:c4	
170	2.1	25 ✓	b6	b8	b7	
171	1.5	18 ✓	a8	a8	a8	✓
172	1.7	20 ✓	d9	d9	d9	
173	2.3	28 ✓	✓b9	c9	c9	
174	3.4	41 ✓	✓a8:	b7 ✓	S:a7	
175	2.8	34 ✓	✓d9	c9	c9	
176	2.3	28 ✓	b7	b8 ✓	b8	
177	2.7	32 ✓	a4	a4	S:a4	
178	1.5	18 ✓	c9	c7	c8	
179	1.3	16 ✓	b10	b8	b9	
180	1.2	14 ✓	b9	c10 ✓	b9	

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1927phae.proj - 2316A

B	181	2.2	26	c7	d8	d8
	182	2.1	25	c10	c9	c9
	183	1.9	23	f10:	b9	b10:
	184	1.0	12	ic9	ic10	ic9
	185	1.5	18	d9	c8	d9
~~G 186~~			~~scratch on top of star~~			
	187	2.1	25	c8	c7	c8
	188	1.3	16	a9	a8	a9
	189	2.2	26	a6	b7	b6
	190	1.6	19	a6	b6	a6
	191	1.1	13	d7	c8	c7
	192	1.3	16	c7	d8	c8
	193	1.5	18	f8	c8	c8
	194	2.3	28	a9	a10	a9
	195	1.8	22	~~f8~~ f6	a6	b6

continued on pg. 158

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1927phae.proj.2316A

140

6720

C.

1	2.5	30	B9	C10	C10
2	2.7	32	C10	d9	C9
3	2.6	31	C8	C9	C8
4	1.9	~~23~~ 24	b8	b10	b9
5	2.1	25	b7	C7	C7
6	1.6	19	b8:	b10	b9
7	1.4	17	C10	C10	C10
8	1.6	19	C7	b7	C7
9	2.0	24	a10	a10	a10
10	2.3	28	b8	C9	C9
11	2.5	30	b9	b9	b9
12	2.1	25	b8	b7	b8
13	1.3	16	d10	d10	d10
14	2.3	28	b10	C10	f10
15	1.6	19	C9	a9	f9

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C.

16	3.2	38 ✓	✓a 10:	b 8	b 9
17	2.4	29 ✓	✓a 9	b 8 ✓	a 9
scratch? 18	1.8	22 ✓	a 8	a 8	a 8
19	1.7	20 ✓	b 9	b 10 ✓	b 10
20	2.2	26 ✓	c 10	c 10	c 10
21	2.4	29 ✓	✓b 10	c 8	c 9
22	2.0	24 ✓	✓a 8	b 9 ✓	a 9
23	1.1	13 ✓	b 7	b 7	b 7
24	2.1	25 ✓	✓c 10	b 9 ✓	b 10
25	1.9	23 ✓	i b 5	i b 6 ✓	i b 5
26	1.8	22 ✓	a 8	a 8	a 8
27	1.5	18 ✓	✓e 10	d 10	e 10
28	1.8	22 ✓	b 8	b 8	b 8
29	2.8	34 ✓	✓c 7	b 7	b 7
30	1.4	17 ✓	✓c 10	b 10	c 10

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31	2.4	29	c5	ic7	icb
32	2.1	25	b6	b7	b6
33	1.5	18	c9	c10	c9
34	1.4	17	a8	a8	a8
35	2.2	26	d8	c7	c8
36	1.7	20	b10	b8	b9
37	1.5	18	ic8	c7	ic7
38	1.5	18	d9	c10	d10
39	2.1	25	b6	b8	b7
40	1.3	16	b9	b9	b9
41	1.2	14	b7	a8	a7
42	1.8	22	c9	c9	c9
43	1.9	16	b8	c8	b8
44	3.5	42	ie5	ie5	ie5
45	2.0	24	a7	b7	b7

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C	46	1.9	23 ✓	a8	a9 ✓	a8
	47	2.3	28 ✓	c9	c9	c9
	48	1.7	20 ✓	✓b8	a7 ✓	b7
	49	2.1	25 ✓	✓c8	b10	b9
	50	2.5	30 ✓	c10	c10	c10
	51	1.6	19 ✓	~~b~~ :8 ✓a	b10	a9
	52	1.3	16 ✓	✓b10	a9 ✓	a10
	53	1.9	23 ✓	c7	c8 ✓	c7
	54	1.2	14 ✓	b8	b8	b8
	55	1.8	22 ✓	c7	c9	c8
	56	2.0	24 ✓	✓b9	c10 ✓	b10
	57	1.7	20 ✓	✓c9	d10 ✓	d9
	58	1.4	17 ✓	✓a9	b8 ✓	a8
	59	1.9	23 ✓	✓b10	c9 ✓	c9
	60	1.3	16 ✓	a6	a6	a6

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C	61	1.8	22	b 10	b 9	b 10
	62	2.2	26	c 9	c 8	c 9
	63	2.0	24	a 9	b 10	a 10
	64	2.7	32	b 7	b 7	S: b 7
	65	1.9	23	b 9	c 9	c 9
	66	2.5::	30::	b 10	a 10	b 10
	67	1.9	23	c 9 8	b 6	b 8
	68	1.8	22	a 10	a 9	a 9
	69	2.2	26	b 9	b 9	b 9
	70	1.9	23	b 6	b 7	b 6
	71	2.3	28	b 5	c 4	b 5
	72	2.8	34	b 8	b 8	b 8
	73	2.2	26	e 8	c 8	d 8
	74	1.9	23	a 9	a 9	a 9
	75	3.0:	36	a 9	a: 7	a: 8

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C	76	1.4	17 ✓		✓ b10	c10	c 10
	77	1.9	23 ✓		b6	b6	b6
	~~78~~		defect		~~a10~~		
	79	1.2	14 ✓		b10 7	b7	b7
	80	1.6	19 ✓		c9	c7	c8
	81	2.5	30 ✓		a6	a6	a6
	82	2.2	26 ✓		b9	b10 ✓	b10
	83	1.8	22 ✓		d8	d8	d8
	84	1.9	23 ✓		✓ b8	c8	f8
	85	2.1	25 ✓		✓ c7	d7	d7
	86	3.3	40 ✓		✓ b7	c8 ✓	b7
	87	2.6	31 ✓		a10	a9 ✓	a10
	88	2.1	25 ✓		✓ b9	c9	c9
	89	2.4	29 ✓		✓ c9	d10 ✓	c9
	90	2.3	28 ✓		b10	b9 ✓	b10

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C	91	2.7	32		B9	b 8	b 9
	92 =	1.9	23		a 10	a 9	a 10
	93	3.0	36		f 10	a 8	a 9
	94	2.4	29		c 10	b 10	c 10
	95	2.0	24		c 10	b 10	f 10
almost stellar	96	2.2	26		f 9	c 9	f 9
	97	2.8	34		i d 7	d 9	d 8
	98	4.0	48		a 10	b 10	f 10
	99 =	2.3	28		a 9	b 10	a 9
	100	1.8	22		f 9	b 7	b 8
	101	1.3	16		c 8	d 7	d 8
	102	1.5	18		c 9	b 8	c 9
	103	2.0	24		a 6	a 7	a 6
	104	2.2	26		a 4	f 5	f 5
	105	1.9	23		c 8	c 10	c 9
	106	1.9	23		c 9	c 9	c 9
	107	1.7	20		a 9	a 9	a 9
	108	2.7	32		f 4	c 4	s: f 4

Just on A6718

found

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1927phae.proj.-2316A

L. Catalogue. Cinder

✓	794	3.6	3.8	3.7	44	d7	d8✓	d8 ✓
✓	809	4.0	3.7	3.8	46	d10	d9✓	d9 ✓
✓	810	9.2	9.7	9.4	113	d5	d4✓	d4 ✓
	3233	4.0	3.8	3.9	47:	~~a9:~~	~~a9:~~	~~a~~
	3235	4.4 2.9	3.0	3.4	41:		~~a9:~~	
	3236	5.0	4.0	4.5	54:			
	3238	4.3	4.3	4.3	52:			
	3239	4.0 5.2	5.6	4.9	59:			
Too near edge of plate:	3240	3.4	3.6	3.5	42:			
	3244	4.2	4.3	4.2	50:			
	3255	4.0	4.4	4.2	50:			
✓	3258	7.0	7.0	7.0	84	c9	c10✓	c9 ✓
✓	3261	6.8 5.1	3.2	5.0	60	b7	a7	b7 ✓
✓	3275	2.9	2.2	2.5	30	b10	b10	b10 ✓ corner
✓	3280	5.0	4.3	4.6	55	b9	b9	b9 ✓

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D.C.

✓	3284	3.1	3.4	3.2	38	✓c9	f9	f9 ✓
✓	3291	3.7 3.4	2.2	3.1	37	c10	c9 ✓	c10 ✓
✓	3301	3.2	3.4	3.3	40	f9	f10 ✓	f9 ✓
✓	3303 *	3.3	3.2	3.2	38	✓d7	c7	d7 ✓
✓	3311	6.4	6.9	6.6	79	f2	f2	f2 ✓
✓	3315	4.0	3.1	3.6	43	f10	f10	f10 ✓
✓	3328	4.0	3.3	3.6	43	c10	c10	c10 ✓
✓	3321	3.8	3.2	3.5	42	d5	d6 ✓	d6 ✓
✓	3344	4.7	5.2	5.0	60	✓β7	c7	c7 ✓
✓	3346	2.6	2.3	2.4	29	✓a10	f10	a10 ✓
✓	3347	2.5	2.2	2.4	29	✓β8	a7 ✓	a7 ✓
✓	3349	5.4	5.8	5.6	67	c10	c10	c10 ✓
✓	3355	7.3 6.2	5.6	6.4	77	✓a6	f5 ✓	a6 ✓
✓	3356	4.0	3.4	3.7	44	✓β8	a9 ✓	a9 ✓
✓	3357	2.7	3.2	3.0	36	c9	a8 ✓	f8 ✓
✓	?* 3305	7.2	8.1	7.6	91	c2	c2	c2 ✓

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1927phae.proj.2316A

I.C.

✓	3358	6.0 7.5	3.6	5.7	68	c9	c9	c9 ✓
✓	3361	3.3	3.2	3.2	38	b10	f10	f10 ✓
✓	3363	6.5	7.4	7.0	84	✓ c8	f8	c8 ✓
✓	71	8.7	8.2	8.4	101	b1	f1. s: f1 h. st. s. f.	✓
✓	74	5.0	4.6	4.8	58	✓ b9	a8 ✓	a9 ✓
✓	81	6.0	6.0	6.0	72	c7	c7	c7 ✓
✓	82	4.6	4.8	4.7	56	a5	a3	a4 ✓
✓	83	4.8 3.4	3.0	3.8	46	✓ b9	c9	f9 ✓
✓	86	6.0	5.3	5.6	67	a6	a6	a6 ✓
✓	88	4.2	3.2	3.7	44	c6	c6	c6 ✓
✓	93	5.7	6.1	5.9	71	d4	d5 ✓	d4 ✓
✓	98	3.0	3.1	3.0	36	a9	a8 ✓	a9 ✓
✓	3412	4.6 3.3	3.4	3.8	46	✓ b6	c7 ✓	c6 ✓
✓	13	4.0	4.7	4.4	53	✓ e10	d9.	e9 ✓
✓	16	6.0	6.0	6.0	72	✓ b5	a5	a5 ✓

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150 3422?	3.5	4.1	3.8	46	b 9	c 9	c 9 ✓
	1	2	mean				
ℓ C							
✓ 3418	7.0:	6.4	6.7	80	✓ b 8:	a 7:✓	b 8: ✓
star superposed.							
✓ 425	3.0	3.8	3.4	41	d 6	d 5 ✓	d 5 ✓
✓ 427	7.0	7.4	7.2	86	d 7	d 7	d 7 ✓
✓ 431	3.0	2.0	2.5	30	✓ b 9	c 9	c 9 ✓
✓ 432	4.3	3.4	3.8	46	✓ a 6	f 5 ✓	a 6 ✓
✓ 437	3.9	3.1	3.5	42	✓ e 6	d 7 ✓	d 7 ✓
✓ 440	3.6	2.9	3.2	38	✓ a 9	f 8 ✓	a 8 ✓
✓ 442	6.0	5.4	5.7	68	c 10	c 8	c 9 ✓
✓ 443	3.2	2.3	2.8	34	✓ d 8	e 8 ✓	e 8 ✓
✓ 445	1.9	2.0	2.0	24	c 10	c 10	c 10 ✓
✓ 446	3.9	3.0	3.4	41	b 9	f 9	f 9 ✓
✓ 447	3.0	2.7	2.8	34	b 8	f 8	f 8 ✓
✓ 457	4.0	4.6	4.3	52	✓ c 7	d 9	c 8 ✓
✓ 459	4.1 6.8	5.2	5.4	65	✓ b 9	c 8 ✓	c 9 ✓
✓ 461	3.7	2.9	3.3	40	e 8	e 10	e 9 ✓

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6720

d.C.

✓	3465	2.0	1.3	1.6	19	d8	d8	d8 ✓
✓	66	3.5	3.2	3.4	41	✓c9	d8	c8 ✓
✓	67	4.3	3.7	4.0	48	b2	c2	S: c2 ✓
✓	68	4.4 5.0	3,0	4.1	49	d10	d10	d10 ✓
✓	70	3.6 3.7	2,3	3.2	38	c10	c10	c10 ✓
✓	75	6.0:	7.0:	6.5:	78	B10	b9 ✓	b9 ✓
✓	76	7.0	8.0	7.5	90	ic8	ic8	ic8 ✓
✓	78	4.3	3.7	4.0	48	c8	c9 ✓	c8 ✓
✓	81	2.6	2.0	2.3	28	d9	d9	d9 ✓
✓	83	3.2	3.2	3.2	38	✓b8	c8	b8 ✓
✓	86	3.0	3.2	3.1	37	b9	b9	b9 ✓
✓	87	4.0	3.4	3.7	44	c8	c9 ✓	c9 ✓
✓	89	2.9	2.6	2.8	34	d10	d9 ✓	d10 ✓
✓	90	4.4 3.3	2,8	3.5	42	✓c6	b7 ✓	b7 ✓
✓	92	1.8	2.0	1.9	23	b8	d7 ✓	c8 ✓

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Q. C.

✓	3499	6.7	7.0	6.8	82	✓ f 3	e 3	s: f 3	✓
✓	3500	4.0	3.4	3.7	44	✓ c 8	f 8	f 3	✓
✓	01	2.7	3.0	2.8	34	d 9	d 9	d 9	✓
✓	06	2.3	2.4	2.4	29	B 8	b 9 ✓	b 9	✓
✓	09	3.2 2.5	1.9	2.5	30	d 9	d 9	d 9	✓
✓	10	3.9 2.3	2.7	3.0	36	✓ b 10	c 10	b 10	✓
✓	18	6.7	7.6	7.2	86	✓ c 6	b 6	b 6	✓
✓	20	3.0	2.3	2.6	31	B 9	b 10 ✓	b 10	✓
✓	23	3.0	2.5	2.8	34	✓ b 7	a 7	b 7	✓
✓	25	3.5	3.7	3.6	43	✓ c 9	b 10 ✓	b 9	✓
✓	40	2.4 2.4	5.3	3.4	41	✓ b 8	c 8	b 8	✓
✓	42	2.0	2.6	2.3	28	e 9	c 9	d 9	✓
✓	48	2.3 3.0	3.4	2.9	35	b 10	b 10	b 10	✓
✓	58	2.3	2.3	2.3	28	i b 9	i b 10 ✓	i b 10	✓
✓	62	3.0	3.1	3.0	36	B 3	b 5	b 4	✓

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1927phae.proj.2316A

I.C.

(3566 comet, Frost. b 0.5)

✓	35 67	4.0	3.8	3.9	47	c10	c10	c10 ✓	
✓	73	1.6	2.1	1.8	22	b9	f8 ✓	f9 ✓	
✓	74	2.0	2.0	2.0	24	c9	c8 ✓	c8 ✓	
✓	75	2.5 4.5	5.0:	4.0	48	a10	a8	a9 ✓	vague
✓	78	4.0 6.0	5.3	5.1	61	✓b6	S:c6	S:c6 ✓	
✓	83	7.9	7.3	7.6	91	✓b5	a4 ✓	b5 ✓	
star superposed following.									
✓	86	2.7	2.3	2.5	30	✓c10	f10	f10 ✓	
✓	3602	4.0	3.7	3.8	46	✓b7	c6 ✓	f6 ✓	
✓	04	3.2	2.8	3.0	36	✓c8	f8	f8 ✓	
✓	06	2.0	1.2	1.6	19	b8	f8	f8 ✓	
✓	07	3.0	3.0	3.0	36	✓a6	f6	a6 ✓	
✓	08	3.2 4.0	5.0	4.1	49	c5 1	c1	S:c1 ✓	?
✓	09	2.8	2.5	2.6	31	b10	f9 ✓	f9 ✓	
✓	11	4.3	4.2	4.2	50	c7	c7	c7 ✓	

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✓	3612	3.4	3.0	3.2	38		c5	c5	S:c5 ✓
✓	13	2.3	2.0	2.2	26		b10	f8	f9 ✓
✓	24	2.4	3.0	2.7	32		B6	c6	c6 ✓
✓	25	1.7	2.1	1.9	23		c8	c6	c7 ✓
✓	29	4.1	4.2	4.2	50		c4	c4	S:c4 ✓
✓	31	4.6	4.5	4.6	55		e6	e6	e6 ✓
✓	33	2.1	2.0	2.0	24		a10	a9 ✓	a10 ✓
✓	34	3.3 3.5	2.0	2.9	35		b10	f10	f10 ✓
✓	35	3.9	3.4	3.6	43		c9	f8 ✓	c9 ✓
✓	37	4.8	5.6	5.3	64		c8	c8	c8 ✓
✓	38	3.0	3.1	3.0	36		b9	d9	c9 ✓
✓	43	2.6	2.7	2.6	31		B6	a7	a6 ✓
✓	47	6.8 6.5	5.7:	6.3	76		B8	f7 ✓	f7 ✓
✓	53	2.0	2.2	2.1	25		d10	d10	d10 ✓
✓	58	4.3	4.1	4.2	50		B5	c6 ✓	if6 ✓
✓	3652	3.7	5.5	4.7	56 ✓		d10	d10	d10 ✓

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	I.C.								
✓	3663	3.0 7.0	6.3	5.4	65	✓c7	f7	f7	✓
✓	65	3.0	3.5	3.2	38	✓c7	f8:	c7	✓
✓	70	2.8 2.0	1.7	2.2	26	c10	c8	c9	✓
✓	84	4.0 4.0	2.8	3.6	43	β7	f7	f7	✓
✓	86	4.4	4.4	4.4	53	c6	c6	c6	✓
✓	90.	2.6	2.3	2.4	29	f6 8	f9	f8	✓
✓	93	2.5.	3.0.	2.8.	34	✓β8	a8	a8	✓
✓	94	2.4	2.8	2.6	31	d8	d9-	d8	✓
✓	98	3.1	2.5	2.8	34	✓d8	c10	d9	✓
✓	3701 3	2.4	3.0	2.7	32	a10	a9✓	a9	✓
✓	02	2.4	2.3	2.4	29	β8	f7✓	f8	✓
✓	04	7.3	6.9	7.1	85	c3	c2✓	s:c3	✓
✓	10	5.0	5.0	5.0	60	a10	a8:	a9	✓
✓	11	3.0	3.5:	3.2	38	β9	f10✓	f10	✓
✓	14	3.1	3.1	3.1	37	✓β8	c9✓	c9	✓

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✓	3718	7.5	8.5	8.0	96	c4	c5 S:C 4		✓
✓	20	6.0;	5.0	5.5	66	B8	a10	f 9	✓
✓	24	2.9	3.3	3.1	37	a9	b10	f 9	✓
✓	27	5.0	5.3	5.2	62	c10	c8	c9	✓
✓	31	1.8	1.9	1.8	22	c10	d9	c10	✓
✓	32	2.3	2.0	2.2	26	B9	b7	f8	✓
✓	35	4.0	3.7	3.8	46	c7	d8	d7	✓
✓	42	9.8 8.4	8.0	8.7	104	B5	f4	f4	✓
✓	56	2.2	2.1	2.2	26	d7	f9	c8	✓
	IC 815								
	~~60~~	2.5	2.2	2.4	29	c8	c9	c9	✓
	3760	2.3	1.8	2.0	24	d8	c8	c8	
✓	67	3.0	2.8	2.9	35	B5	a6	f6	✓
✓	73	4.0	3.7	3.8	46	c9	c9	c9	✓
✓	75	2.3	1.9	2.1	25	B10	f10	f10	✓
✓	79	3.8	3.6	3.7	44	d9	d8	d9	✓
	IC 817								
✓	~~3769~~	3.0	3.6	3.3	40:	c9	c9	c9:	✓
	816	3.5	3.1	3.3	40:			c9:	
✓	3803	4.0	4.7	4.4	53	a8	b9	f8	✓

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Section A, continued from pg. 126.

A	61	1.8	22		c10	a9	b9
	62	2.7	32		b8	b9	b8
	63	2.3	28		c9	c10	c9
	64	2.1	25		a6	c7	b6
	65	2.0	24		b7	b7	b7
	66	1.9	23		a7	a8	a7
	67	1.4	17		b10	a9	b10
	68	3.3	40		c8	b8	b8
	69	1.8	22		c10	c10	c10
	70	2.1	25		a8	a8	a8
	71	1.6	19		c7	d9	c8
	72	1.0	12		d8	d8	d8
	73	1.2	14		c8	c8	c8
	74	2.7	32		b9	b9	b9
	75	3.5	42		c9	c8	c8
	76	3.9	47		b10	c10	b10
	77	2.3	28		a8	b7	b7
	78	3.2	38		c9	c9	c9

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Section B. continued from pg. 139

196	1.3	16		f 9 d	e 8	d 8
197	1.3	16	pair with 198	f 9	c 10	c 9
198	1.1	13	pair with 197	c 9	b 10	c 10
199	0.9	11		a 8	c 10	b 9
200	1.2	14		d 7	c 9	c 8
201	1.4	17		a 8	a 9	a 9
202	1.2	14		f 10	f 8	f 9
203	1.8	22		a 6	a 4	5: a 5
204	1.5	18		c 10	c 8	c 9
205	1.9	23		d 8	f 8	c 8

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6720.

N.G.C.	1	2	Mean.					
✓ 4313	16.3	16.0	16.2	192	c 3	c2✓	c 3	✓
✓ 4320	3.1	3.2	3.2	38	✓c9	f9	c 9	✓
✓ 25	3.0	3.6	3.3	40	b8	f8	f8	✓
✓ 4330	18.0	17.5	17.8	214	a1	a1	s: a1	✓
✓ 51	9.3	11.0	10.2	122.	c8	c8	c8	✓
✓ 52	8.5	7.8	8.2	98	d7	d6✓	d6	
✓ 71	9.0	8.3	8.6	103	e6	e6	s: e6	✓
✓ 74	15.0	15.0	15.0	180	d10	d10	d10	✓
✓ 77	4.0:	4.0	4.0	48	f9	c9	c9	✓
distorted at edge.								
✓ 80	16.5	17.5	17.0	204	e8	e7✓	s: e7	✓
✓ 87	7.3	7.0	7.2	86	d6	d7✓	d6	✓
✓ 88	28.0 26.0	24.0	26.0	312	sc2	sc3✓	sc3	✓
✓ 4390	8.0	7.0	7.5	92	b8	f8	s: f8	✓
✓ 4402	16.0	17.7	16.8	202	s: b3	s: f3	s: f3	✓
✓ 06	20.0: 18.0	17.5:	18.5	222	e9	e9	e9	✓
✓ 17	11.6 14.0	13.7	13.3	160	d3	d2✓	d2	
✓ 4413	8.0	8.0	8.0	96	✓e8	f7✓	s: f7	

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✓	4424 4425	13.0	12.8	12.9 14.0	155 168	c6	c6	c6 c4	✓
✓	29	18.7	17.8	18.2	218	e4	e4	s:e4	✓
✓	31	7.3	7.0	7.2	86 ~~206~~	c8	c6	c7	✓
✓	35	9.0	8.5	8.8	106	c7	c6✓	c6	✓
✓	36	5.8	6.1	6.0	72	✓c4	f5✓	c5	✓
✓	38	27.5	27.5:	27.5	330	sd3	s:d4✓	s:d4	✓
✓	40	8.0	9.0	8.5	102	✓se8	sd8	sd8	✓
✓	42	16.0	15.0	15.5	186	✓d6	e6	d6	✓
✓	45	17.3 18.0	11.5	15.6	187	b2	f2	s:f2	✓
(same object) ✓	46 47	6.2	4.3	5.2	62	✓c9	f8✓	f8	✓
✓	52	7.0	8.3	7.6	93	b2	f2	s:f2	✓
✓	58	5.5	6.2	5.8	70	d9	d10✓	d9	✓
✓	59	11.5 11.5	15.0	12.7	152	d10	d8	d9	✓
✓	4461	13.2 17.0	17.0	15.7	188	*~~d~~e4 d4	e4	e4	✓

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N.G.C.							
✓ 4468	3.7	4.0	3.8	46	c9	c8 ✓	c8 ✓
✓ 73	16.5-	15.0	15.8	190	d3	d5-	d4 ✓
✓ 74	9.3	8.9	9.1	109	✓d2	e3 ✓	d3 ✓
✓ 76	6.6	5.0	5.8	70	✓d8	c8	c8 ✓
✓ 77	12.0	12.5	12.2	146	d5	f7	e6 ✓
✓ 78	6.0	5.9	6.0	72	d8	d8	d8 ✓
							star sup. n.
✓ 79	7.0	6.0	6.5	78	c4	c5- ✓	c4 ✓
✓ 82	6.7	6.0	6.4	77	c5	c5	c5
✓ 86	16.0	17.5-	16.8	202	d10	d10	d10
✓ 91	7.0	6.8	6.9	83	c6	c6	5:c6
✓ 4497	7.3	7.0	7.2	86	✓c4	f4	c4
✓ 4501	30.0	31.7	30.8	370	se5	se5 ✓	se5
✓ 03	8.0	9.5	8.8	106	e4	e5 ✓	e5
✓ 06	6.0	5.4	5.7	68	✓c8	f8	f8
✓ 16	6.8	6.5	6.6	79	✓c6	f6	c6
✓ 4526	4.6	4.9	4.8	58	e7	c7	d7

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✓	4531	8.5	9.0	8.8	106	c9	c7 S:c8	✓
✓	548	12.4 22.5	19.0	18.0	216	se9	se9	se9
✓	550	9.6 13.5	12.0	11.7	140	d3	d3	d3
✓	551	6.0	4.7	5.4	65	d7	c6 ✓	d6
✓	552	9.2 13.0	12.0	11.3	136	e10	d10	d10
✓	564	11.5	11.5	11.5	138	e2	e3 ✓	e3
✓	567	10.0 12.0	14.0	12.0	144	se7	se7	se7
✓	568	17.5	18.0	17.8	214	sc5	sc5	sc5
✓	569	22.0 32.5	28.0	27.3	328	sf6	sf5 ✓	sf6
✓	571	15.3	15.0	15.2	182	S:c9	S:c8 ✓	S:c9
✓	578	4.0	6.0	5.0	60	d7	d8 ✓	d8
✓	579	17.5	18.5	18.0	216	se8	se9 ✓	se9
✓	584	5.2	5.3	5.2	62	d7	c8 ✓	d8
✓	4596	10.2 14.0	13.0	12.4	149	d4	d4	S:d4
✓	4606	9.0	8.0	8.5	102	c5	c5	S:c5 ✓ star rep. S.P.

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1927phae.proj - 2316A

N.G.C.							
✓ 4607	12.6 18.0	15.0	15.2	182		ib2	ib2	ib2
68	10.5	10.0	10.2	122	?	d5	d5	d5 very outside?
✓ 11	5.4	5.6	5.5	66		c3	f2	f3
✓ 20	7.0	5.0:	6.0	72		e9	e9	e9
✓ 21	14.2	12.5	13.4	161		d7	d5	d6
✓ 33	10.2	10.3	10.2	122		a5	f5	a5
✓ 34	14.7	13.6	14.2	170		b2	a2	a2
✓ 38	6.6	7.3	7.0	84		c4	c4	c4
✓ 39	7.4 9.5	12.0	9.6	115		e8	e7	S:e8
✓ 40	4.0 4.0	6.7	4.9	59		b8	f8	f8
✓ 41	3.2	2.1	2.6	31		c9	c8	c9
✓ 47	12.0	13.0	12.5	150		sd9	sc9	sc9
✓ 49	17.0 22.0	20.0	19.7	236		e8	e8	e8
✓ 54	23.0	25.0	24.0	288		sc8	sc6	sc7
✓ 4659	7.5	7.2	7.4	89		d7	f7	e7

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N.G.C.							
✓ 4660	7.5	6.7	7.1	85	C6	C6	C6
✓ 4689	14.0	13.0	13.5	162	C9	C9	S:C9
✓ 4694	9.3	8.5	8.9	107	C6	C6	C6

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NGC	Diameter			13810		Concentration + Form	
4180	8.0	7.7	7.8	94	c5	c5	c5 ✓
91	3.7	5.0	4.4	53	c8	d8	c8 ✓
97	17.0 16.3	14.5	16.6	199	b1	c1	s:c1 ✓
4207	7.8	8.0	7.9	95	b5	c5	f5 ✓
15	7.3 9.8	10.5	9.2	110	e3	f3	f3 ✓
24	11.5	11.0	11.2	134	sd5	se5	sd5 ✓
33	9.5	8.0	8.8	106	f4	f4	f4 ✓
35	22.5 19.0	20.0	20.5	246 ?	d2	e2	e2 ✓
41	8.0:	8.6	8.3	100	d5	d5	d5 ✓
46	12.0 17.0	17.5	15.5	186	sb7	sc7	sf7 ✓
47	2.9	2.8	2.8	34	c10	d10	d10 ✓
49	2.5	2.6	2.6	31	d8	d7	d8 ✓
52	7.2	8.3	7.8	94	b2	f2	s:f2 ✓
55	6.0	6.3	6.2	74	d6	d6	d6 ✓
57	5.0	5.7	5.4	65 ?	c3	c4	c3 ✓

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1927phae.proj.2316A

42 59	4.0	4.4	4.2	50	d5	d6	d6	
60	11.0 13.0	15.0	13.0	156	se7	se6	se7	
61	13.0	13.5	13.2	158	d10	d9	d10	
64	2.7	3.3	3.0	36	c7	d7	c7	
68	6.5	7.5	7.0	84	e5	e5	e5	
70	7.5	9.0	8.2	98	e4	e4	e4	
73	10.0	10.4	10.2	122	sd8	sd7	sd7	
76	6.5	8.0	7.2	86	se8	se8	se8	
77	4.3	4.0	4.2	50	c9	c9	c9	
81	12.5	11.1	11.8	142	d5	d5	d5	
82	4.6	4.6	4.6	55	b6	c6	c6	
42 87	6.7	4.0	5.4	65	c5	c5	c5	
92	8.0	7.0	7.5	90	d8	d7	d8	
96	3.0	4.0	3.5	42	b9	b9	b9	
143 00	6.9	8.0	8.4	101	c4	d4	sc4	
01	6.0	6.1	6.0	72	b5	c4	sc5	
4269	3.8	4.0	3.9	47	d6	d6	d6	

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1927phae..proj..231G

* 4353	5.0	4.9	5.0	60	13810	if6	if6	if6
NGC.								
4303	30.0	32.0	31.0	372		sd10	sd10	sd10
07	16.3	17.0	16.6	199		c2	f2	S:c2
09	7.6 8.1	11.5	9.1	109		e6	e5	S:e6
16	11.4 14.6	16.5	14.2	170		c1	c1	S:c1
18	3.0	4.6	3.8	46		d8	c9	c9
24	9.1	10.0	9.6	115		e6	e6	e6
26	5.0: 6.0:	2.0	4.3:	52		f9	f9	f9
33	2.4	3.4	2.9	35		d6	c7	c6
34	11.5	12.7	12.1	145		f4	f3	S:f3
39	7.5 6.0:	9.0	7.5	90		e10	d10	e10
4341	13.4	13.6	13.5	162		S:f3	S:f3	S:f3
43	8.2	7.4	7.8	94		e2	e2	e2
* 4342	4.6	5.0	4.8	58		f6	f6	f6
56	13.2	14.1	13.6	163		f1	f1	S:f1
4360	4.0	4.0	4.0	48				
65 *	20.0	19.0	19.5	234		e8	e8	e8
70	6.7	7.6	7.2	86		c7	ic7	ic7
76	7.2	6.1	6.6	79		ic8	ic8	ic8
* 4366	3.6	2.7	3.2	38		c7	c8	c8

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		Right ascen						faint ring at 1.5 dist from centre of nucleus.	
✓	4378	~~16.5~~ 17.0	17.5	17.2	206	d10	d8	d9	✓
✓	4410	3.0	2.3	2.6	31	b8	f8	f8	✓
✓	double	4.8	4.1	4.4	53	c7	c7	c7	✓
✓	11	11.0 11.0	8.0	10.0	120	a9	a9	S: a7	✓
✓	15	3.1	4.2	3.6	43	c10	c9	c9	✓
✓	16	7.5	7.5	7.5	90	d9	e9	(2e9)	✓
✓	17	15.1	14.3	14.7	176	e4	e4	e4	✓
✓	23	13.4	14.0	13.7	164	b1	f1	S: f1	✓
✓	24	14.0	16.0	15.0	180	e6	e6	S: e6	✓
✓	30	10.5 12.3	13.0	11.9	143	sd9	sd8	sd8	✓
✓	32	4.4	4.0	4.2	50	b9	d7	c8	✓
✓	34	4.3 6.3	6.7	5.8	70 ~~58~~	e10	e10	e10	✓
✓	42	17.5	16.2	16.8	202	e5	d4	e5	✓
	45 ? Identity.	13.0	13.7	13.4	161	? b2	f2	f2	✓
✓	51	4.9	5.0	5.0	60	b7	f7	f7	✓
✓	53	2.3	3.2	2.8	34	b6	c6	c6	

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1927phae..proj..2316A

NGC.							
✓4464	3.2	3.0	3.1	37	c 8	C 10	c 9 ✓
✓ 65	2.1	1.8	2.0	24	✓a 9	f 10✓	a 10 ✓
✓ 66	6.4	6.7	6.6	79	b 4	f 3✓	f 3 ✓
✓ 67	1.9	2.1	2.0	24	b 8	d 9✓	c 8 ✓
✓ 69	17.6	16.0	16.8	202	✓d 3	e 3	s:e 3 ✓
✓ 70	4.7	6.0	5.4	65	✓a 8	b 8	a 8 ✓
✓ 72	22.5	23.0	22.8	274	d 8	d 8	d 8 ✓
✓ 83	7.0	7.5	7.2	86	c 7	e 6✓	d 7 ✓
✓ 88	12.0 12.0	18.0	14.0	168	d 4	f 3✓	s:e 4 ✓
✓ 92	6.5	7.5	7.0	84	e 9	e 9	e 9 ✓
✓4518	5.0	3.6	4.3	52	✓b 7	c 8✓	c 7 ✓
✓ 19	15.0	14.2	14.6	175	sb 9	sc 8✓	sf 8 ✓
22	17.5	17.9	17.7	212	? b 3	B 3	f 3 ✓
✓ 26	33.0 32.0	27.5	30.8	370	e 3	e 2✓	e 2 ✓
✓ 32	12.5	14.2	13.4	161	b 5	b 4✓	ib 5 ✓

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✓ 45 35	33.0	31.0	32.0	384	sc 8	sc 8	sc 8	✓
✓ 43	4.0	4.4	4.2	50	c 10	c 9"	c 10	

— 13810 —

For Concentration and form the means of estimates differing by one steps were taken from alternate right and left columns for the concentration and from alternate odd and even quantities for form.

i f 9.

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13810

		Diameter Scale Reading	# jar.	Concentration (1)	Concentration (2)	+ Form. Mean.
A ✓	1	2.4	29 ✓	X 10	a 9 ✓	a 10
			(1 scale reading = 12 seconds of jar)	a		
✓	2	2.3	28 ✓	✓ b 7	a 8 .	f 7
✓	3	2.1	25 ✓	b 7	b 6 ✓	b 6
✓	4	2.6	31 ✓	a 9	a 7	a 8
✓	5	1.8	22 ✓	c 8	c 7 ✓	c 7
✓	6	1.4	17 ✓	b 7	b 9	f 8
✓	7	2.4	29 ✓	b 6	b 6	f 6 star + met ✓
✓	8	1.7	20 ✓	✓ b 10	c. 8	c 9
✓	9	1.3	16 ✓	✓ a 8	f 8	a 8
✓	10	6.1	73 ✓	e 5	e 4 ✓	e 4 S: S: e 4
✓	11	3.2	38 ✓	✓ b 7	c 9	c 8
✓	12	2.3	28 ✓	b 8	f 10	f 9
✓	13	2.1	25 ✓	c 9	c 7	c 8
✓	14	1.6	19 ✓	✓ c 8	b 6	c 7
✓	15	1.9	23 ✓	c 8	c 10	c 9

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A	✓	16	1.9.	23 ✓	✓b 8	a 6	a 7
	✓	17	1.7	20 ✓	c 7	c 8 ✓	c 7
	✓	18	5.2	62 ✓	✓b 6	c 5 ✓	f 6 s:
	✓	19	2.3	28 ✓	b 9	f 8 ✓	f 9
	✓	20	2.1	25 ✓	b 6	d 5 ✓	c 6
	✓	21	2.8	34 ✓	b 10	f 9 ✓	f 9
		22	2.2	26 ✓	c 10	c 10	c 10
		23	2.0	24 ✓	a 10	a 8	a 9
		24	3.6	43 ✓	✓b 7.	c 9	c 8
		25	2.4	29 ✓	c 7	c 8 ✓	c 8
		26	2.1	25 ✓	✓c 8	d 6	c 7
		27	2.2	26 ✓	c 9	d 9	d 9
		28	2.9	35 ✓	d 9	d 10	d 9
		29	2.3	28 ✓	✓a 8	f 9 ✓	f 8
		30	2.0	24 ✓	a 10	a 8	a 9
	✓						

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1927phae.proj.2316A

A	31	1.9	23		c 10	c 9	c 9
	32	2.7	32		b 9	a 10	b 10
	33	4.8	58		b 7	c 5	c 6
	34	2.9	35		a 9	b 8	a 9
	35	2.1	25		c 10	b 10	b 10
	36	2.4	29		b 9	d 10	c 10
	37	1.3	16		b 9	a 10	b 9
	38	1.4	17		b 8	a 8	a 8
	39	2.5	30		a 10	a 10	a 10
	40	2.0	24		ic 7	id 7	ic 7
	41	2.6	31		b 8	a 10	a 9
	42	5.7	68		b 6	b 5	b 6
	43	3.0	36		a 10	a 10	a 10
	44	1.7	20		c 10	c 9	c 9
	45	2.5:	30:		a 9	a 7	a 8

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1927phae.proj.2316A

A	46	3.3	40	b10	b10	b10	
	47	1.8	22	a8	a8	a8	
	48	2.0	24	b9	b9	b9	
	49	1.8	22	c9	c9	c9	
	50	1.9	23	a8	a7	a8	
	51	2.4	29	a9	c10	b9	
	52	6.4	~~65~~ 77	c5-	b5-	c5-	S:
	53	2.1	25	c10	c10	c10	
	54	3.6	43	a7	a7	a7	
	55	2.2	26	b8	c6	c7	
	56	2.4	29	a8	a10	a9	
	57	1.7	20	a9	a8	a8	
	58	1.5:	18:	a10/7	a7	a7	
	59	3.0	36	b10/8	b7/7	b8	
	60	2.1	25	b8	c8	b8	

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1927phae.proj.2316A

A	61	2.2	26 ✓	a6	a 7 ✓	a 7
	62	2.9	35 ✓	✓a 7	b 7	b 7
	63	1.7	20 ✓	✓b 9	a 8 ✓	b 8
	64	2.8	34 ✓	b 6	b 5	b 5
	65	2.9	35 ✓	b 6	b 8	b 7
	star s.f.					
	66	2.0	24 ✓	c 10	a 10	b 10
	67	1.8	22 ✓	b 10	b 9 ✓	b 10
	68	1.5	18 ✓	a 10	a 10	a 10
	69	1.3	16 ✓	✓c 9	d 8 ✓	d 9
	70	1.9	23 ✓	b 6	b 8	b 7
	71	2.1	25 ✓	b 10	b 8	b 9
	72	2.5	30 ✓	c 6	e 8	d 7
	73	2.3	28 ✓	✓a 9	b 8 ✓	a 8
	74	2.0	24 ✓	a 9	a 9	a 9
	~~75~~	~~1.5~~	~~18~~	Stellar ~~c 7~~	~~c 9~~	~~c 8~~

✓

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A	76	2.2	26	b 8	a 9	a 9
	77	1.8	22	d 8	b 10	c 9
	78	1.8	22	c 10	c 10	c 10
	~~79~~		defect			
	80	3.2	38	b 5	b 5	b 5
	81	3.4	41	c 6	d 5	c 6
	82	4.1	49	c 8	a 8	b 8
	83	4.3	52	c 9	c 9	c 9
	84	6.5	78	b 10	b 9	b 9
	85	2.7	32	a 9	b 10	b 10
	86	4.6	55	b 9	b 9	b 9
	87	4.0	48	b 10	c 10	b 10
	88	3.3	40	b 9	a 8	a 9
	89	2.0	24	a 7	a ~~10~~	a 7
	90	2.2	26	c 7	d 7	c 7

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1927phae.proj - 2316A

A	91	1,8	22 ✓	b 9.	b 7	B 8
	92	2.9	35 ✓	b 8	b 8	b 8
	93	2.0	24 ✓	d 10 10	b 7	c 10
	94	1.4	17 ✓	c 10	c 8	c 9
	95	1.9	23 ✓	b 8	b 7 ✓	b 8
	96	1.9	23 ✓	c 10	c 10	c 10
	97	2.8	34 ✓	d 8	d 8	d 8
	98	2.3	28 ✓	b 9	b 8 ✓	b 9
	99	5:.0:	60: ✓	a 8	a 10	a 9
	100	3.2	38 ✓	a 9	c 10 ✓	b 10
	101	2.0	24 ✓	b 9	b 10 ✓	b 9
	102	2.4	29 ✓	✓ c 7	id 7	id 7
	103	1.8	22 ✓	c 10	c 8	c 9
	104	3.1	37 ✓	b 8	B 9 ✓	b 8
	105	2.5:	30: ✓	a 6 7	a 10 6	a 7

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1927phae.proj.2316A

A	106	2.0	24	a 7	f 8	a 7	
	107	3.4	41	c 5	c 5	c 5	
	108	4.3	52	b 6	a 6	a 6	
	109	1.3	16	c 10	c 10	c 10	
	110	3.9	47	a 7	a 9	a 8	
	111	7.7	92	c 3	c 3	c 3	s:
	112	2.4	29	b 10	f 10	f 10	
	113	3.7	44	b 8	f 7	f 8	
	114	3.7	44	c 9	c 9	c 9	
	115	4.0:	48:	a 7	a 7	a 7	
	116	1.7	20	c 9	f 9	c 9	
	117	2.5	30	c 8	c 7	c 7	
	118	2.9	35	c 8	c 8	c 8	
	119	3.3	40	a 6	a 6	a 6	
	120	1.9	23	a 10	a 9	a 10	

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1927phae.proj.2316A

A 121	2.4	29	f9	c10	c9
122	2.1	25	f5	a7	f6
123	2.1	25	f7	f9	f8
124	3.2	38	f9	f9	f9
125	4.8	58	a6	a6	a6
126	3.4	41	a8	f10	f9
127	3.0	36	f9	c8	f8
128	3.2	38	f9	f9	f9
129	2.1	25	c9	c9	c9
130	2.3	28	f9	f8	f9
131	2.2	26	c9	c9	c9
132	3.2	38	c8	c8	c8
133	4.0	48	f9	c10	c10
134	2.6	31	c8	c8	c8
135	1.6	19	a5	a6	a5

(over)

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✓	136	1.8	22✓	✓C 8	d 8	c 8

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1927phae.proj.2316A

13810

		Diameter Scale reading	Diameter " of arc.	Concentration and Form. (1)	(2)	(Mean)
B	1	1.9	23 ✓	✓ f8	a 7 ✓	f 8
	2	4.6	55 ✓	✓ a 6	f 5 ✓	f 5 S:
	3	2.5:	30: ✓	a 10	a 9	a 10
	4	2.3	28 ✓	✓ f 7	c 8 ✓	f 7
	5	3.0	36 ✓	a 9	a 9	a 9
	6	1.7	20 ✓	a 9	a 9	a 9
	7	2.1	25 ✓	f 9	f 9	f 9
	8	4.0	48 ✓	c 10	c 10	c 10
	9	1.6	19 ✓	a 10	a 10	a 10
	10	2.0	24 ✓	✓ c 7	d 8 ✓	d 8
	11	2.8	34 ✓	f 7	f 7	f 7
	12	6.3	76 ✓	c 6	c 6	c 6 S:
	13	2.5	30 ✓	f 9	f 9	f 9
	~~14~~			~~a 10~~	—	
	defect?					
	15	2.6	31 ✓	c 9	c 8 ✓	c 9

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16	3.7	44 ✓		✓a6	f5 ✓	a 6
17	~~1.4~~	~~17~~		~~f8~~	——	
Two stars?	yes -					
18	1.3	16 ✓		c7	c8	c 7
19	2.8	34 ✓		f6	b6	f 6
20	1.7	20 ✓		a10	a10	a 10
21	1.8	22 ✓	I.C. 3134 - ✓	c9	d9	d 9
22	1.6	19 ✓		✓c9	f8 ✓	c 8
23	1.8	22 ✓		f10	a10	a 10
24	2.1	25 ✓		✓a7	f9	a 8
25	1.4	17 ✓		✓f9	c9	c 9
~~26~~	too faint					
27	3.2	38 ✓		d7	d7	d 7
28	1.9	23 ✓		f10	f10	f 10
29	3.0	36 ✓		e9	e9	e 9 S:
30	1.4	17 ✓		f10	f10	f 10

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1927phae.proj.2316A

B	31	4.7	56 ✓		d6	d6	d6 s:
	32	1.6	19 ✓		f9	f10 ✓	f9
	33	2.0:	24: ✓		a7	a9	a8
	34	3.5⁻	42 ✓		f4	f4	f4
	35	2,2	26 ✓		f9	f10 ✓	f10
	36	2.9	35 ✓		le7	le6 ✓	le7
	37	2.4	29 ✓		✓ f10	a10	f10
	38	2.6	31 ✓		c9	c9	c9
	~~two stars?~~						
	39	1.5⁻	18 ✓		✓ c8	f7 ✓	f8
	40	7.3	88 ✓		f8	f9	f9 s:
	41	2.0	24 ✓		e7	e8 ✓	e8
	42	2.2	26 ✓		a7	a8 ✓	a7
	43	2.4	29 ✓		c5⁻	c5	c5
	44	1.8	22 ✓		✓ a10	f9 ✓	a10
	45	2.3	28 ✓		a7	a7	a7

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1927phae.proj.2316A

46	2.0	24 ✓	·b6:	a4	a 5-
47	3.1	37 ✓	f7	f6 ✓	f 7
scratch 48	1.6	19 ✓	a9	a10 ✓	a 10
on one edge					
49	2.3	28 ✓	✓c8	f9 ✓	c 9
50	1.4	17 ✓	✓f8	a7 ✓	a 8
51	3.7	44 ✓	f5-	f5	f5-
52	4.0	48 ✓	·d5-	e6 ✓	d 5- s:
53	1.6	19 ✓	✓c9	f9	f 9
54	1.9	23 ✓	✓f8	c9 ✓	f 8
55-	13.5	162 ✓	s c10	s: d10	s d 10
56	1.8	22 ✓	~~f8~~	ic10	i f 9
~~(stuc)~~ ?					
57	2.0:	24: ✓	f9	f10 ✓	f 9
58	2.7	32 ✓	a7	a9	a 8
59	2.6	31 ✓	✓c7	f7	f 7
scratched.					
~~60~~	~~1.3~~	~~16~~ ✓	~~tut~~	~~a4~~	~~a10~~ ~~a9~~
			defect.		

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1927phae.proj - 2316A

B

defect on top 61	2.7	32 ✓	✓a6	f7 ✓	a6	
62	2.2	26 ✓	a8	a8	a8	
63	3.2	38 ✓	f5	f4 ✓	f5	
64	2.4	29 ✓	✓a8	f6	f7	
65	2.3	28 ✓	a6	a5 ✓	a6	
66	1.2	14 ✓	✓f10	a10	f10	
67	2.0	24 ✓	✓c9	d8 ✓	d9	
68	1.9	23 ✓	a10	a10	a10	
69	2.6	31 ✓	f9	f7	f8	
70	2.3	28 ✓	c7	c8 ✓	c8	
71	1.2	14 ✓	f8	f9 ✓	f9	
72	2.8	34 ✓	i'a6	i'a5 ✓	i'a6	
73	2.0	24 ✓	a8	a6	a7	
74	1.2	14 ✓	f8	f8	f8	
75	2.4	29 ✓	f2	f2	f2 S;	

✓

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1927phae.proj.2316A

76	2.5	30	a 8	f 8	a 8
77	1,8	22	d 8	d 8	d 8
78	1.6	19	f 7	f 5	f 6
79	2.8	34	a 7	a 7	a 7
80	1,5	18	f 5	a 5	a 5
81	2.3	28	f 10	f 9	f 10
82	1.3	16	a 7	f 9	a 8
83	1.6	19	a 9	f 10	b 9
84	2.9	35	d 9	d 10	d 10
85	1.1	13	c 9	f 9	c 9
86	2.2	26	c 7	c 6	c 7
87	2.5	30	a 6	a 4	a 5
88	1.7	20	a 9	c 9	f 9
89	1.6	19	b 9	f 8	b 8
90	1.7	20	i a 6	i a 7	i a 7

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1927phae.proj.-2316A

B	91	1.4	17 ✓	✓ f9	a8 ✓	a 8
	92	1.6	19 ✓	✓ a7	i f8 ✓	i a 7
	~~several stars?~~					
	93	2.0	24 ✓	a6	a 7 ✓	a 6
	94	1.8	22 ✓	✓ a6	f6	f 6
	95	1.3	16 ✓	c9	c8 ✓	c 9
	96	1.7	20 ✓	✓ c9	d10 ✓	c 10
	97	1.4	17 ✓	✓ f~~9~~ 6	a6 6	a 6
	98	2.5:	30: ✓	f~~8~~ 7	f5 6	f 6
	99	2.3	28 ✓	✓ a7	f7	a 7
	100	1.0	12 ✓	d9	d8 ✓	d 9
	101	1.4	17 ✓	a8	a10	a 9
	102	1.8	22 ✓	✓ f8	a8	a 8
	103	1.1	13 ✓	✓ a10	f10	a 10
	104	1.5	18 ✓	✓ c9	f10 ✓	f 10
	105	2.6	31 ✓	✓ f~~8~~ 5	a5 5	f 5

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1927phae.proj.2316A

106	4.6	55 ✓		C4	C3 ✓	C 3 S:
107	1.3	16 ✓		a 8	a 8	a 8
108	1.6	19 ✓		ic 7	c 7	ic 7
109	1.2	14 ✓		✓c 10	f 9 ✓	f 10
st. superposed following 110	1.5	18 ✓		c 6	f 5 ✓	c 5 st. sup. f.
111	2.3	28 ✓		d 8	d 8	d 8
112	3.2	38 ✓		c 9	c 10 ✓	c 10 S:
~~113~~	~~1.3~~	~~16~~	star	~~f 9~~		
114	2.0	24 ✓		✓e 10	d 10	e 10
115	1.8	22 ✓		✓f 8	c 10	c 9
116	1.7	20 ✓		c 9	c 7	c 8
117	1.4	17 ✓		f 8	f 8	f 8
118	1.7	20 ✓		f 9	f 10 ✓	f 9
119	1.6	19 ✓		✓f 8	a 8	f 8
✓ 120	1.9	23 ✓		c 10	c 10	c 10

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1927phae.proj.2316A

B	121	1.9	23 ✓	✓a 9	f 9	f 9	
	122	1.1	13 ✓	c 8	c 7✓	c 8	
	123	2.0:	24: ✓	✓d 8	e 10	d 9	
	124	1.6	19 ✓	f 9	f 7	f 8	
	125	2.3	28 ✓	c 7	c 7	c 7	
	126	1.8	22 ✓	a 8	a 8	a 8	
	127	1.0	12 ✓	✓f 10	a 9✓	a 9	
	128	1.3	16 ✓	a 9 c 9	d 5 c 9	c 9	
	129	2.1	25 ✓	✓f 6	a 7✓	f 6	
	130	4.0	48 ✓	✓f 10	a 10	a 10	
	131	1.4	17 ✓	✓f 8	a 6	f 7	
	132	1.6	19 ✓	✓f 10	a 10	a 10	
	133	2.3	28 ✓	c 8	c 8	c 8	
~~Defect~~?	134	2.3	28 ✓	✓a 10	f 7	a 8	
✓	135	1.8	22 ✓	✓f 9 8	c 10	c 9	

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1927phae.proj.2316A

136	2.1	25	f8	f8	f8
137	3.2	38	a8	f10	a 9
138	1.3	16	c9	c10	c 10
139	2.6	31	f8	f8	f8
140	3.4	41	a9	a10	a9
141	2.0	24	a10	a 9	a 10
142	1.9	23	a6	a 6	a 6
143	2.1	25	f10	f10	f 10
144	1.5	18	a10	a10	a 10
145	1.6	19	a8	f 7	f 7
146	1.4	17	c5	c6	c 6
147	2.0	24	c10	f10	c 10
148	2.2	26	f9	c8	c 9
149	1.4	17	f5	c5	f 5
150	1.9	23	c10	f10	f 10

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1927phae.proj.2316A

B	151	1.7	20 ✓	d7	d7	d7
	152	1.6	19 ✓	✓b9	a7	f 8
	153	1.2	14 ✓	c8	c 9✓	c 8
	154	1.9	23 ✓	c7	c7	c7
	155	2.0	24 ✓	d10	d9✓	d 9
	156	2.9	35- ✓	c5-	c5-	c5-
	157	1.5	18 ✓	✓c9	f7	f 8
star preceding	158	3.0	36 ✓	a5-	a5-	a5-
	159	1.9	23 ✓	✓f8	a6	f 7
	160	1.0	12 ✓	✓f8 10	c10 10	c10
	161	1.2	14 ✓	✓f9	a10✓	f10
	162	4.8	58 ✓	c5-	c5-	c5-
	163	1.8	22 ✓	c7:	a10	f8:
	164	2.0:	24: ✓	f10	f10	f10
	165	1.8	22 ✓	✓f9	c8✓	c 9

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1927phae.proj.2316A

	166	2.2	26 ✓		f10	b8	b9
?	167	1.4	17 ✓		v d10 9	c6 9	d8
	168	1.8	22 ✓		v d7	e7	e7
	169	1.9	23 ✓		f9	b9	f9
	170	1.7	20 ✓		v e8	d8	e8
	171	1.1	13 ✓		v f10	c8	c9
	172	1.7	20 ✓		v a7	f7	a7 S:
	173	4.0	48 ✓		e4	e4	e4 S:
	174	1.2	14 ✓		v f7	a9	a8
	175	1.7	20 ✓		a9	a8 v	a8
	176	6.5	78 ✓ (IC 3271) S?		v e10	d9 v	S: e9
	177	2.3	28 ✓		c5	c5	c5
	178	1.6	19 ✓		a8	a10	a9
	179	1.5	18 ✓		f6	f4	b5
✓	180	1.0	12 ✓		a10	a10	a10

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B 181	1.6	19 ✓	✓ b7	c 9	c 8	
182	1.3	16 ✓	d 10	d 10	d 10	
183	1.5	18 ✓	c 9	c 7	c 8	
184	1.7	20 ✓	b 9	b 10 ✓	b 10	
185	1.9	23 ✓	a 6	a 5 ✓	a 5	
186	2.2	26 ✓	b 10	b 9 ✓	b 10	
187	1.3	16 ✓	a 10	a 10	a 10	
188	3.9	47 ✓	i b 6	i b 6	i b 6	
				ft. star sup. n.f.		
189	1.7	20 ✓	c 7	c 5	c 6	
defect ✓ 190	1.0	12 ✓	a 10	a 10	a 10	
on top						
191	1.3	16 ✓	✓ c 8	d 7 ✓	c 7	
192	2.0	24 ✓	✓ b 9	c 9	c 9	
193	2.2	26 ✓	✓ c 6	b 6	c 6	
194	1.2	14 ✓	a 10	a 10	a 10	
✓ 195	1.2	14 ✓	✓ b 10	a 10	a 10	
		✓				

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1927phae.proj.2316A

196	2.8	34	a 3	a 2	a 2 s; st. sup. s. f.
197	3.0;	36	a 10	a 9	a 9
198	1.6	19	b 6	b 6	b 6
199	2.6	31	b 10	b 10	b 10
200	1.4	17	c 7	c 7	c 7
201	1.3	16	b 9	b 8	b 8
202	2.8	34	b 10	b 10	b 10
203	1.3	~~28~~ 16	a 9	a 9	a 9
204	2.2	26	d 10	d 10	d 10
205	1.4	17	c 10	c 10	c 10
206	4.3	52	ic 7	ic 7	ic 7
207	1.3	16	a 8	a 6	a 7
208	1.7	20	b 8	b 6	b 7
209	2.8	34	c 5	d 5	c 5
210	1.4	17	b 8	b 6	b 7

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1927phae.proj.2316A

B					
~~211~~	~~1.0~~	~~12~~	stellar	~~vc10~~	~~f9v~~ ~~f9~~
212	1.5	18 ✓		f8	f8 b8
213	1.9	23 ✓		c8	c.7v c8
214	2.0	24 ✓		a8	a8 a8
215	1.2	14 ✓		d10	f9v e9
stellar?					
216	1.5	18 ✓		a8	a7v a8
217	1.2	14 ✓		a9	a10v a9
218	1.3	16 ✓		vf8	c8 f8
219	1.7	20 ✓		a9	a10v a10
220	1.6	19 ✓		va6	f6 f6
221	1.9	23 ✓		a7	a7 a7
222	1.0	12 ✓		vf10	c10 f10
223	1.1	13 ✓		c9	c9 c9
224	1.0	12 ✓		a8	a8 a8
225	1.3	16 ✓		c9	c9 c9

✓

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226	1.8	22 ✓	vf8	c9v	c 9
227	1.0	12 ✓	vc10	d7	c8
228	3.0	36 ✓	f6	f8	b7
229	3.0	36 ✓	vf7	a8v	a 8 s:
230	16.7	200 ✓	c 8	s: c 8	sc8
231	12.0 / 2[28.7 14.3: 2.8	34 ✓	a10	a9v	a 9
232	2.0	24 ✓	vf10	c8	f 9
233	1.9	23 ✓	vc6	b6	f 6
234	2.3	28 ✓	va8	b8	a 8
235	18.5	222 ✓	c1	c1	c1 s:
236	2.1	25 ✓	c 9	c9	c9
~~237~~	N.G.C. 4366		c7		
238	1.8	22 ✓	f9	c10	c 10
239	1.6	19 ✓	vf10	a10	f 10
240	1.7	20 ✓	f6	b6	f 6

✓

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13810

	241	1.6	19	stellar	d8	d8	d8	
✓	242	1.8	22 ✓		a4	a3 ✓	a3	s:
✓	243	1.9	23 ✓		a6	a6	a6	
✓	244	1.4	17 ✓		a8	a8	a8	
✓	245	3.0	36 ✓		c10	c10	c10	
✓	246	2.2	26 ✓		f9	f10 ✓	f10	
✓	247	4.7	56 ✓		c3	c4 ✓	c3	s:
✓	248	1.5	18 ✓		f10 9	f7	f9	
✓	249	2.2	26 ✓		a8	a8	a8	
✓	250	3.7	44 ✓		c9	c8 ✓	c8	
✓	251	1.3	16 ✓		f9	f9	f9	
✓	252	2.4	29 ✓		✓f9	a10	a9	
✓	253	1.0	12 ✓		c10	c9 ✓	c10	
✓	254	1.6	19 ✓		f8	f8	f8	
✓	255	1.7	20 ✓		c9	c9	c9	

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v256	1.7	20	f7	f7	f7	
v 257	1.9	23	a6	a8	a7	
v 258	1.7	20	v a8	f7 v	a7	
v 259	1.4	17	v a9	f10	f10	
v 260	2.9	35	c5	c5	c5	s:
v 261	2.5	30	d9	d9	d9	
v 262	2.4	29	v f9	a10 v	f9	
v 263	1.8	22	f10	f10	f10	
st. n. f. v 264	1.0	12	a8	a8	a8	
v 265	2.4	29	c8	c9 v	c8	
v 266	2.2	26	a5	a5	a5	
v 267	7.3	88	c7	c6 v	c7	s:
v 268	1.8	22	a10	a10	a10	
v 269	2.0:	24:	v f10	c8	c9	
v 270	2.1	25	f6	f6	f6	

v

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B 271	1.3	16	d9	d9	d9
272	1.4	17	f8	c8	f8
273	1.4	17	a7	a8	a8
274	1.2	14	f8	b8	b8
275	1.1	13	f8	b9	b9
~~276~~		I.C. 3229			
277	1.2	14	f6	c6	c6
278	1.0	12	a9	a9	a9
279	1.2	14	f7	a7	f7
280	1.9	23	c10	c10	c10
~~281~~	~~4.7~~	~~56~~ NGC 4342	~~b6~~	~~b6~~	~~b6~~
282	1.1	13	a7	i b7	i b7
~~283~~	~~2.7~~	~~32~~ Stellar	~~i b4~~	~~i b4~~	~~i b4~~
284	1.3	16	c9	c10	c10
285	2.0	24	a7	a5	a6

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286	1.2	14	f8	b8	b8
287	3.5	42	c8	c9	c9
288	2.1	25	f7	f8	b8
289	1.8	22	a9	c8	f9
290	1.6	19	f8	c9	c8
291	2.4	29	c8	d5	c6
292	1.0	12	a9	a8	a9
293	1.7	20	f10	c9	c10
294	2.6	31	f7	b7	b7
295	1.7	20	f8	a9	f9
296	1.6	19	a8	f7	f8
297	1.5	18	c9	d10	c9
298	1.3	16	f8	c9	c8
299	1.5	18	f7	c8	f7
300	2.8	34	a6	a6	a6

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B

	301	1.1	13	b10	b10	b10
	302	1.3	16	b9	b9	b9
	303	1.8	22	a6	a7	a6
	304	1.9	23	c9	c8	c9
	305	1.4	17	a9	a9	a9
	306	2.2	26	b10	a7	b10
	307	2.0	24	c6	b4	c5
	308	2.4	29	c10	c9	c10
	309	1.6	19	b10	c10	c10
	310	2.8	34	a7	a8	a7
	311	3.1	37	ic6	d6	ic6 double ? H.S.
	312	2.3	28	b8	b7	b8
	313	1.7	20	b9	c9	c9
	~~314~~	~~1.6~~	~~19~~ Stellar	~~b7~~	~~b5~~	~~b6~~
	315	1.9	23	a8	a8	a8

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✓	316	2.1	25 ✓	✓f9	c9	f9
	317	1.6	19 ✓	✓f10	c9✓	c9
✓	318	1.9	23 ✓	✓a6	b5✓	a6
✓	319	2.3	28 ✓	✓c9	b10✓	f9
✓	320	1.6	19 ✓	a8:	a10	a9
✓	321	1.5	18 ✓	c7	c6✓	c6
✓	322	2.9	35 ✓	c7	c7	c7
✓	323	2.0	24 ✓	✓a9	b10✓	a9
✓	324	2.3	28 ✓	✓f8	c8	c8
✓	325	1.4	17 ✓	b7	b7	b7
✓	326	1.5	18 ✓	✓f10	c9✓	f10
✓	327	1.8	22 ✓	a9	a10✓	a9
✓	328	2.3	28 ✓	f7	b7	b7
✓	329	1.6	19 ✓	c8	c10	c9
✓	330	1.5	18 ✓	if8	ic8	ic8

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1927phae.proj - 2316A

13 810

B

331	2.8	34	c6	c7	c6
332	1.4	17	f10	f8	f9
333	2.9	35	c7	f8	c7
334	1.7	20	a8	a6	a7
335	3.3	40	f9	a8	a8
336	1.8	22	d8	d8	d8
337	1.9	23	c9	c10	c9
338	2.9	35-	a7	f5-	a6
339	3.7	44	c5-	c5-	c5-
340	2.2	26	d7	d8	d8
341	2.1	25	c6	c6	c6
342	2.4	29	d5	d3	d4
343	1.9	23	f10	c10	c10
344	2.2	26	f9	c10	f9
345-	1.3	16	f10	f9	f10

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346	1.8	22	c9	a8	b9
347	1.7	20	b9	b9	b9
348	1.5	18	b7	b8	b8
349	1.4	17	a8	a6	a7
350	1.2	14	d9	d7	d8
351	1.3	16	b9	a8	a9
352	3.1	37	c6	b6	c6
353	1.0	12	f8	c10	c9
354	2.5	30	c8	d8	c8
355	1.4	17	f8	b8	b8
356	1.8	22	b9	c7	c8
357	1.6	19	c9 5	c6	c6
358	2.0	24	c10	c9	c10
359	1.9	23	f10	b9	b9
360	1.2	14	c9	c10	c10

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B 361	1.4	17	d 10 c	a 9 c	c 9	
362	2.0	24	c 7	c 8	c 8	
h.st. 363	8.6	103	c 2	c 2	c 2	S:
n. preceding						
364	1.9	23	a 8	a 10	a 9	
365	1.2	14	a 9	a 9	a 9	
366	1.6	19	b 9	b 8	b 9	
367	2.1	25	c 8	e 9	d 8	
368	1.7	20	b 8	a 7	b 7	
369	1.7	20	b 6	b 6	b 6	
370	1.8	22	a 7	a 8	a 8	
371	2.3	28	c 9	c 9	c 9	
372	2.0	24	b 8	b 8	b 8	
373	1.7	20	b 8	b 8	b 8	
374	1.0	12	b 9	c 9	c 9	
375	1.9	23	a 9	a 9	a 9	

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1927phae.proj.2316A

376	1.4	17	f9	a7	f 8	
377	2.1	25	a5	a5	a5	
br. st. following 378	3.0	36	c8	c8	c 8	
379	5.0	60	f4	c4	c 4 S:	
380	8.5	102	Se10	Se10	Se10	
381	2.7	32	f9	a8	f 9	
382	2.3	28	a8	a9	a 8	
383	2.0	24	f9	c10	c9	
384	1.8	22	f8	a9	f 8	
385	1.6	19	a6	c6	f 6	
386	1.8	22	a7	a7	a 7	
387	2.2	26	c7	c7	c 7	
388	4.5	42	f5	d4	c 5 S:	NGC 4287
st. preceding 389	1.7	20	f9	f9	f 9	
390	1.8	22	c10	c10	c 10	

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1927phae.proj - 2316A

B	391	2.7	32	f6	a7	a6
	392	2.1	25	a6	a6	a6
	393	1.3	16	c8	b9	c9
	394	1.4	17	c8	d8	d8
	395	1.2	14	b9	b7	b8
	396	2.2	26	c5	d4	c4 s:
	397	5.3	64	b3	b5	b4 s:
	398	1.5	18	b9	c9	c9
	399	1.2	14	f10	b10	b10
	400	3.0:	36:	f9	a7	f8
	401	1.7	20	a8	b8	f8
	402	2.5	30	c6	c6	c6
	403	2.2	26	b7	f8	b7
	404	1.7	20	c8	c8	c8
	405	2.0	24	f7	b9	b8

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406	1.4	17	c8	d6	c7
407	1.7	20	c9	d9	d9
408	2.4	29	a7	a5	a6
409	2.2	26	a9	b10	a10
410	1.6	19	a10	b9	b9
411	2.3	28	a5	a5	a5
412	2.6	31	b5	b4	b4 s:
413	1.7	20	b7	b9	b8
414	2.9	35	b7	d7	c7
415	3.0	36	c10	d10	c10
416	1.9	23	a6	a8	a7
417	2.9	35	c5	d5	d5 s:
418	1.7	20	b8	b8	b8
419	1.5	18	a9	b10	a9
420	2.2	26	b9	b10	b10

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B

421	3.2	38 ✓	✓a 6	b 7 ✓	b 7
422	1.5	18 ✓	✓c 10	d 10	c 10
423	2.0	24 ✓	a 8	a 10	a 9
424	1.4	17 ✓	b 8	b 10	b 9
425	2.0	24 ✓	c 7	c 8 ✓	c 8
426	1.3	16 ✓	a 8	a 10	a 9
427	2.0	24 ✓	c 9	c 7	c 8
428	1.7	20 ✓	c 8	c 8	c 8
429	1.5	18 ✓	a 7	a 7	a 7
430	1.4	17 ✓	a 8	a 7 ✓	a 7
431	2.2	26 ✓	b 10	b 9 ✓	b 10
marred, 432	1.4	17 ✓	✓b 10	c 10	c 10
433	1.9	23 ✓	a 9	a 9	a 9
434	2.5	30 ✓	✓a 6	b 6	a 6
435	2.3	28 ✓	b 7	b 8 ✓	b 7

✓

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436	3.2	38 ✓	b3	b4 ✓	b3 s:	
437	2.7	32 ✓	✓f8	a7 ✓	b8	
438	2.2	26 ✓	✓d6	c7 ✓	c7	
439	2.3	28 ✓	f6	f6	f6	
440	1.4	17 ✓	✓c10	f10	c10	
441	3.4	41 ✓	c5	c5	c5	
442	4.0	48 ✓	c9	c8 ✓	c8 s:	
443	1.9	23 ✓	✓f9	c9	c9	
444	2.5	30 ✓	d8	d8	d8	
445	~~2~~.0	24 ✓	a9	a7	a8	
446	2.2	26 ✓	✓f10	c10	f10	
447	2.1	25 ✓	✓f9	c10 ✓	c9	
448	1.6	19 ✓	f10	b10	f10	
449	3.4	41 ✓	c7	c8 ✓	c8	
450	2.7	~~32~~ 12	✓a8	b10	a9	

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B

451	1.9	23 ✓	f 8	c 9 ✓	c 9
452	2.4	29 ✓	f 7	a 6 ✓	f 6
453	6.5	78 ✓	c 8	c 8	c 8
454	4.1	49 ✓	c 5	d 5	d 5
455	4.2	50 ✓	a 9	f 10 ✓	a 9
✓ 456	1.3	16 ✓	c 9	c 10 ✓	c 10
457	1.9	23	f 9	f 9	f 9
457a	1.4	17 ✓	d 8	d 8 ✓	d 8
✓ 458	1.7	20 ✓	c 9	e 8 ✓	d 8
(possibly ✓ 459 st. on 3 refl.	4.0	48 ✓ possibly defect.	i c 2	i c 2	i c 2 tripple?)
✓ 460	2.0	24 ✓	c 8 8	c 5 8	c 8
✓ 461	1.8	22 ✓	a 6	f 5 ✓	f 5
(st. sup. ✓ ~~462~~ pre.	~~2.5~~	~~30~~ ✓ double-star	~~f 7~~	~~f 7~~	~~f 7~~)
✓ 463	2.1	25 ✓	c 3	c 3	c 3 s:
✓ 464	1.7	20 ✓	f 8	a 7 ✓	f 8
✓ 465	2.0	24 ✓	f 10 7	f 6	f 7

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✓	466	1.7	20 ✓	f8	f9 ✓	f9
✓	467	2.0	24 ✓	f6	f6	f6
✓	468	2.4	29 ✓	a8	a10	a9
	~~469~~	~~3.1~~	~~37~~ I.C. 3357	~~a7~~	~~a7~~	~~a7~~
✓	469	1.6	19 ✓	b8	b7	f8
✓	470	1.8	22 ✓	b10	c10	c10
✓	471	2.3	28 ✓	b8	c8	f8
	472	2.1	25			d7

(called I.C. 3352)

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For Section C See Bk 7 pg. 31

For I.C. objects see Bk 7 pg 150

Additional objects found by Reinmuth:

R	109	2.5	30	d 8
	215	3.5:	42:	f 9:
	216	3.0	36	a 7
	218	2.2	26	f 9
	228	2.6	31	a 7
	220	1.3	16	i c 8
(A 67				
	227	3.0	36	a 7:

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+ 35	18	- 36	22	15
+ 94	55	- 173	80	44
201	103	- 231	113	80
+ 94	48	- 74	33	16
424	224	514	248	155

1072	55
3423	180
5520	298
2288	97
12303	630

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