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J. MOHR

and U. MOHR

THIS BOOK BELONGS TO

CLASS OF ALL CLASSES

HARVARD COOPERATIVE SOCIETY

- - - JOIN THE COOP - - -

COOP PURCHASES PAY DIVIDENDS

Miscellaneous
Observations

by

J. MOHR

May, '34.

⁺
V M K Libben

INDEX

VARIABLES IN M55

Magnitudes of suspected cluster-type
vars. in L.M.C. — special runs

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} J.M.

Measures on L.M.C. Variables
for Kutzsperg effect

MF and B plates

75-97

Setting up secondary sequences

98

A plates

99-148

A plates

16-47

U.M.C., 1937-1938

a search for variables in M55
on X and A plates

PLATE	Var. NO	B+	Ft	Remarks
X7929C } 15461 }	1	7929	15461	
	2	15461	7929	Defect
	3	7929	15461, 15552	
	4	15461	7929	Bailey #1
	5	15461 7929 , 15552	7929 15461 , A12395	May be (eclipsing?) or varying faint companion. Difficult.
	6	7929	15461	Bailey #2
X7929C } 15552 }	7	7929, 15461 15538	15552, 15481	Very good var.
A12729C 12395	8	A12729, 12249 X15527, X15461	A12395, 12690 X15538, X15481	Independently discovered on X15538 + 15527
X15538C 15527	9	15527, A12693 15527, 15461	15538, A12395 15538, 15481	

over

M 55 Variables - (contd)

PLATE	Var.No	Bt	Ft	REMARKS
A 12729 C 12716	10	A 12716, 12690, 12693 X 15552	A 12729, 12188 X 15358	
X 15538 C 15552	11	X 15552, 4918	X 15538, 5172	
X 15538 C X 5407	12	X 15538, 15450	X 5407, 15543	Very close pair, small variation

M 55 Variables - (contd)

PLATE	Var.No	Bt	Ft
A 12729 C 12716	10	A 12716, 12690, 12693 X 15552	A 12729, 12188 X 15358
X 15538 C 15552	11	X 15552, 4918	X 15538, 5172
X 15538 C X 5407	12	X 15538, 15450	X 5407, 15543 Very cl

χ

NB: My numbers 4 and 6 = Bailey's 1 + 2.

MAGNITUDES OF VARIABLES DISCOVERED IN M55

PLATE	JX nos. 1	2	3	4	5	6	7	8	9	10	11	12
<u>X</u> 4918												
5172												
5407												
7929												
8069												
15345												
15407												
15450												
15461												
15481												
15505												
15527												
15538												
15552												
15573												
15584												
15593												
<u>A</u> plates												
12184												
12188												
12229												

A plates
(cont)1- 2 ~~3~~ 3 5 6 7 8 9 10 11 12

12247

12249

12393

12395

12509

12690

12693

12716

12723

12729

12731

A Plates
(cont)1- 2 ~~3~~ 3 5 6 7 8 9

12247

12249

12393

12395-

12509

12690

12693

12716

12723

12729

12731

16

2130	2413847.841	26.45 ✓ Σ15.8 Σ15.8 15.5	26.77 ✓ 15.5	1003 ✓ 24.395 14.4 14.4	1005 ✓ 18.71 15.0 15.0	discarded 2745 ✓ Σ15.8	2788 ✓ 4.3560 Σ15.8 Σ15.8	2796 ✓ 2.8938 Σ15.8 Σ15.8	2800 ✓ 15.5
2157	13875.808	16.3 16.3 16.2	15.4 15.3 15.2	14.3 14.3 14.2	13.8 13.8 13.8	16.0 15.9 15.9	15.4 15.5 15.5	16.7 16.7 16.7	15.5
2188	13894.750	16.2 16.2 16.2	15.2 15.1 15.1	14.4 14.4 14.5	14.1 14.1 14.2	16.3 16.2 16.2	15.5 15.6 15.5	16.2 16.3 16.3	15.9
2198	13946.555	16.2 16.2 16.2	15.2 5.2 15.1	14.5 14.5 14.5	15.4 15.4 15.4	16.4 16.3 16.3	15.5 15.5 15.5	16.0 16.2 16.3	15.9
2202	13948.574	Σ15.8 25.8 16.0	15.4 15.4 15.4	14.4 14.3 14.3	14.9 14.9 14.9	Σ15.8 16.0	16.0 16.0 16.0	15.9 15.8 15.7	16.0
2203	13951.594	16.2 16.2 16.1	15.2 15.3 15.3	13.0 13.0 13.0	14.2 14.2 14.3	16.4 16.4 16.3	15.6 15.6 15.6	15.8 15.9 15.9	16.1
2207	13954.585	16.1 16.1 16.0	15.2 15.2 15.2	13.1 13.2 13.4	14.4 14.3 14.2	15.5 15.5 15.5	15.1 15.2 15.2	15.5 15.5 16.0	15.6
2209	13956. - 7. -	omitted							
2960	14341.541	16.0 16.0 16.1	15.4 15.2 15.1	13.2 13.3 13.3	15.4 15.3 15.1	16.2 16.2 16.2	15.9 15.9 15.8	16.0 16.0 16.0	16.7
7096	16814.582	6.56 16.5 16.5 16.4	16.7 16.7 16.7	13.8 13.8 13.9	14.0 14.0 13.9	16.3 16.3 16.2	16.2 16.2 16.2	16.5 16.5 16.5	15.5
7098	16816.644	16.2 16.2 16.2	16.5 16.5 16.4	14.4 14.4 14.4	14.5 14.5 14.4	16.1 16.1 16.1	15.3 15.4 15.5	15.9 16.0 16.0	16.1
7099	16816.768	16.2 16.2 16.2	16.5 16.4 16.3	14.2 14.2 14.2	14.4 14.4 14.3	16.2 16.1 15.7	15.7 15.5 15.3	16.1 16.1 16.0	16.1
7101	16820.567	16.0 16.1 16.2	16.5 16.5 16.5	13.8 14.3 14.4	14.9 14.8 14.7	16.4 16.4 16.4	15.2 15.2 15.2	16.2 16.3 16.4	16.1
7102	16820.651	16.2 16.2 16.2	16.5 16.5 16.5	14.1 14.3 14.5	14.8 14.9 14.9	16.4 16.3 16.2	15.3 15.2 15.2	16.7 16.6 16.4	16.2
7103	16820.747	16.1 16.1 16.1	16.5 16.5 16.5	14.4 14.5 14.5	14.8 14.8 14.8	16.2 16.3 16.4	15.2 15.2 15.2	16.3 16.3 16.4	16.0
7104	16820.838	16.0 16.0 15.9	16.5 16.6 16.6	14.2 14.3 14.4	15.0 15.0 15.1	16.2 16.2 16.2	15.2 15.2 15.2	16.5 16.4 16.3	16.4
7114	16823.638	16.1 16.1 16.1	16.5 16.5 16.5	14.6 14.5 14.4	15.1 15.1 15.2	15.5 15.5 15.5	16.1 16.1 16.0	16.6 16.6 16.6	15.5
7123	16855.573	16.2 16.3 16.3	16.6 16.6 16.6	13.3 13.4 13.4	14.7 14.6 14.5	15.7 15.6 15.5	15.3 15.3 15.3	16.5 16.4 16.4	15.5
7125	16856.557	16.1 16.0 16.0	16.5 16.5 16.6	13.1 13.3 13.4	14.6 14.6 14.7	16.2 16.3 16.3	15.5 15.7 15.9	16.6 16.5 16.5	15.5
8211	17590.584	16.1 16.1 16.0	16.1 16.0 15.9	13.5 13.6 13.7	15.2 15.2 15.2	16.1 16.1 16.1	16.4 16.4 16.5	Σ16.4 Σ16.4 Σ16.6	15.5
8561	17933.607	15.5 15.5 15.5	15.1 15.1 15.1	13.8 13.8 13.8	15.1 15.1 15.1	Σ15.6 Σ15.6 Σ15.8	Σ15.8 Σ15.8 Σ15.8	Σ15.8 Σ15.8 Σ15.8	Σ15.8
10625	19690.652	Σ15.0 Σ15.0 Σ15.3	14.9 15.0 15.1	13.8 13.8 13.8	Σ15.0 Σ15.0 15.2	Σ15.0 Σ15.0 Σ15.3	Σ15.0 Σ15.0 Σ15.0	Σ15.0 Σ15.0 Σ15.0	Σ15.8
11586	21154.744	Σ16.8 Σ15.8 Σ15.8	15.1 15.1 15.1	13.8 13.7 13.6	14.0 14.1 14.2	Σ15.8 Σ15.8 Σ15.8	Σ15.8 Σ15.8 Σ15.8	Σ15.8 Σ15.8 Σ15.8	Σ15.8
12286	23465.600	16.2 16.2 16.3	15.4 15.4 15.3	13.4 13.3 13.8	15.3 15.3 15.2	16.2 16.2 16.3	16.1 16.1 16.0	16.6 16.6 16.6	16.1
12288	23486.545	15.7 15.7 15.7	15.4 15.4 15.5	13.8 14.5 14.4	15.2 15.3 15.4	16.2 16.2 16.2	15.7 15.6 15.5	15.8 15.8 15.9	16.1

• 2826 ✓	• 2795 ✓	• 2787 ✓	• 2809 ✓
4.7 10.1	3.9 13.4	11.4	2.5 0.5 6
15.8 15.9	15.8 15.8	15.1 15.1	15.8 15.8
15.9	16.3	15.0	16.4
15.5 15.6	16.6 16.5	15.1 15.1	16.4 16.5
15.6	16.3	15.1	16.5
15.9 15.9	16.2 16.2	14.9 14.8	15.5 15.4
16.0	16.2	14.8	15.4
15.9 15.7	16.6 16.6	15.2 15.3	16.4 16.4
15.5	16.3	15.3	16.4
16.0 15.8	15.5 15.5	15.2 15.2	16.2 16.3
15.7	15.6	15.3	16.3
16.1 16.0	15.4 15.4	14.8 14.9	16.5 16.6
15.9	15.5	15.1	16.6
15.4 15.5	16.6 16.7	14.7 14.8	15.4 15.4
15.5	16.7	14.9	15.4
16.3 16.3	16.2 16.2	14.8 15.1 15.1	16.3 16.3
16.3	16.2	15.3	16.3
15.7 15.7	16.6 16.6	14.7 14.6	16.4 16.4
15.7	16.5	14.5	16.4
16.1 16.2	15.6 15.6	15.2 15.2	16.1 16.1
16.2	15.6	15.2	16.1
16.2 16.2	15.7 15.8	15.2 15.2	16.0 16.1
16.2	15.9	15.1	16.1
16.4 16.3	15.7 15.7	15.4 15.5	16.5 16.5
16.3	15.7	15.5	16.5
16.2 16.2	16.1 16.1	15.4 15.4	16.7 16.7
16.2	16.0	15.4	16.7
16.0 16.1	15.6 15.6	15.4 15.4	16.3 16.2
16.2	15.7	15.4	16.2
16.4 16.4	16.1 16.1	15.4 15.4	16.2 16.3
16.1	16.0	15.4	16.3
15.8 15.8	16.5 16.4	15.2 15.1	15.4 15.4
15.7	16.2	15.0	15.5
15.7 15.7	15.4 15.5	15.6 15.6	16.5 16.5
15.7	15.5	15.5	16.4
15.7 15.6	16.2 16.2	15.4 15.5	15.9 15.9
15.5	16.2	15.5	15.9
15.5 15.5	16.4 16.5	14.7 14.8	15.4 15.4
15.5	16.6	14.9	15.5
15.8 15.8	15.8 15.8	14.8 14.9	15.8 15.8
15.8	15.8	15.0	15.8
15.0 15.0	15.0 15.0	15.0 15.0	15.0 15.0
15.0	15.0	15.0	15.0
15.8 15.8	15.8 15.8	15.4 15.4	15.8 15.8
15.8	15.8	15.4	15.8
16.1 16.1	15.8 15.8	14.5 14.7 14.7	16.5 16.5
16.2	15.8	15.0	16.5
16.1 16.0	16.5 16.6	14.4 14.4	15.9 15.7
16.0	16.6	14.4	15.6

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2290	2423487.568	26.45	26.77	1003	1005	2745	2788	2796	
		16.0 16.0	16.0 15.9	14.1 14.2	15.5 15.4	16.2 15.8	16.2 16.0	16.4 16.0	15.1
		16.6	15.8	14.3	15.4	15.8	16.0	16.0	
2292	23489.538	15.6 15.7	15.4 15.4	13.4 13.2	14.9 14.9	16.3 16.3	15.5 15.5	15.9 15.8	16.1
		15.7	15.4	13.1	14.8	16.2	15.5	15.7	
12320	23527.509	16.0 16.6	15.6 15.6	14.2 14.3	15.4 15.4	15.7 15.6	16.2 16.2	16.2 16.2	16.1
		16.2	15.6	14.3	15.4	15.6	16.3	16.2	
12326	23529.536	16.3 16.4	16.2 16.3	14.6 14.6	14.4 14.3	16.3 16.3	15.5 15.5	16.6 16.6	15.1
		16.4	16.4	14.5	14.2	16.3	15.5	16.6	
12648	23667.867	16.2 16.1	16.3 16.3	14.2 14.0	14.8 14.8	16.3 16.3	15.4 15.4	17.1 17.0	16.1
		16.1	16.3	13.8	14.9	16.2	15.4	16.9	
12697	23681.879	16.2 16.2	16.6 16.5	14.3 14.3	14.2 14.3	16.1 16.2	15.6 15.6	16.9 16.9	16.1
		16.1	16.5	14.4	14.4	16.3	15.6	16.8	
12699	23682.875	16.3 16.3	16.2 16.4	14.2 14.2	14.3 14.3	16.2 16.2	16.2 16.2	16.8 16.8	16.1
		16.2	16.5	14.2	14.4	16.2	16.2	16.8	
12700	23683.871	15.7 15.8	16.3 16.3	13.3 13.4	14.5 14.4	16.2 16.2	16.2 16.1	16.2 16.2	16.1
		16.0	16.3	13.4	14.3	16.2	16.1	16.2	
12782	23705.769	15.8 15.7	16.5 16.5	14.4 14.3	14.9 15.0	16.3 16.3	16.2 16.3	16.7 16.8	16.1
		15.6	16.4	14.3	15.0	16.3	16.4	16.8	
12788	23706.770	16.2 16.2	16.3 16.3	14.3 14.2	14.9 14.9	15.7 15.6	15.1 15.1	15.9 15.8	16.1
		16.2	16.3	14.0	14.9	15.6	15.1	15.7	
12830	23732.678	16.1 16.1	16.3 16.4	13.4 13.3	15.1 15.1	16.5 16.4	15.7 15.7	15.7 15.6	15.1
		16.2	16.4	13.3	15.1	16.3	15.7	15.5	
12834	23734.801	16.2 16.2	16.5 16.5	13.0 13.2	14.9 15.0	16.2 16.3	16.1 16.2	16.8 16.9	16.1
		16.1	16.5	13.5	15.2	16.3	16.2	16.9	
12848	23737.847	16.1 16.1	16.3 16.3	13.5 13.6	14.4 14.4	16.3 16.3	15.4 15.3	16.4 16.4	15.1
		16.0	16.4	13.6	14.4	16.3	15.3	16.4	
12851	23738.785	15.7 15.7	16.4 16.4	13.5 13.7	14.3 14.3	16.1 16.3	15.7 15.6	16.2 16.2	16.1
		15.7	16.4	13.8	14.4	15.6	15.5	16.2	
12855	23740.790	16.1 16.1	16.3 16.4	13.8 13.8	14.7 14.7	16.5 16.4	16.3 16.3	17.0 16.9	16.1
		16.1	16.5	13.8	14.7	16.3	16.3	16.8	
12859	23741.834	16.0 16.1	16.3 16.3	14.0 13.9	14.5 14.7	16.2 16.2	15.2 15.2	16.3 16.2	15.1
		16.1	16.3	13.8	14.9	16.2	15.1	16.2	
12866	23742.852	16.0 15.7	16.5 16.4	14.3 14.3	15.5 15.4	16.3 16.3	15.7 15.9	16.2 16.3	15.1
		15.5	16.4	14.3	15.3	16.3	16.0	16.3	
12880	23875.527	15.7 15.6	15.2 15.3	14.5 14.5	15.1 15.0	15.8 15.6	15.9 15.8	15.8 15.8	15.1
		15.5	15.4	14.5	14.9	15.6	15.8	15.8	
12883	23876.529	15.0 15.0	15.0 15.0	14.3 14.4	15.0 15.0	15.0 15.0	15.0 15.0	15.0 15.0	15.1
		15.7 15.7	15.4 15.3	14.3 14.4	15.4 15.4	16.2 16.2	15.5 15.6	15.7 15.6	16.1
12901	23900.501	15.7	15.1	14.4	15.3	16.3	15.7	15.6	
12919	23907.499	16.0 16.0	15.4 15.4	13.4 13.5	14.5 14.5	16.0 16.0	15.2 15.3	16.0 16.0	15.1
		16.0	15.4	13.5	14.5	15.8	15.4	15.8	
13095	24051.819	16.1 16.0	15.6 15.6	13.1 13.2	15.4 15.4	16.4 16.2	15.5 15.5	16.4 16.5	15.1
		15.8	15.5	13.2	15.4	16.0	15.5	16.5	
13108	24056.833	16.0 16.1	15.5 15.5	13.8 13.7	14.2 14.3	16.4 16.5	16.1 16.0	15.7 15.8	15.1
		16.2	15.5	13.7	14.3	16.5	16.0	15.8	
13111	24065.804	16.4 16.5	15.5 15.6	14.4 14.4	15.4 15.4	16.2 16.2	16.1 16.1	16.3 16.3	16.1
		16.5	15.7	14.5	15.5	16.3	16.0	16.4	
13129	24081.749	16.1 16.2	15.5 15.5	13.8 13.7	15.0 15.2	16.5 16.5	15.2 15.2	16.6 16.6	16.1
		16.2	15.6	13.5	15.4	16.4	15.1	16.7	16.1

• 2826	• 2795	• 2787	• 2809
15.6: 15.5: 15.4:	16.4 16.0 16.0	14.7 14.8 14.8	16.3: 16.0 16.0
16.0 16.0 16.0	16.2 16.1 16.0	15.2 15.2 15.2	16.2 16.2 16.3
16.2 16.2 16.2	15.5 15.5 15.5	15.5 15.5 15.5	16.4 16.3 16.3
15.4 15.5 15.5	16.5 16.5 16.5	15.2 15.2 15.2	16.1 16.2 16.3
16.2 16.1 16.0	16.8 16.7 16.5	14.9 14.8 14.7	16.3 16.4 16.4
16.1 15.9 15.7	16.6 16.6 16.6	15.0 14.9 14.9	15.9 16.0 16.1
16.2 16.2 16.1	16.6 16.6 16.6	15.1 15.2 15.2	16.7 16.7 16.6
16.2 16.3 16.3	15.9 16.0 16.1	14.9 15.1 15.3	15.7 15.8 16.0
16.1 16.0 16.0	16.4 16.4 16.3	15.0 15.1 15.2	16.7 16.7 16.6
16.2 16.3 16.4	16.6 16.6 16.6	15.0 14.9 14.8	15.5 15.6 15.7
15.5 15.5 15.6	16.5 16.6 16.7	15.5 15.5 15.5	16.7 16.5 16.3
16.7 16.6 16.6	16.0 16.0 16.0	15.2 15.1 15.1	16.5 16.4 16.3
15.5 15.5 15.6	16.3 16.3 16.3	14.3 14.4 14.5	16.3 16.3 16.3
16.2 16.2 16.3	15.5 15.6 15.7	14.8 14.7 14.6	16.5 16.5 16.5
16.3 16.3 16.3	16.3 16.3 16.3	14.9 14.9 14.9	16.8 16.8 16.7
15.5 15.5 15.5	16.7 16.7 16.7	15.4 15.4 15.4	15.5 15.7 15.9
15.7 15.9 16.1	16.3 16.3 16.3	15.2 15.2 15.2	16.3 16.4 16.5
15.8 15.8 15.8	15.8 15.8 15.8	14.7 14.6 14.5	15.8 15.8 15.8
15.0 15.0 15.0	15.0 15.0 15.0	14.7 14.7 14.8	15.0 15.0 15.0
16.2 16.3 16.5	16.0 16.0 16.0	14.9 15.0 15.1	16.3 16.3 16.3
15.7 15.7 15.7	15.6 15.5 15.5	14.8 14.8 14.7	15.8 15.8 15.8
15.7 15.7 15.7	15.7 15.7 15.7	15.4 15.5 15.5	16.5 16.5 16.5
15.4 15.5 15.6	16.2 16.2 16.2	14.8 14.8 14.8	16.7 16.7 16.6
16.5 16.6 16.6	16.4 16.4 16.4	15.4 15.4 15.4	16.3 16.3 16.3
16.1 16.1 16.2	16.3 16.2 16.2	14.7 14.7 14.8	16.5 16.6 16.7
16.2 16.2 16.2	16.2 16.2 16.2	14.8 14.8 14.8	16.6 16.6 16.6

3140	2424084.690	2645	2677	1003	1005	2745	2788	2796	
		16.2 16.3	15.7 15.6	13.9 13.8	15.4 15.4	16.4 16.4	16.4 16.5	16.4 16.4	16.4
		16.3	15.6	13.8	15.4	16.3	16.5	16.4	
3414	24353.890	16.0 16.1	16.2 16.2	14.0 14.1	14.1 14.1	16.2 16.1	15.9 15.8	16.9 16.9	15.9
		16.2	16.2	14.3	14.0	16.1	15.8	16.8	
13444	24360.895	16.1 16.0	15.9 16.0	14.2 14.3	14.9 14.9	16.2 16.2	15.5 15.5	16.0 16.0	16.1
		16.0	16.1	14.4	14.9	16.2	15.5	16.1	
13480	24380.812	16.3 16.3	15.6 15.5	14.2 14.4	14.9 14.8	16.1 16.2	16.1 16.1	15.7 15.8	16.1
		16.2	15.5	14.5	14.8	16.2	16.1	15.9	
13531	24408.850	16.0 16.1	15.5 15.5	14.3 14.3	14.2 14.2	16.1 16.2	15.5 15.5	16.6 16.5	16.1
		16.2	15.5	14.4	14.2	16.3	15.5	16.5	
13558	24418.800	16.2 16.2	15.5 15.4	13.4 13.4	15.2 15.2	16.2 16.2	16.0 16.0	16.1 16.2	16.1
		16.2	15.4	13.4	15.2	16.2	16.0	16.2	
13585	24439.798	15.6 15.6	15.2 15.1	13.4 13.4	15.4 15.4	15.6 15.6	15.5 15.5	15.6 15.6	15.5
		15.6	15.1	13.3	15.4	15.6	15.4	15.6	
13607	24462.726	16.3 16.4	15.4 15.4	14.1 14.3	15.4 15.4	16.3 16.4	16.0 16.0	16.5 16.5	15.9
		16.4	15.4	14.4	15.4	16.5	16.1	16.6	
13623	24501.614	16.2 16.3	15.4 15.4	14.0 14.0	14.8 14.9	16.2 16.2	16.2 16.1	16.8 16.8	16.1
		16.3	15.3	14.1	14.9	16.2	16.0	16.7	
13644	24637.498	16.0 16.1	15.1 15.1	13.4 13.3	14.6 14.5	16.0 16.1	16.2 16.2	16.6 16.6	15.9
		16.2	15.1	13.3	14.4	16.1	16.2	16.6	
14093	24802.831	16.2 16.2	16.1 16.0	14.2 14.2	13.9 13.8	16.1 16.1	16.1 16.2	16.7 16.7	16.1
		16.2	15.9	14.2	13.8	16.1	16.2	16.7	
14106	24821.605	16.3 16.4	16.1 16.1	14.3 14.4	13.9 13.9	16.2 16.2	16.0 16.0	16.5 16.5	16.1
		16.4	16.1	14.6	14.0	16.3	16.0	16.6	
14108	24824.683	16.2 16.2	16.0 16.1	14.1 14.3	14.5 14.4	16.0 16.1	16.2 16.3	16.5 16.5	15.9
		16.2	16.1	14.4	14.4	16.2	16.3	16.5	
14201	25850.638	16.2 16.2	15.2 15.2	14.0 14.2	13.9 13.9	16.3 16.4	16.0 16.0	16.5 16.5	16.1
		16.2	15.3	14.3	14.0	16.5	16.0	16.5	
14252	25886.539	16.4 16.4	15.4 15.6	13.8 13.8	14.7 14.6	16.0 16.1	15.6 15.7	16.4 16.6	16.1
		16.4	15.8	13.6	14.5	16.2	15.8	16.8	
14315	25915.512	16.2 16.2	15.5 15.5	14.4 14.5	14.9 14.9	15.7 15.7	15.4 15.3	16.5 16.6	16.1
		16.2	15.5	14.5	14.9	15.8	15.2	16.7	
14397	25952.512	16.2 16.3	15.9 15.9	13.2 13.1	14.8 14.8	16.2 16.3	16.2 16.2	16.0 16.1	16.1
		16.3	16.0	13.0	14.9	16.4	16.1	16.2	
14485	25997.359	15.7 15.7	15.7 15.6	14.4 14.4	15.2 15.2	16.3 16.3	16.2 16.2	16.9 16.8	15.9
		15.7	15.5	14.3	15.2	16.3	16.2	16.7	
14531	26011.336	16.1 16.1	15.2 15.3	13.8 13.9	15.4 15.4	16.2 16.2	15.3 15.3	16.9 16.9	16.1
		16.1	15.5	13.9	15.4	16.1	15.4	16.9	
14611	26055.296	16.2 16.2	15.5 15.6	13.5 13.4	14.0 14.1	15.9 16.0	15.4 15.4	16.5 16.5	15.9
		16.3	15.7	13.4	14.1	16.1	15.4	16.5	
14625	26060.243	16.0 16.1	15.5 15.5	14.1 14.1	14.7 14.7	16.1 16.1	15.6 15.6	16.5 16.4	16.1
		16.1	15.5	14.0	14.7	16.2	15.5	16.3	
14968	26245.582	16.0 16.0	15.1 15.2	13.0 13.0	14.4 14.4	16.2 16.4	16.0 16.1	16.3 16.3	16.1
		16.1	15.2	13.1	14.4	16.5	16.2	16.3	
14985	26264.557	16.1 16.1	15.2 15.2	14.3 14.3	14.3 14.4	15.7 15.7	15.4 15.5	15.6 15.8	16.0
		16.0	15.2	14.3	14.5	15.7	15.5	16.0	
15009	26274.482	16.2 16.2	15.4 15.5	13.5 13.6	15.4 15.4	15.8 16.1	16.0 16.0	16.3 16.3	16.1
		16.2	15.4	13.7	15.4	16.2	16.0	16.3	
15036	26303.577	15.7 15.7	15.5 15.6	13.8 13.8	14.4 14.4	15.8 15.8	15.6 15.6	16.3 16.3	15.9
		15.7	15.6	13.8	14.4	15.8	15.5	16.3	

• 2826	• 2795	• 2787	• 2809
16.4 16.4	16.3 16.3	15.2 15.2	16.4 16.4
16.5	16.3	15.2	16.4
15.7 15.8	16.0 15.9	15.3 15.2	16.1 16.2
15.9	15.8	15.2	16.3
16.1 16.1	15.9 15.9	15.5 15.5	15.7 16.0
16.1	15.9	15.5	16.0
16.2 16.2	15.5 15.5	14.8 15.0	15.5 15.6
16.2	15.6	15.2	15.7
16.3 16.3	16.0 16.0	15.3 15.3	16.2 16.3
16.4	16.0	15.4	16.3
16.3 16.3	16.5 16.5	15.5 15.5	16.2 16.2
16.3	16.5	15.4	16.3
Σ 15.6 Σ 15.6	Σ 15.6 Σ 15.6	15.1 15.1	Σ 15.6 Σ 15.6
Σ 15.8	15.7	15.2	Σ 15.8
15.5 15.6	15.6 15.6	15.3 15.3	16.8 16.7
15.7	15.6	15.3	16.7
16.3 16.2	16.6 16.4	15.4 15.4	16.1 16.2
16.1	16.3	15.4	16.3
15.9 15.8	16.3 16.3	15.3 15.4	16.2 16.2
15.7	16.4	15.5	16.3
16.2 16.2	16.5 16.6	14.7 14.6	16.5 16.5
16.2	16.7	14.4	16.5
16.3 16.2	16.7 16.7	15.4 15.3	15.9 15.7
16.2	16.7	15.3	15.5
15.4 15.5	16.5 16.5	14.5 14.4	16.3 16.3
15.7	16.5	14.4	16.2
16.4 16.6	16.5 16.6	15.5 15.5	16.6 16.6
16.7	16.6	15.6	16.7
16.1 16.1	16.6 16.5	15.3 15.3	15.4 15.3
16.2	16.5	15.4	15.3
16.4 16.3	16.2 16.0	15.2 15.1	14.7 16.7 16.5
16.2	15.9	15.0	16.2
16.2 16.2	16.8 16.7	15.7 15.6	16.5 16.4
16.3	16.7	15.4	16.3
15.4 15.2 15.3	16.0 16.0	15.4 15.5	16.4 16.4
15.9	16.0	15.5	16.5
16.1 15.9	16.7 16.8	15.4 15.4	16.8 16.7
15.8	16.8	15.5	16.7
15.9 15.9	16.2 16.3	15.5 15.5	16.3 16.2
15.9	16.3	15.4	16.2
16.1 16.0	16.0 16.0	14.4 14.4	16.3 16.3
16.0	15.9	14.5	16.2
16.1 16.1	16.4 16.3	15.1 15.1	16.1 16.2
16.2	16.3	15.1	16.2
16.0 16.0 15.8	16.2 16.2	15.5 15.3	16.1 15.9
15.7	16.3	15.2	15.8
16.2 16.2	16.1 16.1	15.4 15.4	16.3 16.3
16.3	16.2	15.5	16.3
15.4 15.4	16.2 16.2	15.5 15.4	16.1 16.0
15.4	16.3	15.3	16.0

	2645	2677	1003	1005	2745	2788	2796	
2426304.355	16.1 16.2 15.5 15.5	14.0 14.1 14.7 14.4	16.2 16.2 15.7 15.6	16.3 16.5	15.5	1	15.5	
26308.518	16.0 16.0 15.4 15.4	14.7 14.6 14.8 15.1 15.1	16.0 16.1 15.7 15.7	16.2 16.2	15.6	1	15.5	
26309.501	16.0 16.1 15.2 15.3	14.8 14.3 15.3 15.3	16.0 16.1 16.2 16.0	16.4 16.5	15.8	1	15.8	
26312.385	15.8 15.8 15.5 15.4	14.3 14.4 15.5 15.5	15.8 15.8 15.5 15.5	15.8 15.8	15.5	1	15.8	
26313.312	15.8 15.8 15.5 15.5	14.3 14.4 15.3 15.4	15.7 15.8 16.0 15.7 15.7	15.8 15.8	15.5	1	15.5	
26319.329	15.7 16.0 15.2 15.4	13.3 13.3 13.7 13.8	16.2 16.3 16.1 16.1	16.4 16.4	15.7	1	15.7	
26322.343	16.1 16.2 15.4 15.5	14.4 13.5 14.3 14.5	16.4 16.4 15.9 15.9	16.2 16.3	15.5	1	15.5	
26323.337	15.7 15.8 15.4 15.4	13.7 14.8 14.6 14.6	15.7 15.9 16.2 16.2	16.5 16.4	15.6	1	15.6	
26328.446	16.1 16.0 15.5 15.5	14.4 14.2 15.4 15.4	16.2 16.2 16.2 16.2	15.9 16.0	16.6	1	16.6	
26329.398	16.2 16.3 15.5 15.5	13.9 14.5 15.4 15.4	16.2 16.2 15.4 15.4	16.3 16.5	16.1	1	16.1	
26330.340	16.2 16.1 15.5 15.6	14.1 14.3 15.4 15.5	15.7 15.7 15.7 15.6	16.6 16.6	16.2	1	16.2	
26334.368	15.9 15.8 15.5 15.6	14.5 14.6 15.0 15.2	16.0 16.0 15.5 15.5	15.8 15.6	16.3	1	16.3	
26335.447	16.2 16.2 15.5 15.5	14.5 14.5 14.7 14.8	15.9 15.9 16.1 16.2	16.6 16.7	16.2	1	16.2	
26341.332	15.6 15.6 15.4 16.5	13.4 13.6 14.8 14.8	15.5 15.5 15.6 15.6	15.6 15.6	15.6	1	15.6	
26344.335	15.6 15.6 16.5 15.3	13.3 13.4 14.9 14.9	15.6 15.6 15.6 15.6	15.6 15.6	15.6	1	15.6	
26410.272	15.7 15.7 15.7 15.7	14.2 14.1 14.8 14.9	16.5 16.4 16.3 16.2	16.5 16.4	16	1	16	
26412.253	16.2 16.3 15.6 15.6	14.5 14.5 13.8 14.0	16.4 16.3 15.4 15.4	15.8 15.9	15.5	1	15.5	
26413.355	15.5 15.6 15.5 15.6	14.2 14.3 14.0 14.2	16.0 16.0 15.7 15.7	16.4 16.4	15	1	15	
26414.287	16.2 16.2 15.7 15.6	13.6 13.7 14.5 14.5	15.8 15.9 15.9 16.0	16.3 16.4	16	1	16	
26421.249	15.9 16.0 15.8 15.9	13.7 13.5 15.2 15.2	15.5 15.5 15.4 15.4	16.1 16.1	15	1	15	
26426.236	16.1 16.0 16.1 16.0	14.0 14.0 15.4 15.3	15.8 15.8 15.8 15.7	16.3 16.3	15	1	15	
26427.255	15.9 15.9 15.7 15.8	14.4 14.4 15.0 15.2	16.1 16.2 15.7 15.8	16.4 16.4	15	1	15	
26441.229	16.2 16.2 16.2 16.3	13.1 13.0 15.3 15.3	16.0 16.2 16.2 16.3	15.5 15.5	16	1	16	
26444.225	16.2 16.2 15.5 15.8 15.8	13.7 13.7 15.4 15.4	16.2 16.3 15.7 15.8	16.2 16.1	16	1	16	
26453.220	16.0 16.1 15.7 15.8	14.1 14.3 14.2 14.3	16.2 16.2 15.6 15.6	16.8 16.8	16	1	16	

11 plates missing and 4 records.

1934phae.proj. 2448M

	• 2826	• 2795	• 2787	• 2809
	15.5 15.5	16.4 16.5	15.4 15.4	16.3 16.4
	15.5	16.7	15.4	16.5
	15.5 15.5	16.6 16.6	15.5 15.5	16.5 16.5
	15.5	16.6	15.5	16.5
	15.8 15.7	16.4 16.6	15.0 15.1	16.3 16.9
	15.7	16.7	15.1	16.8
8	15.8 15.8	15.8 15.8	14.6 14.6	15.4 15.4 15.4
	15.7 15.7	15.6	14.5	15.8
8	15.5 15.5	15.8 15.8	14.8 14.7	15.8 15.8
	15.5	15.8	14.7	15.8
	15.7 15.7	16.1 16.1	15.7 15.7	16.7 16.7
	15.8	16.1	15.7	16.8
	15.5 15.4	16.8 16.1	14.9 15.0	15.3 15.3
	15.4	16.2	15.0	15.3
	15.6 15.5	16.3 16.3	14.3 14.4	16.1 16.1
	15.5	16.3	14.5	16.1
0	16.0 16.0	16.3 16.4	15.3 15.4	16.5 16.4
	16.1	16.5	15.5	16.3
	16.1 16.1	15.6 15.6	15.4 15.4	16.3 16.3
	16.0	15.6	15.4	16.3
	16.2 16.2	15.9 15.9	15.5 15.5	15.7 15.6
	16.2	15.9	15.5	15.6
	16.3 16.4	16.2 16.0	14.9 14.9	16.4 16.4
	16.6	15.9	14.8	16.4
	16.2 16.1	16.5 16.5	14.4 14.5	15.9 15.9
	16.1	16.5	14.6	15.9
	15.6 15.2 15.2	15.5 15.5	15.4 15.4	15.6 15.6
5.6	15.3	15.4	15.5	15.6
6	15.6 15.6	15.6 15.6	14.8 14.8	15.6 15.6
	15.6	15.6	14.8	15.6
	16.3 16.4	16.6 16.6	15.5 15.5	15.5 15.5
	16.5	16.6	15.5	15.5
	15.4 15.4	15.9 15.8	15.2 15.3	16.3 16.3
	15.4	15.7	15.3	16.3
4	15.9 15.8	16.1 16.1	14.9 14.8	16.2 16.1
	15.7	16.1	14.8	15.9
7	16.2 16.2	16.3 16.2	15.0 15.1	16.3 16.2
	16.1	16.2	15.1	16.2
1	15.4 15.3	16.3 16.3	15.3 15.4	16.2 16.1
	15.3	16.4	15.5	16.1
	15.4 15.4	16.4 16.4	14.6 14.6	16.3 16.3
	15.5	16.4	14.7	16.3
7	15.7 15.7	15.5 15.6	14.7 14.7	16.3 16.3
	15.7	15.6	14.8	16.3
5	16.1 16.1	16.2 16.3	14.9 15.0	16.4 16.4
	16.1	16.3	15.1	16.3
	16.0 16.1	16.1 16.2	15.4 15.4	16.7 16.7
	16.2	16.2	15.4	16.8
8	16.1 16.1	16.2 16.3	14.9 15.0	16.5 16.6
	16.0	16.3	15.2	16.8

15703	2426577.631	16.0 16.0	15.5 15.7	14.2 14.3	15.0 15.0	16.2 16.3	15.3 15.3	16.1 16.2	15.9
15739	26593.615	15.7 15.9	15.6 15.7	13.8 13.8	15.5 15.5	16.2 16.2	16.1 16.2	16.7 16.7	16.3
15748	26594.599	16.2 16.2	15.5 15.6	13.8 13.8	15.0 15.1	16.4 16.4	15.5 15.5	15.9 15.8	15.9
15772	26605.624	16.3 16.3	15.5 15.7	14.3 14.3	14.8 14.8	15.7 15.7	16.0 16.0	16.4 16.4	16.0
15796	26626.518	16.1 16.0	15.7 15.6	14.4 14.4	15.2 15.2	16.1 16.2	15.8 15.8	16.2 16.1	16.2
15806	26635.562	16.0 16.1	15.4 15.4	13.1 13.3	14.1 14.1	16.2 16.1	15.6 15.5	16.2 16.2	16.2
15838	26679.441	16.2 16.2	15.5 15.5	14.5 14.4	14.9 14.8	16.1 16.1	16.2 16.2	16.5 16.4	16.7
15847	26684.383	15.7 15.8	15.5 15.5	13.0 13.1	15.3 15.3	15.8 16.0	15.8 15.9	15.8 15.8	16.2
15851	26686.569	15.9 15.9	15.4 15.5	13.5 13.4	15.4 15.4	15.5 15.7	15.4 15.3	16.4 16.4	15.5
15857	26689.391	16.1 16.2	15.5 15.4	13.6 13.6	15.2 15.2	16.0 16.2	16.1 16.1	16.7 16.8	16.7
15858	26689.546	16.0 16.0	15.4 15.4	13.6 13.7	15.0 15.1	16.2 16.2	16.1 16.2	16.7 16.7	15.5
15872	26710.335	16.2 16.3	15.4 15.4	13.4 13.3	14.0 14.1	16.3 16.4	16.2 16.2	15.6 15.7	16.2
15878	26713.475	16.2 16.2	15.3 15.1	13.6 13.7	15.2 15.2	15.9 15.9	15.5 15.7	16.3 16.2	15.5
16203	26946.623	16.0 15.8	15.3 15.2	14.4 14.2	15.4 15.4	15.8 15.7	16.4 16.3	16.8 16.7	16.1
16221	26956.619	16.2 16.1	15.2 15.3	13.5 13.5	14.4 14.3	15.5 15.5	15.5 15.5	15.9 15.9	16.3
16230	26960.603	15.8 15.8	15.3 15.4	13.8 13.9	14.8 14.8	16.4 16.4	15.1 15.1	16.5 16.6	16.7
16254	26977.615	16.2 16.3	15.4 15.5	13.3 13.3	14.7 14.8	16.3 16.3	15.7 15.8	16.8 16.8	15.9
16271	26988.564	16.3 16.3	15.5 15.4	14.2 14.3	15.4 15.3	16.3 16.3	16.1 15.9	16.7 16.5	16.7
16279	26989.518	15.9 15.8	15.4 15.4	14.0 14.1	15.4 15.4	16.3 16.4	15.7 15.7	16.3 16.4	15.5
16310	27059.353	16.1 15.9	15.1 15.1	14.3 14.4	13.8 13.9	15.6 15.5	15.5 15.5	16.0 16.0	15.7
16361	27310.577	16.2 16.2	15.1 15.1	14.0 14.1	15.2 15.2	15.6 15.8	15.7 15.8	16.2 16.2	16.2
16679	27413.340	16.2 16.2	15.0 14.9	13.8 14.0	15.0 15.1	15.5 15.5	15.6 15.7	16.2 16.2	16.2
16680	27413.374	16.1 16.1	15.2 15.0	13.7 13.8	14.1 14.1	16.2 16.2	16.1 16.1	16.6 16.6	15.9
16681	27421.312	16.2 16.2	15.3 15.3	13.8 13.7	13.9 14.0	16.2 16.2	16.2 16.2	16.4 16.4	15.9
16682	27421.344	16.2 16.2	15.1 15.2	13.8 13.8	13.9 14.1	16.2 16.2	15.2 15.3	15.7 15.7	16.1
16684	27422.272	16.2 16.2	15.2 15.2	13.8 13.8	14.3 14.3	16.2 16.2	15.4 15.4	15.7 15.7	16.1

1934phae.prpj.2448M

• 2826	• 2796	• 2787	• 2809
15.9 15.8	16.4 16.5	15.2 15.2	16.6 16.5
15.6	16.6	15.2	16.5
16.3 16.3	16.2 16.2	15.5 15.5	16.1 15.9
16.2	16.1 16.4	15.4 15.5	15.7
16.3 16.3	16.3 16.3	15.3 15.3	16.3 16.3
15.9 16.0	16.3 16.5	15.3 15.5	15.4 15.4
16.2 16.3	16.2 16.2	15.5 15.6	16.3 16.3
16.3	16.3	15.6	16.2
16.2 16.2	16.3 16.2	15.0 15.0	15.3 15.2
16.3	16.1	15.0	15.2
16.3 16.3	16.2 16.2	14.8 14.7	16.3 16.3
16.3	16.3	14.7	16.3
16.2 16.2	16.5 16.4	15.5 15.5	16.3 16.3
16.1	16.3	15.5	16.3
15.7 15.8	15.9 15.9	15.5 15.5	16.3 16.3
15.9	16.0	15.5	16.4
16.2 16.2	15.6 15.5	15.2 15.2	16.5 16.4
16.2	15.4	15.2 14.8	16.3
15.5 15.5	15.5 15.6	14.9 14.8	16.3 16.4
15.5	15.6	14.8	16.4
16.2 16.2	16.3 16.3	15.4 15.4	16.5 16.5
16.2	16.3	15.4	16.5
15.5 15.4	16.2 16.2	14.8 14.7	15.5 15.7
15.4	16.2	14.7	15.8
16.1 16.1	16.8 16.7	15.4 15.4	15.6 15.5
16.2	16.6	15.4	15.4
16.5 16.4	16.0 15.9	15.4 15.2	15.5 15.5
16.3	15.7	15.1	15.5
16.2 16.2	16.1 16.2	15.7 15.6	16.5 16.5
16.2	16.2	15.5	16.5
15.4 15.4	16.6 16.5	14.9 14.9	16.8 16.6
15.4	16.5	14.8	16.5
16.1 16.1	16.5 16.4	15.0 14.9	16.5 16.3
16.2	16.3	14.8	16.2
16.2 16.2	16.5 16.6	14.9 14.8	16.1 16.2
16.3	15.6	14.8	16.2
15.5 15.7	16.2 16.1	14.9 14.9	15.5 15.5
15.8	16.0	14.9	15.4
15.7 15.8	16.0 16.0	15.1 15.0	16.0 16.0
16.0	16.3	14.9	16.3
16.2 16.2	15.9 15.9	14.9 14.8	16.3 16.1
16.2	16.7	14.7	15.9
16.2 16.3	15.5 15.5	15.0 14.9	16.3 16.4
16.3	15.5	14.9	16.5
15.9 15.9	15.5 15.5	14.8 14.6	16.4 16.4
15.9	15.5	14.5	16.3
15.9 15.9	15.5 15.5	14.8 14.8	16.1 16.1
15.9	15.5	14.8	16.2
16.1 16.2	16.0 16.2	14.7 14.7	15.5 15.4
16.2	16.3	14.3	15.4

		• 2645	• 2677	• 1003	• 1005	• 2745	• 2788	• 2796	• 2796
1668	274274.296	16.0 15.9	15.2 15.1	13.8 14.2	14.5 14.5	16.2 16.2	15.8 15.9	16.5 16.4	16.1
1669	27426.329	15.9	14.9	14.2	14.4	16.2	15.9	16.3	16.0
1669D	27426.363	16.2 16.0	15.0 15.1	14.1 14.1	14.3 14.4	16.1 16.1	16.0 15.9	16.5 16.7	16.0
16691	27426.396	15.9	15.2	14.2	14.5	16.2	15.8	16.8	16.0
16692	27426.448	16.1 16.0	15.2 15.2	14.1 14.1	14.4 14.4	16.1 16.2	15.5 15.6	16.6 16.6	16.0
16693	27426.555	15.9	15.1	14.1	14.4	16.3	15.6	16.7	16.0
16701	27449.273	16.1 16.1	14.8 14.9	14.3 14.3	14.2 14.2	16.1 16.1	15.6 15.7	16.6 16.5	16.0
16702	27449.309	16.0	15.0	14.3	14.3	16.1	15.7	16.5	16.0
16703	27449.339	15.9 16.0	14.9 14.9	13.8 14.1	14.4 14.5	15.9 16.1	15.5 15.6	16.4 16.4	16.0
16704	27449.381	16.1	14.9	14.3	14.6	16.3	15.6	16.5	16.0
16705	27449.434	16.2 16.2	15.3 15.1	14.0 14.2	14.5 14.5	16.2 16.2	15.5 15.5	16.4 16.3	16.0
16706	27449.462	16.1	15.0	14.3	14.4	16.3	15.4	16.3	16.0
16707	27449.533	16.2 16.3	14.9 15.0	14.0 14.1	14.9 15.0	15.9 15.9	15.5 15.4	15.9 15.9	15.0
16708	27449.581	16.3	15.1	14.1	15.0	16.4	15.3	15.9	15.0
16709	27449.622	16.2 16.2	15.1 15.2	14.0 14.0	15.0 15.1	16.3 16.3	15.5 15.5	16.3 16.3	15.0
16710	27449.662	16.3	15.3	14.0	15.2	16.3	15.5	16.3	15.0
16711	27449.702	16.3 16.3	15.0 15.0	13.8 13.8	15.0 15.0	16.3 16.3	15.5 15.4	16.3 16.3	15.0
16712	27449.742	16.3	14.9	13.8	15.0	16.4	15.2	16.3	15.0
16713	27449.782	16.2 16.2	15.4 15.5	14.0 14.0	15.0 15.0	16.1 16.2	15.5 15.5	16.4 16.4	15.0
16714	27449.822	16.2	15.5	14.0	15.0	16.2	15.4	16.4	15.0
16715	27449.862	16.2 16.3	14.9 15.0	13.8 13.8	15.0 15.1	16.2 16.3	15.6 15.6	16.8 16.8	16.0
16716	27449.902	16.4	15.2	13.9	15.2	16.5	15.7	16.7	16.0
16717	27449.942	16.3 16.3	15.0 15.1	13.8 13.9	15.2 15.2	16.3 16.4	15.4 15.5	16.4 16.4	15.0
16718	27449.982	16.4	15.2	13.9	15.2	16.4	15.5	16.4	15.0
16719	27450.022	16.2 16.2	15.1 15.1	14.5 14.4	15.4 15.3	16.2 16.3	15.7 15.6	16.2 16.2	15.0
16720	27450.062	16.2	15.1	14.4	15.3	16.3	15.6	16.2	15.0
16721	27450.102	16.2 16.2	14.9 14.9	14.4 14.5	15.2 15.2	16.2 16.2	16.1 16.1	17.0 16.9	16.0
16722	27450.142	16.2	14.9	14.6	15.2	16.3	16.0	16.5	16.0
16723	27450.182	15.9 16.0	14.9 14.9	14.4 14.4	15.2 15.2	16.2 16.2	16.2 16.2	16.7 16.7	16.0
16724	27450.222	16.1	14.9	14.4	15.2	16.2	16.1	16.7	16.0
16725	27450.262	15.9 15.9	15.2 15.2	14.4 14.4	15.2 15.1	16.2 16.3	16.2 16.3	16.6 16.7	16.0
16726	27450.302	15.9	15.2	14.4	15.0	16.3	16.3	16.7	16.0
16727	27450.342	15.9 15.8	15.2 15.1	14.3 14.3	15.2 15.2	16.1 16.2	16.4 16.4	16.4 16.4	16.0
16728	27450.382	15.6	15.1	14.2	15.2	16.3	16.3	16.4	16.0
16729	27450.422	16.0 16.0	15.1 15.2	14.7 14.6	15.1 15.2	16.2 16.2	16.0 16.1	16.1 16.2	16.0
16730	27450.462	16.0	15.3	14.5	15.3	16.2	16.1	16.3	16.0
16731	27450.502	16.2 16.2	15.2 15.2	14.3 14.4	15.5 15.4	16.2 16.3	15.1 15.1	16.0 16.0	15.0
16732	27450.542	16.2	15.3	14.5	15.3	16.4	15.1	15.9	15.0
16733	27450.582	16.4 16.3	14.5 14.7	14.3 14.4	15.1 15.2	16.2 16.2	15.1 15.1	16.1 16.1	15.0
16734	27450.622	16.3	14.9	14.4	15.2	16.3	15.1	16.2	15.0
16735	27450.662	16.2 16.2	14.9 15.1	14.4 14.5	15.2 15.3	16.2 16.3	15.4 15.3	16.3 16.3	15.0
16736	27450.702	16.3	15.2	14.5	15.4	16.4	15.2	16.3	15.0
16737	27450.742	16.2 16.1	14.8 15.0	14.3 14.4	15.1 15.2	16.2 16.3	15.1 15.1	16.3 16.2	15.0
16738	27450.782	16.2	15.2	14.4	15.3	16.3	15.1	16.2	15.0
16739	27450.822	16.2 16.2	15.0 15.1	14.5 14.5	15.2 15.3	16.1 16.2	15.3 15.2	16.3 16.4	15.0
16740	27450.862	16.2	15.2	14.4	15.3	16.3	15.1	16.5	15.0
16741	27450.902	16.2 16.2	14.9 15.0	14.0 14.2	15.4 15.4	16.2 16.2	15.4 15.3	16.3 16.4	15.0
16742	27450.942	16.3 16.3	15.1 15.1	14.3 14.4	15.2 15.3	15.9 16.0	15.2 15.2	16.2 16.3	15.0
16743	27450.982	16.3	15.2	14.5	15.3	16.1	15.2	16.4	15.0
16744	27451.022	16.2 16.2	15.2 15.2	14.4 14.3	15.2 15.2	15.7 15.8	15.3 15.3	16.2 16.3	15.0
16745	27451.062	16.2	15.3	14.2	15.3	15.8	15.3	16.3	15.0

2826	2795	2787	2809
16.1	16.1	16.0	15.9
15.3	15.3	16.2	16.2
16.1	15.9	15.2	16.2
16.0	16.1	16.2	16.2
15.4	15.4	16.5	16.5
16.1	16.1	15.4	16.5
16.2	16.2	16.2	15.4
15.2	15.2	16.7	16.7
16.1	16.2	15.1	16.8
16.2	16.2	16.1	16.1
15.2	15.3	16.3	16.3
16.2	16.1	15.1	16.3
16.1	16.1	16.3	16.2
16.1	16.1	15.4	16.3
16.2	16.2	16.1	15.2
15.1	15.1	16.3	16.3
16.2	16.1	15.1	16.3
15.7	15.7	15.7	15.8
15.2	15.2	16.3	16.3
15.6	15.8	15.2	16.2
15.5	15.7	15.9	15.5
15.5	15.6	15.5	16.3
16.0	15.6	15.5	16.4
15.7	15.6	15.9	15.8
15.0	15.0	16.6	16.5
15.5	15.7	14.9	16.3
15.8	15.7	15.9	15.8
15.4	15.2	16.2	16.2
15.6	15.7	15.0	16.3
16.2	16.2	16.1	16.0
15.5	15.0	15.1	16.8
16.2	16.0	14.9	16.7
15.5	15.5	16.1	16.1
14.9	15.0	15.4	16.4
15.5	16.0	16.3	16.3
14.9	14.9	16.6	16.6
16.0	16.3	15.0	16.6
16.4	16.3	16.3	14.9
14.8	16.4	16.4	16.4
16.3	16.3	14.6	16.4
16.2	16.2	16.0	16.0
14.4	14.4	16.3	16.2
16.2	15.9	14.4	16.2
16.4	16.4	15.5	15.5
14.5	14.5	16.5	16.5
16.4	16.4	15.5	15.5
14.5	14.5	16.3	16.3
16.3	15.3	14.4	16.3
16.1	16.1	15.5	15.5
14.4	14.4	16.1	16.1
16.1	15.5	14.5	16.1
15.5	15.5	14.0	16.0
14.7	14.6	15.7	15.8
15.5	15.5	16.0	16.0
14.5	14.5	15.5	15.5
15.4	15.3	16.0	16.0
14.5	14.5	15.2	15.2
15.4	15.3	16.2	16.1
14.6	14.4	15.7	15.6
15.3	15.9	14.3	15.4
15.5	15.5	15.9	15.9
14.7	14.5	15.4	15.3
15.5	15.5	16.1	16.0
14.9	14.7	15.4	15.3
15.5	15.5	16.1	16.1
14.5	14.5	15.4	15.4
15.3	15.3	16.2	16.2
14.5	14.4	15.5	15.5
15.3	16.3	14.3	15.4
15.5	15.4	16.2	16.2
14.5	14.5	15.5	15.4
15.3	16.3	14.3	15.4

17225	2427746.482	15.7 15.7	16.2 16.3	14.4 14.5	14.8 14.7	16.3 16.3	15.7 15.9	16.1 16.0	16.3
17228	27747.424	16.2 16.3	16.5 16.4	14.4 14.4	14.7 14.8	15.7 15.7	16.2 16.2	16.8 16.7	16.7
17232	27749.409	16.4 16.4	16.3 16.3	14.5 14.5	14.9 14.9	15.7 15.7	16.2 16.2	16.7 16.7	16.7
17234	27749.489	15.7 15.8	16.2 16.3	14.3 14.4	15.1 15.2	16.4 16.4	15.2 15.3	16.1 16.0	15.7
17239	27750.440	16.0 16.1	16.1 16.2	14.4 14.5	14.9 14.9	16.7 16.6	15.3 15.2	16.3 16.3	15.7
17247	27755.362	16.3 16.3	16.4 16.3	14.7 14.6	14.9 15.0	16.0 16.1	15.5 15.5	16.5 16.5	15.7
17249	27755.452	16.3 16.3	16.3 16.3	14.4 14.4	15.1 15.1	16.2 16.2	15.5 15.5	16.5 16.5	15.7
17268	27786.315	16.1 16.1	16.0 16.0	13.8 13.8	15.0 15.2	15.9 15.9	15.6 15.7	16.1 16.0	15.7
17280	27799.286	16.1 16.1	16.1 16.1	13.8 13.7	15.1 15.2	16.2 16.3	15.7 15.7	16.3 16.3	15.7
17281	27799.331	16.2 16.3	16.1 16.2	13.8 13.7	15.1 15.2	16.2 16.3	15.7 15.7	16.3 16.3	15.7
17292	27799.378	16.3 16.3	16.1 16.1	13.8 13.8	14.9 14.9	16.4 16.4	15.5 15.5	16.7 16.7	16.7
17283	27799.446	16.1 16.1	16.1 16.1	14.3 14.4	14.3 14.3	16.0 16.0	16.1 16.0	16.5 16.4	16.7
17284	27799.482	16.2 16.2	16.1 16.1	14.4 14.4	14.3 14.3	16.0 16.0	15.9 15.9	16.3 16.3	16.7
17285	27799.532	16.0 16.1	15.9 16.0	14.4 14.3	14.3 14.3	15.9 15.9	15.9 15.9	16.4 16.4	16.7
17287	27800.283	16.2 16.2	16.0 16.0	14.3 14.3	14.3 14.3	15.9 15.9	15.9 15.9	16.3 16.3	16.7
17288	27800.320	16.3 16.2	15.9 15.9	14.4 14.4	14.3 14.3	16.2 16.3	16.2 16.1	16.5 16.5	16.7
17289	27800.377	16.2 16.2	16.2 16.3	14.1 14.3	14.3 14.4	15.7 15.8	16.1 16.0	16.3 16.2	16.7
17290	27800.414	16.2 16.2	16.3 16.3	14.5 14.5	14.5 14.5	16.0 16.0	15.9 15.9	16.2 16.2	16.7
17291	27800.472	16.1 16.2	16.1 16.0	14.1 14.3	14.2 14.3	16.1 16.1	16.0 16.0	16.4 16.5	16.7
17292	27800.567	16.3 16.3	16.0 16.0	14.5 14.5	14.4 14.4	16.1 16.1	16.1 16.1	16.5 16.5	16.7
17293	27800.555	16.2 16.2	16.0 16.0	14.4 14.4	14.3 14.4	16.0 16.0	16.0 16.0	16.3 16.4	16.7
17294	27801.283	16.2 16.2	16.0 16.0	14.4 14.4	14.3 14.4	16.0 16.0	16.0 16.0	16.3 16.4	16.7
17295	27801.321	16.2 16.2	16.0 16.0	14.4 14.4	14.3 14.4	16.0 16.0	16.0 16.0	16.3 16.4	16.7
17298	27802.499	16.2 16.2	16.0 16.0	14.4 14.4	14.3 14.4	16.0 16.0	16.0 16.0	16.3 16.4	16.7
17299	27802.552	16.2 16.2	16.0 16.0	14.4 14.4	14.3 14.4	16.0 16.0	16.0 16.0	16.3 16.4	16.7

2526	2795	2787	2809
16.3 16.2	15.4 15.5	15.1 15.1	16.3 16.3
16.2	15.7	15.2	16.2
16.3 16.4	16.5 16.4	15.2 15.3	16.5 16.5
16.5	16.4	15.4	16.5
15.4 15.5	16.7 16.7	15.4 15.4	16.6 16.5
15.5	16.8	15.5	16.4
15.5 15.4	16.4 16.5	15.4 15.4	16.1 16.2
15.3	16.6	15.4	16.2
15.9 15.8	15.6 15.7	15.4 15.3	15.5 15.5
15.7	15.8	15.2	15.5
15.7 15.6	16.3 16.3	14.5 14.5	16.1 16.1
15.5	16.3	14.5	16.1
15.7 15.6	16.2 16.2	14.7 14.5	15.4 15.3
15.6	16.2	14.4	15.3
16.1 16.1	16.0 16.0	14.9 15.0	16.0 15.9
16.2	16.0	15.1	15.7
16.2 16.2	16.5 16.4	14.8 14.8	16.3 16.4
16.1	16.3	14.8	16.4
16.4 16.4	16.5 16.4	14.7 14.6	16.5 16.5
16.4	16.3	14.6	16.4
16.2 16.1	16.4 16.4	14.6 14.5	16.5 16.4
16.1	16.5	14.4	16.4
16.3 16.3	16.5 16.4	14.5 14.5	16.5 16.4
16.3	16.3	14.5	16.3
16.3 16.2	16.6 16.6	14.8 14.8	16.4 16.5
16.2	16.6	14.8	16.7
16.1 16.1	16.4 16.5	14.8 14.7	16.2 16.2
16.2	16.5	14.7	16.3
16.4 16.6	14.6 16.6	14.5 14.4	16.5 16.5
16.7	16.6	14.4	16.5
16.3 16.3	16.7 16.8	14.4 14.3	16.4 16.3
16.3	16.8	14.3	16.2
16.3 16.3	16.5 16.5	14.4 14.4	16.2 16.2
16.4	16.5	14.4	16.2
16.2 16.2	16.4 16.4	14.5 14.6	16.3 16.3
16.2	16.4	14.7	16.4
16.4 16.4	16.5 16.5	14.7 14.6	16.3 16.4
16.3	16.4	14.5	16.4
16.2 16.3	16.4 16.4	14.4 14.4	16.1 16.1
16.3	16.4	14.5	16.1
16.2 16.2	16.3 16.2	14.5 14.5	15.8 15.6
16.2	16.2	14.4	15.4
15.4 15.4	15.9 15.7	14.8 14.8	16.0 16.0
15.3	15.6	14.9	16.0
15.2 15.3	15.9 15.8	14.8 14.7	15.9 16.0
15.3	15.7	14.7	16.1
15.9 15.9	16.2 16.2	14.9 14.8	16.4 16.4
15.9	16.7	14.8	16.4
16.0 16.0	16.3 16.4	14.9 14.9	16.5 16.7
16.0	16.5	15.4	16.4

		• 2645	• 2677	• 1003	• 1005	• 2745	• 2758	• 2796	• 2
17300	2427807.283	16.0 16.2 15.7 15.8	13.4 13.5	15.4 15.4	16.2 16.2	15.7 15.8	16.1 16.1	15	
		16.3	16.0	13.5	15.4	16.3	15.8	16.1	
17301	27807.317	16.3 16.2 16.2 16.3	13.3 13.2	15.3 15.3	16.1 16.2	15.9 15.8	16.3 16.2	16.	
		16.1	16.3	13.7	15.3	16.3	15.7	16.0	
17302	27807.365	16.1 16.2 15.7 15.8	13.4 13.4	15.1 15.3	16.2 16.3	15.9 15.9	16.3 16.3	16.	
		16.3	15.8	13.3	15.5	16.3	15.9	16.2	
17303	27807.397	16.1 16.1 15.7 15.8	13.3 13.2	15.2 15.3	16.4 16.4	16.1 16.1	16.3 16.2	16.	
		16.1	15.9	13.1	15.3	16.4	16.1	16.2	
17304	27807.443	16.3 16.3 16.1 16.2	13.4 13.4	15.4 15.4	16.3 16.4	16.1 16.2	16.3 16.3	15.	
		16.3	16.3	13.4	15.4	16.4	16.3	16.4	1
17305	27807.476	15.9 16.0 16.0 16.0	13.4 13.3	15.1 15.3	15.8 15.8	16.0 16.1	16.0 16.1	16.	
		16.1	16.0	13.3	15.5	16.2	16.2	16.2	
17306	27807.516	16.1 16.1 15.7 15.9	13.4 13.4	15.1 15.2	16.2 16.3	16.0 15.9	16.1 16.0	16.	
		16.2	16.1	13.5	15.3	16.3	15.9	16.0	
17307	27807.549	15.7 ^{defect} 16.3 16.2 16.1	13.3 13.3	15.5 15.4	16.3 16.2	16.0 16.0	16.2 16.3	16.	
		16.3	16.1	13.3	15.4	16.2	15.9	16.3	
17308	27808.282	16.2 16.2 15.8 16.0	13.4 13.4	15.4 15.4	16.8 16.6	16.2 16.3	16.2 16.2	16.	
		16.2	16.1	13.4	15.4	16.4	16.3	16.3	
17309	27808.317	16.2 16.3 15.7 15.7	13.4 13.5	14.3 15.2 15.1	16.2 16.3	16.0 16.1	16.3 16.5	16.	
		16.4	15.7	13.5	15.0	16.3	16.2	16.6	1
17310	27808.365	16.2 16.2 15.7 15.7	13.5 13.4	15.3 15.4	16.8 16.8	16.1 16.1	16.7 16.6	16.	
		16.1	15.8	13.4	15.5	16.7	16.1	16.6	
17311	27808.402	16.1 16.2 15.7 15.8	13.4 13.5	15.4 15.5	16.3 16.5	16.3 16.2	16.5 16.5	16.	
		16.1	15.8	13.4	15.5	16.7	16.1	16.6	
17315	27811.274	16.2 16.1 15.7 15.9	13.7 13.6	15.2 15.3	15.5 15.7	15.7 15.7	15.7 15.8	15.	
		16.2	16.1	13.6	15.4	15.9	15.7	15.7: defect	
18016	28078.413	16.2 16.2 15.2 15.4	13.5 13.5	13.9 14.0	16.4 16.4	16.2 16.2	16.7 16.7	16.	
		16.2	15.5	13.6	14.0	16.3	16.8		
15298	26453.220	16.1 16.0 15.7 15.8	14.3 14.4	14.6 14.5	15.5 15.5	16.1 16.0	16.0 16.1	16.	
		15.9	15.9	14.5	14.4	15.5	15.9	16.1	
15303	26454.217	15.5 15.9 15.8	16.0 15.9	14.4 14.4	14.8 14.8	16.1 16.1	16.1 16.1	15	
		16.0	15.9	14.5	14.8	16.2	16.0	16.4	1
15308	26455.214	16.2 16.1 15.8 15.8	14.4 14.3	14.7 14.5	16.2 16.1	15.5 15.4	16.3 16.5	15.	
		16.0	15.9	14.3	14.4	16.0	15.4	16.7	
15314	26456.214	16.1 16.1 16.0 16.0	14.4 14.5	15.0 15.0	16.2 16.2	15.5 15.5	16.3 16.1	15.	
		16.1	16.0	14.6	14.9	16.1	15.5	16.0	
15631	26565.613	16.1 16.2 15.5 15.5	13.2 13.4	14.4 14.5	16.1 16.2	15.7 15.7	15.6 15.6	16.	
		16.3	15.5	13.5	14.5	16.3	15.7	15.5	
15651	26567.629	16.3 16.3 15.7 15.9	13.6 13.7	14.6 14.6	16.2 16.2	16.2 16.1	16.7 16.6	15.	
		16.3	16.0	13.8	14.5	16.2	16.0	16.3	
15664	26568.622	16.0 16.0 15.5 15.6	13.6 13.6	14.9 14.9	15.7 15.7	15.2 15.1	16.0 16.0	16.	
		16.1	15.7	13.6	14.9	15.6	15.1	16.0	
16672	26570.631	16.3 16.3 15.6 15.6	13.8 13.8	14.8 14.9	16.3 16.2	16.1 16.0	16.8 16.8	16.	
		16.3	15.5	13.8	15.1	16.2	16.0	16.8	
15680	26571.611	16.2 16.1 15.5 15.5	13.7 13.7	15.4 15.4	16.2 16.2	16.2 16.2	16.7 15.9	15.	
		16.0	15.5	13.8	15.5	16.2	16.2	15.8	
15696	26572.627	16.0 16.0 15.4 15.5	14.0 14.2	15.5 15.5	16.4 16.3	15.7 15.7	16.0 16.4	15.	
		16.0	15.5	14.4	15.4	16.3	15.6	16.4	1
15693	26573.635	16.2 16.1 15.5 15.6	14.2 14.2	15.5 15.5	15.7 15.7	15.5 15.5	defect	15.	
		16.1	15.6	14.3	15.5	15.7	15.5	defect	

• 2826	• 2795	• 2787	• 2809
15.7 15.7	16.5 16.5	15.4 15.4	16.6 16.4
15.7	16.5	15.4	16.3
16.3 16.2	16.7 16.7	15.5 15.5	16.6 16.6
16.1	16.6	15.5	16.6
16.2 16.2	16.4 16.5	15.4 15.5	16.6 16.5
16.2	16.6	15.5	16.3
16.2 16.2	16.7 16.6	15.3 15.4	16.5 16.6
16.1	16.6	15.4	16.7
15.9 15.9	16.4 16.4	15.4 15.4	16.4 16.4
15.8	16.4	15.4	16.4
16.1 16.2	16.4 16.4	15.2 15.2	16.4 16.4
16.2	16.4	15.2	16.4
16.1 16.0	16.4 16.3	15.2 15.3	16.5 16.5
15.9	16.3	15.4	16.5
16.2 16.1	16.5 16.4	15.5 15.5	16.6 16.5
16.0	16.4	15.4	16.4
16.2 16.1	16.3 16.3	14.9 15.0	15.4 15.4
16.1	16.4	15.2	15.4
16.2 16.2	16.2 16.2	14.8 15.0	15.5 15.4
16.2	16.3	15.1	15.4
16.7 16.6	16.3 16.3	14.8 15.3	15.4 15.5
16.4	16.3	15.5	15.5
16.4 16.3	16.2 16.2	15.0 15.1	15.5 15.5
16.3	16.2	15.3	15.5
15.5 15.4	16.7 16.7	14.4 14.4	16.2 16.0
15.4	16.7	14.4	15.8
16.2 16.3	16.7 16.5	15.4 15.2	16.5 16.6
16.3	16.3	15.0	16.6
16.2 16.2	16.5 16.5	15.2 15.3	15.9 15.9
16.2	16.6	15.4	15.9
15.5 15.5	16.3 16.4	15.2 15.2	16.2 16.4
15.5	16.4	15.2	16.5
15.6 15.6	15.8 15.7	15.4 15.4	on hold -
15.5	15.5	15.5	-
15.7 15.9	16.2 16.2	15.5 15.5	16.2 16.1
16.0	16.3	15.4	16.0
16.2 16.2	16.1 16.1	14.8 14.8	16.2 15.9 15.7
16.2	16.2	14.8	15.4
15.4 15.4	16.6 16.6	15.2 15.2	16.5 16.5
15.4	16.7	15.3	16.5
16.0 16.0	15.7 15.7	15.3 15.4	16.2 16.1
15.9	15.8	15.5	16.1
16.3 16.5	16.2 16.4	15.5 15.5	15.5 15.4
16.7	16.5	15.5	15.4
15.9 15.9	16.5 16.5	15.4 15.5	16.2 16.3
15.8	16.6	15.5	16.3
15.6 15.6	16.2 16.0	15.4 15.4	16.5 16.4
15.5	15.9	15.3	16.3
15.8 15.9	15.9 16.1	15.1 15.1	16.2 16.2
15.9	16.3	15.2	16.3

32A

		3.6066	$p = 118.5$	5.86862	$p = 47.7$	4.8806	$p = 25.61$	
		2472	2447	2425	2450	953	951	
130	2413847.841	Σ16.1 16.1	13.8 13.9	16.2 16.1	14.3 14.3	13.4 13.5	Σ16.1 16.1	14.1 14.1
		Σ16.1	13.9	16.1	14.4	13.5	Σ16.1	14.2
157	13875.808	15.7 15.7	13.4 13.4	15.8 15.8	13.9 14.0	12.8 12.8	16.3 16.3	13.9 14.0
		15.7	13.3	15.9	14.1	12.8	16.3	14.1
2188	13894.750	16.3 16.3	12.8 12.8	16.2 16.1	14.0 14.0	13.4 13.5	16.3 16.3	14.0 14.0
		16.4	12.8	16.0	13.9	13.6	16.2	14.0
2198	13946.555	16.5 16.6	13.2 13.3	15.9 16.0	13.9 13.9	13.8 13.8	16.3 16.4	14.1 14.2
		16.6	13.4	16.0	13.9	13.9	16.4	14.2
2202	13948.574	16.0 16.0	13.2 13.3	16.0 16.0	13.9 13.9	13.8 13.8	Σ16.1 16.1	13.8 14.0
		Σ16.1	13.3	16.1	13.9	13.8	Σ16.1	14.2
2203	13951.594	16.5 15.9	13.4 13.4	15.8 15.9	14.2 14.3	14.0 14.0	16.3 16.4	14.1 14.1
		16.0	13.4	15.9	14.4	14.0	16.5	14.2
2207	13954.583	16.3 16.3	13.4 13.4	15.8 15.8	14.0 14.1	12.8 13.9	17.0 17.0	14.1 14.0
		16.3	13.4	15.8	14.1	13.9	16.9	14.0
2209	13956.77	16.3 16.3	13.4 13.4	16.4 16.4	14.3 14.1	13.7 13.6	16.2 16.1	14.1 14.1
		16.3	13.4	16.3	13.9	13.6	16.0	14.2
2960	14391.541	15.8 15.7	12.8 12.8	15.8 15.9	14.3 14.2	12.5 12.5	15.8 15.8	14.2 14.2
		15.7	12.8	15.9	14.2	12.6	15.9	14.3
7096	16814.656	16.3 16.3	13.8 13.8	16.5 16.5	13.9 13.9	13.9 14.0	16.7 16.7	14.4 14.4
		16.3	13.5	16.5	13.9	14.0	16.6	14.4
7098	16816.644	16.5 16.6	13.5 13.6	15.6 15.7	14.0 14.0	14.3 14.3	16.0 16.0	14.5 14.5
		16.6	13.7	15.8	14.0	14.4	16.0	14.5
7099	16816.768	16.4 16.5	13.4 13.4	15.5 15.4	13.8 13.9	14.0 14.1	15.8 15.7	14.4 14.4
		16.6	13.4	15.4	13.9	14.2	15.6	14.4
7101	16820.567	16.3 16.3	13.3 13.3	16.5 16.5	13.8 13.7	13.7 13.8	16.4 16.5	14.3 14.3
		16.3	13.4	16.5	13.6	13.8	16.6	14.2
7102	16820.651	16.5 16.4	13.5 13.4	16.2 16.2	13.9 13.8	13.9 13.9	17.0 17.0	14.3 14.3
		16.3	13.4	16.2	13.8	13.9	16.9	14.3
7103	16820.747	16.8 16.6	13.8 13.6	15.8 15.9	13.9 13.9	13.9 13.9	17.0 16.8	14.4 14.4
		16.4	13.4	16.0	14.0	13.9	16.5	14.5
7104	16820.838	16.3 16.3	13.7 13.7	16.0 15.9	13.8 13.8	13.8 13.8	16.8 16.9	14.4 14.5
		16.4	13.9	15.8	13.8	13.8	16.9	14.5
7114	16823.638	16.3 16.3	13.8 13.8	15.7 15.8	13.9 13.8	13.8 13.9	16.4 16.5	14.3 14.4
		16.3	13.9	15.9	13.8	13.9	16.6	14.4
7123	16855.573	16.1 16.0	12.9 12.9	16.3 16.3	14.0 14.0	13.8 13.8	16.2 16.2	14.2 14.3
		16.0	12.8	16.3	14.0	13.8	16.1	14.3
7125	16856.557	16.6 16.5	12.8 12.8	15.8 15.8	13.8 13.9	13.8 13.8	15.8 15.8	14.4 14.4
		16.5	12.8	15.8	14.0	13.8	15.8	14.4
8211	17590.584	15.8 15.8	12.6 12.6	15.6 15.5	13.8 13.8	12.9 12.8	Σ16.4 16.3	14.5 14.6
		15.8	12.5	15.5	13.8	12.8	16.2	14.6
8561	17933.607	16.2 16.2	12.8 12.9	15.4 15.7	14.2 14.1	12.8 12.8	16.3 16.3	14.3 14.3
		16.3	12.9	16.0	14.0	12.8	Σ16.4	14.4
10625	19690.649	Σ15.3 15.3	13.4 13.4	Σ15.3 15.3	14.3 14.3	13.4 13.8	Σ15.3 15.3	14.3 14.4
		Σ15.3	13.4	Σ15.3	14.3	13.9	Σ15.3	14.4
11586	21154.744	Σ16.1 16.1	12.8 12.8	15.8 15.9	14.2 14.3	13.2 13.1	Σ16.1 16.1	14.1 14.2
		Σ16.1	12.8	16.0	14.4	13.0	Σ16.1	14.3
12286	23465.600	15.8 15.9	13.8 13.8	15.8 15.8	14.0 14.0	13.8 13.8	16.0 16.0	14.3 14.3
		15.9	13.7	15.9	14.0	13.8	16.0	14.4
12288	23486.545	16.2 16.3	12.9 12.9	15.6 15.7	13.9 13.9	12.8 12.8	16.3 16.3	14.3 14.4
		16.4	12.8	15.8	13.9	12.8	16.3	14.4

3.2234	P ³ 3.252	2361	2310	5603	2.291411	2.524408	2357	2362
2364	2361	2310	5603	2334	2344	2357	2362	
16.3	16.1	16.1	16.1	14.0	14.1	16.1	16.1	15.0
16.2	16.1	16.1	14.1	16.0	16.1	16.1	16.1	15.0
16.0	16.9	16.8	15.9	14.1	14.1	16.0	16.0	16.4
16.0	16.7	15.9	14.1	16.0	16.4	16.4	16.6	15.0
16.8	16.3	16.3	16.0	14.0	14.1	16.0	16.1	17.2
16.8	16.3	16.2	14.2	16.2	16.2	17.2	17.2	14.9
16.0	16.0	16.0	15.9	16.3	16.2	14.0	14.0	16.0
16.0	15.9	16.1	13.9	16.3	16.4	16.0	16.0	15.1
16.1	16.1	16.1	16.1	14.0	14.1	16.1	16.1	14.8
16.1	16.1	16.1	14.2	16.1	16.1	16.1	16.1	14.9
16.9	16.8	17.2	17.2	16.8	16.7	14.0	14.1	16.0
16.7	17.2	16.6	14.1	16.0	16.0	16.6	16.5	17.1
16.3	16.4	16.9	16.9	16.5	16.5	14.0	14.0	15.6
16.5	16.9	16.4	14.0	15.8	15.7	16.9	16.7	16.8
16.0	16.0	16.5	16.6	17.0	17.1	13.7	13.9	17.0
16.0	16.8	17.2	17.1	14.1	14.2	13.9	16.0	16.8
16.0	16.7	17.1	17.1	14.1	14.2	13.9	16.0	16.8
16.0	16.7	17.1	17.1	14.1	14.2	13.9	16.0	16.8
16.8	16.8	16.9	17.0	15.9	15.9	14.2	14.2	16.7
16.9	17.0	15.9	14.2	16.4	16.5	16.8	16.6	17.1
16.4	16.3	16.9	17.1	15.9	15.8	14.2	14.1	15.9
16.3	16.2	16.4	16.4	15.9	15.9	14.1	14.1	15.9
16.2	16.4	15.9	14.1	15.9	16.3	16.3	16.3	14.6
16.7	16.7	16.3	16.4	15.9	15.9	14.1	14.1	15.8
16.8	16.4	15.9	14.1	15.8	15.8	16.0	16.0	16.3
17.0	17.0	16.4	16.5	15.9	15.9	13.9	14.0	15.9
17.1	16.7	15.9	14.1	15.9	16.0	16.0	16.0	16.2
17.1	17.1	16.9	17.0	15.9	15.9	14.0	14.0	15.8
17.2	17.2	15.9	14.0	15.8	15.8	16.1	16.1	17.1
16.9	16.8	16.8	16.8	15.8	15.9	13.9	14.0	15.8
16.8	16.8	16.8	15.8	15.9	15.8	16.4	16.3	16.8
16.8	16.8	16.4	16.5	15.8	15.8	14.0	14.1	16.8
16.8	16.5	15.8	14.1	16.7	16.7	16.3	16.5	17.3
16.9	16.9	17.1	17.2	16.4	16.4	13.5	14.0	13.9
17.0	17.2	16.5	14.1	16.5	16.6	16.8	16.6	16.8
16.8	16.6	16.4	16.4	16.3	16.3	17.2	17.2	14.6
16.4	16.4	16.2	13.8	16.4	16.4	16.3	16.3	17.2
16.5	16.5	16.2	16.3	16.6	16.6	13.5	14.1	14.0
16.5	16.3	17.1	14.0	15.8	15.8	16.0	16.0	16.3
16.1	16.1	16.1	16.1	14.1	14.0	16.0	15.9	16.0
16.1	16.1	16.1	14.0	15.9	16.0	16.0	16.0	16.1
15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3	15.3
15.7	15.7	15.7	14.3	15.7	15.7	15.7	15.7	15.7
15.7	15.7	15.7	14.1	14.2	15.7	15.7	15.7	15.7
15.8	16.1	16.1	14.4	16.1	16.1	16.1	16.1	16.1
15.9	15.9	16.2	16.3	16.4	16.4	16.7	16.5	16.8
16.4	16.4	16.3	16.6	14.2	14.2	16.8	16.8	14.2
16.4	16.8	16.7	13.6	16.0	16.0	16.8	16.8	17.2

1934pnae.proj.2448n

34 A

		2472	2447	2425	2450	953	951	2561
		15.9 15.8 13.3 13.1 15.8 15.8 13.8 13.9	15.8 15.8 13.8 13.9	15.8 15.8 13.8 13.9	15.8 15.8 13.8 13.9	13.3 13.3	16.4 14.5 14.5	14.5
12290	2423487.565	15.8 12.9 15.8 14.0	15.8 14.0	15.8 14.0	15.8 14.0	13.3 16.4	14.5	14.5
12292	23489.538	16.0 16.0 12.9 12.8 15.9 15.9 14.1 14.3	15.9 15.9 14.1 14.3	15.9 15.9 14.1 14.3	15.9 15.9 14.1 14.3	13.3 13.1	16.0 15.9 14.5 14.5	14.5
		16.0 12.8 15.9 14.4	15.9 14.4	15.9 14.4	15.9 14.4	13.1 15.7 15.8	14.6	14.6
12320	23527.509	15.7 15.8 12.8 12.8 15.8 15.7 14.3 14.2	15.8 15.7 14.3 14.2	15.8 15.7 14.3 14.2	15.8 15.7 14.3 14.2	12.5 12.6	16.0 15.8 14.3 14.4	14.4
		15.9 12.9 15.6 14.0	15.6 14.0	15.6 14.0	15.6 14.0	12.7 15.8	14.4	14.4
12326	23529.536	16.5 16.5 12.8 12.8 15.8 15.8 14.3 14.3	15.8 15.8 14.3 14.3	15.8 15.8 14.3 14.3	15.8 15.8 14.3 14.3	12.8 12.8	16.3 16.3 14.4 14.5	14.5
		16.6 12.8 15.8 14.3	15.8 14.3	15.8 14.3	15.8 14.3	12.8 16.4	14.5	14.5
12648	23667.867	15.7 15.7 13.7 13.6 15.5 15.5 13.8 13.9	15.5 15.5 13.8 13.9	15.5 15.5 13.8 13.9	15.5 15.5 13.8 13.9	12.4 12.4	16.3 16.7 14.4 14.4	14.4
		15.7 13.5 15.6 13.9	15.6 13.9	15.6 13.9	15.6 13.9	12.5 16.9	14.4	14.4
12697	23681.879	16.3 16.2 13.4 13.5 15.5 15.4 13.9 13.8	15.5 15.4 13.9 13.8	15.5 15.4 13.9 13.8	15.5 15.4 13.9 13.8	12.9 12.9	17.0 17.0 14.5 14.5	14.5
		16.0 13.5 15.4 13.8	15.4 13.8	15.4 13.8	15.4 13.8	13.0 17.0	14.5	14.5
12699	23682.875	16.0 16.0 13.7 13.6 15.7 15.8 13.9 13.9	15.7 15.8 13.9 13.9	15.7 15.8 13.9 13.9	15.7 15.8 13.9 13.9	13.4 13.4	16.8 16.8 14.4 14.4	14.4
		16.0 13.6 15.9 13.9	15.9 13.9	15.9 13.9	15.9 13.9	13.4 16.8	14.5	14.5
12700	23683.871	16.6 16.5 13.7 13.7 15.9 15.9 13.9 13.9	15.9 15.9 13.9 13.9	15.9 15.9 13.9 13.9	15.9 15.9 13.9 13.9	13.4 13.5	15.7 15.8 14.6 14.7	14.7
		16.5 13.7 15.9 13.8	15.9 13.8	15.9 13.8	15.9 13.8	13.6 15.8	14.7	14.7
12782	23705.769	16.3 16.3 13.6 13.5 15.8 15.7 13.9 14.0	15.8 15.7 13.9 14.0	15.8 15.7 13.9 14.0	15.8 15.7 13.9 14.0	13.7 13.6	16.3 16.3 14.4 14.4	14.4
		16.3 13.4 15.7 14.0	15.7 14.0	15.7 14.0	15.7 14.0	13.6 16.2	14.4	14.4
12788	23706.770	16.3 16.4 13.0 13.1 15.8 15.8 13.7 13.6	15.8 15.8 13.7 13.6	15.8 15.8 13.7 13.6	15.8 15.8 13.7 13.6	13.7 13.7	16.3 16.4 14.3 14.3	14.3
		16.4 13.3 15.9 13.5	15.9 13.5	15.9 13.5	15.9 13.5	13.8 16.4	14.5	14.5
12830	23732.675	15.8 15.7 12.8 12.7 15.8 15.8 13.8 13.8	15.8 15.8 13.8 13.8	15.8 15.8 13.8 13.8	15.8 15.8 13.8 13.8	13.2 13.2	15.7 15.7 14.4 14.4	14.4
		15.7 12.6 15.8 13.8	15.8 13.8	15.8 13.8	15.8 13.8	13.3 15.8	14.5	14.5
12834	23734.801	16.3 16.2 12.8 12.8 15.9 15.9 13.9 13.9	15.9 15.9 13.9 13.9	15.9 15.9 13.9 13.9	15.9 15.9 13.9 13.9	13.6 13.5	16.3 16.3 14.5 14.5	14.5
		16.2 12.8 15.9 13.8	15.9 13.8	15.9 13.8	15.9 13.8	13.5 16.3	14.6	14.6
12848	23737.847	16.3 16.3 13.2 13.0 15.4 15.4 13.9 13.9	15.4 15.4 13.9 13.9	15.4 15.4 13.9 13.9	15.4 15.4 13.9 13.9	13.8 13.8	15.8 15.8 14.5 14.6	14.6
		16.3 12.8 15.4 13.9	15.4 13.9	15.4 13.9	15.4 13.9	13.9 15.8	14.6	14.6
12851	23738.788	16.7 16.5 12.8 12.8 15.4 15.6 13.8 13.8	15.4 15.6 13.8 13.8	15.4 15.6 13.8 13.8	15.4 15.6 13.8 13.8	13.8 13.7	16.3 16.3 14.3 14.4	14.4
		16.4 12.8 15.8 13.9	15.8 13.9	15.8 13.9	15.8 13.9	13.5 16.3	14.5	14.5
12855	23740.770	16.0 15.9 12.8 12.8 15.7 15.7 14.0 13.9	15.7 15.7 14.0 13.9	15.7 15.7 14.0 13.9	15.7 15.7 14.0 13.9	13.6 13.7	17.0 16.9 14.4 14.5	14.5
		15.8 12.7 15.8 13.8	15.8 13.8	15.8 13.8	15.8 13.8	13.8 16.8	14.5	14.5
12859	23741.834	16.4 16.6 13.1 13.0 16.0 15.9 13.8 13.8	16.0 15.9 13.8 13.8	16.0 15.9 13.8 13.8	16.0 15.9 13.8 13.8	13.9 13.9	16.6 16.8 14.5 14.5	14.5
		16.9 12.9 15.8 13.8	15.8 13.8	15.8 13.8	15.8 13.8	13.9 17.0	14.5	14.5
12865	23752.638	16.0 16.1 12.8 12.8 15.3 15.4 13.7 13.7	15.3 15.4 13.7 13.7	15.3 15.4 13.7 13.7	15.3 15.4 13.7 13.7	13.9 13.8	15.7 15.8 14.4 14.4	14.4
		16.2 12.8 15.4 13.8	15.4 13.8	15.4 13.8	15.4 13.8	13.8 15.8	14.5	14.5
12860	23875.551	16.1 16.1 12.8 12.7 15.8 15.7 13.7 13.6	15.8 15.7 13.7 13.6	15.8 15.7 13.7 13.6	15.8 15.7 13.7 13.6	13.4 13.5	16.1 16.2 14.5 14.5	14.5
		16.1 12.7 15.7 13.4	15.7 13.4	15.7 13.4	15.7 13.4	13.7 16.2	14.5	14.5
12883	23876.529	15.3 15.3 12.8 12.8 15.3 15.3 13.8 13.9	15.3 15.3 13.8 13.9	15.3 15.3 13.8 13.9	15.3 15.3 13.8 13.9	13.2 13.3	15.3 15.3 14.6 14.6	14.6
		15.3 12.8 15.3 13.9	15.3 13.9	15.3 13.9	15.3 13.9	13.7 16.6	14.5	14.5
12901	23900.501	16.3 16.3 13.5 13.4 15.7 15.8 13.7 13.8	15.7 15.8 13.7 13.8	15.7 15.8 13.7 13.8	15.7 15.8 13.7 13.8	13.7 13.6	16.6 16.5 14.5 14.5	14.5
		16.3 13.5 15.7 13.8	15.7 13.8	15.7 13.8	15.7 13.8	13.6 16.4	14.6	14.6
12919	23907.499	16.1 16.1 13.4 13.3 15.7 15.7 13.8 13.8	15.7 15.7 13.8 13.8	15.7 15.7 13.8 13.8	15.7 15.7 13.8 13.8	12.4 12.3	16.1 16.1 14.4 14.5	14.5
		16.1 13.4 15.7 13.8	15.7 13.8	15.7 13.8	15.7 13.8	12.3 16.1	14.5	14.5
13095	24051.819	16.3 16.3 13.7 13.7 15.9 15.9 13.8 13.8	15.9 15.9 13.8 13.8	15.9 15.9 13.8 13.8	15.9 15.9 13.8 13.8	12.7 12.7	16.4 16.4 14.5 14.4	14.4
		16.3 13.7 15.8 13.8	15.8 13.8	15.8 13.8	15.8 13.8	12.7 16.4	14.4	14.4
13108	24056.833	16.0 16.2 13.9 13.9 15.7 15.7 13.8 13.8	15.7 15.7 13.8 13.8	15.7 15.7 13.8 13.8	15.7 15.7 13.8 13.8	12.8 12.8	16.6 16.5 14.2 14.3	14.3
		16.3 13.9 15.7 13.8	15.7 13.8	15.7 13.8	15.7 13.8	12.8 16.6	14.2	14.2
13111	24065.804	16.3 16.3 13.6 13.5 15.8 15.9 13.9 13.8	15.8 15.9 13.9 13.8	15.8 15.9 13.9 13.8	15.8 15.9 13.9 13.8	13.3 13.4	16.2 16.2 14.4 14.5	14.5
		16.3 13.4 16.0 13.8	16.0 13.8	16.0 13.8	16.0 13.8	13.5 16.2	14.5	14.5
13129	24081.749	16.2 16.3 12.9 12.8 15.9 15.8 13.8 13.7	15.9 15.8 13.8 13.7	15.9 15.8 13.8 13.7	15.9 15.8 13.8 13.7	13.8 13.8	16.3 16.2 14.3 14.3	14.3
		16.3 12.8 15.8 13.7	15.8 13.7	15.8 13.7	15.8 13.7	13.9 16.2	14.3	14.3

17.2	17.2	17.1	17.0	16.7	16.7	14.6	13.9	15.8	15.8	15.9	16.0	17.0	17.1	14.1	14.1
17.2		16.9		16.7		13.8		15.9		16.0		17.2		14.1	
16.7	16.5	16.4	17.2	17.1	16.6	16.7	13.5	13.5	16.4	16.4	16.3	16.3	17.3	17.2	17.1
16.2		16.9		16.8			13.5		16.4		16.4		16.8		14.0
16.3	16.4	16.4	16.4	17.1	17.1	13.6	13.6	16.4	16.4	16.3	16.3	16.4	16.4	13.9	14.0
16.4		16.4		17.1		13.6		16.4		16.3		16.3		14.2	
16.8	16.8	17.0	17.0	—	—	13.6	13.8	15.6	15.7	16.8	16.8	16.4	16.4	13.8	14.0
16.8		16.9		17.1		14.0		15.8		16.8		16.8		14.2	
16.8	16.7	17.2	17.1	17.1	17.1	14.2	14.1	16.4	16.5	16.8	16.6	17.1	17.2	13.2	13.3
16.6		16.9		17.1		14.1		16.5		16.5		17.2		13.5	
16.0	16.1	17.2	17.2	17.1	17.1	14.0	14.0	16.3	16.3	16.0	16.0	17.2	17.2	13.7	13.8
16.2		17.2		17.1		14.0		16.3		16.0		17.2		13.9	
16.8	16.6	16.2	16.2	17.1	17.1	14.0	14.1	16.4	16.5	16.4	16.4	16.3	16.3	13.5	13.6
16.4		16.3		17.1		14.2		16.6		16.4		16.3		13.6	
17.0	17.0	16.8	16.9	17.1	17.1	14.0	14.0	15.8	15.8	16.8	16.9	17.0	17.1	13.6	13.7
17.0		17.0		17.1		14.1		15.8		16.9		17.1		13.8	
16.3	16.3	16.0	16.0	17.1	17.1	14.0	14.1	16.4	16.3	16.3	16.2	17.0	17.0	13.6	13.5
16.2		16.0		17.1		14.1		16.3		16.2		17.1		13.5	
16.5	16.7	16.5	17.2	17.0	17.1	13.7	13.9	16.4	16.4	16.7	16.5	16.0	16.1	13.5	13.6
16.9		17.2		17.1		14.1		16.5		16.4		16.3		13.6	
16.4	16.4	16.6	16.6	17.1	17.1	14.1	14.1	16.8	16.7	16.2	16.2	16.4	16.8	13.7	13.7
16.3		16.6		17.1		14.1		16.7		16.2		16.8		13.8	
16.7	16.7	16.0	16.1	17.1	17.1	14.2	14.2	16.1	16.2	16.3	16.2	16.6	16.7	13.5	14.1
16.8		16.2		17.1		14.2		16.2		16.2		16.8		14.0	
16.0	16.2	16.4	16.4	16.6	16.6	14.2	14.2	16.2	16.1	16.0	15.9	16.6	16.5	13.5	13.8
16.3		16.4		16.6		14.1		15.9		15.9		16.4		14.0	
16.8	16.9	16.3	16.5	17.1	17.1	14.2	14.2	17.0	17.0	16.4	16.6	16.9	16.9	13.9	13.8
16.9		16.7		17.3		14.2		17.0		17.0		17.0		13.7	
16.3	16.4	17.2	17.2	17.1	17.1	13.9	14.1	15.9	16.0	16.4	16.6	17.1	17.1	13.9	13.8
16.4		17.2		17.1		14.2		16.0		16.8		17.1		13.8	
16.8	16.8	16.6	16.5	17.1	17.1	14.2	14.2	16.7	16.5	16.8	16.6	16.9	16.8	13.7	13.7
16.8		16.4		17.1		14.2		16.3		16.5		16.8		13.7	
15.9	15.9	16.7	16.5	17.1	16.6	14.1	14.2	16.5	16.4	15.9	15.9	16.0	16.1	13.6	13.7
15.9		16.4		16.6		14.3		16.3		15.9		16.1		13.9	
16.0	15.9	16.1	16.1	16.1	16.1	14.2	14.2	16.1	16.1	16.1	16.1	16.1	16.1	13.7	13.7
15.9		16.1		16.1		14.2		16.1		16.1		16.1		13.7	
15.3	15.3	15.3	15.3	15.3	15.3	14.2	14.2	15.3	15.3	15.3	15.3	15.3	15.3	14.0	14.0
15.3		15.3		15.3		14.2		15.3		15.3		15.3		13.9	
16.0	16.0	16.3	16.2	16.6	16.6	13.9	14.0	15.9	15.9	16.6	16.6	16.0	16.2	13.7	13.7
16.0		16.1		16.6		14.0		16.0		16.3		16.3		13.6	
16.0	16.0	16.1	16.1	16.1	16.1	14.1	14.1	16.1	16.0	16.1	16.1	16.1	16.1	13.9	13.8
16.0		16.1		16.1		14.0		16.0		16.1		16.1		13.8	
16.4	16.4	16.6	16.5	15.9	15.9	13.8	14.0	16.4	16.3	16.6	16.5	16.3	16.3	14.1	14.2
16.3		16.5		15.9		14.2		16.3		16.3		16.4		14.3	
16.5	16.0	16.2	16.0	16.0	15.9	15.9	13.9	14.0	16.0	16.1	16.3	16.4	17.1	16.4	16.7
16.0		16.0		15.8		14.0		16.3		16.4		16.6		14.1	
16.0	16.0	17.0	17.0	16.0	16.0	13.9	14.0	16.0	16.0	16.0	15.9	16.6	16.8	14.5	14.5
16.0		17.0		16.0		14.1		16.1		15.9		17.0		14.5	
16.0	16.0	17.1	17.0	17.1	17.1	14.0	14.0	16.7	16.7	16.3	16.2	16.0	16.0	14.2	14.2
16.0		16.9		17.1		14.0		16.7		16.0		16.0		14.2	

		• 2472	• 2447	• 2425	• 2450	• 953	• 951	• 2561
36 A	2424084.690	16.5 16.4 12.8 12.8 15.8 15.7 13.6 13.6 13.8 13.8 16.0 16.1 14.4 14.4	16.3 12.8 15.7 13.5 13.8 16.2 14.4					
3414	24353.890	16.3 16.3 12.9 12.9 15.8 15.8 14.0 13.9 13.0 13.1 16.2 16.2 14.2 14.3	16.3 12.8 15.8 13.9 13.2 16.2 14.4					
13444	24360.895	16.2 16.1 12.9 12.9 15.8 15.8 14.0 14.2 13.8 13.7 17.0 16.9 13.9 14.1	16.0 12.9 15.8 14.3 13.6 16.9 14.3					
13480	24380.812	16.5 16.7 13.4 13.4 15.6 15.6 14.0 14.1 13.3 13.1 16.9 16.9 14.2 14.2	16.9 13.3 15.7 14.2 12.9 16.9 14.3					
13531	24408.850	16.3 16.4 13.8 13.8 16.0 16.0 14.2 14.1 13.4 13.5 16.5 16.6 14.3 14.4	16.5 13.8 16.0 14.0 13.6 16.6 14.5					
13558	24418.800	16.0 16.0 13.4 13.4 15.8 15.8 13.9 14.0 13.9 13.8 16.8 16.8 13.9 14.1	16.0 13.4 15.8 14.1 12.9 16.8 14.2					
13585	24439.798	15.6 15.6 12.8 12.8 16.0 15.7 15.7 12.9 14.2 14.2 12.5 12.5 16.1 16.1 14.0 14.2	15.6 12.8 15.4 14.1 12.5 16.1 14.3					
13607	24462.726	16.2 16.4 12.7 12.6 16.0 16.0 13.9 13.9 13.7 13.7 16.8 16.9 13.9 13.9	16.5 12.5 16.0 13.9 13.8 17.0 13.9					
13623	24561.614	16.0 16.1 13.2 13.5 13.5 15.7 15.9 13.7 13.7 13.1 13.2 17.0 16.9 13.9 13.9	16.1 13.9 16.0 13.8 13.3 16.9 13.8					
13644	24637.498	16.6 16.6 13.4 13.4 16.8 16.7 13.8 13.8 12.4 12.7 16.7 16.6 14.1 14.2	16.5 13.4 16.6 13.7 12.8 16.5 14.3					
14093	24802.831	16.6 16.5 12.7 12.6 15.9 15.8 13.9 13.9 13.8 13.8 16.2 16.2 13.9 13.8	16.3 12.5 15.8 13.9 13.9 16.2 13.8					
14106	24821.605	16.3 16.3 12.8 12.8 15.7 15.8 14.4 14.3 12.8 12.9 16.2 16.2 14.2 14.3	16.3 12.8 15.9 14.3 12.9 16.2 14.4					
14108	24824.683	17.0 16.8 12.9 12.9 15.8 15.9 14.0 14.1 12.7 12.7 16.9 16.8 14.0 13.9	16.6 12.9 16.1 14.2 12.7 16.7 13.9					
14201	25850.638	16.2 16.1 12.9 12.9 15.7 15.7 13.8 13.8 13.5 13.6 16.0 16.0 13.9 13.8	16.0 12.9 16.7 13.9 13.7 16.0 13.8					
14252	25886.589	15.8 15.8 12.8 12.9 15.8 15.7 13.7 13.7 13.5 13.6 16.3 16.3 14.1 14.2	15.9 12.9 15.7 13.7 13.6 16.3 14.3					
14315	25915.512	16.2 16.1 13.7 13.8 15.8 15.5 14.3 14.3 12.9 12.4 12.6 16.2 16.2 14.4 14.3	16.0 13.8 15.4 14.2 12.4 16.3 14.3					
14397	25932.512	16.1 16.1 13.8 13.7 15.8 15.8 13.7 13.9 13.3 13.5 16.9 16.4 16.6 13.7 13.8	16.1 13.7 15.7 14.1 13.7 16.4 13.8					
14485	25997.359	16.3 16.3 12.8 12.8 16.0 15.7 13.6 13.7 13.7 13.7 15.5 15.6 13.1 13.2	16.3 12.8 15.7 13.6 13.7 15.7 13.3					
14531	26011.336	16.5 16.4 12.8 12.8 16.0 15.9 13.7 13.8 12.3 12.3 16.9 16.8 13.3 13.3	16.3 12.8 16.0 15.8 12.7 12.4 16.7 13.4					
14611	26055.216	15.9 15.9 13.9 13.9 15.8 15.8 13.9 13.8 12.8 12.8 16.6 16.6 14.0 14.0	15.9 13.9 15.7 13.8 12.8 16.6 13.9					
14625	26060.243	16.2 16.2 13.7 13.8 15.8 15.9 13.3 13.5 13.3 13.3 15.8 15.9 14.0 13.6	16.2 13.8 16.0 13.6 12.3 16.0 13.5					
14968	26245.582	16.6 16.5 12.9 12.9 16.5 16.5 13.9 14.0 13.3 13.4 16.7 16.7 13.9 14.1	16.5 12.8 16.5 14.4 13.5 16.7 14.3					
14985	26264.557	15.4 15.6 13.4 13.6 16.0 15.9 14.3 14.4 13.3 13.3 16.4 16.5 14.3 14.3	15.8 13.8 15.9 14.4 13.3 16.7 14.4					
15009	26274.482	16.8 16.8 13.3 13.5 15.7 16.0 14.3 14.3 13.9 13.8 16.6 16.7 14.0 14.0	16.8 13.7 16.2 14.2 13.8 16.8 14.0					
15036	26303.577	16.5 16.4 13.9 13.9 16.2 16.2 14.5 14.5 12.5 12.5 16.4 16.6 14.4 14.4	16.4 13.9 16.2 14.5 12.4 16.6 14.5					

2368	2361	2310	5603	2334	2344	2357	2362
15.9 16.0 15.9	16.6 16.6	16.3 16.4	14.2 14.1	16.3 16.3	16.6 16.6	16.6 16.5	14.5 14.5
15.9	16.5	16.4	14.1	16.3	16.5	16.4	14.6
16.0 16.3	16.4 16.6	17.1 17.1	14.2 14.2	16.4 16.6	16.4 16.4	17.1 17.2	13.1 13.5 13.5
16.3 16.4	16.8	17.1	14.1	16.4	16.4	17.2	13.9
16.4 16.5 16.8 16.7	17.0 16.9	17.1 17.1	14.2 14.1	15.9 16.1	16.2 16.2	16.7 16.7	13.2 13.7 13.5
16.9	16.9	17.1	14.1	16.2	16.2	16.8	13.7
16.9 16.5 16.0	17.0 17.1	17.1 17.1	14.1 14.0	16.4 16.4	16.7 16.7	17.2 17.2	13.5 13.6
16.0	17.2	17.1	14.0	16.4	16.6	17.2	13.8
16.0 16.4 16.8	16.7 16.6	16.7 16.9	13.9 14.1	16.5 16.4	16.4 16.4	16.8 16.9	13.8 13.9
16.8	16.5	17.1	14.2	16.4	16.4	17.0	14.1
16.7 17.1 17.0	17.0 17.1	17.1 17.1	14.0 14.1	16.7 16.5	16.4 16.4	16.8 16.8	13.9 14.0
17.1	17.2	17.1	14.2	16.3	16.4	16.8	14.1
17.1 16.7 15.7	15.7 15.7	15.7 15.7	14.1 14.2	15.7 15.7	15.7 15.7	15.7 15.7	14.0 14.0
16.1	16.1	16.1	14.3	15.8	16.0	16.1	14.1
16.3 16.3	16.8 16.8	17.1 17.1	13.9 14.0	15.6 15.7	16.5 16.4 16.6	17.1 17.0	13.7 13.8
16.3	16.7	17.1	14.0	15.9	17.0	17.0	13.9
16.4	16.4 17.2 17.1	17.1 17.1	14.3 13.5	15.9 16.0	16.4 16.6	17.2 17.1	13.8 13.9
16.3	17.0	17.1	13.7	16.0	16.7	17.0	14.1
16.7	16.7 17.0 17.1	15.6 15.7	13.1 13.7 13.5	15.8 15.9	16.2 16.3	17.2 17.1	13.6 13.7
16.8	17.2	15.8	13.8	16.0	16.4	17.0	13.8
16.8	17.0 16.9	17.1 17.1	14.2 14.2	16.7 16.7	16.1 16.2	16.3 16.3	14.2 14.2
16.8	16.9	17.1	14.2	16.8	16.3	16.4	14.2
16.8	17.0	17.1	14.0	16.4 16.4	16.9 16.9	16.9 16.8	14.1 14.1
16.8	17.0	17.1	14.0	16.5	16.8	16.7	14.1
16.7	16.8 16.8 16.6	17.1 17.1	14.1 14.1	16.3 16.3	16.8 16.8	16.7 16.7	14.1 14.0
16.8	16.7	17.1	14.1	16.8	16.9	16.7	14.0
16.3	16.3 17.0 17.1	15.5 15.5	13.8 13.9	16.4 16.4	16.0 16.1	16.3 16.4	13.6 13.7
16.3	17.2	15.6	14.0	16.4	16.3	16.4	13.9
15.9	15.9 17.3 17.3	16.0 16.0	13.5 13.7	16.8 16.9	16.9 16.8	17.2 17.2	14.0 14.0
15.9	17.3	15.9	13.9	17.0	16.8	17.2	14.1
16.0	16.0 17.3 17.3	17.0 16.9	13.9 14.0	17.0 17.0	17.0 16.9	17.3 17.3	14.1 14.1
16.0	17.2	16.8	14.1	17.0	16.8	17.2	14.2
16.4	16.9 17.3 17.0	17.1 17.1	13.1 13.5 13.4	16.4 16.6	16.7 16.7	17.1 17.2	14.2 14.2
16.8	16.8	17.2	13.6	16.7	16.7	17.2	14.3
16.4	16.4 17.2 16.8 16.0	17.1 17.1	13.9 13.9	15.8 15.9	16.4 16.3	16.3 16.4	14.1 14.1
16.3	16.0	17.1	14.0	16.0	16.3	16.5	14.2
16.4	16.5 16.7 16.6	17.1 17.1	13.8 13.9	15.8 15.9	16.4 16.4	17.2 17.2	14.0 14.0
16.5	16.4	17.1	14.0	15.9	16.3	17.2	14.0
16.3	16.3 17.0 16.9	17.1 17.1	14.0 14.0	16.7 16.7	16.5 16.4	17.1 17.1	14.2 14.2
16.3	15.9	17.1	14.1	16.7	16.3	17.0	14.3
16.1	16.0 17.0 17.1	17.1 17.1	13.5 13.7	16.0 16.8 15.9	15.9 15.9	17.1 17.2	14.0 14.0
16.0	17.1	17.1	13.8	16.1 16.1	15.9	17.2	14.0 14.0
16.8	16.9 17.1 17.2	17.1 17.1	13.9 14.0	15.8 15.8	16.9 16.8	17.2 17.1	13.0 13.3
16.9	17.3	17.1	14.0	15.8	16.8	17.1	13.4
16.9	16.9 17.0 16.9	17.1 17.1	13.3 13.5	15.8 15.9	15.9 15.9	16.8 16.6	13.1 13.1
16.9	16.8	17.1	13.7	16.0	16.0	16.5	13.1
16.2	16.3 16.5 16.5	17.1 17.1	14.1 13.9	16.0 16.1	15.9 16.0	16.7 16.8	13.5 13.6
16.4	16.5	17.1	13.8	16.1	16.0	16.9	13.6
16.4	16.4 16.1 16.2	16.6 16.6	14.2 14.0	16.2 16.2	16.4 16.3	16.3 16.3	13.0 13.1
16.5	16.3	17.1	13.9	16.2	16.3	16.4	13.2

14.0

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15039	2426304.355	2472	2447	2425	2450	953	951	2561
15041	26308.518	15.9 15.9	13.7 13.6	16.2 16.3	14.3 14.4	12.7 12.8	16.2 16.2	14.3 14.4
15049	26309.501	15.8	13.5	16.4	14.5	12.8	16.3	14.5
15055	26312.385	16.2 16.2	13.6 13.6	15.6 15.7	14.4 14.4	12.7 12.7	16.8 16.7	14.6 14.6
15060	26313.312	16.2	13.5	15.8	14.5	12.8	16.6	14.6
15062	26319.329	16.5 16.5	13.4 13.4	15.8 15.8	14.2 14.3	12.8 12.6	15.8 15.9	14.5 14.5
15064	26322.343	16.5	13.4	15.7	14.5	12.5	15.9	14.5
15070	26323.337	16.2 16.1	13.7 13.7	16.0 15.9	14.5 14.4	13.4 13.4	16.4 16.4	14.4 14.5
15075	26328.446	16.0	13.7	15.9	14.4	13.4	16.4	14.5
15080	26329.398	16.1 16.1	13.2 13.3	15.7 15.7	14.4 14.5	13.3 13.3	16.1 16.1	14.3 14.2
15083	26330.340	16.1	13.5	15.7	14.5	13.3	16.1	14.2
15086	26334.368	16.1 16.0	13.3 13.2	16.2 16.1	14.4 14.4	13.7 13.5	15.5 15.4	14.5 14.5
15087	26335.447	16.0	13.2	16.0	14.5	13.3	15.7	14.6
15091	26341.332	15.8 15.7	13.1 13.1	15.7 15.6	14.4 14.5	13.9 13.7	16.5 16.5	14.4 14.4
15233	26410.272	15.6	13.2	15.6	14.5	13.5	16.5	14.5
15250	26412.253	16.0 16.0	12.8 12.9	15.6 15.7	14.1 14.2	13.8 13.9	16.2 16.6	14.4 14.5
15254	26413.355	16.0	13.0	15.8	14.3	13.9	16.8	14.6
15264	26421.249	16.2 16.2	12.8 12.8	15.4 15.5	14.3 14.4	13.6 13.8	16.7 16.6	14.3 14.3
15266	26426.236	16.2	12.9	15.6	14.5	12.7	16.4	14.2
15271	26427.255	15.9 15.9	13.0 12.9	15.8 15.9	14.4 14.4	13.8 13.8	15.7 15.6	14.5 14.5
15278	26441.229	15.8	12.9	15.9	14.5	13.8	15.5	14.5
15287	26444.225	15.8 15.8	12.7 12.8	15.9 15.8	14.2 14.1	13.9 14.0	15.9 15.9	14.4 14.4
15293	26452.220	15.7	12.8	15.7	14.1	14.0	15.9	14.5
15298	26453.226	16.3 16.3	12.8 12.9	15.8 15.8	14.4 14.4	13.4 14.2	15.6 15.5	14.4 14.5
		16.3	12.9	15.8	14.5	13.9	16.5	14.5
		16.9 16.7	12.8 12.8	15.9 15.8	14.2 14.3	13.5 13.5	16.3 16.2	14.4 14.3
		16.5	12.8	15.8	14.5	13.6	16.2	14.2
		16.2 16.1	12.7 12.8	16.1 16.1	14.4 14.4	13.9 13.0	16.1 16.1	14.4 14.4
		16.1	12.8	16.2	14.5	13.0	16.1	14.4
		15.5 15.3	12.8 12.8	15.5 15.3	14.5 14.5	12.7 12.7	15.5 15.3	14.6 14.6
		15.3	12.8	15.3	14.5	12.7	15.3	14.5
		16.2 16.1	13.8 13.7	15.7 15.8	14.2 14.3	13.4 13.2	16.6 16.6	14.4 14.4
		16.0	13.5	15.9	14.3	13.0	16.6	14.4
		16.2 16.1	13.7 13.7	15.9 15.9	13.9 14.0	13.3 13.4	15.8 15.7	14.0 14.1
		16.0	13.7	15.9	14.0	13.5	15.7	14.2
		16.0 15.9	13.5 13.4	15.9 15.8	14.0 14.1	13.2 13.3	16.1 16.2	14.0 14.5
		15.9	13.4	15.8	14.2	13.5	16.2	14.5
		16.5 16.6	13.4 13.4	15.4 15.6	13.9 13.9	13.8 13.6	16.3 16.3	14.0 14.2
		16.6	13.4	15.8	13.8	13.5	16.3	14.4
		16.1 15.9	13.5 13.6	16.0 16.0	13.9 14.0	13.7 13.7	16.4 16.1	14.0 14.1
		15.8	13.7	16.0	14.2	13.8	16.1	14.3
		16.3 16.4	13.3 13.5	15.8 15.7	13.8 13.9	13.8 13.7	16.5 16.4	14.2 14.2
		16.4	13.6	15.6	13.9	13.6	16.3	14.1
		15.9 15.9	13.7 13.8	16.7 16.7	14.0 14.1	13.8 13.8	16.0 15.9	14.1 14.1
		16.0	13.8	16.6	14.2	13.8	15.9	14.2
		16.0 16.0	13.3 13.2	15.9 15.8	13.9 14.0	12.7 12.6	15.9 15.8	14.2 14.2
		16.0	13.1	15.7	14.2	12.4	15.7	14.2
		16.8 16.7	13.1 13.0	15.8 15.8	14.0 13.9	12.7 12.6	16.8 16.8	14.1 14.0
		16.6	12.9	15.8	13.9	12.5	16.8	13.8
		15.9 15.8	12.8 12.8	15.8 15.8	13.8 13.8	12.9 12.9	16.2 16.2	14.0 13.9
		15.6	12.8	15.7	13.9	12.9	16.2	13.8
		16.3 16.3	12.7 12.8	16.0 16.1	13.9 14.0	12.9 12.9	16.5 16.4	13.9 13.9

2368	2361	2310	5603	2334	2344	2357	2362
16.9 16.9	17.0 17.0	Σ17.1 Σ17.1	14.0 13.9	16.8 16.7	16.9 16.8	16.3 16.4	13.0 13.2
16.8	16.9	Σ17.1	13.9	16.7	16.7	16.5	13.4
15.8 15.8	16.9 16.9	Σ17.1	14.1 14.0	16.3 16.4	16.8 16.8	16.5 16.6	12.7 12.8
15.9	16.9	Σ17.1	14.0	16.5	16.8	16.7	12.9
16.3 16.3	16.0 16.0	Σ17.1 Σ17.1	14.0 14.0	16.5 16.4	16.3 16.4	16.6 16.6	13.4 13.3
16.4	16.0	Σ17.1	14.0	16.3	16.4	16.6	13.2
16.0 16.0	16.0 16.6	Σ16.1 Σ16.1	13.6 13.7	15.8 15.8	16.0 16.0	Σ16.1 Σ16.1	13.0 13.1
16.0	Σ16.6	Σ16.6	13.8	15.9	16.0	16.2	13.1
Σ15.7 Σ15.7	Σ15.7 Σ15.7	Σ15.7 Σ15.7	14.1 14.1	Σ15.7 Σ15.7	Σ15.7 Σ15.7	Σ15.7 Σ15.7	13.2 13.3
Σ16.1	Σ16.1	Σ16.1	14.2	Σ16.1	Σ16.1	Σ16.1	13.4
16.3 16.3	16.2 16.2	Σ17.1 Σ17.1	13.5 13.6	16.5 16.6	16.5 16.6	16.4 16.4	12.6 12.8
16.3	16.2	Σ17.1	13.7	16.7	16.7	16.5	13.0
16.2 16.1	16.8 16.7	Σ17.1 Σ17.1	13.6 13.8	16.1 16.1	16.0 16.0	17.2 17.2	13.1 13.2
16.0	16.7	Σ17.1	13.9	16.1	16.0	17.2	13.2
16.5 16.6	16.9 16.9	Σ17.1 Σ17.1	13.8 13.9	16.3 16.4	16.3 16.5	16.8 16.8	13.0 13.1
16.7	16.9	Σ17.1	13.9	16.5	16.7	16.8	13.3
16.0 16.1	16.9 17.0	Σ17.1 Σ17.1	13.5 13.6	16.8 16.9	16.4 16.5	16.5 16.5	13.0 13.0
16.2	17.0	Σ17.1	13.8	17.0	16.7	16.5	13.0
16.3 16.4	16.5 16.5	Σ17.1 Σ17.1	14.0 14.1	15.9 15.9	16.3 16.3	17.0 17.1	13.0 13.0
16.4	16.5	Σ17.1	14.3	15.9	16.3	17.1	13.0
16.8 16.9	16.7 16.9	Σ17.1 Σ17.1	13.9 14.0	15.8 15.7	16.0 16.0	16.9 17.0	12.9 12.8
17.1	17.0	Σ17.1	14.1	15.7	15.9	17.1	12.8
15.9 15.8	Σ16.1 Σ16.1	Σ16.1 Σ16.1	13.7 13.9	15.8 15.7	Σ16.1 Σ16.1	16.2 16.4	13.2 13.3
15.8	Σ16.6	Σ16.6	14.1	15.6	Σ16.6	Σ16.6	13.3
16.8 16.8	16.5 16.6	Σ17.1 Σ17.1	13.5 13.7	15.9 16.0	16.2 16.3	16.2 16.8	13.1 13.0
16.8	16.6	Σ17.1	13.9	16.2	Σ16.3	Σ16.7	13.0
16.0 16.0	Σ16.1 Σ16.1	Σ16.1 Σ16.1	14.1 14.0	16.0 16.0	16.0 16.0	Σ16.1 Σ16.1	13.1 13.3
16.0	16.1	Σ16.1	14.0	16.0	16.1	Σ16.1	13.4
Σ15.7 Σ15.7	Σ15.7 Σ15.7	Σ15.7 Σ15.7	14.4 14.2	Σ15.7 Σ15.7	Σ15.7 Σ15.7	Σ15.7 Σ15.7	13.1 13.2
Σ15.3	Σ15.3	Σ15.3	14.0	Σ15.3	Σ15.3	Σ15.3	13.3
16.8 16.8	16.0 16.0	— —	14.1 14.1	15.8 15.9	16.8 16.7	Σ17.1 Σ17.1	13.4 13.2
16.8	16.0	on back	14.0	15.9	16.7	Σ17.1	13.1
16.3 16.1	17.0 17.0	Σ17.1 Σ17.1	13.6 13.8	16.4 16.2	16.4 16.5	16.0 16.1	13.8 13.2 13.0
16.0	17.0	Σ17.1	14.0	16.0	16.4	16.2	13.1
16.6 Σ16.6	16.6 Σ16.6	Σ16.6 Σ16.6	13.6 13.8	Σ16.6 Σ16.6	16.0 16.0	Σ16.6 Σ16.6	13.0 13.1
Σ16.6	16.6	Σ16.6	14.0	16.6	16.0	Σ16.6	13.1
16.5 16.6	16.4 16.3	Σ16.6 Σ16.6	14.0 14.0	15.5 15.6	16.4 16.5	16.1 16.2	13.0 13.0
16.8	16.3	Σ16.6	14.0	15.8	16.6	16.2	12.9
16.0 16.0	Σ16.1 Σ16.1	Σ16.1 Σ16.1	13.8 13.9	16.1 16.1	16.0 16.0	Σ16.1 Σ16.1	13.0 13.0
16.0	Σ16.6	Σ16.6	14.0	16.0	15.9	16.4	13.0
17.2 17.0	16.5 16.6	17.0 17.0	14.0 14.2	16.9 17.0	16.0 16.0	17.2 17.2	12.9 12.9
16.5	16.7	17.0	14.4	17.0	16.0	17.2	12.9
16.3 16.3	16.8 16.4	16.5 16.5	14.1 14.0	16.4 16.5	16.4 16.5	16.3 16.3	12.9 12.9
16.3	16.4	16.5	13.9	16.5	16.5	16.4	12.9
16.0 16.1	Σ16.6 Σ16.6	15.9 15.9	14.2 14.1	16.7 16.6	16.0 16.0	Σ16.6 Σ16.6	13.0 13.1
16.2	16.8	16.0	14.0	16.6	15.9	Σ16.6	13.1
15.9 15.9	16.7 16.7	16.0 16.0	13.8 13.8	16.3 16.3	16.0 16.1	16.5 16.4	12.9 13.0
15.8	16.7	16.0	13.8	16.4	16.2	16.4	13.1
16.8 16.7	16.9 17.0	16.0 16.0	13.9 13.8	15.4 15.9	16.8 16.8	16.9 16.9	13.0 13.0
16.6	17.0	16.0	13.8	15.9	16.8	17.0	13.0
16.6 16.6	16.6 16.6	15.9 16.0	14.0 13.9	16.3 16.2	16.5 16.4	16.9 17.0	13.0 13.1

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• 2472	• 2447	• 2425	• 2450	• 953	• 951	• 2561
16.5 16.5 12.8 12.7 15.9 15.9 13.8 13.9 13.2 13.1 16.5 16.5 13.8 13.9	16.5 16.5 12.8 12.7 15.9 15.9 13.8 13.9 13.2 13.1 16.5 16.5 13.8 13.9	16.5 16.5 12.8 12.7 15.9 15.9 13.8 13.9 13.2 13.1 16.5 16.5 13.8 13.9	16.5 16.5 12.8 12.7 15.9 15.9 13.8 13.9 13.2 13.1 16.5 16.5 13.8 13.9	16.5 16.5 12.8 12.7 15.9 15.9 13.8 13.9 13.2 13.1 16.5 16.5 13.8 13.9	16.5 16.5 12.8 12.7 15.9 15.9 13.8 13.9 13.2 13.1 16.5 16.5 13.8 13.9	16.5 16.5 12.8 12.7 15.9 15.9 13.8 13.9 13.2 13.1 16.5 16.5 13.8 13.9
15303 2426454.217	15308 26455.214	15314 26456.214	15631 26565.613	15651 26567.629	15661 26568.622	15672 26570.631
15680 26571.611	15686 26572.627	15693 26573.635	15703 26577.631	15739 26593.615	15748 26594.599	15772 26605.624
15796 26626.518	15806 26635.562	15838 26679.441	15847 26684.383	15851 26686.569	15857 26689.391	15858 26689.546
15872 26710.335	15878 26713.475	16203 26946.623	16221 26956.619			

• 2365	• 2361	• 2310	• 5603	• 2334	• 2344	• 2357	• 2362
16.2 16.2	16.9 17.1	16.0 16.1	14.1 13.9 14.0	16.2 16.2	16.5 16.3	17.0 17.1	13.0 13.0
16.2	17.2	16.1	13.8	16.2	16.2	17.1	13.0
16.3 16.4	16.4 16.7	16.0 16.0	13.8 13.9	16.1 16.4 16.3	16.4 16.4	Σ16.6 Σ16.6	13.0 13.1
16.5	16.9	16.0	14.0	16.6	16.7	Σ17.1	13.1
16.8 17.0	16.6 16.5	16.6 16.4	13.6 13.8	15.4 15.9	16.0 15.9	16.5 16.6	13.0 13.0
17.2	16.4	16.3	14.0	15.8	15.9	16.8	13.0
16.7 16.6	Σ16.6 Σ16.6	Σ16.6 Σ16.6	14.2 14.1	16.0 16.0	16.0 16.7 16.4	16.7 Σ16.6	13.5 13.6
16.4	Σ16.6	Σ16.6	14.1	16.1	16.3	Σ16.6	13.7
16.4 16.6	17.2 17.2 17.0	Σ17.1 Σ17.1	14.0 14.0	16.9 16.7	16.1 16.2	Σ17.1 17.0	13.6 13.6
16.8	16.7	Σ17.1	14.0	16.6	16.2	17.0	13.6
16.6 16.7	16.8 16.8	Σ17.1 Σ17.1	14.1 14.0	16.0 16.0	16.3 16.3	17.1 17.1	13.5 13.5
16.7	16.8	Σ17.1	14.0	16.0	16.4	17.1	13.5
16.3 16.2	Σ16.6 Σ16.6	Σ16.6 Σ16.6	14.1 14.1	16.3 16.3	16.4 16.4	16.6 16.5	13.4 13.6
16.2	17.1	Σ17.1	14.1	16.3	16.4	16.3	13.6
16.6 16.5	17.0 17.1	Σ17.1 Σ17.1	13.9 13.9	16.3 16.3	16.8 16.8	16.4 16.4	13.1 13.2
16.4	17.2	Σ17.1	13.9	16.3	16.7	16.4	13.2
16.4 16.5	16.5 16.5	Σ17.1 Σ17.1	13.7 13.8	16.7 16.8	15.9 15.9	17.2 17.2	13.4 13.4
16.7	16.5	17.1	13.9	16.8	16.0	17.2	13.4
16.0 16.1	17.0 16.8	Σ17.1 Σ17.1	14.0 14.2	15.9 15.9	16.4 16.4	16.6 16.6	13.5 13.5
16.2	16.7	Σ17.1	14.4	16.0	16.4	16.5	13.6
16.8 16.6	17.2 17.1	Σ17.1 Σ17.1	13.9 14.0	16.4 16.4	16.1 16.0	16.9 16.9	13.5 14.1 13.9
16.5	17.1	Σ17.1	14.1	16.5	16.0	17.0	14.0
16.4 16.6	16.8 16.9	Σ17.1 Σ17.1	13.7 13.8	15.9 15.9	16.3 16.4	16.4 16.4	13.6 13.6
16.8	17.0	Σ17.1	13.9	15.9	16.5	16.3	13.5
17.0 17.1	17.1 17.2	Σ17.1 Σ17.1	14.0 13.9	16.5 16.5	16.8 16.7	17.0 17.1	13.1 13.5 13.4
17.2	17.3	Σ17.1	13.9	16.4	16.5	17.2	13.6
16.1 16.3	16.0 16.2	Σ16.1 Σ16.1	13.8 13.8	16.1 16.2	Σ16.1 Σ16.1	Σ16.1 Σ16.1	13.6 13.7
16.4	16.3	Σ16.6	13.9	16.4	16.2	Σ16.6	13.9
16.9 16.9	17.3 17.3	17.2 17.1	13.6 13.8	Σ17.1 16.0 16.2	16.1 16.2	16.3 16.4	13.6 13.6
16.9	17.2	17.1	14.0	16.4	16.4	16.5	13.7
16.3 16.4	16.5 16.6	Σ17.1 Σ17.1	13.7 13.8	16.0 16.0	16.0 15.9	16.4 16.3	13.4 13.5
16.4	16.6	Σ17.1	13.9	16.0	15.9	16.3	13.6
15.9 15.9	17.2 17.2	17.2 17.2	14.1 13.9	16.2 16.3	16.7 16.8	16.0 16.0	14.0 13.9
16.0	17.2	17.1	13.8	16.4	16.8	16.0	13.9
16.8 16.8	16.9 16.9	Σ17.1 Σ17.1	14.1 14.0	16.9 16.9	16.6 16.5	16.9 17.0	14.1 14.2
16.8	16.9	Σ17.1	13.9	16.8	16.5	17.0	14.2
16.3 16.2	16.0 16.0	Σ17.1 Σ17.1	14.2 14.1	15.8 15.8	16.4 16.6	17.2 17.1	14.1 14.1
16.0	16.0	Σ17.1	14.0	15.8	16.7	17.1	14.1
16.1 16.1	16.9 16.9	Σ17.1 Σ17.1	13.9 13.9	16.5 16.5	16.3 16.4	16.9 16.8	14.2 14.2
16.0	16.8	Σ17.1	13.9	16.5	16.5	16.8	14.2
16.0 16.0	16.9 17.0	Σ17.1 Σ17.1	14.1 14.0	16.7 16.7	16.3 16.4	17.2 17.2	14.2 14.1
16.0	17.2	Σ17.1	14.0	16.7	16.5	17.2	14.1
16.9 16.8	16.3 16.3	Σ17.1 Σ17.1	14.0 14.1	15.8 15.9	16.3 16.6	17.1 17.1	14.1 14.1
16.4 16.7	16.3	Σ17.1	14.1	16.0	16.8	17.2	14.1
16.9 16.8	16.4 16.6	Σ17.1 Σ17.1	13.8 13.8	16.8 16.8	16.3 16.3	17.2 17.1	14.1 14.2
16.7	16.8	Σ17.1	13.8	16.9	16.4	17.0	14.2
16.1 16.2	16.0 16.2	Σ17.1 Σ17.1	14.0 14.0	16.7 16.5	16.3 16.2	16.0 16.2	13.5 13.7
16.3	16.4	Σ17.1	14.0	16.4	16.2	16.4	13.8
16.0 16.0	16.2 16.3	Σ17.1 Σ17.1	13.7 13.8	16.8 16.7	16.4 16.4	16.8 16.8	13.2 13.4
16.0	16.4	Σ17.1	13.9	16.6	16.4	16.9	13.6

12 A

		• 2472	• 2447	• 2425	• 2450	• 953	• 951	• 2561
16230	2426960.603	15.9 15.9	13.1 13.0	16.0 15.9	14.3 14.4	13.8 13.8	16.4 16.4	14.2 14.3
		16.0	12.8	15.8	14.4	13.8	16.3	14.4
16254	26977.615	16.8 16.7	13.4 13.3	15.8 15.8	14.3 14.4	12.8 12.8	16.7 16.7	14.4 14.4
		16.6	13.2	15.8	14.5	12.8	16.6	14.4
16271	26988.564	16.8 16.7	13.5 13.5	15.8 15.7	14.1 14.2	13.7 13.7	15.8 15.9	14.5 14.6
		16.6	13.4	15.6	14.3	13.7	16.0	14.6
16279	26989.568	15.5 15.6	13.4 13.4	15.4 15.6	14.1 14.3	13.4 13.4	16.4 16.4	14.3 14.3
		15.7	13.3	15.7	14.4	13.5	16.7	14.3
16310	27059.355	16.2 16.2	12.8 12.8	15.7 15.7	14.4 14.3	13.1 13.0	16.7 16.7	14.3 14.3
		16.2	12.8	15.6	14.2	12.9	16.8	14.4
16561	27310.577	15.9 15.8	12.8 12.7	16.0 15.8	13.9 13.9	12.5 12.7	15.9 15.8	14.3 14.3
		15.8	12.6	15.7	13.9	12.8	15.8	14.3
16679	27413.346	16.3 16.3	12.7 12.5	16.4 16.6	13.7 13.7	13.1 13.2	16.0 16.0	13.8 13.8
		16.3	12.4	16.8	13.7	13.4	16.0	13.8
16680	27413.374	16.6 16.5	12.7 12.8	16.5 16.7	13.8 13.8	13.7 13.6	16.0 16.1	14.1 14.0
		16.5	12.8	17.0	13.9	13.5	16.2	14.0
16681	27421.312	16.5 16.9	12.9 12.8	15.7 15.7	13.4 13.6	13.5 13.4	16.5 16.4	14.3 14.1
		16.4	12.7	15.7	13.8	13.7	16.4	13.9
16682	27421.344	16.1 16.1	12.5 12.5	15.9 15.8	13.7 13.7	13.5 13.6	16.1 16.1	13.9 14.1
		16.1	12.4	15.7	13.8	13.7	16.1	14.3
16684	27422.172	15.8 15.9	12.4 12.6	15.9 15.9	13.8 13.8	13.8 13.8	15.7 15.7	14.1 14.1
		15.9	12.8	16.0	13.7	13.8	15.8	14.2
16688	27426.296	15.7 15.8	12.8 12.6	15.6 15.8	13.9 13.9	13.7 13.8	16.3 16.3	14.0 14.2
		15.8	12.5	15.9	13.8	13.9	16.3	14.3
16689	27426.329	15.9 15.9	12.4 12.5	15.5 15.6	13.8 13.8	13.8 13.8	16.4 16.4	14.2 14.1
		16.0	12.5	15.7	13.9	13.8	16.3	14.0
16690	27426.363	15.9 16.0	12.7 12.8	15.9 15.8	13.9 13.9	13.8 13.9	16.8 16.8	13.7 14.0
		16.0	12.8	15.7	14.0	13.9	16.8	14.1
16691	27426.396	15.9 15.9	12.8 12.7	15.5 15.8	13.8 13.8	13.9 13.9	16.3 16.5	14.4 14.3
		15.9	12.6	15.7	13.9	13.9	16.6	14.3
16692	27426.448	15.4 15.9	12.6 12.5	15.7 15.7	13.6 13.7	13.7 13.8	16.7 16.6	14.0 13.9
		15.8	12.4	15.8	13.7	13.8	16.6	13.8
16693	27426.555	15.4 15.8	12.4 12.3	15.8 15.8	13.7 13.8	13.7 13.8	16.8 16.7	14.0 14.0
		15.7	12.2	15.8	13.9	13.9	16.5	13.9
16701	27449.273	16.1 16.1	12.7 12.8	15.7 15.7	13.8 13.8	13.2 13.2	16.1 16.1	13.8 14.0
		16.4	12.9	15.7	13.9	12.7	15.9	14.2
16702	27449.307	16.3 16.3	12.9 12.9	15.9 15.8	13.7 13.8	12.9 13.0	16.4 16.4	13.9 13.9
		16.3	12.9	15.8	13.9	13.1	16.4	14.0
16703	27449.339	16.8 16.7	12.9 12.9	15.8 15.8	13.8 13.9	12.8 12.7	16.7 16.6	13.9 13.9
		16.6	12.8	15.8	13.9	12.6	16.5	13.9
16704	27449.381	16.4 16.4	12.9 12.8	15.8 15.7	13.9 13.8	12.5 12.7	16.5 16.4	14.1 14.0
		16.5	12.8	15.7	13.8	12.8	16.4	13.9
16705	27449.434	16.4 16.4	12.7 12.8	15.7 15.8	13.7 13.7	12.4 12.4	16.5 16.5	14.0 14.0
		16.5	12.9	15.8	13.7	12.5	16.4	13.9
16706	27449.462	16.1 16.1	12.8 12.9	15.5 15.5	13.6 13.6	12.3 12.3	16.1 16.1	14.2 14.3
		16.1	12.9	15.5	13.6	12.4	16.1	14.3
16707	27454.363	16.2 16.2	13.1 13.2	16.4 16.5	13.6 13.7	12.8 12.9	16.6 16.6	14.1 14.2
		16.3	13.3	16.7	13.8	13.0	16.5	14.2
16712	27456.276	16.5 16.4	13.4 13.2	15.6 15.6	13.7 13.9	13.6 13.9	16.0 16.0	14.4 14.3
		16.3	13.0	15.7	14.0	13.8	16.0	14.3

• 2368	• 2361	• 2310	• 5603	• 2334	• 2344	• 2357	• 2362
16.4 16.4	16.5 16.9	17.1 17.1	14.1 14.1	16.8 16.8	16.7 16.6	16.9 17.0	13.4 13.6
16.4	16.8	17.2	14.1	16.8	16.5	17.1	13.9
16.1 16.3	16.5 17.0	17.1 17.1	14.2 14.1	15.7 15.8	16.0 16.1	16.0 16.0	13.8 13.6
16.5	16.6	17.1	14.0	15.8	16.2	16.0	13.4
16.0 16.1	16.5 16.7	17.1 17.1	14.0 14.0	16.2 16.3	16.3 16.3	16.3 16.3	13.3 13.5
16.2	16.9	17.1	13.9	16.4	16.4	16.4	13.7
16.0 16.5	16.2 16.2	17.1 17.1	13.8 13.8	16.1 16.5	16.3 16.4	17.2 17.2	13.5 13.3
16.5	16.3	17.1	13.8	16.7	16.6	17.1	13.2
16.0 16.0	16.7 16.8	15.5 15.5	14.0 14.0	16.5 16.5	16.4 16.3	16.8 16.9	13.6 13.8
16.0	16.9	15.5	14.0	16.5	16.1	17.0	13.5
16.1 16.1	16.1 16.1	16.1 16.1	14.0 14.1	15.8 15.9	16.1 16.2	16.1 16.1	14.2 14.3
16.1	16.1	16.1	14.1	16.0	16.2	16.1	14.4
16.9 16.8	16.8 16.9	17.1 17.1	14.2 14.2	16.0 15.9	16.0 15.9	16.5 16.7	14.0 14.1
16.8	16.9	17.1	14.1	15.9	15.9	16.8	14.1
16.9 16.8	17.0 17.1	17.1 17.1	13.9 13.8	15.8 15.8	16.7 16.3	16.3 16.3	13.8 13.9
16.7	17.2	17.1	13.7	15.8	16.2	16.3	14.0
15.9 15.9	16.0 16.0	17.1 17.1	14.0 14.1	16.1 16.3	16.0 16.0	17.1 17.0	14.1 14.0
16.0	15.9	17.1	14.2	16.5	16.0	16.8	13.8
15.9 16.0	15.9 15.9	15.7 15.7	14.1 14.1	15.7 15.7	15.7 15.7	15.7 15.7	14.0 14.1
16.0	15.9	16.1	14.2	16.0	16.1	16.4	14.2
16.3 16.9	16.6 16.6	16.6 16.6	13.6 13.8	16.0 16.2	16.3 16.4	16.2 16.3	14.0 14.0
17.1	16.6	17.1	14.0	16.4	16.5	16.3	14.0
16.6 16.7	16.9 16.9	17.1 17.1	13.7 13.8	16.6 16.7	16.4 16.5	16.8 16.8	14.1 13.9
16.9	16.9	17.1	13.9	16.8	16.6	16.7	13.7
16.8 16.8	17.0 17.1	17.1 17.1	14.0 14.0	16.8 16.8	16.7 16.6	16.8 16.9	14.0 13.9
16.8	17.1	17.1	14.1	16.8	16.5	16.9	13.9
16.7 16.7	16.8 16.8	17.1 17.1	14.1 14.1	16.8 16.7	16.5 16.4	16.8 16.8	14.0 14.1
16.7	16.7	17.1	14.2	16.6	16.4	16.9	14.2
16.9 16.9	17.0 16.9	17.1 17.1	13.9 14.0	16.9 16.9	16.7 16.5	16.8 16.9	14.1 14.1
16.9	16.9	17.1	14.0	16.9	16.4	16.9	14.1
16.4 16.6	16.5 16.7	17.1 17.1	13.8 13.9	16.3 16.4	16.3 16.4	16.8 16.8	13.9 14.0
16.7	16.9	17.1	13.9	16.4	16.4	16.9	14.1
17.0 16.9	16.9 17.0	17.1 17.1	13.5 13.6	16.7 16.7	16.5 16.4	16.9 16.9	13.9 13.9
16.9	17.0	17.1	13.7	16.8	16.3	16.9	13.9
16.6 16.6	16.6 16.6	16.6 16.6	13.7 13.8	16.4 16.4	16.3 16.3	16.8 16.7	13.6 13.6
16.5	16.6	16.6	13.9	16.4	16.3	16.7	13.7
16.3 16.3	16.5 17.1	16.6 16.6	14.0 14.0	16.3 16.4	16.2 16.8	17.2 17.2	13.8 14.0
16.4	17.1	17.1	14.0	16.5	16.8	17.2	14.2
16.3 16.3	16.4 16.6	16.6 16.6	13.7 13.9	16.4 16.4	16.3 16.3	16.8 17.0	13.6 13.7
16.3	16.8	17.1	14.1	16.3	16.3	17.1	13.9
16.4 16.7	17.0 17.0	17.1 17.1	14.0 14.0	16.6 16.5	16.7 16.8	17.0 17.1	13.6 13.8
16.9	17.0	17.1	13.9	16.4	16.9	17.2	13.9
16.2 16.1	16.5 17.0	17.1 17.1	14.5 13.8	16.3 16.3	16.3 16.3	16.9 16.9	14.1 13.9
16.0	17.2	17.1	14.0	16.7	16.4	17.0	13.8
16.3 16.3	16.6 17.1	16.6 16.6	14.2 14.2	16.6 16.5	16.4 16.4	16.6 16.6	14.0 13.8
16.3	17.1	17.1	14.2	16.4	16.5	17.1	13.7
16.4 16.4	16.3 16.3	17.1 17.1	14.1 14.1	16.3 16.4	16.4 16.5	16.9 17.0	13.8 13.9
16.4	16.3	17.1	14.1	16.4	16.7	17.1	14.1
16.0 16.0	16.3 17.1	17.1 17.1	14.0 14.0	16.0 16.0	16.2 16.8	16.9 17.0	14.0 14.0
16.0	17.2	17.1	14.0	16.0	16.8	17.0	13.9

		2472	2447	2425	2450	953	951	2561	
16713	2427456.309	16.5 16.5	13.2 13.0	15.6 15.7	13.9 13.9	13.3 13.6	16.3 16.3	14.3 14.2	
16714	27456.359	16.4	12.9	15.8	13.9	13.8	16.3	14.0	
16715	27456.387	16.2 16.1	13.2 13.1	15.8 15.7	13.7 13.8	12.5 12.7	16.0 16.0	13.9 13.9	
16716	27456.533	16.0	13.1	15.7	13.9	12.8	16.0	13.9	
16717	27457.277	16.3 16.3	12.8 12.8	15.8 15.6	13.7 13.8	12.9 12.9	16.0 16.1	14.2 14.1	
16718	27457.311	16.4	12.9	15.4	13.8	12.9	16.2	14.1	
16719	27457.349	16.4 16.4	13.1 13.2	15.8 15.8	13.6 13.7	13.2 12.8	15.9 15.9	14.1 14.1	
16720	27457.382	16.3	13.3	15.8	13.8	12.7	15.9	14.1	
16721	27457.436	16.4 16.4	13.4 13.3	15.9 16.0	13.7 13.7	13.5 13.4	15.9 16.0	14.3 14.3	
16722	27457.469	16.6	12.9	16.2	13.8	13.2	16.0	14.3	
16723	27457.502	16.5 16.4	12.9 12.9	16.0 15.9	13.9 13.9	13.5 13.5	15.8 15.9	14.0 14.1	
16724	27457.535	16.2	12.9	15.9	13.9	13.4	15.9	14.2	
17225	27746.482	16.3 16.3	13.4 13.3	16.2 16.2	13.7 13.7	13.3 12.9	16.0 16.1	14.1 14.1	
17226	27746.482	16.3	13.3	16.2	13.7	12.8	16.2	14.1	
17227	27746.482	16.4 16.5	13.1 13.0	15.8 16.0	13.9 14.0	13.0 13.0	16.0 15.9	14.0 14.0	
17228	27746.482	16.6	13.0	16.2	14.0	12.9	15.8	13.9	
17229	27746.482	16.3 16.3	14.3 13.1	16.0 16.2	13.8 13.8	13.2 13.1	16.2 16.2	14.3 14.1	
17230	27746.482	16.3	13.0	15.5	13.8	13.0	16.1	14.0	
17231	27746.482	16.5 16.5	13.2 13.2	15.9 15.8	13.9 13.9	13.4 13.3	15.9 15.9	14.2 14.2	
17232	27746.482	16.5	13.2	15.7	13.8	13.3	15.8	14.2	
17233	27746.482	16.5 16.5	13.1 13.2	15.8 15.8	14.4 14.4	12.9 13.2	15.9 16.0	14.0 14.2	
17234	27746.482	16.5	13.4	15.8	14.4	13.4	16.2	14.4	
17235	27746.482	16.7 16.5	13.2 13.1	15.9 15.8	13.9 13.9	12.8 12.8	16.0 16.0	14.3 14.1	
17236	27746.482	16.3	12.9	15.8	13.9	12.9	16.0	13.9	
17237	27746.482	16.4 16.4	13.9 13.7	16.0 15.8	13.9 13.9	13.3 13.3	16.5 16.3	14.2 14.3	
17238	27746.482	16.3	13.5	15.6	13.9	13.3	16.2	14.4	
17239	27746.482	15.9 15.9	13.4 13.4	15.9 15.9	14.1 14.0	13.7 13.5	16.7 16.6	14.8 14.6	
17240	27746.482	15.9	13.4	15.8	13.9	13.4	16.6	14.5	
17241	27746.482	16.7 16.5	13.7 13.6	15.4 15.4	13.9 14.0	13.7 13.5	16.0 15.9	14.5 14.5	
17242	27746.482	16.3	13.4	15.4	14.0	13.4	15.8	14.4	
17243	27746.482	16.6 16.5	13.4 13.4	15.4 15.8	13.3 14.0	13.8 13.7	15.5 15.5	14.5 14.5	
17244	27746.482	16.3	13.4	15.7	14.0	13.7	15.6	14.5	
17245	27746.482	15.9 15.8	13.6 13.5	15.4 15.8	13.9 13.9	13.4 13.6	15.9 15.8	14.4 14.4	
17246	27746.482	15.7	13.4	15.8	13.8	13.7	15.8	14.3	
17247	27746.482	16.2 16.2	13.3 13.1	15.9 15.9	13.8 13.9	13.6 13.7	16.0 16.0	14.2 14.2	
17248	27746.482	16.2	13.0	16.0	14.0	13.8	16.0	14.2	
17249	27746.482	16.3 16.2	13.4 13.4	15.8 15.8	13.9 13.9	13.9 13.9	16.0 15.9	14.4 14.4	
17250	27746.482	16.2	13.4	15.7	13.9	13.9	15.7	14.4	
17251	27746.482	16.2 16.1	12.8 12.8	15.4 15.8	13.8 13.8	12.8 12.9	16.5 16.4	14.3 14.3	
17252	27746.482	15.9	12.8	15.8	13.8	12.9	16.3	14.3	
17253	27746.482	16.5 16.4	13.2 13.0	15.4 15.5	13.9 13.9	13.9 13.8	16.0 16.0	14.5 14.5	
17254	27746.482	16.2	12.8	15.6	13.9	13.7	15.9	14.5	
17255	27746.482	16.3 16.3	12.8 12.8	15.8 15.7	13.5 13.7	13.5 13.6	16.0 16.1	14.5 14.5	
17256	27746.482	16.3	12.8	15.5	13.9	13.7	16.2	14.5	
17257	27746.482	16.4 16.3	12.8 13.0	15.6 15.6	13.8 13.8	13.7 13.6	16.2 16.2	14.2 14.3	
17258	27746.482	16.3	13.1	15.7	13.8	13.4	16.2	14.3	
17259	27746.482	16.7 16.6	12.8 12.8	16.2 16.1	13.9 14.0	13.6 13.7	16.3 16.1	14.3 14.2	
17260	27746.482	16.6	12.8	16.1	14.0	13.7	16.0	14.2	
17261	27746.482	16.3 16.4	12.8 12.9	15.8 15.8	14.0 13.9	13.4 13.4	15.9 16.0	14.4 14.3	
17262	27746.482	16.5	13.0	15.8	13.9	13.4	16.1	14.3	
17263	27746.482	16.3 16.3	12.8 12.8	15.4 15.5	13.9 13.8	13.3 13.3	16.2 16.2	14.4 14.3	
17264	27746.482	16.3	12.8	15.4	13.8	13.3	16.2	14.3	
17265	27746.482	16.3 16.3	12.8 12.8	15.4 15.5	13.9 13.8	13.3 13.3	16.2 16.2	14.4 14.3	

2368	2361	2316	5603	2334	2344	2357	2362
16.0 16.0	16.8 16.9	17.1 17.1	14.2 14.1	15.9 15.9	16.0 16.1	16.9 16.9	13.9 13.9
15.9	16.9	17.1	13.9	15.8	16.2	17.0	13.9
16.0 15.9	16.8 16.8	17.1 17.1	13.6 13.8	15.9 15.9	16.3 16.2	17.2 17.2	13.6 13.7
15.9	16.8	17.1	14.0	15.9	16.1	17.2	13.7
15.9 15.9	16.7 16.8	17.1 17.1	14.1 14.0	15.9 16.0	16.4 16.4	16.8 16.9	13.8 13.8
15.9	16.8	17.1	14.0	16.0	16.3	17.0	13.7
15.9 15.9	16.1 16.1	16.1 16.1	14.4 14.3	15.9 15.9	16.0 16.1	16.1 16.1	14.0 13.9
15.9	16.6	16.6	14.3	15.9	16.3	16.6	13.7
16.0 16.1	16.0 16.0	16.6 16.6	14.4 14.2	16.0 16.0	16.6 16.5	16.0 16.0	14.0 14.0
16.2	16.8	16.6	14.0	16.0	16.4	16.0	13.9
16.5 16.6	16.4 16.5	17.1 17.1	14.0 14.0	16.4 16.3	16.3 16.4	16.4 16.6	13.7 13.9
16.6	16.5	17.1	14.1	16.3	16.4	16.8	14.1
16.3 16.3	16.1 16.0	17.1 17.1	13.9 13.9	16.3 16.2	16.8 16.8	16.3 16.4	13.8 13.9
16.3	16.0	17.1	14.0	16.2	16.8	16.5	14.1
16.3 16.3	16.2 16.3	17.1 17.1	14.1 14.1	16.1 16.1	16.3 16.3	16.9 16.8	13.8 13.8
17.0	16.4	17.1	14.2	16.0	16.4	16.8	13.8
16.3 16.3	16.0 16.0	17.1 17.1	14.1 14.2	16.2 16.2	16.4 16.6	16.5 16.7	13.7 13.8
16.8	16.0	17.1	14.2	16.1	16.7	16.9	13.8
16.4 16.9	16.3 16.3	17.1 17.1	14.1 14.1	16.2 16.3	16.4 16.6	17.2 17.2	13.7 13.7
17.0	16.4	17.1	14.0	16.5	16.8	17.2	13.7
16.3 16.3	16.5 16.5	17.1 17.1	14.0 14.1	16.5 16.4	16.4 16.5	16.8 16.9	14.0 13.9
16.4	16.5	17.1	14.2	16.4	16.6	16.9	13.8
16.3 16.4	16.3 16.4	17.1 17.1	13.9 14.0	16.2 16.3	16.3 16.6	16.8 16.9	14.0 14.1
16.4	16.5	17.1	13.9	16.4	16.8	17.0	14.1
15.9 15.9	16.8 16.4	16.9 16.9	13.7 13.8	15.6 15.7	15.9 16.1	16.8 16.8	13.6 13.6
15.9	16.4	16.9	14.0	15.9	16.2	16.8	13.7
16.2 16.2	16.8 16.6	16.8 16.7	13.9 13.9	16.0 16.0	16.3 16.2	17.2 17.1	13.6 13.7
16.1	16.7	16.6	14.0	16.0	16.2	17.0	13.7
16.0 16.9	16.5 16.7	17.2 17.1	13.9 14.0	16.5 16.6	16.3 16.3	17.2 17.2	13.6 13.6
15.9	16.8	17.0	14.1	16.7	16.3	17.2	13.6
15.9 16.0	16.5 16.4	16.8 16.8	14.0 14.0	16.7 16.6	16.4 16.4	16.8 16.9	13.7 13.7
16.0	16.3	16.7	13.9	16.5	16.4	17.0	13.7
16.3 16.1	16.4 16.4	17.2 17.0	14.1 14.0	16.3 16.4	16.4 16.6	16.9 16.9	13.6 13.7
16.0	16.5	16.8	13.9	16.4	16.8	16.9	13.8
16.8 16.9	17.0 17.0	17.0 16.9	13.8 13.9	16.3 16.3	16.7 16.5	16.3 16.4	13.6 13.6
17.0	17.0	16.8	14.0	16.3	16.4	16.4	13.7
16.5 16.6	16.9 16.9	17.0 17.0	13.9 14.0	16.1 16.1	16.4 16.6	16.7 16.7	13.9 13.8
16.8	17.0	17.0	14.1	16.1	16.7	16.8	13.7
16.0 16.3	16.2 16.4	17.3 17.1	13.6 13.8	16.0 16.1	16.1 16.1	16.0 16.0	13.4 13.8
16.5	16.5	17.1	14.1	16.2	16.2	16.1	13.6
16.4 16.6	16.3 16.9	17.1 17.1	14.0 13.9	15.9 15.9	15.8 15.9	16.3 16.4	13.7 13.7
16.8	16.9	17.1	13.9	16.0	16.0	16.5	13.8
16.3 16.3	16.5 16.7	17.1 17.1	13.7 13.9	16.0 16.0	16.0 16.0	16.4 16.3	13.8 13.8
16.3	16.8	17.1	14.1	16.0	16.9	16.3	13.9
16.5 16.7	16.6 16.8	17.3 17.1	14.0 14.0	16.0 16.1	15.9 15.9	16.8 16.8	13.9 14.0
16.8	16.9	17.1	14.1	16.2	16.0	16.8	14.1
16.4 16.6	16.4 16.8	17.1 17.1	13.9 13.9	16.2 16.2	16.3 16.2	16.8 16.8	13.7 13.7
16.8	17.1	17.1	14.0	16.1	16.2	16.3	13.8
16.2 16.4	16.8 16.9	—	14.4 14.2	16.0 16.0	16.0 16.0	16.3 16.4	13.9 13.8
16.5	16.9	—	14.1	16.0	16.0	16.6	13.8
16.3 17.0	16.4 16.9	17.1 17.1	13.5 13.8	16.3 16.3	16.1 16.1	16.8 16.8	13.7 13.8

46 A

1934phase.prog. 2448M

46 A

17287	2427800.283	2472	2447	2425	2450	953	951	2561							
		16.7	16.5	12.8	12.7	15.8	15.8	13.7	13.7	13.8	13.8	16.6	16.5	14.5	14.4
		16.3		12.7		15.9		13.8		13.7		16.4		14.3	
17288	27800.320	16.3	16.2	12.6	12.7	15.7	15.7	13.9	14.0	13.8	13.9	16.6	16.5	14.6	14.5
		16.2		12.8		15.7		14.1		13.9		16.5		14.4	
17289	27800.377	16.0	16.1	12.7	12.8	16.1	16.1	13.4	13.6	13.2	13.2	16.4	16.4	14.4	14.3
		16.3		12.8		16.0		13.8		13.3		16.4		14.2	
17290	27800.414	16.6	16.4	12.8	12.8	16.0	16.2	14.0	13.9	13.2	13.3	16.3	16.4	14.3	14.2
		16.3		12.8		16.3		13.8		13.4		16.6		14.2	
17291	27800.472	16.3	16.3	12.8	12.8	16.6	16.5	13.4	13.7	13.5	13.5	16.3	16.4	14.2	14.2
		16.4		12.8		16.5		13.9		13.4		16.5		14.2	
17292	27800.507	16.3	16.3	12.9	12.9	16.3	16.3	13.8	13.8	13.5	13.5	16.7	16.5	14.1	14.3
		16.3		12.8		16.3		13.9		13.5		16.4		14.4	
17293	27800.555	16.3	16.2	12.7	12.8	16.2	16.4	13.7	13.7	12.8	13.3	16.2	16.2	14.2	14.2
		16.0		12.8		16.5		13.8		13.3		16.2		14.3	
17294	27801.283	15.7	15.7	12.8	12.8	15.9	15.8	13.9	13.9	13.8	13.8	16.6	16.6	14.3	14.3
		15.7		12.8		15.8		13.9		13.8		16.5		14.4	
17295	27801.321	15.8	15.7	13.1	12.9	15.6	15.7	14.1	14.0	13.8	13.8	16.6	16.7	14.3	14.3
		15.6		12.8		15.7		13.9		13.8		16.8		14.3	
17298	27802.499	16.3	16.3	13.0	13.0	15.5	15.6	14.2	14.0	13.5	13.4	16.7	16.7	14.3	14.4
		16.2		12.9		15.6		13.9		13.4		16.6		14.4	
17299	27802.552	16.2	16.2	13.0	12.9	15.6	15.6	13.8	13.8	13.3	13.4	16.9	16.8	14.4	14.3
		16.1		12.8		15.6		13.8		13.5		16.6		14.3	
17300	27807.283	16.4	16.3	13.1	13.1	15.8	15.8	13.9	13.9	13.9	13.9	16.8	17.0	14.4	14.4
		16.3		13.1		15.8		13.9		13.8		16.6		14.5	
17301	27807.317	16.5	16.5	13.1	13.0	15.7	15.8	13.4	13.6	13.7	13.8	16.6	16.7	14.5	14.5
		16.5		12.9		15.9		13.8		13.8		16.9		14.4	
17302	27807.365	16.6	16.5	13.1	13.0	15.5	15.5	13.8	13.7	13.4	13.5	16.7	16.8	14.2	14.2
		16.4		12.9		15.5		13.7		13.6		16.9		14.2	
17303	27807.399	16.6	16.6	13.2	13.1	15.7	15.7	13.8	13.8	13.7	13.7	16.9	16.8	14.5	14.4
		16.7		13.1		15.8		13.9		13.8		16.8		14.4	
17304	27807.443	16.2	16.2	13.2	13.0	15.6	15.6	13.9	14.1	13.7	13.8	16.3	16.1	14.3	14.3
		16.2		12.9		15.7		14.2		13.8		16.1		14.4	
17305	27807.476	16.3	16.3	13.2	13.2	15.7	15.7	13.8	13.8	13.6	13.7	16.3	16.3	14.4	14.4
		16.2		13.2		15.8		13.8		13.7		16.3		14.4	
17306	27807.516	16.9	16.8	13.4	13.3	15.8	15.8	13.9	13.9	13.9	13.8	16.5	16.5	14.4	14.4
		16.6		12.9		15.8		13.9		13.8		16.6		14.5	
17307	27807.549	16.4	16.5	13.1	13.0	15.4	15.6	13.8	13.8	13.8	13.9	16.7	16.6	14.3	14.3
		16.5		13.2		15.7		13.9		13.9		16.5		14.4	
17308	27808.282	15.6	15.6	13.0	12.9	15.8	15.7	13.8	13.9	13.9	13.9	15.7	15.7	14.3	14.3
		15.7		12.8		15.6		14.0		13.9		15.7		14.3	
17309	27808.317	15.6	15.7	13.1	12.9	15.9	15.9	13.8	13.9	13.7	13.7	15.9	15.8	14.2	14.3
		15.7		12.8		15.8		13.9		13.7		15.8		14.4	
17310	27808.368	15.6	15.6	13.1	13.0	15.6	15.6	13.8	13.8	13.5	13.6	15.9	15.8	14.3	14.3
		15.5		13.0		15.6		13.9		13.6		15.7		14.3	
17311	27808.402	15.8	15.8	12.9	12.9	15.9	15.8	13.9	13.9	13.8	13.7	15.9	15.9	14.2	14.3
		15.6		13.0		15.8		13.8		13.7		15.9		14.4	
17315	27811.274	16.3	16.3	13.2	13.0	15.4	15.6	13.8	13.8	13.8	13.8	16.0	16.2	14.3	14.3
		16.3		12.8		16.0		13.9		13.9		16.4		14.3	
18016	28078.413	16.0	16.1	13.8	13.8	15.6	15.7	12.7	13.8	13.8	13.1	16.1	16.5	14.2	14.1
		16.3		13.9		15.9		13.8		13.2		16.6		14.0	

2368	2361	2310	5603	2334	2344	2357	2362
16.4 16.5	16.5 16.9	17.0 17.1	13.7 13.9	16.3 16.4	16.3 16.4	17.1 17.1	13.7 13.7
16.7	17.0	17.2	14.0	16.4	16.5	17.0	13.8
16.5 16.6	16.9 17.0	$\Sigma 17.1$ 17.1	14.2 14.1	16.3 16.5	16.6 16.7	17.2 17.2	13.7 13.9
16.8	17.0	$\Sigma 17.1$	14.0	16.7	16.8	17.2	14.1
16.8 16.9	17.0 16.9	$\Sigma 17.1$ 17.1	13.7 13.8	16.4 16.6	16.8 16.7	17.0 17.1	13.8 13.9
17.0	16.9	$\Sigma 17.1$	13.9	16.6	16.7	17.2	14.0
16.3 16.8 16.6	16.5 16.7	$\Sigma 17.1$ 17.1	13.8 13.8	16.2 16.3	16.3 16.4	17.0 17.1	13.9 13.8
16.8	16.9	$\Sigma 17.1$	13.8	16.5	16.5	17.2	13.8
16.8 16.8	16.9 17.0	17.3 $\Sigma 17.1$	14.2 14.2	16.3 16.5 16.6	16.4 16.6	17.2 17.2	13.8 13.9
16.8	17.2	$\Sigma 17.1$	14.1	16.9	16.7	17.2	14.0
16.5 16.7	16.6 17.2 17.0	$\Sigma 17.1$ 17.1	14.1 14.1	16.3 16.4	16.5 16.5	17.1 17.0	13.9 14.0
16.8	17.2	$\Sigma 17.1$	14.2	16.5	16.4	17.0	14.1
16.4 16.6	16.5 17.0 16.9	$\Sigma 17.1$ 17.1	13.9 13.9	16.3 16.2	16.4 16.4	17.1 17.1	13.6 13.7
16.8	17.2	$\Sigma 17.1$	13.9	16.1	16.5	17.2	13.9
16.1 16.8	16.4 17.1 16.8	$\Sigma 17.1$ 17.1	13.8 14.0	16.3 16.6	16.4 16.5	17.0 16.8	13.7 13.8
15.9	16.9	$\Sigma 17.1$	14.1	16.8	16.7	16.7	13.9
16.0 16.1	16.4 17.0 16.9	17.2 17.2	14.0 14.1	16.3 16.4 16.5	16.9 16.8 16.4	16.3	13.8 13.8
16.2	17.2	17.2	14.1	16.8	16.7	16.3	13.9
16.7 16.8	17.0 17.0	$\Sigma 17.1$ 17.1	14.0 14.1	16.0 16.1	16.8 16.8	17.0 17.0	13.9 14.0
16.8	17.0	$\Sigma 17.1$	14.2	16.2	16.8	17.0	14.1
16.3 16.4	16.4 16.9 16.8	$\Sigma 17.1$ 17.1	14.1 14.1	16.0 16.0	16.3 16.4	16.7	13.9 13.8
16.5	17.2	$\Sigma 17.1$	14.1	16.0	16.4	$\Sigma 17.1$	13.7
16.2 16.2	16.5 17.0 16.8	17.2 17.2	14.0 14.1	15.9 15.9	16.2 16.1	17.2 17.1	13.8 13.9
16.2	17.0	17.2	14.2	15.9	16.1	17.0	13.9
16.0 16.0	17.0 17.1	$\Sigma 17.1$ 17.1	14.1 14.1	15.8 15.9	16.2 16.4	16.9 17.0	13.8 13.8
16.0	17.2	$\Sigma 17.1$	14.1	15.9	16.6	17.1	13.7
16.2 16.1	16.8 17.0	$\Sigma 17.1$ 17.1	14.0 14.0	15.8 16.0	16.2 16.2	17.0 17.0	14.0 13.9
16.0	17.2	$\Sigma 17.1$	13.9	15.9	16.2	17.0	13.8
16.0 16.0	16.4 17.0 16.8	$\Sigma 17.1$ 17.1	14.0 14.1	16.0 16.0	16.3 16.4	17.0 17.0	14.1 14.1
16.0	17.0	$\Sigma 16.6$	14.1	16.0	16.4	17.1	14.2
15.9 15.9	$\Sigma 15.8$ 15.8	$\Sigma 15.8$ 15.8	14.1 14.0	15.7	15.9 16.0	$\Sigma 15.8$ 15.8	14.2 14.2
15.9	$\Sigma 16.1$	$\Sigma 16.1$	13.9	15.6	16.1	$\Sigma 16.1$	14.1
15.9 15.9	$\Sigma 16.6$ 16.1	$\Sigma 16.6$ 16.6	14.2 14.2	15.8 15.9	16.1 16.1	$\Sigma 16.6$ 16.6	14.0 14.1
15.9	16.6	$\Sigma 16.6$	14.2	15.9	16.1	$\Sigma 16.6$	14.1
15.9 15.9	16.4 17.0 16.8	$\Sigma 17.1$ 17.1	14.0 14.1	15.8 15.8	16.3 16.5	16.8 16.9	13.9 13.8
16.0	16.9	$\Sigma 17.1$	14.2	15.7	16.7	16.9	13.8
15.9 15.9	16.1 16.6 16.4	$\Sigma 16.6$ 16.6	14.2 14.2	15.8 15.8	16.1 16.1	16.6 16.6	14.0 14.1
15.9	16.6	$\Sigma 16.6$	14.2	15.8	16.2	$\Sigma 16.6$	14.1
16.0 16.0	16.1 16.0	$\Sigma 17.1$ 17.1	13.9 14.0	15.8 15.9	16.3 16.4 16.6	16.2 16.2	13.8 13.8
16.0	15.9	$\Sigma 17.1$	14.0	15.9	16.8	16.2	13.9
16.2 16.2	16.0 16.0	$\Sigma 17.1$ 17.1	13.7 13.9	15.9 15.9	16.5 16.6	16.3 16.3	13.8 13.9
16.3	16.0	$\Sigma 17.1$	14.0	15.9	16.7	16.3	14.0
16.3 16.3	16.3 16.1	$\Sigma 17.1$ 17.1	13.5 13.7	16.0 16.0	16.3 16.7 16.6	16.7 16.6	13.9 13.9
16.3	16.0	$\Sigma 17.1$	13.9	16.1	16.8	16.5	13.9
16.3 16.3	16.2 16.3	$\Sigma 17.1$ 17.1	14.1 14.0	16.0 16.0	16.3 16.4 16.8	16.8	14.0 14.1
16.4	16.4	$\Sigma 17.1$	13.9	16.0	16.5	16.8	14.1
16.3 16.4	16.5 16.6	$\Sigma 17.1$ 17.1	13.9 13.8	16.5 16.5	16.6 16.6 16.8	16.6	13.9 14.0
16.4	16.8	$\Sigma 17.1$	13.7	16.5	16.7	16.5	14.0
15.9 15.9	16.3 16.0	$\Sigma 17.1$ 17.1	13.7 13.9	16.4 16.5	16.5 16.5	17.1 17.1	14.3 14.3
16.0	16.7	$\Sigma 17.1$	14.1	16.5	16.6	17.2	14.2

Variables in L.M.C.
(possible cluster-types)

ident. sh?
- difficult to measure

Plate	J19	H.V. 2361	5680	5681	5683	5685
A 16 677	2427410.266	Badly fogged	Limit 16.5 only			
678	410.300	"	"	16.2	"	"
679	413.340	17.4	16.5	17.5	16.9	17.0
680	413.374	17.3	16.5	17.3	17.2	17.2
681	421.312	16.6	16.3	17.1	17.2	16.3
682	421.344	16.2	16.3	16.6	[16.6	16.4
684	422.272	17.3	16.8	17.5	17.1	17.4
685	422.293 7 th exposure.	—	—	—	—	—
687	426.264	Too fogged to use.				
688	426.296	17.1	16.7	17.1	redundant? 16.6	17.2
689	426.329	17.5	16.4	17.1	16.8	16.9
690	426.363	17.2	16.7	17.4	17.3	17.1
691	defect on Tan comp. 17.2 426.396 all measures uncertain 16.8	17.0	16.4	17.3	16.9	16.8
692	426.448	17.1	16.6	17.2	16.8	defect
693	426.555	17.0	16.2	17.1	17.0	16.7
701	449. very difficult plate	17.4	17.2	[17.5	defect?	17.3
702	449.	17.1	16.5	16.7	16.8	16.7
703	449.	17.0	16.2	16.9	17.0	17.1
704	449.	16.7	16.5	[16.8	16.7	17.0
705	449.	17.2	16.3	17.0	17.2	16.9
706	449.	[16.4	16.3	16.6	16.6	16.5
707	454.	16.6	16.0	17.0	16.7	16.3

Plate	J.D.	2396	5704	5727	5784	2526	5849
16677							
678							
679		16.6	16.7	16.6	17.2	16.3	17.4
680		16.7	17.1	16.3	17.1	16.3	17.5
681		17.2	17.1	16.5	[17.2	16.8	16.9
682		16.6	[16.4	[16.4	[16.4	16.4	[16.4
684		[17.5	17.0	16.3	17.4	16.8	[17.5
685		—	—	—	—	—	—
687		Too badly fogged					
688		16.6	17.0	16.5	17.2	16.4	17.3
689		16.7	17.0	16.5	17.4	16.3	17.2
690		17.2	17.0	17.1	17.5	16.9	17.3
691		17.0	17.0	16.7	17.0	16.5	17.3
692		17.4	16.8	16.8	[17.2	16.5	17.1
693		16.6	16.3	16.4	16.9	16.7	17.0
701	disturb this plate	17.1	17.4	16.6	[17.2	—	[17.2
702		17.0	16.6	16.6	17.1	16.9	17.2
703		16.7	16.8	16.6	17.2	16.6	[17.2
704		16.7	16.6	16.5	17.2	def from image	16.7
705		16.8	16.5	16.4	17.3	17.0	17.1
706		16.4	16.6	16.3	16.6	[16.4	16.5
707		16.8	16.8	16.6	16.9	17.1	[16.8

	Plate	JD	2361	5680	5681	5683	5685
49	A 16712	2427456.	17.1	16.5	17.3:	17.1	16.9
	713	456.	17.1	16.5	17.4:	16.7	17.1
4	714	456.	17.1	16.3	17.3	defect? 17.0?	16.7
5	715	456.	17.1	16.3	17.2:	17.0	17.2:
9	716	456.	[16.8	16.7	[16.8	16.6	16.8:
6.4	717	457.	—				
5	718	457.	16.3	16.4	17.6	17.3	17.3
—	719	457.	16.6	16.2	17.3	17.1	17.0
	720	457.	16.3	15.9	17.0	16.8	16.5
3	721	457.	16.4	16.0	16.8:	16.7	16.6
2	722	457.	16.4	16.0	17.0:	16.9	16.8
3	723	457.	16.5	16.0	[16.8	17.0:	16.3:
3	724	457.	16.3	15.9	17.0	16.8	16.3
7.1			1	1	1	1	1
0							
2							
7.2							
6.7							
7.1							
5							
8							

Plate	JD.	2396	5704	5727	5784	2526	5849
16712		16.4	16.5	16.5	16.8	[17.2]	17.3
713		16.5	16.7	16.5	17.5	17.0	17.3
714		16.3	16.6	16.5	17.2	17.1	17.5
715		16.3	17.0	16.9	[17.0]	17.1	17.0
716		16.3	16.8	16.6	17.0	16.9	[16.8]
717							
718		17.4	16.7	16.4	17.6	17.1	17.0
719		17.1	17.0	16.7	17.1	17.1	17.3
720		16.7	16.4	16.6	17.0	17.1	16.8
721		16.7	16.7	16.5	17.2	17.0	16.7
722		16.9	16.6	16.5	17.1	17.1	[17.0]
723		16.9	[16.8]	16.6	[16.8]	[16.8]	[16.8]
724		17.1	17.1	16.4	17.0	[17.2]	[17.2]

Second Measures on h m c Variables

Plate	^{h v} 2361	5680	5681	5683 <i>double</i>	5685	2396	5704
A16677	<i>not usable</i>						
678	<i>not usable</i>						
679	17.1	16.3	17.4	17.0	17.1	16.7	17.1
680	17.3	16.5	17.3	17.1	17.3	16.7	17.3
681	16.1	16.5	17.1	[16.8	16.3	16.9	16.9
682	16.2	16.3	16.7	[16.4	16.2	16.6	16.7
684	17.2	16.8	[17.5	<i>defect</i>	17.3	[17.5	16.8
685	<i>7^m exposure</i>						
687	<i>not usable during</i>						
688	16.9	16.8	17.0	16.8	17.0	16.6	16.7
689	17.1	16.5	16.6	16.7	16.5	16.5	16.7
690	17.0	16.6	[16.4	16.4	16.9	17.0	17.1
691	[17.2	16.2	17.3	16.9	17.3	16.7	16.9
692	17.0	16.5	17.4	16.9	<i>defect?</i>	17.4	16.7
693	17.0	16.0	17.1	16.9	16.6	16.6	16.7
701	⁺² 17.3	⁻⁵ 16.7	[17.2	17.1	[17.2	⁻⁵ 16.6	[17.2
702	17.1	16.3	16.8	16.8	17.0	16.7	16.6
703	16.9	16.4	17.0	16.9	16.7	16.6	16.5
704	16.7	16.6	[17.2	16.7	16.7	16.6	16.7
705	16.8	16.3	17.2	17.0	16.8	16.7	16.6
706	16.8	16.1	16.6	16.7	16.5	16.6	16.7
707	16.6	15.9	17.1	17.0	16.0	16.9	16.7

5727 5784 2526 5849

16.6	17.0	16.5	17.0
16.2	17.4	16.3	17.5
16.4	[16.8	16.6:	[16.8
16.7	[16.7	16.7	[16.7
16.3	17.4.	16.7	[17.5

16.5	17.2	16.6:	17.1
16.5	16.9	16.3	16.9
16.7	17.6	16.5	17.4
16.6	17.0:	16.5	17.2:
16.8	[17.5	16.6	17.1
16.5	16.9	16.5	16.9
defect:	[17.2	[17.2	[17.2
16.5	17.0	16.9	[17.2
16.6	17.3	16.7	17.4
16.5	17.1	defect	16.7
16.5	17.3	17.0	17.0
16.3	[16.8	16.6	16.4
16.5	17.0	16.9	16.8

Plate	HV:	2361	5680	5681	5683	5685	2396	5704
712		17.3	16.5	17.4	16.8	17.0	16.2	16.9
713		17.2	16.4	17.5	16.7	16.9	16.3	17.2
714		17.0	16.3	17.3	17.0	16.9	16.1	16.5
715		17.1	16.3	[16.8	16.9	[16.8	16.2	17.0
716		[16.8	16.5	[16.8	[16.8	16.7	16.4	16.8
717								
✓ 718		16.5	16.1	17.6	17.3	17.0	17.3	16.7
719		16.6	16.2	17.4	17.1	17.0	16.9	16.9
720		16.3	15.9	16.8	16.7	16.6	16.7	16.6
721		16.4	15.9	?	16.7	16.6	16.5	16.5
722		16.4	16.2	17.3	17.1	16.9	17.1	16.6
723	Burn plate	16.6	15.9	[16.8	16.8	16.5	17.0	16.9
724		16.4	15.9	17.0	16.8	16.3	17.1	17.0

5727 5784 2526 5849

16.6 17.0 — 17.1

16.4 17.5 17.0 17.3

16.4 17.3 16.9 17.4

16.8 [16.8 [16.8 17.0

16.4 16.9 16.8 [16.8

16.6 17.5 17.3 17.1

16.7 17.2 17.0 17.0

16.7 16.9 17.1 16.7

16.6 16.9 16.7 16.6

16.7 16.9 16.8 17.3

16.5 17.0 17.0 16.9

16.5 17.0 [17.2 17.3

Third Measures on faint LMC variables2361

1679 17.0

681 16.3

689 17.1

705 17.1

5680

701 16.3:

718 16.2

5681

683 17.2

689 16.8

690 17.4

721 16.7:

5683

683 17.0

690 17.2

701 defect?

707 16.7

712 17.1:

716 17.0

5685

689 16.9

691 17.2

702 16.6

703 16.9

704 16.7

707 16.1

718 17.0:

2396

681 16.9

691 16.8

692 16.7

701 16.8

702 17.0

5704

679 16.9

682 16.4

688 17.0

689 16.8

693 16.8

703 16.8

712 16.5

713 16.9

723 17.1:

5727

690 16.7

701 16.4: defect?

5784

680 17.4

689 16.7

706 16.7:

721 17.1

2526

682 16.6

690 16.8

701? ?

712 16.8

721 16.6:

722 16.9:

5849

679 17.1

681 17.1

689 16.9

702 17.2

707 16.9:

719 17.2

723 16.8

724 17.5

Measures for
 Light Curves of Variables in LMC
 with periods between $\frac{6}{8}$ & $\frac{12}{15}$ days -
 To determine the nature of the "Hertzsprung effect"
 in the LMC variables.

Re measures	HV 2432
MF	
✓ 16455	14.5:
✓ 11333	14.3
✓ 9934	14.5
✓ 12701	14.8
✓ 12694	15.0 : peculiar image

76 MF	J.D.	H. V.						
		2861	2722 D.H.	999 D.H.	5954	2536	2491	
342	24223799.561 <i>Pon plate</i>	[15.5 [15.2	15.5: [15.2	—	—	[15.5: [15.5: 14.5 14.7	15.8 —	
411	23828.524	[15.5 [15.5	[15.5 [15.5	—	—			
9836	24412.771					15.8		
9930	24488.598	16.0 16.1	15.4 15.5	14.9 14.8	16.1:	16.0 16.0	15.7 15.3	
9934	24489.636	16.3 16.2	15.6 15.6	15.1 15.2	16.0	15.2 15.4 15.4	15.8 16.0	
9943	24491.639 <i>Double images</i>					14.9	15.8	
9949	24492.615					15.8		
9956	24493.606 <i>Do not use, double images?</i>	[15.5 [15.5	15.0: 15.2:	14.9: 14.9:	16.1:	15.4 15.4	14.9: 15.4	
9963	24495.666	16.3 16.2	15.6 15.8	15.0 15.1	16.4	15.8 15.9	15.3 15.7	
10060	24547.543					14.9		
10062	24549.570					15.3		
11096	2425176.491							
11104	2425177.484	16.0 16.0	14.5: 15.4 15.3	15.6: 15.2 15.3	16.3	15.6 15.9	15.5	
11115	2425179.516	16.3 16.3	15.4 15.5	14.9 14.8	—	15.1 15.3	15.8	
11145	2425189.578	16.0 15.9	14.4 14.4	14.6 14.8	blu	15.8 16.0	16.0	
11163	2425201.492	16.4 16.2	15.4 15.6 15.5	15.4 15.4 15.2	16.3	15.9 16.0	15.6	
11199	2425210.570							
11239	2425239.356 <i>badly trailed</i>	16.1: 16.0:	15.4: 15.5: 14.8	14.9 14.7 14.7	blu	16.0: 16.0:	16.1:	
11277	2425264.288 <i>Pon plate</i>	[15.5 [15.5	14.9 14.9	— —	— —	[15.5 [15.5	15.4	
11333	2425288.278	16.0 16.3	15.2 15.4	15.4 15.3	16.2	15.3 15.4	15.7	
12416	25530.545 <i>Do not use</i>							
12468	25543.552 <i>Pon plate</i>	15.5 16.2	14.4 14.7	— —	— —	15.4	15.3	
12485	25559.456	15.8 15.8	14.2 14.3 14.5	15.5: 15.5 15.5	16.3: 16.3:	15.9 15.8	16.0	
12487	2425559.517	15.8 15.8	14.1 14.5	15.4 15.6	[16.1	15.9 15.9	15.8	

	MLM 952	935	2432 DM 14.5 14.4	This star lies east of body of 927 5. [15.5]	2358 [15.5]	905 <u>ven</u>	2337 MR 14.5	77 971 DM 14.5
	16.3	15.2 14.6	14.9 14.5	[15.5]	15.4	14.3	[15.5]	14.5
	16.0	[16.1]	14.5	[16.1]	15.8		15.9	14.6
	[16.0]	15.3 15.3	14.2 14.9	16.1	15.4	15.7	16.0	15.0
	15.8	14.7	14.4				15.5	
	15.4	15.2					14.9	
	15.1		14.5				15.2	
	15.6	[15.5]	14.4	15.4	15.0	14.5	15.4	[15.5]
	15.8	16.0	14.9				15.8	
	15.9	15.8	14.8	16.0	15.8	15.8	15.9	14.5
	16.2	14.5	14.3				14.9	
	16.0	15.5	14.9				15.5	
			14.4					14.3
5	16.2	15.1	14.3	16.0	15.8	15.3	16.2	14.9
6	16.1	16.0	14.3	16.0	15.8	15.2	15.0	14.8
			14.2					15.5
6.0	16.0	15.1	14.2	16.0	15.4	15.5	16.0	15.5
			14.3					14.7
5.6	15.5	15.7	14.4	15.8	15.8	15.4	15.6	15.3
			14.5					14.8
			14.2					14.8
1	16.1	15.3	14.3	blue	15.8	15.2	15.3	15.2
			14.6					14.7
4			14.8	blue	[15.5]	15.5	[15.5]	[15.5]
			14.4					14.7
5.7	15.3	15.5	14.6	16.3	15.4	14.9	15.0	15.0
			14.5					14.7
3	[16.0]	15.0	14.9	[16.0]	15.7	15.2	15.7	
6.0	16.1	15.2	14.4	16.0	15.5	14.0	15.9	15.3
			14.4					14.8
5.8	16.4	15.0	14.3	[16.1]	15.3	14.4	15.9	15.4

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MF

		2861	2722	999	5954	2536	2491
2499	2425540.486 <i>Poor plate</i>	16.1 16.0	14.6 14.5	14.9 14.9	16.1	15.0 14.9	16.1
12501	25560.547	16.2 16.0	14.7 15.2	14.6 14.2	16.1	14.5 14.3	[16.0]
12509	25561.509	16.0 16.0	14.8 14.9	14.4 14.5	16.0	14.7 14.9	[16.1]
12513	25562.419	16.3 14.2	15.2 15.7	14.1 14.5	16.3	15.3 15.4	15.7
12524	25563.546	15.3 15.4	15.6 15.6	14.4 14.2	16.3	15.4 15.4	14.9
12532	25564.474						
12544	25565.514	16.3 16.2	15.3 15.4	14.4 14.5	16.2	15.9 16.1	15.4
12552	25567.416	16.1 15.9	14.2 14.2	— 14.9	16.0	14.4 14.5	15.9
12555	25567.486	16.3 16.2	14.5 14.5	15.3 15.4	16.0	14.5 14.7	[16.1]
12563	25568.454	15.4 15.3	14.8 14.9	14.7 14.9	16.1	14.6 14.7	[16.1]
12577	25570.542	15.9 15.9	15.3 15.2	15.2 15.3	<i>Blurr</i>	15.4 15.3	14.9
12584	2425582.363	16.1 16.3	14.0 14.2	— 14.8	—	14.9 15.1	16.0
12595	2425586.520 <i>Poor plate</i>	16.1 16.0	14.9 14.9	— —	—	14.3 14.4	15.2
12603	2425589.387 <i>Bad plate</i>	<i>Do not use</i>					
12610	2425589.556	16.1 15.6	15.4 15.3	14.6 14.7	16.0 16.1	[16.0] [16.0]	—
12620	2425592.391 <i>not very good plate</i>	15.4 15.4	15.1 15.3	15.3 14.9	16.0	14.5 14.5	14.7
12630	2425593.316	15.9 15.8	14.6 15.3	15.4 15.3	16.0	14.8 14.9	15.6
12639	2425593.571 <i>Poor plate</i>	15.5 15.5	15.0 15.0	— 15.4	—	15.0 15.0	15.5
12643	2425594.386	15.9 15.7	15.5 15.2	15.3 14.9	[16.1]	15.3 15.3	15.9
12650	2425595.302	16.3 16.2	15.8 15.6	14.6 14.8	—	15.5 15.6	15.8
12664	2425596.389	15.9 15.9	15.4 15.4	14.8 14.9	—	15.2 15.5	[15.5]
12674	2425598.447	15.9 15.5	14.1 14.2	14.6 14.2	16.0	14.9 15.1	15.3
12680	2425602.526	15.9 16.0	15.1 15.4	— 15.5	—	[15.5] 16.1	15.7
12686	2425609.282 <i>Do not use</i>						

	952	935	2432	927	2358	905	2337	971
	[16.1	15.5	14.3	[16.1	15.6	14.4	15.9	15.7
	16.1	15.7	14.3 14.5	blue	16.0	15.5	16.0	15.3 15.4
	[16.1	15.8	14.5	15.9	15.7	14.9	16.0	15.8
	16.0	15.3	14.2	15.1	15.3	15.0	15.6	15.8
	15.5	15.4	14.4	15.8	15.4	15.3	15.9	15.1
	15.3	14.5	14.4	15.3	15.8	14.9	15.4	14.4
	15.7	15.0	15.3	15.8	15.7	15.8	16.0	14.4
	16.0	15.3	15.0 15.1	—	15.7	15.5	15.9	14.8 15.0
	16.1	16.0	15.0	16.1	15.9	15.2	16.0	14.9
	[16.0	15.8	14.5	14.9	15.7	14.8	15.3	15.3
	15.8	15.4	14.4	16.0	15.8	15.0	16.0	14.8
	15.8	14.5	14.3	[15.5	15.7	15.0	15.8	14.5
	—	15.7	15.0	blue	15.4	blue	15.5	15.9
	16.1	15.0	14.5	15.3	15.9	15.3	15.4	14.4
	15.0	14.8	14.3	15.3	15.9	15.0	15.8	14.5
	15.3	15.0	14.0	15.1	15.4	15.0	15.6	14.9
	15.3 very irregular	15.3	14.5 14.5	16.0	15.7	15.0	15.8	14.7 14.5
	15.3	[16.1	14.5	15.8	15.4	14.2	16.3	15.0
	15.7	15.4	14.5	—	15.6	14.5	15.7	14.9
	[15.5	15.8	14.9	15.8	15.8	14.9	15.8	15.5
	15.3	15.1	14.7 14.7	16.1	15.5	15.0	[16.1	14.3

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MF

		2861	2722	999	5954	2536	2491
12688	2425612.329	16.0 15.8	15.5 15.7 15.7	15.0 15.0 15.8	16.3	14.5 14.4	15.9
12691	2425613.282	15.7 15.7	15.5 15.4 15.5	15.5 15.5	16.1	15.3 15.0	14.9
12694	2425613.380	15.5 15.4	15.6 15.3	— 15.0	Blun	15.3 15.3	15.2
12697	2425614.318 <i>Poor plate</i>	15.9	13.9 14.9	15.1 Blun	—	15.7	15.4
12699	2425614.383	16.0 16.1	14.2 14.4 14.8	15.5 15.3 15.4	16.2	15.3 15.4	15.2
12701	2425614.441	16.3 16.3	14.6 14.7	14.8 15.0	16.2 16.1	15.6 15.7	15.0
12703	2425615.324	16.0 16.1	14.2 14.4	15.7 15.5	16.2	15.8 15.7	15.9
12706	2425615.422	16.4 16.5	13.9 14.2	15.4 15.0	16.3	15.8 16.0	15.5
12711	2425616.283 <i>Blun plate</i>	16.0	14.5 15.0	15.0 14.9	—	15.8	15.7
12713	2425616.349	16.0 15.9	14.3 14.7 14.8	15.7 15.1	[16.1	15.9 15.9	15.9
12715	2425616.413	16.1 16.3	14.6 14.8	15.1 15.0	15.5	15.9 15.8	15.6
12723	2425617.348	15.6 15.5	14.7 14.6	14.6 14.9	()	15.3 15.4	15.9 16.0
12726	2425617.444 <i>poor plate</i>	— 15.6	14.6 14.5	— Blun	— Blun	—	—
12736	2425621.286 <i>Poor plate</i>	16.3 16.0	15.4 15.3	14.5 14.3	16.0	15.5 15.4	15.3
12738	2425621.350	[16.1 16.1	15.7 15.8	14.5 14.5	16.4	15.8 15.8	15.5
12741	2425621.448 <i>Poor plate</i>	[15.5 15.5	15.4 15.2	14.9	—	—	15.0
12742	2425622.412 <i>Poor plate</i>	—	—	—	—	—	—
12750	2425623.382 <i>Do not use</i>	[15.5 16.1	14.1 14.5	14.9 14.8	Blun	15.9 15.8	16.1
12756	2425624.285	16.1 16.0	14.9 14.5	15.1 15.7	—	14.6 14.4	16.1
12758	2425624.349	16.3 16.0	15.0 14.9	15.2 15.0	16.1	14.4 14.5	16.0
12760	2425624.415 <i>Do not use</i>	—	14.7	15.5??	—	—	—
12771	2425642.317	15.8 15.8	15.7 15.7	14.3 14.4	—	[15.5 15.5	15.0
12772	2425644.277	16.2 16.0	15.7 15.5	15.0 14.3	—	14.7 14.7	15.4
12774	2425644.344 <i>do not use</i>	—	15.0	14.8	—	—	—

952	935	2432	927	2358	905	2337	971	81
15.2	15.8	14.9	16.1:	15.8	15.3	15.4	14.5	
15.2:	15.4:	14.9	-blur-	-defect-	-blur-	15.3	14.6	
15.4	15.3	15.1	[16.1:	16.2:	16.0:	15.6	14.7	
15.3:	15.1	14.8	16.0	16.0	-blur-	15.8	14.9	
15.5 ^{mean} 15.7 ^{15.6}	14.9	14.5	16.0	15.8	16.0:	15.7	14.5	
15.4	15.0	14.8	15.4:	15.4	—	16.2	15.1	
15.4	14.9	14.3	15.3	15.1	15.4	15.8	14.7	
16.2	15.3	13.9	15.4	16.1	15.5	15.8	15.0	
[16.1:	15.4	13.8	15.7	15.4	15.3	16.0	14.8	
15.8:	16.0:	14.5	15.2:	15.5	15.5:	15.8	15.4	
16.3	15.7	14.2	15.3:	15.4	15.1	16.2	15.1	
[15.5	15.9	14.3	16.0:	15.7	14.8	14.8	15.4	
16.1:	15.6	14.4	-blur-	15.7	15.0	15.0	15.7	
15.4	15.5	14.3	15.9:	16.0:	-blur-	15.8	15.0:	
15.7	14.6	14.9	15.9:	15.3	14.9	15.4	14.5	
[15.5	14.9	14.8	16.1	15.7	15.4	15.9	14.9	
15.3	15.3	15.0:	15.3	15.4	15.0	16.0	14.6	
15.3	15.5	14.9	15.8	15.1	-blur-	15.7	14.5	
15.6	16.0	14.9	16.1:	15.8	15.5	14.9	14.7	
[15.5:	14.9	14.5	15.1	15.0	-blur-	16.0:	14.4	
16.0	15.2	14.8	[15.5:	15.7	14.5	15.6	14.8 - 14.7	

82

MF	H.V.	27	999	5954	2536	2491
12778 <i>very poor plate</i>	2861 [15.5 15.5	2722 15.5 [15.5 14.5	15.0 —	—	15.2 15.4	15.7
12784 2425645.346	16.0 16.0	15.3 15.2 14.6	15.4 15.2 15.1	16.4	15.5 15.4	15.2
12786 <i>Poor plate</i> 2425649.337	<i>Do not use</i>					
12794 2425650.273	16.4 16.3	14.7 15.3 14.9	15.0 15.0	16.3	14.6 14.4	15.4
12797 <i>Do not use</i> 2425650.371						
12805 <i>Poor plate</i> 2425651.303	[16.0 16.0	14.9 15.3 15.5	14.8 — 14.5	—	15.3 15.3	15.6
12862 2425677.251	15.6 15.5	15.8 15.8	14.8 14.7 14.8	- Run -	15.4 15.4	15.5
12890 <i>Poor plate</i> , <i>Do not use</i> 2425685.248						
12905 <i>Do not use</i> 2425687.249	13.7					
15007 <i>Do not use</i> 2426301.298	<i>use</i>					
15019 2426302.548	16.1 15.9	(#) 15.5 16.0 15.8	14.5 14.7 14.6	16.0	15.8 15.8	16.0
15033 <i>spectra plate</i> 2426309.481						
15038 <i>Poor plate</i> 2426347.270	[16.0 16.0	15.8 15.7	14.8 —	15.8	[15.5 15.8	15.9
15105 <i>Do not use</i> 2426591.637	<i>Do not use</i>					
16024 <i>Do not use</i> 2426593.611						
16037 2426593.611	[15.5 16.4	13.7 14.3 14.4 14.9	15.2 15.7 15.5 14.5	[16.1	14.9 15.0	15.6
16077 2426605.575	15.7	15.4 15.1	14.9 14.9	16.3	14.4	15.6
16082 2426607.604	16.3 16.3	15.8 15.6 14.6	14.6 14.5 14.9	—	15.3 15.6	15.4
16170 2426657.482	15.9 15.7	15.7 14.5	15.0 14.9	[16.1	14.3 14.5	15.8
16250 2426680.476	16.2 16.1	15.4 15.5 15.5	15.4 15.3 13.9	16.4	15.6 15.8	15.9
16282 2426687.454	[15.5 15.5	15.5 15.5 14.8	14.6 14.4 14.1	—	15.4 15.3	—
16324 2426710.409	16.1 16.1	15.3 15.1 15.5	14.1 14.3 14.5	16.0	15.3 15.5	16.0
16389 2426720.370	16.2 16.3	16.0 15.2 14.5	14.5 14.6 14.8	15.8	14.4 14.5	15.4
16455 <i>Poor plate</i> 2426763.322	15.0 14.9	13.9 14.2	14.3 14.9	16.1	[16.0 16.0	15.9

9.52	9.35	24.32	22.927	22.558	9.05	23.37	9.71
15.8:	15.6:	14.9 14.8:	15.2:	15.4	15.3	15.4	15.3 15.9
16.1	14.9	14.2 14.4 14.4:	16.0:	15.8	15.9	15.9	14.3 14.6 14.5
15.7	14.9	14.0 14.3 14.3	16.2	15.4	15.4	16.3	14.7 15.0 14.7
15.3:	15.4	14.5 14.3 14.6	15.4	15.4	15.4	16.0	14.5 14.8
15.9	15.4	15.0 14.6 14.9	15.8	15.8:	15.2	16.0:	14.5 14.3 14.5
15.5	15.1	14.5 14.3	15.8	15.8	15.9:	16.1	14.9 14.5
15.9:	15.8	15.1 15.4 14.6	16.0:	15.8	15.3	16.1	14.7 15.1
16.2	16.0	15.1 15.2 15.3	15.3	15.8	15.2	15.5	15.1 15.9 14.5
16.0	15.8	15.3 14.6 14.3	—	15.6	15.3	15.8	15.0 14.5 14.9
15.3	15.4	14.6 14.3 14.7	16.0	15.4	15.2	15.4	14.8 15.6
15.4	15.7	14.7	15.8:	15.8	15.5:	15.7:	15.4
16.0	15.3	15.0 14.5 14.3	16.2	15.7	15.3:	16.2	14.4 15.2 15.4
15.3:	15.2	14.5 14.2 14.3	—	15.4:	14.5:	—	14.7 15.0 14.5
16.2	14.5	14.2 14.4 14.4:	15.8	15.4	14.2	15.4	15.2 14.8 14.9
16.3	16.0	14.4 14.9	15.8	15.1	15.4	16.3	15.2 14.8 14.9
15.7:	15.8	14.4 14.9	16.0:	16.0:	15.8	16.0	14.9

84

MF

#.V.

2861

2722

999

5954

2536

2491

16578 242677.5287

14.5

14.91

16552 2426794.241

16.4:

14.7

15.7

—

15.9

16.0

16.2

14.9

15.6

15.8

16591 2426802.235

16.1:

14.6

14.7

16.0:

15.7

[16.0]

16.2

14.5

14.3

16.1:

15.8

17335 2426945.635

[15.5

15.6

14.1

16.0:

15.4

[16.0]

15.8

16.0

14.3

16.1:

15.5

17710 2427087.362

do not use

17793 2427129.294

do not use

15.6:

[15.5:

22485 2428433.526

15.9

14.5

15.2

16.3

14.5

15.4

16.2

14.9

15.3

14.6

B 56 570 26946.629

15.8

[16.1

15.7

16.1

15.9

16.0

56713 27011.454

16.0:

14.9

14.5

—

—

15.1

56729 27040.387

15.8:

15.7:

15.0

—

15.5

15.4

61364 2428429.588

16.4

[16.1:

14.3

16.3

15.3

15.8

952	935	2432	927	2358	905	2337	971
16.2:	14.9	14.6	[16.1:]	15.9	14.8	15.4	15.2
15.3	15.0	15.1	- Run -	15.8	15.4	16.1	14.7
15.3	15.3	15.0	[15.5:]	15.4	15.2:	[15.5	14.5
							15.4
16.3	15.3	14.2	15.9	15.4	15.4	16.2	15.4
< 16.1	15.3	14.5	16.0:	16.0	14.4	15.6/1	15.4
—	16.1	15.0	15.7	[15.5:]	15.0:	15.0	15.3
[15.5	[15.5	15.0	- Run -	—	- Run -	[15.5	[15.5:]
16.4::	15.7	15.3	15.4	15.4	14.2	16.3	15.6
							15.4

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B

No	JD	2861	2722	999	2536	2491	952
208	2412697.847	15.5	15.5	15.0	14.5	15.5	
20273	2412722.865	16.1	15.0	14.4	15.9	16.1	15.9
20834	2414252.815	16.0	15.3	14.3	14.4	13.9	14.9
56471	26924.638	16.2	14.6 14.4	14.7 14.5	14.4	15.5 16.2	15.3
495	26927.606	15.9	15.5 15.6	15.1? 14.8	15.3	15.4 15.8	15.5
506	26928.636	16.1	15.0 15.4	14.9 15.2	16.0	15.4 15.8	16.2
573	26930.644	16.1	14.3 14.2	14.7 15.0	14.3	16.0? 16.1?	16.1
515	26931.654	15.3	14.3 14.8	14.8? 15.0	15.0	15.5 15.5	
559	26945.616	15.9	14.9 15.3	14.5 14.4	15.3	15.5 16.1	15.3
582	26948.611	15.9	14.6 14.5	14.7 14.8	15.0	15.0 14.8	15.9
593	26949.618	16.1	14.6 14.9	14.9 15.0	14.3	15.5 14.9	16.0
603	26950.602	16.1	14.9 15.3	14.7 14.5	14.5	15.3 15.8	15.9
627	26955.578	15.9	14.2 14.3	14.3 14.3	14.5	14.8 14.9	15.7
637	26956.610	15.4	14.3 14.6	14.0 14.3	14.3	15.5 16.0	15.7
641	26960.601	15.6	15.9	15.0	16.0	15.8	15.4
662	26973.547		14.9 15.2?	14.6 14.9	15.5?		15.2?
671	26976.596	15.4	15.4 15.5	14.8 15.3	15.4	15.1 15.2	15.2?
689	26980.554	15.4	14.5 14.4	14.3 14.2	15.5	15.4? 15.5	15.7
699	26989.533	15.9	14.6 14.7	14.5? 14.4	15.4	15.1? 15.0	15.5
737	27041.387	15.9	15.4 15.3	15.4 15.7	15.6	15.5? 15.0	15.3
778	27070.326	15.4	14.6 14.9	14.3 14.4	14.5	15.4? 15.5	15.5
18383	2413948.586		15.7	14.4	14.9	16.1	
20846	2414253.734	16.1	15.6	15.0	14.9	15.4	16.2
24468	2414962.768	15.8	14.9	15.0	15.3	15.8	16.1
40901	2418587.856			14.5	15.8	15.4	

935	2432	927	2358	905	2337	971	5954
	15.0	14.5	15.8	14.6	15.4	14.9	
14.4	14.6	[16.1	15.8	-blue-	15.5	15.3	
16.0	14.5	-blue-	15.0	-blue-	16.0	15.0	16.0
	14.6					14.8	
15.7	14.7	15.0	15.3	14.3	15.4	14.4	16.0
	14.4					14.8	
15.8	14.3	15.9	15.8	15.2	15.9	15.5	
	14.3					15.4	
14.4	14.2	15.7	15.4	14.7	14.3	15.9	16.1
	14.5					14.6	
15.3	14.5	[16.1	15.7	15.4	15.3	14.4	16.0
	14.7					13.9	
15.1	14.9	15.5	15.2	[15.5	15.2	14.4	
	14.6					14.8	
15.4	15.0	16.1	15.9	14.7	16.0	15.3	
	14.3					14.9	
16.2	14.5	15.0	14.9	14.7	15.3	15.1	16.1
	14.5					14.7	
15.0	14.3	15.3	15.4	14.4	14.5	14.7	15.8
	14.5					14.0	
14.7	14.2	15.4	15.8	14.9	15.4	14.1	
	14.8					15.0	
15.1	14.9	15.2	15.8	15.7	15.9	15.0	[16.1
	15.3					15.4	
14.4	15.0	14.9	15.4	14.5	14.3	15.3	
15.9	14.4	[16.1	15.3	14.5	15.9	14.5	15.7
	14.6					14.7	
	14.3			14.5		15.1	
	14.5					15.2	
15.4	15.0	[15.5	[15.5	15.5	14.5	15.5	15.8
	14.1					14.8	
15.3	14.2	15.4	15.4	15.0	16.0	14.5	
	14.6					14.7	
15.3	14.9		15.3	-blue-	16.0	15.0	
	14.8					15.3	
15.0	14.9	15.4	15.0	14.5	15.1	15.2	
	14.3					14.9	
14.5	14.3	[15.5	[15.5	[15.5	[15.5	14.9	
15.7	14.4	15.0	15.0	14.5		15.4	
15.8	14.4	15.5	15.6	15.4	15.7	15.3	16.0
15.8	14.4	16.0	15.3	15.2	15.8	15.4	16.0
15.5	15.8	15.0	15.5	14.3	15.8	15.7	

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NIF

J.D.

2752

2727

double

2619

2790

double

2773

2685

8342 24223799.561

8411 23828.524

9836 24412.771

9930 24488.598

9934 24489.636

9949 24492.615

9956 24493.606

9963 24495.666

10060 24547.543

10062 24549.570

11096 2425176.491

11104 2425177.488

11115 2425179.516

11145 2425189.578

11163 2425201.492

11239 2425234.356

11277 2425264.288

11333 2425288.278

12468 25543.552

12485 25559.456

1248724 25559.517

12499 2425560.486

12501 25560.547

12509 25561.509

15.8

-defect-

[16.1

16.3

[16.1

[16.1

16.2

[16.1

16.3

16.1

15.9

15.8

15.8

15.8

16.0

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[16.1

15.6

16.3

16.0

16.3

-blue-

-blue-

15.8

[16.1

16.1

15.3

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15.7

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[16.1

15.8

16.2

-blue-

16.2

16.1

-blue-

16.2

15.8

15.8

16.1

-blue-

15.9

[16.1

16.3

15.6

16.3

16.3

[16.1

16.1

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16.2

16.4

16.4

16.3

16.3

16.2

16.1

16.3

15.9

16.1

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16.2

15.4

16.1

[16.1

15.8

15.4

16.1

15.8

16.3

15.0

16.1

15.4

16.0

15.8

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15.4

15.4

15.7

[16.1

15.0

15.9

15.7

16.1

15.3

15.7

16.0

15.9

[16.1

15.9

90

MF

		2752	2727	2619	2790	2773	2685	27
12513	25562.419	—	16.0	15.9	—	16.2	15.3	15
12524	25563.546	—	16.3	16.2	15.7	16.2	15.4	1
12532	25564.474							
12544	25565.514	—	16.3	16.2	16.3	15.4	15.7	5
12552	25567.416	15.8	15.6	15.7	16.1	15.8	16.1	1
12555	25567.486	16.1	15.8	15.9	16.2	15.3	16.0	15
12563	25568.454	—	15.8	15.9	16.0	15.4	15.0	15
12577	25570.542	—	16.1	16.0	16.0	15.8	15.4	15
12584	2425582.363	16.3	16.1	16.2	16.2	16.1	15.0	16
12595	2425586.520	—	—	16.0	16.1	15.4	15.8	16
12610	2425589.586	16.0	16.0	15.8	16.0	—	15.3	16
12620	2425592.391	—	16.0	15.9	—	15.8	16.0	1
12630	2425593.316	—	16.1	16.0	16.1	16.0	16.1	1
12639	2425593.571	—	—	15.5	—	—	16.1	1
12643	2425594.386	—	16.1	16.0	—	16.1	15.3	11
12650	2425595.302	16.1	16.3	15.8	—	—	15.0	16
12664	2425596.389	15.8	15.4	— defect —	16.0	16.0	15.3	15
12674	2425598.447	—	15.8	16.0	—	15.4	16.0	1
12680	2425602.526	16.3	15.4	16.1	16.3	—	15.1	15
12688	612.329 2425604.282	—	16.0	16.1	16.3	15.9	15.8	16
12691	2425613.282	—	—	—	16.1	—	16.1	—
12694	2425613.380	—	16.3	16.1	16.0	15.4	15.9	16
12697	2425614.318	—	15.2	16.0	16.1	16.0	15.0	16
12699	2425614.383	—	15.4	16.3	—	16.0	14.9	11

Seq I	Seq III	Seq I	Seq IV	Standard 6	Standard 6	Seq II 6
2727	971	2752	999	2790	2685	2358
16.0	15.8	—	14.5	—	15.3	15.3
15.6	15.5	—	15.0	14.6	15.2	15.5
16.3	15.1	—	14.2	15.7	15.4	15.4
16.1	15.6	16.3	14.2	15.7	15.2	15.2
16.3	14.4	—	14.5	16.3	15.7	15.8
16.3	14.6	—	15.1	16.3	15.7	15.9
15.6	14.4	15.8	14.8	16.1	16.1	15.7
15.2	14.8	15.8	14.6	16.0	16.0	16.0
15.8	15.0	16.1	15.4	16.2	16.0	15.7
15.8	15.1	16.2	15.2	16.3	16.0	15.9
15.8	14.9	—	14.9	16.0	15.0	15.9
15.8	15.6	16.0	14.6	16.1	14.9	15.9
16.1	15.3	—	15.3	16.0	15.4	15.7
15.9	15.8	—	15.0	15.9	15.2	15.9
16.1	14.8	16.3	14.8	16.2	15.0	15.8
16.3	15.5	16.3	15.2	16.3	14.8	15.5
16.0	14.5	—	—	16.1	15.8	15.7
16.0	14.7	—	14.1	15.8	15.7	16.1
16.0	15.9	16.0	14.7	16.0	15.3	15.4
16.0	15.8	15.9	14.8	16.0	15.1	15.4
16.0	14.4	—	14.9	—	16.0	15.9
15.8	15.1	—	15.5	—	15.7	16.0
16.1	14.5	—	15.3	16.1	16.1	15.9
16.0	14.6	—	15.7	16.3	15.8	16.0
16.2	14.9	—	15.4	—	16.1	15.4
16.2	14.7	—	14.6	—	15.8	15.4
16.1	14.5	—	14.9	—	15.3	15.7
16.2	14.7	16.1	15.1	16.3	15.1	16.1
16.3	15.0	16.6	14.8	—	15.0	15.4
16.1	14.7	16.0	14.6	—	15.1	15.4
15.4	14.9	15.8	14.9	16.0	15.3	15.6
15.7	15.3	16.1	15.1	15.9	14.9	15.9
15.8	15.5	—	14.2	—	16.0	15.8
16.3	15.6	—	15.2	—	16.0	15.9
15.4	14.3	16.3	15.3	16.3	15.1	15.5
15.8	14.7	16.0	14.7	16.0	15.1	15.5
16.0	14.6	—	14.8	16.3	15.8	15.8
16.1	14.6	—	15.1	16.3	15.7	15.9
—	14.9	—	—	16.1	16.1	—
—	15.1	—	15.8	16.1	15.9	15.9
16.3	15.1	—	15.0	16.0	15.9	15.9
16.2	14.8	—	15.5	16.3	15.9	16.1
15.8	15.0	—	—	16.1	15.0	16.0
16.1	15.0	—	16.0	16.0	14.9	16.1
15.4	14.7	—	15.3	—	14.9	15.8
15.1	14.7	—	15.3	16.3	14.9	16.0

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MF

2752	2727	2619	2790	2773	2685
2701 2425614.441	15.5	14.11	16.1	15.0	
2703 2425615.324	15.8	16.2	16.3	15.9	15.0
12706 2425615.422	16.0	16.1	16.2	15.8	15.3
12711 2425616.283	14.1	16.1	16.1	15.9	15.7
12713 2425616.349	16.1	16.0	15.8	15.0	15.9
12715 2425616.413	16.3	15.8	16.0	15.8	15.5
12723 2425617.348	15.9	16.3	15.8	15.8	15.7
12726 2425617.444		15.5	16.1		
12736 2425621.286	15.8	16.0	16.1	16.0	15.0
12738 2425621.350	15.8	16.0	16.2	16.2	15.0
12741 2425622.412	16.0	15.9	16.0	15.0	15.0
12750 2425623.382	16.3	16.2	16.0	15.3	15.4
12756 2425624.285	16.1	16.1	15.8	16.1	15.8
12758 2425624.349	15.9	16.1	15.9	16.0	15.9
12771 2425642.317				15.0	15.5
12772 2425644.279	15.8	16.0	16.1	16.0	16.1
12778 2425645.346	16.2	16.1			16.0
12784 2425649.272	16.3	16.2	16.0	15.9	15.7
12794 2425650.273	15.5	16.2	16.1	16.0	15.8
12805 2425651.303	15.8	16.0	15.9	16.0	16.1
12862 2425677.251	16.0	16.0	16.0	15.8	15.9
15019 2426302.548	16.0	16.0	16.1	16.0	15.7
15038 2426309.481		16.0		15.8	16.0
16037 2426593.611	16.3	15.9	16.3	16.1	16.3

seg I	seg III	seg I	seg III	standard	seg II
2619	2722	2752	2861	2773	2337
described	14.7		14.3	described	16.2
not to	14.6	—	16.1	not to	16.2
measure	14.4		16.1	measure	15.8
for this	14.7	—	16.1	for this	16.0
type of	14.2		16.5	type of	15.8
comparison	14.3	—	16.2	comparison	16.0
since it	15.0		16.0	since it	16.0
is difficult	15.2	—	16.1	is a close	16.0
to measure	14.8		15.9	position	15.8
or MF	14.7	—	16.0	MF	16.0
estimates	14.8	16.3	16.3	plates	16.2
may not	15.2	16.2	16.3	should	16.2
be used	14.6	15.8	15.6	to measure	15.0
at all.	14.5	15.9	15.7	may	15.5
	14.5		15.6	omit	15.8
	14.7	—	15.8	MF	16.1
	15.3		16.0	measures	15.4
	15.7	—	16.0	entirely	15.9
	15.8		15.1		15.9
	15.6	—	16.3		15.9
	15.2		15.5		16.0
	15.6	—			
	14.5		16.1		16.0
	14.8	—	16.0		16.2
	14.9	16.1	16.0		15.7
	15.3	15.8	16.0		15.5
	14.9	15.9	16.0		14.9
	14.8	16.1	16.3		15.1
	15.7		15.8		15.8
	15.8	—	15.7		16.2
	15.5		16.0		15.8
	15.7	—	15.6		15.9
	15.5		15.5		15.4
	15.8	—			15.2
	15.2		16.0		15.9
	15.5	—	16.1		16.0
	15.3		16.3		16.3
	15.5	—	16.3		16.0
	15.5		16.0		16.0
	15.9	—	15.8		16.0
	15.8		15.5		16.0
	16.0	—	15.6		16.3
	15.8	16.1	15.9		16.1
	15.6	—	16.0		16.1
	15.7	—	16.0		16.1
	15.7	—	16.0		15.5
	15.4	—	16.4		15.6
	15.0	—	16.2		

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M/F

	27 52	27 27	26 19	27 90	27 73	26 85
16077 2426605.575	—	16.3	16.0	—	16.2	15.9
16082 2426607.604	—	16.2	16.3	16.2	15.4	16.3
16170 2426657.482	—	16.0	15.8	—	15.8	15.9
16250 2426680.476	—	15.8	16.0	15.9	16.0	15.0
16282 2426687.454	—	16.0	15.8	15.4	—	14.7
16324 2426710.409	16.2	15.9	16.2	16.2	15.9	15.8
16389 2426720.370	16.4	16.3	16.1	16.2	16.3	14.9
16455 2426763.322	—	15.8	16.0	16.0	16.0	16.0
16518 2426775.287						
16552 2426794.241	—	16.1	16.2	[16.1	[16.1	15.9
16591 2426802.235	—	16.3	15.9	16.2	16.1	16.0
221 17335 2426945.635	—	—	15.5	—	16.0	15.8
22485 2428433.526	—	16.3	16.2	16.3	16.4	15.4
B						
56570 26946.629	—	16.0	16.1	16.3	16.2	16.3
56713 27011.454	—	—	—	15.8	16.0	—
56729 27040.387	—	—	—	—	15.5	15.4
61364 2428429.588	16.0	15.7	15.8	16.2	15.4	15.5

2617 2700

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B

w. \downarrow D		2752	2727	2619	2790	2773	2685
208	2412697.847	—	- Plan -	15.7	—	—	16.0
20273	2412722.865	—	[16.1	216.1	16.0	16.0	15.7
20834	2414252.815	—	[16.1	16.0	[16.1	—	15.7
56471	26924.638	—	15.9	16.0	15.8	15.7	15.3
495	26927.606	16.0	15.9	16.0	16.0	15.9	15.8
506	26928.636	16.2	16.0	15.8	16.2	16.2	15.9
513	26930.644	—	15.8	15.8	15.9	15.8	15.4
515	26931.654	—	Plan	—	—	—	15.2
559	26945.616	—	[16.1	16.1	15.4	15.9	16.0
582	26948.611	16.2	16.0	15.9	16.3	16.1	15.0
593	26949.618	15.9	16.0	16.0	[16.1	15.8	14.5
603	26950.602	—	- Plan -	16.0	15.8	15.6	15.4
627	26955.578	15.8	15.9	16.0	15.8	15.3	14.9
637	26956.610	—	16.1	15.9	15.9	defect	14.9
641	26960.601	—	16.0	15.8	15.9	15.8	15.9
662	26973.547	—	—	15.5	—	—	15.4
671	26976.546	—	15.9	—	—	—	15.8
689	26980.554	—	16.0	15.8	—	[16.1	[16.1
699	26989.533	—	15.4	16.0	16.0	16.0	15.3
737	27041.387	15.8	—	16.0	—	16.0	15.5
778	27070.326	—	—	—	15.2	15.4	15.6
18383	2413948.586	—	—	- Plan -	—	—	15.8
20846	2414253.734	—	16.2	15.9	15.8	15.8	15.2
24468	2414962.768	15.9	16.2	15.8	16.3	15.3	15.8
40901	2415587.856	—	15.7	15.8	16.0	15.7	15.8

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Transfer sequence measured on MF 12723

	1st	2nd	adjusted mean	
I				
a	13.9	14.1	14.0	
b	14.3	14.4	14.4	
c	14.7	14.8	14.8	
d	15.3	15.3	15.3	
e	15.8	15.8	15.8	16.0
f	16.2	16.3	16.2	16.3 16.9

	omitted runs to base		
II			
a	14.2	14.0	14.1 ^{column} + ^{twice}
b	14.8	14.7	14.7
c	15.0	15.2	15.1
d	15.4	15.4	15.4
e	15.8	15.7	15.8
f	16.4	16.3	16.3

III			
a	13.9	13.9	13.9
b	14.4	14.3	14.4
c	14.9	14.8	14.9
d	15.3	15.3	15.3 15.4
e	15.9	15.8	15.9 15.8
f	16.4	16.2	16.3

II a			
a	13.8	13.9	13.8
b	14.3	14.5	14.4
c	14.8	14.9	14.8
d	15.4	15.3	15.3
e	15.7	15.8	15.8 15.7
f	16.0	16.2	16.1

Re measure	HV 2432
A [✓] 12290	14.2
A [✓] 12788	14.2
A [✓] 7096	14.5
A [✓] 15083	14.4
A [✓] 8211	14.4
A [✓] 14315	14.9
A [✓] 15878	14.8
A [✓] 11713	14.9
A [✓] 16714	14.8
A [✓] 16716	14.6
A [✓] 13129	15.1
A [✓] 14093	14.9
A [✓] 11586	14.9
A [✓] 8561	14.7
A [✓] 17249	14.6
A [✓] 12320	14.5
A [✓] 13140	14.8
A [✓] 15036	14.3
A [✓] 17294	14.5
A [✓] 16230	14.4
A [✓] 16310	14.4
A [✓] 7123	14.4
A [✓] 15266	14.4

<i>measurements</i>	HV 2432
A [✓] 2193	15.0 <i>very close to edge</i>
✓ 18169	15.0
✓ 18847	14.9
✓ 17151	14.6
✓ 17116	14.4
✓ 18170	14.7
✓ 17916	14.6
✓ 3348	14.5
✓ 14366	15.0 <i>very close to edge</i>
✓ 18022	14.7
✓ 17174	14.5
✓ 14719	15.0 ;
✓ 17978	14.7

MLM (20)	MR (VI)	MLM (18) trans on MF 4 DH	MLM (21)	DH (61)	MLM (37) MR (VI)	101
952	935	2432	927	2358	905	971
15.3	15.2	14.7	15.6		14.9	15.3 15.2
15.2	14.9	14.7	15.3	15.9	15.5	15.5
15.6	14.6	14.8	15.7	15.7	15.3 15.3	15.2 15.3 15.3
15.8	14.7	14.7	15.9	15.5	15.3	14.8
15.7 14.7	15.8 15.6	14.4	15.0	15.8	15.3 14.8	14.8 14.9
14.9	14.6 14.8	14.5	15.0 15.1	15.5	15.9	15.8 15.9 15.8
15.4?	15.2	14.5	15.4		15.6	15.7
15.4	15.3	14.4	15.5	15.9	15.5	15.8
15.8	15.5	14.7	16.0		14.3	15.9
16.0	15.8	14.5	15.9	15.5	14.4	15.5? 15.6
15.1	15.1	14.9	15.0		15.0	16.1 16.0
15.1	15.0	14.8	15.1	15.9	15.2	16.0
15.1	15.4	14.7	15.7		15.5	14.9 14.9
15.2	15.3	14.7	16.0	15.9	15.5	15.0
15.8	14.4	15.0	15.2		14.5	15.4? 15.5
15.9	14.9	15.0	15.0	15.9	14.6	15.6
15.6	15.1	14.5	14.9		15.5	15.2 15.3
15.7	15.0	14.9	15.0	16.0	15.6	15.6
15.0	15.0	14.9	15.4		15.5	15.8 15.7
15.0	15.0	14.8	15.7	15.4	15.6	15.9
15.0	15.1	14.9	15.5		15.5	15.8 15.8
15.1	14.8	14.9	15.4	15.5	15.6	16.0
15.7	15.8	14.5	16.4		14.3	15.3 15.4
15.7	15.9	14.5	16.3	16.2	14.5	15.6
15.8	15.8	14.5	15.9		14.5	15.4 15.4
15.7	15.4	14.5	16.3	16.0	14.5	15.5
15.8	15.7	14.5	15.8		14.4	15.4 15.2
16.9	16.8	14.5	15.9	16.0	14.5	15.4
15.8	15.7	14.5	15.2?		14.4	15.4 15.4
15.8	15.9	14.5	15.9	16.0	14.3	15.6
16.1	14.9	14.4	15.8		15.3	16.1 16.0
16.0	14.9	14.5	15.5	15.5	15.5	15.9
15.3	15.5	14.5	15.8		14.9	15.3 15.4
15.5	16.7	14.6	16.0	15.5	14.7	15.6
15.0	15.4	14.5	15.1		14.5	15.4? 15.6
15.0	15.6	14.5	16.1	15.4	14.5	16.0
15.2	15.8	14.9			14.9	15.5
15.3	15.6	14.4	15.0	15.6	14.6	15.9
15.3		14.9	14.9?		14.5	
15.3		14.8	14.7		14.5	
15.1	14.5		15.8?		15.3	
15.2	14.5	15.3	16.0	15.3	15.3	
15.9	14.5	14.4	15.5		15.4	15.6 15.3
16.0	14.9	14.3	15.8	15.5	15.4	15.9
15.3	14.7	14.5	15.5		14.9	15.7 15.7
15.4	14.7	14.3	15.3	15.5	14.6	15.9
15.8	15.4 15.4	15.0 14.7	15.8	15.9	15.0	15.7
		15.0 14.7	16.1	15.9	14.6	15.7
					15.7	

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A

hr.		2861	2722	999	5924	2536	2491
12290	23487.568 <i>traced phosphate</i>	15.6 16.01 15.8	15.1	15.0	<i>blind</i>	15.5 15.5 15.7 15.5	14.6 14.5 15.0
12292	23489.538	15.6 16.0	15.1	14.9	16.1	15.0 14.6	14.5 15.1
12294	23490.573 <i>missing</i>						
12295	<i>unclear</i>					15.7	15.6
12320	23527.509 23527.536	16.1 16.2 15.5	15.2	15.7	16.0	15.4 15.0 14.9	15.5 15.6 15.8
12326	23529.536	15.6 16.0	15.1	14.5	15.7	15.7 15.1	15.0 15.0
12648	242366.870 <i>scratched</i>	16.2 15.6	15.6	14.8	15.8	14.6 14.6	15.1
12697	2423681.882 79	15.7 16.1	15.2	15.1	16.1	15.1 15.3	15.5 15.3
12699	2423692.878 5	16.0 16.0	15.5	15.0	15.7	15.4 15.3	15.7 15.8
12700	2423683.874 1	16.0 16.0	15.6	14.9	15.4	15.3 15.8	15.8 15.6
12782	2423705.772 <i>traced</i>	16.2 15.8	15.1	15.2	15.9	15.6 14.5	15.7 15.8
12788	2423706.776 70	15.7 15.9	15.4	14.6	16.0	14.5 14.6	15.9 15.0
12830	2423732.672 <i>traced</i>	16.3 —	15.7	14.6	15.6	14.4 15.2	15.0 15.7
12834	2423734.804 1	16.6 16.0	15.7	14.8	15.8	15.4 15.4	15.8 14.9
12848	2423737.850 47	16.3	15.1	15.3	15.5	15.3	14.9
12851	2423738.787	16.4 16.0	15.2	15.2	15.2	14.8 15.2	15.0 15.4
12855	2423740.793 <i>traced</i>	16.1 —	15.6	14.7	15.9	15.0 15.4	15.7 15.7
12859	2423741.836 4	—	15.9	14.7	16.1	15.4	15.7
12862	23742.852						
12865	23752.638 <i>traced</i>	16.1 16.3 15.5	15.1	14.7	16.1	15.0 15.4	14.9 15.3
12880	23875.527 <i>traced</i>	15.6	15.2	14.9	15.6	15.5	15.4
12883	23876.529 <i>plate</i>	— 15.8	14.9	14.8	—	— 15.4	— 15.8
12901	23900.501	16.3	15.6	14.7	16.1	14.9	15.8

952	985	2432	927	2358	905	2337	
15.1	14.5	14.3	15.2		15.2	15.6 15.6	
15.2	14.5	14.0	15.3	15.9	15.1	15.8	15.0
14.9	15.1	14.5	15.3		15.5	15.1 15.2	
15.0	14.6	14.7	15.8	15.9	15.6	15.5	15.7
14.8	15.4	14.6	15.9		15.8	14.9 15.0	
15.0	15.7	14.7	16.0		15.7	15.6 15.7	
15.0	15.7	14.8	15.9	15.6	15.7	15.9	15.2
15.5	14.8	14.5	15.0		15.4	15.8 15.8	
15.6	14.6	14.5	15.2	15.9	14.9	16.0	14.7
15.6	15.4	14.7	15.7		16.0	15.6 15.4	
15.6	15.6	15.0	15.3	15.6	15.5	15.6	14.8
15.0	15.4	14.2	15.3		15.8	15.4 15.3	
15.1	15.7	14.2	15.2	15.8	15.6	15.5	15.4
15.7	15.7	14.5	15.1		15.4	15.0? 15.0	
15.5	15.9	14.5	15.4	15.9	15.4	15.1	15.5
15.8	15.6	14.5	15.8		15.1	15.3 15.5	
15.8	15.6	14.5	15.9	16.0	14.9	15.5	15.5
15.8	14.8	14.5	15.8		15.8	15.7 15.8	
15.9	14.7	14.2	15.7	15.9	15.7	15.8	14.4
15.7	14.9	14.3	15.8		15.4	16.1 15.8	
15.4	14.8	14.1	16.0	15.3	15.6	15.9	14.7
15.8	15.7	14.7	15.3		14.9	15.8 15.8	
15.8	16.3	14.9	15.0	15.6	14.7	15.6	14.8
15.8	14.5	14.7	15.4		14.6	16.1 16.5	
15.8	14.8	14.6	15.4	15.6	14.5	16.0	15.3
15.1	15.4	14.5	16.2		15.0	14.9 14.9	
15.0	15.4	14.4	16.1	15.7	15.0	15.1	15.2
15.0	15.6	14.5	16.0	15.9	15.1	15.5	15.5
15.4	14.7	14.8	15.1		15.7	16.0 16.0	
15.4	14.8	14.7	14.9	15.6	15.9	16.0	defect
15.8	14.5	14.7	15.4		15.4	15.9 16.4	
15.8	14.8	14.9	15.3	15.6	15.5	16.0	15.1
16.2	15.4	14.7	16.1		15.8	15.7 15.4	
16.0	15.7	14.7	16.0	15.6	15.6	15.5	14.8
15.8	14.6	15.0	15.3		14.5	15.3 15.1	
15.8	14.8	15.0	15.4	15.6	14.7	15.5	15.0
—		14.6	14.9			—	
—	14.7	14.7	14.7	—	14.5	—	—
14.9	15.4	14.4	15.4		14.5	16.0 16.8	
14.9	15.7	14.2	15.0	15.6	14.3	16.0	14.7

104

A

		2861	2722	999	5924 ⁵	2536	2491
		—				15.4	15.8?
2919	23907.477	—	15.5	15.2	15.9:	15.4	15.8
<i>from plate</i>		15.8				14.8	14.5
13095	24051.819	16.2	15.1	15.2	15.3:	14.8	14.9
13100	24053.787						
<i>8710</i>		15.9				15.1	15.6
13108	24056.833	15.8	15.6	14.7	16.1	14.5	15.8
		16.4				15.3	14.8
13111	24065.804	[16.3	14.4	14.9	16.1	15.0	14.9
		15.9				15.5	14.9
13129	24081.749	16.0	14.7	14.5	15.6	15.5	15.3
		—				15.1	15.8
13140	24084.690	16.3	15.2	14.9	16.0	15.0	15.8
		15.8				15.7	15.2
13414	24353.870	15.6	15.2	14.9	15.7	15.4	15.4
		16.3				15.8	15.4
13444	24360.895	[16.6	16.0	14.4	15.9	15.8	15.4
		16.1				15.8?	15.2
13480	24380.812	16.5	15.0	14.8	16.1	15.6	14.9
<i>rainy</i>		15.9				15.1	14.9
13531	24408.850	16.0	15.7	14.7	15.8	14.7	15.0
		16.0				15.9	15.5
13558	24418.800	16.4	14.6	14.6	15.8	15.8	15.7
		—				14.6	15.5
13585	24439.798	—	15.5	14.8	[15.3	14.5	15.4
<i>from plate</i>		15.9				15.7	15.8
13607	24462.726	15.9	15.6	14.5	15.2	15.5	15.9
		15.8				15.6	14.9
13623	24501.614	15.5	15.2	14.8	15.8	15.4	14.9
		16.2				14.8	14.9
13644	24637.498	16.5	15.1	15.0	16.2	14.8	15.1
<i>image changed</i>		15.8				14.6	15.2
14093	24802.831	15.5	15.9	14.7	16.2	14.4:	15.0
		16.2				14.5	15.0
14106	24821.605	[16.6	15.2	14.7	16.1	14.6	14.9
		16.1				15.5	15.4
14108	24824.683	16.4	16.0	14.8	15.7	15.4	15.6
14201	25850.638	16.0	15.6	15.1	15.7	15.3:	15.0
14252	25886.539	16.4	15.3	14.8	15.5	14.9	15.6
14315	25915.512	16.4	15.2	14.8	16.1	15.9	15.4
<i>from plate images</i>							
14397	25952.512	16.4	14.1	15.1	15.9	15.8	15.7
<i>from 2 rows</i>							
14485	25997.359	16.3	15.7	15.1	15.5	15.7	16.0
14531	26011.336	[16.6	15.3	14.4	15.8	15.8	15.9

952	935	2432	927	2358	905	2337	971
15.3	—	15.0	15.0		15.6?	16.1	
15.5	15.8	15.0	15.2	15.5	15.5	15.9	15.5
15.1	14.9	14.7	15.3		15.0	15.9	16.0
15.0	15.1	14.6	15.4	16.0	15.0	16.0	14.9
15.7	15.4	14.6	15.0		15.0	15.8	16.4
15.8	15.8	14.5	15.0	16.0	14.8	16.0	15.6
15.8	15.0	14.5	15.4		14.0	15.8	15.8
15.6	15.1	14.4	15.3	16.0	14.4	15.8	15.7
15.0	14.9	15.0	15.5		15.3	15.1	14.9
15.0	15.2	15.3	15.8	15.8	15.0	15.5	15.3
15.4	15.8	14.8	16.2		15.8	16.2	16.5
15.4	15.9	14.9	16.2	16.0	15.2	16.0	15.6
15.7	15.6	14.6	15.7		15.4	15.8	15.8
15.8	15.6	14.7	16.0	15.5	15.2	15.9	15.5
15.0	15.4	14.5	15.7		15.3	15.7	15.8
14.8	15.8	14.3	15.8	15.4	15.2	15.8	15.1
15.5	15.1	14.2	15.3		15.8	16.1	16.1
15.0	15.4	14.2	15.0	15.5	15.6	16.0	15.2
15.1	15.4	15.0	15.9		14.5	15.3	15.8
15.0	15.5	14.9	14.3	15.6	14.6	15.9	15.6
15.3	15.4	14.7	15.0		15.3	15.4	15.4
15.0	15.4	14.8	14.8	16.0	14.9	15.5	15.7
15.6?	15.2	14.8	15.2		15.1	15.3?	15.7
15.5	15.3	14.8	15.3	15.7	14.7	15.6	14.4
15.3	15.1	14.6	15.1		15.5	15.9	15.9
15.4	15.4	14.9	15.6	15.6	15.5	16.0	15.5
15.0	15.3	14.5	15.2		15.4	15.8	15.4
14.9	15.5	14.5	15.0	15.6	15.5	15.4	15.5
15.3	15.4	14.6	15.4		15.1	15.1	14.9
15.3	15.7	14.8	15.4	15.9	14.4	15.4	15.0
15.7	14.9	14.9	15.2?		14.7	15.5	15.4
15.8	14.9	14.7	15.0	15.6	14.8	15.6	14.7
15.7	15.6	14.5	15.9		15.8	14.9	15.0
15.6	15.7	14.8	16.3	15.5	15.5	15.1	14.3
16.3	15.1	15.0	15.1		14.3	15.8	16.1
16.3	15.5	15.0	15.0	16.0	14.2	15.8	15.2
15.7	15.3	14.9	15.4	15.6	15.6	15.6	15.6
16.0	15.0	14.8	15.7	15.9	15.7	15.5	15.1
15.9	15.6	15.2	15.8	15.6	14.7	15.5	15.2
16.0	15.0	14.7	16.2	15.6	15.6	15.9	15.5
15.0	16.2	14.5	16.0	15.2	14.6	15.6	15.4
15.9	14.9	14.4	16.1	15.5	14.7	15.8	14.5

106

A

no

2861

2722

999

5924

2536

2491

9

4611

26055.296

16.5

15.3

14.8

16.1

15.7

14.9

16

4625

26060.243

16.6

15.8

14.9

broken plate

15.4

15.8

1

14968

26245.582

16.0

15.7

15.1

16.2

15.5

15.8

1

14985

26264.557

15.6

15.0

15.0

15.8

15.5

15.4

15

15009

26274.482

15.2

14.8

15.1

15.7

15.8

14.4

15

15022

26294.361

15.2

14.8

15.1

15.8

15.4

15.4

15

15023

26298.498

15.2

14.8

15.1

15.8

15.4

15.4

15

15024

26299.440

15.2

14.8

15.1

15.8

15.4

15.4

15

15030

26302.428

15.2

14.8

15.1

15.8

15.4

15.4

15

15031

26302.487

15.2

14.8

15.1

15.8

15.4

15.4

15

15032

26302.530

15.2

14.8

15.1

15.8

15.4

15.4

15

15036

26303.577

16.3

15.7

14.6

15.5

16.0

16.0

14

15039

26304.355

15.6

15.0

14.7

15.3

16.0

15.7

15

15041

26308.518

15.6

15.0

14.7

15.8

16.0

15.4

16

15048

26309.501

16.0

15.6

14.8

15.9

15.3

15.7

16

15049

26309.501

15.6

15.7

14.9

15.5

16.0

15.4

15

15055

26312.385

15.6

15.7

14.9

15.9

15.9

15.9

15

15060

26313.312

15.6

15.7

14.9

15.8

15.9

14.6

14

15062

26319.329

15.6

15.1

15.1

15.8

14.6

14.7

14

15064

26322.343

15.6

15.3

15.1

15.7

15.1

15.0

15

15070

26323.337

15.6

15.3

15.1

15.7

15.1

15.0

15

15075

26328.446

15.6

15.3

15.1

15.7

15.1

15.0

15

15080

26329.398

15.6

15.3

15.1

15.7

15.1

15.0

15

15083

26330.340

15.6

15.3

15.1

15.7

15.1

15.0

15

15086

26334.368

15.6

15.3

15.1

15.7

15.1

14.9

15

952	935	2432	927	2358	905	2337	971
16.0	15.6	14.2	16.0	15.9	15.1	16.0	15.6
16.1	14.9	15.0	15.2	15.7	15.3	15.9	15.2
14.9	15.0	14.9	16.3	15.6	15.1	15.7	15.0
14.9	14.7	14.9	15.8	15.6 15.8	15.9	15.6	14.8
15.3	15.4	14.5	16.2	15.2 15.9	14.7	16.0	15.1

14.9	15.9	14.1	16.0	15.7 15.1	15.4	15.5	15.2
15.2	15.8	14.5	16.1	15.4 15.6	15.5	15.0	15.1
16.2	15.0	14.9	15.0	16.3 16.0	14.7	16.1	14.7
15.5	15.0	14.9	15.0	15.9 15.9	14.7	16.0	14.8
14.9	15.9	14.9	15.8	15.9 15.7	15.6	15.5	15.0
15.3	14.8	14.6	15.5	15.5	15.5	15.5	15.1
15.8	15.5	14.6	16.0	15.8 15.6	14.3	15.5	14.7
14.8	14.6	15.0	14.8	15.9	15.0	15.9	15.1
15.2	15.1	15.0	15.1	15.8 15.4	15.5	16.2	15.4
15.8	14.8	14.5	16.1	16.3 16.1	15.0	15.9	14.9
15.0	15.0	14.8	15.0	16.0 15.8	14.6	16.0	15.0
14.8	15.3	14.5	15.0	15.5 15.5	14.5	15.9	14.8
15.6	15.4	14.8	15.9	16.2 16.0	14.9	15.6	15.6

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A		2861	2722	999	5984	2536	2491	9.
Mr.				15.0				
5087	26335.447	16.4	15.6	14.9	15.7	15.8	15.7	1
				14.8				
5091	26341.332	[15.8	15.4	14.8	15.7	15.4	14.7	15
	<i>poor plate</i>			15.2				
15093	26344.335	—	14.8	15.1	—	14.9	—	
	<i>non plate</i>							
15233	26410.272	16.3	14.8	15.1	15.8	15.0	15.8	15
				15.1	15.9			
15250	26412.253	16.0	15.0	15.3	16.1	15.7	14.9	16
				15.1	15.7			
15254	26413.355	16.0	15.6	15.2	15.7	15.7	14.9	16
				14.6	15.5			
15256	26414.287	16.3	15.6	14.8	15.6	14.9	15.1	15
				15.1	15.7			
15264	26421.249	—	<i>difficult</i>	15.1	15.7	14.5	15.0	15
	<i>non plate</i>			14.6	15.4			
15266	26426.236	16.0	14.8	14.7	15.6	15.4	14.8	16
	<i>in gas telescope</i>			14.5	15.6			
15271	26427.255	15.9	15.0	14.7	15.7	14.6	15.0	15
				14.5	15.8			
15278	26441.229	[16.3	14.7	14.6	16.1	15.1	14.9	16
				14.8	15.6			
15287	26444.225	16.1	15.2	14.9	15.6	15.8	15.7	15
				14.4	15.8			
15293	26452.220	15.5	15.2	14.7	15.8	14.8	15.8	16
				14.5	15.7			
15298	26453.220	16.1	15.5	14.8	16.1	14.9	15.8	15
				14.8	15.8			
15303	26454.217	16.0	15.7	14.8	15.8	15.0	15.2	15
				14.9	15.9			
15308	26455.214	[16.3	15.7	15.2	15.8	15.1	14.8	15
				15.2	15.8			
15314	26456.214	[16.3	15.6	14.8	16.0	15.7	15.4	15
	<i>scored</i>			14.5	15.8			
15631	26565.613	15.8	15.6	14.8	16.1	15.3	15.3	15
	<i>non plate</i>			15.1	15.6			
15651	26567.629	16.3	15.6	15.0	15.7	14.6	16.0	15
				15.2	15.7			
15661	26568.622	16.4	15.3	15.3	15.7	14.8	15.3	15
				15.4	15.8			
15672	26570.631	15.6	14.6	15.1	16.1	15.7	15.3	15
				15.0	16.1			
15680	26571.611	15.9	15.1	14.8	16.1	15.9	15.4	14.5
				14.8	15.8			
15686	26572.627	16.2	15.0	14.7	16.0	15.4	15.8	15
				14.6	15.4			
15693	26573.635	16.5	15.6	14.6	15.8	14.5	15.8	15
	<i>in gas telescope</i>							

952	935	2432	927	2358	905	2337	971
15.8	14.7	14.5	15.9	16.3	15.2	15.9	15.1
15.0	15.4	14.8	16.0	15.9	15.5	15.8	15.2
—	15.0	15.0	—	—	14.6	—	15.0
15.2	15.7	14.8	15.8	15.5	15.4	15.9	14.7
15.8	15.0	14.5	15.0	15.5	14.7	16.0	14.7
16.0	14.8	14.4	14.7	15.6	14.2	15.8	14.7
15.8	15.0	14.4	15.0	15.9	14.9	15.5	14.9
15.9	14.8	14.9	14.7	15.9	15.5	15.0	14.7
15.0	15.2	14.4	16.1	15.3	14.6	15.9	15.1
15.0	14.7	14.5	15.4	15.8	14.7	15.5	15.5
16.0	14.8	15.0	15.9	16.1	15.0	15.5	14.8
15.3	15.4	14.7	15.7	15.4	15.6	15.7	15.5
16.0	15.7	14.9	15.0	15.7	14.7	15.9	15.1
15.7	15.7	14.8	15.4	15.8	14.9	16.0	15.5
15.0	15.4	14.8	15.8	15.8	15.4	15.9	15.6
15.0	14.8	14.6	15.9	16.1	15.3	14.8	15.5
15.0	14.9	14.3	16.1	15.8	15.6	15.4	15.1
15.9	15.4	14.4	15.2	15.9	14.7	15.4	15.6
15.9	15.1	14.5	16.0	16.3	14.3	15.7	15.7
15.2	14.7	14.4	16.0	16.2	14.3	15.9	14.8
15.0	15.4	14.8	15.4	15.8	15.5	16.0	14.8
14.8	15.6	14.9	15.0	15.6	15.5	15.5	15.0
15.0	15.4	14.9	15.3	16.1	15.6	15.4	15.4
15.8	15.7	15.0	15.6	16.1	15.9	15.5	15.5

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A		2861	2722	999	59 ⁵ 24	2536	2491	9
5703	26577.631	16.0	14.8	14.8	16.1	15.8	15.0	0
5739	2426593.615	16.3	14.9	15.2	15.7	14.9	15.3	10
15748	2426594.579	16.3	14.7	14.8	15.8-9	15.1	15.7	1
15772	2426605.624	15.5	15.4	14.7	15.6	14.5	14.9	1
15796	2426626.578	16.2	14.8	15.2	16.0	15.0	14.8	1
15806	2426635.562	16.0	15.0	14.9	15.8	16.0	15.4	1
15838	2426679.441	15.5	15.8	15.2	15.5	15.7	15.6	15
15847	2426684.383	15.5	14.7	15.0	15.7	15.3	14.9	15
15851	2426686.567	16.1	15.6	14.8	15.4	15.9	15.8	14
15857	2426689.391	15.5	15.2	14.6	15.8	14.8	15.9	16
15858	2426687.546	15.6	15.4	17.5	15.6	14.9	15.6	1
15872	26710.335	16.2	15.6	14.7	15.7	15.4	15.9	16
15878	26712.478 ⁵	16.0	15.3	14.5	16.1	15.1	15.4	12
16203	26946.626 ²	15.7	14.8	15.0	15.8	15.4	15.0	1
16221	26956.627 ¹⁷	16.1	14.7	14.5	16.1	14.9	15.1	12
16230	26960.606 ²	15.8	15.7	14.7	15.7	15.6	15.5	1
16254	26977.618 ⁵	16.4	15.7	15.1	15.6	15.7	15.0	16
16271	26988.566 ⁴	16.5	14.7	14.7	16.1	14.9	15.7	15
16279	26989.578 ⁶⁸	16.6	15.0	15.1	16.1	15.3	15.4	1
16310	2427059.356 ³	15.8	14.1	14.7	15.8	14.9	15.9	15
16311	242710.577	16.1	15.1	14.8	15.8	15.9	15.0	15
16607	2427410.266	16.1	15.1	15.1	16.1	15.8	15.0	15
16677	2427410.266	16.1	15.1	15.1	16.1	15.8	15.0	15
16678	2427410.300	16.1	15.1	15.1	16.1	15.8	15.0	15

952	935	2432	927	2358	905	2337	971
15.6	14.9	14.5	15.4	15.8	15.2	15.9	14.8
16.0	15.6	14.9	14.9	16.1	14.7	15.5	15.5
16.0	15.7	15.0	15.3	16.2?	15.3	16.1	15.6
16.2	15.0	15.1	16.1	15.5	14.8	15.9	14.7
14.9	14.9	14.7	15.5	15.8	14.6	15.2	14.9
15.2	15.6	14.6	15.9	16.4	15.8	15.6	15.0
15.9	15.8	14.5	15.5	16.1	15.7	16.0	14.9
15.0	15.4	14.6	14.9	15.7	15.5	15.8	15.1
14.9	15.9	14.5	15.2	15.5	14.0	16.0	15.4
16.0	14.9	14.7	16.4	16.1	15.5	15.5	14.6
15.8	14.8	14.6	16.1	16.4	15.1	15.5	14.6
15.8	14.9	14.5	15.8	16.0	14.5	15.5	15.0
15.1	defect —	14.6	15.4	15.9	14.7	16.1	15.2
15.9	15.4	14.8	15.8	16.0	14.9	16.0	15.5
15.8	14.8	14.9	15.6	15.4	15.5	15.0	15.2
15.8	15.5	14.6	16.1	16.0	14.7	16.1	15.0
16.2	14.9	14.9	15.0	15.8	15.9	15.4	14.8
15.9	15.4	15.1	16.0	15.8	15.5	16.3	14.7
15.8	15.5	14.7	16.2	16.0	15.9	16.0	14.8
15.0	15.6	14.8	16.0	15.8	15.9	15.2	16.2
15.4	14.7	14.5	15.1	16.0	15.6	15.9	15.6

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A

no.

		2861	2722	999	5924 ⁵	2536	2491	
16679	2427413.340	16.5	14.7	15.0	15.9	15.7	15.3	1
16680	2427413.374	16.6	14.7	15.1	15.9	15.6	15.0	15
16681	2427421.312	16.3	14.7	15.3	15.7	14.6	15.7	1
	<i>poor plate</i>							
16682	2427421.344	16.1	14.6	15.3	15.6	14.8	15.7	1
16684	2427422.272	16.5	15.1	15.1	16.0	15.0	15.7	1
16687	2427426.264							
	<i>not poor plate omitted</i>							
16688	2427426.296	16.2	16.0	14.8	15.6	15.3	14.9	1
16689	2427426.329	16.3	15.7	15.0	15.7	15.4	14.8	1
16690	2427426.363	16.0	16.0	15.0	15.9	15.8	15.0	16
	<i>slightly trailed</i>							
16691	2427426.396	16.2	15.7	14.9	15.5	15.5	14.9	1
16692	2427426.448	16.1	16.0	14.7	15.4	15.4	15.3	1
	<i>impaled images</i>							
16693	2427426.555	16.4	15.6	14.8	15.6	15.2	15.0	15
16701	2427449.273	16.4	15.6	14.5	16.0	15.4	15.3	15
	<i>poor plate</i>							
16702	2427449.307	16.4	15.5	14.8	16.1	15.7	15.4	15
16703	2427449.339	16.1	15.6	15.1	16.1	15.6	15.4	1
16704	2427449.381	16.0	15.6	14.9	16.1	15.4	15.3	1
	<i>trail</i>							
16705	2427449.434	16.1	15.7	14.7	16.2	15.4	15.4	1
16706	2427449.462	16.3	15.6	14.8	16.0	15.2	15.5	15
	<i>30 m. app. poor plate</i>							
16707	2427454.363	16.2	15.1	15.0	15.8	15.0	15.0	1
16712	2427456.276	16.2	15.5	15.3	16.1	15.4	15.0	1
16713	2427456.309	16.1	15.5	15.3	15.9	15.8	15.4	1
16714	2427456.354	16.3	15.5	15.3	15.8	15.5	15.3	1
16715	2427456.387	16.3	15.6	15.3	15.8	15.7	15.0	16
	<i>poor plate</i>							
16716	2427456.533	16.3	15.2	15.2	15.8	15.9	15.6	1

952	925	2432	927	2358	905	2337	113 971
15.0	15.8	14.8	15.4	15.6	15.0	16.0	15.5
15.0	15.7	14.9	15.9	15.6	15.0	16.0	15.5
14.8	15.9	14.5	15.1	15.8	14.3	16.0	15.7
14.9	15.9	14.5	15.3	15.8	14.3	15.9	16.0
15.3	15.9	14.5	14.5	16.0	14.3	15.8	15.3
15.9	15.3	14.7	15.7	15.6	15.4	15.9	14.8
15.7	15.0	14.9	16.1	15.6	15.5	15.9	14.9
15.7	15.1	14.9	16.1	15.5	15.1	16.0	15.0
15.9	15.0	14.8	16.0	15.6	15.9	15.9	14.9
15.8	15.4	15.0	16.0	15.6	15.0	15.9	14.8
15.9	14.9	14.8	16.0	15.8	15.4	15.9	14.8
15.3	15.8	14.5	16.0	16.0	15.5	16.0	15.6
15.3	15.8	14.5	15.7	15.9	14.9	16.0	15.7
15.4	15.9	14.6	15.8	16.0	14.9	15.9	16.0
15.3	15.6	14.4	16.1	16.0	15.2	15.8	15.7
15.4	15.8	14.5	15.9	15.9	15.1	16.0	15.5
15.1	15.8	14.4	15.8	15.9	15.3	15.9	15.7
15.8	15.5	14.5	15.0	15.5	15.0	16.1	14.9
15.9	15.8	14.8	16.0	16.1	14.7	16.0	15.4
15.8	15.7	15.0	16.0	16.0	14.9	15.8	15.1
15.9	15.7	15.0	15.8	16.0	14.9	15.8	15.2
15.9	15.9	14.8	15.5	16.0	14.6	15.9	15.2
16.0	16.0	14.6	15.9	15.9	14.3	15.4	15.1

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	2861	2722	999	⁵ 594	2536	2491
hr. 2427457.277 6717 double in ago traced from plate	16.2	15.4	14.9	15.8	15.7	15.8
6718 2427457.311	16.6	15.7	15.1	15.1	16.0	15.5
16719 2427457.349	16.5	15.6	15.2	15.5	15.8	15.9
16720 2427457.382 in ago slightly enlarged	16.4	15.5	15.0	15.7	15.9	15.8
16721 2427457.436	16.4	15.6	15.0	15.6	15.9	16.0
16722 2427457.469	16.1	15.6	15.0	15.5	15.7	15.6
16723 2427457.502 double in ago with all faint stars	16.3	16.0	15.3	15.7	15.9	15.6
16724 2427457.535 slight by 1.5 sec	16.5	15.6	15.3	15.7	15.8	15.9
17225 2427746.482	15.6	15.6	14.8	15.7	14.8	14.8
17228 2427747.424	16.3	15.9	15.1	15.8	14.9	15.0
17232 2427749.409	16.7	15.0	15.1	16.1	15.5	15.7
17234 2427749.489	16.5	14.6	15.3	16.1	15.8	15.4
17239 2427750.440	16.2	14.8	15.1	16.0	15.6	15.8
17247 2427755.362 traced	16.4	15.8	14.7	16.1	15.1	15.0
17249 2427755.452	16.0	15.7	14.8	16.0	15.4	15.3
17268 2427786.315	16.0	15.7	14.7	15.8	14.9	15.3
17280 2427799.286	16.8	15.0	15.0	16.1	15.4	15.5
17281 2427799.331	16.4	14.7	14.8	16.0	15.4	15.6
17282 2427799.378	16.4	15.1	14.4	16.1	15.3	15.5
17283 2427799.446 near	16.5	15.0	14.7	15.9	15.5	15.6
17284 2427799.482	16.4	15.1	14.7	15.9	15.0	15.8
17285 2427799.532	16.5	15.0	14.6	16.1	14.7	15.8
17287 2427800.283	16.0	14.9	14.8	15.3	15.8	15.9
17288 2427800.320	15.6	15.2	14.7	15.6	15.6	15.8

95-2	935	2432	927	2358	905	2337	971
16.0	15.9	14.9	16.3	16.0	14.4	15.5	15.2
15.9	15.9	14.9	⁵ 14.9	15.9	14.5	15.2	15.4
16.2	15.9	14.9	15.9	15.9	14.1	15.1	15.6
15.9	15.8	14.9	15.9	16.2	14.0	15.5	15.2
16.0	15.7	15.0	15.9	16.0	14.0	15.0	15.3
15.9	15.5	14.9	16.3	16.0	14.3	15.0	15.3
15.9	15.4	15.0	16.1	15.9	14.0	15.0	15.7
15.9	15.4	14.9	15.9	16.0	14.3	15.1	15.5
15.2	15.7	14.5	15.3	15.5	15.5	15.5	15.8
15.0	15.6	14.3	15.7	15.6	15.6	15.6	15.7
14.9	14.8	14.6	15.8	15.9	15.6	16.0	14.6
15.0	14.8	14.6	16.0	16.0	15.5	16.1	14.7
15.3	15.0	14.6	16.2	16.0	15.2	16.0	14.8
15.3	14.5	14.6	15.4	15.9	14.7	15.8	15.6
15.3	14.8	14.7	15.5	15.9	14.6	15.9	15.6
15.0	15.3	14.8	16.0	15.5	15.6	15.4	14.7
15.5	14.8	14.6	15.4	15.1	15.2	15.9	14.8
15.7	14.9	14.4	15.0	15.2	14.7	16.0	14.8
15.4	14.9	14.4	15.0	15.0	14.7	15.9	14.7
15.8	14.9	14.5	15.0	15.1	14.7	15.9	15.0
15.9	14.9	14.5	15.3	15.0	14.7	15.9	14.9
15.8	14.8	14.4	15.1	15.5	14.7	15.9	14.8
16.0	15.0	14.5	15.3	15.8	14.6	15.0	15.1
15.6	15.1	14.4	15.0	15.6	14.3	15.0	15.4

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A		2861	2722	999	59 ^h 24	2536	2491
hr.							
17289	2427800.377	15.9	15.2	14.6	15.7	15.6	15.8
17290	2427800.414	15.7	15.0	14.7	15.5	15.6	15.9
17291	2427800.472	15.6	15.2	14.7	15.8	15.7	15.8
17292	2427800.507	15.4	15.1	14.6	15.6	15.5	15.8
	<i>slightly elongated image</i>						
17293	2427800.555	15.9	15.1	14.3	15.5	15.7	15.9
	<i>slightly elongated image 2 images</i>						
17294	2427801.283	16.1	15.1	14.8	15.7	15.7	15.8
17295	2427801.321	16.0	15.4	15.0	15.7	15.8	15.9
17296	2427801.370						
	<i>very poor plate</i>						
17297	2427801.408						
	<i>omitted</i>						
17298	2427802.499	16.4	15.6	14.8	16.0	15.8	15.3
	<i>omitted</i>						
17299	2427802.552	16.4	15.6	14.8	15.8	15.0	15.3
	<i>omitted</i>						
17300	2427807.283	16.4	14.8	15.0	15.2	15.7	15.8
	<i>cut out</i>						
17301	2427807.317	16.1	14.8	15.0	15.7	15.6	15.7
	<i>slightly elongated image</i>						
17302	2427807.365	16.4	15.0	14.6	15.2	15.8	15.9
17303	2427807.399	16.4	14.8	15.1	15.6	15.7	15.8
17304	2427807.443	16.3	15.1	14.8	15.6	15.9	16.0
	<i>poor plate</i>						
17305	2427807.476	16.3	15.1	14.9	15.6	15.7	16.7
	<i>omitted poor plate</i>						
17306	2427807.516	15.8	15.1	14.7	15.6	15.9	15.9
17307	2427807.549	16.2	15.1	14.8	15.5	15.8	16.0
17308	2427808.282	16.4	15.0	14.9	15.7	15.6	15.7
17309	2427808.317	16.4	15.2	14.9	15.8	15.4	15.9
17310	2427808.368	16.4	14.9	14.7	15.8	15.7	15.8
17311	2427808.402	16.5	15.2	14.7	15.7	15.7	16.0
17315	2427811.274	16.2	15.9	14.3	16.1	15.0	15.1
18016	2428078.413	16.1	14.8	14.6	15.8	15.0	15.8

95.2	93.5	243.2	92.7	235.8	90.5	233.7	117 97.1
16.0	15.1	14.4	15.3	15.5	14.7	14.7	15.1
15.9	15.0	14.4	15.3	15.5	14.2	15.1	15.2
15.8	15.3	14.4	15.0	15.7	14.3	15.1	15.2
15.6	15.0	14.4	15.0	15.5	14.6	15.4	15.2
15.9	15.0	14.5	15.1	15.5	14.6	15.1	15.0
16.3	15.1	14.6	15.4	15.8	14.2	15.5	15.1
16.0	15.4	14.4	15.7	15.6	14.2	15.5	15.2
15.7	15.6	14.3	16.2	15.9	14.4	15.6	15.9
15.7	15.8	14.3	15.7	16.0	14.7	15.8	15.6
15.3	15.0	15.0	15.4	15.5	15.5	14.9	15.0
15.3	15.2	15.0	15.0	15.5	15.6	14.9	14.7
15.4	15.2	15.1	15.8	15.6	15.6	14.7	14.8
15.3	15.0	14.9	15.4	15.7	15.6	14.6	15.0
15.3	15.1	14.9	15.0	15.6	15.2	14.8	15.0
15.2	15.3	15.0	14.9	15.8	15.4	15.0	14.8
15.0	15.4	15.0	14.9	15.6	15.5	15.2	15.0
15.0	15.1	14.9	15.0	15.6	15.5	14.9	15.0
15.4	15.5	14.9	15.0	15.9	15.6	15.1	15.1
15.4	15.3	14.9	15.5	15.6	15.5	15.4	15.1
15.8	15.0	15.1	15.9	15.6	15.6	15.5	14.9
15.3	15.7	15.1	15.4	15.6	15.6	15.5	15.0
15.9	15.4	14.5	16.0	16.0	14.7	15.9	15.4
16.0	15.9	15.0	15.3	16.0	15.5	15.9	15.0

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hr

		MILAM (I)	D.H.	D.H.	D.H.	D.H.	D.H.
2130	13847.841	2752	2727	2619	2790	2773	2685
2157	13875.808	15.8 15.8 16.0 16.2	15.9	15.1	—	—	15.5
2188	13894.750	16.2	15.1	15.1	16.6	15.4	15.8
2198	13946.555	17.1 —	15.5	15.1	16.2	15.7	15.6
2202	13948.574	16.3 15.9 15.7	15.0	15.9	16.1	15.1	15.2
2203	13951.594	16.5 16.9 16.2	15.8	15.2	16.0	15.5	16.0
2207	13954.583	16.2 16.2 16.2	15.6	16.1	15.9	16.0	15.1
2209	13956-7	16.2 16.5 16.7	15.7	15.0	16.4	15.4	15.5
2960	14391.541	16.2 16.4 16.6	16.0	15.6	15.9	16.1	15.1
7096	16814.656	16.1 16.1 16.1	16.1	15.1	16.2	15.4	15.7
7098	16816.644	16.4 16.6 16.6	15.1	16.3	16.5	16.2	15.7
7099	16816.768	15.0 17.0 16.1	16.1	15.7	15.5	15.5	15.4
7101	16820.567	16.1 16.2 16.1	16.0	15.2	15.7	15.3	15.2
7102	16820.651	16.2 16.1 16.1	15.2	16.0	16.2	16.2	15.7
7103	16820.747	16.2 16.2 16.2	15.5	16.1	16.3	15.1	16.0
7104	16820.838	16.2 16.2 16.2	15.1	16.1	16.2	16.0	16.1
7114	16823.638	16.2 16.2 16.2	15.4	16.2	16.7	16.2	16.1
7123	16855.573	16.8 17.1 15.8	16.1	15.0	15.5	15.4	15.3
7125	16856.557	15.8 15.8 16.1	15.4	15.7	16.3	15.5	15.1
8211	17590.584	16.1 16.2 16.1	15.1	16.3	15.5	15.6	15.4
8561	17933.607	16.2 16.2 16.2	15.6	16.0	15.7	15.1	15.5
10586	21154.744	16.1 16.2 16.1	15.6	16.0	16.0	15.3	16.0
11903	23024.729	16.1 16.2 16.1	15.6	16.0	16.0	15.6	15.5
12286	23465.600	16.1 16.1 16.1	15.8	15.2	16.2	15.5	15.6
12288	23486.545	16.6 16.8 16.8	16.0	16.0	16.5	15.6	15.7

Sund		measures											
2752 ✓	2727 ✓	2619 ✓	933 ✓	2463 ✓	934 ✓	1006 ✓							
p=7.19	p=5.9506	p=5.9776	15.545	13.95	28.18	14.212							
15.8 15.8	15.9 16.0	15.1 15.2 15.3	15.0 14.9	15.3 15.3	14.2 14.1	15.5 15.4							
15.8	16.0	15.6	14.9	15.4	14.0	15.3							
16.2 16.2	15.1 15.1	15.1 15.1	15.4 15.4	15.3 15.4	13.4 13.9	15.5 15.5							
16.1	15.2	15.1	15.4	15.4	13.8	15.5							
17.1 17.1	15.5 15.6	15.1 15.2	15.0 15.0	14.6 14.7	15.2 15.2	15.4 15.5							
17.2	15.8	15.2	15.1	14.8	15.2	15.5							
16.3 [16.3	15.0 15.0	15.9 16.1	16.0 15.9	15.6 15.5	15.1 15.2	15.5 15.5							
[16.3	15.0	16.2	15.9	15.3	15.3	15.5							
15.7 15.8	15.8 15.9	15.2 15.2	16.2 16.1	15.4 15.4	15.3 15.2	15.8 16.0							
15.9	16.0	15.1	16.0	15.3	15.1	16.1							
16.9 16.8	15.6 15.7	16.1 16.1	16.1 16.0	14.2 14.3	15.7 15.5	15.2 15.3							
16.7	15.8	16.2	16.0	14.4	15.3	15.4							
16.2 16.2	15.7 15.8	15.0 15.0	14.5 14.5	14.5 14.5	14.9 15.0	14.4 14.3							
16.1	15.8	15.0	14.6	14.5	15.1	14.2							
16.2 16.2	16.0 16.1	15.6 16.2 16.0	15.1 15.3	14.8 14.9	15.0 14.9	14.3 14.5							
16.2	16.1	16.1	15.3	15.0	14.8	14.6							
16.7 16.8	16.1 16.2	15.1 15.3	15.1 15.0	15.0 14.9	15.0 14.9	15.1 15.1							
17.0	16.2	15.5	14.9	14.9	14.8	15.1							
16.6 16.5	15.1 15.1	16.3 16.2	14.9 14.7 14.8	14.5 14.4	14.6 14.6	15.0 15.0							
16.5	15.0	16.2	14.8	14.3	14.5	14.9							
15.0 16.9 16.9	16.1 16.1	15.7 15.5	15.0 15.0	15.1 15.0	15.0 15.0	15.7 15.5							
[14.9	16.1	15.4	14.9	14.9	15.0	15.4							
17.0 17.0	16.0 16.0	15.2 15.3	15.2 15.3	15.1 15.0	15.0 15.0	15.5 15.3							
17.0	16.1	15.4	15.4	14.9	15.0	15.2							
16.2 16.2	15.2 15.1	16.0 16.0	15.8 15.7	15.4 15.2	15.0 15.1	15.7 15.7							
16.2	15.1	16.1	15.5	15.0	15.1	15.7							
16.2 16.2	15.5 15.3	16.1 16.1	15.7 15.8	15.6 15.6	15.3 15.2	15.6 15.6							
16.3	15.1	16.2	15.8	15.7	15.1	15.7							
16.2 16.2	15.1 15.1	16.1 16.2	15.8 15.8	15.7 15.5	15.4 15.4	15.7 15.5							
16.2	15.1	16.2	15.8	15.3	15.4	16.2							
16.2 16.2	15.4 15.2	16.2 16.2	15.8 15.8	15.6 15.5	15.3 15.2	15.6 15.7							
16.2	15.1	16.2	15.8	15.3	15.0	15.7							
17.1 17.1	16.1 16.1	15.0 15.0	16.0 16.0	14.8 14.8	15.3 15.1	15.1 15.2							
17.2	16.1	15.0	16.0	14.8	15.0	15.2							
15.8 15.9	15.4 15.4	15.7 15.7	16.2 16.2	14.5 14.4	15.3 15.3	14.5 14.4							
16.0	15.4	15.7	16.2	14.3	15.3	14.3							
16.2 16.2	15.1 15.3	16.3 16.3	16.4 16.5	14.6 14.6	15.4 15.3	14.8 14.7							
16.2	15.4	16.2	16.5	14.6	15.2	14.7							
16.2 16.2	16.1 16.1	15.6 15.6	15.4 15.4	14.6 14.8	15.4 15.4	15.1 15.2							
16.1	16.1	15.7	15.3	15.0	15.4	15.2							
16.1 16.0	15.4 16.0	16.0 16.0	14.5 14.5	15.0 15.0	14.3 14.1	14.2 14.3							
16.0	15.2	16.0	14.5	15.0	14.3	14.2							
15.3	15.3	15.3	15.4	14.6	14.9	14.8							
[15.3	15.3	15.3	14.6	14.6	14.5	14.8							
16.1 16.1	15.8 16.0	15.2 15.2	15.5 15.9	14.7 14.6	14.8 14.7	14.6 14.4							
16.6	16.1	15.2	15.9	14.6	14.6	14.3							
16.8 16.7	16.0 15.9	16.0 16.1	15.4 15.3	15.3 15.3	13.9 13.8	15.4 15.4							
16.7	15.7	16.2	15.2	15.3	13.8	15.4							

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hr

		2752	2727	2619	2790	2773	2685	
		15.6						
12290	23487.568	15.7	- blue -	15.0	[15.8	defect	16.0	
		16.1						
12292	23489.538	16.3	15.7	15.1	15.7	15.4	15.2	
		16.5						
12294	23490.573							
12883								
12295	wrong position							
		16.8						
12320	23527.509	17.0	15.6	16.0	16.3	15.0	15.1	
		16.4						
12326	23529.536	16.6	15.9	15.0	15.5	15.5	15.4	
		15.7						
12648	2423667.867	15.7	15.9	15.0	15.7	15.4	15.5	
		15.8						
12697	2423681.879	16.0	15.7	15.8	15.7	15.6	16.0	
		15.8						
12699	2423682.875	16.1	15.7	15.9	16.1	16.2	16.0	
12782	2423705.767	16.5	15.5	- blue -	16.0	blue	15.1	
12700	2423683.871	16.3	15.8	15.9	16.0	16.1	15.5	
		16.6						
12788	2423706.770	17.0	16.1	16.1	16.0	15.4	15.2	
		15.6						
12830	2423732.678	15.6	16.1	15.1	16.1	15.7	15.5	
		16.1						
12834	2423734.801	16.3	15.1	15.1	16.0	16.3	16.0	
12848	2423737.847	[16.3	16.1	16.1	16.5	15.5	15.2	
12851	2423738.787	16.6	16.1	15.1	16.5	15.5	15.4	
		16.1						
12855	2423740.790	16.2	15.5	15.1	16.0	16.1	15.6	
		16.2						
12859	2423741.834	16.2	15.5	15.8	16.1	16.0	16.1	
12862	23742.852							
12865	23752.638	17.1	15.0	15.6	16.3	15.7	15.5	
12880	23875.527			15.8		15.8	15.3	
		16.2						
12901	23900.501	16.2	15.1	14.6	15.7	16.2	15.1	
12919	23907.499	16.0	15.1	15.1		15.5	14.9	
		16.5						
13095	241051.819	16.0	15.7	15.3	15.5	15.8	15.1	
13100	24053.787							

Second measures.

• 2752	• 2727	• 2619	• 433	• 2463	• 934	• 1006
15.7 15.6	— 15.9	15.0 15.0	15.7 15.8	15.7 ⁴ 15.4	13.9 13.9	15.4 15.1
15.6	15.9	15.1	15.8	15.4	13.9	15.0
16.3 16.3	15.7 15.7	15.1 15.2 15.3	15.7 15.9	15.4 15.5	14.6 14.5	14.2 14.2
16.2	15.7	15.6	15.8	15.3	14.3	14.3
			Σ15.3 Σ14.8	14.8 14.8	15.3 Σ14.8	14.3 14.3
			Σ14.8	14.8	Σ14.8	14.2
17.0 16.9	15.6 15.6	16.0 16.1	16.0 16.0	14.6 14.8	14.6 14.6 14.8	15.8 15.8
15.8	15.7	16.2	15.9	15.0	15.1	15.7
16.6 16.6	15.9 15.1	15.0 15.1	14.6 14.5	15.1 15.2	15.2 15.1	15.4 15.5
16.6	16.2	15.2	14.5	15.2	15.0	15.5
15.7 15.8	15.9 16.0	15.0 15.0	15.6 15.7	14.9 14.9	14.8 14.8	15.7 15.6
15.9	16.1	15.0	15.6	14.9	14.8	15.5
15.7 15.9	15.9 15.8	15.0 15.7	15.8 15.8	14.8 14.9	15.0 15.0	15.6 15.4
16.1	15.7	15.7	15.9	14.9	15.0	15.3
16.1 16.1	15.7 15.8	15.8 15.9	15.8 15.8	15.1 15.0	14.6 14.5	15.6 15.7
16.1	15.9	16.1	15.8	15.0	14.4	15.7 14.4
16.5 16.5	15.6 15.6	15.7 15.7	15.6 15.7	14.0 14.2	13.6 15.6	14.4 14.4
16.2 16.2	15.8 15.9	15.9 16.0	15.1 15.2	15.4 15.3	14.2 14.3	15.8 15.8
16.2	16.1	16.2	15.3	15.1	14.4	15.7
17.0 17.1	16.1 16.1	16.1 16.2	15.9 15.9	14.5 14.7	15.4 15.5	14.3 14.4
17.2	16.1	16.2	16.0	14.9	15.6	14.5
15.6 16.1 15.9	16.1 16.2	15.1 15.2	15.0 15.0	13.9 13.9	15.6 15.6	14.4 14.3
16.1	16.2	15.3	15.1	13.9	15.8	14.8
16.3 14.3	15.1 15.1	15.1 15.5 15.4	15.2 15.3	14.4 14.4	15.3 15.3	14.4 14.4
16.2	15.1	15.6	15.4	14.5	15.3	14.3
Σ16.3 Σ14.3	16.1 16.1	16.1 16.1	15.6 15.5	14.4 15.3 15.1	15.3 15.3	14.4 15.1 14.8
Σ16.3	16.1	16.2	15.4	14.9	15.3	15.1
16.6 16.6	16.1 16.1	15.1 15.2	15.8 15.9	15.0 15.1	15.0 14.9	15.1 15.3
16.7	16.2	15.2	15.9	15.1	14.9	15.4
16.2 16.2	15.5 15.3	15.1 15.3	16.2 16.2	15.3 15.3	14.8 14.8	15.4 15.8
16.2	15.1	15.3	16.1	15.3	14.1	15.7
16.2 16.3	15.5 15.6	15.8 15.8	16.1 16.1	15.4 15.5	14.0 14.1	15.5 15.5
16.3	15.8	15.8	16.1	15.6	14.1	15.5
17.1 17.2	15.0 15.1	15.6 15.5	15.7 15.7	15.1 15.2	15.2 15.0	15.8 15.8
17.2	15.1	15.4	15.6	15.3	14.9	15.7
— Σ14.0	— Σ16.0	15.8 15.8	15.3 15.2	14.5 14.5	15.6 15.6	14.3 14.3
Σ16.0	Σ16.0	15.8	15.2	14.5	15.6	14.3
16.2 16.2	15.1 15.2	14.6 14.6	15.8 15.8	13.9 13.8	15.6 15.6	15.1 15.1
16.2	15.2	14.6	15.8	13.8	15.6	15.0
16.0 16.0	15.1 15.1	15.1 15.1	15.3 15.3	15.0 15.1	14.9 14.9	15.2 15.1
Σ16.0	15.1	15.0	15.4	15.2	15.0	15.0
16.0 16.1	15.7 15.7	15.3 15.5	16.0 16.0	14.6 14.7	14.1 14.2	15.5 15.6
16.2	15.4	15.7	16.1	14.7	14.3	15.6

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		2752	2727	2619	2790	2773	2685
no		15.8					
3108	24056.833	15.8	15.7	15.0	16.2	15.5	15.3
		16.3					
3111	24065.804	16.9	16.2	16.1	16.2	16.2	15.2
		16.5					
13129	24081.749	[16.3	15.8	15.2	[16.6	15.5	16.2
		15.6					
13140	24084.690	15.7	15.8	15.9	16.0	16.5	15.1
		16.4	15.4				
13414	24353.890	16.3	15.7	16.1	16.2	15.4	15.4
		16.4	15.5				
13444	24360.895	16.2	15.5	15.0	15.7	15.6	15.5
		15.8	12.0				
13480	24380.812	16.1	16.1	15.6	15.6	15.7	15.5
		15.7	15.8				
13531	24408.850	16.1	15.7	14.7	16.1	15.8	16.2
		16.3	15.2				
13558	24418.800	17.0	15.1	15.9	16.5	15.6	15.2
		15.8					
13585	24439.798		[15.3	15.1		15.6	15.4
		16.8	15.8				
13607	24462.726	[16.3	15.8	15.0	16.5	15.4	15.2
		16.0	15.1				
13623	24501.614	16.2	15.5	15.9	16.1	15.7	15.7
		16.7	15.9				
13644	24637.498	[16.3	16.2	15.8	16.5	15.7	15.9
		16.8	16.4				
14093	24802.831	17.3	16.1	15.1	16.3	15.4	15.2
		16.4	16.3				
14106	24821.605	16.6	16.2	15.1	16.6	16.0	16.1
		16.4	15.6				
14108	24824.683	17.0	15.8	16.0	16.1	15.9	15.1
			16.5				
14201	25850.638	16.5	16.1	15.0	[16.6	15.9	15.0
14252	25886.539	17.2	16.1	15.5	16.2	16.0	15.9
14315	25915.512	16.6	16.1	15.7	16.0	15.0	15.0
14397	25952.512	17.1	16.0	15.7	16.5	14.8	16.0
			15.7				
14485	25997.359	16.6	15.7	15.9	[16.6	15.4	15.7
			16.3				
14531	26011.336	16.7	16.1	15.1	16.9	15.5	16.0
			15.1				
14611	26055.296	16.2	15.1	15.6	16.1	15.3	15.4
14625	26060.243	in column	in column	in column	in column	15.5	15.1

• 2752

Sunt means

• 2727

• 2619

5.8

~~15.9~~ 15.9 15.7 15.7 15.0 15.0
 15.9 15.7 15.1
 16.9 16.6 16.6 16.2 16.2 16.1 16.1
 16.3 16.2 16.2
 16.3 16.3 15.8 15.8 15.2 15.3
 16.9 15.8 15.4
 15.7 15.8 15.8 15.8 15.9 16.0
 15.8 15.8 16.1
 16.3 16.4 15.7 15.6 16.1 16.1
 16.5 15.5 16.1
 16.2 16.4 15.5 15.6 15.0 15.0
 16.6 15.8 15.0
 16.1 16.1 16.1 16.1 15.6 15.6
 16.1 16.2 15.6
 16.1 15.9 15.7 15.8 14.7 14.6
 15.7 15.8 14.6
 17.0 16.8 15.1 15.1 15.9 16.1
 16.7 15.1 16.2
 — 15.3 15.3 15.3 15.1 15.1
 15.3 15.3 15.1
 16.5 17.0 17.1 15.8 15.9 15.0 15.0
 17.2 16.1 15.0
 16.2 16.1 15.5 15.1 15.9 16.0
 16.1 15.0 16.1
 16.3 16.3 16.2 16.2 15.8 15.8
 16.6 16.1 15.7
 17.3 17.2 16.1 16.1 15.1 15.1
 17.0 16.1 15.1
 16.6 16.7 16.2 16.3 15.1 15.0 15.0
 16.7 16.3 16.1
 17.0 17.0 15.8 15.6 16.0 16.1
 17.0 15.5 16.1
 16.5 16.6 16.1 16.2 15.0 15.2
 16.6 16.3 15.3
 17.2 16.7 16.8 16.1 16.1 15.5 15.5
 16.6 16.2 15.4
 16.6 16.7 16.1 16.2 15.7 15.6
 16.7 16.2 15.4
 17.1 17.1 16.0 16.1 15.7 15.7
 17.1 16.1 15.7
 16.6 16.6 15.7 15.8 15.9 15.9
 16.9 15.8 15.9
 16.7 16.8 16.1 16.1 15.1 15.3
 17.0 16.2 15.4
 16.2 16.3 15.1 15.0 15.6 15.6
 16.5 15.0 15.7
 — — — — —

• 933

• 2463

• 934

• 10023

15.6 15.5 14.5 14.5 14.5 14.6 15.1 15.2
 15.3 14.5 14.6 15.1 15.2
 15.9 15.9 14.5 14.5 15.6 15.4 15.8 15.8
 15.9 14.6 15.1 15.4 15.8
 16.0 16.0 13.8 14.0 14.4 14.5 15.9 15.9
 16.0 14.1 14.5 15.8
 16.2 16.1 14.7 14.6 14.5 14.4 15.4 15.3
 16.0 14.5 14.4 15.2
 15.0 15.0 15.4 15.3 15.3 15.3 15.4 15.4
 15.0 15.3 15.3 15.4
 15.7 15.8 13.8 13.8 13.9 13.9 15.0 15.0
 15.8 13.8 14.0 15.0
 16.0 15.9 15.3 15.1 15.1 15.6 15.8 15.7
 15.9 14.9 15.7 15.7
 16.1 16.2 15.4 15.4 15.7 15.6 15.8 15.7
 16.3 15.4 15.6 15.6
 15.4 15.4 14.4 14.4 14.0 13.9 15.1 15.1
 15.3 14.3 13.9 15.1
 15.5 15.5 15.0 15.0 15.4 15.6 15.0 15.0
 16.0 15.0 15.8 15.0
 15.0 14.9 15.0 15.0 15.2 15.2 15.1 15.1
 14.9 15.0 15.2 15.0
 16.0 16.0 14.3 14.4 13.9 14.0 14.6 14.6
 16.0 14.5 14.0 14.6
 15.5 15.5 15.1 15.0 15.3 15.3 15.8 15.6
 15.5 14.9 15.4 15.5
 15.9 15.8 15.1 15.1 15.9 15.6 15.0 15.0
 16.8 15.1 16.4 16.0
 15.1 15.0 13.9 14.0 15.1 15.2 15.8 15.9
 14.9 14.1 16.4 15.9
 16.2 16.1 15.0 14.9 15.1 15.1 14.9 14.9
 16.0 14.8 15.1 14.9
 15.7 15.7 14.6 14.6 15.3 15.3 14.5 14.6
 15.7 14.6 15.3 14.6
 16.2 16.3 15.4 15.2 14.5 14.5 15.8 15.7
 16.5 15.0 14.4 15.7
 16.2 16.2 15.4 15.4 14.8 14.7 15.9 15.8
 16.2 15.4 14.6 15.8
 16.2 16.4 14.9 14.9 15.1 15.1
 16.2 16.3 14.9 15.0
 16.2 16.2 15.1 15.0 13.9 14.1 15.1 15.1
 16.1 14.9 14.2 15.1
 15.9 16.4 15.3 15.1 15.4 15.2 15.5 15.5
 16.2 14.9 15.0 15.5
 15.8 15.8 15.1 15.1 14.2 14.4 15.4 15.5
 15.8 15.1 14.5 15.6
 15.8 15.8 15.1 15.1 14.4 14.5 — —

15.7
miss subtract from15.0 v. mck
14.9 H2515.0 J N
14.5 v. mck
14.5 J N

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A

2752

2727

2619

2790

2773

2685

4968	26245.582	16.2	15.1	15.6	16.0	15.2	15.7	16.2
4985	26264.557	15.8	15.3	15.7	15.6	15.6	15.6	15.8
15009	26274.482	16.1	15.3	16.1	15.5	15.4	15.7	16.1
15022	26294.367 ⁵⁸		15.5	15.1	16.2	15.9	15.6	16.1
15023	26298.496							
15024	26299.440							
15030	26302.421							
15031	26302.489							
15032	26302.530							
15036	26303.577	15.9	15.7	14.6	15.7	15.7	15.5	15.9
15039	26304.355	16.2	15.8	15.0	15.7	15.6	15.4	16.2
15041	26308.518	15.7	15.1	14.9	15.6	15.6	15.5	16.2
15049	26309.501	16.2	15.3	15.1	15.7	15.5	15.5	16.2
15055	26312.385	16.0	16.0	15.8	16.3	15.3	14.9	15.7
15060	26313.312	15.7	16.1	15.8	16.5	15.3	15.2	15.5
15062	26319.329	16.6	16.1	14.8	16.1	15.6	15.2	16.2
15064	26322.343	15.6	16.1	14.6	16.1	15.4	15.3	16.2
15070	26323.337	16.1	15.5	15.6	15.7	15.7	15.7	16.0
15075	26328.446	16.6	15.7	15.9	15.7	15.7	15.8	16.0
15080	26329.398	15.5	15.7	16.0	16.2	16.1	16.1	16.6
15083	26330.340	16.1	15.9	16.3	16.2	16.1	16.2	16.6
15086	26334.368	16.6	15.1	15.2	16.2	15.4	15.3	16.1
15087	26335.447	15.6	15.3	15.7	15.4	15.7	15.5	16.1
15091	26341.332	16.1	15.4	15.3	16.4	15.6	14.9	16.6
15093	26344.335	16.1	15.1	15.2	16.5	15.4	15.2	16.6
		16.6	15.3	15.5	16.1	15.7	15.2	15.5
		16.1	15.7	15.8	16.1	15.5	15.4	15.5
		16.1	15.9	15.9	16.1	15.7	15.7	16.1
		16.1	15.5	15.5	16.1	15.7	15.4	16.1
		16.1	15.2	15.1	16.4	15.4	14.8	16.9
		16.1	15.0	15.1	16.4	15.4	14.8	17
		16.1	15.2	15.6	16.2	15.6	15.1	15.6
		16.1	15.4	15.5	16.0	15.5	15.4	16.1
		16.1	15.3	15.5	16.0	15.6	14.7	16.1
		16.1	15.5	15.5	16.0	15.6	15.1	16.1

1934phae.proj.2418M

second measures

2752	2727	2619	933	2463	934	1006
16.2 16.2	15.1 15.1	15.6 15.6	16.2 16.2	14.3 14.4 14.2	15.1 15.2	15.1 15.1
16.1	15.1	15.6	16.2	13.8	15.3	15.1
15.8 15.9	15.3 15.5	16.1 16.1	15.0 15.1	15.3 15.3	15.3 15.3	14.6 14.6
16.1	15.6	16.1	15.1	15.3	15.3	14.6
16.1 16.1	15.5 15.5	15.1 15.2	16.3 16.4	14.4 14.5	15.3 15.1	14.9 14.8
16.1	15.5	15.3	16.4	14.6	15.0	14.6

15.9 15.8	15.8 15.8	15.0 15.0	16.1 16.1	14.7 14.6	15.1 15.0	14.1 14.2
15.8	15.7	15.0	16.2	14.5	15.0	14.3
16.2 16.45	15.3 15.2	15.1 15.1	16.1 16.0	15.4 15.0 14.9	14.6 14.7	14.2 14.1
16.6 16.7	15.1	15.1	16.0	14.5	14.7	14.1
15.7 15.7	16.1 16.1	15.8 15.8	16.1 16.1	15.4 15.6	14.0 14.1	14.9 14.9
15.7	16.0	15.8	16.1	15.7	14.2	14.9
16.2 16.1	16.1 16.0	14.6 14.7	16.0 16.0	15.4 15.4	14.1 14.2	15.1 15.1
16.1	16.0	14.9	16.0	15.4	14.2	15.1
16.0 16.0	15.7 15.7	15.9 15.8	14.5 14.5	14.9 14.9	14.8 14.7	15.6 15.6
16.0	15.7	15.6	14.6	15.0	14.5	15.6
15.3 15.3	15.7 15.3	15.7 15.3	15.1 15.0	14.5 14.5	14.8 14.8	15.5 15.5
15.3	15.3	15.3	15.0	14.5	14.8	15.5
16.4 16.8	15.8 15.9	16.3 16.3	16.1 16.0	15.1 15.0	15.3 15.1	14.4 14.3
16.9 17.0	16.0	16.2	15.9	15.0	14.9	14.2
15.6 15.7	16.1 15.1	15.2 15.2	16.2 16.2	15.4 15.5	15.3 15.2	14.9 14.8
15.7	15.0	15.1	16.2	15.6	15.1	14.8
16.1 16.1	15.4 15.3	15.7 15.7	16.2 16.1	15.7 15.6	15.7 15.6	14.9 14.9
16.1	15.2	15.7	16.0	15.5	15.5	14.8
16.6 16.6	16.1 15.1	15.2 15.3	14.8 14.6	14.0 13.9	15.0 15.0	15.4 15.4
16.6	15.1	15.4	14.4	13.9	15.0	15.4
15.5 15.6	16.3 15.4	16.7 15.7	15.0 14.9	14.4 14.3	14.0 15.0	15.0 15.1
15.7	15.4	15.7	14.9	14.2	15.0	15.2
16.1 16.0	15.7 15.7	15.8 15.8	15.3 15.3	14.4 14.4	15.1 15.1	15.1 15.1
16.0	15.6	15.8	15.3	14.5	15.1	15.1
16.9 16.9	15.0 15.0	15.1 15.1	16.0 16.0	15.3 15.3	13.9 13.9	14.6 14.6
17.0	15.0	15.0	15.9	15.4	13.9	14.5
15.6 16.5 16.6	15.4 15.2	15.6 15.5	16.0 15.9	15.4 15.4	14.1 14.0	14.6 14.6
16.5	15.1	15.5	15.9	15.3	14.0	14.6
16.0 15.3	15.5 15.5	15.6 15.3	15.5 15.5	14.4 14.4 14.2	14.5 14.5	15.5 15.8
16.0	15.5	15.6	16.2	13.8	14.6	15.8
15.3	15.3	15.3	15.0	14.8	14.9	14.8

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		2752	2727	2619	2790	2773	2685
15233	26410.272	16.1	16.1	15.7	15.6	15.2	15.5
15250	26412.253	16.2	14.9 15.0	15.3 15.1	16.4 16.5	15.9 15.5	15.1 15.2
15254	26413.355	16.3	15.5 15.5	15.7 15.6	16.3 15.8	15.7 15.6	15.9 15.1
15256	26414.287	16.1	16.1	15.7	16.4	16.2	15.2
15264	26421.249	16.3	16.0 16.1	16.6 15.9	16.4 16.4	16.1 16.0	15.3 15.1
15266	26426.236	16.2	15.8	15.9	16.2	15.7	15.1
15271	26427.255	16.5	16.0 15.8	16.0 16.2	16.4 16.5	16.1 15.7	15.2 15.3
15278	26441.229	16.9	15.3 15.1	14.8 14.6	16.4 16.4	15.5 15.1	15.4 15.4
15287	26444.225	15.9	15.7 15.9	15.6 15.8	16.1 16.1	15.6 15.4	15.6 15.5
15293	26452.220	16.1	16.0 16.1	15.3 15.5	16.3 16.3	15.9 16.1	14.9 14.9
15298	26453.220	16.2	14.9 15.2	14.8 14.8	16.3 16.3	15.8 15.7	15.2 15.4
15303	26454.217	16.2	15.1 15.0	15.3 15.2	16.4 16.5	15.1 15.1	15.2 15.4
15308	26455.214	16.1	15.6 15.7	15.7	15.5	15.4	15.7
15314	26456.214	16.3	15.3 16.0	15.7	15.5	15.7	16.0
15631	26565.613	16.2	15.8 15.4	15.8	16.4	16.1	15.3
15651	26567.629	16.2	15.6 15.7	15.5	15.5	15.7	16.0
15661	26568.622	16.2	15.9	15.8	15.9	15.2	15.5
15672	26570.631	16.9	16.1 16.3	15.9	16.2	15.7	15.1
15680	26571.611	16.9	15.8 15.2	15.8	16.3	16.7	15.4
15686	26572.627	16.5	15.6 15.5	14.7	16.5	16.1	15.5
15693	26573.635	16.1	15.8 15.8	15.1	16.0	15.7	15.7
15703	26577.631	16.9	15.6 16.1	15.8	16.3	15.5	15.4
15739	2426593.615	17.1	16.1	15.9	16.1	15.2	14.0
15748	2426594.599	16.3	16.1 15.9	16.1	15.4	15.2	15.9
15772	2426605.624	16.0	15.8 15.9	16.0	16.4	16.1	15.7

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Reminders

• 2752	• 2727	• 2619	• 433	• 2463	• 934	• 1006
16.1 16.1	16.1 16.1	15.7 15.8	15.1 15.3	14.7 14.6	15.4 15.5	15.5 15.3
- 16.1	16.1	15.8	15.4	14.5	15.5	15.1
16.2 16.2	15.0 15.0	15.1 15.1	15.9 15.9	13.8 13.9	15.3 15.3	15.8 15.8 15.6
16.2	15.0	15.1	15.9	14.0	15.3	15.2
16.3 16.3	15.5 15.4	15.6 15.4	15.8 15.8	14.5 14.5	15.4 15.4	15.5 15.6
16.3	15.1	15.2	15.7	14.5	15.3	15.7
16.7 16.8	16.1 16.1	15.7 15.7	16.0 16.0	14.8 14.8	15.4 15.3	15.2 15.1
16.9	16.1	15.8	16.0	14.8	15.1	15.1
16.3 16.3	16.1 16.1	15.4 15.9	14.9 14.9	15.3 15.2	14.2 14.2	15.0 14.8
16.3	16.0	15.9	14.8	15.1	14.2	14.7
16.2 16.3	15.8 15.8	15.9 15.8	15.7 15.8	14.4 14.3	14.4 14.5	15.5 15.5
16.4 16.4	15.9	15.7	15.8	14.3	14.6	15.5
16.5 16.5	15.8 15.9	16.2 16.2	15.9 15.9	14.4 14.4	14.6 14.7	15.3 15.3
16.6 16.7	15.9	16.2	15.9	14.5	14.8	15.3
Σ 16.9 16.9	15.1 15.0	14.6 14.6	15.4 15.5	14.3 14.4	15.4 15.4	15.8 15.7
17.0	15.0	14.6	15.7	14.5 15.0	15.3	15.6
15.9 15.8	15.9 16.0	15.8 15.8	15.8 15.8	15.0 15.0	15.3 15.2	14.8 14.9
15.7	16.1	15.8	15.8	13.7	15.1	14.9
16.1 16.0	16.1 16.1	15.5 15.6	14.5 14.5	14.5 14.5	14.6 14.6	15.1 15.1
15.8	16.1	15.6	14.5	14.5	14.6	15.1
16.2 16.2	15.2 15.1	14.8 14.7	15.0 15.0	14.1 13.9	14.6 14.5	15.8 15.8
16.2	15.1	14.6	15.1	13.8	14.5	15.7
16.2 16.2	15.0 15.0	15.2 15.3	15.0 15.0	13.8 13.8	14.8 14.8	15.5 15.5
16.2	15.1	15.5	15.0	13.9	14.8	15.6
16.1 16.1	15.7 15.7	15.7 15.7	15.4 15.4	14.4 14.4	14.6 14.6	15.9 15.8
16.1	15.8	15.7	15.4	14.4	14.6	15.6
Σ 16.3 16.3	16.0 16.0	16.0 16.1	15.4 15.3	14.6 14.8	15.1 15.1	15.9 15.9
16.9 16.9	15.9 16.1	16.2	15.3	15.0	15.1	15.9
16.2 16.3	15.8 15.8	15.8 15.8	15.3 15.4	13.8 13.7	14.6 14.7	15.0 15.1
16.2 16.2	15.6 15.7	15.5 15.5	16.0 15.9	14.5 14.5	14.5 14.6	15.8 15.8
16.1	15.7	15.6	15.7	14.5	14.6	14.7
16.2 16.2	15.9 15.8	15.8 15.8	16.0 16.0	14.5 14.5	14.6 14.7	15.7 15.7
16.2	15.8	15.7	16.0	14.5	14.8	15.7
Σ 16.9 16.9	16.3 16.3	15.9 16.0	16.2 16.2	15.0 15.2	15.0 15.1	15.8 15.7
Σ 16.9	16.2	16.1	16.3	15.3	15.1	15.6
Σ 16.9 16.9	15.8 16.0	15.8 15.8	15.9 16.0	15.0 15.1	14.9 15.0	14.9 14.9
16.9	16.1	15.8	16.1	15.1	15.0	15.0
16.5 16.7	15.0 14.8	14.7 14.9	16.0 16.0	15.4 15.4	15.3 15.2	15.2 15.1
16.8	14.6	15.0	16.0	15.3	15.1	15.0
16.1 16.1	15.8 15.8	15.1 15.4	16.0 16.0	15.3 15.3	15.1 15.1	14.3 14.2
16.1	15.8	15.6	16.0	15.4	15.1	14.2
16.9 17.0	15.8 15.9	15.8 15.8	14.8 14.9	15.0 15.0	15.6 15.5	15.0 15.1
17.0	16.1	15.9	15.0	15.0	15.4	15.1
Σ 17.1 17.0	16.1 16.1	15.9 16.0	15.0 15.0	14.1 14.0	14.5 14.5	15.2 15.2
17.0	16.1	16.1	15.0	13.8	14.5	15.1
16.3 16.4	15.9 16.0	16.1 16.1	15.0 15.1	14.2 14.2	14.6 14.6	15.7 15.5 15.5
16.5	16.1	16.1	15.1	14.2	14.6	15.2
16.0 16.0	15.9 15.8	16.0 16.0	15.7 15.8	14.5 14.7	15.4 15.4	14.6 14.5
16.0	15.8	16.0	15.8	14.8	15.4	14.4

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No.

	2752	2727	2619	2790	2773	2685
15796 2426626.518	14.1	15.3 15.1	14.6	16.2	15.7	15.9
15806 2426635.562	17.31	16.0 16.2	15.8	15.9	15.8	15.0
15838 2426679.441	17.3	14.8 15.0	15.5	15.9	16.0	16.0
15847 2426684.383	16.2	15.9 16.1	16.2	16.1	15.4	15.7
15851 2426686.569	16.3	15.3 15.2	15.0	15.5	16.0	15.4
15857 2426689.391	15.8	15.8 16.1	15.9	16.0	15.1	15.5
15858 2426689.546	16.0	16.0 16.2	16.1	16.3	15.1	15.4
15872 26710.335	16.0	15.1	15.1	16.5	15.5	16.0
15878 26712.478	16.4	16.2	16.0	15.5	15.9	14.9
16203 26946.628	17.2	15.9	16.1	16.2	15.7	16.0
16221 26956.619	16.2	16.1	15.7	16.2	15.1	15.4
16230 26960.608	17.3	15.7	15.1	16.2	15.9	15.7
16254 26977.615	16.2	15.1	16.1	15.7	15.5	15.4
16271 26988.564	17.1	15.1	16.1	16.5	15.4	14.9
16279 26989.568	17.3	15.5	16.1	16.1	15.2	15.2
16310 2427059.353	17.2	16.1	15.8	16.0	15.4	15.5
16561 2427310.527	16.2	14.7	16.1	15.7	15.5	15.5
16679 2427413.340	17.3	15.9	15.9	15.5	15.2	14.9
16680 2427413.374	16.6	15.8	15.9	15.7	15.2	14.9
16681 2427421.312	16.5	16.1	14.6	15.9	15.6	15.4
16682 2427421.344	—	16.1	14.4	16.0	15.7	15.2
16684 2427422.272	16.1	16.1	15.1	16.1	15.5	15.4
16688 2427426.296	16.6	15.7	15.9	15.5	15.3	15.1
16689 2427426.329	16.7	16.1	15.9	15.5	15.3	15.1

• 2752	• 2727	• 2619	• 933	• 2463	• 934	• 1006
16.1 16.3 16.5	15.1 15.1 15.1	14.6 14.7 14.9	15.4 15.4 15.4	15.2 15.2 15.2	15.3 15.1 14.9	15.7 15.6 15.5
17.3 17.3 17.2	16.2 16.1 15.1	15.8 16.0 16.1	16.0 16.1 16.2	13.9 13.8 13.8	15.1 15.2 15.3	15.1 15.1 15.1
17.3 17.2 17.0	15.0 15.0 15.0	15.5 15.5 15.5	16.1 16.1 16.2	14.5 14.5 14.5	14.5 14.6 14.7 15.0	15.5 15.5 15.4
16.2 16.2 16.2	16.1 16.1 16.1	16.2 16.2 16.2	14.5 14.5 14.5	15.4 15.3 15.2	15.0 14.9 14.8	15.4 15.4 15.4
16.3 16.3 16.8	15.2 15.3 15.4	15.0 15.1 15.1	15.0 15.0 15.1	15.4 15.3 15.3	15.4 15.3 15.1	15.1 15.1 15.1
15.8 15.8 15.8	16.1 16.1 16.1	15.9 16.0 16.1	15.4 15.5 15.7	14.8 14.7 14.6	15.3 15.3 15.3	14.5 14.4 14.4
16.0 15.8 15.6	16.2 16.2 16.2	16.1 16.1 16.1	15.6 15.5 15.4	14.8 14.9 15.0	15.3 15.4 15.4	14.8 14.7 14.6
16.0 16.0 16.0	15.1 15.1 15.1	15.1 15.0 15.0	16.0 16.1 16.2	15.1 15.2 15.4	14.9 14.9 15.0	16.1 16.0 15.9
16.4 16.3 16.2	16.2 16.2 16.2	16.0 16.1 16.1	15.9 16.0 16.0	15.6 15.6 15.6	15.0 15.0 14.9	15.2 15.1 15.0
17.2 17.2 17.2	15.9 16.0 16.0	16.1 16.1 16.1	15.9 16.0 16.0	16.0 15.8 15.0	15.2 15.1 15.1	14.7 14.7 14.7
16.2 16.3 16.3	16.1 16.1 16.1	15.7 15.4 15.4 15.1	16.0 15.9 15.9	14.0 14.0 14.0	14.1 14.2 14.2	14.9 14.8 14.7
17.3 17.2 17.2	15.7 15.7 15.7	15.1 15.1 15.1	16.3 16.4 16.4	14.9 14.9 15.0	14.8 14.7 14.5	14.6 14.5 14.5
16.2 16.2 16.2	15.1 15.1 15.1	16.1 16.1 16.1	16.2 16.3 16.3	15.6 15.7 15.8	15.7 15.2 15.4 15.2	15.2 15.2 15.1
17.1 17.1 17.2	15.1 15.1 15.0	16.1 16.2 16.2	16.0 16.1 16.2	15.1 15.0 15.0	14.5 14.4 14.4	14.9 14.7 14.6
17.3 17.2 17.0	15.5 15.3 15.1	16.1 16.1 16.2	16.2 16.2 16.3	15.4 15.4 15.4	14.4 14.4 14.4	14.6 14.6 14.7
17.2 17.1 17.0	16.1 15.8 15.6	15.8 15.8 15.7	14.9 14.9 15.0	15.2 15.3 15.4	15.3 15.5 15.6	14.5 14.5 14.5
16.2 16.2 16.2	14.7 14.7 14.6	16.1 16.1 16.2	15.5 15.5 15.5	15.5 15.4 15.3	15.5 15.4 15.3	15.1 15.0 14.9
17.3 17.1 17.0	15.9 15.9 15.9	15.9 16.0 16.2	15.9 15.9 15.9	14.7 14.6 14.5	14.8 14.8 14.5	14.4 14.5 14.5
16.6 16.8 16.9	15.8 15.8 15.7	15.9 16.1 16.2	16.0 16.0 16.0	15.0 15.1 15.1	14.9 14.7 14.6	14.5 14.5 14.5
16.6 16.7 16.8	16.1 16.1 16.2	14.8 14.8 14.9	15.6 15.6 15.7	15.0 15.0 15.0	15.4 15.4 15.4	15.8 15.8 15.7
— 16.3	16.1 16.2 16.2	14.4 14.5 14.6	15.6 15.7 15.8	14.8 14.8 14.9	15.5 15.4 15.4	15.9 15.8 15.7
16.1 16.3 16.5	16.1 16.1 16.2	15.1 15.2 15.3	16.0 15.9 15.9	15.3 15.3 15.2	15.4 15.4 15.4	15.9 15.9 15.8
16.6 16.6 16.6	15.7 15.7 15.7	15.9 15.9 16.0	16.2 16.1 16.0	15.1 15.2 15.4	15.4 15.5 15.5	14.3 14.2 14.2
16.7 16.6 16.6	16.1 16.1 16.1	15.9 16.0 16.1	16.2 16.2 16.2	15.4 15.3 15.2	15.5 15.4 15.4	14.3 14.1 14.0

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No.

16690	2427426.363	16.3	15.9	15.9	15.5	15.2	15.1
16691	2427426.396	17.2	16.0	15.7	15.7	15.4	14.9
16692	2427426.448	16.9	16.1	15.7	15.5	15.4	15.1
16693	2427426.555	16.6	16.1	15.6	15.5	15.4	14.9
16701	2427449.273	—	15.3	16.0	15.8	15.7	15.6
16702	2427449.307	16.6	15.8	15.9	15.9	16.0	15.5
16703	2427449.339	17.2	15.8	16.1	16.1	15.9	15.5
16704	2427449.381	17.1	15.7	15.9	16.1	16.2	15.5
16705	2427449.434	17.2	16.0	16.2	16.0	16.2	15.7
16706	2427449.462	—	15.8	16.0	15.9	16.0	15.5
16707	2427454.363	16.6	15.6	16.0	16.0	15.7	15.2
16712	2427456.276	16.6	15.8	15.8	16.5	16.1	16.0
16713	2427456.309	16.6	16.1	15.7	16.1	15.7	15.5
16714	2427456.354	16.9	16.1	15.7	16.2	15.9	15.7
16715	2427456.387	16.3	16.1	15.8	16.3	15.8	15.4
16716	2427456.533	16.9	16.2	15.7	16.2	15.5	16.0
16717	2427457.277	—	16.1	14.4	16.3	15.2	15.8
16718	2427457.347	16.9	16.2	14.6	16.6	14.8	15.7
16719	2427457.349	17.0	16.2	14.6	16.5	15.2	16.2
16720	2427457.347	17.2	16.2	14.8	16.3	15.2	15.7
16721	2427457.347	17.2	16.1	14.6	16.5	15.1	16.0
16722	2427457.436	16.9	16.1	14.8	16.5	15.4	16.0
16723	2427457.502	16.3	16.1	14.7	16.4	14.9	16.1
16724	2427457.535	16.9	16.6	14.6	16.2	15.3	16.1
17225	2427746.482	15.7	15.7	15.7	16.1	15.7	15.4
17228	2427747.424	16.1	15.6	15.9	16.4	16.0	15.0

Second measures

• 2752	• 2727	• 2619	• 433	• 2463	• 934	• 1006
16.3 16.3 16.8	15.9 16.0 16.1	15.9 15.8 15.8	16.3 16.2 16.2	15.3 15.0 ^{15.1} 16.4	15.3 15.4 15.5	14.3 14.3 14.3
17.2 17.2 17.2	16.0 16.0 16.1	15.7 15.8 15.9	16.2 16.2 16.2	15.6 14.9 14.9	15.6 15.5 15.4	14.2 14.2 14.2
16.9 16.9 17.0	16.1 16.1 16.2	15.7 15.7 15.7	16.2 16.2 16.2	15.1 15.0 15.0	15.6 15.7 15.7	14.0 14.0 14.0
16.6: 16.7 16.8	16.1 16.1 15.8	15.6 15.7 15.7	16.0 16.1 16.1	15.1 15.2 15.3	15.3 15.2 15.2	14.3 14.3 14.3
- 16.9: 15.3: 15.5: 16.9	16.0: 15.9: 15.7:	15.3 15.3 15.3	15.0 14.9 14.8	15.4 15.3 15.3	15.4 15.3 15.3	15.4 15.6 15.6 15.3
16.6 16.6 ⁷ 16.6 16.8	15.8 15.8 15.8	15.9 16.0 16.2	15.2 15.2 15.2	15.1 15.1 15.0	15.3 15.3 15.3	15.8 15.8 15.8
17.2 17.2 17.1	15.8 15.8 15.8	16.1 16.1 16.1	15.1 15.2 15.3	15.1 15.0 15.0	15.4 15.4 15.4	15.5 15.6 15.8
17.1 17.1 17.1	15.7 15.8 15.8	15.9 16.1 16.2	15.1 15.1 15.1	15.1 14.9 14.8	15.2 15.2 15.1	15.8 15.7 15.7
17.2 17.1 17.1	16.0 16.0 16.0	16.2 16.2 16.2	15.4 15.4 15.3	15.1 15.0 15.0	15.7 15.5 15.3	15.7 15.7 15.7
- 16.3: 15.8: 15.8 16.3	16.0: 16.0: 16.1	15.1 15.0 15.0	15.1 15.1 15.0	15.3 15.3 15.3	15.8 15.8 15.8	15.8 15.8 15.8
16.6 16.4 16.2	15.6 15.5 15.5	16.0 16.1 16.1	16.0 16.0 16.0	15.1 15.2 15.3	15.8 15.6 15.4	14.6 14.6 14.6
16.6 16.6 ⁷ 16.7 16.7	15.8: 16.0 16.1	15.8 15.8 15.9	16.0 16.0 16.1	14.6 14.8 14.9	15.3 15.3 15.3	14.5 14.5 14.5
16.6 16.6 ⁸ 16.4 16.1	16.1 16.1 16.1	15.7 15.7 15.8	16.2 16.2 16.2	14.5 14.5 14.6	15.4 15.5 15.6	14.5 14.4 14.4
16.9 16.9 17.0	16.1 16.1 16.0	15.7 15.7 15.7	15.9 15.9 16.0	14.6 14.8 15.0	15.4 15.3 15.2	14.5 14.5 14.4
16.3 16.3 16.3	16.1 16.1 16.1	15.8 15.8 15.7	16.2 16.1 16.0	14.5 14.5 14.5	15.3 15.3 15.3	14.5 14.4 14.4
16.9 16.9 16.9	16.2 16.2 16.2	15.7 15.5 15.4	16.0 16.0 16.0	14.8 14.6 14.5	14.9 15.5 15.3 15.4	14.6 14.5 14.4
16.9 16.9 16.9	16.2 16.2 16.2	14.4 14.7 14.8	16.2 16.2 16.2	14.6 14.6 14.6	15.3 15.3 15.3	14.5 14.5 14.5
17.0 17.0 16.9	16.2 16.2 16.2	14.6 14.8 15.0	16.2 16.2 16.2	14.5 14.5 14.4	15.4 15.4 15.4	14.5 14.4 14.3
17.2 17.0 16.8	16.2 16.1 16.1	14.8 14.9 15.0	16.1 16.1 16.2	14.4 14.4 14.4	15.4 15.4 15.3	14.5 14.4 14.4
17.2 16.9 16.9	16.1 16.1 16.1	14.6 14.7 14.8	16.2 16.2 16.2	14.3 14.3 14.3	15.3 15.3 15.4	14.8 14.7 14.6
16.9 16.9 17.0	16.1 16.2 16.2	14.8 14.7 14.6	16.2 16.2 16.2	14.3 14.2 14.1	15.5 15.4 15.3	14.5 14.5 14.4
16.9 16.9 16.9	16.1 16.1 16.1	14.7 14.7 14.7	16.2 16.2 16.2	14.4 14.4 14.4	15.6 15.6 15.6	14.5 14.6 14.6
15.7 15.7 15.8	15.7 15.7 15.7	15.7 15.7 15.7	15.9 15.9 15.4	14.1 14.1 15.4	15.1 15.2 14.1	14.5 14.5 15.6
16.1 16.1 16.1	15.8 15.9 16.0	15.9 16.0 16.2	15.8 15.7 15.7	15.1 15.1 15.1	14.4 14.4 14.6	15.7 15.7 15.8

132

A

w

	2752	2727	2619	2790	2773	2685	
17232 2427749.409	16.6	16.2	15.2	16.1	14.9	15.5	16.
17234 2427749.489	16.6	16.1	15.2	15.9	15.0	15.4	16.1
17239 2427750.440	16.9	15.1	15.0	15.5	15.4	15.5	16.1
17247 2427755.362	16.2	16.1	15.6	16.5	15.1	15.4	16.1
17249 2427755.452	16.1	16.2	15.7	16.8	15.1	15.3	16.1
17268 2427786.315	16.7	14.6	14.7	16.0	15.7	14.9	16.7
17280 2427799.286	16.1	15.6	15.5	16.1	15.7	14.9	16.1
17281 2427799.331	16.3	15.5	15.6	16.0	15.7	14.8	16.3
17282 2427799.328	16.2	15.5	15.1	15.7	15.5	14.4	16.1
17283 2427799.446	16.1	15.7	15.5	15.9	15.7	14.9	16.1
17284 2427799.482	16.1	15.7	15.2	16.1	15.7	15.0	16.1
17285 2427799.532	16.2	15.7	15.6	16.0	15.4	14.9	16.2
17287 2427800.283	16.3	15.7	15.7	16.0	15.2	15.1	16.1
17288 2427800.320	16.8	15.7	15.6	16.2	15.3	15.2	16.8
17289 2427800.377	17.0	15.8	15.7	16.2	15.1	15.1	17.0
17290 2427800.414	16.7	15.9	15.7	16.1	14.9	15.4	16.7
17291 2427800.472	17.5	16.0	15.7	16.5	15.2	15.2	17.5
17292 2427800.507	16.9	15.8	15.7	16.5	15.1	15.2	16.9
17293 2427800.555	16.7	15.9	15.8	16.0	15.1	15.0	16.7
17294 2427801.283	16.9	16.2	15.7	16.2	15.2	15.3	16.9
17295 2427801.321	17.0	16.1	16.0	16.3	15.4	15.2	17.0
17298 2427802.499	17.2	16.1	15.9	15.7	15.5	15.5	17.2
17299 2427802.552	17.2	16.1	16.0	15.7	15.4	15.5	17.2
17300 2427803.283	16.6	16.0	16.0	16.2	15.4	15.1	16.6

Second measures

133

• 2752	• 2727	• 2619	• 933	• 2463	• 934	• 1006
16.6 16.7 16.8	16.2 16.2 16.2	15.2 15.4 15.6	15.9 15.9 15.9	14.8 14.9 15.0	14.6 14.5 14.5	15.8 15.7 15.6
16.6 16.6 16.5	16.1 16.2 16.2	15.2 15.3 15.5	16.0 16.0 15.9	14.6 14.6 14.6	14.4 14.4 14.5	15.8 15.8 15.8
16.9 16.9 16.9	15.1 15.1 15.2	15.0 15.0 15.1	16.0 15.9 15.8	14.5 14.3 14.1	14.9 14.7 14.6	15.2 15.2 15.1
16.2 16.3 16.5	16.1 16.2 16.2	15.6 15.7 15.8	15.9 15.9 16.0	15.0 14.9 14.8	15.1 15.0 14.8	14.5 14.5 14.5
16.1 16.2 16.3	16.2 16.2 16.2	15.1 15.1 15.2	16.0 16.0 15.9	14.9 14.9 14.8	15.0 15.0 15.0	14.5 14.5 14.5
16.7 16.7 16.7	14.6 14.6 14.6	14.7 14.8 15.0	16.0 16.0 16.0	15.4 15.4 15.4	15.3 15.2 15.1	14.8 14.7 14.6
16.1 16.2 16.2	15.6 15.6 15.6	15.5 15.6 15.7	16.0 16.1 16.2	15.0 15.0 15.0	14.2 14.3 14.3	14.6 14.5 14.5
16.3 16.3 16.4	15.5 15.3 15.1	15.6 15.5 15.3	16.2 16.1 16.1	15.0 15.0 15.1	14.4 14.4 14.5	14.6 14.6 14.5
16.2 16.2 16.3	15.5 15.5 15.6	15.1 15.2 15.2	16.0 16.0 16.0	15.0 15.1 15.1	14.1 14.1 14.1	14.7 14.7 14.6
16.1 16.1 16.2	15.7 15.2 15.3 15.1	15.5 15.5 15.4	16.3 16.3 16.3	15.0 15.0 15.0	14.2 14.1 14.1	14.6 14.5 14.4
16.1 16.2 16.2	15.7 15.6 15.5	15.2 15.2 15.3	16.2 16.1 16.0	15.3 15.2 15.1 15.0	14.4 14.2 14.1	14.6 14.6 14.7
16.2 16.1 16.1	15.7 15.8 15.8	15.6 15.7 15.7	16.2 16.2 16.3	14.9 14.9 15.0	14.1 14.1 14.1	14.6 14.6 14.6
16.3 16.4 16.6	15.7 15.7 15.7	15.7 15.7 15.7	16.0 16.1 16.2	15.4 15.4 15.4	14.1 14.3 14.4	14.6 14.7 14.8
16.8 16.8 16.8	15.7 15.7 15.7	15.6 15.6 15.7	16.0 16.1 16.1	15.3 15.3 15.2	14.1 14.2 14.4	14.7 14.7 14.6
17.0 16.9 16.9	15.8 15.8 15.8	15.7 15.7 15.6	15.9 16.0 16.0	15.3 15.4 15.4	13.9 14.0 14.1	14.8 14.8 14.8
16.7 16.8 17.0	15.9 15.9 15.8	15.7 15.6 15.6	16.0 15.9 15.9	15.3 15.3 15.4	13.9 13.9 13.8	14.7 14.7 14.7
17.5 17.3 17.1	16.0 16.0 14.0	15.7 15.5 15.3	16.1 16.2 16.2	15.4 15.4 15.4	14.0 14.1 14.2	14.7 14.7 14.7
16.9 16.9 17.0	15.8 16.0 16.1	15.7 15.7 15.8	16.0 16.0 16.0	15.0 15.0 14.9	14.2 14.2 14.1	14.9 14.8 14.6
16.7 16.8 16.8	15.9 15.9 15.8	15.8 15.9 16.0	16.2 16.1 16.1	15.1 15.3 15.5	13.8 13.9 13.9	14.9 14.8 14.7
16.9 16.8 16.7 17.0	16.2 16.2 16.2	15.7 16.1 16.0 16.2	15.9 15.9 15.9	15.2 15.3 15.4	14.0 14.2 14.3	14.9 15.1 15.2
17.0 17.1 17.2	16.1 16.1 16.1	16.0 16.0 16.0	15.9 15.9 15.9	15.2 15.3 15.5	13.9 14.0 14.1	14.8 14.8 14.9
17.2 17.1 17.1	16.1 16.1 16.1	15.9 16.0 16.2	15.9 16.0 16.0	15.4 15.4 15.5	14.3 14.2 14.1	15.2 15.2 15.2
17.2 17.2 17.2	16.1 16.2 16.2	16.0 16.0 16.0	15.9 15.9 16.0	15.4 15.3 15.3	14.1 14.1 14.1	15.0 15.0 15.0
16.6 16.6 16.5	16.0 16.1 16.1	16.0 16.0 16.0	15.1 15.0 15.0	13.9 13.8 13.8	15.0 15.0 15.0	15.2 15.2 15.0

134

A

hr

		2752	2727	2619	2790	2773	2685	
17301	2427807.317	16.8	16.0	16.0	16.5	15.3	15.4	16.8
17302	2427807.365	16.6	16.2	15.9	16.4	15.4	15.2	16.6
17303	2427807.399	16.7	16.1	15.9	16.2	15.2	15.1	16.
17304	2427807.443	—	15.8	15.9	16.4	15.1	15.2	—
17305	2427807.476	16.3	16.2	15.9	16.3	15.2	15.1	16.
17306	2427807.516	16.7	16.1	15.8	16.3	15.4	15.2	16.7
17307	2427807.549	16.6	16.1	15.8	16.1	15.4	15.2	16.6
17308	2427808.282	17.1	16.1	16.0	16.2	15.5	15.4	17.
17309	2427808.317	17.2	16.2	15.9	16.2	15.7	15.4	17.2
17310	2427808.368	17.2	16.1	15.8	16.1	15.6	15.4	17.
17311	2427808.402	17.0	16.2	15.9	16.5	15.5	15.3	17.0
17315	2427811.274	15.8	15.6	15.3	15.7	16.0	15.7	15.8
18016	2428078.413	16.1	15.1	15.0	16.5	16.0	15.7	16.1

Second measures.

• 2752 • 2727 • 2619 • 433 ✓ • 2463 • 934 • 1006

135

16.8	16.8	16.0	16.0	16.0	16.1	15.1	15.2	13.8	13.8	14.6	14.7	15.4	15.4
16.8		16.1		16.1		15.3		13.8		14.9		15.4	
16.6	16.7	16.2	16.2	15.9	16.0	15.6	15.5	13.9	13.9	14.6	14.6	15.3	15.4
16.7		16.2		16.1		15.3		13.9		14.5		15.5	
16.7	16.8	16.1	16.1	15.9	15.9	15.4	15.4	13.9	13.9	14.5	14.5	15.2	15.2
16.8		16.2		16.0		15.3		14.0		14.6		15.2	
-	16.3	15.8	15.8	15.9	16.0	15.0	15.1	13.8	13.8	14.8	14.8	15.1	15.3
16.3		15.8		16.0		15.3		13.9		14.9		15.5	
16.3	16.3	16.2	16.2	15.9	15.9	15.3	15.2	13.9	13.9	15.1	15.0	15.4	15.5
16.4		16.1		16.0		15.0		13.8		14.9		15.5	
16.7	16.7	16.1	16.1	15.8	15.8	15.3	15.3	14.0	14.0	14.7	14.7	15.1	15.2
16.8		16.1		15.8		15.3		14.1		14.6		15.2	
16.6	16.6	16.1	16.1	15.8	16.0	15.0	15.1	13.9	13.9	14.6	14.6	15.4	15.3
16.5		16.1		16.1		15.3		14.0		14.7		15.2	
17.1	17.1	16.1	16.1	16.0	16.1	15.4	15.6	13.9	13.9	15.0	14.8	15.1	15.1
17.2		16.2		16.2		15.7		13.9		14.6		15.0	
17.2	17.0	16.2	16.2	15.9	16.1	15.1	15.5	13.9	14.0	14.8	14.8	15.0	14.8
16.9		16.1		16.2		15.6		14.2		14.8		14.6	
17.2	17.1	16.1	16.1	15.8	15.8	15.7	15.6	14.6	14.5	14.5	14.5	14.9	15.0
17.1		16.2		15.9		15.5		14.4		14.5		15.2	
17.0	17.0	16.2	16.2	15.9	16.1	15.5	15.5	14.2	14.3	14.8	14.7	14.9	14.9
16.9		16.2		16.2		15.4		14.5		14.6		15.0	
15.8	15.9	15.6	15.6	15.3	15.4	15.8	15.8	15.0	14.8	15.3	15.2	14.5	14.4
16.0		15.6		15.6		15.8		14.7		15.1		14.4	
16.1	16.1	15.1	15.1	15.0	16.1	16.2	16.2	15.1	15.2	15.5	15.5	15.1	15.1
16.0		15.1		15.1		16.2		15.3		15.4		15.0	

136

proportional center of plate
5444 - 670

A	2861	2722	999	971	2770	2773
190 13896.571	16.5	14.5	15.3	16.3	off plate	off plate
191 13901.765	16.0	15.7	14.8	15.2	off plate	off plate
2204 13952.549	16.0	14.3	15.2	15.1	15.9	15.2
3427 14638.713	16.7	15.2	15.3	15.5	off plate	off plate
4928 15380.628	15.6	14.5	15.5	15.6	15.5	15.5
11154 20605.513	15.6	14.8	15.2	15.4	16.0	16.0
11587 21155.751	—	15.6	15.3	15.7	—	15.7
14348 25926.526	16.4	15.0	15.0	14.8	16.0	15.9
17071 242768.649	15.8	15.3	15.2	15.1	15.7	16.0
17101 2427670.615	16.3	14.5	15.2	15.5	16.0	16.0
17118 2427681.634	15.7	15.3	15.3	15.6	16.4	15.8
17173 2427700.590	16.4	15.1	15.1	15.6	16.0	15.7
17213 2427728.4996	16.5	15.0	15.0	15.7	16.2	16.2
17216 2427730.561	16.4	15.2	14.6	14.9	15.8	15.1
17254 2427756.380	15.3	15.3	14.8	15.7	15.8	15.2
17328 red plate 8x10						
17333 red plate 8x10						
17360 red plate 8x10						
17366 red plate 8x10						
17375 red plate 8x10						
17918 28034.651	16.2	15.3	14.8	16.1	15.3	15.2
18006 2428071.603	15.8	14.6	14.9	15.7	17.0	16.1
17948 28041.643	16.5	15.0	15.3	15.2	15.6	15.2
17259 2427776.560	16.0	14.7	14.7	14.8	16.0	15.5
19725 24776.6368	15.4	14.6				16.2
19731 24777.6355	16.2	14.1				15.3
19746 24782.6270	16.2	15.6				16.2
19750 24783.6098	15.5	15.1				15.5

2685	2536	2491	935	2432	952	934
off plate	off plate	too close to edge	too close to edge	off plate	off plate	—
off plate	off plate	too close to edge	too close to edge	too close to edge	off plate	—
15.2	15.4	15.0	15.0	15.1	15.8	15.5
off plate	15.4	15.0	14.5	14.4	off plate	14.0
15.8	14.3	15.3	14.8	14.4	15.0	15.2
16.1	15.1	15.5	15.5	15.1	15.3	15.3
15.5	15.6	15.4	15.3	15.0	15.3	15.2
16.0	15.4	15.6	15.0	14.9	16.1	15.4
15.7	15.0	15.9	15.4	14.6	16.0	14.4
15.2	14.8	15.8	14.9	14.4	15.2	15.2
14.8	15.1	15.0	15.6	14.5	15.3	15.4
15.2	15.1	15.9	15.0	14.7	15.1	15.4
15.1	15.1	15.4	14.9	14.8	15.2	15.1
15.8	15.5	15.4	15.3	15.2	15.7	15.6
15.7	15.3	- defect -	14.9	14.5	15.0	15.3

15.0	15.2	15.4	15.4	15.0	15.2	14.8
16.0	15.1	15.5	15.4	14.9	15.7	15.5
15.1	15.4	15.6	15.5	14.5	16.2	15.5
15.7	15.2	15.3	14.6	14.8	15.3	14.3
15.4	15.4	15.3	15.0	15.4	15.6	15.6
15.7	14.4	15.6	15.4	15.4	15.3	15.3
15.2	15.5	15.1	15.0	15.4	15.5	15.5
15.4	15.2	15.4	15.4	15.4	15.6	15.6

1934phae30j.24480

approximate
138 center 4 plates 545^h - 70°

2172	13877.808	2752 16.1	2727 16.1	2619 15.5	5954 15.2	2790 15.4	2773 15.5	2685 15.5
2969	14394.519	15.1	15.3	16.2	15.9	16.1	—	15.9
8210	17563.728	—	15.5	15.6	15.9	15.8	[15.8	15.2
+ ruled								
11588	21155.801	—	16.0	[16.0	15.7	16.2	—	—
got my plate								
11717	21490.834	too poor omitted						
got my plate								
11719	21493.849	—	—	—	—	15.6!!	—	14.8
got my plate poor plate								
11721	21494.748	—	—	—	—	—	—	—
got my plate poor omitted								
11722	21495.843	—	—	—	—	—	—	—
got my plate poor plate omitted								
14302	25912.557	missing						
14366	25940.528	15.6	16.2	15.2	16.0	15.9	15.1	15.9
17078	2427660.634	15.8	15.9	14.4	15.7	16.1	14.9	15.7
17102	2427670.656	16.8	16.1	16.0	16.2	15.7	15.9	15.2
17146	2427691.634	16.2	14.9	15.6	16.0	15.7	15.1	15.6
17174	2427700.624	16.7	16.1	16.4	16.2	16.5	15.2	15.4
17188	2427714.594	17.0	15.1	14.7	15.8	16.1	15.7	14.8
17214	2427728.547	—	15.7	15.7	15.6	16.4:	16.2	15.1
17217	2427730.596	16.9	16.1	16.2	16.1	15.8	14.9	15.8
17255	2427756.442	16.5:	14.3	15.1	16.1	15.7	15.2	15.5
17329	red 8x10							
17334	red 8x10							
17361	red 8x10							
17367	red 8x10							
17376	red 8x10							
17917	2428834.617	15.7	16.1	16.2	15.7	15.5	15.3	15.1
17942	2428040.645	16.3	16.2	16.2	15.5	15.9	15.7	15.4

Imagined
do not
take any
measurements
139

934	1006	2537 ⁶	2491	935 ^{15.4}	2932 ^{14.6}	927	952 ^{15.1?}
2861	999	14.5 ^{14.7}	16.0 ^{15.7}	15.5	15.1	15.8 ^{15.7}	15.0
14.5	16.0					15.5	
—	14.0	14.9 ^{15.7?}	not on plate	not on plate	14.9	15.0	15.4
15.6	14.0	15.4	15.5	15.5	14.4	15.5 ^{15.6?}	14.9
—	15.2	not on plate	not on plate	not on plate	14.5	16.0?	14.8
		14.6			not on plate	14.9?	15.4?
					14.8?		15.1?
15.0	15.1	15.2?	15.2	15.1	15.0	—	—
		14.7?			15.1	—	15.3;
					14.6?	—	14.8?
—	15.2	15.7	not on plate	not on plate	15.3	15.2	15.2
14.2	15.4	15.5	15.0	—	14.3	14.8	15.5
15.6	14.6	14.8	15.7	14.9	14.5	14.8	15.0
14.4	16.0	15.6	15.4	15.3	14.3	15.0	15.4
15.6	14.7	15.5	15.9	15.4	14.9	15.1	15.0
14.8	14.5	14.4	15.9	15.1	14.5	16.0	15.0
15.5	14.9	15.3	15.6	15.4	15.1	15.1	15.4
15.7	15.2	15.3	16.1	16.0	15.1	14.8	15.4
15.6	14.6	15.8	15.4	14.9	14.5	15.1	15.3
15.0	15.3	15.3	15.7	15.8	15.1	15.2	15.1
15.7	14.6	15.1	15.5	15.7	14.3	16.1	16.0

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		2752	2727	2619	⁵ 5924	2790	2773	2685
17978	2428051.635	16.2	16.1	15.7	16.1	16.5	15.9	15.7
17978	2428066.6225	17.0	14.8	15.1	16.2	16.1	15.1	15.5
18022	2428082.610	17.0	16.1	16.0	15.7	16.1	15.7	15.1
18171	2428157.5565	16.1	16.0	15.1	15.7	16.2	15.5	16.0
16556		<u>40.405</u>	<u>2358</u>	<u>2337</u>	<u>2722</u>	<u>971</u>		
8210	17563.728	15.3	15.2		14.8	15.0		
		15.4		15.7	16.0			
2172	13877.808	14.7	15.8					
14366	25940.528	14.7	15.9					

omitted

19725

19731

19745

85	934 2861	1006 999	2537 ⁶	2491	935	2432	927	952 ¹¹
7	15.5	14.3	14.6	16.0	15.4	14.6	15.4	16.0
5	15.3	14.3	15.2	15.2	14.8	14.7	15.6	16.0
1	14.6	15.1	15.1	15.2	15.2	14.6	15.1	16.1
0	15.7	15.2	15.4	15.9	15.8	15.0	15.5	15.9
					omitted	omitted	omitted	omitted

Proximate position 5^h05^m-67^s

142

905

2358

2337

2536

2491

935

2432

2

A 2158 13876.814

15.6

16.0

15.7

14.9

15.9

15.2

14.8

1

2194 13922.694

15.7

16.0

14.7

15.3

15.4

15.9

14.9

B 3348 14584.788

15.8

16.1

15.9

14.7

16.1

15.4

14.2

4214 omitted

not in region

8564 17966.591

16.0

15.8

15.5

14.9

15.2

15.1

14.8

11574 21134.884

gating plate

11585 21154.692

gating plate

11703 21479.876

gating plate

11707 21485.830

gating plate

11715 21489.849

15.5

15.5

15.9

15.0

15.5

15.5

14.8

14378 25946.477

15.3

16.0

15.8

15.8

16.2

14.5

14.3

17065 2427653.651

15.8

15.6

16.1

15.9

15.1

15.4

14.8

17077 2427660.599

15.0

15.9

16.0

16.1

14.6

15.4

14.2

17085 2427664.614

15.7

15.7

15.2

15.5

14.9

15.0

17116 2427681.563

15.4

15.9

16.0

15.4

15.2

15.8

14.1

17152 24 21695.627

14.1

15.9

16.0

15.0

15.9

15.0

14.5

17203 2427726.459

15.8

15.8

15.5

15.2

15.3

15.4

14.2

17252 2427756.301

15.0

16.3

15.8

15.9

15.6

14.5

14.3

17257 2427776.479

14.6

16.1

15.8

16.0

15.5

15.0

14.5

17324 red plate

17327 red plate

17332 red plate

17359 8x10 red plate

17365 red plate

2685	999	971	2722	934
15.7	14.8:	15.3	too close to edge	13.9
—	14.8:	15.6	14.6:	15.6
too close to edge	14.8:	14.5:	15.4	14.5
15.3	14.7	15.2	14.7	14.5
			HV2861	
			16.0:	
—	15.0:	15.5:	—	14.5
16.0:	15.8:	15.0:	too close to edge	14.4
15.7	14.9:	15.3	14.2:	15.3
15.1	15.2:	15.1	too close to edge	14.1
—	14.8:	15.2:	too close to edge	14.5
15.0:	15.0:	15.2:	too close to edge	15.0
14.9	15.2:	14.5:	too close to edge	14.4
15.5:	15.4:	15.0:	14.2:	14.8
15.5:	14.7	15.4:	15.4:	15.0
not on plate	14.7:	15.0:	15.0:	14.2

144

A 17374 red plate

905 2358 2337 2536 2491 935 2432 2

7916 2428034.592 15.9 16.0 15.0 15.5 15.7 15.3 14.4 15

17926 2428035.636 15.9 16.0 15.5 15.8 15.9 15.6 15.0 1

18170 2428157.507 14.5 15.9 14.7 16.0 15.9 15.2 14.6

18864 2428408.592 15.4 15.8 16.0 14.9 15.8 15.4 15.0

19009 2428488.954 14.5 15.9 15.6 16.0 15.0 15.8 14.4

4811 15309.874
omitted18719 all stars off
8x10 plate omitted18900 2428379.629 16.0 16.0 16.0 15.6 15.1 15.3 14.4
2428423.606

19000 2428486.398 15.6 15.9 15.1 15.4 16.0 15.0 14.9

18193 red plate omitted omitted omitted

19674 28728.6177 15.5 16.5 16.0 15.5

19683 28759.5628 15.2 16.0 15.9 14.7 14.7

19694 28761.5569 14.2 15.9 14.7 15.1

19700 28762.5722 15.0 15.7 15.3 15.4

19703 28763.6259 15.5 16.0 15.5 15.6

19723 28776.5333 15.5 15.9 15.4 15.4

19742 28780.6280 15.9 15.8 15.9 14.6

2685	999	971	2722	934
15.9	14.9!!	15.3	no close to edge	14.7
15.1	14.7!!	14.6	15.2!	14.6
15.0	14.7!	15.4	15.6!	15.2
15.0	14.8!!	14.9!	no close to edge	15.2
15.2	15.3	15.3	14.2	15.0

15.2	15.6!!	14.9	14.2!	14.4
14.8	15.0!!	14.5!	15.3	14.8

omitted

omitted

omitted

omitted

13.9

14.1

13.9

14.5

14.2

15.4

15.3

Center 5^h 5^m - 71.0

146

HV2337

2358

1905

2536

2491

735

2432

9

A 2193

13922.617

off plate

15.9

15.6

15.3

off plate

off plate

15.4

15

3428

14639.708

off edge

15.6

14.3

16.2

16.0

15.5

14.7

1

8562

17965.607

off plate

off plate

too close to edge

off plate

off plate

off plate

off plate

1

11576

21135.839

omitted

11578

21141.817

11709

21486.833

poor omitted

11711

21487.832

omitted too poor

11713

21487.832

omitted

17070

2427658.612

15.5

15.7

14.3

15.5

16.4

15.5

14.5

17100

2427670576

15.5

16.0

14.2

15.3

15.9

15.0

14.5

17117

2427681.594

16.3

15.9

14.9

15.3

15.1

15.4

14.4

17145

2427691.588

15.4

15.8

15.0

16.0

16.0

15.0

14.4

17151

2427694.594

15.0

15.8

14.2

15.0

16.3

15.3

14.8

17172

2427700.558

16.0

15.9

15.7

15.5

15.9

15.2

14.4

17212

2427728.464

15.9

15.8

15.0

15.5

15.9

15.0

14.6

17215

2427730.521

16.0

16.0

14.5

16.0

16.0

15.5

15.0

17253

2427756.336

16.0

15.9

14.6

16.0

15.7

15.0

14.3

17258

2427776.524

16.0

16.1

14.7

16.0

15.9

15.2

15.0

17915

2428034.555

15.5

15.0

15.4

15.5

15.9

15.6

14.8

17925

2428035.597

15.8

15.9

14.6

15.8

16.0

15.6

15.0

18169

2428157.465

15.2

15.9

14.4

16.0

16.1

15.7

15.3

Trailed

18847

2428465.640

15.9

16.0

14.3

15.9

15.9

15.4

15.0

11704

21480.824

omitted

gating 23

19741

28780.587

16.2

15.2

15.9

19673

28758.5699

16.0

16.2

15.2

19684

28759.6136

16.2

16.0

14.7

19695

28761.6068

14.9

15.8

14.3

19701

28762.6186

15.7

15.9

14.5

19702

28763.5888

15.9

15.9

14.6

19724

28776.5839

15.5

15.9

14.6

92.7	^{Images by method also in sequence} 15.2	2685	2752	2727	2619	5954	1006
15.3:	16.1:	<u>blurred</u>	—	15.1	15.7::	15.7::	15.6
14.9	16.2	15.0:	16.0:	16.6:	16.0::	16.1	15.0
15.5::	15.3:	<u>scattered image</u>	16.2	16.1	15.0	16.1	15.1

15.5:	15.8	15.8	—	16.0	15.8:	15.7:	14.7
14.7	15.0	15.1	—	16.0	16.2	16.0	14.5
16.0:	15.2	14.8	16.0	15.9:	15.8	16.0	15.0
15.3:	14.9	15.3	—	15.0:	14.8:	16.0	15.8
15.2	15.8	14.8	—	16.1	16.0	16.2	15.4
15.2:	15.0:	15.4	—	16.2	16.2	16.2	14.6
16.0	15.3	15.1	—	15.8	15.7	15.6	14.5
15.0	15.4	15.1	—	15.9::	16.0::	16.0::	15.1
15.6:	15.0:	15.5	[16.3	15.0	14.4	15.9	14.6
14.7:	14.9	15.4	16.3	15.8	15.8	15.5	15.7
15.7:	15.2:	14.8	16.1	16.3	15.5	15.4:	15.5
15.8:	15.0:	15.1	16.2	16.1	16.1	16.0:	15.1
15.6	15.4	15.7	16.0	15.8	15.0	15.8:	15.5
15.9:	15.8:	16.0	—	15.5	16.2	16.3	15.4
<u>omitted</u>	<u>omitted</u>	<u>omitted</u>		<u>omitted</u>			

[16.3	15.2	16.0	14.9
[16.3	16.2	15.1	16.0
[16.3	16.2	15.7	14.7
16.1	15.2	16.1	15.0
[16.3	15.0	16.1	14.2
[16.3	15.8	15.8	14.3
16.2	15.9	15.1	14.2

148

A

2157

2203

7098

7101

12648

12700

12699

13244

13558

13607

15287

16293

15850

15858

15872

16561

16679

16682

16702

16723

17239

17290

17299

17307

17310

HV952

HV2432

15.6

15.8

14.7

14.7

15.8

15.8

14.6

14.6

16.0

16.1

14.5

14.5

16.2

16.2

14.5

14.5

15.0

15.0

14.8

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15.0

15.0

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15.0

15.0

14.3

14.4

15.0

15.1

14.8

14.8

15.1

15.1

14.8

14.8

15.4

15.4

14.9

14.7

15.3

15.3

14.7

14.6

15.4

15.4

14.6

14.6

16.0

16.0

14.9

14.9

16.0

16.0

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14.9

15.0

14.5

14.5

15.0

15.0

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14.4

16.1

16.1

14.3

14.3

15.4

15.6

14.5

14.4

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15.7

14.3

14.3

15.0

15.1

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14.6

14.9

15.0

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15.0

15.0

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14.5

14.5

15.9

16.0

15.0

14.9

16.0

16.0

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14.9

15.3

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14.8

15.7

15.7

15.0

15.0

15.9

15.9

14.4

14.4

15.8

15.8

14.4

14.4

15.7

15.8

14.3

14.2

15.8

15.8

14.2

14.2

15.0

15.1

14.9

14.9

15.3

15.3

14.9

14.9

15.8

15.8

15.1

15.1

15.8

15.8

15.0

15.0

1934phae.proj.2448M

1934phase.proj, 2448M