

KG
11366
v. 758

*Investigation of the
Discussion*

Charles W. Sever, University Bookstore, Cambridge.

Investigation of the errors of the East-Quadrant for 45° 90° 135° 180° 225° 270° 315° divisions.

New. of - ϵ
E. in units of ϵ

$\epsilon =$	0-45	45-90	90-135	135-180	180-225	225-270	270-315	315-360	Page.
Sept. 5	-473	-0.97	+3.40	+3.00	+4.37	+3.07	-2.90	-5.23	III 20
Sept. 8	-5.40	-0.65	+3.20	+3.85	+5.05	+2.50	-3.90	-5.60	" 24
9	-5.10	-1.05	+3.75	+3.10	+5.85	+2.10	-2.80	-6.65	
10	-4.55	-0.85	+3.70	+3.05	+5.45	+2.35	-2.60	-6.30	
11	-4.77	-0.93	+3.00	+2.95	+5.25	+2.80	-3.05	-5.85	
	-4.88	-1.89	+3.35	+3.15	+5.19	+2.57	-2.97	-5.93	
Sept. 5	-4.69	-0.93	+3.14	+3.04	+4.41	+3.11	-2.86	-5.19	
8	-5.34	-0.59	+3.26	+3.91	+5.11	+2.56	-3.39	-5.54	
9	-5.05	-0.95	+3.85	+3.25	+5.95	+2.25	-2.75	-6.55	
10	-4.58	-0.88	+3.67	+3.02	+5.42	+2.32	-2.63	-6.33	
11	-4.69	-0.85	+3.08	+3.03	+5.33	+2.88	-2.97	-5.77	
	-4.87	-0.84	+3.40	+3.25	+5.24	+2.62	-2.92	-5.88	
Sept. 12	-4.48	-1.98	+3.77	+3.17	+5.17	+2.92	-2.78	-5.78	38
	-4.60	-2.10	+3.65	+3.05	+5.05	+2.80	-2.90	-5.90	
12	-5.50	-1.15	+3.12	+4.20	+4.95	+2.95	-3.00	-5.35	40
12	-5.75	-1.70	+3.35	+3.40	+5.60	+2.50	-2.80	-6.30	42
12	-5.65	-1.40	+3.25	+4.30	+4.50	+3.10	-3.45	-5.20	44
12	-5.35	-0.15	+2.50	+3.45	+4.40	+2.00	-2.30	-5.55	46
12	-5.25	-1.28	+3.20	+3.70	+4.92	+2.69	-2.16	-5.64	
	-5.37	-1.30	+3.17	+3.68	+4.92	+2.67	-2.89	-5.60	
Sept. 12	-4.48	-1.98	+3.77	+3.17	+5.17	+2.92	-2.78	-5.78	
12	-5.52	-1.17	+3.08	+4.18	+4.93	+2.93	-3.02	-5.37	
12	-5.54	-1.49	+3.56	+3.61	+5.81	+2.71	-2.59	-6.09	
12	-5.58	-1.33	+3.32	+4.37	+4.57	+3.17	-3.38	-5.13	
12	-5.40	0.00	+2.65	+3.60	+4.55	+2.15	-2.15	-5.40	
	-5.30	-1.19	+3.28	+3.79	+5.01	+2.78	-2.78	-5.55	

Zero at E.
E to G.

									Page
Sept. 18	-5.00	-0.90	+3.35	+3.60	+3.85	+2.70	-3.60	-3.85	68
19	-6.35	-0.85	+3.35	+3.55	+5.35	+2.30	-3.25	-4.75	70
Sept. 19	-5.15	-1.20	+3.30	+4.00	+4.90	+2.90	-3.35	-5.55	72
Sept. 19	-5.00	-1.35	+3.60	+3.60	+4.25	+3.80	-3.70	-5.60	74
19	<u>-5.60</u>	<u>-1.20</u>	<u>+3.75</u>	<u>+3.50</u>	<u>+5.05</u>	<u>+2.90</u>	<u>-3.30</u>	<u>-5.35</u>	76
	-5.42	-1.10	+3.47	+3.65	+4.68	+2.92	-3.44	-5.00	

Zero at E
E to A.

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Sept. 5	-21.27	-14.70	-7.20	+4.70	+4.87	+21.07	+5.37	+11.37	III 20
8	-23.10	-16.60	-9.05	+5.80	+13.95	+17.85	+1.55	+9.50	24
9	-20.45	-12.80	-7.70	+4.80	+8.80	+17.40	+7.30	+8.00	30
10	-24.05	-18.00	-4.70	+0.30	+12.20	+15.35	+4.65	+12.50	
11	<u>-14.52</u>	<u>-22.58</u>	<u>-4.00</u>	<u>+1.95</u>	<u>+11.35</u>	<u>+18.60</u>	<u>+2.95</u>	<u>+11.50</u>	
10839									
-21.678	-17.94	-6.54	+4.11	+10.22	+18.05	+4.36	+10.58		

Sept. 5

Sept. 5	-21.80	-15.23	-7.73	+4.17	+4.34	+20.54	+4.84	+10.84	
8	-23.09	-16.59	-9.04	+5.81	+13.96	+17.86	+1.56	+9.51	
9	-25.49	-12.84	-7.79	+4.76	+8.76	+17.36	+7.26	+8.01	
10	-23.83	-17.78	-4.48	+0.52	+12.42	+15.57	+4.87	+12.72	
11	<u>-15.68</u>	<u>-23.74</u>	<u>-5.16</u>	<u>+4.79</u>	<u>+10.19</u>	<u>+17.44</u>	<u>+1.79</u>	<u>+10.34</u>	
	-21.98	-17.24	-6.84	+4.01	+9.93	+17.75	+4.06	+10.28	

Sept. 12	-17.80	-23.00	-6.15	+6.80	+9.90	+15.20	+7.95	+12.25	38
12	-26.80	-16.70	-6.05	+4.50	+8.15	+20.70	+4.10	+15.80	40
12	-24.15	-18.40	-6.70	+3.55	+7.90	+19.15	+6.10	+12.65	42
12	-29.10	-16.10	-7.95	+7.40	+6.00	+21.75	+1.35	+17.10	44
12	<u>-21.85</u>	<u>-18.65</u>	<u>-7.45</u>	<u>+6.05</u>	<u>+5.70</u>	<u>+19.55</u>	<u>+1.60</u>	<u>+16.15</u>	46
	-21.94	-18.57	-6.86	+5.66	+7.53	+19.27	+4.22	+14.79	

Sept. 12	-18.44	-23.64	-6.79	+6.16	+9.26	+14.56	+7.31	+11.61	
12	-27.26	-17.16	-6.51	+4.04	+7.69	+20.24	+3.64	+15.34	
12	-24.16	-18.41	-6.71	+3.54	+7.89	+19.14	+6.09	+12.64	
12	-29.16	-16.16	-8.01	+7.34	+5.94	+21.69	+1.29	+17.04	
12	<u>-21.99</u>	<u>-18.79</u>	<u>-7.59</u>	<u>+5.91</u>	<u>+5.56</u>	<u>+19.41</u>	<u>+1.46</u>	<u>+16.01</u>	
	-24.20	-18.83	-7.12	+5.40	+7.27	+19.01	+3.96	+14.53	

Zero at E.
E to A.

									Page
Sept. 18	-18.35	-21.00	-4.75	+7.55	+8.10	+15.50	+0.75	+12.30	68
19	-22.45	-17.10	-7.15	+5.85	+9.10	+15.55	+7.05	+11.65	70
19	-27.10	-19.70	-4.60	+6.50	+10.80	+16.45	+3.85	+9.55	72
19	-18.45	-20.35	-5.95	+6.10	+7.95	+23.25	+0.40	+11.40	74
19	<u>-24.75</u>	<u>-16.40</u>	<u>-6.75</u>	<u>+3.60</u>	<u>+11.10</u>	<u>+20.20</u>	<u>+3.55</u>	<u>+12.40</u>	76
	-22.22	-18.91	-5.84	+5.92	+9.41	+18.19	+3.12	+11.46	

Zero at E.
E to B.

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Sept. 5	-24.37	+4.73	+20.57	+41.67	+23.40	-1.37	-33.20	-32.67	20
8	-37.60	+12.00	+23.35	+50.25	+25.45	-1.10	-44.10	-31.85	24
9	-36.10	+8.90	+22.00	+49.95	+21.25	-6.25	-37.30	-37.55	30
10	-36.50	+7.00	+31.25	+43.90	+15.95	-0.70	-37.45	-30.85	
11	-26.20	+1.47	+17.70	+43.20	+24.00	+0.30	-37.00	-32.20	
	-32.15	+6.22	+22.98	+45.79	+22.01	-1.82	-37.81	-33.02	

Sept. 5	-24.21	+4.89	+20.73	+41.83	+23.56	-1.21	-33.04	-32.51	
8	-37.15	+12.45	+23.80	+50.70	+25.90	-0.65	-43.65	-31.40	
9	-33.84	+8.16	+24.31	+52.21	+23.51	-3.99	-35.04	-35.29	
10	-35.57	+7.93	+32.18	+44.83	+16.88	+0.23	-36.52	-29.92	
11	-25.11	+2.56	+18.79	+44.29	+25.09	+1.39	-35.91	-31.11	

Sept. 12	-27.95	-0.65	+22.25	+46.25	+22.10	-0.15	-36.80	-35.20	38
12	-30.80	+4.90	+21.40	+52.56	+21.95	-1.25	-34.20	-32.80	40
12	-35.85	+0.45	+26.75	+45.60	+24.15	-1.70	-30.70	-37.60	42
12	-32.95	+5.95	+17.10	+55.85	+22.10	+0.80	-39.20	-32.70	44
12	-28.90	+2.05	+19.10	+45.90	+19.35	+0.40	-39.50	-26.05	46
	-31.29	+2.54	+21.32	+49.23	+21.93	-0.54	-35.98	-32.75	

Sept. 12	-26.68	+0.62	+23.52	+47.52	+23.37	+1.12	-35.53	-33.93	
12	-31.02	+4.68	+21.18	+52.33	+21.73	-1.47	-34.42	-33.02	
12	-34.81	+1.49	+27.79	+46.64	+25.19	-0.66	-29.66	-35.96	
12	-32.47	+6.43	+17.58	+56.33	+22.58	+0.48	-38.72	-32.22	
12	-27.94	+3.01	+20.26	+46.86	+20.31	+1.36	-38.54	-25.09	

Zero at E.
E to B.

									Page
Sept 18	-28.55	+1.10	+18.70	+51.15	+25.60	+1.70	-40.90	-27.80	68
19	-37.50	+4.10	+24.30	+49.75	+19.85	-4.05	-37.65	-31.45	70
19	-30.95	+6.05	+24.25	+47.50	+23.30	+0.30	-39.80	-34.50	72
19	-27.90	+6.20	+23.25	+48.65	+16.65	+3.35	-42.45	-34.95	74
19	<u>-31.90</u>	<u>+6.35</u>	<u>+26.65</u>	<u>+47.30</u>	<u>+25.55</u>	<u>-1.00</u>	<u>-37.90</u>	<u>-32.60</u>	76
	-31.36	+4.76	+23.43	+48.87	+22.19	+0.06	-39.74	-32.26	

Zero at E.
E to F

Page

Sept. 5	-4.63	-3.17	0.00	+1.40	+2.13	+3.60	+2.60	-1.67	29
8	-5.40	-2.15	-0.90	+2.05	+2.85	+3.30	+2.60	-2.25	25
9	-5.00	-3.20	+0.40	+1.65	+2.25	+3.25	+2.25	-2.00	
10	-5.20	-2.90	-0.05	+1.00	+3.50	+3.60	+1.95	-1.85	
11	-4.60	-3.50	+0.10	+1.70	+2.10	+3.50	+2.10	-0.15	
	-4.97	-3.09	-0.08	+1.36	+2.68	+3.48	+2.30	-1.72	

Sept. 5	-4.66	-3.20	-0.03	+1.37	+2.10	+3.57	+2.57	+1.70	
8	-5.41	-2.16	-0.91	+2.04	+2.84	+3.29	+2.59	-2.26	
9	-4.96	-3.66	+0.44	+1.69	+2.79	+3.39	+2.29	-1.96	
10	-5.21	-2.91	-0.06	+0.99	+3.49	+3.59	+1.94	-1.86	
11	-4.68	-3.63	+0.07	+1.62	+2.07	+3.47	+2.02	-0.93	

Sept. 12	-4.70	-4.25	+0.35	+1.35	+3.55	+2.45	+2.95	-1.90	38
12	-5.90	-3.85	+0.30	+2.25	+2.20	+4.40	+2.50	-1.75	40
12	-5.85	-3.20	0.00	+0.85	+2.95	+4.25	+2.60	-2.65	42
12	-6.25	-3.60	+0.15	+1.90	+2.95	+3.45	+2.40	-1.40	44
12	-5.05	-2.95	-0.05	+1.60	+2.40	+3.80	+1.30	-0.80	46
	-5.55	-3.57	+0.15	+1.59	+2.81	+3.67	+2.35	-1.70	

Sept. 12	-4.68	-4.23	+0.37	+1.37	+3.57	+2.47	+2.97	-1.88	
12	-5.92	-3.87	+0.28	+2.23	+2.18	+4.38	+2.48	-1.77	
12	-5.72	-3.07	+0.13	+0.98	+3.08	+4.38	+2.73	-2.52	
12	-6.20	-3.55	+0.20	+1.95	+3.00	+3.50	+2.45	-1.35	
12	-5.08	-2.98	-0.08	+1.57	+2.37	+3.77	+1.27	-0.83	

Zero at E
E to F.

									Page
Sept. 18	-4.25	-3.70	+0.30	+2.05	+1.95	+3.35	+1.95	-1.25	69
19	-5.70	-3.50	+0.60	+1.40	+2.40	+4.15	+2.55	-2.40	71
19	-5.60	-3.15	-0.30	+1.85	+3.10	+3.55	+1.75	-1.60	73
19	-4.45	-4.10	+0.30	+1.20	+2.95	+5.45	+0.65	-2.00	75
19	<u>-5.10</u>	<u>-3.30</u>	<u>-0.10</u>	<u>+1.45</u>	<u>+3.10</u>	<u>+4.10</u>	<u>+2.50</u>	<u>-2.25</u>	77
	-5.02	-3.55	+0.16	+1.59	+2.70	+4.12	+1.88	-1.90	

Zero at E.
E to H.

									Page
Sept. 5	-0.93	+0.10	+4.80	+3.60	0.00	-1.80	-3.87	-2.27	21
8	-2.25	+0.65	+4.55	+4.00	+0.65	-2.55	-4.20	-2.45	25
9	-2.30	+0.46	+5.35	+4.00	+0.05	-2.10	-3.60	-3.10	31
10	-1.95	+0.15	+5.70	+2.95	+0.55	-2.20	-3.75	-2.45	33
11	-1.70	+0.22	+4.10	+3.70	+0.20	-1.35	-4.25	-1.90	35
	-1.84	+0.32	+4.90	+3.65	+0.29	-2.00	-3.93	-2.43	
Sept. 5	-0.88	+0.15	+4.85	+3.65	+0.05	-1.75	-3.82	-2.22	
8	-2.05	+0.85	+4.75	+4.20	+0.85	-2.35	-4.00	-2.25	
9	-2.18	+0.57	+5.52	+4.17	+0.22	-1.93	-3.43	-2.93	
10	-1.82	+0.28	+5.83	+3.08	+0.68	-2.07	-3.62	-2.32	
11	-1.58	+0.34	+4.22	-1.18	+5.32	-1.23	-4.13	-1.78	
Sept. 12	-1.55	-0.25	+5.05	+3.10	+0.90	-2.25	-3.55	-2.40	38
12	-1.55	+0.80	+4.90	+3.80	-0.20	-1.25	-3.10	-3.00	40
12	-2.10	+1.00	+4.90	+3.40	+0.05	-1.30	-3.80	-3.05	42
12	-2.25	+0.80	+4.70	+5.05 4.95	-0.15	-2.00	-3.85	-1.45	44
12	-2.20	+0.25	+3.30	+4.70	-0.40	-1.55	-4.00	-2.30	46
	-1.93	+0.64	+4.57	+3.99	+0.04	-1.67	-3.66	-2.44	
Sept. 12	-1.43	-0.13	+5.17	+3.22	+1.02	-2.13	-3.43	-2.28	
12	-1.60	+0.75	+4.85	+3.75	-0.25	-1.30	-3.15	-3.05	
12	-1.99	+1.11	+5.01	+3.51	+0.16	-1.19	-3.69	-2.94	
12	-2.34	+0.71	+4.61	+4.86	-0.24	-2.09	-3.94	-1.54	
12	-1.94	+0.61	+3.56	+4.96	-0.14	-1.29	-3.74	-2.04	

Zero at E.
E to H.

									Page
Sept. 18	-1.60	[+0.95	+4.75]	+3.90	-0.40	-1.90	-3.60	-1.55	69
19	-2.60	+0.25	+5.50	+3.95	+0.40	-1.90	-3.90	-1.35	71
19	-1.65	+0.80	+4.45	+3.70	+0.50	-2.20	-3.40	-3.00	73
19	-1.20	+0.40	+4.95	+3.90	0.00	-1.40	-4.05	-3.00	75
19	-1.60	+0.85	+4.95	+3.85	+0.60	-2.35	-3.50	-2.80	77
	-1.73	+0.57	+4.96	+3.86	+0.22	-1.95	-3.69	-2.34	

Zero at G.
G to E.

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										Page
69	Sept. 5	+5.60	+0.70	- 3.70	-3.40	- 3.90	- 2.80	+2.10	+6.10	22
71	8	+5.30	+0.75	- 2.90	-4.20	-4.30	- 2.90	+3.00	+5.50	24
73	9	+5.50	+1.20	- 2.95	-4.15	-4.25	- 3.50	+3.70	+5.20	30
75	10	+5.70	+0.80	-3.60	-3.20	-5.15	-2.45	+3.65	+4.25	32
77	11	<u>+5.35</u>	<u>+0.30</u>	<u>-3.25</u>	<u>-3.00</u>	<u>-4.85</u>	<u>-2.35</u>	<u>+3.15</u>	<u>+5.10</u>	36
		+5.49	+0.75	-3.28	-3.59	-4.49	-2.80	+3.12	+5.23	

Sept. 5	+5.51	+0.61	-3.79	-3.49	-3.49	-2.89	+2.01	+6.01
8	+5.30	+0.75	-2.90	-4.20	-4.30	-2.90	+3.00	+5.50
9	+5.41	+1.11	-3.04	-4.24	-4.34	-3.59	+3.61	+5.11
10	+5.70	+0.80	-3.60	-3.20	-5.15	-2.45	+3.65	+4.25
11	+5.29	+0.24	-3.31	-3.06	-4.91	-2.41	+3.09	+5.04

Sept. 15	+4.45	+0.75	-3.80	-3.35	-4.60	-3.10	+3.85	+5.10	48
16	+5.95	+0.85	-3.25	-3.55	-5.15	-3.20	+3.30	+5.90	50
16	+5.70	+0.35	-3.35	-3.80	-4.80	-3.15	+3.20	+5.70	52
16	+5.45	+0.45	-3.20	-3.85	-4.30	-3.05	+2.95	+5.70	54
16	+5.85	+0.60	-4.15	-3.40	-4.55	-2.75	+2.55	+6.20	56
	+5.48	+0.60	-3.55	-3.59	-4.68	-3.05	+3.17	+5.72	

Sept. 15	+4.45	+0.75	-3.80	-3.35	-4.60	-3.10	+3.85
16							
16							
16							
16							

Zero at G.
G to E.

									Page
Sept. 22	+6.05	-0.05	-3.25	-3.60	-4.80	-2.80	+2.85	+6.30	78
22	+6.25	-0.65	-3.10	-4.05	-4.30	-3.30	+3.30	+5.20	80
22	+5.90	+0.80	-3.60	-3.55	-4.70	-3.65	+3.90	+5.90	82
22	+5.55	+0.50	-3.30	-3.85	-5.60	-2.35	+3.10	+6.15	84
22	<u>+5.20</u>	<u>-0.15</u>	<u>-3.10</u>	<u>-3.80</u>	<u>-4.65</u>	<u>-3.40</u>	<u>+3.90</u>	<u>+6.00</u>	86
	+5.79	+0.09	-3.27	-3.77	-4.81	-3.10	+3.41	+5.91	

Sept. 23	+5.40	+0.80	-3.95	-3.10	-4.90	-2.85	+3.10	+5.80	88
23	+4.95	+1.05	-3.70	-2.70	-4.85	-3.05	+3.05	+5.65	90
23	+4.80	+0.35	-3.85	-3.10	-4.80	-2.65	+3.25	+5.75	92
23	+4.40	+1.50	-3.15	-3.30	-5.00	-3.25	+3.70	+5.25	94
23	<u>+5.70</u>	<u>+0.80</u>	<u>-3.25</u>	<u>-3.50</u>	<u>-5.15</u>	<u>-3.05</u>	<u>+3.40</u>	<u>+5.45</u>	96
	+5.05	+0.90	-3.58	-3.14	-4.94	-2.97	+3.30	+5.58	

Zero at G.
G to B.

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										Page
78	Sept. 5	+16.90	+12.50	-9.30	+15.30	-11.20	-22.10	-16.80	+14.70	22
80	8	+8.95	+15.75	-1.55	+18.95	-18.70	-19.85	-15.20	+11.35	24
82	9	+8.75	+20.05	-5.15	+18.45	-8.00	-24.05	-14.70	+17.85	30
84	10	+15.80	+11.85	-2.05	+19.70	-20.95	-19.50	-12.35	+10.60	32
86	11	+13.65	+8.10	-6.45	+20.30	-12.40	-26.40	-14.25	+14.50	36
		+12.81	+13.65	-4.90	+18.55	-14.25	-22.38	-14.66	+13.80	

Sept. 5	+16.90	+12.50	-9.30	+15.30	-11.20	-22.10	-16.80	+14.70
8	+8.99	+15.79	-1.51	+18.99	-18.66	-19.81	-15.16	+11.39
9	+7.10	+18.40	-6.80	+16.80	-9.65	-25.70	-16.35	+16.20
10	+15.80	+11.85	-2.05	+19.70	-20.95	-19.50	-12.35	+10.60
11	+14.02	+8.47	-6.08	+20.67	-12.03	-26.03	-13.88	+14.87

88	Sept. 15	+11.50	+11.90	-5.95	+18.35	-19.60	-24.95	-13.85	+11.25	48
90	16	+12.85	+16.25	-0.65	+18.35	-22.15	-24.10	-14.10	+14.00	50
92	16	+11.45	+15.55	-7.00	+20.80	-17.50	-25.20	-13.15	+13.40	52
94	16	+10.10	+15.35	-3.20	+20.50	-18.05	-24.50	-12.10	+14.60	54
96	16	+13.75	+13.60	-7.60	+22.85	-19.25	-23.10	-15.15	+14.05	56
		+11.93	+14.53	-4.89	+20.07	-19.31	-24.37	-13.87	+13.46	

Zero at G
G to B.

									Page
Sept. 22	+20.55	+6.85	-5.15	+19.85	-21.55	-18.05	-15.30	+12.60	78
22	+17.10	+10.60	-1.15	+14.85	-15.90	-22.90	-12.35	+9.90	80
22	+13.45	+15.10	-5.55	+19.60	-19.75	-21.25	-11.20	+13.15	82
22	+10.40	+16.15	-1.35	+14.40	-19.25	-20.25	-15.20	+14.90	84
22	<u>+12.85</u>	<u>+11.70</u>	<u>-1.90</u>	<u>+21.40</u>	<u>-21.25</u>	<u>-22.25</u>	<u>-12.80</u>	<u>+16.45</u>	86
	+14.87	+12.08	-3.02	+18.02	-19.54	-20.94	-13.37	+13.40	

Sept. 23	+14.45	+7.85	-5.15	+21.65	-21.00	-23.45	-12.00	+14.60	88
23	+9.90	+17.30	-4.75	+18.50	-19.35	-24.55	-13.85	+17.20	90
23	+12.50	+10.55	-6.75	+19.45	-17.90	-20.55	-17.20	+17.45	92
23	+14.90	+10.90	-1.90	+21.90	-16.90	-21.65	-14.05	+11.75	94
23	<u>+17.75</u>	<u>+18.95</u>	<u>-5.75</u>	<u>+21.45</u>	<u>-23.30</u>	<u>-18.95</u>	<u>-13.65</u>	<u>+10.75</u>	96
	+13.90	+13.11	-4.86	+20.59	-19.69	-21.89	-14.15	+14.35	

Zero at G.
G to A.

Page

Sept 5	+26.60	-13.10	-37.20	-20.40	-30.30	~~+4.20~~ ~~-8.80~~	+29.10	+61.60	22
8	+18.25	-11.30	-31.20	-26.75	-28.10	-0.75	+25.15	+53.30	24
9	+20.75	-5.75	-35.30	-20.65	-31.75	-5.70	+36.45	+57.35	30
10	+21.95	-8.95	-38.40	-17.70	-36.30	-0.20	+29.75	+53.25	32
11	+22.75	-13.80	-32.10	-20.95	-26.25	-3.50	+28.70	+54.85	36
	+22.86	-10.58	-34.84	-21.30	-30.54	-3.09	+28.95	+56.07	

Sept. 5	+25.23	-14.47	-38.57	-21.77	-31.67		+23.33	+60.23	
8	+18.42	-11.13	-31.03	-26.58	-27.93	-0.58	+25.32	+53.47	
9	+19.45	-7.05	-36.60	-21.95	-32.05	-7.00	+30.15	+56.05	
10	+21.52	-9.38	-38.83	-18.13	-36.73	-0.63	+29.32	+52.82	
11	+21.47	-15.08	-33.38	-22.23	-27.53	-4.28	+27.42	+53.57	

Sept. 15	+16.50	-7.65	-40.25	-18.80	-27.65	-4.90	+29.35	+57.25	48
16	+20.45	-5.55	-35.50	-24.95	-28.65	-7.65	+29.25	+59.30	50
16	+18.50	-8.95	-36.75	-23.60	-29.95	-5.65	+29.05	+58.40	52
16	+17.35	-9.35	-32.50	-22.30	-30.95	-6.70	+29.55	+57.95	54
16	+19.45	-10.85	-35.85	-22.05	-33.80	-1.10	+27.50	+56.30	56
	+18.45	-8.47	-36.17	-22.18	-30.20	-5.20	+28.94	+57.84	

Zero at G.
G to A.

									Page
Sept. 22	+24.60	-14.70	-30.00	-25.45	-34.25	-2.20	+30.80	+55.20	78
22	+22.20	-15.50	-32.60	-25.05	-30.85	-4.65	+28.20	+56.15	80
22	+21.05	-8.50	-36.15	-23.45	-30.85	-6.15	+31.65	+58.00	82
22	+20.20	-12.95	-31.85	-25.85	-33.05	-0.60	+28.95	+58.50	84
22	+18.10	-14.25	-33.05	-16.40	-28.50	-2.05	+30.55	+59.40	86
	+21.23	-13.18	-32.73	-23.24	-31.50	-3.13	+30.03	+57.45	

Sept. 23	+17.15	-12.00	-33.20	-19.35	-34.40	-2.80	+31.95	+53.95	88
23	+18.65	-9.10	-34.25	-20.35	-28.40	-5.05	+27.50	+57.55	90
23	+15.75	-11.25	-37.00	-21.65	-27.30	-1.50	+30.30	+59.75	92
23	+20.45	-12.85	-30.65	-22.40	-29.85	-4.25	+30.65	+55.05	94
23	+24.80	-14.90	-31.90	-20.10	-31.65	-7.15	+31.15	+56.85	96
	+19.36	-12.02	-33.40	-20.77	-30.32	-4.15	+30.31	+57.05	

Zero at G.
G to H.

Page

Sept 5	+3.70	+1.20	+0.50	+0.50	-3.90	-4.20	-1.20	+2.90	23
8	+3.55	+1.55	+0.85	+0.70	-4.45	-4.05	-1.35	+2.60	25
9	+2.95	+2.00	+1.25	+0.50	-4.95	-4.90	-0.80	+3.60	31
10	+3.65	+1.30	+1.25	+0.80	-5.10	-4.40	-0.25	+2.60	33
11	+3.50	+0.50	+1.25	+1.20	-4.40	-5.15	-0.50	+3.00	37
	+3.47	+1.31	+1.02	+0.65	-4.56	-4.54	-0.82	+2.94	

Sept. 5	+3.76	+1.26	+0.56	+0.56	-3.84	-4.14	-1.14	+2.96	
8	+3.68	+1.68	+0.98	+0.38	-4.32	-3.92	-1.22	+2.73	
9	+2.99	+2.04	+1.29	+0.54	-4.91	-4.86	-0.76	+3.64	
10	+3.67	+1.32	+1.27	+0.82	-5.08	-4.38	-0.23	+2.62	
11	+3.58	+0.58	+1.33	+1.28	-4.32	-5.07	-0.42	+3.08	

Sept. 15	+3.10	+1.00	+1.75	+0.25	-4.00	-5.95	-0.95	+3.50	48
16	+3.95	+2.10	+1.10	+0.05	-4.70	-4.70	-1.35	+3.50	50
16	+4.20	+1.30	+1.45	+0.00	-4.05	-4.85	-0.90	+3.20	52
16	+3.35	+1.50	+1.60	+0.30	-4.50	-4.90	+0.00	+2.85	54
16	+4.00	+1.45	+0.90	+0.55	-4.90	-4.70	-1.05	+3.65	56
	+3.72	+1.47	+1.60	+0.23	-4.43	-5.02	-0.85	+3.34	

Zero at G.
G to H.

									Page
Sept. 22	+3.95	+0.70	+1.25	-0.10	-3.95	-4.40	-1.45	+3.10	79
22	+4.55	+1.10	+1.15	-0.50	-4.00	-4.80	-1.10	+3.20	81
22	+4.00	+1.30	+1.45	+0.20	-4.20	-4.90	-0.80	+2.95	83
22	+4.50	+1.20	+1.00	+0.45	-4.95	-4.45	-1.80	+4.00	85
22	<u>+4.40</u>	<u>+1.10</u>	<u>+1.40</u>	<u>+0.25</u>	<u>-4.45</u>	<u>-5.25</u>	<u>-0.50</u>	<u>+3.80</u>	87
	+4.28	+1.08	+1.25	+0.06	-4.31	-4.80	-1.13	+3.41	

Sept. 23	+3.32	+1.20	+1.30	+0.15	-4.30	-4.50	-0.60	+3.60	89
23	+3.80	+1.75	+1.40	+0.55	-4.65	-4.70	-0.80	+3.35	91
23	+3.70	+0.90	+0.90	+0.30	-4.45	-4.75	-0.95	+3.75	93
23	+4.00	+0.90	+1.95	+0.95	-4.75	-5.40	-0.35	+2.80	95
23	<u>+4.20</u>	<u>+1.25</u>	<u>+1.35</u>	<u>+0.50</u>	<u>-4.55</u>	<u>-5.60</u>	<u>-0.25</u>	<u>+2.75</u>	97
	+3.80	+1.20	+1.38	+0.31	-4.44	-5.11	-0.59	+3.25	

Zero at G
G to H

	<u>0-45.</u>	<u>45-90.</u>	<u>90-135.</u>	<u>135-180</u>	<u>180-225</u>	<u>225-270</u>	<u>270-315</u>	<u>315-360.</u>	Page
Sept. 5	0.00	-2.50	-3.60	-1.40	-1.80	+0.80	+4.60	+4.70	23
8	-0.50	-2.40	-3.00	-2.20	-1.90	+0.85	+4.80	+3.95	25
9	-0.15	-1.90	-2.85	-2.35	-2.25	+0.35	+6.55	+3.70	31
10	+0.70	-2.25	-3.10	-1.95	-3.15	+1.60	+7.55	+1.35	33
11	-0.35	-2.85	-3.35	-1.20	-2.15	+1.15	+5.45	+4.30	37
	-0.06	-2.38	-3.18	-1.82	-2.25	+0.95	+5.79	+3.60	
Sept. 5	-0.10	-2.60	-3.70	-1.50	-1.90	+0.70	+4.50	+4.60	
8	-0.45	-2.35	-2.95	-2.15	-1.85	+0.90	+4.85	+4.00	
9	-0.29	-2.04	-2.99	-2.49	-2.39	+0.21	+6.41	+3.56	
10	+0.61	-2.34	-3.19	-2.04	-3.24	+1.51	+7.46	+1.26	
11	-0.48	-2.98	-3.48	-1.33	-2.28	+1.02	+5.32	+4.17	
Sept. 15	-0.05	-3.00	-2.85	-1.80	-2.05	+0.55	+5.80	+3.60	49
16	+0.10	-2.10	-3.55	-2.05	-2.15	+0.75	+5.10	+3.95	51
16	+0.10	-2.40	-2.85	-2.95	-1.85	+1.10	+5.75	+3.05	53
16	+0.40	-2.85	-2.15	-2.10	-2.10	+1.25	+5.35	+3.30	55
16	+0.15	-2.05	-3.95	-2.10	-2.40	+1.70	+5.00	+4.45	57
	+0.14	-2.48	-3.07	-2.20	-2.11	+1.07	+5.40	+3.67	

Zero at G.
G to F.

									Page
Sept. 22	+0.90	-3.75	-2.75	-2.05	-2.50	+1.45	+5.55	+3.15	79
22	+0.60	-3.50	-3.15	-1.60	-2.70	+0.80	+5.50	+3.20	81
22	+0.50	-2.40	-3.15	-2.80	-1.40	+0.35	+5.80	+3.75	83
22	+0.10	-2.85	-2.75	-2.35	-2.45	+1.20	+5.55	+4.00	85
22	<u>-0.05</u>	<u>-3.35</u>	<u>-2.35</u>	<u>-2.25</u>	<u>-2.35</u>	<u>+1.10</u>	<u>+5.40</u>	<u>+4.35</u>	87
	+0.43	-3.17	-2.83	-2.21	-2.28	+0.98	+5.56	+3.69	

Sept. 23	+0.05	-2.60	-2.95	-1.55	-2.50	+0.75	+5.75	+3.60	89
23	-0.30	-2.60	-3.00	-1.45	-2.25	+0.70	+5.60	+3.60	91
23	+0.35	-3.10	-3.00	-1.65	-2.05	+0.65	+5.95	+4.05	93
23	+0.45	-3.80	-2.10	-1.95	-2.35	+0.95	+5.40	+3.10	95
23	<u>+0.55</u>	<u>-2.90</u>	<u>-2.85</u>	<u>-1.40</u>	<u>-2.75</u>	<u>+0.70</u>	<u>+5.30</u>	<u>+3.80</u>	97
	+0.20	-3.00	-2.78	-1.60	-2.38	+0.75	+5.60	+3.63	

Zero at C.
C to G.

Page

Sept. 17	-6.00	-0.70	+3.45	+3.35	+5.25	+2.30	-3.10	-5.45	58
17	-5.40	-1.10	+3.20	+3.20	+5.55	+3.25	-3.95	-5.90	60
17	-5.80	-1.15	+3.90	+4.00	+4.90	+2.20	-2.90	-5.45	62
17	-5.10	-1.45	+3.65	+3.90	+5.20	+1.95	-3.20	~~-5.05~~	64
17	<u>-5.70</u>	<u>-0.70</u>	<u>+3.35</u>	<u>+3.35</u>	<u>+4.75</u>	<u>+3.55</u>	<u>-3.55</u>	<u>-5.05</u>	66
	-5.60	-1.02	+3.51	+3.56	+5.13	+2.65	-3.34	-5.38	

Zero at E.
E to A.

Page

Sept. 17	-25.45	-17.05	-5.50	+4.65	+13.45	+15.70	+3.30	+11.15	58
17	-18.40	-19.75	-5.35	+3.95	+8.35	+22.65	+2.90	+11.25	60
17	-23.25	-21.15	-6.05	+8.35	+8.05	+18.90	+6.00	+14.15	62
17	-22.90	-18.05	-8.20	+6.85	+11.30	+16.10	+5.00	+12.80	64
17	-21.95	-18.45	-5.10	+6.65	+10.30	+16.50	+4.05	+17.10	66
	-22.39	-18.89	-6.04	+6.09	+12.86	+17.97	+4.25	+13.29	

Zero at E.
E to B.

									Page
Sept. 17	-36.65	+5.55	-23.30	+47.80	+22.90	+1.70	-40.30	-32.65	58
17	-30.80	+2.75	+25.20	+48.70	+24.10	+0.15	-39.70	-35.85	60
17	-28.25	+3.70	+25.50	+52.70	+21.25	-2.90	-38.60	-32.45	62
17	-30.70	+5.80	+25.35	+50.70	+25.50	-4.25	-39.40	-32.10	64
17	-32.25	+6.80	+22.10	+50.75	+19.85	+3.45	-38.05	-33.30	66
	-31.73	+4.92	+24.29	+50.13	+22.72	-0.37	-39.21	-33.27	

Zero at E.
E to F.

									Page
Sept. 17	-6.05	-3.80	+0.90	+1.35	+2.90	+4.30	+1.50	-1.65	59
17	-5.65	-3.55	+0.50	+0.85	+2.95	+4.30	+2.50	-1.80	61
17	-5.70	-3.70	+0.25	+1.95	+2.45	+4.40	+2.15	-1.35	63
17	-5.40	-3.50	+0.65	+1.70	+3.15	+3.20	+2.35	-1.40	65
17	<u>-5.40</u>	<u>-4.05</u>	<u>+1.00</u>	<u>+1.45</u>	<u>+2.80</u>	<u>+3.90</u>	<u>+2.75</u>	<u>-2.00</u>	67
	-5.64	-3.72	+0.66	+1.46	+2.85	+4.02	+2.25	-1.64	

Zero at E.
E to H.

									Page
Sept. 17	-2.50	+0.30	+4.45	+4.50	+0.15	-1.95	-4.05	-2.55	59
17	-1.60	+0.30	+5.10	+3.60	+0.60	-1.45	-4.40	-2.70	61
17	-1.35	+0.20	+5.30	+3.70	+0.05	-2.10	-3.70	-2.15	63
17	-1.05	+0.25	+4.95	+3.70	+0.75	-2.90	-3.50	-2.30	65
17	<u>-1.55</u>	<u>+0.60</u>	<u>+4.25</u>	<u>+3.90</u>	<u>+0.50</u>	<u>-1.75</u>	<u>-4.35</u>	<u>-1.70</u>	67
	-1.61	+0.33	+4.81	+3.88	+0.41	-2.03	-4.00	-2.28	

Division of the east-Circle into 2 equal parts.

First method of investigation

$$\text{Let } R = \varepsilon_0 - \delta$$

$$R' = \varepsilon_{120} - \delta_0$$

" x = The correction for the division $120^\circ + \varepsilon$

" a = The correction for the distance between ε and δ

$$\text{Then } R_0 = \varepsilon_0 - \delta_{120} = x \pm a + 120^\circ$$

$$R' = \varepsilon_{120} - \delta_0 = x \pm a + 120^\circ$$

$$R' - R = 2a$$

$$\frac{R' - R}{2} = a$$

Second Method.

$$a = \frac{(\varepsilon_0 - \delta_{120}) + (\varepsilon_{120} - \delta_0)}{2} - (\varepsilon_0 - \delta_{120})$$

$$a = \frac{(\varepsilon_0 - \delta_{120}) + (\varepsilon_{120} - \delta_0)}{2} - (\varepsilon_0 - \delta_{120})$$

Book	Page	$(\varepsilon_0 - g_0)$	$(\varepsilon_{110} - g_0)$	$2a$	a	$(\varepsilon_0 - g_0)$	$(\varepsilon_{110} - g_0)$	$2a$	a
2	2	-346	-266	+80	+40	2-63	+34	+164	+130 +.65
	2	-232	-238	-06	-03	106	-184	-88	+66 +.33
	4	-296	-188	+108	+54	91	-922	-716	+206 +1.03
	4	-154	+226	-072	-36	96	-906	-868	+38 +.19
	6	-568	-510	+68	+29	103	-1050	-842	+208 +1.04
	6	-320	-278	+42	+21	112	-1254	-1170	+84 +.42
	8	-622	-532	+90	+45	140	-560	-360	+200 +1.00
	8	-364	-302	+62	+31	141	-1780	-1510	+210 +1.05
	10	-482	-354	+128	+64	143	-1738	-1626	+112 +.56
	11	-416	-276	+140	+70	152	-1850	-1722	+128 +.64
	11	-458	-272	+186	+93	162	-1510	-1620	-040 -0.20 (-1/4)
	12	-488	-246	+242	+121	163	-1735	-1605	+130 +.65
	12	-460	-244	+216	+108	164	-1763	-1720	+43 +.21
	14	-384	-220	+164	+82	165	-2015	-1970	+045 +.21
	22	-316	-154	+164	+82	166	-1525	-1430	+95 +.47
	23	-304	-184	+120	+60	167	-1495	-1425	+70 +.35
	24	-296	-174	+122	+61	169	-1486	-1302	+184 +.92
	25	-318	-218	+100	+50	174	-1446	-1324	+122 +.61
	26	-384	-242	+112	+56	186	-1615	-1515	+100 +.50
	33	-196	-180	+16	+08	2-7	-1575	-1515	00 +.00
	34	-176	-186	-10	-05	8	-1525	-1505	+20 +.10
	35	-248	-176	+72	+36	9	-1625	-1645	-20 -0.10
	37	-498	-522	-24	-12	10	-1620	-1635	-15 -0.07
	38	-482	-526	-44	-22	11	-1725	-1685	+40 +.20
44	47	+084	+188	+94	+47	12	-1790	-1760	+30 +.15
	52	+020	+178	+158	+79	18	-1620	-1630	-10 -0.05
	52	+107	+42	+135	+65	18	-1680	-1580	+100 +.50
	53	+035	+130	+75	+37	20	-1660	-1630	+30 +.15
	54	+09	+130	+121	+60	24	-1575	-1475	+100 +.50
	60	+34	+149	+115	+56	30	-1510	-1510	+70 +.65
	62	+17	+149	+132	+61	32	-1350	-1315	+35 +.18
					+0.42				+0.40

Error of $\Sigma + 180^\circ$ for $P=0$ continued.

Book Page. $\frac{E-G}{0}$ $\frac{E-G}{180}$ $\frac{E-G}{0}$ za a Book Page $\frac{E-G}{0}$ $\frac{E-G}{180}$ $\frac{E-G}{0}$ za a

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Error from g_0 to $g_{100} = P_0$ to P_{100}

Book Page. $g_0 - g_{10}$ $g_1 - g_0$ 2 a a Book Page. $g_0 - g_{10}$ $g_1 - g_0$ 2 a a

2	179	+13.25	+13.10	-15	-0.6
	182	+13.60	+11.15	-1.95	+97
	181	+14.95	14.00	+95	+97
	182	+16.85	15.15	+1.70	+85
	184	+13.85	13.25	-.60	+30
2	185	+13.90	13.85	+.35	+18
3	14	+16.10	15.40	-.70	-.35
	15	+16.85	15.20	-1.65	-.82
	16	+16.05	14.95	-1.10	-.55
	17	+15.75	15.15	-.60	-.30
	36	+14.55	+13.95	-1.60	-.80
	48	+14.65	+12.90	-1.95	+97
	50	+12.80	+12.30	-.50	-.25
	52	+13.90	+12.00	-1.39	-.69
	54	+13.40	+12.75	-.65	-.33
	56	+13.45	+12.35	-1.10	-.55
	78	+11.00	10.15	-.85	-.43
	80	+11.65	10.10	-1.55	-.77
	82	+10.90	+10.45	-.45	-.23
	84	+11.80	+10.70	-1.10	-.55
	86	+12.10	+10.25	-1.85	-.92
	88	+10.60	+9.75	-.85	-.43
	90	+11.10	+10.70	-.40	-.20
	92	+12.70	+10.80	-1.90	-.95
	94	+12.45	+11.80	-.55	-.28
	96	+12.45	+12.20	-.25	-.13

26/133.5
-0.51

New of ϵ .

37

Division into 2 equal parts from

 ϵ_0 to ϵ_{110} and from ϵ_{110} to ϵ_{360} $\epsilon R = 90^\circ = \text{constant}$

Book Page

	$\epsilon_0 - \epsilon_{20}$	$\epsilon_{20} - \epsilon_{40}$	$\epsilon_{40} - \epsilon_{60}$	$\epsilon_{60} - \epsilon_{80}$	$2a$	a
82	+1.04	-6.60	-7.64	-3.87		
83	+0.44	-6.97	-7.41	-3.70		
98	-2.62	-9.10	-6.48	-3.24		
106	-1.90	-8.90	-7.00	-3.50		
108	-2.04	-8.44	-6.40	-3.20		
110	-2.34	-9.00	-6.66	-3.33		
112	-1.98	-8.86	-6.88	-3.44		
114	-1.78	-8.12	-6.34	-3.17		
116	-1.84	-8.26	-6.42	-3.21		
						-3.39

	$\epsilon_{180} - \epsilon_{210}$	$\epsilon_{210} - \epsilon_{240}$	$\epsilon_{240} - \epsilon_{270}$	$\epsilon_{270} - \epsilon_{300}$	$2a$	a
82	-6.07	+1.33	+7.40	+3.70		
83	-6.70	+1.37	8.07	+4.03		
98	-10.02	-1.64	+8.38	+4.19		
106	-10.16	-1.56	+8.60	+4.30		
108	-10.14	-1.66	+8.48	+4.24		
110	-10.20	-1.26	+8.94	+4.47		
112	-10.24	-1.38	+8.86	+4.43		
114	-9.88	-1.48	+8.40	+4.20		
116	-9.80	-1.24	+8.56	+4.28		
						+4.20

2	22	-2.50	-10.38	-7.50	-3.70
	23	-3.12	-10.06	6.94	-3.47
	24	-2.32	-10.14	7.82	-3.91
	25	-1.90	-10.26	8.36	-4.18
	26	-2.56	-10.78	8.22	-4.11
	28	-2.56	-9.50	6.94	-3.47

2	22	-9.40	-2.46	+6.94	+3.87
	23	-9.14	-2.14	+7.00	+3.50
	24	-8.94	-2.54	6.40	+3.20
	25	-9.34	-2.38	6.96	+3.49
	26	-9.44	-2.24	7.20	+3.60
	28	-9.34	-3.42	5.92	+2.96

In the above the telescope was reversed from S to N.

83	-2.61	-10.19	-7.58	-3.79
34	-2.06	-10.10	-8.04	-4.02
35	-2.04	-9.58	-7.54	-3.77
37	-1.26	-9.34	-8.08	-4.04
38	-1.24	-9.72	-8.48	-4.24
60	-1.88	-8.89	-7.01	-3.51
63	-4.52	-11.96	-7.44	-3.72
66	-3.26	-9.92	-6.66	-3.33
91	-11.40	-17.12	-8.32	-3.86
96	-10.22	-18.46	-8.24	-4.12

83	-9.04	-1.66	7.38	+3.69
34	-8.96	-1.80	+7.16	+3.58
35	-8.36	-1.56	+6.80	+3.40
37	-9.10	-2.06	+7.04	+3.57
38	-9.02	-1.96	+7.06	+3.53
60	-7.93	-1.01	+6.92	+3.46
63	-10.62	-3.92	+6.70	+3.35
66	-8.88	-1.58	+7.30	+3.65
92	-17.16	-10.51	+6.32	+3.16
98	-10.58	-10.80	6.86	+3.43

Book	Page	$\Sigma - \Sigma$	$\Sigma - \Sigma$	$\Sigma - \Sigma$	$\Sigma - \Sigma$
2	104	-13.46	-21.36	-8.90	-39.5
2	112	-13.30	-21.40	-8.10	-40.5
3	30	-7.70	-16.40	-8.70	-43.5
	32	-7.70	-15.85	-8.15	-40.7
	34	-7.70	-15.85	-8.15	-40.7
	38	+3.50	-5.45	-8.95	-44.7
	40	+3.75	-6.00	-9.75	-45.7
	42	+4.20	-4.85	-9.05	-45.2
	44	+4.10	-5.75	-9.85	-44.7
	48	-7.05	-15.05	-8.00	-44.0
	58	+13.80	+3.95	-9.85	-44.2
	60	+12.90	+2.70	-10.20	-5.10
	62	+12.05	+2.65	-9.40	-4.70
	64	+13.15	+4.25	-8.90	-4.45
	66	+13.30	+3.85	-9.45	-4.72
	68	+10.85	+2.60	-7.95	-3.97
	70	+10.65	+1.45	-9.20	-4.60
	72	+10.55	+1.80	-8.75	-4.37
	74	+10.15	+1.60	-8.55	-4.27
	76	+10.10	+1.70	-8.40	-4.20

Book	Page	$\Sigma - \Sigma$	$\Sigma - \Sigma$	$\Sigma - \Sigma$	$\Sigma - \Sigma$
2	104	-19.62	-12.18	+6.84	+34.2
2	113	-20.05	-13.40	+6.65	+33.2
3	30	-14.35	-8.25	+6.10	+30.5
	30	-14.85	-7.75	+7.10	+35.3
	34	-14.00	-8.30	-5.70	+2.85
	38	-3.75	+2.25	+6.00	+3.00
	40	-3.45	+3.15	+6.60	+3.30
	42	-4.00	+3.20	+7.20	+3.60
	45	-3.70	+2.70	+6.40	+3.20
	48	-13.50	-7.30	+6.20	+3.10
	58	+6.20	+13.40	+7.20	+3.60
	60	+4.05	+11.30	+7.25	+3.62
	62	+4.85	+11.70	+6.85	+3.42
	64	+6.60	+12.95	+6.35	+3.18
	66	+6.30	+13.00	+6.70	+3.25
	68	+4.95	+10.25	+5.30	+2.85
	70	+3.45	+10.00	+6.55	+3.28
	72	+3.35	+10.00	+6.65	+3.32
	74	+3.10	+11.50	+8.40	+4.20
	76	+3.25	+10.25	+7.20	+3.60

Recapitulation
In Groups of 10 observations.

Group		
1	-3.80	+4.07
2	-3.89	+3.44
3	-4.15	+3.30
4	-4.44	+3.39
5	-4.07	+3.55
	3.55	
	-3.52	
	-0.03	

new at - G.
 $G_{\text{No}} = 90^\circ = \text{constant}$

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Book	Page	$h_0 - h_{90}$	$h - h_{20}$	$2a$	a	Book	Page	$h - h_{20}$	$h - h_{30}$	$2a$	a
8	18	+0.70	+5.20	+2.60	+2.25	8	18	+8.50	-1.30	-9.80	-4.90
	18	+1.20	+6.10	+4.90	+2.45	8	18	+7.10	-1.10	-8.90	-4.45
	20	+1.40	+6.10	+4.70	+2.35	20		+8.00	-0.90	-8.90	-4.45
	22	+1.20	+6.10	+4.90	+2.45	22		+7.10	-1.00	-8.10	-4.05
	24	+1.10	+5.55	+4.44	+2.22	24		+7.05	-2.40	-9.45	-4.72
	24	+0.05	+5.25	+5.20	+2.60	24		+6.35	-2.15	-8.50	-4.25
	30	+0.30	+4.55	+4.25	+2.13	30		+7.00	-3.05	-10.05	-5.02
	30	+0.10	+5.05	+4.95	+2.47	30		+6.80	-3.05	+9.85	-4.92
	32	+0.45	+5.05	+4.60	+2.30	32		+6.80	-2.50	-9.40	-4.70
	32	-0.05	+4.90	+4.95	+2.47	32		+6.85	-2.55	-9.50	-4.75
	34	+2.03	+6.25	+4.12	+2.11	34		+8.10	-1.10	-9.20	-4.60
	34	+1.60	+5.60	+4.00	+2.00	34		+8.05	-1.50	-9.55	-4.77
	38	-0.40	+4.50	+4.90	+2.45	38		+8.95	-3.20	-9.20	-4.60
	41	+1.00	+4.90	+5.90	+2.95	41		+6.30	-3.05	-9.35	-4.67
	42	-0.85	+5.50	+6.35	+3.17	43		+7.05	-2.30	-9.35	-4.67
	44	+0.10	+5.70	+5.60	+2.80	44		+7.80	-1.95	-9.75	-4.87
	47	+0.80	+5.60	+4.85	+2.42	47		+7.70	-0.65	-8.35	-4.18
	48	+0.98	+5.05	+4.10	+2.05	48		+7.05	-2.90	-9.95	-4.96
	50	+24.05	+30.10	+6.05	+3.02	50		+3.25	+2.15	-1.05	-4.70
	52	+24.05	+29.85	+5.50	+2.75	52		-29.00	-38.10	-9.20	-4.60
	54	+24.65	+29.50	+4.85	+2.42	54		-3.40	-38.00	-9.40	-4.70
	56	+25.00	+30.45	+5.45	+2.72	56		-28.10	-37.70	-9.60	-4.80
	58	+1.05	+5.55	+4.50	+2.25	58		+7.50	-1.85	-9.35	-4.67
	60	+0.25	+5.45	+5.20	+2.60	60		+7.75	-1.80	-9.65	-4.82
	62	+0.35	+6.15	+5.80	+2.90	62		+7.25	-1.80	-9.15	-4.57
	64	+0.80	+6.65	+5.85	+2.92	64		+7.75	-1.55	-9.20	-4.65
	66	+1.05	+6.50	+5.45	+2.72	66		+7.95	-1.60	-9.55	-4.77
	68	+1.35	+5.80	+4.45	+2.23	68		+6.90	-1.95	-8.85	-4.43
	70	-0.30	+4.55	+4.85	+2.13	70		+7.10	-2.00	-9.10	-4.57
	72	+0.35	+5.80	5.95	+2.72	72		+6.70	-2.80	-9.50	-4.75

New at 3.

Book	Page	h-g	g-g	2a	a	h-g	g-g	2a	a
3	74	-0.10 ²⁰	+5.45 ²⁰	+5.55 ^{18.5}	+2.77 ¹⁴	74	+7.10 ¹⁴	-2.30 ²⁷⁰	-9.55 ³⁶⁰
	76	+0.00	+6.05	+6.05	+2.02	76	+7.60	-2.10	-9.70
	78	-19.15 ²⁰	-23.80 ²⁰	+4.60 ^{18.5}	+2.30 ¹⁴	78	+24.95 ¹⁴	+16.60 ²⁷⁰	-8.85 ³⁶⁰
	80	-41.90	-35.75	+5.65	+2.82	80	+35.70	+43.80	-8.80
	82	-41.00	-35.70	+5.30	+2.65	82	-34.05	-43.15	-9.00
	84	-40.75	-35.05	+5.70	+2.85	84	-33.60	-43.00	-9.40
	86	-40.75	-35.45	+5.50	+2.75	86	-33.80	-44.00	-10.20
	88	-40.82	-36.30	+4.52	+2.26	88	-34.85	-44.25	-9.40
	90	-41.56	-36.00	+5.56	+2.28	90	-34.05	-43.40	-9.35
	92	-39.65	-35.05	+4.60	+2.30	92	-33.85	-43.00	-9.20
	94	-39.90	-35.00	+4.80	+2.45	94	-33.00	-42.65	-9.65
	96	-39.85	-34.40	+5.45	+2.72	96	-32.55	-42.70	-10.15

In Group 2 of 10

I	+2.37	-4.62
II	+2.57	-4.66
III	+2.55	-4.67
IV	+2.60	-4.69
	+2.53	-4.66
		+2.13
		2.13
		-1.06
		-2.6
		1.32
		2.66

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