Declination ,D, East of North , 17 degrees + tabulated values in minutes of arc. June 1957.

U.T. Date.		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	Q	12.9	12.8	12.5	12.5	12.4	12.6	12.7	12.5	12.8	12.4	12.3	12.2	11.7	12.0	13.1	13.4	14.1	14.7	14.6	13.9	13.2	12.9	12.9	12.9	310.0	12.92
02	Q	12.7	12.6	12.5	10.8	09.8	11.2	12.1	12.2	12.0	12.1	12.1	11.5	11.3	11.3	12.3	13.0	13.4	13.8	13.5	13.0	12.3	12.1	12.1	12.1	291.6	12.15
03		12.2	12.1	12.1	12.0	10.8	07.0	08.4	09.4	12.1	09.8	10.3	13.8	13.9	12.4	12.2	13.0	13.6	13.9	13.2	17.7	13.8	13.3	13.4	13.5	308.9	12.87
04	D	11.8	14.2	10.1	05.7	07.6	09.6	08.4	06.6	12.3	09.3	11.2	12.9	13.3	13.9	14.0	13.8	17.6	16.7	13.7	13.3	16.2	13.9	13.9	09.2	301.4	12.56
05		13.6	08.7	08.9	10.1	11.3	11.1	12.2	13.2	14.2	13.3	12.9	13.0	13.0	13.0	13.0	13.2	14.3	16.6	16.7	13.6	13.3	13.9	14.3	07.3	311.3	12.98
06	D	10.2	10.1	04.8	02.9	03.6	05.6	04.7	04.7	08.3	14.8	12.2	13.0	14.8	13.8	13.2	13.3	13.8	13.6	13.6	14.8	11.9	12.6	14.7	13.9	271.1	11.30
07		13.6	10.0	10.2	12.2	12.4	12.8	13.0	12.7	12.9	12.9	13.0	13.6	12.9	12.3	12.6	13.4	14.3	14.9	14.6	13.9	13.3	13.3	12.0	13.6	310.8	12.95
08		13.0	07.6	09.3	10.2	09.4	10.7	11.2	12.7	13.0	12.1	12.4	12.8	13.0	13.2	13.7	13.9	14.7	13.3	13.1	14.8	14.2	13.8	13.3	13.0	302.8	12.62
09	Q	12.9	13.0	12.4	11.8	11.3	11.3	12.4	12.4	12.8	13.0	12.9	12.4	12.1	11.6	12.0	12.9	13.6	--	--	--	--	--	--	--	210.8	
10	Q	12.9	12.7	12.6	12.5	12.5	12.5	12.5	12.6	12.7	12.4	12.3	12.2	11.8	11.3	11.6	12.8	13.9	14.6	14.5	13.9	13.1	13.2	13.4	13.7	308.2	12.84
11	Q	13.7	13.1	12.2	12.1	12.1	12.2	12.4	12.5	12.4	12.8	12.4	12.1	12.0	11.3	11.3	12.6	13.9	14.7	14.3	13.5	12.9	12.8	12.4	12.9	304.6	12.69
12		12.9	11.6	12.4	12.2	12.1	11.6	11.8	12.2	13.3	12.6	12.1	11.8	11.2	11.7	11.3	12.9	13.9	14.5	14.5	14.0	13.2	13.0	12.7	12.6	302.1	12.59
13		13.0	13.2	12.9	12.4	12.4	12.4	12.2	12.3	12.4	12.3	12.8	13.9	12.8	12.2	12.1	12.6	13.9	14.7	14.3	13.9	13.6	13.9	13.1	13.6	312.9	13.04
14		13.0	12.1	12.3	10.3	11.3	11.0	10.7	11.1	12.0	12.1	12.2	12.2	12.3	12.8	12.3	12.8	13.4	13.8	13.4	13.0	12.7	13.0	13.1	13.2	296.1	12.34
15		12.4	12.9	12.2	11.3	10.7	05.4	08.2	11.2	12.3	12.9	11.4	12.6	12.7	12.4	13.0	16.7	15.8	15.7	14.7	13.3	14.6	13.9	13.9	12.3	304.4	12.68
16		13.0	13.0	12.2	12.1	11.9	11.5	12.1	11.6	11.3	11.3	11.4	12.1	12.1	12.1	12.3	13.0	13.8	13.9	13.8	13.0	12.4	12.7	12.9	12.8	298.3	12.42
17		12.4	11.9	10.0	09.8	11.2	08.7	06.3	12.2	12.2	12.7	12.3	12.7	13.8	12.3	12.1	13.4	14.2	14.6	14.6	13.8	13.0	13.1	14.1	14.4	293.9	12.25
18		13.6	11.1	06.4	09.2	09.5	03.8	07.4	09.3	13.1	14.2	13.9	13.1	13.2	12.7	12.8	13.1	13.5	14.2	14.7	14.5	14.9	15.8	14.0	10.3	288.3	12.01
19		09.4	11.9	13.9	07.8	10.6	09.7	08.8	07.3	10.3	13.0	13.2	14.8	14.7	14.2	15.8	16.3	15.2	16.0	16.7	15.7	14.7	14.9	14.8	15.5	315.2	13.13
20		13.3	11.8	10.1	11.3	12.1	06.7	10.2	11.2	12.5	12.3	12.9	13.0	12.4	12.1	12.2	13.0	13.2	13.7	13.9	14.6	14.9	15.0	13.7	13.6	299.7	12.49
21		12.4	10.2	10.1	09.4	10.1	06.3	01.0	03.8	07.6	12.7	13.1	13.1	13.0	12.9	13.0	13.2	13.7	14.0	14.5	14.8	15.9	14.6	14.7	13.8	277.9	11.58
22		13.2	12.3	11.8	11.5	12.1	11.6	12.2	12.5	12.6	12.4	12.1	13.4	14.0	13.8	13.0	13.8	14.7	14.8	14.8	14.4	13.7	13.7	13.7	13.5	315.6	13.15
23		13.0	13.3	13.0	12.9	12.6	12.6	12.6	12.6	12.6	12.5	12.1	12.0	11.8	11.7	12.1	13.0	13.9	13.6	13.0	13.0	13.9	14.7	13.6	13.2	309.3	12.89
24		13.6	10.1	11.9	08.6	07.5	05.9	05.5	06.6	11.3	12.9	13.1	13.2	13.0	12.8	13.0	13.1	13.8	13.9	12.6	13.2	12.9	12.9	13.5	13.9	280.0	11.67
25	D	13.0	09.3	08.1	06.6	07.2	07.7	07.5	11.3	13.1	13.0	13.0	11.9	13.0	13.7	13.0	13.1	13.0	13.6	14.8	14.1	17.2	16.9	15.0	13.5	292.6	12.19
26	D	10.2	00.0	03.8	03.6	00.9	54.6*	59.2*	03.4	57.5*	09.0	22.0	23.9	20.5	18.5	19.3	23.1	19.4	18.4	17.4	17.0	16.7	17.6	16.8	17.6	290.4	12.10
27		14.9	14.8	13.9	13.0	13.6	13.5	13.6	13.3	10.2	10.0	12.8	13.7	13.8	13.9	14.7	14.0	14.5	14.7	15.1	14.3	13.4	13.0	13.1	13.5	325.3	13.55
28		13.8	13.8	13.1	13.0	12.8	12.0	12.1	07.6	05.6	07.5	12.0	13.0	13.8	13.0	13.0	13.3	14.0	14.1	13.8	13.8	13.3	13.0	13.0	13.4	298.0	12.42
29		13.8	13.4	13.2	12.8	12.7	12.6	12.4	12.4	12.7	12.7	12.9	13.0	12.9	12.9	12.4	12.2	13.0	13.9	14.9	15.0	14.6	13.1	13.0	13.2	315.7	13.15
30	D	13.0	13.2	13.0	10.3	11.3	13.8	57.2*	07.2	11.9	14.6	13.0	28.3	27.3	15.4	16.3	17.6	20.3	19.4	22.1	18.2	26.3	26.4	23.2	22.4	402.3	16.76
Sum.		383.4	346.8	332.1	311.0	313.8	286.0	281.0	312.6	340.0	363.8	362.3	411.4	408.3	389.4	394.9	419.9	439.0	434.3	427.4	421.9	420.3	419.0	408.3	388.4	9049.7	
Mean.		12.78	11.56	11.07	10.37	10.33	09.87	09.37	10.42	11.33	12.19	12.74	13.71	13.61	12.98	13.16	14.00	14.63	14.98	15.08	14.33	14.49	14.43	14.09	13.39		12.69

* 16 degrees + tabulated value.

Horizontal component, H , 25,000 gammas + tabulated values. June 1957

G.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01 Q	607	608	607	606	604	605	604	604	606	607	610	612	610	600	596	592	591	596	603	610	613	614	611	611	14527	605.3
02 Q	614	614	611	608	602	599	605	606	606	610	607	610	608	603	598	601	607	612	616	618	621	621	620	622	14639	610.0
03	620	620	625	616	614	617	611	606	625	615	619	614	625	607	597	587	579	584	571	564	582	586	562	586	14428	601.2
04 D	576	588	591	572	567	586	582	585	598	604	585	598	594	587	581	571	563	572	583	572	580	568	574	557	13944	581.0
05	570	568	563	572	590	592	599	597	592	599	602	599	599	591	585	585	578	566	572	580	580	573	571	570	13993	583.0
06 D	563	561	569	545	535	545	568	582	598	589	601	589	585	595	586	576	577	572	580	573	585	588	596	603	13874	578.1
07	592	574	566	591	594	594	596	599	600	600	601	601	597	590	583	577	578	581	586	595	594	591	589	600	14167	590.3
08	599	603	592	581	582	590	594	602	603	607	603	602	600	597	592	585	586	591	597	602	601	602	601	602	14314	596.4
09 Q	602	602	603	607	611	607	607	607	610	609	610	609	605	597	589	588	589	-	-	-	-	-	-	-	10838	
10 Q	610	610	609	609	608	610	610	611	612	615	616	616	612	606	596	592	593	598	607	607	610	610	607	603	14577	607.4
11 Q	603	605	607	609	610	610	611	615	616	619	619	619	615	608	601	596	597	603	610	614	615	611	613	612	14637	609.9
12	611	607	609	606	610	611	610	610	617	616	615	617	615	609	601	585	591	599	605	606	606	603	607	606	14571	607.1
13	600	603	607	611	613	615	617	615	616	614	615	621	619	608	597	587	588	594	601	606	603	597	595	598	14538	605.8
14	595	599	604	604	603	617	614	611	608	606	611	615	612	611	606	600	599	602	607	609	605	606	606	606	14556	606.5
15	599	591	588	596	615	603	598	604	606	610	615	609	606	604	598	582	597	592	594	595	593	593	590	589	14379	599.1
16	597	599	602	605	610	612	613	613	614	617	620	618	613	607	600	598	599	604	609	611	612	609	611	611	14604	608.5
17	615	618	615	608	610	619	600	603	609	612	612	615	612	603	594	591	594	602	606	607	607	600	588	594	14532	605.5
18	587	594	580	577	609	579	581	594	597	598	603	606	603	600	596	594	593	594	594	586	594	590	582	576	14209	592.0
19	586	570	582	574	587	596	610	594	597	607	630	607	596	583	582	589	580	578	583	591	591	587	585	582	14165	590.2
20	580	585	580	587	603	583	603	601	598	597	598	602	604	606	600	599	604	601	597	593	570	588	597	596	14275	594.8
21	593	599	598	589	596	607	601	595	601	608	606	601	601	600	596	592	586	582	581	571	574	576	586	591	14230	592.9
22	584	585	594	602	604	607	609	609	614	625	608	610	604	602	588	581	582	586	590	596	599	599	599	590	14367	598.6
23	588	597	602	603	604	603	603	605	604	608	608	609	608	603	599	595	595	599	602	602	595	591	597	603	14423	601.0
24	604	570	589	568	583	603	595	595	610	606	608	610	606	605	600	592	590	592	596	600	600	599	591	591	14283	595.1
25 D	590	591	560	564	570	578	576	597	598	604	607	625	614	599	594	592	589	595	581	583	571	556	569	561	14064	586.0
26 D	545	531	530	526	535	525	531	515	553	571	619	582	546	553	566	568	558	575	578	576	579	574	571	576	13381	557.5
27	577	575	580	580	582	580	579	590	600	588	590	587	595	596	588	578	573	577	587	598	601	598	600	596	14091	587.1
28	600	593	600	604	603	604	600	609	600	599	614	594	581	572	572	578	580	586	589	591	591	590	593	594	14237	593.2
29	597	598	601	603	603	603	603	603	603	606	603	603	599	599	597	592	589	593	602	604	607	609	615	612	14442	601.8
30 D	613	615	612	599	595	586	617	603	617	639	639	597	610	566	553	519	512	536	523	489	498	502	454	451	13545	564.4
Sum.	17819	17771	17754	17724	17852	17831	17947	17978	18126	18205	18504	18195	18094	17907	17751	17572	17557	17067	17150	17150	17177	17151	17075	17087	424244	
Mean.	594.0	593.7	591.8	590.8	595.1	596.4	598.2	599.3	604.2	606.8	610.1	606.5	603.1	596.9	591.0	585.7	584.6	585.5	591.4	591.4	592.3	590.7	588.8	589.2		595.0

Vertical component, Z , - (56000 +) gammas

June 1957.

Date.		U.T. 0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	Q	1027	1026	1025	1024	1023	1025	1022	1025	1023	1024	1026	1026	1025	1024	1023	1020	1021	1025	1028	1041	1041	1040	1026	1025	24841	1035.0
02	Q	1026	1026	1024	1024	1021	1029	1022	1022	1022	1022	1020	1022	1024	1025	1022	1022	1024	1025	1025	1025	1025	1024	1022	1022	24795	1033.1
03		1020	1029	1029	1027	1027	1020	1014	1018	1015	1011	1021	1012	1022	1024	1024	1025	1020	1026	1022	1027	1043	1048	1041	1020	24619	1025.8
04	D	1047	1052	1054	1056	1029	1020	1029	1028	1026	1025	1011	1014	1025	1052	1056	1051	1026	1040	1045	1059	1045	1059	1044	1059	24808	1033.7
05		1054	1045	1041	1045	1045	1054	1054	1052	1028	1030	1054	1058	1040	1039	1059	1058	1051	1022	1055	1041	1042	1041	1044	1044	24912	1038.0
06	D	1057	1042	1051	1000	1008	1011	1009	996	1019	1010	1030	1055	1051	1040	1040	1040	1041	1041	1041	1042	1048	1045	1045	1047	24719	1030.0
07		1047	1045	1050	1053	1046	1041	1058	1058	1058	1058	1058	1057	1057	1059	1056	1056	1056	1059	1041	1041	1041	1059	1056	1045	24975	1040.6
08		1042	1056	1052	1051	1050	1024	1052	1052	1053	1055	1052	1052	1054	1056	1055	1055	1055	1056	1057	1058	1058	1058	1059	1058	24850	1035.6
09	Q	1058	1057	1057	1056	1050	1028	1051	1051	1050	1050	1051	1052	1055	1055	1052	1051	1052	—	—	—	—	—	—	—	17554	
10	Q	1054	1053	1052	1052	1051	1050	1050	1050	1050	1051	1051	1051	1052	1053	1052	1028	1026	1051	1053	1054	1053	1052	1051	1050	24752	1031.3
11	Q	1050	1051	1053	1053	1051	1050	1028	1028	1029	1029	1028	1028	1029	1050	1029	1027	1027	1028	1051	1053	1052	1049	1029	1050	24712	1029.7
12		1027	1026	1028	1027	1029	1027	1027	1025	1025	1025	1027	1028	1028	1028	1027	1024	1026	1051	1052	1051	1055	1029	1050	1050	24670	1027.9
13		1029	1030	1032	1052	1051	1028	1028	1026	1025	1025	1024	1024	1023	1026	1027	1027	1027	1029	1052	1054	1052	1029	1051	1054	24685	1028.5
14		1053	1056	1055	1053	1029	1028	1022	1025	1025	1027	1028	1028	1027	1029	1029	1027	1024	1026	1029	1050	1028	1028	1028	1028	24680	1026.3
15		1026	1026	1027	1051	1024	1010	1017	1024	1025	1025	1024	1024	1028	1028	1028	1025	1025	1025	1029	1029	1050	1051	1052	1055	24616	1025.7
16		1055	1054	1053	1052	1051	1028	1028	1028	1029	1029	1028	1026	1026	1026	1025	1025	1025	1025	1027	1028	1028	1025	1026	1025	24672	1028.0
17		1027	1028	1026	1024	1023	1008	1008	1022	1025	1026	1025	1025	1023	1024	1025	1024	1026	1050	1051	1053	1050	1027	1022	1029	24591	1024.6
18		1054	1053	1021	1022	1008	1009	1010	1010	1016	1026	1052	1053	1051	1053	1052	1050	1050	1029	1029	1027	1051	1052	1053	1057	24628	1026.2
19		1058	1059	1056	1050	1059	1053	1025	1017	1025	1017	1008	1008	1017	1024	1027	1055	1054	1053	1055	1042	1042	1040	1059	1041	24724	1030.2
20		1043	1046	1041	1040	1051	1011	1052	1029	1029	1028	1029	1050	1052	1055	1053	1050	1050	1029	1027	1024	1018	1050	1057	1056	24750	1031.3
21		1054	1055	1029	1028	1050	1024	1000	994	1004	1009	1020	1026	1050	1055	1052	1050	1028	1025	1026	1025	1050	1056	1040	1050	24606	1025.2
22		1057	1056	1058	1057	1055	1053	1051	1029	1028	1019	1012	1018	1019	1027	1029	1028	1028	1026	1029	1051	1052	1051	1051	1028	24685	1029.0
23		1029	1053	1053	1051	1050	1028	1028	1028	1051	1028	1029	1050	1050	1050	1028	1026	1026	1028	1028	1028	1025	1025	1028	1051	24689	1028.7
24		1051	1024	1026	1026	1026	1016	1011	1008	1015	1020	1027	1050	1029	1050	1027	1026	1024	1025	1027	1027	1027	1026	1025	1025	24572	1023.8
25	D	1026	1019	1009	1010	1011	1015	1010	1026	1050	1053	1053	1056	1050	1024	1027	1027	1025	1026	1018	1021	1021	1027	1054	1055	24571	1023.8
26	D	1025	1014	1007	1000	972	969	968	958	984	979	949	924	967	1016	1026	1028	1055	1045	1051	1047	1048	1045	1047	1048	24112	1004.7
27		1044	1041	1041	1056	1055	1053	1052	1050	1019	1017	1026	1028	1053	1053	1050	1027	1027	1050	1054	1057	1059	1055	1054	1051	24771	1032.1
28		1054	1050	1054	1056	1055	1053	1025	1007	990	1002	1008	1015	1022	1027	1050	1052	1052	1052	1052	1052	1052	1052	1051	1051	24612	1025.5
29		1051	1051	1051	1051	1050	1029	1028	1027	1027	1027	1026	1025	1025	1027	1028	1027	1023	1028	1050	1051	1052	1051	1051	1050	24688	1028.7
30	D	1028	1028	1050	1025	1008	968	986	1015	1016	1011	996	955	966	1004	1010	1006	1016	1056	1052	1051	1055	1050	1150	1105	24556	1023.2
Sum.		31043	31013	30965	30892	30798	30628	30625	30604	30653	30670	30665	30618	30734	30881	30890	30854	30854	29891	29934	29977	30016	30051	30086	30082	735402	
Mean. 1000+		34.8	33.8	32.2	29.7	26.6	20.9	20.8	20.1	21.8	22.3	22.1	20.6	24.5	29.3	29.7	28.5	28.5	30.7	32.2	33.7	35.0	35.6	37.4	37.3		1028.6

Declination , D , East of North , 17 degrees + tabulated values in minutes of arc. July 1957.

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01 D	22.0	12.0	10.1	13.8	55.7*	58.9*	07.1	00.4	11.5	16.9	18.1	17.4	17.1	16.7	16.6	16.8	17.0	16.7	15.3	15.7	15.0	14.5	14.6	14.2	314.1	15.09
02 D	14.5	14.4	14.3	14.2	14.4	14.4	14.6	14.7	14.8	14.1	14.9	15.9	27.4	25.5	14.8	15.8	17.4	18.4	18.0	18.5	15.9	14.4	14.4	14.0	389.7	16.24
03 D	13.9	13.2	02.1	10.4	13.0	13.5	13.0	13.0	13.0	13.9	14.9	16.8	17.2	13.5	14.4	14.4	14.9	15.8	15.8	15.4	14.9	14.3	12.7	12.3	326.3	13.60
04	14.0	13.9	13.9	13.9	13.9	13.8	13.9	13.6	13.5	13.5	13.6	13.6	13.1	12.4	12.5	13.2	14.0	14.7	14.4	13.9	14.6	14.7	17.2	12.0	331.8	13.83
05 D	12.9	14.4	13.9	10.6	10.6	04.7	10.2	12.2	08.9	12.2	17.2	20.9	16.4	15.8	15.8	16.0	16.1	15.7	15.8	15.5	15.1	12.1	14.7	17.6	335.1	13.96
06	16.5	15.0	13.9	13.8	10.2	10.9	10.6	13.5	13.1	14.7	13.9	14.1	14.1	14.5	14.0	14.8	15.5	15.6	14.8	14.8	14.8	15.0	13.9	10.9	352.7	13.86
07	14.0	13.9	13.3	12.1	11.2	10.3	12.1	13.0	13.4	12.6	12.9	12.9	12.6	12.2	12.8	13.6	14.2	14.7	14.7	14.8	13.9	13.6	13.3	13.3	315.4	13.14
08	12.3	12.9	12.0	10.3	11.2	11.7	11.2	12.7	11.3	12.2	12.5	13.1	12.8	12.9	12.9	13.6	14.5	14.8	14.7	14.4	14.5	14.1	13.3	13.3	309.2	12.88
09	12.1	11.7	13.0	13.0	12.8	12.5	12.5	12.8	13.0	13.0	13.0	13.0	12.7	12.1	12.5	13.2	14.4	14.7	14.4	13.8	13.6	13.3	12.2	12.3	311.6	12.98
10 Q	12.9	12.1	10.6	11.5	12.7	12.9	12.9	12.1	12.5	12.4	12.5	12.6	12.5	12.1	12.2	13.0	14.0	14.6	14.1	13.7	13.0	12.8	12.6	12.7	305.0	12.71
11 Q	12.7	12.2	11.9	12.0	12.2	12.3	12.3	12.5	12.8	12.8	12.4	12.3	11.9	12.1	12.1	12.7	13.2	13.9	13.9	13.5	12.3	12.2	12.7	12.6	301.5	12.56
12	12.1	11.9	11.2	09.8	11.8	12.3	11.2	11.3	13.6	12.9	12.8	13.6	13.1	12.4	12.8	13.2	13.8	14.0	14.2	14.8	13.6	13.0	13.0	13.2	305.6	12.75
13 Q	13.0	12.9	12.7	12.3	12.2	12.3	12.3	12.5	12.8	12.7	12.5	12.5	12.3	11.9	11.7	12.9	13.8	14.1	13.9	13.2	12.4	12.1	12.1	12.2	303.3	12.64
14	12.2	12.2	12.1	12.1	12.1	12.1	12.0	12.1	11.8	12.0	12.1	12.1	12.1	11.3	12.0	13.0	13.9	14.7	14.7	13.9	13.6	14.3	13.9	13.3	307.6	12.82
15 Q	13.9	13.2	12.2	11.8	12.2	12.1	12.1	12.1	11.9	12.2	12.2	12.1	12.1	12.0	12.1	12.9	13.6	14.0	14.0	13.6	13.0	12.8	12.8	12.9	305.8	12.66
16	12.7	12.8	12.3	12.3	12.1	11.8	11.5	10.3	06.5	08.7	09.2	12.2	11.3	12.1	12.9	14.1	16.1	16.7	16.7	16.4	16.8	16.4	16.0	17.1	314.8	13.12
17	16.5	14.4	12.9	12.1	11.6	11.4	12.0	12.1	12.1	12.1	11.9	12.4	12.6	12.2	12.5	13.3	13.8	14.1	14.1	13.9	12.8	13.0	12.7	12.7	309.2	12.88
18	13.2	13.3	12.9	12.3	12.5	12.3	11.2	10.2	11.0	11.7	12.4	13.0	12.4	13.0	12.5	13.1	14.1	15.9	15.9	15.9	16.6	17.5	15.9	15.0	325.8	13.49
19 D	13.1	13.8	09.0	10.1	10.4	12.0	10.2	12.0	10.3	09.3	12.4	12.5	12.1	11.6	11.7	12.4	16.7	16.6	17.1	18.5	18.5	17.1	15.9	14.9	318.2	13.26
20	14.8	13.2	11.2	10.2	11.7	09.4	09.1	11.3	12.7	13.8	13.9	13.8	13.1	12.6	13.0	13.6	14.5	14.6	15.9	15.8	13.9	14.1	14.0	11.2	311.4	12.98
21	13.1	13.0	12.9	12.9	12.5	12.3	12.2	12.3	12.4	12.4	12.4	12.3	12.1	11.8	12.1	12.7	13.7	14.6	14.4	13.6	13.0	12.9	12.4	13.0	307.0	12.79
22	12.6	12.8	12.5	12.1	11.6	11.6	08.7	06.3	09.2	11.3	11.2	14.5	13.7	10.9	12.1	12.9	15.3	15.8	17.0	19.4	16.5	19.2	16.9	14.8	318.9	13.29
23	13.6	11.2	11.3	11.2	10.1	08.6	12.1	12.2	12.8	13.0	13.0	13.0	12.7	12.2	12.2	13.2	14.8	15.8	15.5	14.4	13.2	13.0	13.0	13.0	305.3	12.72
24	13.5	13.7	13.0	12.7	12.3	12.3	12.2	12.3	12.4	12.9	11.4	12.1	14.2	12.1	12.2	13.0	14.7	15.8	16.1	14.6	13.7	13.9	14.6	13.9	318.6	13.28
25	11.3	12.9	12.8	12.2	11.2	10.1	09.5	10.4	11.2	12.1	12.1	12.1	11.8	11.6	12.0	12.9	13.9	14.7	14.8	14.0	13.0	12.5	12.6	12.6	294.3	12.26
26 Q	13.4	12.5	12.5	12.3	12.2	12.0	11.3	11.6	11.6	11.4	11.4	11.6	11.4	11.3	12.2	13.0	14.0	14.7	14.2	13.7	13.0	12.6	12.6	12.6	298.1	12.42
27	12.5	12.3	12.1	11.9	11.8	11.7	11.6	11.4	11.5	11.8	11.7	11.4	11.2	11.1	11.4	12.4	13.6	14.3	14.2	13.4	12.7	12.3	12.2	12.4	292.9	12.20
28	12.3	12.1	11.5	11.4	11.2	10.9	11.1	11.2	11.4	11.5	11.5	11.3	11.1	10.9	11.1	11.6	12.7	13.2	13.5	13.1	12.8	12.2	12.2	12.3	284.1	11.84
29	12.2	12.2	12.2	10.2	07.2	10.2	11.2	10.3	11.1	11.2	13.6	11.4	12.2	12.0	12.9	13.1	13.8	14.3	14.5	14.0	14.3	14.3	14.0	12.8	295.2	12.30
30	12.3	12.3	12.4	12.2	10.5	09.6	10.4	12.2	12.2	12.5	12.1	12.1	11.5	11.3	11.4	12.3	13.3	13.8	14.2	13.9	13.1	12.9	13.0	10.8	292.3	12.18
31	12.2	12.3	12.2	12.2	12.0	12.2	12.2	12.2	12.1	12.2	12.1	12.3	11.5	11.4	11.4	12.3	13.1	13.9	14.2	13.7	13.0	13.0	11.4	12.9	298.0	12.42
Sum.	416.5	400.7	370.9	369.9	347.1	345.1	354.5	356.6	368.4	386.0	397.8	410.9	412.3	395.5	392.8	415.0	448.4	465.2	465.0	457.6	436.9	430.1	422.8	410.8	9674.8	
Mean.	13.44	12.93	11.96	11.93	11.20	11.07	11.44	11.50	11.88	12.45	12.83	13.25	13.30	12.76	12.67	13.39	14.46	15.01	15.00	14.76	14.09	13.87	13.64	13.25		13.00

* 16 degrees + tabulated value.

Horizontal component , H , 25,000 gammas + tabulated values. July 1957.

Date.	U.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	D	489	413	429	460	479	445	475	482	495	535	537	542	546	548	550	548	547	546	545	545	544	546	551	555	12330	513.8
02	D	562	563	565	568	569	569	572	572	570	585	601	589	590	564	529	521	518	516	519	512	537	561	561	560	13373	557.2
03	D	565	559	553	540	559	568	587	570	573	577	575	585	600	572	555	548	547	549	556	565	559	562	569	578	13547	564.5
04		581	580	581	581	582	583	585	585	586	588	589	592	590	587	582	577	577	581	587	589	582	564	569	562	13958	581.6
05	D	585	605	595	579	611	466	550	569	568	586	585	576	579	562	553	552	555	555	562	565	565	544	551	555	13463	561.0
06		566	575	562	572	573	578	578	574	574	574	578	579	583	574	569	567	566	569	577	569	551	558	560	576	13702	570.9
07		579	578	581	586	587	582	585	589	589	591	589	594	595	586	577	572	576	580	581	579	586	589	588	587	14024	584.3
08		585	587	604	595	586	591	590	599	600	598	604	604	602	592	585	582	585	590	595	599	595	588	597	598	14245	593.5
09		596	599	594	596	596	597	599	601	603	600	601	605	602	596	585	578	578	585	591	595	597	590	589	591	14261	594.2
10	Q	591	589	585	581	591	595	600	597	597	600	605	604	601	597	586	578	582	591	594	605	602	604	601	605	14275	594.8
11	Q	600	599	601	602	602	605	604	606	606	612	612	613	615	610	595	585	582	589	594	598	600	601	600	596	14423	601.0
12		592	591	593	591	595	599	601	605	606	607	610	616	609	601	590	588	588	593	594	595	595	594	595	592	14330	597.1
13	Q	591	588	597	600	605	602	602	605	605	606	608	607	607	599	591	587	588	600	609	612	611	611	611	610	14446	601.9
14		607	609	609	611	610	606	607	607	608	611	610	610	607	599	592	589	591	598	606	613	612	599	600	598	14508	604.5
15	Q	591	606	595	599	602	602	602	602	605	604	608	608	605	598	590	584	584	591	600	605	606	606	606	605	14402	600.1
16		607	607	607	607	605	604	602	618	618	599	602	626	621	605	595	582	570	580	585	595	601	600	597	594	14419	600.8
17		597	601	605	601	606	605	605	603	602	602	596	590	595	595	584	585	586	592	602	609	608	602	605	605	14377	599.0
18		600	598	606	605	605	611	622	607	609	610	613	612	608	595	591	588	571	574	582	591	587	586	577	574	14322	596.8
19	D	573	571	593	588	592	605	605	611	627	607	604	604	604	600	596	569	558	560	553	545	550	541	547	554	13955	581.5
20		557	557	548	562	584	601	597	595	595	595	594	592	591	589	579	578	580	584	585	593	595	591	581	569	13990	582.9
21		596	601	602	600	602	605	603	604	603	604	605	605	602	598	592	587	588	595	598	602	605	604	596	597	14392	599.7
22		600	606	609	615	618	621	627	616	611	614	612	614	614	599	584	576	572	578	576	566	562	576	579	589	14352	597.2
23		591	578	585	588	600	585	585	588	588	594	593	594	592	584	575	571	573	584	595	604	605	608	608	610	14178	590.8
24		608	598	602	604	603	600	600	604	605	604	604	607	606	598	588	580	576	579	585	599	599	599	594	589	14337	597.4
25		592	598	598	600	603	602	600	600	600	602	603	603	600	594	585	592	589	595	602	609	612	607	605	607	14406	600.3
26	Q	607	608	608	607	607	602	602	603	604	609	609	605	599	594	587	582	584	595	604	609	611	610	610	611	14468	602.8
27		611	613	613	614	615	611	612	615	614	617	617	620	615	608	600	596	599	606	615	619	634	637	636	635	14770	615.4
28		637	627	628	631	625	622	621	620	623	621	622	618	616	607	600	597	597	603	608	611	617	616	617	617	14801	616.7
29		617	618	614	625	618	615	615	623	620	624	633	625	612	601	585	582	588	586	591	594	597	585	582	593	14539	605.8
30		602	604	605	606	619	612	608	609	612	616	612	612	609	605	598	594	596	594	599	604	605	605	603	593	14522	605.1
31		603	609	611	611	610	610	610	611	615	615	618	619	619	607	599	596	595	598	603	608	610	602	580	598	14555	606.5
Sum.		18252	18255	18258	18325	18353	18300	18447	18484	18517	18607	18647	18668	18652	18360	18072	17911	17882	18032	18197	18298	18306	18284	18305	18297	439651	
Mean.		588.8	588.2	589.0	591.1	592.0	590.3	595.1	596.3	597.3	600.2	601.5	602.1	601.0	592.3	585.0	577.8	576.8	581.7	587.0	590.3	591.5	589.8	589.1	590.2		590.9

Vertical component, Z , - (56000 +) gammas

July 1957.

U.T. Date.		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	D	1105	1099	1088	1085	1040	980	1026	1004	1019	1055	1075	1074	1070	1069	1065	1061	1059	1056	1057	1052	1052	1052	1054	1054	25561	1056.3
02	D	1052	1050	1047	1043	1035	1043	1041	1040	1040	1041	1055	1018	975	988	1014	1051	1058	1047	1054	1054	1052	1056	1057	1051	24815	1058.1
03	D	1048	1047	1019	1045	1043	1059	1028	1055	1056	1057	1054	1051	1024	1025	1029	1053	1056	1057	1041	1045	1041	1043	1046	1048	24886	1036.9
04		1043	1041	1038	1057	1055	1055	1055	1056	1056	1055	1056	1056	1056	1055	1055	1052	1053	1054	1055	1056	1053	1025	1054	1059	24850	1035.4
05	D	1051	1051	1059	1021	957	902	1053	1055	951	1007	1010	1008	1024	1052	1058	1058	1057	1058	1040	1042	1041	1056	1043	1046	24518	1021.6
06		1048	1045	1041	1054	1022	1023	1025	1029	1027	1028	1029	1053	1054	1052	1055	1052	1053	1054	1058	1055	1029	1059	1043	1046	24811	1033.8
07		1043	1041	1041	1059	1025	1027	1052	1051	1051	1052	1052	1056	1058	1059	1055	1052	1053	1055	1051	1052	1054	1054	1052	1051	24812	1033.8
08		1052	1054	1051	1055	1028	1052	1028	1024	1028	1052	1055	1055	1056	1056	1055	1052	1050	1052	1029	1054	1051	1027	1052	1053	24749	1031.2
09		1052	1029	1029	1029	1028	1026	1026	1021	1021	1025	1024	1025	1026	1027	1026	1025	1023	1026	1029	1051	1050	1026	1027	1028	24659	1026.6
10	Q	1029	1028	1025	1024	1027	1024	1022	1021	1025	1025	1025	1024	1024	1025	1024	1025	1050	1050	1051	1055	1051	1050	1026	1026	24652	1026.3
11	Q	1025	1027	1025	1025	1024	1025	1023	1023	1023	1024	1023	1024	1025	1025	1020	1019	1020	1022	1024	1025	1026	1025	1024	1021	24567	1023.6
12		1022	1023	1025	1019	1025	1026	1025	1019	1019	1025	1025	1024	1021	1023	1022	1022	1020	1023	1025	1021	1024	1027	1025	1025	24549	1022.9
13	Q	1024	1025	1028	1027	1027	1024	1024	1022	1023	1025	1025	1025	1023	1021	1021	1020	1020	1025	1027	1028	1025	1025	1025	1021	24576	1024.0
14		1020	1021	1021	1021	1018	1017	1018	1018	1020	1016	1015	1018	1018	1019	1017	1016	1019	1021	1023	1027	1025	1018	1019	1022	24467	1019.5
15	Q	1022	1028	1021	1023	1022	1020	1021	1019	1020	1020	1020	1021	1021	1020	1020	1018	1019	1019	1024	1025	1026	1025	1025	1021	24518	1021.6
16		1021	1021	1019	1019	1018	1017	1017	1022	1011	1010	1015	1015	1007	1008	1009	1006	1002	1012	1016	1023	1029	1051	1050	1050	24406	1016.9
17		1051	1054	1050	1026	1024	1023	1021	1019	1020	1018	1015	1014	1016	1018	1017	1021	1022	1024	1027	1050	1028	1024	1024	1021	24547	1022.8
18		1020	1021	1022	1020	1020	1019	1008	1004	1009	1011	1015	1010	1015	1015	1018	1017	1008	1008	1015	1020	1020	1024	1025	1027	24385	1016.0
19	D	1027	1023	1022	1022	1024	1027	1024	1011	1008	1005	1011	1016	1018	1020	1019	1011	999	1008	1009	1012	1027	1052	1059	1044	24458	1019.1
20		1045	1045	1040	1037	1032	1025	1015	1021	1022	1023	1024	1024	1026	1028	1025	1025	1024	1022	1020	1026	1029	1027	1025	1026	24646	1026.9
21		1054	1051	1027	1025	1024	1024	1021	1021	1019	1020	1019	1019	1021	1020	1018	1019	1020	1020	1024	1026	1026	1025	1019	1020	24540	1022.5
22		1021	1023	1025	1022	1025	1014	969	1003	1011	1015	1010	1001	1006	1008	1009	1011	1007	1012	1015	1014	1022	1051	1052	1056	24354	1014.8
23		1055	1055	1051	1039	1024	1015	1019	1020	1021	1021	1020	1025	1022	1021	1020	1018	1016	1021	1024	1028	1026	1024	1025	1023	24559	1023.3
24		1018	1018	1020	1020	1017	1017	1017	1018	1010	1015	1015	1015	1010	1015	1015	1015	1015	1014	1022	1025	1024	1026	1022	1022	24421	1017.5
25		1026	1026	1022	1021	1018	1014	1010	1014	1015	1016	1015	1015	1016	1016	1015	1012	1012	1015	1016	1020	1021	1015	1015	1015	24398	1016.6
26	Q	1014	1015	1014	1012	1012	1012	1011	1011	1011	1012	1009	1009	1010	1011	1008	1007	1010	1015	1016	1018	1016	1014	1015	1015	24291	1012.1
27		1012	1012	1012	1012	1012	1011	1011	1010	1011	1010	1011	1011	1010	1009	1006	1004	1004	1008	1012	1014	1017	1017	1011	1010	24257	1010.7
28		1010	1004	1007	1009	1006	1005	1004	1005	1004	1004	1004	1004	1005	1005	1005	1002	1005	1007	1008	1011	1011	1012	1011	1008	24150	1006.3
29		1010	1011	1008	1008	1002	1007	1007	1006	1004	1004	998	992	998	1002	997	1000	1005	1007	1012	1014	1016	1010	1012	1018	24146	1006.1
30		1021	1019	1017	1016	1014	1008	1007	1011	1009	1008	1007	1009	1009	1010	1007	1006	1006	1007	1010	1012	1015	1015	1011	1009	24259	1010.8
31		1011	1013	1011	1010	1007	1008	1008	1006	1007	1008	1008	1008	1008	1004	1001	1001	1001	1005	1008	1011	1012	1009	1002	1010	24177	1007.4
Sum.		31950	31939	31843	31808	31641	31489	31592	31579	31509	31619	31655	31615	31590	31604	31617	31611	31600	31678	31758	31822	31847	31850	31822	31842	760834	
Mean. 1000+		30.6	30.5	27.2	26.0	20.7	15.8	19.1	18.7	16.4	20.0	20.4	19.8	19.0	19.5	19.9	19.7	19.4	21.9	24.4	26.5	27.3	26.8	26.5	27.2		1022.8

Declination, D , East of North , 17 degrees + tabulated values in minutes of arc.

August 1957

U.T. Date.		0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01		12.5	12.3	12.3	11.6	09.2	08.0	12.0	11.3	12.3	12.3	12.4	11.9	11.8	11.5	12.0	12.6	13.8	14.6	14.7	14.1	13.0	12.5	12.4	12.3	293.4	12.23
02		12.5	12.3	05.7	08.7	09.4	08.9	08.5	10.4	10.9	11.5	12.6	12.4	12.0	12.3	12.3	13.5	14.1	15.0	15.4	14.9	15.0	15.0	14.0	13.4	290.5	12.10
03	D	09.7	12.9	12.8	12.7	12.5	12.3	12.3	11.4	11.3	12.3	13.2	12.9	12.5	11.9	12.4	13.1	13.2	15.3	16.9	16.8	14.8	14.1	14.4	16.4	318.1	13.25
04		15.7	10.3	12.5	11.4	11.4	09.5	11.2	12.2	13.2	14.0	13.4	12.9	12.3	12.0	12.5	13.4	14.7	14.9	15.1	14.3	13.6	13.2	13.1	13.4	310.2	12.93
05		13.2	13.1	13.1	13.0	13.1	13.1	13.2	13.1	12.9	12.6	13.1	12.8	12.3	11.8	12.5	13.4	14.6	15.9	17.2	17.6	16.8	16.6	15.9	11.4	332.3	13.85
06	D	09.9	11.3	10.5	09.3	06.6	01.2	00.3	08.7	10.1	11.6	16.1	17.0	15.9	16.5	17.6	16.2	15.5	17.9	18.0	18.0	18.1	17.9	16.5	14.3	315.0	13.13
07		11.5	11.1	12.5	11.4	11.8	10.4	11.6	13.3	14.6	12.0	12.3	12.4	13.2	12.5	13.0	13.5	14.9	16.1	16.7	16.2	15.1	14.5	14.2	13.9	318.7	13.28
08		13.2	13.3	12.7	11.6	11.6	09.9	09.0	12.6	12.4	11.7	12.3	12.5	11.5	11.2	11.5	12.7	13.8	14.6	15.1	14.6	13.4	13.3	13.3	12.2	300.0	12.50
09		13.0	10.7	12.1	10.3	11.5	11.6	12.4	12.9	12.5	12.5	12.4	12.2	11.5	10.7	10.8	12.5	14.2	15.3	15.6	14.8	14.2	14.9	15.3	12.9	306.8	12.78
10		14.3	13.5	03.9	08.5	11.6	11.6	10.6	11.3	11.3	11.6	12.0	12.5	12.5	12.4	13.1	14.3	15.2	15.8	16.2	15.2	14.3	14.0	14.0	13.4	303.1	12.63
11	Q	13.2	13.1	12.7	12.4	12.3	12.1	12.2	12.3	12.4	12.5	12.5	12.0	11.0	10.5	10.8	12.3	13.8	15.2	15.3	14.4	13.5	12.7	12.6	13.0	304.8	12.70
12		12.8	13.0	13.1	07.3	06.4	09.9	09.0	12.0	11.8	09.7	10.6	10.7	10.4	10.5	11.7	12.7	14.9	17.3	17.8	16.3	15.0	14.0	14.2	13.6	294.7	12.28
13	D	13.3	13.0	08.3	56.1*	57.1*	59.1*	03.9	04.2	06.2	14.3	17.1	16.1	17.2	15.1	14.4	14.8	15.3	16.0	16.8	16.7	15.1	14.5	13.4	14.1	272.1	11.34
14		14.1	13.7	13.6	13.4	13.2	13.1	13.1	13.1	13.5	13.5	13.0	12.2	12.1	11.7	12.2	13.5	14.7	15.9	15.5	16.2	16.0	15.3	15.2	15.2	333.0	13.88
15		12.9	12.7	08.1	13.3	13.4	13.0	12.8	12.7	13.0	12.6	12.6	12.8	12.1	11.8	12.0	12.8	14.3	15.2	15.4	15.1	14.4	15.1	13.2	14.6	315.8	13.16
16		14.4	11.7	11.0	10.0	12.5	13.1	13.2	13.3	13.4	13.4	13.3	12.7	11.9	11.4	11.8	13.4	14.9	16.2	16.6	16.3	14.9	14.2	13.8	13.5	320.9	13.37
17	Q	12.6	12.5	12.7	12.8	12.7	12.9	12.7	12.5	12.5	12.6	12.3	11.9	11.4	10.6	10.7	12.2	14.2	15.3	15.5	15.1	13.9	13.2	13.2	13.8	309.2	12.88
18		13.0	12.7	12.4	11.6	12.0	12.1	12.1	11.9	11.8	11.8	11.7	11.8	11.7	11.3	11.4	12.8	15.2	16.7	17.2	16.1	14.7	14.2	13.7	14.3	314.2	13.09
19		15.3	14.5	10.6	10.0	09.9	06.9	--	--	--	--	--	--	--	11.5	11.8	13.5	15.1	16.0	16.2	15.3	14.5	13.8	13.6	13.5	222.0	
20		12.7	13.2	13.1	13.1	11.8	11.0	09.7	10.7	11.2	12.1	12.2	11.9	11.5	11.2	12.7	14.2	15.4	16.3	18.1	18.1	16.3	16.4	15.5	16.3	324.7	13.53
21		15.1	11.8	08.9	07.7	05.0	02.6	05.6	09.8	11.8	12.6	12.6	11.5	10.8	11.5	12.6	13.8	15.3	15.6	16.4	16.3	15.5	14.5	14.1	14.0	285.4	11.89
22	Q	12.7	13.6	13.5	12.9	12.1	12.3	11.9	12.7	12.9	12.9	12.4	11.8	11.3	10.6	10.9	12.8	14.7	16.0	16.3	15.6	14.4	13.4	13.2	13.4	315.3	13.14
23	Q	13.5	13.2	13.1	12.9	12.9	12.6	12.6	12.6	12.6	12.6	12.2	11.6	10.0	09.8	10.7	12.7	14.5	15.4	15.3	14.7	14.1	13.7	13.5	13.3	310.3	12.93
24	Q	13.3	13.1	12.7	12.6	12.4	12.5	12.4	12.5	12.4	12.3	11.8	11.3	10.5	09.7	09.8	11.5	13.4	15.2	16.0	15.4	14.4	13.5	13.5	13.3	305.7	12.74
25		13.2	13.1	12.6	12.4	12.3	11.8	10.9	10.8	10.7	10.8	10.8	10.6	09.9	09.5	09.6	11.6	13.3	14.5	15.1	15.2	15.3	14.4	15.0	13.2	302.6	12.36
26		12.8	13.2	13.0	12.5	12.4	11.4	11.6	11.7	11.6	11.6	11.6	10.9	10.2	09.3	10.2	11.5	13.5	16.1	16.3	16.3	15.2	14.4	14.0	13.6	304.9	12.70
27		13.2	13.2	12.4	11.8	03.1	03.6	10.6	11.9	13.1	12.5	13.3	13.2	12.2	11.5	11.6	12.0	13.7	15.3	16.5	16.2	15.4	12.3	13.4	13.6	295.8	12.32
28		13.2	13.0	13.0	12.4	11.6	08.8	06.6	14.2	12.4	12.0	11.6	11.7	10.6	09.8	10.5	12.7	15.1	17.0	17.0	16.6	15.6	14.2	13.2	11.6	304.4	12.68
29		13.3	13.1	13.0	12.6	12.4	12.4	12.2	12.1	12.3	12.1	11.8	11.7	11.3	09.8	10.2	11.5	13.4	15.1	16.1	12.4	10.4	22.3	17.1	17.8	314.2	13.09
30	D	20.3	14.9	14.2	09.8	08.4	06.0	10.9	14.0	15.9	16.9	13.8	14.3	11.9	11.4	11.6	12.9	14.2	15.6	16.0	16.7	16.0	14.9	14.3	13.9	328.8	13.70
31	D	13.2	12.3	11.3	13.2	13.2	12.2	11.2	12.6	14.2	13.2	12.5	12.1	10.3	10.3	09.5	11.4	13.0	17.0	19.9	20.7	18.7	18.5	16.1	15.8	332.6	13.86
Sum.		412.4	395.4	361.4	339.3	325.8	305.9	316.3	354.8	367.2	374.1	379.5	372.3	353.8	351.6	364.4	402.0	447.9	488.3	506.2	492.5	461.6	453.5	438.9	428.2	9493.3	
Mean.		13.30	12.75	11.66	10.95	10.51	09.87	10.54	11.83	12.24	12.47	12.65	12.41	11.79	11.34	11.75	12.97	14.45	15.75	16.33	15.89	14.89	14.63	14.16	13.81		12.88

* 16 degrees + tabulated value.

Horizontal component, H , 25,000 gammas + tabulated values. August 1957.

Date.	U.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01		601	605	609	607	610	605	615	615	610	611	614	615	609	601	588	583	588	595	605	610	614	616	613	614	14547	606.1
02		616	606	608	595	597	616	609	609	614	615	615	617	615	605	591	586	585	590	597	597	595	591	594	586	14441	601.7
03	D	574	596	604	607	609	615	617	624	614	614	611	610	605	597	586	582	601	582	576	581	594	596	601	597	14391	599.6
04		540	589	585	591	599	594	599	598	602	609	608	606	604	592	580	577	582	585	592	605	605	602	602	602	14240	593.3
05		604	605	601	602	604	599	602	604	604	610	609	606	604	591	584	577	583	577	578	581	582	572	573	545	14195	591.5
06	D	548	555	554	565	597	590	583	579	610	616	627	597	602	599	583	581	575	569	581	577	563	559	557	552	13899	579.1
07		581	585	585	597	596	590	591	594	602	606	599	605	592	587	577	573	575	577	581	588	590	590	590	589	14148	589.5
08		601	605	601	600	605	605	597	604	599	609	607	607	603	592	589	587	587	591	598	612	610	609	605	600	14423	601.0
09		598	585	600	592	599	598	601	606	604	604	607	609	605	598	601	598	593	600	606	610	610	606	603	592	14423	601.0
10		599	603	592	594	589	595	606	598	596	594	596	599	594	586	585	585	585	585	594	601	604	605	610	608	14301	595.9
11	Q	611	615	610	609	608	608	607	605	605	606	606	607	606	600	589	583	585	591	600	608	610	609	609	609	14496	604.0
12		605	609	591	586	584	598	600	598	610	618	608	613	613	595	581	575	572	567	575	595	591	594	592	597	14265	594.4
13	D	610	612	589	544	543	535	555	597	586	578	588	576	592	576	557	551	561	564	569	583	585	584	583	590	13836	576.5
14		591	592	595	594	595	593	595	592	595	593	591	595	595	593	585	577	568	575	578	586	581	584	581	578	14104	587.7
15		590	571	566	589	594	597	598	599	603	597	599	599	595	592	586	580	580	586	591	595	594	585	584	584	14152	589.7
16		579	572	575	582	594	598	598	600	600	601	602	605	600	590	582	577	579	585	589	595	591	595	594	597	14172	590.5
17	Q	596	600	602	603	605	604	605	604	605	607	608	608	605	597	586	578	580	587	595	601	606	606	606	606	14394	599.8
18		605	607	609	606	606	609	611	615	614	618	614	602	595	584	568	560	566	579	590	599	602	605	605	607	14368	598.7
19		604	606	607	585	596	594	-	-	-	-	-	-	-	578	568	565	565	574	585	588	591	593	597	599	9991	
20		599	602	598	599	595	588	590	589	592	600	597	596	592	582	575	575	567	576	574	583	586	583	585	592	14113	588.0
21		576	555	556	578	549	564	576	577	575	580	595	595	591	577	562	550	554	566	573	579	581	586	586	590	13771	573.8
22	Q	590	595	594	595	590	595	596	599	596	602	604	605	599	590	575	567	569	580	586	594	599	597	598	598	14205	591.9
23	Q	601	600	605	605	608	608	610	609	609	615	612	611	600	596	570	566	575	579	585	595	600	605	600	604	14351	598.0
24	Q	603	608	607	608	608	611	608	612	608	611	609	612	604	595	576	575	569	574	581	596	601	605	605	606	14390	599.6
25		607	611	608	612	611	617	619	621	618	619	616	616	608	603	591	582	578	581	585	589	591	588	578	583	14452	601.3
26		598	608	606	608	615	612	606	605	609	609	609	609	605	595	584	580	574	576	586	594	600	605	606	611	14406	600.3
27		597	603	604	617	600	596	589	601	603	609	606	612	609	598	585	575	573	571	577	578	585	575	595	590	14246	593.6
28		599	600	605	602	608	617	601	603	605	605	604	605	596	592	578	567	560	568	582	588	589	590	588	580	14230	592.9
29		599	599	604	606	607	605	605	605	606	608	610	612	605	598	584	580	575	581	586	604	630	589	584	615	14395	599.8
30	D	621	575	565	567	572	559	560	570	584	579	588	576	572	562	550	549	552	559	568	572	575	576	575	577	13705	571.0
31	D	580	576	574	584	585	598	600	589	584	587	589	590	586	563	550	547	535	533	535	566	578	594	574	560	13757	573.2
Sum.		18425	18442	18405	18421	18472	18537	17929	18017	18062	18126	18146	18113	17997	18290	17940	17786	17789	17896	18094	18546	18431	18384	18371	18366	436785	
Mean.		594.4	594.9	593.7	594.2	595.9	598.0	597.6	600.6	602.1	604.2	604.9	603.8	599.9	590.0	578.7	573.7	573.8	577.5	583.7	591.8	594.5	593.0	592.6	592.5		592.7

Vertical component, Z , - (56000 +) gammas

August 1957.

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	1011	1012	1012	1008	1007	1002	1001	1005	1008	1009	1011	1011	1010	1008	1005	1002	1003	1006	1015	1015	1018	1016	1015	1015	24217	1009.0
02	1010	1007	999	1000	1005	1004	1000	1005	1006	1007	1009	1011	1011	1007	1005	1001	1003	1005	1008	1009	1009	1009	1015	1016	24159	1006.6
03 D	1012	1016	1015	1015	1012	1011	1010	1005	998	1002	1004	1007	1009	1010	1006	1004	1005	995	998	1008	1019	1019	1021	1020	24219	1009.1
04	1024	1027	1020	1020	1019	1015	1015	1015	1015	1014	1015	1016	1017	1014	1014	1012	1007	1007	1012	1017	1016	1016	1015	1015	24571	1015.5
05	1015	1012	1012	1012	1009	1008	1010	1009	1009	1012	1011	1012	1014	1011	1009	1005	1005	1002	1005	1011	1014	1015	1015	1015	24246	1010.3
06 D	1022	1021	1027	1026	1020	990	985	981	976	987	999	980	1005	1010	1009	1012	1010	1004	1015	1016	1015	1022	1032	1031	24169	1007.0
07	1031	1027	1026	1020	1007	1010	1012	1013	1010	1008	1010	1014	1012	1013	1015	1012	1010	1011	1014	1021	1021	1022	1020	1022	24381	1015.9
08	1025	1021	1018	1016	1015	1009	999	1009	1012	1014	1014	1013	1014	1013	1011	1009	1007	1009	1012	1018	1017	1014	1015	1012	24314	1013.1
09	1012	1010	1011	1007	1012	1009	1008	1002	1005	1008	1008	1009	1011	1008	1006	999	994	996	1002	1006	1008	1005	1004	1008	24145	1006.0
10	1011	1014	1006	1005	1005	1007	1006	1002	1002	1000	1000	1001	1001	999	998	996	998	999	1005	1008	1009	1009	1008	1004	24089	1005.7
11 Q	1007	1006	1002	999	998	997	996	995	995	995	995	996	999	1000	994	991	991	992	999	1004	1005	1002	999	998	25955	998.1
12	1000	1001	995	996	995	998	991	995	1000	1001	992	994	996	990	991	988	984	982	992	1005	1003	1002	1001	1004	25896	995.7
13 D	1008	1007	999	968	960	956	923	931	956	976	979	976	996	1001	998	996	1001	1000	1005	1009	1010	1008	1006	1007	25676	986.5
14	1004	1003	1002	1000	1000	996	997	994	995	994	996	998	999	996	993	988	985	991	996	998	997	996	999	997	25912	996.3
15	1000	1000	996	1005	1002	1002	999	998	993	990	994	994	994	997	991	985	987	991	993	997	1000	990	993	994	25835	995.2
16	997	998	995	996	1002	1000	998	996	995	994	994	996	995	993	989	984	985	987	991	996	997	998	998	999	25875	995.2
17 Q	999	999	998	996	995	994	994	994	994	995	995	995	995	995	993	986	982	988	992	997	1001	999	997	996	25869	994.5
18	996	996	997	992	992	993	995	995	994	994	992	987	986	984	978	978	982	986	991	997	1000	999	997	998	25799	991.6
19	999	1001	992	991	994	—	—	—	—	—	—	—	—	992	989	987	984	988	993	998	1000	1000	999	996	15905	
20	1000	1000	995	997	995	995	992	992	993	992	995	992	995	990	988	985	977	985	986	996	1000	1000	1000	1004	25834	995.0
21	1005	995	1001	975	975	974	965	992	996	994	988	987	990	988	989	986	988	995	1000	998	1004	1005	1002	1008	25810	992.1
22 Q	1000	998	996	997	994	994	990	993	991	994	994	995	994	992	994	994	988	988	991	996	999	998	994	994	25835	995.1
23 Q	994	994	995	991	992	990	990	988	989	989	989	990	991	989	980	978	980	985	990	991	992	991	990	991	25735	989.0
24 Q	991	991	989	989	989	988	987	986	985	986	986	987	987	984	977	974	975	979	984	991	994	993	979	990	25681	985.9
25	989	990	988	989	987	989	989	987	984	982	981	985	982	982	976	971	970	973	978	984	987	988	985	988	25602	985.4
26	995	996	994	991	992	987	988	985	986	983	984	985	984	982	978	973	968	967	976	981	991	990	992	989	25685	984.8
27	988	989	990	995	979	970	978	986	981	985	979	981	981	982	979	980	974	972	977	984	995	992	998	995	25676	985.6
28	995	992	993	989	995	986	968	974	980	985	986	985	984	985	978	975	969	977	982	988	989	994	991	989	25625	984.3
29	991	990	992	990	988	987	987	985	986	985	987	984	981	975	969	966	965	967	973	986	1012	1007	997	1008	25652	985.5
30 D	1041	1036	1006	1014	997	988	989	992	992	979	994	995	1002	1001	993	991	987	989	992	995	999	1005	1002	1000	25978	999.1
31 D	1005	1002	1000	1000	995	984	985	978	984	992	995	998	998	985	983	979	966	971	974	989	1002	1015	1006	1012	25788	991.2
Sum.	31169	31161	31061	30985	30951	29829	29743	29758	29810	29842	29872	29868	29931	30876	30769	30671	30625	30687	30833	31009	31118	31111	31079	31099	753857	
Mean.				999.5	997.6	994.3	991.4	991.9	993.7	994.7	995.7	995.6	997.7	996.0	992.5	989.4	987.9	989.9	994.6							997.1
1000+	5.5	5.2	2.0																	0.3	3.8	3.6	2.5	3.2		

Declination, D , east of north, 17 degrees + tabulated values in minutes of arc. September 1957

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	14.5	09.9	05.9	05.0	08.6	12.0	15.2	15.7	14.0	13.4	13.4	12.9	11.8	11.3	12.7	13.7	15.8	17.7	18.0	17.6	15.9	14.1	13.7	10.7	311.5	12.98
02	10.9	12.8	13.3	10.3	03.7	58.7*	01.0	02.1	09.2	11.5	12.2	12.1	13.1	13.7	13.1	14.0	17.1	19.6	19.9	23.2	23.9	12.1	24.1	24.1	314.7	13.11
03 D	15.4	18.5	10.7	05.5	11.3	13.1	13.9	12.1	13.6	16.7	19.2	20.4	30.0	32.7	22.7	21.2	25.1	24.3	22.8	21.4	19.3	16.8	17.4	16.0	440.1	18.34
04 D	14.0	13.7	15.7	14.7	12.6	13.3	14.7	14.7	14.8	14.7	14.5	13.7	12.2	08.6	09.5	21.6	22.8	30.3	32.3	31.7	29.5	29.6	17.9	19.9	437.0	18.21
05	20.4	11.0	50.4*	54.5*	20.0	05.4	19.5	27.2	15.7	20.4	19.2	17.7	17.4	16.9	16.7	17.8	19.2	19.7	21.6	21.9	19.5	12.9	08.9	17.5	371.4	15.48
06	17.9	17.1	12.9	12.9	14.1	14.2	11.2	12.8	14.4	16.6	15.9	16.7	18.9	16.6	16.5	15.2	16.7	19.3	20.4	21.2	18.4	16.9	16.3	16.0	389.1	16.21
07	15.5	14.9	14.3	13.8	10.1	12.0	13.3	13.8	14.0	14.0	13.8	12.2	10.8	10.3	11.2	13.2	15.7	17.6	19.3	19.3	17.6	15.9	14.3	14.7	342.1	14.25
08 Q	14.4	13.9	13.6	13.4	13.1	12.9	12.9	12.9	12.8	12.9	12.4	11.1	09.5	09.2	10.2	12.8	15.5	17.1	18.0	18.1	16.7	14.8	14.4	14.6	327.2	13.63
09	13.8	13.6	09.2	09.1	11.1	11.0	12.7	09.3	10.0	11.8	10.4	10.7	10.9	10.2	10.2	12.1	15.3	17.6	19.0	19.1	17.4	15.6	14.9	14.6	309.6	12.90
10	13.9	13.6	13.3	13.0	13.2	12.9	12.8	11.8	11.6	12.7	12.6	11.3	10.2	09.9	10.3	11.8	14.5	16.9	17.4	17.4	15.9	14.6	14.2	14.2	320.0	13.33
11 Q	13.3	11.7	12.7	12.8	12.8	12.6	12.7	13.5	12.5	12.1	11.5	10.5	08.9	08.4	09.8	11.2	14.5	17.4	19.0	18.3	17.4	15.8	14.8	13.8	317.0	13.21
12	11.5	11.7	11.8	12.3	12.8	12.7	12.6	12.6	12.3	12.1	12.2	11.3	09.1	08.2	09.7	11.6	14.5	17.3	19.0	18.3	16.4	14.7	13.6	11.6	309.9	12.91
13 D	10.9	08.0	10.7	58.7*	57.8*	53.6*	40.1*	35.9*	58.2*	33.5	22.2	15.6	19.3	20.6	21.2	21.3	22.6	22.9	25.4	22.9	21.4	20.1	17.5	17.2	296.5	12.35
14	16.8	15.6	15.4	15.4	14.8	14.5	13.9	14.6	15.3	10.8	15.5	16.3	17.1	15.3	16.3	17.8	19.8	20.6	21.8	20.5	19.0	17.4	15.5	10.2	390.2	16.26
15	14.4	14.3	12.3	12.2	11.1	11.8	13.0	14.1	13.7	13.3	12.6	12.4	10.8	10.8	11.3	13.0	16.3	19.0	20.9	21.4	19.9	17.7	15.6	15.8	348.3	14.51
16	15.3	13.2	08.2	07.1	10.5	11.0	11.9	11.9	12.3	11.6	11.5	09.9	08.5	08.1	09.5	12.3	16.2	18.0	19.1	18.0	16.2	15.1	14.3	14.1	305.8	12.66
17	13.3	13.1	12.4	12.3	11.8	11.7	11.7	11.0	10.9	11.7	10.3	09.6	07.2	07.0	10.7	13.4	16.5	19.1	19.5	18.7	17.0	15.4	14.5	13.9	312.7	13.03
18	13.3	12.3	07.8	06.7	06.1	09.6	10.8	11.4	10.8	10.6	10.3	08.8	06.8	06.3	09.3	12.4	15.3	18.7	20.1	18.9	16.9	14.1	12.4	12.7	285.0	11.79
19 Q	12.3	12.1	11.8	11.4	11.5	11.5	11.4	11.3	11.2	10.7	10.2	09.6	06.7	06.7	08.7	12.2	15.3	17.9	18.8	17.8	15.7	14.1	13.3	12.5	293.7	12.24
20 Q	11.8	11.7	12.1	11.9	11.5	11.2	11.4	11.1	10.6	10.5	09.6	08.4	06.8	06.8	09.0	11.9	15.3	17.8	19.5	18.7	15.7	14.0	13.4	12.7	293.5	12.23
21	10.1	11.1	11.4	10.6	10.4	09.7	09.7	09.5	09.7	10.3	11.0	11.1	08.6	10.1	12.5	13.7	16.4	21.7	23.3	25.1	22.6	18.9	17.6	17.8	333.5	13.90
22	16.7	12.4	14.1	09.6	06.7	06.5	05.8	06.2	12.4	12.4	13.2	14.2	12.8	11.2	17.9	16.1	22.1	22.8	26.2	25.5	24.0	23.3	20.1	15.7	367.9	15.33
23 D	10.2	11.0	08.1	06.8	14.0	27.2	07.1	58.3*	14.4	19.6	26.1	27.9	25.5	22.7	29.0	25.5	25.1	28.1	25.3	26.7	21.0	17.3	16.5	16.7	450.3	18.76
24	13.0	05.1	11.4	15.0	14.0	13.3	12.9	11.6	11.1	13.6	13.2	13.0	13.0	13.6	13.4	15.3	19.0	21.3	21.6	21.3	19.3	16.8	16.0	15.1	352.3	14.68
25	14.1	11.3	11.4	11.4	09.4	10.4	10.0	13.1	09.3	08.5	11.0	13.0	11.1	11.4	10.1	11.9	14.7	17.7	18.9	18.7	17.1	15.3	14.2	13.9	308.0	12.85
26	13.1	13.2	13.1	12.8	12.2	12.2	10.4	09.4	10.4	11.6	11.9	10.2	08.8	07.4	09.3	12.7	16.4	18.8	20.1	20.1	17.8	15.1	14.1	13.7	315.0	13.13
27 Q	13.2	13.0	12.8	12.2	12.2	11.8	11.1	10.6	10.4	10.3	09.3	08.1	07.0	07.3	09.4	13.1	16.9	18.9	19.5	17.8	16.1	15.0	14.1	13.3	303.8	12.66
28	12.6	12.2	12.1	11.6	09.3	06.0	09.3	11.2	11.3	11.6	11.3	10.4	09.4	08.3	09.3	11.7	15.1	17.6	18.6	18.4	16.1	14.1	13.2	13.1	294.0	12.25
29 D	12.4	11.9	10.5	08.8	09.9	09.2	59.2*	04.5	06.8	06.6	06.9	04.9	07.4	03.4	12.2	13.5	24.9	32.0	37.1	36.9	33.5	25.4	31.5	25.7	378.1	15.75
30	18.8	17.9	15.5	10.5	16.5	16.2	15.8	14.3	10.8	15.9	12.3	12.9	11.1	13.6	15.6	20.2	22.6	26.0	25.0	23.1	21.3	18.5	13.9	11.3	399.6	16.65
Sum.	417.8	381.8	334.9	302.3	333.1	328.2	308.0	306.5	344.5	402.0	395.7	375.9	339.7	348.4	393.7	450.3	537.2	613.7	645.6	658.0	578.5	501.4	472.5	451.1	10213.8	
Mean.	13.93	12.73	11.16	10.08	11.10	10.94	10.27	10.22	11.48	13.40	13.19	12.53	11.99	11.61	12.89	15.01	17.91	20.46	21.52	21.27	19.28	16.71	15.75	15.04		14.19

* 16 degrees + tabulated value.

Horizontal component, H , 25,000 gammas + tabulated values. September 1957.

Date.	U.T. 0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	576	585	617	607	599	605	604	587	587	587	589	588	578	559	549	548	551	556	572	581	587	592	598	592	13994	583.1
02	598	601	608	615	612	598	574	557	568	579	584	579	553	542	538	522	532	525	535	553	546	505	504	482	13411	558.8
03 D	460	486	487	531	551	539	557	536	545	542	553	520	500	511	489	470	482	471	464	497	509	517	527	530	12284	510.6
04 D	530	541	550	569	584	552	553	551	555	556	558	559	554	558	485	330	365	390	481	459	458	506	455	446	12121	505.0
05	458	457	336	194	102	380	490	486	516	502	507	509	507	504	511	510	512	509	511	511	522	514	321	540	11195	466.5
06	545	550	549	565	545	554	554	555	559	574	578	576	557	569	541	525	511	517	519	532	545	550	559	562	13195	549.8
07	573	580	576	577	586	571	566	569	570	573	575	580	571	552	534	518	521	529	543	561	571	577	578	580	13331	555.8
08 Q	579	582	582	582	586	587	590	589	587	590	593	592	575	558	547	538	542	551	561	572	580	584	581	587	13815	575.6
09	591	597	592	588	591	589	604	595	585	592	596	580	583	572	552	535	525	535	555	568	574	580	589	592	13860	577.5
10	593	596	595	594	593	593	594	602	595	595	597	595	580	558	542	539	544	546	557	573	583	579	587	589	13917	579.9
11 Q	593	595	600	600	601	596	596	602	598	600	602	595	584	569	554	540	544	547	557	568	572	578	580	583	13952	581.3
12	586	594	599	599	599	611	598	597	599	603	607	611	601	584	567	555	550	549	560	575	587	594	595	589	14107	587.8
13 D	611	672	622	466	479	494	421	291	078	211	296	348	399	447	458	462	464	481	498	508	524	525	539	547	10841	451.7
14	553	554	563	554	561	558	570	554	582	588	571	565	567	520	507	505	494	501	515	529	543	538	544	567	13102	545.9
15	558	569	559	562	574	567	578	576	575	578	582	581	569	549	531	522	525	534	541	558	570	578	565	583	13480	561.7
16	578	570	579	569	574	585	584	583	586	590	594	591	577	558	541	530	537	546	557	578	588	585	594	591	13771	573.8
17	594	605	606	599	606	604	601	597	596	604	609	610	597	586	543	534	525	554	571	588	591	600	604	610	14114	588.1
18	606	616	616	615	606	598	601	603	603	605	610	612	596	572	552	538	543	556	561	569	579	593	598	594	14142	589.3
19 Q	602	610	611	610	612	611	607	607	608	606	606	602	590	568	546	538	544	557	569	587	596	598	601	606	14192	591.3
20 Q	604	607	613	615	616	614	616	611	611	614	614	606	588	566	550	544	549	558	578	586	600	613	611	618	14302	595.9
21	615	623	625	622	620	618	616	612	615	618	627	570	541	528	518	508	490	462	501	516	495	536	552	554	13578	565.8
22	541	553	553	524	510	514	531	537	553	565	556	536	522	490	371	412	460	471	483	496	507	536	561	550	12312	513.0
23 D	512	550	557	472	371	166	333	454	444	452	449	445	431	411	420	432	442	450	472	493	502	536	532	550	10854	451.4
24	539	553	582	569	568	565	554	552	555	546	568	555	529	524	516	502	502	516	537	550	562	573	576	582	13175	549.0
25	587	595	579	577	574	576	569	574	577	576	573	573	570	535	519	510	512	528	545	562	574	585	587	586	13545	564.4
26	595	594	598	598	597	598	595	588	588	592	601	604	593	570	545	535	535	546	565	582	591	594	597	600	13997	583.2
27 Q	599	599	598	598	599	599	597	597	597	603	601	595	578	560	542	533	537	550	573	584	587	594	601	602	14021	584.2
28	598	599	604	607	594	575	574	590	592	596	595	590	581	561	541	530	531	545	563	569	582	589	592	597	13895	579.0
29 D	611	618	615	599	621	628	602	582	597	606	610	611	620	543	444	343	379	427	425	472	525	537	552	537	13104	546.0
30	530	537	546	543	534	537	535	533	519	515	533	528	503	496	479	469	476	496	527	537	551	549	545	557	12575	524.0
Sum.	17113	17346	17316	16920	16825	16778	16960	16847	16737	16956	17134	17008	16694	16200	15530	15077	15222	15503	15996	16392	16707	16941	17023	17107	398332	
Mean.	570.4	578.2	577.2	564.0	560.8	559.3	565.3	561.6	557.9	565.2	571.1	566.9	556.5	540.0	517.7	502.6	507.4	516.8	533.2	546.4	556.9	564.7	567.4	570.2		553.2

Vertical component, Z , - (36000 +) gammas

September 1957.

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	1027	1025	999	977	985	983	959	980	971	980	989	985	994	989	989	987	985	985	995	999	1004	1004	1005	1005	25761	990.0
02	1004	1001	994	990	987	915	915	901	985	996	999	995	974	976	981	977	981	981	996	1014	1052	1041	1092	1158	25853	993.9
03 D	1011	1005	952	1000	1019	1015	1009	991	999	987	983	899	887	956	969	990	1054	1027	1029	1040	1043	1040	1040	1055	24061	1002.5
04 D	1035	1032	1027	1018	985	994	1008	1011	1011	1011	1009	1012	1013	1014	973	888	947	1004	1158	1068	1080	1085	1141	1151	24605	1025.1
05	1197	1070	979	773	577	917	1005	985	1025	1063	1068	1062	1058	1055	1063	1046	1059	1053	1050	1050	1045	1055	1051	1042	24256	1010.7
06	1059	1058	1052	1005	1009	1007	1006	1009	1011	1009	1007	1006	995	1002	1005	1002	1000	999	1003	1019	1029	1029	1028	1027	24510	1012.9
07	1026	1025	1019	1019	1012	999	1006	1008	1007	1008	1008	1015	1011	1001	995	989	989	992	999	1010	1017	1020	1018	1014	24203	1008.5
08 Q	1015	1015	1010	1008	1006	1008	1007	1006	1005	1005	1005	1005	1000	991	985	978	980	986	992	999	1006	1008	1006	1006	24023	1001.0
09	1006	1008	1004	1000	1000	992	977	978	985	992	997	992	926	991	979	969	958	978	990	1000	1007	1015	1012	1010	23841	993.4
10	1009	1007	1004	1001	999	996	995	991	985	988	994	997	994	985	977	969	962	962	975	985	1005	1000	1002	1002	23783	991.0
11 Q	1004	1005	1002	999	997	994	995	990	987	991	994	995	995	987	976	967	965	967	978	989	995	1001	1005	1005	23775	990.5
12	1006	1005	1004	1000	997	996	995	994	994	994	995	995	991	952	972	985	967	968	976	989	1001	1004	1007	1007	23800	991.7
13 D	1013	1054	1006	855	956	950	768	494	415	399	705	980	1048	1075	1070	1039	1059	1055	1055	1052	1051	1046	1050	1042	22196	924.8
14	1058	1052	1053	1021	1020	1014	1019	998	978	945	944	971	991	984	986	1001	1000	1004	1011	1019	1028	1026	1055	1057	24141	1005.9
15	1038	1018	1015	1018	1004	1008	1007	1008	1007	1007	1009	1009	1005	1000	994	988	985	988	991	1005	1017	1024	1020	1025	24172	1007.2
16	1024	1015	1012	1004	1004	1005	1004	1005	1005	1005	1005	1006	1005	997	986	974	973	980	990	1007	1011	1014	1012	1006	24043	1001.8
17	1005	1008	1007	1000	997	997	994	994	995	995	994	997	988	972	984	985	958	976	989	999	1005	1008	1006	1005	23808	992.0
18	1000	1006	1007	981	973	982	988	990	990	989	992	994	990	980	968	962	965	972	980	989	1005	1009	1009	999	23733	988.9
19 Q	1002	1000	998	994	985	990	987	987	988	988	989	991	988	980	971	962	962	970	980	992	1000	1001	999	999	23711	988.0
20 Q	997	995	994	985	992	988	988	985	985	986	989	991	987	975	965	965	968	974	985	988	998	1001	997	996	23676	986.5
21	995	995	991	987	986	985	982	980	982	982	982	948	941	957	971	966	964	964	1002	1024	1025	1055	1058	1052	23730	988.8
22	1057	1029	1050	1011	1002	990	926	947	968	978	997	996	1002	990	885	947	1005	1011	1011	1021	1050	1075	1122	1115	24144	1006.0
23 D	1079	1046	1021	880	786	470	765	856	850	864	898	924	955	990	999	1029	1059	1040	1050	1056	1074	1084	1086	1054	22868	952.8
24	1051	1045	1024	1016	996	949	985	1006	1006	996	1001	989	990	998	1004	998	995	1003	1012	1017	1029	1050	1027	1026	24194	1008.1
25	1025	1018	1010	1007	990	991	982	968	975	985	992	995	998	987	988	982	979	985	995	1001	1011	1016	1013	1009	23894	995.6
26	1012	1008	1007	1005	1003	991	992	994	995	995	998	1000	996	987	978	974	973	979	990	1005	1013	1012	1009	1007	23921	996.7
27 Q	1004	1001	999	998	999	999	998	998	997	999	997	994	988	982	973	968	967	977	992	1002	1006	1012	1011	1005	23866	994.4
28	999	997	1000	999	988	977	981	995	995	996	995	995	995	991	985	977	972	979	992	1002	1010	1012	1010	1006	23844	993.5
29 D	1008	1006	1004	987	997	964	925	958	988	997	996	992	982	958	890	858	950	984	1051	1048	1130	1089	1106	1115	23955	997.2
30	1045	1035	1027	1015	1013	1014	1014	1015	1007	961	960	985	995	1000	992	986	986	989	1008	1019	1028	1037	1042	1041	24208	1008.7
Sum.	30858	30577	30211	29553	29250	29054	29180	28996	29033	29063	29465	29715	29748	29692	29429	29292	29498	29708	30169	30379	30747	30847	30975	30952	716349	
Mean.				985.1	974.5	968.5	972.7	966.5	967.8	968.8	982.2	990.5	991.6	989.7	981.0	976.4	983.2	990.3								994.9
1000+	27.9	19.2	7.0																5.6	12.6	24.9	28.2	32.5	31.7		

Declination, D , east of north ,17 degrees + tabulated values in minutes of arc. October 1957.

G.M.T. Day	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
1 D	13.[illegible]	13.5	05.9	12.8	14.1	13.9	13.1	11.9	11.3	10.8	09.8	09.0	08.2	08.4	12.1	14.0	16.8	19.4	20.0	20.4	18.7	15.0	15.0	13.1	321.0	13.38
2	13.1	13.8	10.0	11.5	12.2	11.7	11.5	11.3	11.1	10.4	10.3	09.0	07.5	07.2	09.2	12.3	15.7	17.7	18.9	18.1	16.1	14.8	13.8	11.5	298.7	12.45
3	13.[illegible]	12.5	12.5	12.2	11.7	11.2	10.4	10.4	09.5	09.0	08.0	08.2	08.7	10.0	10.0	14.2	17.1	20.8	19.7	19.7	17.4	15.4	14.3	13.3	307.6	12.82
4	1[illegible]	10.1	11.0	12.8	11.4	11.5	10.9	10.3	11.0	11.3	10.5	09.5	08.5	08.3	09.9	12.7	16.0	19.7	20.8	19.4	16.6	15.9	14.0	10.1	304.7	12.70
5	0[illegible].4	10.3	11.0	11.5	12.2	11.2	11.6	12.2	12.8	12.1	10.4	08.3	08.4	09.1	10.7	13.1	16.6	20.2	19.8	18.6	16.7	15.0	13.4	12.2	306.6	12.78
6 Q	11.[illegible]	12.4	12.5	12.2	11.9	11.4	11.3	11.1	10.5	09.7	09.0	08.5	07.8	08.4	10.2	12.7	15.3	17.4	17.5	16.9	15.7	14.1	13.7	13.2	294.9	12.29
7	1[illegible].9	12.3	11.9	11.4	11.4	11.4	09.9	09.8	09.7	08.7	08.8	07.2	06.5	07.2	08.5	11.3	13.4	16.5	17.7	16.9	15.9	13.9	12.4	12.3	277.9	11.58
8	11.[illegible]	12.0	12.2	12.1	11.8	11.8	11.6	10.9	10.2	08.6	07.5	06.7	06.3	07.4	09.3	12.0	14.8	15.9	16.9	17.1	16.1	14.2	12.9	12.5	282.6	11.78
9	1[illegible].9	12.2	12.0	11.3	11.3	11.1	10.5	09.8	09.2	07.8	07.6	07.8	07.3	08.7	10.5	14.0	17.8	21.3	21.6	20.5	16.7	15.2	13.2	12.0	301.6	12.57
10	1[illegible].1	12.0	10.5	10.9	07.7	05.1	05.9	03.9	03.8	09.3	09.2	08.3	08.0	09.8	11.4	14.7	16.8	19.7	22.0	23.1	21.4	17.7	16.0	13.9	292.2	12.18
11 D	1[illegible].9	12.9	11.8	12.0	09.1	08.4	09.5	06.4	08.3	09.3	06.8	08.4	09.4	12.2	13.0	15.9	19.3	20.8	21.9	19.5	17.1	15.1	13.4	13.1	306.6	12.77
12	1[illegible].1	13.1	12.8	12.2	12.5	11.5	08.6	06.8	06.5	07.1	07.6	08.0	08.7	10.6	12.3	15.1	18.7	20.5	21.2	21.1	19.6	16.8	14.5	11.9	310.8	12.95
13 D	1[illegible].5	09.1	06.2	11.8	11.5	07.7	09.0	09.8	10.4	10.3	09.4	08.5	07.0	07.5	11.0	14.0	16.8	19.8	20.8	20.0	18.5	15.1	16.1	15.1	296.9	12.37
14 D	11.[illegible]	10.6	09.2	08.2	10.1	06.7	59.0*	01.7	08.1	08.1	10.4	06.8	07.3	07.3	13.0	18.5	20.6	23.3	25.4	26.6	21.6	21.2	16.6	07.7	299.6	12.48
15	12.4	11.7	12.5	12.0	11.2	13.0	12.3	10.7	10.5	09.6	09.2	08.4	08.6	10.4	11.2	14.0	17.5	21.2	23.8	22.6	19.5	17.2	14.1	12.0	325.6	13.57
16	11.7	12.1	12.2	12.0	11.8	11.5	11.1	10.5	09.4	08.6	08.2	07.6	07.7	07.7	09.3	12.1	15.8	18.3	19.6	18.7	16.9	15.2	14.2	13.4	295.6	12.32
17	12.3	12.3	11.5	10.5	10.6	09.4	08.6	08.2	07.6	07.0	06.2	06.3	09.0	07.7	08.3	10.3	13.1	15.9	17.4	16.7	15.0	13.1	12.3	12.3	262.1	10.92
18 Q	1[illegible].7	11.3	11.5	11.0	11.2	11.2	10.5	10.1	08.7	07.6	07.5	07.5	06.7	06.7	07.7	10.1	13.3	17.2	19.2	18.7	17.0	14.6	12.6	12.1	275.7	11.49
19	11.4	11.2	10.5	10.4	10.5	10.3	10.6	08.6	06.7	05.5	05.9	07.8	06.3	06.0	07.7	11.2	13.1	16.6	18.5	20.7	17.7	15.2	13.0	11.6	267.0	11.13
20	11.[illegible]	11.7	10.5	09.7	10.5	11.1	10.1	09.2	07.8	06.8	06.6	06.5	05.4	08.1	09.5	12.2	16.9	23.3	22.6	22.3	20.3	18.6	19.7	15.0	305.8	12.74
21 D	13.1	10.9	11.2	11.0	10.4	09.6	08.3	07.2	07.5	07.5	06.8	06.8	07.0	08.4	10.5	12.5	17.6	20.8	22.1	21.4	19.3	18.9	17.9	25.4	312.1	13.00
22	12.[illegible]	12.4	11.6	09.9	10.2	10.2	09.5	09.4	09.8	09.3	11.1	10.8	10.5	11.2	12.2	14.1	18.3	20.7	21.1	19.7	18.5	16.7	14.4	13.9	318.3	13.26
23	10.5	07.6	12.8	12.5	11.4	11.4	10.9	10.8	10.1	09.8	09.5	08.5	08.5	09.5	11.5	14.9	19.5	21.4	21.4	20.7	17.9	13.8	12.8	13.1	310.8	12.95
24	13.2	13.2	12.8	11.5	11.3	11.3	10.5	10.1	09.5	08.9	07.6	06.7	08.5	09.6	11.7	15.6	19.4	23.0	23.9	20.9	16.7	13.9	12.8	13.0	315.6	13.15
25	12.8	11.2	10.9	11.3	11.4	11.1	10.4	09.6	08.5	07.9	08.2	07.8	06.9	08.4	10.3	13.5	17.4	20.7	20.8	19.7	16.6	14.0	12.2	10.4	292.0	12.17
26	11.5	11.7	12.2	12.8	12.4	12.2	10.7	08.5	06.7	05.7	04.8	05.7	05.7	06.5	08.7	11.3	14.9	17.9	18.7	16.9	15.0	12.2	11.2	11.6	265.3	11.05
27	11.8	11.5	11.4	11.1	11.0	09.6	09.0	08.4	07.3	05.1	04.1	03.7	06.7	08.6	09.2	13.0	16.0	17.6	18.6	17.3	15.7	12.3	12.2	12.1	263.3	10.97
28	11.[illegible]	10.4	10.5	11.5	12.5	12.7	12.2	08.2	07.8	07.5	07.7	09.0	10.1	10.5	12.1	13.7	16.0	20.7	19.6	17.6	15.8	13.4	12.5	12.2	295.7	12.32
29	11.9	11.9	10.6	11.9	11.9	11.2	09.6	09.4	08.7	07.6	06.9	08.4	07.6	10.5	10.5	12.1	14.3	17.7	18.5	18.2	16.8	15.7	15.1	11.9	289.5	12.06
30	12.[illegible]	11.2	11.4	09.5	10.5	11.0	11.0	09.3	04.8	05.4	06.5	08.0	09.5	10.4	12.2	15.4	17.8	19.1	19.5	17.7	15.2	13.3	12.4	12.8	285.9	11.91
1	13.0	12.6	12.5	11.3	11.1	10.3	09.4	08.7	07.6	06.7	06.0	04.0	06.9	10.1	12.1	14.8	18.0	19.8	19.7	18.6	16.2	14.1	13.1	13.1	289.7	12.07
Sum.	376.0	361.7	346.1	352.8	348.8	331.7	305.5	283.8	271.4	259.0	248.1	237.7	241.2	272.2	325.6	415.3	515.2	604.9	629.0	606.3	538.2	471.6	431.8	397.8	9171.7	
Mean.	12.[illegible]	11.67	11.16	11.38	11.25	10.70	09.85	09.15	08.75	08.35	08.00	07.67	07.78	08.78	10.50	13.40	16.62	19.51	20.29	19.56	17.36	15.21	13.93	12.83		12.33

[illegible] 46 degrees + tabulated value.

Horizontal component, H , 25,000 gammas + tabulated values. October 1957.

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01 D	577	583	595	586	571	574	576	574	568	577	576	569	553	539	518	518	528	552	560	553	551	552	567	577	13494	562.3
02	582	589	601	588	587	588	585	584	583	584	586	582	563	545	530	525	525	542	564	581	586	583	588	590	13759	573.3
03	581	591	594	602	609	611	605	598	594	592	590	590	580	561	537	511	515	530	536	571	575	581	574	580	13806	575.3
04	579	588	592	607	600	597	596	589	595	592	594	584	565	541	519	513	518	525	533	550	563	572	584	585	13677	569.9
05	601	595	598	600	609	608	601	602	604	605	600	588	569	552	540	538	535	542	559	571	577	587	596	599	13972	582.2
06 Q	595	605	611	611	611	611	612	608	606	605	600	589	572	555	535	525	534	550	568	582	593	605	608	613	14096	587.4
07 Q	615	618	619	620	624	629	620	617	622	619	618	608	588	565	556	548	552	564	582	596	608	606	607	608	14409	600.4
08 Q	605	611	619	621	621	620	618	615	614	617	613	603	586	567	549	542	550	567	579	591	599	602	606	614	14329	597.0
09	616	620	626	620	622	624	625	615	607	608	605	595	580	561	540	539	548	573	589	600	590	612	616	617	14346	597.8
10	604	602	605	610	589	585	572	592	577	583	575	561	551	542	531	532	528	538	561	576	594	607	599	608	13818	575.8
11 D	617	618	610	617	599	571	581	576	579	585	593	576	559	546	522	499	507	523	545	563	583	598	600	602	13789	573.7
12	609	612	614	604	598	592	583	580	590	595	598	571	553	543	528	521	528	542	564	584	594	599	586	598	13886	578.6
13 D	598	596	594	578	586	593	576	581	585	588	589	580	566	543	521	514	525	539	566	583	599	586	589	582	13757	573.2
14 D	592	589	589	576	579	570	518	551	566	561	570	563	543	519	500	490	509	532	540	562	547	562	565	593	13286	553.6
15	591	590	594	597	597	598	592	588	588	588	586	570	552	532	516	502	510	518	538	555	571	580	581	584	13618	567.4
16 Q	595	603	608	610	614	614	613	608	603	598	593	583	565	548	531	519	520	534	562	585	600	605	613	615	14039	585.0
17	619	628	632	631	632	625	620	615	615	610	608	595	583	570	551	543	546	560	585	602	611	614	616	615	14422	600.9
18 Q	621	630	625	627	634	628	624	623	620	616	611	601	584	566	552	549	553	570	584	589	603	612	617	616	14455	602.3
19	621	628	637	639	641	642	643	627	623	617	609	595	576	554	538	536	537	558	577	604	601	602	594	607	14406	600.3
20	610	616	622	619	614	614	614	612	616	612	608	595	577	559	549	544	533	539	566	588	603	627	634	588	14259	594.1
21 D	598	608	616	622	624	625	622	615	608	606	599	587	564	538	516	512	512	535	565	601	626	642	622	616	14173	590.5
22	615	616	605	610	600	606	607	600	592	592	592	578	556	538	522	515	522	538	556	578	585	585	575	588	13869	577.9
23	591	587	598	594	595	598	594	600	600	602	592	578	554	529	511	507	520	543	569	592	598	600	592	600	13844	576.8
24	602	609	616	612	614	611	608	610	611	604	595	582	560	544	532	520	528	553	587	586	604	608	609	606	14109	587.9
25	615	616	618	619	620	619	616	615	612	612	608	599	578	554	538	528	534	556	570	591	603	613	616	620	14270	594.6
26	611	615	620	624	629	618	608	602	600	598	598	594	579	555	552	542	546	564	586	592	607	604	604	616	14272	594.7
27	621	626	629	630	637	634	629	626	621	619	612	598	579	578	564	551	551	565	588	600	618	586	599	619	14480	603.3
28	627	642	608	621	627	628	619	593	601	600	598	592	574	556	540	542	549	579	562	591	605	596	604	607	14261	594.2
29	617	642	612	621	620	622	618	622	612	605	601	586	567	549	540	539	548	566	581	596	620	632	609	597	14322	596.8
30	606	612	616	609	617	604	602	602	579	575	576	574	557	540	522	521	531	549	570	580	598	602	598	598	13938	580.8
31	605	612	617	616	611	606	602	601	600	597	592	578	556	547	532	530	539	556	569	590	596	602	602	604	14060	585.8
Sum.	18736	18895	18940	18941	18931	18859	18697	18641	18585	18560	18485	18144	17589	17042	16532	16313	16477	17000	17557	18083	18406	18560	18568	18662	435205	
Mean.	605.0	609.5	611.0	611.0	610.7	608.4	603.1	601.3	599.5	598.7	596.3	585.3	567.4	549.7	533.3	526.2	531.5	548.4	568.4	583.3	593.7	598.7	599.0	602.0		585.0

Vertical component, Z , - (56000 +) gammas

October 1957.

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01 D	1035	1027	999	984	984	994	1002	1003	999	1005	1002	1000	994	984	972	972	982	991	999	1004	1014	1021	1016	1016	25997	999.8
02	1014	1012	1007	978	997	999	997	985	992	992	992	994	990	981	972	986	966	975	988	997	1004	1009	1012	1008	25857	993.2
03	1002	1001	999	999	997	995	992	988	986	987	987	989	982	979	969	957	964	968	978	1001	1004	1014	1011	1010	25759	990.0
04	1010	1010	1001	1000	996	989	987	986	990	987	986	985	985	977	968	968	970	970	979	996	1011	1012	1014	1012	25777	990.7
05	1015	1002	998	995	995	982	982	984	984	982	984	981	972	965	961	955	952	954	989	994	995	998	1002	1002	25587	982.6
06 Q	998	995	995	992	989	986	985	981	985	985	982	977	969	964	959	959	962	969	981	989	997	1000	994	992	25581	982.5
07 Q	992	990	989	987	987	987	979	978	981	978	974	969	961	954	952	952	949	954	966	981	994	991	989	985	25418	976.8
08 Q	987	986	986	985	985	981	978	977	978	978	975	971	965	955	948	946	949	957	964	973	981	985	985	983	25354	975.1
09	985	985	985	979	978	977	973	971	969	970	966	963	959	952	945	949	946	957	972	984	978	997	1007	999	25340	972.5
10	994	990	987	984	971	967	963	958	946	956	962	966	965	962	965	962	955	955	961	975	1000	1014	1000	1002	25556	979.2
11 D	1005	997	985	982	971	957	963	962	970	972	978	962	954	954	951	946	953	959	974	985	1009	1017	1013	1002	25429	976.2
12	1000	994	992	985	980	979	975	973	975	987	981	981	957	952	948	948	949	957	968	984	999	1012	1019	1018	25445	976.9
13 D	1015	1005	970	976	979	950	963	985	991	991	990	982	973	963	954	951	953	956	970	985	1006	1014	1017	1022	25557	981.5
14 D	1027	1000	1005	993	975	890	896	968	997	978	957	961	978	965	954	942	957	967	975	995	998	1015	1017	1052	25460	977.5
15	1019	1005	993	993	986	985	983	987	987	985	984	978	974	972	967	959	955	960	976	997	1012	1016	1016	1011	25703	987.6
16 Q	1005	998	994	991	990	989	988	984	982	978	974	974	968	959	951	947	947	955	972	986	994	995	995	990	25506	979.4
17	990	989	990	986	984	978	976	976	974	973	972	968	964	959	952	949	949	951	964	978	984	986	986	983	25359	975.3
18 Q	984	987	979	978	980	977	975	975	975	973	970	969	967	960	955	951	946	949	956	968	976	985	992	985	25308	971.2
19	984	984	984	982	980	978	974	962	969	971	965	958	956	945	955	955	959	945	955	981	993	997	991	990	25253	968.9
20	986	986	986	982	976	976	975	976	979	975	974	965	957	948	942	957	951	929	956	975	989	1009	1021	1019	25347	972.8
21 D	1011	1001	994	990	986	985	982	979	972	972	969	966	961	952	942	955	937	947	964	988	1019	1045	1049	1060	25602	985.4
22	1043	1006	987	985	984	984	986	977	971	962	956	960	961	959	959	957	969	966	979	992	1005	1012	1005	1002	25551	981.3
23	1021	1004	992	986	984	984	979	982	977	972	964	960	955	951	950	944	948	955	975	990	1007	1019	1004	995	25490	978.8
24	988	986	989	985	985	981	979	980	979	971	965	961	951	948	944	955	953	947	973	984	996	993	990	985	25324	971.8
25	984	987	985	979	979	977	976	975	972	969	964	961	958	950	945	943	945	957	969	986	995	1000	997	998	25349	972.9
26	991	986	984	985	980	974	973	974	975	972	971	969	960	951	947	945	945	950	965	974	988	990	985	985	25311	971.3
27	981	985	979	977	978	975	972	970	969	966	963	958	946	944	954	925	950	958	955	970	994	979	974	982	25142	964.3
28	985	978	969	973	975	974	967	954	986	985	966	961	955	947	945	945	949	964	985	978	987	985	982	980	25211	967.1
29	984	999	976	979	975	973	975	977	964	955	951	947	947	947	944	941	944	952	965	976	995	1008	1008	1001	25271	969.6
30	990	988	984	976	976	969	965	959	958	958	958	959	955	945	940	941	945	959	975	987	998	995	988	979	25203	966.8
31	979	979	980	978	973	970	968	969	967	965	960	952	945	941	940	936	954	944	957	973	985	987	984	980	25144	964.3
Sum.	30996	30856	30641	30518	30456	30258	30224	30245	30255	30206	30122	30045	29878	29685	29502	29394	29456	29657	30059	30520	30899	31100	31055	31004	726971	
Mean. 1000+	998.9	994.7	988.4	984.5	981.8	976.1	975.0	975.6	976.0	974.4	971.7	969.2	963.8	957.6	951.7	948.2	949.5	956.7	969.6	984.5	996.7	3.2	1.8	0.1		977.1

Declination „ D , east of north, 17 degrees + tabulated values in minutes of arc. November 1957.

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	13.1	12.8	12.8	11.6	10.1	10.9	08.4	08.6	08.0	07.6	07.5	07.1	07.0	08.5	11.8	16.5	19.2	20.2	19.1	17.4	14.5	12.4	11.2	12.0	288.3	12.01
02	13.0	13.1	13.0	12.6	11.5	10.4	09.4	08.6	07.7	07.3	07.2	07.0	06.7	07.0	09.6	14.5	18.5	20.3	19.6	17.5	15.0	13.7	13.5	13.0	289.7	12.07
03	13.4	11.3	13.1	13.9	13.5	13.0	12.7	11.1	10.4	09.4	09.6	09.3	10.1	12.8	15.1	16.3	20.2	22.7	19.7	17.6	14.8	13.0	12.1	12.0	327.1	13.63
04 Q	12.1	12.2	12.4	12.5	12.2	11.3	10.3	08.6	07.0	05.9	05.6	04.8	04.8	06.1	08.5	12.1	15.2	17.6	17.7	16.5	15.1	13.3	13.2	13.2	268.2	11.18
05 Q	12.8	12.2	11.3	11.3	11.3	10.4	09.4	08.5	07.5	05.8	05.1	05.6	06.4	07.6	09.1	11.6	14.6	16.8	17.7	17.9	16.6	15.0	14.4	14.2	273.1	11.38
06	13.8	12.5	11.4	10.9	10.4	09.5	09.4	08.3	06.9	06.5	07.1	07.6	07.7	09.6	11.1	14.1	16.8	18.1	20.6	23.2	23.9	22.4	17.4	16.7	315.9	13.16
07	16.5	13.1	13.9	14.0	12.8	11.3	07.4	08.5	07.1	08.8	08.2	07.3	10.5	13.6	17.8	19.9	19.7	21.4	20.6	18.5	15.1	12.9	12.3	13.2	326.4	13.60
08	13.8	14.1	13.9	13.3	13.0	11.7	10.5	07.8	04.8	06.9	06.7	07.5	08.5	13.0	14.5	17.6	19.4	21.3	21.4	19.0	18.0	15.8	14.1	13.1	319.7	13.32
09 D	13.0	14.8	15.4	12.1	14.5	10.1	06.4	07.4	08.7	08.1	07.4	08.5	08.4	13.0	17.3	16.8	17.5	21.4	23.5	21.3	18.7	17.3	15.6	14.1	331.5	13.81
10	14.1	13.8	14.4	14.5	12.9	09.2	09.4	07.8	09.2	07.6	08.1	09.2	10.2	11.3	13.2	17.7	21.1	19.2	21.3	20.0	17.8	16.7	15.2	14.6	328.5	13.69
11	14.5	14.0	14.5	11.5	10.3	08.1	07.9	06.7	07.6	07.7	09.4	07.8	07.7	11.2	13.9	15.6	17.4	18.6	19.3	19.5	18.4	15.2	13.0	12.6	302.4	12.60
12	12.1	10.6	12.4	12.7	12.2	10.4	08.5	08.3	07.4	07.6	05.2	07.4	08.3	13.1	17.8	18.6	21.3	20.6	20.7	19.6	17.0	15.1	14.0	13.1	314.0	13.08
13	12.6	13.7	14.0	13.1	12.1	11.2	10.1	08.6	06.7	05.4	05.5	05.0	08.7	10.4	12.1	13.8	17.0	19.7	19.3	18.6	18.7	17.3	16.5	15.6	305.7	12.74
14	12.8	11.6	10.3	11.8	12.2	11.1	09.8	09.3	07.2	06.7	03.9	03.3	03.3	08.2	12.2	15.7	18.7	19.8	18.4	17.3	15.2	14.1	13.1	13.2	279.0	11.63
15	13.5	14.0	10.2	09.3	11.2	11.4	10.4	09.5	09.4	08.0	08.5	07.6	08.3	10.6	14.5	17.7	20.5	22.4	20.4	18.5	17.1	14.8	14.0	14.0	315.8	13.16
16	13.7	13.0	12.7	12.8	12.7	12.2	10.3	09.1	08.2	07.1	06.8	07.5	09.5	10.9	13.1	13.9	15.7	18.2	17.6	16.0	13.3	13.1	13.6	13.8	294.6	12.28
17 Q	13.0	13.0	13.0	13.1	12.3	11.4	10.3	08.4	07.0	06.7	06.4	07.2	07.6	09.4	12.3	13.5	14.0	13.9	14.0	13.6	12.6	12.4	12.6	12.5	270.2	11.26
18	10.7	11.5	13.1	13.2	11.7	10.5	09.3	03.9	02.9	04.3	07.0	08.5	11.5	16.2	18.4	21.3	20.2	19.7	19.3	16.8	14.0	13.1	13.0	13.8	303.9	12.66
19	13.3	13.2	13.2	12.2	12.8	12.6	09.8	09.6	08.8	07.0	06.7	07.8	09.4	10.3	11.6	13.1	15.1	15.9	15.8	15.6	14.9	13.9	13.1	13.2	288.9	12.04
20	13.2	13.1	12.3	12.2	11.3	10.3	08.6	07.2	05.8	05.8	06.0	08.2	10.1	12.3	14.0	17.7	19.8	19.3	18.2	15.9	14.8	12.2	12.9	14.0	295.2	12.30
21 Q	14.2	13.3	12.3	11.9	11.5	09.9	08.5	07.6	06.5	05.5	05.0	06.3	07.4	08.9	12.7	15.1	16.7	16.3	15.0	13.9	13.9	13.9	14.0	14.3	274.4	11.43
22 Q	15.0	14.8	13.9	13.3	12.5	11.4	10.2	06.7	04.4	03.9	04.7	06.9	09.5	11.2	13.1	16.0	18.5	18.2	15.9	13.9	13.0	13.1	13.2	14.0	287.3	11.97
23	13.8	12.7	12.4	12.2	11.1	09.5	09.3	06.2	04.1	05.9	05.0	05.4	09.5	12.2	14.9	16.1	18.5	19.7	18.3	16.0	13.9	12.3	12.1	11.4	278.7	11.61
24	12.2	11.9	12.0	11.5	09.9	08.8	07.7	04.8	03.7	03.6	06.8	08.2	09.4	10.3	12.1	14.4	16.4	17.6	18.5	17.1	15.4	13.8	13.0	13.3	272.4	11.35
25 D	12.3	11.5	10.2	09.4	10.1	11.5	10.3	08.8	00.7	02.4	04.7	07.5	11.1	12.2	14.6	18.5	21.8	23.2	23.4	20.4	21.0	19.5	16.7	14.9	316.7	13.20
26 D	10.2	12.2	11.6	11.4	14.9	15.6	10.8	08.4	10.3	06.8	03.9	04.7	08.7	10.6	12.9	19.9	22.3	25.5	25.3	25.8	27.0	19.8	16.7	13.7	347.0	14.46
27 D	13.2	14.2	17.4	13.1	13.5	15.3	16.5	11.3	08.0	12.3	14.0	14.9	14.0	14.5	18.1	22.8	24.2	24.1	24.2	21.9	19.7	17.9	14.7	14.2	394.0	16.42
28 D	15.0	14.9	13.1	13.7	15.9	16.6	18.6	16.3	12.3	12.4	12.1	10.3	09.3	12.6	15.7	18.5	19.7	22.7	22.1	21.5	19.3	16.2	13.6	12.3	374.9	15.62
29	12.3	13.2	13.1	14.9	14.1	12.4	12.0	11.9	11.2	11.0	07.3	08.6	10.3	12.8	13.9	17.8	20.4	20.3	18.6	16.7	13.9	12.1	10.9	09.6	319.3	13.31
30	10.4	10.6	12.0	11.7	11.2	12.8	13.1	11.2	09.4	06.7	06.1	06.2	06.0	08.6	11.6	15.2	17.7	18.7	18.5	17.3	16.3	15.6	14.8	13.3	295.2	12.30
Sum.	395.8	386.9	385.3	371.5	365.5	338.8	305.5	259.0	218.9	208.7	205.3	223.2	259.9	329.0	407.5	492.3	558.1	593.6	584.0	544.8	498.9	447.9	414.7	405.1	9198.2	
Mean.	13.19	12.90	12.84	12.38	12.18	11.29	10.18	08.63	07.30	06.96	06.84	07.44	08.66	10.97	13.58	16.41	18.60	19.79	19.47	18.16	16.63	14.93	13.82	13.44		12.78

Horizontal component, H , 23,000 gammas + tabulated values. November 1957.

Date. U.T.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	609	611	616	620	611	609	594	599	602	589	582	570	549	527	508	512	534	549	565	584	585	594	597	605	13919	580.0
02	611	624	622	622	625	615	609	611	615	616	610	592	567	545	525	521	538	561	585	594	595	615	625	612	14245	593.5
03	600	602	595	605	606	608	608	605	608	605	614	587	555	545	535	531	542	554	551	572	590	595	602	603	14014	583.9
04 Q	605	610	612	610	610	611	611	611	607	604	595	576	555	534	526	530	544	567	579	588	600	592	590	598	14061	585.9
05 Q	610	619	622	624	622	621	618	617	615	609	597	585	569	558	548	546	561	581	591	607	605	607	612	616	14358	598.3
06	620	624	625	626	629	628	651	628	627	615	605	591	571	560	555	552	565	585	647	677	640	641	645	615	14692	612.2
07	608	563	539	561	561	550	541	551	541	551	552	551	518	501	501	515	530	542	551	568	584	585	579	581	13204	550.2
08	587	595	596	589	597	590	595	593	594	596	581	559	541	529	508	494	512	537	560	575	588	605	595	596	13722	571.8
09 D	595	607	603	588	581	560	550	555	577	571	556	547	524	505	507	520	534	552	569	577	581	583	585	606	13533	563.9
10	581	593	599	606	600	564	572	566	568	564	553	553	537	519	506	502	514	521	557	559	574	595	600	594	13497	562.4
11	602	609	627	605	593	585	583	579	587	579	589	571	545	525	536	532	544	550	570	570	572	588	620	605	13862	577.6
12	589	600	597	597	597	602	593	591	588	582	576	556	525	517	515	517	527	544	567	575	594	610	610	605	13772	573.8
13	599	595	604	603	599	597	597	598	595	589	571	554	538	535	526	529	542	554	559	578	610	619	625	628	13942	580.9
14	642	651	629	633	643	637	629	626	614	615	606	590	562	540	525	525	523	560	563	579	598	615	605	595	14297	595.7
15	609	626	620	620	606	604	600	591	606	596	585	562	537	518	511	521	527	558	564	580	594	594	606	611	13946	581.1
16	614	622	622	626	626	622	615	612	610	606	594	573	556	547	546	552	562	585	576	597	587	575	606	611	14242	593.4
17 Q	618	618	621	625	625	620	612	609	602	595	585	571	557	552	553	557	565	577	566	588	596	605	618	639	14270	594.6
18	621	622	622	606	606	599	594	570	579	590	570	564	552	520	521	550	543	552	547	564	574	586	581	589	13802	575.1
19	598	609	611	615	620	619	616	611	601	589	577	553	554	516	519	528	537	555	575	584	591	587	605	602	13953	581.4
20	612	620	619	617	612	606	604	610	605	593	584	572	545	534	530	537	550	560	573	584	586	591	598	610	14052	585.5
21 Q	618	619	617	612	608	605	610	607	602	594	574	551	536	535	546	564	584	595	598	604	609	602	599	608	14197	591.5
22 Q	609	619	627	631	632	629	628	623	618	606	589	569	552	540	547	559	563	580	582	587	603	615	613	620	14339	597.5
23	624	631	630	636	632	628	635	630	630	616	601	586	572	559	552	558	570	584	585	607	613	616	625	654	14574	607.3
24	639	648	650	662	663	646	635	624	617	613	603	594	582	568	555	551	565	574	589	588	600	606	624	617	14611	608.8
25 D	629	649	656	650	652	652	639	609	579	564	549	537	527	522	525	526	532	545	568	557	572	585	595	609	14006	583.6
26 D	610	606	635	620	637	651	636	608	603	588	586	578	578	568	547	537	558	528	515	565	656	619	564	595	14188	591.2
27 D	580	567	582	580	571	551	545	541	552	550	545	571	542	510	497	491	501	486	515	512	534	562	569	571	13001	541.7
28 D	580	594	596	585	596	603	599	554	559	559	560	557	537	516	508	507	509	534	528	549	544	558	557	582	13371	557.1
29	595	598	605	618	603	602	596	588	587	591	587	579	547	522	513	504	506	519	546	566	580	592	592	602	13758	572.4
30	604	622	628	614	616	625	625	617	612	599	585	567	555	544	530	522	537	559	573	584	595	605	604	618	14152	588.8
Sum.	18218	18571	18425	18416	18377	18235	18118	17934	17878	17730	17455	17044	16457	16009	15815	15871	16219	16646	17012	17399	17748	17932	18040	18191	419540	
Mean.	607.3	612.4	614.2	615.9	612.6	607.8	603.9	597.8	595.9	591.0	581.8	568.1	548.6	533.6	527.2	529.0	540.6	554.9	567.1	580.0	591.6	597.7	601.3	606.4		582.7

Vertical component, Z , - (56000 +) gammas

November 1957

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01	980	977	977	976	970	968	964	971	973	967	958	955	953	945	930	928	934	941	957	971	977	985	985	982	23124	963.5
02	977	980	977	975	973	968	969	969	966	962	954	947	940	933	924	914	918	933	952	964	971	986	995	990	23036	959.8
03	987	988	971	971	970	970	968	961	952	947	941	939	929	927	927	925	930	945	957	975	989	989	989	984	23029	959.5
04 Q	981	981	979	977	975	975	975	976	971	967	963	960	954	946	937	933	938	947	956	969	983	979	975	973	23172	965.5
05 Q	978	979	979	976	972	971	969	968	965	961	953	943	935	929	926	925	927	933	945	963	982	988	970	968	22968	957.0
06	987	988	989	988	988	985	984	982	959	949	941	937	930	925	924	923	930	938	962	991	981	1020	1050	1017	23108	962.8
07	1013	982	987	986	986	977	974	982	976	978	981	974	967	954	949	960	969	973	980	994	1000	997	986	979	23483	978.5
08	980	981	981	981	980	975	968	964	960	955	957	955	950	954	922	924	940	956	972	982	992	1015	1011	1013	23158	964.9
09 D	1005	999	987	976	966	962	967	970	974	971	971	963	945	951	937	946	954	954	968	992	1005	1012	1015	1024	23592	974.7
10	1000	993	988	985	956	958	968	970	959	961	958	958	955	948	937	939	943	954	976	978	986	1000	1005	997	23247	968.6
11	995	991	990	977	987	966	972	969	965	945	939	941	951	929	942	940	941	947	961	970	981	997	1022	1008	23184	966.0
12	995	995	984	979	977	974	972	973	969	952	942	940	928	928	934	937	940	958	971	978	990	998	1001	998	23213	967.2
13	991	982	980	977	975	975	973	967	962	954	955	946	942	943	940	936	932	942	951	964	983	980	986	986	23120	963.3
14	995	995	985	977	979	973	969	973	968	965	965	952	937	927	920	918	927	951	959	969	987	995	995	978	23153	964.7
15	981	986	971	961	960	965	965	954	965	959	952	946	936	928	925	924	926	942	953	967	983	985	989	985	23008	958.7
16	980	985	980	975	971	968	967	965	963	958	953	948	944	938	935	933	934	950	959	980	975	972	972	972	23075	961.5
17 Q	978	974	973	972	970	967	966	966	960	953	951	947	939	933	925	929	939	947	953	954	957	960	967	969	22969	957.0
18	986	988	977	962	965	960	944	939	945	951	942	925	918	909	910	924	938	950	959	973	978	981	971	973	22870	952.9
19	980	987	985	981	976	974	969	967	962	957	951	942	939	936	939	946	952	954	964	970	976	974	986	978	23147	964.5
20	979	980	976	972	968	964	962	967	965	956	946	942	933	930	924	925	933	949	961	969	976	984	984	975	23018	959.1
21 Q	974	972	970	967	965	965	968	964	958	953	942	934	928	924	921	925	938	950	954	957	967	966	964	966	22894	953.9
22 Q	965	967	972	972	971	969	969	967	962	948	936	926	920	918	924	928	943	954	961	965	962	964	963	962	22887	953.6
23	964	970	968	969	965	963	965	951	963	947	952	915	912	912	913	916	928	940	949	959	965	966	967	966	22795	949.7
24	970	975	970	972	966	960	957	953	946	937	928	925	924	920	914	914	921	951	947	954	966	964	974	968	22756	948.2
25 D	976	979	978	967	964	958	943	908	884	900	915	915	914	908	907	906	917	950	953	952	979	993	992	998	22636	943.2
26 D	1001	985	990	977	977	973	971	955	945	941	936	951	941	952	915	927	924	912	939	976	1046	1091	1050	1040	25253	968.9
27 D	1017	989	969	941	961	963	946	929	954	943	943	947	952	950	945	959	945	949	972	987	1007	1035	1043	1052	25258	968.3
28 D	1022	1015	1008	984	982	984	977	950	957	945	942	946	949	943	943	952	954	966	974	997	1000	1015	1016	1012	25413	975.5
29	1009	999	995	989	989	989	984	984	967	964	955	950	939	950	954	956	940	956	972	981	985	989	987	991	25224	967.7
30	985	991	987	976	971	972	972	968	965	956	951	943	937	924	917	917	926	940	951	958	965	970	965	973	22980	957.5
Sum.	29609	29529	29381	29216	29116	29021	28977	28852	28758	28570	28429	28272	28101	27954	27838	27891	28080	28392	28791	29159	29472	29729	29750	29701	692548	
Mean.	987.0	984.3	979.4	973.9	970.5	967.4	965.9	961.1	958.6	952.3	947.6	942.4	936.7	931.1	927.9	929.7	936.0	946.4	959.7	972.0	982.4	991.0	991.7	990.0		961.9

Declination, D , east of north , 17 degrees + tabulated values in minutes of arc.

December 1957.

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01 D	13.1	13.2	12.8	11.4	09.2	07.7	05.9	04.8	06.6	05.9	04.7	06.0	07.2	12.5	15.0	16.5	18.6	18.6	17.7	17.6	16.7	16.9	15.5	14.9	289.0	12.04
02	14.6	11.4	11.8	12.7	12.3	12.8	11.2	09.6	06.0	04.5	02.9	06.9	09.5	12.8	16.7	18.9	19.7	20.5	20.7	18.6	17.8	17.1	15.7	14.9	318.0	13.25
03	14.4	13.9	13.4	12.2	11.2	10.5	09.7	05.7	04.1	03.5	06.6	09.0	08.1	11.4	15.0	15.9	17.7	18.5	18.3	16.8	15.8	14.3	14.0	13.3	293.6	12.23
04	12.8	13.1	12.4	11.1	10.0	09.3	07.7	06.5	04.6	04.0	05.1	08.6	10.3	10.9	11.7	12.2	13.9	15.1	16.6	17.3	18.0	17.0	15.9	14.3	278.1	11.59
05	14.9	10.7	12.1	12.0	08.4	04.6	02.2	02.0	03.2	07.3	07.9	07.0	09.4	12.8	15.7	16.7	19.5	22.1	21.7	23.3	21.0	19.6	19.1	15.1	308.3	12.85
06 D	13.1	14.6	14.9	15.0	10.6	07.0	06.8	05.7	07.9	07.8	02.7	08.6	14.0	15.9	17.0	21.4	23.9	23.5	22.2	21.3	19.7	17.8	16.7	15.1	339.4	14.14
07	14.9	14.2	14.4	12.9	11.3	08.2	05.6	59.2*	02.8	02.7	02.8	05.8	08.3	17.5	15.9	16.1	19.4	21.2	21.9	19.4	17.1	16.6	15.6	14.9	298.7	12.45
08	13.8	14.0	14.8	13.7	12.3	10.9	08.3	06.5	05.5	06.6	06.9	06.8	08.1	10.2	12.6	15.8	17.6	18.4	19.2	17.7	16.7	15.4	13.8	12.7	299.8	12.49
09	10.5	11.4	11.8	11.5	10.1	07.4	06.0	05.7	02.9	01.3	01.2	01.2	10.1	11.1	15.0	16.6	19.4	20.3	20.3	18.9	18.7	16.6	12.5	12.3	272.8	11.37
10	12.2	12.2	11.4	07.6	10.2	10.4	09.1	08.7	04.9	03.8	03.6	06.0	09.7	13.5	16.1	19.4	23.6	24.6	25.1	25.1	23.0	19.2	16.5	17.3	333.2	13.88
11 D	15.4	15.4	12.6	13.7	10.3	04.0	00.4	08.3	01.0	57.6*	02.0	04.8	08.4	11.3	15.8	20.1	21.2	24.1	24.1	23.5	21.3	18.6	14.8	16.3	301.0	12.54
12 D	15.0	15.5	16.6	15.9	14.6	14.1	12.4	09.2	07.3	08.4	08.3	09.9	13.0	14.0	16.8	19.8	23.0	23.0	22.5	19.6	17.3	14.6	13.1	13.2	356.1	14.84
13	13.0	13.1	12.7	12.7	12.0	11.3	10.7	08.2	05.7	06.6	12.2	09.6	11.1	13.2	13.8	17.8	20.0	19.6	20.3	18.6	17.1	15.6	14.7	14.1	323.7	13.49
14	13.5	12.3	10.7	10.9	10.4	10.3	10.5	07.4	06.8	06.9	06.9	06.9	06.7	08.4	11.5	14.7	18.0	18.6	17.7	16.9	15.3	13.9	12.9	12.6	280.6	11.69
15	12.9	12.1	12.1	11.8	11.9	11.2	09.8	06.6	04.8	07.2	06.9	06.5	11.1	11.3	13.9	19.5	17.5	17.5	17.6	16.6	15.9	13.1	13.3	13.2	292.1	12.17
16	11.1	10.4	11.5	11.2	10.4	09.3	09.4	07.8	06.1	05.6	06.6	09.2	10.6	11.5	13.1	15.8	18.5	20.4	20.3	16.5	16.0	13.9	12.2	13.1	290.7	12.11
17	13.0	13.2	12.3	12.3	10.1	11.9	13.5	07.2	05.7	02.8	02.9	05.6	09.0	12.7	15.5	17.6	18.4	19.8	20.4	17.4	14.8	13.8	12.6	10.5	291.0	12.13
18	12.1	13.3	12.5	10.4	11.4	11.2	10.2	08.1	06.5	05.7	05.8	08.3	09.4	10.6	13.0	16.1	17.8	18.7	18.1	16.8	15.0	12.1	10.8	11.1	285.0	11.88
19	11.4	12.1	12.4	12.1	11.4	10.3	07.9	07.0	02.0	00.0	59.7*	02.9	07.0	10.8	13.2	15.7	17.0	17.5	20.2	19.6	17.1	17.2	14.1	15.1	273.7	11.40
20	14.1	14.7	14.1	12.5	14.6	09.3	09.9	07.6	06.9	05.6	05.5	07.0	07.2	11.4	12.9	15.0	17.6	19.5	21.5	19.5	17.6	13.8	13.0	12.2	303.0	12.63
21	13.3	13.0	13.1	13.0	12.1	09.2	08.3	04.7	06.6	05.6	07.2	07.8	10.4	11.3	12.4	14.7	17.6	18.8	18.5	17.5	15.7	13.1	12.2	12.1	288.2	12.01
22 Q	11.7	11.2	12.2	13.2	13.0	12.2	10.4	08.4	06.7	06.4	07.0	09.2	11.6	12.6	14.0	16.6	16.4	20.1	20.5	18.6	16.9	15.6	14.4	15.1	315.8	13.08
23 Q	12.4	11.9	11.5	11.3	11.1	10.6	10.0	08.5	06.7	04.8	04.7	06.4	07.9	10.5	11.1	12.5	15.2	16.5	15.7	14.8	13.8	12.5	11.4	10.5	262.5	10.95
24	10.7	11.1	11.1	11.0	10.8	09.7	09.1	06.9	05.4	05.3	02.8	05.6	06.1	09.6	13.9	16.5	18.1	19.4	19.3	18.5	17.4	15.9	15.6	15.1	279.1	11.63
25	12.9	12.6	12.1	12.0	09.0	10.6	11.2	06.9	05.5	04.2	05.1	05.9	08.0	11.9	14.1	15.1	18.4	20.3	23.2	21.1	17.6	16.9	15.8	15.3	301.8	12.58
26	12.9	12.8	12.7	12.3	09.9	08.2	05.7	04.5	04.4	05.1	07.5	07.4	05.8	10.0	14.8	17.4	16.6	20.6	23.0	20.6	17.8	14.9	12.0	09.8	286.5	12.02
27 Q	10.1	10.5	11.2	11.7	11.8	11.1	10.5	08.0	05.8	04.2	04.5	07.0	09.7	11.9	14.9	15.4	16.1	18.4	19.5	18.9	15.3	12.7	10.1	09.0	278.1	11.59
28 Q	11.1	11.9	12.8	12.5	12.8	12.7	11.1	09.1	06.2	04.8	03.9	05.0	06.5	10.7	12.6	14.4	16.9	17.8	17.3	15.7	13.9	12.9	13.7	13.8	281.9	11.75
29 Q	13.1	12.4	12.0	11.5	11.1	09.1	08.5	07.4	06.8	06.4	06.3	06.0	09.0	10.9	13.0	14.4	16.6	18.5	17.7	16.6	15.9	13.8	12.4	12.5	281.7	11.74
30	12.7	12.8	12.6	13.1	13.2	14.5	12.2	08.8	06.3	04.7	04.2	05.9	11.2	09.1	12.6	16.0	18.5	18.4	18.4	16.6	15.6	13.9	13.0	12.9	298.2	12.43
31 D	12.4	12.0	11.5	07.4	05.6	04.5	02.4	57.6*	57.0*	03.6	03.4	10.6	11.4	12.1	18.8	23.9	26.6	29.1	29.5	29.8	24.4	20.3	17.9	17.0	328.8	13.70
Sum.	398.6	390.8	390.2	370.4	343.6	303.7	266.6	199.6	157.7	149.1	157.6	210.2	287.6	362.4	442.4	518.5	583.3	620.4	629.0	590.2	534.2	479.5	431.5	413.1	9230.2	
Mean.	12.86	12.61	12.59	11.95	11.08	09.80	08.60	06.44	05.09	04.81	05.08	06.78	09.28	11.69	14.27	16.73	18.82	20.01	20.29	19.04	17.23	15.47	13.92	13.33		12.41

* 16 degrees + tabulated value.

Horizontal component, H , 25,000 gammas + tabulated values. December 1957.

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01 D	623	639	609	618	629	635	644	605	585	579	570	568	551	543	539	557	538	545	574	589	594	615	594	589	14111	588.0
02	612	616	606	605	601	618	615	596	585	577	562	557	541	527	514	527	540	545	555	549	566	595	592	592	13791	574.6
03	615	616	621	615	607	605	601	592	588	575	570	567	548	532	538	539	544	551	547	571	592	604	610	615	13957	581.5
04	614	612	611	604	598	599	604	594	593	587	564	564	551	545	546	551	562	560	579	589	606	617	620	605	14075	586.5
05	618	611	599	605	598	584	581	590	575	571	565	536	514	514	527	537	567	586	567	605	577	585	606	622	13840	576.7
06 D	619	618	615	601	585	579	575	575	581	578	545	536	549	533	522	515	520	537	546	578	580	587	591	596	13657	569.0
07	609	609	607	608	605	595	589	567	574	585	577	554	522	536	540	530	532	549	577	578	586	603	597	593	13818	575.8
08	599	605	614	615	615	598	597	595	595	586	577	565	549	535	522	527	547	561	589	587	599	620	615	611	14011	583.8
09	614	617	615	612	603	598	599	595	588	584	571	548	546	530	514	526	529	554	558	560	589	580	582	589	13799	575.0
10	607	615	629	610	615	613	606	598	587	581	574	556	539	522	507	505	527	544	559	566	606	621	640	604	13953	581.4
11 D	617	637	632	626	636	622	590	609	580	578	555	538	528	524	512	528	551	584	585	579	596	639	585	586	14017	584.0
12 D	589	597	600	599	604	608	595	581	572	557	560	560	547	527	516	517	529	556	586	571	567	583	591	585	13695	570.6
13	604	611	618	625	607	601	604	597	577	568	593	597	568	549	536	511	529	558	565	570	570	584	592	600	13914	579.8
14	599	604	612	609	612	616	613	605	597	585	581	574	565	553	543	549	560	565	563	572	574	589	598	602	14040	585.0
15	615	625	625	626	626	618	613	607	600	601	599	586	572	559	525	529	550	567	560	572	577	595	606	613	14163	590.1
16	617	624	616	620	619	620	613	600	593	585	579	573	566	556	549	552	560	566	590	582	614	637	613	606	14250	593.8
17	624	614	627	626	620	626	618	595	572	570	556	546	540	535	530	528	545	575	571	587	601	618	637	614	14064	586.0
18	604	611	624	610	608	615	610	606	593	576	564	562	556	548	544	543	556	575	589	601	610	617	621	614	14155	589.8
19	611	607	625	636	624	619	614	609	594	590	601	590	574	574	572	572	585	584	617	617	588	615	611	606	14431	601.3
20	595	610	625	627	628	604	612	591	572	558	553	533	525	524	518	520	536	558	584	590	611	634	606	616	13928	580.3
21	590	608	615	621	629	607	598	603	594	575	566	547	538	536	542	546	555	557	585	600	606	591	580	602	13989	582.9
22 Q	615	612	606	609	607	605	599	594	586	574	557	541	538	530	521	529	538	552	568	571	585	592	600	603	13831	576.3
23 Q	612	621	624	627	624	622	620	617	607	597	595	581	562	547	534	528	542	564	573	584	591	592	601	611	14174	590.6
24	618	618	622	621	616	626	625	615	605	599	577	550	544	539	542	555	571	581	597	604	598	612	600	612	14245	593.5
25	618	623	632	647	632	638	626	620	611	592	578	570	559	538	547	555	563	576	599	574	596	626	598	601	14319	596.6
26	608	611	620	636	629	615	608	605	592	572	570	561	540	510	520	525	535	554	569	569	577	595	604	621	13940	580.8
27 Q	600	608	620	617	610	601	604	597	593	587	574	556	549	537	526	531	544	571	595	600	579	582	608	600	13989	582.9
28 Q	594	604	613	617	615	618	622	620	609	599	587	570	559	547	544	552	568	589	604	616	610	593	606	616	14274	594.8
29 Q	608	612	616	624	624	624	629	624	613	604	585	568	557	551	545	552	570	575	586	598	616	625	628	607	14341	597.5
30	601	621	615	617	631	651	629	609	601	588	593	557	564	548	530	542	548	561	572	597	609	619	621	631	14245	593.5
31 D	636	620	630	605	591	590	567	550	527	541	544	540	513	468	475	489	499	522	534	30	598	608	584	588	13377	557.4
Sum.	18899	19052	19142	19134	19044	18963	18818	18547	18237	17999	17738	17351	16974	16613	16436	16541	16958	17401	17841	18096	18568	18769	18740	18752	434393	
Mean.	609.6	614.6	617.5	617.2	614.3	611.7	607.0	598.3	588.3	580.6	572.2	559.7	547.5	535.9	530.2	533.6	546.4	561.3	575.5	583.7	592.5	605.5	604.5	604.9		585.9

Vertical component , Z , - (56000 +) gammas

December 1957

U.T. Date.	0-1	1-2	2-3	3-4	4-5	5-6	6-7	7-8	8-9	9-10	10-11	11-12	12-13	13-14	14-15	15-16	16-17	17-18	18-19	19-20	20-21	21-22	22-23	23-24	Sum.	Mean.
01 D	976	991	977	975	968	971	973	953	957	957	939	929	925	925	925	930	937	945	939	965	971	989	981	971	22957	955.7
02	968	991	977	975	967	964	959	954	941	946	940	930	923	919	914	927	951	940	948	951	961	981	981	974	22854	952.3
03	981	977	977	975	969	964	952	958	946	942	952	927	917	915	926	952	959	948	961	963	973	985	984	984	22905	954.3
04	981	974	971	964	960	960	956	943	949	950	937	938	954	929	929	929	955	940	945	948	967	984	988	975	22884	953.5
05	981	989	975	970	957	952	951	941	924	918	924	927	925	921	919	921	957	941	945	972	979	978	992	1011	22850	952.1
06 D	995	985	975	966	957	951	959	980	950	957	926	921	939	923	921	911	987	955	966	985	983	1000	998	990	22978	957.4
07	989	982	978	975	971	968	957	958	941	922	916	917	914	928	929	923	928	940	959	968	971	982	980	980	22856	952.3
08	985	980	976	974	968	959	960	950	955	949	948	948	944	954	921	924	933	948	963	965	975	990	987	983	23024	959.3
09	986	980	977	973	965	959	957	952	948	956	955	952	951	919	915	916	926	944	949	954	977	982	985	979	22876	953.2
10	979	975	985	974	969	966	961	953	940	941	937	926	919	919	918	917	933	948	961	980	1002	1020	1032	1015	23070	961.3
11 D	1007	1006	991	987	981	954	945	920	950	941	958	926	923	919	909	921	929	948	960	987	975	1050	1007	1006	22965	956.9
12 D	997	990	990	976	974	966	955	956	957	948	946	949	941	954	926	937	952	964	961	978	979	994	994	988	23134	963.9
13	987	985	982	976	962	956	960	959	949	941	950	936	928	923	914	910	927	941	955	959	964	973	971	969	22858	952.4
14	970	972	980	975	970	969	963	955	954	951	943	959	954	919	919	920	925	927	956	947	954	967	974	974	22835	951.5
15	979	977	968	964	960	952	948	942	959	955	929	922	915	907	882	904	931	956	942	952	955	963	968	986	22634	943.1
16	969	973	965	967	962	956	952	945	941	954	952	920	915	908	908	914	921	955	960	959	969	983	980	985	22718	946.6
17	975	964	975	961	956	965	944	951	939	939	956	926	917	912	912	920	952	942	944	958	957	952	986	979	22732	947.2
18	971	964	965	956	954	958	956	954	945	952	927	918	915	914	911	915	925	952	945	950	958	966	971	965	22661	944.2
19	967	959	964	960	953	953	955	946	954	950	924	915	900	904	906	909	915	920	942	952	960	980	980	979	22612	942.2
20	975	979	985	978	964	944	955	949	941	954	925	910	910	918	919	916	919	926	943	955	976	1004	975	976	22774	948.9
21	954	966	964	967	962	959	926	955	948	942	959	927	922	922	924	921	918	925	948	964	975	972	968	968	22694	945.6
22 Q	977	973	966	962	961	959	958	954	950	943	928	919	922	922	924	922	927	953	942	951	967	956	953	956	22715	946.5
23 Q	968	972	970	968	961	955	954	955	948	957	955	922	916	921	915	915	921	929	941	948	953	956	957	959	22670	944.6
24	962	959	956	952	947	950	951	946	959	955	927	915	909	906	903	902	915	927	941	951	952	963	951	956	22515	938.0
25	958	960	960	966	957	956	943	941	958	929	920	914	912	909	916	915	916	918	934	940	969	998	977	966	22612	942.2
26	966	960	958	964	946	956	957	941	941	955	917	922	909	887	880	885	902	910	928	949	958	964	968	968	22447	935.3
27 Q	953	955	961	958	949	946	947	945	945	943	953	919	911	911	918	927	925	950	949	960	958	959	978	971	22649	943.7
28 Q	955	958	958	956	951	951	956	955	949	943	936	920	914	910	911	916	921	924	952	942	955	945	948	944	22550	939.6
29 Q	941	944	945	951	949	947	947	941	954	929	925	914	909	907	906	909	910	919	950	942	959	974	978	972	22480	936.7
30	962	967	959	954	955	959	959	927	932	923	908	907	921	907	902	910	907	925	959	949	958	963	961	950	22492	937.2
31 D	961	968	967	946	941	942	911	886	868	864	875	883	890	884	895	912	919	950	970	1009	1065	1082	1068	1067	22721	946.8
Sum.	30185	30169	30085	29943	29736	29627	29485	29252	29152	28984	28795	28612	28491	28576	28525	28450	28655	29004	29415	29743	30067	30445	30408	30318	705698	
Mean.	973.7	973.2	970.5	965.9	959.2	955.7	951.1	943.6	940.4	935.0	928.8	923.0	919.1	915.4	913.7	917.1	924.4	935.6	948.9	959.5	969.9	982.0	980.9	978.0		946.5