

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

January 1961

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.	
1	66.1	65.6	65.6	65.1	65.0	63.2	60.7	60.3	60.3	59.3	59.6	60.4	62.5	64.1	66.6	68.4	70.4	71.0	70.8	69.8	69.4	69.1	68.3	67.8	1569.4	65.39	
2 Q	67.2	66.6	66.2	65.8	65.0	64.1	63.1	61.7	59.7	59.6	59.7	63.0	63.2	64.2	66.5	68.4	70.7	72.6	73.1	72.4	71.0	69.5	68.5	66.7	1588.5	66.19	
3	65.3	64.7	64.2	63.9	63.2	63.1	62.3	62.6	62.4	60.3	60.4	60.8	61.2	62.7	66.1	69.6	72.3	72.9	71.6	69.9	68.8	68.8	68.5	68.0	1573.6	65.57	
4 Q	67.3	66.7	65.9	65.5	64.9	63.4	61.5	61.7	61.4	61.8	61.9	62.4	64.6	65.0	65.2	67.6	70.7	72.9	73.4	73.6	73.0	71.2	69.6	67.9	1599.1	66.63	
5 Q	66.8	65.7	64.7	63.4	62.7	62.0	61.4	60.8	59.8	60.5	60.1	60.3	62.1	62.3	62.8	64.0	66.7	68.7	71.4	72.9	73.0	71.5	70.2	68.4	1562.2	65.09	
6	67.0	66.1	65.6	63.2	63.1	62.4	60.4	58.8	57.8	57.3	58.2	63.8	66.0	66.1	66.4	68.4	70.7	72.3	72.7	72.0	71.2	70.3	69.5	68.7	1578.0	65.75	
7	67.6	66.7	64.2	63.7	64.1	63.4	61.2	60.2	59.6	59.3	60.6	62.2	62.0	62.7	64.1	66.4	69.5	72.3	72.7	71.7	70.7	70.1	68.1	67.5	1570.6	65.44	
8 D	66.9	67.4	66.4	65.4	64.2	62.9	60.4	60.1	61.2	63.3	63.5	63.4	63.8	65.1	67.3	69.5	72.6	76.9	77.5	75.5	73.9	72.1	71.1	69.4	1619.8	67.49	
9 D	67.5	66.3	64.5	62.9	60.2	60.1	59.0	57.4	56.5	59.0	60.7	64.9	66.2	68.4	69.7	72.7	75.5	78.2	78.7	77.9	76.8	76.4	76.0	69.0	1624.5	67.69	
10	69.1	68.8	68.4	68.1	67.4	66.5	65.6	63.9	62.4	61.6	61.7	62.2	62.7	64.5	65.3	67.8	70.0	70.7	70.7	70.8	70.3	69.3	68.4	67.6	1603.8	66.83	
11 Q	67.0	66.6	66.3	66.0	65.3	63.9	63.2	62.7	61.8	61.2	61.0	60.7	62.2	64.1	66.0	67.2	68.3	68.2	67.4	67.0	66.8	67.3	68.1	68.3	1566.6	65.28	
12	67.8	66.8	66.4	65.5	64.9	63.8	62.9	61.8	62.3	62.2	61.9	61.9	62.3	62.6	63.9	66.4	69.0	70.4	70.3	69.6	68.9	67.6	67.3	67.3	1573.8	65.58	
13	67.0	66.9	66.4	66.2	66.1	65.2	64.1	63.3	64.4	61.5	60.7	60.5	65.5	64.8	65.8	66.8	68.6	68.4	68.3	67.7	67.3	66.9	66.9	66.9	1576.2	65.68	
14	67.6	66.8	66.4	65.5	65.3	64.4	63.5	62.8	62.0	62.1	61.8	62.1	62.3	62.5	63.8	65.9	67.9	69.2	69.1	69.2	68.6	68.1	69.1	69.1	1575.1	65.63	
15	67.5	66.9	65.7	64.8	66.1	64.9	64.4	61.5	58.0	58.5	59.2	58.8	62.6	65.4	66.4	67.7	70.0	69.6	68.1	67.2	66.8	68.4	67.7	67.5	1563.7	65.15	
16	68.4	67.9	66.9	65.6	62.3	58.4	59.0	55.7	56.9	61.5	62.6	63.5	64.0	64.9	66.5	68.8	70.7	71.6	71.9	69.2	67.5	65.8	65.2	65.8	1560.6	65.03	
17	65.8	65.9	64.1	63.8	64.2	63.4	62.4	62.3	61.7	60.7	61.2	61.8	63.2	64.1	66.0	68.7	70.7	71.3	70.1	67.6	66.3	65.5	65.2	65.5	1561.5	65.06	
18	65.3	65.0	65.5	65.1	64.3	63.9	62.6	62.0	61.5	60.3	58.7	58.9	60.5	66.4	69.5	69.5	70.7	71.9	72.5	73.2	69.8	66.6	66.4	67.0	1577.1	65.71	
19 D	67.6	67.7	64.1	65.3	66.0	65.5	64.3	63.1	61.3	60.3	58.6	58.6	60.4	63.5	67.7	74.2	77.9	77.9	76.9	77.0	73.3	72.7	66.9	67.8	1618.6	67.44	
20 D	68.4	65.8	64.0	70.5	64.5	62.7	63.9	62.3	64.3	64.1	66.6	66.1	65.8	68.1	71.9	74.1	75.3	75.3	71.6	69.6	68.6	68.0	66.9	66.7	1625.1	67.71	
21	66.7	66.1	66.1	65.6	63.4	63.2	62.2	63.2	61.5	59.9	60.3	64.9	69.5	67.6	67.5	71.4	76.1	74.2	71.9	70.8	69.5	68.1	67.8	67.6	1605.1	66.88	
22 D	67.2	66.6	66.2	65.7	65.4	64.6	61.5	57.9	57.7	58.8	57.7	62.1	64.5	62.5	64.1	67.6	72.3	71.9	71.9	71.1	68.7	66.9	66.0	65.3	1564.2	65.18	
23	65.1	64.9	65.0	64.3	64.0	65.0	65.1	64.1	63.2	62.5	62.1	62.6	64.1	64.9	65.9	68.2	71.3	73.3	73.3	71.9	70.3	68.7	67.8	67.5	1595.1	66.46	
24	65.3	65.3	65.8	64.9	64.0	62.5	59.9	60.4	59.5	59.9	59.2	59.5	62.6	64.4	65.0	67.2	69.9	71.9	73.0	70.3	69.4	68.2	67.2	65.9	1561.2	65.05	
25	64.0	66.8	66.9	66.2	62.3	63.1	64.1	63.2	63.2	63.1	61.9	65.0	64.8	65.8	66.5	67.7	70.6	72.2	71.3	70.5	70.4	69.6	69.0	68.1	1596.3	66.51	
26	67.0	66.8	66.1	64.9	63.7	62.3	62.1	61.0	60.5	59.7	61.4	60.8	61.0	65.3	65.9	67.6	70.1	70.6	70.6	69.6	69.4	69.3	67.7	67.8	1571.2	65.47	
27	67.2	65.8	65.5	65.4	65.1	64.1	63.9	62.9	63.8	62.1	61.8	61.6	62.3	62.9	64.9	66.4	68.7	70.7	70.7	68.8	68.2	67.7	67.5	67.2	1575.1	65.63	
28	65.3	65.0	66.0	65.3	65.0	63.9	62.3	62.2	60.7	59.3	60.7	61.0	62.6	63.9	66.0	65.8	66.1	68.1	69.5	69.2	70.6	70.6	69.7	69.5	1568.8	65.37	
29	68.1	66.9	65.5	64.9	63.9	63.4	63.0	62.1	60.8	60.3	60.3	62.2	63.9	64.3	67.6	69.9	72.1	73.5	74.2	72.5	70.1	67.7	66.7	66.6	1590.5	66.27	
30	66.6	66.1	65.3	64.7	62.7	63.2	63.4	63.1	62.3	61.6	61.5	61.4	62.4	63.9	65.8	67.0	68.5	69.2	68.7	67.1	65.9	66.2	66.0	66.3	1558.7	64.95	
31 Q	66.3	66.0	64.8	65.7	63.5	63.2	63.2	63.0	62.1	61.7	61.2	61.4	61.5	62.5	65.3	68.6	71.8	73.8	73.9	71.0	67.6	65.5	64.5	64.8	1570.9	65.45	
Sum.																									49044.9		
±000+					991.8	965.7	936.6	908.0	890.6	883.3	886.6	918.8	962.3	999.5													
2000+	072.5	057.2	034.7	020.9											052.0	119.5	195.7	231.7	227.8	196.6	162.1	133.7	107.8	089.5			
Mean.	66.85	66.36	65.64	65.19	64.25	63.41	62.47	61.55	60.99	60.75	60.86	61.90	63.30	64.50	66.19	68.37	70.83	71.99	71.86	70.86	69.75	68.83	67.99	67.40		65.92	

Horizontal component, H, 23000 gammas + tabulated value.

January 1961

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	440	453	444	442	446	449	439	433	438	431	422	410	400	394	391	397	413	427	432	435	437	443	437	439	10292	428.8
02 Q	444	444	445	445	448	448	448	438	436	435	435	445	439	421	401	389	395	413	432	449	460	452	441	446	10447	435.3
03	447	452	448	449	452	444	439	435	435	430	428	418	405	391	382	379	391	415	442	447	452	452	452	449	10334	430.6
04 Q	445	448	451	453	452	447	443	448	444	441	440	435	428	415	405	396	405	424	441	450	453	454	458	454	10530	438.8
05 Q	457	459	459	461	464	462	459	456	443	435	440	437	428	418	408	398	400	408	429	444	450	447	450	452	10564	440.1
06	452	452	452	443	439	438	434	431	426	426	426	434	439	422	410	400	395	402	414	431	442	448	452	458	10366	431.9
07	457	467	457	457	469	471	466	459	451	442	439	435	421	405	398	387	388	401	421	439	448	465	460	477	10580	440.8
08 D	460	457	450	451	448	444	430	435	430	439	439	431	420	412	400	393	410	412	414	417	434	446	445	430	10347	431.1
09 D	436	445	449	473	442	437	432	432	436	429	414	401	391	387	377	369	380	395	404	408	419	424	424	427	10031	418.0
10	430	430	433	432	431	428	427	423	419	420	423	418	406	396	392	387	392	407	418	422	425	428	436	444	10067	419.5
11 Q	442	444	443	443	439	435	426	426	422	422	421	413	403	393	389	391	397	408	411	413	417	426	435	444	10100	420.8
12	449	452	452	444	445	443	444	440	440	443	442	436	430	422	413	407	413	422	420	422	427	430	444	448	10433	434.7
13	448	450	453	457	459	458	457	451	444	439	444	435	437	433	421	409	400	412	415	421	426	424	438	453	10484	436.8
14	451	452	449	448	453	452	449	443	436	435	439	431	422	417	408	403	401	408	420	428	429	438	442	430	10384	432.7
15	444	447	459	450	461	465	463	449	448	443	444	450	425	413	395	392	401	419	430	435	439	454	434	431	10471	436.3
16	439	451	451	446	430	419	427	426	415	415	411	412	408	408	400	390	399	417	435	444	458	447	444	448	10240	426.7
17	451	449	447	439	439	434	430	434	426	422	413	409	401	387	382	388	389	405	413	422	426	430	441	445	10132	422.2
18	446	448	457	461	459	457	452	457	440	440	434	414	389	395	419	422	426	426	441	442	426	438	448	447	10484	436.8
19 D	454	471	458	448	449	445	438	431	425	422	418	409	398	386	386	383	393	409	429	431	430	412	413	419	10157	423.2
20 D	416	409	426	420	417	410	428	402	406	412	400	398	386	371	356	355	378	401	415	428	408	409	404	414	9669	402.8
21	427	432	441	437	433	426	418	417	419	425	426	403	394	387	387	366	382	408	426	430	430	423	422	426	9985	416.0
22 D	433	441	441	439	436	438	435	425	431	422	408	391	406	395	386	378	374	414	422	430	435	443	443	435	10101	420.9
23	437	433	438	440	433	431	428	424	417	415	415	415	410	400	401	398	405	419	433	436	440	445	450	448	10211	425.5
24	452	450	458	464	450	434	432	427	436	434	425	402	397	401	397	397	394	404	406	411	421	423	424	436	10175	424.0
25	438	433	443	447	446	438	439	429	425	425	414	407	404	403	407	404	407	404	412	416	425	438	451	443	10198	424.9
26	451	451	452	454	450	435	440	438	433	429	430	428	410	414	412	403	403	406	403	412	420	423	429	438	10264	427.7
27	437	438	436	432	433	435	437	429	426	427	421	420	410	398	382	379	390	417	428	433	435	436	435	443	10157	423.2
28	442	430	439	433	435	436	434	434	428	422	417	416	416	408	414	415	414	425	414	425	429	429	433	437	10225	426.0
29	433	443	439	441	442	438	434	427	425	423	417	412	408	395	383	385	394	411	417	412	414	422	432	429	10076	419.8
30	429	437	439	443	438	432	432	432	429	429	425	421	417	412	407	407	416	425	430	438	445	450	447	439	10319	430.0
31 Q	446	448	450	443	448	452	446	438	435	436	432	425	416	407	390	386	397	412	428	437	443	443	443	445	10341	430.9
Sum	13733	13813	13859	13835	13786	13686	13606	13469	13364	13308	13202	12989	12764	12501	12299	12153	12352	12776	13095	13308	13443	13542	13607	13674	318164	
Mean	443.0	445.6	447.1	446.3	444.7	441.5	438.9	434.5	431.1	429.3	425.9	419.0	411.7	403.3	396.7	392.0	398.5	412.1	422.4	429.3	433.6	436.8	438.9	441.1	427.6	

Vertical component, Z, - (36000 + tabulated values) gammas

January 1961

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.	
Date																											
01	630	626	622	619	620	613	609	609	610	605	598	587	579	579	581	585	585	593	599	605	608	612	609	612	14495	604.0	
02 Q	610	610	611	610	611	610	611	603	598	596	593	593	597	591	585	586	589	601	607	611	619	618	613	616	14489	603.7	
03	618	619	615	613	611	605	601	597	591	589	589	585	579	569	565	571	579	586	598	601	601	604	606	609	14301	595.9	
04 Q	605	605	607	609	608	605	601	605	599	593	588	583	585	585	583	585	588	590	596	601	603	603	609	607	14343	597.6	
05 Q	606	608	609	610	609	605	601	597	590	587	587	585	581	581	572	561	557	560	574	586	596	598	605	607	14172	590.5	
06	607	605	604	601	601	601	598	597	594	587	581	577	581	581	577	572	575	584	592	598	605	609	610	615	14252	593.8	
07	613	617	618	614	615	610	606	601	593	585	577	573	573	573	573	570	566	570	581	590	597	613	611	630	14269	594.5	
08 D	625	621	619	615	616	610	604	604	593	580	577	584	587	584	579	578	580	576	581	595	608	621	625	611	14373	598.9	
09 D	616	617	617	609	596	596	587	578	571	559	566	563	572	576	567	564	570	581	600	615	627	640	657	655	14299	595.8	
10	631	619	613	609	608	608	605	604	599	592	591	592	590	586	582	582	584	595	598	599	604	608	612	617	14428	601.2	
11 Q	612	610	610	608	606	602	598	598	595	594	592	585	581	580	578	578	580	584	588	592	592	593	597	602	14255	594.0	
12	606	607	608	604	604	603	600	596	591	590	589	589	589	584	582	576	576	585	591	595	600	605	610	615	14295	595.6	
13	609	608	608	609	608	606	605	600	591	576	584	581	573	572	576	572	571	579	582	590	598	596	605	610	14209	592.0	
14	609	610	607	604	604	602	600	597	592	588	591	592	589	585	576	572	576	584	592	596	597	606	612	608	14289	595.4	
15	616	617	617	612	609	608	601	587	585	584	584	576	576	576	571	574	578	589	595	598	600	612	612	616	14293	595.5	
16	608	612	608	605	599	586	588	568	569	580	584	588	588	584	578	571	572	586	599	600	609	604	602	602	14190	591.3	
17	605	604	604	601	598	596	593	589	588	590	585	581	577	571	570	571	575	581	589	591	589	590	595	595	14128	588.7	
18	596	599	600	599	596	595	593	596	587	571	574	572	563	562	578	584	588	592	599	602	600	608	612	604	14170	590.4	
19 D	604	612	609	597	596	595	593	592	590	585	583	577	573	564	556	552	557	580	604	621	632	645	648	649	14314	596.4	
20 D	641	625	609	576	604	596	584	576	581	578	580	587	585	576	568	571	587	608	621	627	617	619	612	609	14337	597.4	
21	610	612	616	613	601	600	596	581	577	577	573	553	555	566	566	552	575	598	601	601	601	600	601	602	14127	588.6	
22 D	604	610	608	606	603	601	591	573	581	588	585	566	573	569	563	559	557	585	592	598	603	609	614	611	14149	589.5	
23	611	606	605	597	592	595	596	594	590	589	588	585	579	577	577	573	577	577	589	594	601	607	609	605	14213	592.2	
24	604	604	608	605	592	586	576	570	590	592	587	576	572	570	572	572	572	575	580	589	594	596	597	611	14090	587.1	
25	612	605	606	606	598	593	597	593	589	587	583	573	573	570	575	573	573	577	586	593	597	605	617	609	14190	591.3	
26	612	608	607	605	601	593	593	589	586	585	583	578	569	570	569	562	561	573	581	589	593	600	601	606	14114	588.1	
27	606	607	601	597	597	596	594	589	586	585	578	581	581	577	577	575	573	581	593	595	595	594	593	597	14148	589.5	
28	605	601	602	599	598	597	595	593	586	585	582	577	573	569	575	581	580	580	577	588	593	593	595	600	14124	588.5	
29	596	605	601	600	593	593	588	586	588	586	580	572	568	565	566	573	571	577	589	597	601	604	605	601	14105	587.7	
30	597	601	601	603	593	593	593	593	590	591	588	581	576	569	568	570	577	582	588	594	594	594	592	589	14117	588.2	
31 Q	594	598	598	594	596	595	590	586	586	586	584	580	572	566	558	553	553	565	583	600	609	609	603	596	14054	585.6	
Sum.	18918	18908	18868	18749	18683	18594	18487	18341	18256	18160	18104	17972	17909	17829	17763	17718	17802	18074	18345	18551	18683	18815	18889	18916	441332		
Mean.	610.3	609.9	608.6	604.8	602.7	599.8	596.4	591.6	589.9	585.8	584.0	579.7	577.7	575.1	573.0	571.5	574.3	583.0	591.7	598.4	602.7	606.9	609.3	610.2		593.2	

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

February 1961

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.	
Date																											
1 Q	65.8	65.8	66.0	65.9	65.1	64.1	63.2	62.5	61.5	60.4	59.7	59.9	60.5	62.0	64.6	67.1	69.5	71.5	71.4	69.6	67.9	67.0	66.1	66.1	1563.2	65.13	
2 Q	66.0	66.0	65.3	64.9	64.1	63.5	62.9	62.3	61.4	61.4	61.3	61.3	61.5	63.1	66.0	68.7	71.5	73.2	72.8	71.8	69.6	67.7	66.5	65.6	1578.4	65.77	
3	65.0	65.0	65.0	64.9	64.9	64.9	64.1	63.3	62.2	59.4	56.8	57.9	58.2	59.5	66.9	67.8	68.9	71.8	71.3	69.6	68.5	67.1	67.6	67.3	1557.9	64.91	
4 D	66.7	65.7	64.9	64.6	64.2	64.1	64.4	63.4	61.4	61.4	61.4	61.5	63.5	62.5	66.9	71.4	72.4	73.3	77.4	82.5	88.4	89.0	86.1	77.6	1674.7	69.78	
5	75.9	74.1	72.2	71.3	63.4	63.4	64.9	60.9	58.1	55.7	59.5	63.2	64.5	66.4	68.4	70.0	71.8	73.2	73.4	72.3	70.9	70.0	68.4	68.3	1620.2	67.51	
6	68.3	68.1	67.5	66.5	65.6	64.1	62.2	60.3	59.5	59.2	60.4	61.4	62.3	61.8	64.5	69.6	71.4	71.4	71.8	72.3	71.7	70.7	69.5	68.1	1588.2	66.18	
7	66.3	65.4	65.6	65.6	66.1	64.4	64.8	65.1	64.6	64.6	65.2	66.1	64.2	64.1	64.8	65.8	67.8	69.7	70.0	70.5	70.4	70.4	59.1	66.5	1597.1	66.55	
8	67.3	66.9	66.8	66.8	63.0	66.3	66.3	65.5	65.0	64.4	63.7	63.6	63.2	64.8	65.7	67.6	68.7	70.1	72.4	73.1	71.1	70.0	67.9	66.9	1607.1	66.96	
9	66.0	64.8	63.1	64.9	65.9	65.5	65.4	64.8	63.8	63.1	63.2	63.2	63.7	63.7	64.6	66.3	67.8	68.4	69.5	69.8	69.1	67.8	66.6	66.0	1577.0	65.71	
10	65.3	65.4	65.6	65.6	65.6	55.4	65.5	65.5	63.8	63.1	62.5	61.8	62.4	63.2	64.1	66.3	67.8	68.4	68.4	68.4	68.4	68.8	68.3	67.5	68.3	1577.4	65.73
11	68.3	67.5	66.0	64.2	64.7	64.2	63.3	62.8	62.4	61.4	61.4	63.8	64.9	65.5	65.6	66.8	68.6	70.4	70.7	69.8	68.9	67.4	66.5	66.1	1581.2	65.88	
12 Q	65.7	65.4	64.9	64.7	64.3	64.1	63.2	62.8	63.1	63.2	63.3	63.2	63.1	62.3	62.7	64.9	67.2	68.7	69.5	68.7	67.8	67.0	66.2	65.7	1561.7	65.07	
13	65.3	64.9	64.9	64.5	63.7	62.3	62.1	61.4	61.4	66.4	69.1	69.6	66.9	67.8	67.3	68.7	72.2	71.9	71.4	70.6	69.6	68.4	67.7	66.9	1605.0	66.88	
14	65.9	64.6	64.7	64.8	64.4	63.8	63.4	62.7	62.1	61.4	60.9	61.4	62.0	62.6	63.5	64.9	66.6	68.3	69.3	69.9	69.9	69.4	68.3	67.3	1562.1	65.09	
15	65.9	65.9	65.5	65.1	64.4	63.7	62.7	62.6	61.9	61.1	60.4	61.6	63.7	63.7	65.6	67.3	69.0	69.6	68.7	67.9	67.0	66.0	65.4	65.3	1560.0	65.00	
16 D	65.1	64.8	64.9	64.5	64.2	62.4	60.8	58.9	59.6	56.8	65.9	65.0	64.6	67.0	69.2	69.6	71.5	71.9	71.0	69.9	69.5	67.3	66.0	65.7	1576.1	65.67	
17 D	65.9	65.9	65.9	65.9	65.5	64.9	64.1	62.6	61.6	60.9	61.0	64.2	68.3	64.8	64.7	67.2	69.7	71.5	71.8	73.0	74.3	74.6	74.1	68.0	1610.4	67.10	
18 D	66.3	64.8	63.9	65.9	62.6	61.0	59.4	61.5	61.3	64.2	65.0	67.3	66.3	68.1	68.3	68.9	71.0	73.7	71.7	70.5	68.8	67.2	66.9	66.7	1581.3	65.89	
19	66.4	66.2	66.4	65.6	65.1	65.0	63.3	62.5	61.9	62.4	61.8	60.0	63.0	64.7	64.1	66.7	70.2	71.4	71.5	69.1	63.2	67.1	66.7	67.3	1571.6	65.48	
20 D	67.3	67.2	66.5	63.8	62.3	61.4	64.9	62.7	62.7	63.4	63.3	61.5	63.3	66.5	64.9	67.2	70.5	71.0	72.9	73.2	71.5	69.6	65.6	66.3	1589.5	66.23	
21	66.6	64.7	64.2	64.3	62.5	62.9	63.8	63.5	63.9	62.6	62.3	61.4	61.8	63.4	64.2	66.1	69.2	71.0	70.7	71.8	71.7	69.0	67.4	67.0	1576.0	65.67	
22	65.5	66.4	64.1	61.7	63.2	63.9	64.2	64.6	63.2	62.9	62.9	62.6	62.7	62.7	64.6	68.2	69.9	70.8	70.9	71.1	69.1	67.4	63.8	61.9	1568.3	65.35	
23	64.2	66.1	66.8	66.2	65.7	64.2	63.8	61.5	61.7	62.3	62.1	62.6	62.2	63.9	64.9	66.9	67.8	69.1	69.3	69.9	69.6	68.0	68.2	67.6	1574.6	65.61	
24	66.9	66.0	65.8	65.3	63.7	60.0	58.6	63.8	64.1	62.7	62.3	62.1	62.2	63.0	64.5	66.2	67.9	69.6	69.5	68.2	66.9	65.9	65.7	66.0	1556.9	64.87	
25 Q	66.0	66.0	65.9	65.7	65.4	65.0	64.9	64.1	63.2	62.7	61.8	61.7	62.2	63.2	64.4	66.0	67.7	68.6	67.8	67.2	66.4	65.9	65.5	65.0	1562.3	65.10	
26 Q	65.7	65.6	65.8	65.0	65.0	64.7	64.1	63.5	63.1	62.6	62.2	62.2	62.1	62.2	62.6	64.6	67.0	68.1	68.0	67.3	67.1	66.8	66.5	66.6	1558.4	64.93	
27	66.4	65.9	65.4	63.5	62.8	61.2	62.6	63.6	63.2	62.1	61.3	60.3	60.3	61.6	62.9	65.1	67.2	68.7	69.3	69.3	68.3	66.9	66.1	66.0	1550.0	64.58	
28	64.9	65.8	66.0	63.8	60.9	63.5	63.7	64.2	61.0	60.9	61.9	64.9	65.0	64.9	64.9	66.7	67.8	68.1	68.7	69.0	68.7	67.5	66.9	66.7	1566.4	65.27	
Sum.	1000+	860.9	840.9	839.6	825.5	798.3	783.9	776.6	762.9	742.7	732.7	742.4	755.3	768.6	789.0	826.0	882.6	938.6	973.4	981.1	976.3	954.7	929.4	918.8	892.8	44253.0	
Mean.		66.46	65.75	65.70	65.20	64.23	63.71	63.45	62.96	62.24	61.88	62.23	62.69	63.16	63.89	65.21	67.24	69.24	70.48	70.75	70.58	69.81	68.91	67.81	66.89		65.85

Horizontal component, H, 23000 gammas + tabulated value.

February 1961

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	
Date																											
01 Q	447	446	451	450	452	450	449	448	446	442	436	426	410	393	385	386	401	420	436	448	456	461	455	453	10447	435.3	
02 Q	447	450	451	451	451	452	447	446	443	442	434	425	413	402	394	390	399	421	439	453	458	455	448	442	10453	435.5	
03	444	451	452	451	451	452	451	451	447	461	450	464	448	415	400	390	407	412	428	432	443	438	449	457	10544	439.3	
04 D	454	457	456	464	460	460	456	443	434	436	434	432	424	407	374	386	389	394	415	393	434	433	432	394	10261	427.5	
05	388	400	403	399	368	364	375	373	376	381	376	363	351	346	344	348	364	377	394	403	411	417	420	9117	379.9		
06	419	434	435	431	430	438	439	439	439	431	416	417	412	406	375	357	378	384	393	400	403	403	402	411	9892	412.2	
07	423	419	413	415	427	424	419	424	420	417	420	430	427	413	394	381	376	376	386	402	409	410	413	413	9851	410.5	
08	414	409	410	416	418	417	418	416	416	416	415	415	414	407	401	387	393	403	414	404	409	411	414	424	9861	410.9	
09	426	421	419	425	436	438	425	422	420	419	417	415	420	420	411	402	402	403	409	413	420	426	428	424	10061	419.2	
10	423	427	432	434	436	435	433	433	430	423	418	408	397	389	384	388	397	407	415	422	426	422	427	435	10041	418.4	
11	435	441	445	444	455	456	444	433	428	423	419	428	429	419	402	388	386	390	404	416	427	428	429	431	10200	425.0	
12 Q	432	433	432	431	433	432	429	426	423	420	421	423	416	408	397	390	392	402	416	423	427	431	428	432	10097	420.7	
13	436	439	443	449	446	440	433	439	451	439	475	473	430	399	371	362	360	379	397	405	418	422	420	430	10156	423.2	
14	434	433	435	434	432	433	428	427	426	419	411	405	401	392	387	383	388	402	413	423	421	426	435	423	10011	417.1	
15	427	432	437	430	430	425	419	418	418	414	414	407	400	392	386	384	391	396	410	420	423	427	434	435	9969	415.4	
16 D	439	450	434	440	434	444	440	437	444	440	423	409	380	366	371	379	377	393	405	409	405	414	418	425	9976	415.7	
17 D	424	424	426	424	423	420	422	422	420	421	429	427	418	410	398	380	393	408	428	447	445	442	415	424	10090	420.4	
18 D	407	362	384	402	393	389	398	395	393	395	388	398	384	359	378	376	383	380	397	412	423	427	424	426	9473	394.7	
19	417	419	426	423	424	422	423	416	411	412	415	409	392	394	380	365	364	389	392	409	420	427	430	432	9811	408.8	
20 D	424	428	433	427	424	431	432	427	422	418	424	412	399	387	390	364	370	395	404	406	420	410	412	423	9882	411.8	
21	423	429	430	440	432	419	423	423	420	424	412	406	391	379	374	384	383	391	398	414	398	398	402	417	9810	408.8	
22	427	427	429	437	430	427	427	423	426	419	414	405	402	388	381	370	373	383	397	405	415	412	416	426	9859	410.8	
23	421	424	430	432	433	440	437	428	421	417	412	406	396	389	388	386	389	400	396	414	406	418	423	428	9924	413.5	
24	430	431	435	440	448	449	414	414	414	412	408	405	402	393	387	383	388	396	407	410	414	418	419	423	9950	414.6	
25 Q	423	423	426	424	423	423	421	421	419	419	419	416	406	395	386	384	386	395	409	417	419	419	419	425	9917	413.2	
26 Q	430	428	425	427	430	430	429	427	426	426	423	419	411	403	399	396	402	408	412	419	423	427	430	432	10082	420.1	
27	439	444	445	440	444	435	432	436	433	430	434	430	423	414	405	397	397	405	414	425	431	436	436	436	10261	427.5	
28	441	431	427	430	429	433	431	436	444	436	433	426	420	417	405	400	399	410	410	421	410	410	410	423	10132	422.2	
Sum	11994	12012	12064	12110	12092	12078	11994	11943	11910	11852	11790	11712	11428	11107	10849	10682	10811	11106	11421	11656	11806	11862	11885	11964	280128		
Mean	428.3	429.0	430.9	432.5	431.9	431.4	428.4	426.5	425.4	423.3	421.1	418.3	408.1	396.7	387.5	381.5	386.1	396.6	407.9	416.3	421.6	423.6	424.5	427.3		416.9	

Vertical component, Z, - (36000 + tabulated values) gammas

February 1961

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	592	590	593	594	596	596	595	593	589	585	579	576	570	565	564	565	572	577	585	597	600	600	593	592	14058	585.8
02 Q	587	588	589	590	590	591	589	588	585	581	577	571	568	564	557	561	566	577	589	597	601	599	597	593	13995	583.1
03	593	594	593	590	590	589	589	589	583	586	571	573	560	545	548	557	564	565	580	586	593	589	594	601	13922	580.1
04 D	599	598	592	593	588	586	579	572	575	575	577	579	575	563	547	562	567	571	578	576	648	725	709	727	14361	598.4
05	652	641	632	617	571	573	605	592	559	540	558	589	596	593	589	585	585	592	601	608	611	617	617	617	14340	597.5
06	613	616	613	609	606	608	605	601	583	570	576	576	544	569	559	553	576	585	591	598	604	612	616	612	14195	591.5
07	617	616	610	605	607	593	593	598	596	594	592	591	589	585	583	580	576	579	588	597	606	610	617	625	14347	597.8
08	625	616	606	604	601	597	598	598	597	595	592	589	585	583	576	572	578	580	588	591	596	601	605	609	14282	595.1
09	611	607	601	600	603	598	590	594	596	595	590	586	580	580	580	576	576	579	585	592	597	604	607	602	14229	592.9
10	601	601	600	599	596	593	592	591	589	588	588	584	580	578	576	576	579	582	589	593	594	589	592	599	14149	589.5
11	599	604	605	604	600	596	589	584	582	580	578	576	576	574	572	569	569	568	577	589	597	599	598	596	14081	586.7
12 Q	595	595	593	592	590	592	590	587	584	582	580	580	581	578	573	572	574	580	587	592	595	596	596	596	14080	585.7
13	596	595	593	594	592	587	584	586	588	564	536	528	525	527	536	545	546	572	584	590	599	602	600	604	13773	573.9
14	604	600	599	596	592	592	589	588	588	584	580	576	578	577	576	576	576	582	587	592	592	593	602	600	14119	588.3
15	598	597	597	592	591	588	585	585	587	583	580	575	572	571	566	567	572	576	583	588	589	592	592	593	14019	584.1
16 D	594	601	592	592	590	589	589	576	559	544	532	542	545	548	564	575	568	576	589	597	599	603	604	603	13871	578.0
17 D	599	596	593	592	589	588	588	589	589	585	582	568	564	570	563	560	564	571	584	597	600	613	629	649	14122	588.4
18 D	633	584	596	599	597	588	566	581	582	575	562	572	576	571	586	580	577	575	596	605	610	613	609	605	14138	589.1
19	604	598	599	595	593	591	583	576	576	582	580	582	568	571	565	556	560	576	585	594	598	601	599	599	14031	584.6
20 D	596	598	595	590	582	583	582	577	574	565	570	569	567	568	572	556	564	580	585	591	601	601	608	606	13980	582.5
21	600	598	595	589	584	581	582	576	578	583	580	575	567	563	566	567	560	571	585	597	596	600	602	602	13997	583.2
22	602	597	596	592	585	585	582	572	580	580	579	577	576	567	561	555	560	568	584	592	595	596	601	601	13983	582.6
23	596	591	589	589	588	584	574	569	576	580	579	576	572	571	570	569	572	576	579	585	585	593	596	596	13955	581.5
24	596	593	592	593	589	565	557	573	579	581	581	581	577	569	565	566	568	573	581	586	589	592	590	589	13925	580.2
25 Q	589	589	587	586	585	584	583	584	582	582	583	580	577	569	565	565	566	573	580	585	588	586	585	589	13942	580.9
26 Q	592	589	587	586	586	586	585	584	581	581	581	577	577	573	568	565	565	565	569	577	578	581	581	582	13896	579.0
27	585	587	588	586	585	577	580	579	577	577	578	574	572	565	557	552	553	556	561	572	577	581	581	581	13781	574.2
28	585	583	583	581	577	580	581	581	573	562	567	568	568	570	567	563	564	572	576	584	580	585	586	589	13827	576.1
Sum.	16854	16762	16708	16649	16513	16460	16404	16363	16287	16179	16108	16090	15985	15927	15871	15845	15917	16097	16346	16548	16718	16874	16906	16957	393398	
Mean.	601.9	598.6	596.7	594.6	589.7	587.9	585.9	584.4	581.7	577.8	575.3	574.6	570.9	568.8	566.8	565.9	568.5	574.9	583.8	591.0	597.1	602.6	603.8	605.6		585.4

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

March 1961

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.	
Date																											
1	66.2	66.1	66.0	65.7	63.3	62.9	64.1	63.6	64.0	62.2	61.5	61.5	63.7	65.3	65.7	67.2	68.5	69.0	68.7	67.4	66.5	65.8	65.0	65.0	1564.9	65.20	
2	65.9	65.9	66.1	64.9	63.4	62.3	62.2	62.1	62.6	62.0	61.0	61.4	61.8	62.7	64.1	66.0	68.0	69.0	68.7	67.3	65.6	65.0	65.6	66.7	1550.3	64.60	
3 Q	66.4	65.1	65.0	64.7	63.8	63.8	63.4	63.2	62.7	62.1	61.5	60.7	60.8	62.3	64.0	66.6	67.8	67.3	66.4	65.7	65.9	65.8	66.1	66.3	1547.4	64.48	
4 Q	65.7	65.8	64.9	64.7	64.1	63.7	63.1	62.7	62.9	62.4	62.0	61.4	60.4	61.3	62.6	64.9	66.8	67.4	67.8	67.5	66.6	65.9	65.6	65.6	1545.8	64.41	
5	65.6	65.4	65.0	63.6	63.4	63.8	63.5	63.2	62.6	62.1	62.1	61.9	61.4	62.3	64.0	66.5	69.0	70.1	70.2	69.2	70.7	71.5	71.5	70.5	1579.1	65.80	
6 D	72.0	67.7	65.0	60.9	59.8	56.1	56.1	54.1	51.9	52.3	57.1	58.6	62.1	67.8	69.3	70.6	71.2	71.5	71.0	69.4	68.0	67.1	66.7	66.6	1532.6	63.86	
7 Q	66.5	66.7	66.3	65.9	65.3	64.9	64.7	64.4	64.0	63.8	63.1	62.6	62.1	63.1	64.4	66.4	68.1	68.8	68.8	68.3	67.2	66.0	65.5	65.3	1572.2	65.51	
8 Q	65.5	66.0	66.0	65.5	64.6	64.2	64.8	64.4	63.8	63.4	62.4	62.5	62.7	62.9	63.3	65.0	67.1	68.3	68.8	68.8	68.0	67.4	67.5	67.0	1569.9	65.41	
9	66.7	66.1	65.0	63.4	63.4	63.5	62.3	61.4	63.2	63.3	63.2	62.7	62.3	61.7	62.8	66.0	67.9	69.3	69.5	70.6	69.6	69.5	67.8	67.4	1568.6	65.36	
10 D	66.4	65.4	64.1	62.6	61.6	57.5	59.4	60.4	56.3	63.1	71.5	69.0	70.7	68.4	68.8	70.3	70.6	70.5	70.4	69.2	68.7	67.7	66.9	66.8	1586.3	66.10	
11	66.6	66.9	66.6	66.3	65.3	65.2	65.0	64.6	63.8	63.1	63.7	63.3	63.5	64.2	66.0	67.7	68.8	68.7	69.3	69.6	68.7	67.8	67.6	67.3	1589.6	66.23	
12	67.3	66.4	66.8	66.3	65.8	65.1	64.7	63.8	63.4	63.1	63.6	63.0	63.3	64.1	65.6	66.7	67.3	67.3	67.2	66.9	66.9	66.7	66.2	66.3	1573.8	65.58	
13	66.1	66.4	66.2	65.7	65.3	64.5	63.7	62.2	60.9	61.3	61.1	61.5	61.6	63.1	64.4	66.8	68.6	68.6	67.9	68.2	67.9	67.1	66.8	66.3	1562.2	65.09	
14 D	65.5	62.6	62.7	54.1	61.3	61.5	60.7	58.7	57.2	61.7	63.0	61.6	62.0	64.5	66.0	67.2	68.8	71.2	69.9	69.8	69.0	67.5	66.7	66.7	1539.9	64.16	
15 D	65.8	65.0	65.0	64.4	63.1	63.0	62.6	63.6	63.5	63.1	63.9	61.7	62.6	63.1	65.7	66.7	67.5	68.8	68.5	68.3	68.0	68.5	65.5	66.0	1563.9	65.16	
16	61.4	60.0	63.5	63.7	64.1	63.4	63.3	65.8	62.4	62.9	63.2	62.8	64.0	64.6	65.4	67.4	68.8	68.9	68.1	66.9	66.3	65.5	65.3	65.4	1553.1	64.71	
17	65.1	65.1	64.5	63.9	64.7	64.4	63.6	55.0	60.8	63.3	62.9	61.9	62.0	63.3	64.5	66.2	67.8	68.3	67.4	66.8	66.4	65.8	65.4	64.9	1544.0	64.33	
18	65.1	64.7	63.5	64.4	64.4	64.3	64.1	63.8	63.7	63.6	62.9	62.0	61.5	62.1	65.3	66.9	69.4	70.5	70.1	67.6	66.7	65.5	64.5	64.4	1561.0	65.04	
19 D	64.5	64.5	64.4	64.3	63.6	57.5	50.7	56.7	62.2	63.5	63.1	62.5	62.6	65.5	67.5	66.4	68.2	72.4	69.0	69.5	69.0	65.6	64.8	62.9	1540.9	64.20	
20	58.7	62.1	65.0	65.5	65.5	65.0	63.9	63.8	64.5	63.4	65.3	62.3	62.6	63.2	65.6	66.5	67.3	69.2	69.3	69.8	67.1	66.8	65.6	65.0	1563.0	65.13	
21	64.1	64.3	61.5	63.3	64.4	62.7	63.3	62.7	61.7	61.4	61.7	60.9	60.0	61.4	62.1	64.7	67.4	69.1	69.7	69.7	67.1	66.6	65.7	65.5	1541.0	64.21	
22	65.6	64.4	62.7	63.6	64.1	64.4	63.6	62.8	64.1	62.1	63.0	62.3	62.7	62.8	63.8	65.1	66.7	67.7	67.8	67.0	66.0	65.4	65.3	65.3	1548.3	64.51	
23	64.9	64.9	64.4	64.4	63.5	64.4	64.0	62.1	60.4	61.2	61.6	61.9	61.0	62.3	65.5	66.4	66.4	67.3	67.2	66.8	66.5	65.7	65.5	65.4	1543.7	64.32	
24	64.8	64.7	63.9	64.3	63.7	63.1	63.6	62.9	62.7	62.8	61.8	63.0	62.1	62.4	63.6	65.3	66.5	67.3	67.8	67.0	66.4	66.1	65.5	63.9	1545.2	64.38	
25 Q	64.6	63.9	64.5	64.5	64.4	63.9	63.6	64.0	63.6	63.3	62.7	61.8	60.5	61.4	63.6	65.5	67.7	68.7	68.6	67.8	66.7	66.4	65.9	65.6	1553.2	64.72	
26	65.4	64.5	64.4	63.3	62.4	61.6	62.1	62.1	61.0	63.0	63.3	62.1	59.9	60.9	62.4	65.1	67.5	68.2	68.2	67.5	66.0	65.1	65.6	65.5	1537.1	64.05	
27	64.5	65.0	64.5	63.8	63.2	62.5	61.9	61.3	62.1	64.4	64.1	62.5	62.7	63.0	63.6	65.9	70.3	73.9	70.7	71.1	70.8	69.9	67.6	66.7	1576.0	65.67	
28	66.1	65.3	64.5	62.5	60.5	57.5	59.3	64.2	63.8	64.6	63.0	62.3	61.6	62.5	64.4	66.4	68.5	69.4	70.1	69.0	68.0	66.6	66.1	65.6	1551.8	64.66	
29	65.4	65.3	64.8	64.1	64.1	64.1	63.9	63.6	63.4	62.7	63.2	62.4	61.6	62.5	63.2	64.5	66.4	67.7	68.8	68.5	67.6	66.8	66.7	65.9	1557.2	64.88	
30	65.0	62.8	59.4	56.1	58.9	61.7	62.8	63.8	60.5	62.6	63.1	62.7	62.3	62.6	63.6	64.9	66.3	67.5	67.9	67.7	66.9	66.4	65.8	65.6	1526.9	63.62	
31	65.2	64.7	64.4	63.9	63.6	63.4	63.0	62.8	62.9	63.0	63.1	62.4	61.6	62.0	63.5	64.9	66.3	66.9	66.7	65.9	65.6	65.3	64.9	64.9	1540.9	64.20	
Sum.																										48229.8	
1000+				974.3	968.6	945.9	937.0	929.8	922.6	936.8	948.7	929.2	929.7	959.3													
2000+	028.6	013.7	000.6												004.3	056.7	107.5	138.8	130.5	114.5	090.4	068.8	051.2	042.3			
Mean.	65.44	64.96	64.52	63.69	63.50	62.77	62.48	62.25	62.02	62.48	62.86	62.23	62.25	63.20	64.65	66.35	67.98	68.99	68.73	68.21	67.43	66.74	66.17	65.88		64.83	

Horizontal component, H, 23000 gammas + tabulated value.

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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	429	433	436	440	432	428	428	423	427	426	423	419	410	411	402	398	402	413	419	419	421	423	421	414	10097	420.7
02	419	426	419	426	437	449	431	426	426	428	426	420	414	405	400	397	405	419	427	431	429	424	423	419	10126	421.9
03 Q	420	419	432	441	440	438	433	433	435	428	425	416	405	395	388	393	405	419	428	433	433	431	433	436	10159	423.3
04 Q	440	441	445	447	447	441	443	440	437	436	432	427	415	404	396	398	406	414	420	426	429	432	434	434	10224	428.5
05	435	439	440	436	434	435	431	434	431	431	430	422	409	396	392	395	407	414	429	439	443	417	402	400	10141	422.5
06 D	366	356	372	356	358	357	364	363	383	389	388	384	356	372	379	378	380	390	398	405	411	414	415	416	9150	381.3
07 Q	421	423	428	430	430	430	425	422	419	417	416	408	400	392	383	381	388	397	407	413	411	410	411	418	9878	411.6
08 Q	419	420	427	430	433	433	430	423	420	419	423	419	414	406	398	396	397	405	416	416	414	418	409	413	9995	416.5
09	422	427	423	425	428	433	430	423	423	427	421	417	410	408	409	406	408	415	415	418	423	427	418	441	10097	420.7
10 D	443	436	425	423	431	430	430	426	437	457	376	330	340	348	357	358	352	366	385	393	404	408	409	409	9573	398.9
11	409	409	409	407	405	404	404	404	405	404	405	404	394	387	378	380	387	392	404	396	395	405	408	416	2611	400.5
12	418	407	409	414	415	414	412	413	409	408	409	408	400	392	390	392	396	404	406	411	413	413	417	415	9785	407.7
13	414	404	417	425	424	422	423	430	418	416	413	416	410	398	386	380	391	400	407	413	413	418	422	427	9887	412.0
14 D	433	413	405	404	405	414	422	436	409	404	408	419	417	399	388	380	383	384	386	408	415	418	419	423	9792	408.0
15 D	426	427	431	436	441	430	421	419	419	417	421	414	399	384	357	380	363	395	405	414	423	395	396	410	9843	410.1
16	423	397	409	410	433	419	420	426	411	414	415	412	400	402	399	393	395	405	414	423	423	423	424	424	9914	413.1
17	427	430	421	419	419	422	425	416	402	409	416	411	399	384	380	384	392	396	407	416	419	420	423	426	9863	411.0
18	423	424	423	427	430	427	423	423	422	422	422	418	405	384	379	377	380	397	402	416	422	427	411	419	9903	412.6
19 D	428	428	430	432	433	448	414	409	407	407	410	405	388	384	383	390	384	367	388	397	392	402	403	409	9738	405.8
20	407	413	419	425	427	426	419	417	419	410	410	417	395	386	368	373	379	388	392	392	401	408	414	419	9724	405.2
21	418	414	431	429	439	463	421	465	420	414	419	411	400	388	376	368	379	390	405	405	411	414	416	419	9915	413.1
22	419	426	423	418	423	432	422	419	419	419	416	410	397	389	381	380	388	399	409	419	419	420	419	420	9886	411.9
23	422	424	423	431	432	430	429	424	414	418	417	414	401	383	366	382	392	399	405	413	413	410	417	420	9879	411.6
24	422	422	426	430	429	427	426	422	422	427	421	414	408	396	387	383	387	395	404	415	419	417	413	414	9922	413.4
25 Q	422	422	424	424	427	426	425	427	426	426	425	418	405	391	378	379	387	401	417	423	422	422	422	424	9963	415.1
26	430	431	435	447	445	446	453	443	439	430	431	425	412	395	383	382	388	398	412	421	426	429	421	424	10146	422.8
27	454	439	438	434	439	437	434	432	424	425	424	421	403	403	394	385	362	377	395	399	386	399	406	414	9904	412.7
28	416	423	441	455	432	429	409	416	420	421	423	413	400	386	373	361	369	386	399	402	408	408	412	417	9819	409.1
29	420	423	425	422	422	422	423	422	422	421	423	423	410	395	386	388	395	405	412	409	407	413	420	424	9932	413.8
30	425	423	427	425	401	408	417	423	442	411	412	409	402	387	379	378	386	395	404	409	415	415	417	420	9830	409.6
31	423	427	431	429	428	426	426	425	422	425	425	421	409	396	386	399	411	429	435	436	437	435	436	440	10157	423.2
Sum	13073	13046	13144	13197	13219	13246	13113	13124	13029	13002	12920	12765	12427	12146	11901	11914	12064	12354	12652	12830	12897	12915	12911	13024	306913	
Mean	421.7	420.8	424.0	425.7	426.4	427.3	423.0	423.4	420.3	419.1	416.0	411.8	400.9	391.8	383.3	384.3	389.2	398.5	408.1	413.9	416.0	416.6	416.5	420.1		412.5

Vertical component, Z, - (36000 + tabulated values) gammas

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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	589	588	587	586	580	577	580	579	581	582	580	577	571	569	567	565	566	577	582	585	586	589	589	581	13913	579.7
02	588	589	586	588	586	569	568	573	577	581	580	575	572	569	564	561	563	570	577	581	583	585	585	581	13851	577.1
03 Q	584	586	587	589	585	582	580	577	577	576	576	573	571	565	560	561	567	573	577	581	581	577	576	577	13838	576.6
04 Q	578	578	579	580	579	577	576	573	573	573	573	573	569	563	557	558	561	566	572	577	579	580	579	577	13750	572.9
05	578	579	579	577	575	575	574	574	573	574	574	571	568	564	560	558	560	562	568	573	584	585	609	628	13822	575.9
06 D	612	615	553	554	573	569	567	563	552	558	574	580	562	564	575	574	578	582	586	588	591	592	591	588	13841	576.7
07 Q	586	585	586	586	585	584	581	579	577	577	577	575	572	569	565	564	566	573	577	581	582	582	581	586	13876	578.2
08 Q	585	585	585	584	582	579	577	576	575	577	577	576	573	572	569	565	564	570	575	577	580	586	585	584	13858	577.4
09	586	588	586	585	583	581	573	561	573	577	575	572	569	568	563	560	562	565	568	572	577	586	578	593	13801	575.0
10 D	593	585	581	578	580	575	577	568	498	474	409	443	528	577	581	583	584	589	593	593	598	600	598	596	13481	561.7
11	593	591	589	586	585	583	582	581	581	581	581	581	576	573	569	572	573	577	583	581	581	589	589	593	13970	582.1
12	598	587	587	589	587	586	584	582	581	581	580	582	579	574	574	576	578	580	582	583	585	582	587	587	13991	583.0
13	588	585	589	589	585	582	581	579	565	569	577	575	573	569	563	560	565	569	571	577	577	581	581	584	13834	576.4
14 D	586	585	581	561	575	578	566	554	552	565	555	561	564	559	558	561	567	569	576	586	589	589	589	588	13714	571.4
15 D	587	585	585	585	568	567	568	570	570	565	560	561	562	557	552	569	573	576	577	583	589	585	588	596	13778	574.1
16	587	578	576	576	577	557	564	534	557	573	577	577	568	571	569	566	566	573	581	585	585	584	581	579	13741	572.5
17	579	579	576	576	576	577	577	553	560	564	575	574	568	565	564	566	573	576	581	581	581	581	581	581	13764	573.5
18	577	577	576	577	577	575	574	573	573	573	573	573	568	560	561	560	566	576	577	584	590	591	581	581	13793	574.7
19 D	582	579	576	576	576	568	516	539	559	565	567	567	561	556	563	570	565	559	577	582	585	591	589	589	13657	569.0
20	584	582	583	582	572	570	572	572	572	559	553	564	563	562	560	570	574	576	576	580	588	589	589	587	13779	574.1
21	585	585	580	574	568	567	571	570	567	566	572	572	564	562	557	552	562	564	572	572	574	578	581	580	13695	570.6
22	579	580	576	572	572	560	562	559	550	565	569	568	565	565	563	561	566	571	576	580	580	579	576	576	13670	569.6
23	576	576	574	574	568	565	556	556	552	564	564	568	566	561	554	566	572	572	574	577	578	576	580	580	13649	568.7
24	580	578	576	576	574	570	567	566	567	568	568	564	564	560	556	555	560	565	570	574	576	577	576	578	13665	569.4
25 Q	580	577	577	574	573	570	569	369	568	569	570	571	566	561	557	556	559	565	569	573	573	573	575	574	13668	569.5
26	576	575	575	577	569	565	561	557	557	557	560	563	561	554	549	549	557	565	571	576	577	578	573	571	13573	565.5
27	577	577	573	569	569	568	562	559	557	558	561	562	556	560	557	547	526	554	572	577	572	579	584	585	13561	565.0
28	583	585	593	564	545	553	551	561	563	566	567	567	566	563	557	549	556	565	573	573	577	577	577	577	13608	567.0
29	577	577	576	572	572	571	570	568	568	568	567	568	565	564	563	560	560	565	568	567	568	572	576	576	13658	569.1
30	576	576	576	559	542	560	561	557	546	556	563	565	565	560	558	558	560	564	568	572	573	574	573	573	13535	564.0
31	573	574	573	570	568	567	566	564	563	564	564	565	563	559	556	560	563	567	568	567	567	567	567	567	13582	565.9
Sum.	18102	18066	17976	17885	17806	17727	17633	17546	17484	17545	17518	17563	17538	17495	17421	17432	17512	17675	17837	17938	18006	18054	18064	18093	425916	
Mean.	583.9	582.8	579.9	576.9	574.4	571.8	566.8	566.0	564.0	566.0	565.1	566.5	565.7	564.4	562.0	562.3	564.9	570.2	575.4	578.6	580.8	582.4	582.7	583.6		572.5

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

April 1961

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.
1	64.5	61.4	57.8	57.0	61.8	62.4	60.6	58.7	58.1	57.5	60.6	61.7	60.5	62.4	64.4	66.6	68.2	68.3	68.9	67.9	69.0	66.9	66.5	66.3	1518.0	63.25
2	65.6	65.0	64.2	63.7	63.8	61.0	57.2	59.7	64.3	65.9	63.7	65.7	65.6	64.4	64.8	66.3	67.2	68.1	68.1	67.7	67.1	68.7	69.4	69.0	1566.2	65.26
3 D	67.3	65.0	61.8	66.5	55.3	55.8	63.3	64.6	62.8	56.7	63.0	64.0	64.6	64.7	66.4	70.0	70.6	70.7	71.1	69.4	67.2	66.2	64.9	64.4	1556.3	64.85
4 Q	61.9	62.5	63.5	64.3	64.3	64.5	65.6	65.7	64.4	63.9	64.0	63.5	62.8	63.0	64.1	65.9	67.3	67.9	68.3	67.8	67.0	65.9	65.0	64.9	1558.0	64.92
5 Q	64.9	65.3	62.6	62.7	61.6	63.8	63.7	63.4	63.1	63.4	63.3	63.9	62.8	62.8	63.7	65.1	66.3	67.1	67.7	67.3	66.7	65.9	65.4	64.9	1547.4	64.48
6	65.1	65.0	63.7	63.0	63.1	62.5	62.9	63.3	63.3	63.3	63.4	63.0	62.1	62.3	63.0	64.5	66.5	68.3	68.6	68.1	68.1	66.7	66.7	68.4	1554.9	64.79
7	67.6	65.7	64.6	59.5	60.9	62.9	63.0	62.8	62.8	62.6	62.6	62.2	61.9	62.6	64.1	65.7	67.2	67.8	67.7	67.0	65.9	65.4	64.9	64.7	1542.1	64.25
8	64.9	64.5	64.3	63.6	63.3	62.6	61.8	62.1	62.3	62.5	62.4	62.8	62.4	62.5	63.1	64.4	65.6	66.6	66.8	66.0	64.6	64.4	64.6	64.4	1532.5	63.85
9 D	64.5	64.5	63.0	62.7	62.6	63.3	63.9	62.7	62.0	63.0	64.0	64.6	65.1	62.6	63.1	65.1	66.7	68.3	68.9	69.0	66.5	66.4	66.4	65.2	1554.1	64.75
10	63.5	64.3	64.5	63.5	62.9	63.4	63.4	62.2	61.7	61.6	65.6	63.1	62.3	63.3	65.4	66.1	67.5	67.7	67.6	66.0	65.9	65.6	66.2	66.3	1549.6	64.57
11 D	65.4	63.8	59.8	59.2	59.3	59.4	59.0	63.6	62.3	63.6	64.4	63.5	63.3	65.4	65.3	66.7	67.7	71.1	68.3	67.4	66.6	65.9	65.6	66.0	1542.6	64.28
12	65.7	65.2	64.4	63.9	63.7	63.0	61.3	65.0	63.8	63.0	63.0	62.9	63.5	62.5	63.8	64.6	65.9	67.2	67.1	66.6	66.0	65.9	65.4	65.4	1548.8	64.53
13	65.2	64.7	63.8	62.6	62.1	62.7	62.9	63.4	63.7	63.9	63.5	63.4	62.6	61.6	62.7	65.0	64.4	65.4	66.6	66.3	65.5	65.3	64.5	64.4	1536.2	64.01
14 D	64.7	65.0	64.4	63.4	63.0	62.6	62.5	63.5	63.5	64.1	67.4	67.2	69.0	67.5	68.5	67.9	69.0	72.2	75.1	71.5	71.7	63.7	62.1	59.4	1588.9	66.20
15 D	41.5	57.7	57.5	56.2	58.9	60.2	59.2	60.7	65.3	64.9	67.1	67.2	66.7	66.0	66.8	68.6	68.0	68.7	68.4	69.7	70.2	70.3	67.7	67.2	1534.7	63.95
16	66.4	65.3	63.0	65.0	63.7	64.9	65.3	64.4	64.4	64.4	64.3	64.5	64.4	64.5	64.6	65.6	66.7	67.3	67.4	66.9	65.3	66.4	59.7	66.2	1560.6	65.03
17 Q	66.1	65.6	65.1	63.8	64.5	64.5	64.4	64.9	64.4	63.7	63.4	63.2	63.0	63.0	63.7	65.2	66.6	67.3	67.3	66.7	66.2	65.6	65.4	65.5	1559.1	64.96
18 Q	64.8	64.6	64.2	64.4	64.1	63.6	61.9	61.0	62.5	64.4	62.9	62.9	63.4	63.3	63.9	65.6	66.7	67.3	67.5	67.0	66.3	65.6	65.3	64.9	1548.1	64.50
19	65.2	65.6	64.7	63.4	63.5	63.6	63.6	63.4	63.2	63.4	63.2	63.0	62.9	63.0	63.9	64.9	66.5	67.1	67.7	66.4	66.2	65.4	65.6	66.1	1551.5	64.65
20	64.5	63.4	64.4	63.8	63.7	64.3	63.4	63.0	64.6	63.5	63.4	63.3	63.1	63.0	63.5	64.9	66.2	66.8	66.5	66.3	65.6	65.4	65.5	65.2	1547.3	64.47
21 Q	65.1	64.7	64.4	64.1	63.9	63.8	63.6	63.6	63.7	63.8	63.7	63.4	63.0	62.6	63.1	64.5	65.9	67.0	66.8	66.8	65.9	65.5	64.9	64.9	1547.9	64.50
22	64.6	64.4	64.0	63.8	63.4	63.3	63.4	63.4	63.3	62.8	62.8	62.3	62.0	61.6	62.1	64.5	66.6	67.9	68.1	68.3	69.0	70.1	69.4	66.1	1557.2	64.88
23	64.9	64.8	64.1	64.0	63.0	62.3	63.1	63.7	65.4	63.8	63.3	63.9	63.8	63.7	63.5	65.1	66.6	67.3	67.9	66.9	66.6	66.4	65.6	66.6	1556.3	64.85
24	64.4	64.4	58.1	60.6	63.2	63.7	64.0	64.1	64.1	63.8	63.9	64.1	63.4	62.3	63.4	65.4	66.3	67.1	67.5	68.4	66.9	67.3	66.8	65.8	1549.0	64.54
25	65.8	63.6	57.2	61.2	60.8	61.6	63.5	63.5	64.7	65.2	63.8	63.5	63.7	63.4	63.8	64.8	66.3	67.1	67.2	66.9	66.1	65.4	65.2	65.4	1539.7	64.15
26	64.7	63.9	59.1	57.4	63.3	62.7	59.8	62.2	63.4	63.5	63.5	63.5	63.3	63.5	63.7	65.4	66.1	67.3	67.4	66.1	65.6	65.4	65.6	65.3	1531.7	63.82
27	64.7	64.9	65.6	64.2	64.1	62.6	61.1	61.9	64.4	64.4	64.0	63.1	62.4	63.5	64.6	65.2	66.3	66.9	66.7	66.8	66.7	67.0	65.6	64.4	1551.1	64.63
28	61.2	64.1	59.6	60.9	59.9	59.5	61.7	63.5	64.3	64.1	64.4	64.2	64.2	63.5	63.8	64.8	65.8	66.3	66.2	65.6	65.4	65.0	65.1	64.8	1527.9	63.66
29	65.2	65.2	64.4	64.6	64.5	64.4	64.4	64.4	64.4	64.4	64.1	63.9	63.5	63.3	64.1	65.5	66.4	66.3	65.5	65.1	65.2	65.4	66.2	65.6	1556.0	64.83
30	64.7	63.6	63.4	63.5	63.5	62.6	64.1	64.1	64.0	64.5	63.8	63.0	63.3	63.6	63.6	65.3	66.0	65.4	65.5	65.2	65.0	64.9	65.4	65.5	1543.5	64.31
Sum.																									46457.2	
1000+	924.6	927.7	881.2	876.5	875.7	877.5	877.6	892.5	904.2	899.6	912.5	910.5	904.6	901.4	924.5	969.2						984.0	966.6	963.2		
2000+																		003.1	029.8	034.4	016.3	000.0				
Mean.	64.15	64.26	62.71	62.55	62.52	62.58	62.59	63.08	63.47	63.32	63.75	63.68	63.49	63.38	64.15	65.64	66.77	67.66	67.81	67.21	66.67	66.13	65.55	65.43		64.52

Horizontal component, H, 23000 gammas + tabulated value.

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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	441	430	399	398	411	415	412	406	421	415	408	423	411	394	387	389	395	405	417	424	417	416	423	431	9888	412.0
02	429	426	429	430	443	446	433	416	413	430	419	413	418	410	394	395	401	405	410	409	403	384	385	384	9925	413.5
03 D	378	379	391	375	360	375	399	422	423	410	400	395	390	385	372	370	380	385	389	388	391	389	392	387	9325	388.5
04 Q	392	397	404	411	414	414	419	418	410	411	412	411	405	394	387	384	388	395	402	408	412	414	415	414	9731	405.5
05 Q	415	410	401	410	412	418	418	418	415	418	419	416	415	402	392	390	393	402	410	416	418	418	418	419	9863	411.0
06	415	412	406	410	418	418	418	418	418	421	422	419	409	399	394	395	398	399	408	417	414	392	400	399	9819	409.1
07	405	423	429	430	424	419	419	416	417	417	422	419	411	402	396	392	396	405	415	423	423	424	425	423	9967	415.3
08	426	429	429	427	427	426	425	420	427	425	428	425	419	407	401	398	402	412	421	432	431	427	425	426	10115	421.5
09 D	427	427	421	420	421	418	430	430	436	425	421	478	417	404	387	384	388	401	410	419	425	426	425	418	10078	419.9
10	412	415	417	425	430	428	426	417	410	408	410	415	405	389	380	382	386	395	405	420	423	424	423	417	9862	410.9
11 D	417	419	436	415	411	407	399	417	414	409	416	411	401	388	389	380	372	364	399	407	410	411	413	411	9716	404.8
12	413	415	417	418	415	415	427	415	419	412	414	415	406	402	383	382	386	392	405	415	419	415	418	420	9838	409.9
13	417	418	421	416	418	417	416	417	418	419	420	421	419	409	393	380	410	413	422	428	430	428	426	430	10006	416.9
14 D	427	425	426	428	430	432	427	430	438	441	437	434	413	398	392	376	364	362	333	338	333	285	279	289	9337	389.0
15 D	244	337	307	352	361	363	376	379	384	387	385	389	390	384	372	359	375	385	395	398	385	391	402	402	8902	370.9
16	401	402	401	408	399	400	401	399	398	400	400	401	393	382	375	375	374	386	398	391	387	375	383	393	9422	392.6
17 Q	401	403	404	403	404	404	403	404	403	403	403	403	397	390	383	379	383	391	399	405	408	406	406	407	9592	399.7
18 Q	407	408	408	411	411	412	410	402	400	406	412	412	406	398	387	385	387	402	408	412	410	409	408	411	9722	405.1
19	411	411	411	421	416	415	413	411	412	411	413	412	408	398	390	391	398	404	401	416	417	416	417	412	9825	409.4
20	403	402	406	410	411	416	415	411	416	415	413	412	409	400	391	390	395	403	408	409	408	412	413	416	9784	407.7
21 Q	417	419	419	419	417	416	416	415	413	415	415	413	408	402	392	390	393	403	413	416	416	410	414	417	9868	411.2
22	419	420	422	421	421	420	421	421	424	424	424	423	422	413	403	392	385	390	395	394	391	386	387	405	9823	409.3
23	409	410	412	414	419	421	420	416	416	422	418	414	409	398	383	380	384	392	401	403	400	396	399	394	9730	405.4
24	398	398	401	398	409	414	415	416	417	418	418	418	414	404	388	379	379	384	383	389	400	400	394	392	9626	401.1
25	397	404	405	406	409	410	412	410	409	412	412	413	409	399	391	387	391	400	405	406	404	406	406	403	9706	404.4
26	394	393	400	387	407	433	413	412	412	416	417	417	415	405	390	390	396	402	404	413	414	413	411	415	9769	407.0
27	416	419	413	413	406	427	419	418	421	423	418	424	417	399	395	396	395	397	401	401	397	401	401	403	9820	409.2
28	394	401	404	410	405	408	403	405	409	413	413	412	406	401	394	390	393	399	400	400	403	405	405	404	9677	403.2
29	404	410	411	411	411	408	409	410	411	413	417	415	409	398	388	392	405	416	423	421	417	410	390	395	9794	408.0
30	394	389	400	406	409	406	412	414	417	420	423	424	419	429	401	395	405	409	412	417	410	399	404	400	9814	408.9
Sum	12123	12251	12242	12303	12349	12421	12426	12403	12441	12459	12469	12497	12270	11983	11670	11567	11697	11898	12092	12235	12216	12088	12107	12137	292344	
Mean	404.1	408.4	408.1	410.1	411.6	414.0	414.2	413.4	414.7	415.3	415.6	416.6	409.0	399.4	389.0	385.6	389.9	396.6	403.1	407.8	407.2	402.9	403.6	404.6		406.0

Vertical component, Z, - (36000 + tabulated values) gamma

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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	566	564	549	556	567	567	565	556	548	551	552	560	558	555	552	551	552	559	567	572	569	567	571	573	13447	560.3
02	572	569	569	569	568	545	532	534	533	546	544	553	560	561	557	559	561	562	565	567	568	567	574	582	13417	559.0
03 D	588	590	593	532	543	559	571	546	524	524	561	571	574	570	564	559	565	570	575	579	587	585	587	583	13587	566.1
04 Q	580	580	582	580	578	579	569	563	568	569	571	573	573	568	561	559	560	567	571	574	577	578	577	575	13732	572.2
05 Q	576	575	573	573	571	574	572	570	568	569	569	569	569	566	562	561	563	567	570	575	578	577	576	575	13698	570.8
06	573	573	572	573	573	570	569	569	569	569	569	570	569	566	563	562	562	559	565	571	574	573	578	582	13673	569.7
07	590	590	584	571	566	570	569	567	567	566	565	564	562	559	557	558	562	566	570	574	576	576	574	577	13680	570.0
08	573	573	571	570	568	566	564	561	562	562	564	562	563	562	562	559	558	562	568	574	573	570	568	572	13587	566.1
09 D	569	569	566	567	566	563	566	565	564	554	523	528	538	552	552	554	559	563	566	570	573	574	573	570	13444	560.2
10	571	573	572	570	562	542	540	547	552	558	562	568	566	559	556	562	563	566	570	578	578	574	574	570	13533	563.9
11 D	570	571	559	553	537	537	548	562	562	557	563	564	563	554	560	555	551	554	575	576	578	578	577	575	13479	561.6
12	574	575	573	571	569	568	561	550	553	559	563	565	565	566	555	554	558	562	568	572	573	570	571	571	13566	565.3
13	569	570	571	566	565	562	562	563	563	563	563	562	564	562	556	541	566	565	566	568	568	566	564	566	13531	563.8
14 D	566	565	566	565	565	565	562	561	556	543	535	540	538	546	554	553	552	556	567	583	586	597	620	598	13539	564.1
15 D	570	518	584	548	556	552	496	561	586	585	582	582	586	582	576	567	575	579	583	586	577	583	586	585	13685	570.2
16	582	582	578	578	573	573	573	571	571	572	571	572	570	568	570	570	570	575	581	578	580	578	579	582	13797	574.9
17 Q	582	582	578	576	574	573	572	571	570	570	571	573	572	571	570	567	567	569	571	574	575	574	574	574	13750	573.0
18 Q	573	573	571	572	569	566	564	562	563	564	568	569	568	567	566	564	563	567	569	571	572	572	571	572	13636	568.2
19	571	571	571	569	566	567	566	565	563	563	563	565	565	564	562	561	562	565	560	570	570	569	570	570	13588	566.2
20	569	568	571	571	569	568	565	559	563	564	564	565	565	563	562	561	562	562	566	567	567	570	571	570	13582	565.9
21 Q	570	569	569	566	565	563	562	562	562	562	562	563	564	562	560	558	558	561	565	567	569	566	567	568	13540	561.2
22	568	568	567	565	563	563	562	562	562	562	561	559	560	558	553	551	547	554	561	561	565	569	575	579	13495	562.3
23	578	576	573	571	567	561	559	558	556	556	558	560	562	564	562	560	562	565	568	569	569	570	574	575	13573	565.5
24	577	578	566	565	571	569	567	566	565	565	565	565	565	565	561	556	557	560	561	565	571	574	572	572	13598	566.6
25	575	575	565	568	565	563	563	563	563	563	563	565	566	564	563	559	559	562	566	566	566	567	569	568	13566	565.3
26	567	568	564	562	569	553	552	558	562	563	562	562	561	559	554	555	560	563	563	568	568	567	565	567	13492	562.2
27	566	568	566	567	563	571	566	563	555	553	555	559	555	551	556	559	557	559	562	562	562	565	567	569	13476	561.5
28	566	568	563	560	553	551	555	560	563	563	564	563	562	563	562	561	562	566	565	564	567	567	567	566	13501	562.5
29	567	568	565	564	563	562	561	562	561	562	563	562	563	562	562	563	566	568	568	565	563	560	555	563	13519	563.3
30	564	565	568	567	566	563	565	564	563	563	562	559	560	559	558	554	559	563	563	564	561	557	562	562	13491	562.1
Sum.	17182	17134	17109	16985	16950	16885	16798	16821	16817	16820	16838	16892	16903	16869	16808	16753	16818	16916	17035	17130	17160	17160	17208	17211	407202	
Mean.	572.7	571.1	570.3	566.2	565.0	562.8	559.9	560.7	560.6	560.7	561.3	563.1	563.4	562.3	560.3	558.4	560.6	563.9	567.8	571.0	572.0	572.0	573.6	573.7		565.6

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

May 1961

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.	
Date																											
1	64.2	63.8	57.3	57.1	60.1	62.7	63.4	63.4	64.0	64.3	66.5	67.2	66.6	65.3	64.2	64.8	66.5	66.3	66.5	66.1	65.4	64.6	65.2	65.5	1540.8	64.20	
2	62.1	61.2	64.3	59.6	60.7	63.4	63.5	63.7	64.2	64.5	64.5	63.7	64.4	64.4	65.2	65.9	66.4	66.5	66.2	65.6	65.6	65.5	65.4	65.1	1541.6	64.23	
3 Q	64.8	64.7	64.4	63.2	63.3	63.5	63.6	63.4	64.1	63.8	63.1	63.3	63.6	63.9	64.4	65.5	66.2	66.5	66.2	65.5	65.1	64.6	64.5	64.4	1545.6	64.40	
4	64.4	64.4	64.4	64.2	63.7	63.4	63.2	63.3	63.3	63.5	63.5	63.3	63.6	63.5	63.8	64.8	65.3	66.0	65.6	66.3	65.7	66.2	68.9	69.2	1553.5	64.73	
5	67.1	65.6	64.8	62.5	64.3	63.3	62.3	60.2	59.8	62.4	62.5	63.0	63.2	63.3	64.0	65.4	67.5	67.3	67.7	67.7	66.4	66.2	66.7	67.5	1550.7	64.61	
6 D	63.9	64.7	63.5	63.0	62.9	57.1	56.1	60.8	65.4	65.7	66.7	69.0	66.8	67.6	67.8	66.0	66.9	67.3	66.6	66.2	66.7	65.0	65.6	65.4	1556.7	64.86	
7 D	64.5	58.7	62.0	63.1	64.0	63.8	63.7	65.6	62.9	62.1	63.2	64.5	65.6	65.4	66.6	67.1	66.2	67.0	66.6	65.7	64.8	65.4	65.5	65.6	1549.6	64.57	
8	65.4	65.5	64.3	62.9	62.5	61.6	61.6	64.7	64.1	65.4	65.5	64.5	63.8	63.7	64.4	65.6	66.2	66.3	66.2	64.9	64.4	62.9	62.0	64.7	1547.9	64.50	
9	64.5	64.4	64.3	62.4	61.7	60.2	61.0	63.0	62.0	68.5	64.1	64.3	64.2	64.3	65.4	66.6	66.5	66.6	66.4	65.5	65.2	65.3	65.6	65.1	1546.8	64.45	
10	62.5	63.0	64.7	64.6	64.4	64.4	63.9	62.9	61.7	61.8	63.4	64.2	64.4	64.3	64.9	65.6	65.8	66.2	65.6	64.8	64.4	64.1	64.4	65.2	1541.2	64.22	
11	59.8	63.9	63.8	61.6	60.7	62.5	63.5	62.0	62.9	63.8	63.0	62.9	63.5	64.4	65.3	66.3	65.6	66.3	66.7	65.3	64.4	65.3	64.8	64.9	1533.2	63.88	
12	64.4	59.1	58.1	61.8	64.6	62.5	61.0	62.9	62.5	64.4	65.4	64.9	64.2	64.5	64.7	65.5	66.2	66.8	65.3	65.2	64.8	64.7	64.9	62.6	1531.0	63.79	
13	54.2	58.3	56.9	65.1	61.5	62.6	63.7	63.8	64.6	65.6	64.5	64.8	65.7	65.3	65.4	65.5	66.0	66.4	66.3	65.6	65.4	65.4	65.0	65.2	1532.8	63.87	
14	64.7	62.9	61.9	59.6	62.6	64.5	64.4	64.6	64.4	63.4	64.6	65.7	64.4	64.4	64.9	65.2	65.5	65.6	65.4	65.0	64.6	64.5	64.5	64.5	1541.8	64.24	
15 Q	64.5	64.5	64.4	64.4	64.4	64.4	64.4	64.2	63.8	63.7	63.5	64.1	64.2	63.9	64.5	65.6	66.1	66.1	65.6	64.8	64.8	66.1	66.3	66.7	1555.0	64.79	
16 D	64.4	63.6	64.2	64.6	63.6	60.1	52.8	59.7	58.0	62.6	65.3	65.2	64.8	65.6	66.2	67.1	66.3	66.6	66.7	65.3	65.1	65.6	65.3	65.6	1534.3	63.93	
17	62.8	64.6	64.6	64.5	64.0	63.4	64.0	64.5	64.4	64.6	63.9	63.9	65.0	65.4	64.7	65.3	65.5	65.5	65.4	64.8	64.4	64.4	64.4	64.5	1548.5	64.52	
18 Q	64.4	63.7	63.8	64.3	64.3	64.0	63.9	63.9	64.0	64.5	64.4	64.3	64.1	64.4	64.4	65.1	65.7	66.1	65.5	64.5	64.2	64.0	64.1	64.2	1545.8	64.41	
19	64.3	64.3	64.4	63.9	63.5	62.9	61.5	61.2	61.7	61.5	62.1	63.5	64.2	63.7	64.4	65.1	65.6	65.6	65.2	64.9	64.8	65.0	64.9	62.2	1530.4	63.77	
20	62.6	65.2	63.6	62.6	55.4	55.4	59.7	64.4	66.6	63.7	63.8	64.4	64.9	65.2	65.3	65.7	66.3	65.7	65.6	66.2	64.4	64.6	64.4	65.0	1530.7	63.78	
21 Q	64.0	63.4	62.4	62.6	63.8	63.7	63.9	64.4	64.7	64.2	64.0	64.2	63.9	63.8	64.4	64.7	65.2	65.3	65.4	65.4	65.6	65.3	64.7	64.7	1543.7	64.32	
22	63.3	63.3	63.5	63.2	62.3	63.3	63.2	62.8	62.8	63.3	63.4	63.3	63.0	63.0	63.3	63.5	64.4	64.9	65.3	65.7	65.1	65.3	64.5	64.4	1530.1	63.75	
23	64.3	64.2	63.8	63.3	62.4	62.1	62.0	62.6	63.3	63.4	63.4	63.7	64.4	64.2	64.7	66.2	66.5	65.7	65.3	65.0	64.4	64.4	64.4	64.5	1538.2	64.09	
24	64.4	62.5	61.1	62.1	61.0	62.5	63.8	63.9	63.3	63.0	63.4	63.6	63.6	64.1	64.2	65.5	66.1	65.6	65.1	64.6	63.8	63.9	64.3	64.5	1529.9	63.75	
25 D	64.5	63.4	63.5	64.6	61.0	57.4	44.1	54.6	57.0	59.1	62.7	65.7	68.1	69.5	67.9	67.9	68.1	68.5	69.3	69.0	68.0	67.2	67.3	65.6	1534.0	63.92	
26	64.0	58.3	62.8	63.9	64.3	64.6	64.4	65.3	64.7	64.6	64.7	64.8	66.1	65.3	65.2	65.0	65.6	65.5	65.3	65.0	64.5	64.5	64.7	64.7	1548.3	64.51	
27	64.0	63.7	63.8	64.6	61.8	63.4	64.4	63.4	63.4	63.3	63.7	63.7	63.8	63.6	64.7	65.3	65.7	65.9	65.5	65.3	65.3	65.2	65.9	65.2	1544.6	64.36	
28	65.2	63.5	63.2	62.7	63.3	63.3	63.5	63.8	64.4	63.9	64.1	65.3	64.7	64.2	64.0	64.4	64.8	66.1	67.3	66.8	66.1	66.5	66.7	65.4	1553.2	64.72	
29 Q	64.4	64.0	63.8	63.7	61.4	59.0	61.6	62.9	63.5	63.8	63.8	64.1	64.3	63.9	63.9	64.5	65.3	65.3	64.5	63.9	63.7	63.8	63.8	63.9	1526.8	63.62	
30	64.1	63.9	63.7	63.3	63.1	62.9	63.2	63.3	62.5	63.4	62.6	62.6	63.5	63.6	63.7	64.6	65.2	64.6	64.3	63.7	63.4	63.5	63.4	63.2	1525.3	63.55	
31 D	64.1	64.4	64.2	63.4	60.8	59.7	59.9	59.7	57.1	55.2	57.4	60.8	63.7	64.8	65.4	65.8	66.7	65.3	65.2	65.5	64.8	64.6	65.6	66.7	1510.8	62.95	
Sum.																									47742.8		
1000+	975.8	960.7	955.5	952.4	937.7	927.6	919.2	948.9	951.1	967.0	976.7	992.5															
2000+													000.3	002.5	011.9	031.1	045.7	049.4	043.5	029.8	015.3	013.6	018.7	015.9			
Mean.	63.74	63.25	63.08	62.96	62.51	62.18	61.91	62.87	62.94	63.45	63.76	64.27	64.53	64.60	64.90	65.52	65.99	66.11	65.92	65.48	65.01	64.95	65.12	65.03		64.17	

Horizontal component, H, 23000 gammas + tabulated value.

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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	399	410	413	388	395	403	406	410	414	412	406	420	421	409	394	388	391	394	401	405	406	405	401	385	9676	403.2
02	350	344	400	397	398	404	398	401	405	406	406	410	403	397	393	394	399	400	403	405	405	403	406	406	9533	397.2
03 Q	406	406	407	411	408	406	406	403	403	407	406	406	404	400	395	392	397	404	408	412	413	413	412	411	9736	405.7
04	414	415	414	415	412	413	412	412	411	410	411	412	408	405	403	403	405	411	413	410	407	403	386	381	9786	407.8
05	394	405	408	409	409	404	402	412	406	401	402	405	404	404	400	395	379	405	418	412	413	414	405	396	9702	404.3
06 D	401	410	411	417	414	397	386	389	391	395	379	391	397	375	382	386	390	393	401	407	403	397	407	405	9524	396.8
07 D	406	411	410	407	411	414	412	428	407	415	407	398	396	386	383	378	390	398	405	412	411	408	391	395	9677	403.2
08	400	403	405	403	408	406	410	412	411	407	409	410	411	403	395	390	391	397	397	406	410	401	405	412	9702	404.3
09	415	416	416	419	416	418	408	425	398	408	411	409	405	402	389	388	401	408	409	409	408	406	403	399	9786	407.8
10	395	401	407	408	412	412	414	411	409	408	406	410	409	401	396	398	403	410	415	419	419	419	419	407	9808	408.7
11	395	407	405	421	415	418	416	409	407	413	410	410	412	409	405	407	410	417	412	408	414	414	411	411	9856	410.7
12	400	403	411	396	416	411	404	412	405	412	408	409	410	406	400	399	402	408	408	407	409	408	407	398	9749	406.2
13	398	379	365	395	398	394	396	401	403	403	407	402	405	406	397	387	391	394	393	402	404	401	404	407	9532	397.2
14	405	403	406	396	392	401	401	403	405	406	405	403	404	401	391	393	397	402	406	410	409	409	408	408	9664	402.7
15 Q	410	410	410	411	411	411	410	409	410	413	414	415	413	411	405	401	408	415	418	415	403	403	399	395	9820	409.2
16 D	392	370	394	403	404	412	393	384	384	387	402	402	406	408	392	386	386	404	409	411	412	406	406	406	9559	398.3
17	402	405	401	404	408	412	406	406	403	406	407	406	400	401	394	391	398	404	409	410	410	409	408	408	9708	404.5
18 Q	408	409	409	409	409	410	410	407	406	407	409	410	408	403	396	394	397	407	416	418	416	414	413	415	9800	408.3
19	414	414	407	413	414	422	417	409	407	407	413	412	409	411	411	412	414	418	420	424	417	412	413	397	9907	412.8
20	398	405	412	405	377	380	396	405	419	419	410	408	408	403	398	390	393	402	408	400	402	405	403	402	9648	402.0
21 Q	401	403	410	406	413	417	416	413	413	416	416	413	413	410	406	405	411	416	416	412	408	411	410	407	9862	410.9
22	399	407	410	418	418	423	422	422	424	422	422	420	423	423	420	420	424	425	423	416	417	418	409	414	10039	418.3
23	419	418	418	423	414	411	413	406	406	406	406	407	412	408	403	403	407	411	418	417	413	415	416	414	9884	411.8
24	413	418	408	403	403	409	409	410	410	409	409	409	409	406	403	405	409	413	419	422	421	420	419	413	9869	411.2
25 D	404	394	412	411	413	391	371	383	398	404	407	397	382	375	373	378	378	378	367	377	379	380	385	388	9325	388.5
26	390	417	409	398	398	400	403	401	404	402	402	404	400	399	395	400	405	409	412	415	416	413	411	404	9707	404.5
27	396	399	399	407	407	404	412	416	416	408	410	410	409	406	396	393	396	399	405	406	404	398	397	394	9687	403.6
28	398	396	398	395	403	406	407	409	412	415	418	426	429	420	420	416	411	408	402	396	400	396	390	402	9773	407.2
29 Q	408	415	409	406	412	412	410	407	408	410	412	412	412	410	410	409	411	414	417	418	418	417	417	412	9888	412.0
30	412	408	403	408	412	415	421	424	420	419	419	421	419	418	418	415	421	423	425	427	426	425	423	427	10049	418.7
31 D	425	425	408	413	425	408	404	401	415	413	413	407	403	408	405	406	409	408	402	411	409	405	403	397	9823	409.3
Sum	12467	12526	12595	12615	12645	12644	12591	12640	12630	12664	12662	12674	12644	12526	12368	12322	12424	12595	12675	12719	12702	12648	12587	12516	302079	
Mean	402.2	404.1	406.3	406.9	407.9	407.8	406.2	407.7	407.4	408.5	408.5	408.8	407.9	404.1	399.0	397.5	400.8	406.3	408.9	410.3	409.7	408.0	406.0	403.7		406.0

Vertical component, Z, - (36000 + tabulated values) gammas

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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.	
Date																											
01	566	568	549	538	551	558	562	562	560	558	551	556	562	562	562	560	562	563	563	566	566	565	561	560	13431	559.6	
02	557	568	547	535	568	573	567	563	559	556	561	563	561	559	559	562	564	564	565	567	567	566	566	565	565	13482	561.8
03 Q	565	565	565	563	561	560	560	559	557	557	558	560	561	561	560	559	561	563	564	567	567	566	564	563	563	13486	561.9
04	565	565	563	562	560	560	558	558	557	558	559	560	559	558	559	558	559	561	561	559	561	561	561	564	569	13454	560.6
05	576	577	572	569	566	561	558	544	550	557	560	559	559	560	556	551	543	560	569	564	566	566	568	566	566	13477	561.5
06 D	570	572	570	570	566	514	517	543	553	554	534	556	565	557	566	573	570	571	573	574	571	569	572	571	571	13451	560.5
07 D	570	566	559	562	560	553	540	517	535	549	552	549	559	560	557	556	566	568	570	572	570	567	561	565	565	13383	557.6
08	568	566	565	562	558	552	551	554	557	553	557	561	561	560	556	555	556	559	558	565	567	564	564	565	565	13434	559.8
09	564	562	562	558	551	543	529	530	524	524	546	559	559	560	557	556	562	564	564	563	562	561	560	560	560	13280	553.3
10	561	562	562	561	560	558	556	555	551	550	553	553	553	555	556	558	560	562	565	565	561	559	559	557	557	13392	558.0
11	557	562	561	557	550	545	541	545	548	550	552	553	553	552	552	553	555	555	552	556	561	559	557	557	557	13283	553.5
12	556	555	549	549	549	540	543	547	549	549	547	548	553	556	555	554	554	557	559	558	558	557	557	556	556	13255	552.3
13	560	545	523	541	549	556	558	559	555	555	555	549	552	540	557	556	559	561	560	585	585	581	581	583	583	13405	558.5
14	566	564	557	545	552	558	557	554	555	556	549	549	557	557	556	557	560	561	563	564	562	564	558	557	557	13378	557.4
15 Q	556	556	556	556	555	555	554	554	553	553	553	554	556	557	556	554	556	558	561	559	553	553	556	557	557	13331	555.5
16 D	560	554	569	566	562	545	496	533	537	548	554	555	561	562	554	554	558	565	566	565	565	560	560	561	561	13310	554.6
17	557	557	557	558	557	553	552	551	553	553	555	553	551	553	553	553	558	560	562	562	560	558	557	556	556	13339	555.8
18 Q	556	556	556	550	554	554	554	552	552	552	553	554	554	555	554	554	556	559	563	562	559	557	556	555	555	13327	555.3
19	554	554	551	554	554	551	545	545	546	545	550	550	551	554	554	552	552	554	554	556	553	550	552	551	551	13232	551.3
20	557	558	557	548	526	532	545	550	545	538	546	550	553	553	553	550	552	557	558	554	556	558	557	557	557	13210	550.4
21 Q	558	559	556	555	555	552	550	551	551	551	552	551	554	554	553	551	551	554	554	551	551	555	555	554	554	13278	553.3
22	552	555	554	554	550	552	550	550	549	547	547	546	548	548	546	543	545	545	542	542	546	548	546	549	549	13154	548.1
23	551	551	550	552	550	547	547	546	546	546	546	547	551	551	547	546	549	553	557	557	553	554	554	552	552	13203	550.1
24	554	551	543	546	546	547	548	546	546	546	548	549	550	549	549	550	550	551	554	555	554	553	551	550	550	13186	549.4
25 D	549	549	559	557	540	490	477	515	512	512	526	534	534	542	551	557	558	556	557	564	566	567	567	566	566	13005	541.9
26	565	558	551	553	555	555	554	549	551	553	554	554	553	557	557	555	554	555	555	555	555	553	551	550	550	13302	554.3
27	551	552	553	550	547	551	550	542	545	546	549	551	551	553	550	549	550	551	554	554	553	551	551	553	553	13207	550.3
28	555	555	555	553	553	550	551	551	553	552	551	551	551	549	551	549	546	544	542	545	549	553	551	551	557	13217	550.7
29 Q	557	555	554	551	548	538	542	550	547	548	548	548	549	550	550	550	550	551	552	551	551	549	548	546	546	13133	549.3
30	548	547	547	550	551	551	550	546	539	540	542	543	544	545	544	543	545	551	548	548	547	547	547	545	547	13108	546.2
31 D	544	546	540	543	539	533	537	535	528	519	518	528	535	540	543	547	551	552	548	553	552	551	551	551	551	12984	541.0
Sum.	17325	17310	17212	17168	17143	16987	16899	16956	16963	16975	17026	17093	17160	17169	17173	17165	17212	17285	17313	17358	17347	17324	17298	17306	412167		
Mean.	558.9	558.4	555.2	553.8	553.0	548.0	545.1	547.0	547.2	547.6	549.2	551.4	553.5	553.8	554.0	553.7	555.2	557.6	558.5	559.9	559.6	558.8	558.0	558.3		554.0	

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

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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.	
Date																											
1 D	63.7	64.9	64.8	64.4	63.6	62.6	62.0	61.7	59.7	59.1	58.8	61.7	66.4	65.2	66.7	66.9	67.2	65.9	65.3	65.6	64.8	65.3	65.3	65.5	1537.1	64.05	
2 D	63.1	59.0	63.0	64.0	63.4	63.4	63.5	61.0	61.0	62.9	62.6	63.7	65.8	67.7	69.1	72.3	69.5	69.0	67.3	64.7	64.3	64.3	64.4	64.4	1553.4	64.73	
3	64.4	64.4	63.5	62.7	62.0	60.4	59.9	63.5	63.7	63.2	63.5	64.2	64.6	64.8	65.3	65.5	65.4	65.3	65.1	64.5	63.8	63.9	64.4	63.7	1531.7	63.82	
4	63.2	64.5	64.3	63.4	62.5	63.2	62.8	61.0	63.7	64.6	62.7	62.6	64.3	65.5	64.8	65.1	65.5	65.4	65.2	64.6	64.5	64.3	64.3	64.4	1536.4	64.02	
5	64.5	64.6	63.8	63.3	61.0	58.9	62.6	63.5	64.7	65.0	64.4	64.8	64.1	64.1	64.3	64.8	65.4	65.6	64.7	64.9	64.6	64.2	64.2	64.3	1536.3	64.01	
6	64.0	64.4	63.2	62.7	62.1	62.6	63.5	62.1	60.8	62.1	63.4	63.5	63.8	64.3	64.4	64.8	65.6	66.0	68.1	66.6	65.5	65.6	65.4	64.9	1539.4	64.14	
7	64.5	64.4	64.0	64.3	63.5	64.3	62.7	62.1	59.9	61.8	61.4	63.7	63.5	63.9	66.7	68.2	66.3	66.3	67.1	65.8	67.1	64.6	64.0	64.9	1545.0	64.38	
8	64.4	60.8	60.8	62.6	63.0	63.5	64.4	63.5	62.5	63.5	64.7	64.4	64.7	64.6	64.5	65.4	65.7	65.6	64.7	65.2	65.3	63.6	64.4	63.7	1535.5	63.98	
9	64.4	64.4	64.3	63.5	63.7	63.4	62.6	62.8	64.4	63.8	64.0	64.3	64.3	64.3	64.7	65.2	65.4	65.2	64.7	64.8	64.6	63.1	64.4	64.4	1540.7	64.20	
10 Q	63.9	62.6	63.6	63.3	63.5	63.5	63.9	63.8	63.4	63.6	63.7	64.9	64.6	64.1	64.0	64.5	65.0	64.9	64.6	64.4	64.1	63.9	63.9	64.2	1535.9	64.00	
11 Q	64.3	64.3	64.2	63.8	63.7	63.7	63.5	63.7	63.8	63.8	63.9	63.8	63.7	63.6	63.6	64.3	65.0	65.1	64.5	64.1	63.7	63.6	63.6	63.7	1535.0	63.96	
12	63.7	63.7	63.9	62.7	61.5	57.8	58.6	63.6	63.7	63.6	63.5	64.4	64.1	64.4	64.8	65.6	65.7	65.2	65.0	64.4	64.3	64.3	64.3	64.3	1527.1	63.63	
13 Q	64.4	64.4	64.1	64.0	63.8	63.6	63.6	63.7	63.6	63.7	63.4	63.6	63.9	64.4	64.4	64.8	65.4	65.4	64.9	64.4	63.6	63.7	63.8	63.8	1538.4	64.10	
14	63.6	64.3	63.9	63.6	63.6	63.2	62.8	62.9	63.3	63.8	63.7	63.9	63.9	64.3	64.4	64.5	64.7	64.6	64.4	63.3	63.8	63.6	63.5	63.7	1531.3	63.80	
15	63.1	64.1	63.6	63.2	62.8	61.7	61.4	60.9	61.2	61.6	62.7	62.7	63.8	64.2	64.4	64.6	65.5	65.3	65.4	64.4	64.1	63.9	64.4	64.6	1523.6	63.48	
16	61.0	61.0	61.0	64.0	64.4	64.4	64.3	64.3	64.5	63.8	63.6	63.7	63.9	64.4	64.4	64.8	65.0	65.6	65.0	64.7	64.6	64.9	63.5	63.8	1534.6	63.94	
17	64.4	64.1	63.5	63.4	63.1	63.3	63.8	63.9	64.1	64.0	64.0	63.8	64.9	64.3	64.1	64.4	64.7	65.2	64.6	64.1	64.1	63.8	65.0	64.4	1539.0	64.13	
18	64.3	64.3	63.7	63.6	63.5	63.3	61.0	61.8	62.0	64.3	65.2	64.8	65.1	64.8	64.6	64.6	64.4	64.7	64.7	65.3	64.9	65.8	63.3	65.9	1540.4	64.18	
19	64.7	64.3	63.6	59.2	56.7	59.4	62.6	62.9	63.3	64.4	64.7	65.4	64.6	64.2	64.3	64.8	65.6	65.6	65.2	64.6	64.6	64.7	63.5	64.1	1527.0	63.63	
20	64.3	64.2	64.1	62.0	58.0	62.7	63.3	64.6	64.3	63.1	63.6	64.1	63.8	63.7	63.9	64.4	64.7	64.6	63.9	63.7	63.5	63.9	64.7	63.9	1527.0	63.63	
21 D	64.1	54.2	58.1	63.7	64.4	63.5	63.4	62.7	62.1	62.9	61.3	64.7	66.7	65.3	65.2	65.6	66.8	68.2	69.4	70.2	71.9	70.8	70.6	66.0	1561.8	65.08	
22 D	54.1	63.3	68.1	59.0	49.3	60.6	58.8	67.3	64.2	62.7	69.0	68.4	73.6	71.4	68.5	68.4	68.2	68.4	68.7	65.3	66.2	68.0	67.0	66.5	1565.0	65.21	
23	61.4	61.9	62.5	65.2	65.3	65.0	64.8	64.8	64.7	65.0	65.0	65.2	65.1	65.4	65.5	66.2	66.4	65.8	65.1	64.7	64.4	64.8	64.8	65.6	1554.6	64.78	
24	64.4	63.2	62.3	62.0	64.7	65.5	64.6	64.5	64.3	64.4	64.7	64.9	65.2	64.7	64.9	65.4	65.9	65.9	65.6	65.0	64.1	64.3	64.4	64.7	1549.6	64.57	
25	64.7	64.7	63.8	64.2	64.1	63.8	63.7	63.6	63.2	62.6	63.0	65.5	64.8	65.4	65.6	65.9	65.9	65.8	66.1	65.5	64.5	64.5	65.2	65.3	1551.4	64.64	
26	65.2	64.3	64.3	64.4	64.3	63.8	64.2	64.3	64.4	64.4	64.4	64.4	64.4	64.4	64.4	64.8	65.6	66.8	65.6	64.9	64.4	64.3	64.4	64.4	1550.8	64.62	
27	64.3	64.4	64.3	64.0	63.3	62.6	61.6	62.1	58.3	61.4	65.6	63.9	65.8	66.2	66.1	66.1	65.7	65.5	65.5	65.3	65.0	64.9	64.8	64.9	1541.6	64.23	
28 Q	64.5	64.5	64.6	63.9	63.1	61.3	62.2	63.3	62.9	63.4	64.3	63.0	63.6	63.7	64.4	65.3	65.7	65.7	65.3	64.7	64.2	64.1	63.9	63.4	1535.0	63.96	
29 D	64.4	64.8	63.9	53.2	50.6	44.5	52.0	60.6	62.2	62.9	63.1	64.6	65.3	65.5	65.5	66.1	66.9	66.7	66.5	65.6	65.3	65.4	65.4	65.4	1496.4	62.35	
30 Q	64.0	63.9	64.5	64.4	64.4	64.6	64.0	64.3	64.4	64.4	64.8	64.9	64.8	64.7	64.4	64.6	65.3	65.6	65.5	64.9	64.4	64.4	64.2	64.4	1549.8	64.58	
Sum.																									46170.8		
Mean.	63.65	63.40	63.58	62.92	62.10	62.14	62.40	63.16	62.94	63.33	63.76	64.25	64.90	64.92	65.06	65.60	65.80	65.83	65.59	65.01	64.81	64.68	64.63	64.57		64.13	

Horizontal component, H, 23000 gammas + tabulated value.

June 1961

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	386	390	398	399	399	405	399	397	401	425	407	410	425	408	410	406	402	409	406	410	410	401	402	397	9702	404.3
02	D	402	400	397	399	401	403	404	402	405	422	403	407	395	396	382	388	398	388	395	409	408	407	408	407	9626	401.1
03		407	406	415	415	416	415	395	395	397	411	397	400	400	401	401	401	402	407	410	410	408	405	404	399	9717	404.9
04		402	404	404	419	409	402	406	400	402	414	408	408	405	415	414	408	404	405	406	408	409	409	408	406	9775	407.3
05		405	401	401	404	415	398	397	401	399	408	406	405	411	410	407	405	406	407	410	407	411	409	409	406	9738	405.8
06		406	407	409	412	411	405	409	412	413	407	410	412	412	412	414	420	423	413	405	408	413	407	402	410	9852	410.5
07		407	404	402	402	403	411	416	405	408	410	408	415	415	411	409	406	404	402	393	392	397	401	407	403	9731	405.5
08		396	406	397	395	397	407	412	411	409	399	405	404	403	402	397	394	399	402	406	409	399	397	399	402	9647	402.0
09		404	404	405	405	404	405	405	404	410	411	410	409	409	407	400	402	405	408	411	405	402	402	406	406	9739	405.8
10	Q	405	408	407	407	405	402	408	407	404	405	405	408	414	407	404	402	403	408	411	412	412	412	411	411	9778	407.4
11	Q	412	411	410	411	412	414	413	413	413	415	415	415	415	411	408	405	409	416	419	420	419	418	417	417	9928	413.7
12		417	419	417	413	401	393	392	400	402	402	401	405	407	406	405	405	408	409	412	413	412	410	408	407	9764	406.8
13	Q	408	408	408	407	406	405	403	403	403	407	408	407	406	404	403	404	407	413	419	419	416	415	412	412	9803	408.5
14		412	413	412	411	409	409	407	405	405	408	410	410	411	410	410	410	414	419	422	424	421	420	416	420	9908	412.8
15		424	426	423	422	418	415	415	413	414	414	417	420	423	425	423	420	420	424	419	412	408	408	410	405	10018	417.4
16		387	397	392	403	407	407	407	409	412	415	415	412	412	411	408	399	401	410	412	412	408	336	401	402	9735	405.6
17		402	402	405	401	404	405	407	407	410	414	415	415	412	412	409	409	411	414	413	410	404	401	401	393	9776	407.3
18		394	398	402	406	407	413	411	409	407	404	418	420	418	418	418	413	414	414	410	401	396	382	379	367	9719	405.0
19		387	395	394	404	396	392	398	397	398	398	401	401	404	401	398	397	399	402	406	406	401	392	393	402	9562	398.4
20		406	401	402	401	400	403	404	407	413	417	412	414	416	415	412	410	415	418	416	410	412	410	401	372	9787	407.8
21	D	363	378	341	370	393	407	402	402	400	404	406	383	393	388	380	386	389	374	366	363	353	344	326	331	9042	376.8
22	D	307	313	336	313	312	346	351	374	404	404	387	420	397	393	391	390	390	386	373	392	397	397	395	388	8956	373.2
23		376	363	377	384	387	388	388	389	392	392	392	392	391	389	386	388	392	395	402	402	399	397	396	386	9343	389.3
24		394	393	382	386	390	396	397	395	397	398	399	398	396	394	392	393	398	401	403	403	403	405	402	401	9516	396.5
25		400	400	397	398	396	396	397	403	402	399	399	404	411	407	405	405	403	402	409	411	409	406	387	389	9635	401.5
26		392	396	397	398	398	399	399	400	399	399	399	399	402	401	400	398	395	400	410	410	408	405	404	404	9612	400.5
27		402	404	404	404	395	393	399	419	404	399	408	408	406	402	397	393	395	397	399	396	401	402	401	401	9629	401.2
28	Q	402	401	402	401	397	394	396	399	398	398	406	406	406	405	405	402	403	408	410	412	411	409	407	408	9686	403.6
29	D	408	401	399	375	356	338	333	364	376	380	384	386	389	391	395	389	388	389	389	394	393	392	390	389	9188	382.8
30	Q	386	395	393	391	391	396	394	394	396	397	398	401	400	398	396	393	391	393	400	401	401	402	402	404	9513	396.4
Sum		11899	11944	11928	11956	11935	11962	11964	12036	12093	12176	12149	12194	12204	12150	12079	12041	12088	12133	12162	12181	12141	12061	12004	11945	289425	
Mean		396.6	398.1	397.6	398.5	397.8	398.7	398.8	401.2	403.1	405.9	405.0	406.5	406.8	405.0	402.6	401.4	402.9	404.4	405.4	406.0	404.7	402.0	400.1	398.2		402.0

Vertical component, Z, - (36000 + tabulated values) gammas

June 1961

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	550	556	557	556	556	552	548	547	543	539	530	531	521	535	541	545	545	551	552	552	552	549	550	551	13109	546.2
02 D	551	547	548	550	550	548	548	544	534	525	531	535	535	540	537	541	554	550	556	564	560	556	554	552	13110	546.3
03	552	551	550	543	535	522	525	537	535	537	540	544	546	547	547	547	548	551	551	551	550	548	547	545	13049	543.7
04	547	548	547	544	535	536	543	541	542	541	537	541	540	540	545	545	545	546	547	548	549	548	547	546	13048	543.7
05	546	545	546	545	535	531	539	542	539	541	541	545	549	549	545	543	543	544	547	546	548	547	548	547	13051	543.8
06	547	547	547	547	543	541	543	540	534	539	543	543	543	541	542	544	543	538	538	542	550	547	547	550	13039	543.3
07	547	547	545	544	544	543	533	539	534	528	532	541	544	541	537	535	539	543	541	545	550	554	555	552	13013	542.2
08	550	548	543	545	545	537	521	528	531	531	539	542	545	547	547	546	548	549	550	550	544	547	547	548	13028	542.8
09	549	547	547	546	545	544	542	542	542	541	543	543	544	544	542	545	547	548	547	547	544	547	547	548	13070	544.6
10 Q	546	544	545	543	543	541	541	540	539	541	542	541	543	544	543	543	544	544	543	543	543	545	543	543	13029	542.9
11 Q	543	543	543	543	543	542	540	540	540	540	540	540	541	541	541	541	543	544	544	544	543	541	540	540	13000	541.7
12	539	539	539	539	537	533	533	540	540	539	537	534	536	539	540	541	544	546	547	546	544	543	537	536	12948	539.5
13 Q	541	541	540	540	539	539	539	539	539	539	539	539	540	540	541	542	543	545	551	546	543	541	540	539	12985	541.0
14	539	539	539	539	538	539	537	536	536	537	539	539	539	539	540	540	541	543	543	543	540	539	537	537	12938	539.1
15	542	541	543	538	537	537	536	534	533	532	534	536	536	535	533	533	536	540	537	536	536	536	537	536	12874	536.4
16	535	538	537	541	541	540	540	540	539	538	537	537	539	540	540	535	537	541	543	543	541	536	538	540	12936	539.0
17	540	541	542	538	538	540	540	540	540	541	540	537	537	540	540	540	540	540	540	540	537	536	537	536	12940	539.2
18	540	542	543	541	540	540	531	529	529	529	534	536	539	540	543	541	541	540	537	534	536	536	538	542	12901	537.5
19	550	550	546	541	530	531	537	538	537	539	539	542	545	545	544	541	542	544	545	544	542	540	541	544	12997	541.5
20	545	543	543	540	535	539	538	536	540	540	538	540	540	540	538	536	538	540	539	536	537	536	533	529	12919	538.3
21 D	538	531	533	550	548	549	549	544	537	542	534	518	530	544	544	547	547	538	536	544	555	560	568	581	13067	544.5
22 D	573	573	555	549	535	551	527	495	497	512	517	538	527	538	549	553	553	552	547	557	557	553	553	553	13014	542.3
23	548	547	554	554	552	550	552	549	549	549	549	549	549	549	548	549	552	554	555	554	551	549	549	546	13207	550.3
24	549	543	542	544	545	545	546	547	547	547	546	545	546	548	549	548	546	547	547	548	548	547	545	545	13110	546.3
25	545	545	545	545	545	543	543	543	541	538	537	537	543	543	541	542	543	542	545	546	545	545	545	538	13021	542.5
26	547	549	548	546	545	545	543	542	542	541	541	541	543	544	544	544	541	541	546	546	545	542	542	541	13049	543.7
27	541	542	542	543	540	539	536	528	522	530	529	528	533	537	538	540	542	545	545	545	544	544	542	542	12917	538.2
28 Q	542	542	542	542	541	539	540	540	538	538	537	534	537	538	540	541	542	543	543	544	542	541	540	540	12966	540.3
29 D	541	542	544	532	501	473	505	541	549	541	542	546	545	546	549	545	544	545	545	548	546	546	545	545	12906	537.8
30 Q	545	545	545	543	543	541	541	541	542	541	541	541	541	542	542	542	541	541	544	544	543	543	543	541	13016	542.3
Sum.	16368	16356	16340	16311	16204	16150	16136	16142	16110	16116	16128	16163	16196	16256	16270	16275	16312	16337	16351	16372	16365	16338	16327	16334	390257	
Mean.	545.6	545.2	544.7	543.7	540.1	538.3	537.9	538.1	537.0	537.2	537.6	538.8	539.9	541.9	542.3	542.5	543.7	544.6	545.0	545.7	545.5	544.6	544.2	544.5		542.0

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

July 1964

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.	
1	64.3	64.1	60.4	61.1	62.2	62.9	64.2	59.3	58.0	60.8	61.6	63.3	64.5	64.5	64.8	65.0	66.1	65.6	65.5	64.7	64.4	64.4	64.5	64.7	1520.9	63.37	
2	64.4	64.4	64.5	63.9	63.1	62.7	61.9	62.5	62.4	62.8	63.0	63.4	63.9	63.9	64.1	64.8	65.7	65.3	65.0	65.3	64.1	64.4	64.3	64.1	1533.9	63.91	
3	64.2	64.1	63.9	63.7	63.7	63.3	62.2	60.4	59.7	63.0	62.2	64.6	66.5	65.2	65.4	65.3	66.2	67.1	64.4	63.9	64.4	64.0	64.3	64.4	1536.1	64.00	
4	64.5	64.6	64.3	64.0	63.0	63.4	63.6	63.4	63.4	63.7	63.3	63.8	63.5	63.6	63.6	63.8	64.2	64.3	64.4	64.1	63.8	64.6	66.0	67.1	1538.0	64.08	
5 D	65.2	64.1	60.8	61.3	55.0	56.1	55.3	56.1	56.4	62.1	63.4	64.4	65.6	67.5	67.1	66.7	67.0	66.6	66.2	65.5	64.6	64.0	60.3	65.6	1506.9	62.79	
6	61.7	63.4	64.4	65.4	62.9	64.3	63.1	64.2	64.4	63.7	63.9	64.8	64.7	64.7	64.8	65.6	67.1	68.4	65.5	64.7	64.5	64.4	64.5	64.9	1550.0	64.58	
7	63.8	63.6	64.7	62.3	64.1	64.5	64.6	66.3	64.3	63.7	63.7	65.3	64.7	64.4	64.7	64.7	65.2	65.3	65.1	64.7	64.4	64.3	64.3	64.4	1547.1	64.46	
8	64.4	64.5	62.9	60.7	63.5	63.9	64.2	62.5	61.6	64.3	63.7	63.1	64.1	65.1	65.4	65.4	65.4	66.2	65.6	65.4	64.7	64.5	65.3	65.0	1541.4	64.23	
9	63.1	64.6	64.4	63.6	61.3	58.2	61.7	59.7	63.6	63.7	65.3	65.6	65.2	64.7	64.7	65.5	66.4	66.2	64.8	64.6	64.4	64.2	64.2	64.3	1534.0	63.92	
10	64.4	63.6	63.2	62.3	61.7	57.6	59.1	59.7	61.8	61.9	63.2	62.5	65.0	64.5	65.0	65.9	67.4	66.2	65.2	64.7	64.5	64.9	64.6	65.2	1524.1	63.50	
11 Q	64.7	64.7	61.5	63.3	62.5	63.6	63.3	63.5	64.2	63.3	64.6	64.8	64.8	64.5	64.5	65.0	66.0	66.7	65.9	65.0	64.5	64.3	64.6	65.0	1544.3	64.37	
12 Q	65.6	65.1	64.2	64.0	63.6	63.5	63.0	59.1	60.7	62.5	64.0	64.6	64.5	64.4	64.4	64.6	65.3	66.0	65.6	64.5	64.2	64.3	64.4	64.4	1536.5	64.02	
13 D	64.4	64.4	64.4	63.8	63.1	63.1	63.4	63.4	63.3	63.1	64.4	65.6	71.1	63.5	59.7	59.3	64.9	64.5	68.0	72.8	67.2	70.2	70.2	65.1	1562.9	65.12	
14 D	66.3	62.9	62.4	62.4	62.4	62.2	61.8	62.0	59.8	57.6	63.2	64.8	69.6	72.0	70.1	74.4	74.6	69.6	71.0	67.2	62.7	66.0	66.0	63.2	1574.2	65.59	
15	65.5	65.7	64.1	63.2	60.4	57.5	56.7	62.5	62.7	62.6	63.2	65.5	67.0	67.8	68.1	67.9	68.1	67.7	67.3	66.7	66.7	67.6	66.4	66.4	1557.3	64.99	
16	69.6	60.9	60.9	62.9	65.9	64.0	64.5	64.5	65.6	66.2	66.4	65.5	64.8	65.6	66.8	66.4	66.5	66.2	66.0	66.2	65.7	65.5	65.6	65.5	1567.7	65.32	
17	65.0	63.6	62.6	63.2	65.5	65.0	64.3	63.4	64.2	65.0	66.8	69.3	70.1	69.0	68.5	65.6	65.6	66.4	66.7	66.0	71.4	63.6	67.0	67.1	1584.9	66.04	
18 D	61.8	62.6	61.6	57.1	62.1	53.3	49.8	60.8	61.8	65.9	65.3	65.4	81.0	77.5	74.5	69.1	72.8	73.6	71.9	71.1	71.0	69.1	64.5	69.0	1592.6	66.36	
19	63.8	62.4	62.7	61.8	63.0	65.6	65.4	65.5	65.5	65.5	65.5	65.5	65.5	64.9	65.5	65.8	65.9	66.3	66.2	65.7	65.3	65.1	65.1	64.9	1558.4	64.93	
20	65.0	65.2	65.2	64.9	63.7	63.6	61.9	58.2	64.4	65.0	64.8	64.5	64.4	64.1	64.1	64.5	65.3	65.3	64.5	63.8	63.8	64.8	66.3	60.3	1537.6	64.07	
21	64.4	59.9	52.0	60.1	52.1	51.1	52.5	62.6	59.5	61.0	63.6	64.6	67.2	68.2	69.0	69.1	68.9	70.1	69.1	67.8	66.8	65.6	65.0	65.2	1515.4	63.14	
22	65.0	65.2	64.6	64.3	63.9	61.9	64.2	61.9	57.6	58.8	63.9	64.5	64.9	64.7	65.9	66.2	66.2	66.1	66.1	65.4	64.6	64.8	64.8	65.0	1540.5	64.19	
23	65.3	65.3	64.9	64.5	64.2	64.2	64.4	64.3	63.9	63.6	64.4	63.1	63.3	63.9	66.2	67.9	67.8	67.0	66.4	65.7	66.3	65.9	65.6	65.9	1564.0	65.17	
24	66.4	65.4	63.4	62.6	62.3	59.5	60.5	62.9	61.8	64.4	62.7	64.6	65.8	65.9	65.0	66.9	66.3	65.9	65.7	65.5	65.1	64.9	65.6	66.3	1546.4	64.43	
25	66.0	66.0	62.1	58.0	56.9	60.5	63.4	61.1	61.8	63.6	62.5	64.9	64.4	65.0	65.0	65.2	65.4	65.2	64.9	64.5	64.5	64.5	64.6	64.3	1524.3	63.53	
26	59.9	62.6	64.8	59.1	59.8	62.9	62.7	63.6	63.2	63.2	64.1	63.6	63.6	63.9	64.9	65.4	65.9	65.9	65.5	64.5	64.1	66.8	66.4	67.4	1533.8	63.91	
27 D	65.5	65.9	65.6	62.7	61.8	59.9	59.3	61.1	51.7	72.3	78.8	76.5	72.3	69.1	70.2	69.9	69.1	69.9	71.5	70.2	69.7	48.0	65.5	67.3	1594.8	66.45	
28	65.7	62.8	63.1	64.9	65.3	66.7	65.3	66.3	67.6	67.3	66.5	66.3	66.2	65.5	65.5	67.2	68.1	68.0	66.9	65.9	64.2	65.5	65.5	65.5	1581.8	65.91	
29 Q	65.2	65.4	64.9	63.7	62.6	60.5	63.7	65.4	65.6	65.9	65.3	65.0	64.6	64.6	65.1	65.6	66.1	66.5	66.1	65.4	64.5	64.5	64.7	65.0	1555.9	64.83	
30 Q	63.7	64.7	64.4	64.4	64.5	65.5	64.7	66.6	64.1	65.1	65.9	66.2	65.6	64.7	64.7	65.1	65.5	65.6	65.9	65.6	64.0	64.2	64.2	64.2	1559.1	64.96	
31 Q	64.6	64.6	64.5	64.4	64.3	64.1	64.0	64.1	64.1	64.0	63.9	64.5	65.2	64.6	64.7	64.3	65.6	66.1	66.0	66.8	65.8	65.1	65.1	65.5	1556.4	64.85	
Sum.																									48022.2		
1000+		+86.3	957.4	943.6	930.4	915.1	918.7	936.9	928.7	976.1																	
2000+	003.4										003.1	020.1	054.1	041.5	043.0	048.6	070.6	069.8	058.9	043.9	025.9	004.0	019.4	022.7			
Mean.	64.63	64.07	63.14	62.70	62.27	61.78	61.89	62.48	62.22	63.75	64.62	65.16	66.26	65.85	65.90	66.08	66.79	66.77	66.42	65.93	65.35	64.65	65.14	65.25		64.55	

Horizontal component, H, 23000 gammas + tabulated value.

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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		400	401	399	389	392	394	406	406	396	401	407	398	404	402	402	401	401	399	403	407	406	404	402	402	9622	400.9
02		398	400	400	397	397	397	398	405	409	402	407	409	413	412	413	413	409	415	418	422	414	409	412	410	9779	407.5
03		413	413	410	410	408	405	411	410	407	404	410	415	427	410	405	402	406	415	418	417	410	406	406	405	9843	410.1
04		403	404	404	401	402	404	405	408	410	414	418	417	422	419	419	414	411	413	419	423	425	403	381	372	9811	408.8
05	D	363	377	350	334	335	341	361	357	366	380	377	379	384	397	395	380	387	396	397	391	392	384	383	390	8996	374.8
06		399	393	387	413	390	393	390	399	401	398	397	396	396	395	391	378	361	378	400	403	400	399	397	395	9449	393.7
07		380	378	395	385	389	389	398	396	397	401	395	395	401	398	389	389	393	399	404	404	404	407	405	405	9496	395.7
08		403	400	394	399	395	398	401	403	396	406	403	406	404	398	401	396	397	404	409	404	406	406	403	397	9629	401.2
09		406	403	403	403	404	387	390	405	395	401	402	405	405	402	399	396	394	405	410	409	408	406	406	405	9649	402.0
10		407	391	392	394	412	386	389	403	393	387	400	399	397	394	390	393	391	404	406	406	406	400	395	399	9534	397.3
11	Q	399	400	396	393	392	395	397	399	403	401	403	404	404	403	398	397	400	403	411	414	412	410	406	403	9643	401.2
12	Q	397	397	400	404	403	404	407	412	401	397	401	402	402	399	399	399	403	408	411	411	410	409	408	407	9691	403.8
13	D	405	405	405	400	399	400	401	401	402	401	405	437	423	466	362	402	398	375	374	370	381	393	396	379	9580	399.2
14	D	379	379	379	383	385	385	383	379	374	390	352	353	354	310	317	326	326	356	358	353	352	364	368	358	8663	361.0
15		364	360	349	344	345	346	346	353	357	361	369	378	372	368	368	374	372	376	383	379	352	342	342	342	8642	360.1
16		342	349	324	345	366	377	382	379	376	379	383	387	393	386	380	384	388	385	363	375	380	383	388	385	8979	374.1
17		373	371	371	371	393	393	399	392	392	396	400	407	405	399	395	387	385	390	400	386	362	330	350	357	9204	383.5
18	D	345	347	339	367	379	377	326	364	367	377	384	388	436	371	354	340	333	326	334	352	352	345	348	330	8581	357.5
19		345	332	326	317	345	369	369	370	373	374	377	378	378	376	372	368	368	375	379	384	387	386	386	381	8815	367.3
20		387	388	390	395	396	404	414	396	387	387	391	394	394	393	393	394	390	398	401	396	387	387	365	383	9410	392.1
21		383	358	315	343	393	328	359	354	386	381	392	392	388	390	358	356	370	370	379	384	386	388	390	390	8933	372.2
22		396	383	389	389	389	385	392	385	406	390	385	381	384	384	383	383	389	398	400	399	398	397	395	392	9371	390.5
23		390	391	393	391	393	394	393	395	397	399	406	404	407	408	386	380	396	393	393	398	393	386	377	383	9446	393.6
24		373	371	380	379	395	381	388	387	385	402	394	396	390	391	384	385	394	400	406	408	406	402	403	398	9398	391.6
25		395	397	393	364	363	372	399	396	385	402	389	393	396	396	396	394	395	402	406	406	402	398	398	402	9439	393.3
26		389	387	387	399	391	394	390	392	393	393	394	397	397	393	388	389	393	397	400	407	428	407	410	403	9518	396.6
27	D	405	408	405	404	401	397	392	392	379	440	340	333	320	314	330	333	330	330	301	325	328	311	344	347	8617	359.0
28		339	347	363	381	360	370	371	366	370	386	375	376	376	371	362	354	360	367	378	377	357	370	377	377	8830	367.9
29	Q	375	376	380	377	394	371	373	376	376	377	381	383	385	389	383	381	385	392	395	393	389	388	387	385	9191	383.0
30	Q	385	383	381	386	389	393	396	395	395	393	396	399	402	396	390	384	383	386	389	386	381	389	393	394	9364	390.2
31	Q	393	396	395	397	396	398	396	395	396	398	397	398	400	395	393	393	392	397	399	389	393	394	393	398	9491	395.5
Sum		11931	11891	11794	11854	11991	11927	12022	12070	12070	12218	12130	12199	12259	12125	11888	11865	11908	12052	12144	12178	12107	12003	12014	11974	288614	
Mean		384.9	383.6	380.5	382.4	386.8	384.7	387.8	389.4	389.4	394.1	391.3	393.5	395.5	391.1	383.5	382.7	384.1	388.8	391.7	392.8	390.5	387.2	387.5	386.3		387.9

Vertical component, Z, - (36000 + tabulated values) gammas

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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.	
Date																											
01	542	543	537	538	539	532	528	523	524	531	532	531	538	540	539	540	540	540	542	543	542	541	539	539	12883	536.8	
02	540	540	541	540	541	536	532	534	526	533	539	539	540	539	539	537	536	539	540	540	537	537	539	539	12903	537.6	
03	540	539	538	537	537	536	533	521	524	533	535	527	529	531	532	534	536	538	541	540	538	536	537	536	12828	534.5	
04	536	538	538	538	539	540	540	540	540	540	540	537	540	537	536	535	532	533	535	538	538	529	527	536	12882	536.8	
05 D	544	547	527	541	529	537	529	533	528	541	541	544	544	550	548	544	548	552	552	548	549	547	548	549	13020	542.5	
06	549	544	544	541	535	542	540	540	538	540	540	541	543	545	543	537	528	540	555	554	550	548	545	544	13026	542.2	
07	540	544	543	541	543	536	535	524	538	542	536	537	541	542	540	543	543	544	545	544	543	543	542	541	12970	540.4	
08	541	541	539	541	537	539	535	527	524	531	534	537	537	538	541	540	541	543	543	540	541	541	540	539	12910	537.9	
09	543	540	540	540	535	528	523	525	533	537	536	537	539	540	539	539	538	541	543	543	541	539	539	539	12897	537.4	
10	539	537	539	540	524	518	517	512	524	523	528	528	535	539	540	540	539	543	546	545	544	540	537	539	12816	537.0	
11 Q	540	541	539	539	539	539	539	539	539	535	536	538	539	539	539	539	539	540	543	544	543	540	538	536	12942	539.3	
12 Q	537	538	539	540	539	539	535	524	522	524	531	535	537	537	536	537	539	539	541	540	539	538	536	535	12857	535.7	
13 D	536	536	535	535	535	535	535	535	534	531	532	541	522	549	508	543	540	514	519	547	560	556	564	571	12913	538.0	
14 D	576	574	562	551	548	547	546	545	503	361	333	407	439	496	528	539	539	564	569	583	587	583	579	572	12631	526.3	
15	568	563	561	561	557	545	533	533	528	529	534	537	539	542	547	551	550	552	554	552	543	552	558	568	13157	545.2	
16	576	533	537	561	561	544	548	544	544	546	548	552	551	548	546	548	549	548	538	549	555	556	555	552	13139	549.5	
17	548	546	544	544	546	538	542	543	544	544	533	522	524	531	536	544	544	546	548	540	542	563	560	565	13037	543.2	
18 D	562	545	549	547	511	442	461	541	542	552	553	539	500	537	515	532	541	556	565	580	581	560	575	580	12986	541.1	
19	565	549	557	553	568	567	561	561	559	556	555	555	553	552	551	548	547	548	549	552	553	551	550	548	13308	554.5	
20	548	550	548	551	552	544	524	517	530	541	544	545	544	544	545	544	540	541	544	542	537	539	539	545	12998	541.6	
21	546	543	527	538	502	490	500	466	498	531	536	537	536	533	535	540	550	548	552	559	558	555	553	551	12786	532.8	
22	550	546	545	544	543	538	531	522	521	523	533	535	538	538	534	537	542	544	543	544	542	542	541	539	12915	538.1	
23	539	539	539	539	539	539	538	538	539	538	535	533	537	535	529	522	538	541	540	543	541	538	539	543	12907	537.2	
24	546	549	550	548	540	518	533	539	533	532	525	533	532	535	538	539	540	541	543	543	540	537	537	537	12908	537.6	
25	538	543	528	524	529	532	530	529	526	528	528	537	537	539	537	536	536	538	538	537	536	533	533	536	12808	533.7	
26	535	534	538	537	528	535	532	534	534	532	530	533	535	536	535	538	538	540	541	542	550	533	538	550	12878	536.6	
27 D	551	555	553	547	541	534	529	531	464	303	225	403	531	550	559	562	563	554	544	559	567	579	580	574	12458	519.1	
28	566	559	554	543	535	535	526	539	538	534	542	547	548	548	547	542	548	551	555	554	542	552	554	550	13109	546.2	
29 Q	550	549	548	547	537	528	536	540	540	542	543	544	544	548	547	545	547	548	548	547	543	543	543	540	13047	543.6	
30 Q	541	542	540	542	543	540	535	529	532	535	535	537	541	541	539	535	534	535	539	539	543	544	543	543	12923	538.5	
31 Q	539	539	538	538	538	536	537	535	535	535	535	534	535	536	536	537	535	535	538	534	538	540	540	541	12884	536.8	
Sum.	16973	16886	16817	16826	16690	16509	16453	16463	16404	16203	16127	16402	16548	16715	16684	16753	16790	16836	16893	16965	16959	16954	16949	16977	400776		
Mean.	547.5	544.7	542.5	542.8	538.4	532.5	531.1	531.1	529.2	522.7	520.2	529.1	533.8	539.2	538.2	540.4	541.3	543.1	544.9	547.3	547.1	546.9	547.7	547.6		538.7	

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

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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.	
Date																											
1	65.4	65.2	62.4	61.6	63.3	63.5	63.6	63.7	63.6	63.8	63.9	64.0	63.8	63.8	63.9	64.5	65.1	65.3	65.6	65.1	64.5	64.7	64.8	65.4	1540.5	64.19	
2 D	63.1	58.9	63.4	61.5	59.3	50.4	55.9	56.8	56.5	56.4	61.5	64.0	64.8	66.7	67.2	67.3	66.8	67.1	66.7	67.2	66.5	66.2	64.2	63.5	1501.9	62.58	
3	63.5	65.0	64.3	63.4	59.6	59.6	63.3	64.3	63.6	66.5	64.7	64.2	65.1	66.5	66.2	67.1	67.2	67.2	66.6	66.4	65.8	65.7	64.8	62.1	1552.7	64.70	
4 D	62.5	60.0	60.6	62.6	62.7	64.5	62.5	62.4	64.2	64.8	64.2	65.7	64.4	64.2	64.2	64.6	65.3	64.8	65.7	65.4	65.4	64.5	64.3	64.3	1533.8	63.91	
5	64.3	64.2	63.2	63.8	62.5	60.8	60.4	62.5	62.6	65.1	63.0	63.2	63.5	63.6	64.5	64.5	65.6	66.2	66.2	66.0	65.1	64.4	65.1	65.1	1535.4	63.98	
6	63.9	64.1	64.0	63.4	63.4	63.3	63.4	64.1	64.6	64.5	64.2	64.2	63.4	63.0	63.5	64.2	65.6	66.1	66.2	65.4	64.8	64.3	64.3	64.2	1542.1	64.25	
7 Q	64.2	64.2	64.2	63.8	63.5	63.4	63.6	63.4	63.7	63.9	63.9	63.4	63.5	63.2	63.3	64.3	65.0	65.4	65.4	65.1	64.3	64.2	63.8	63.8	1536.5	64.02	
8	63.8	64.2	63.8	63.2	60.9	60.0	59.7	59.8	58.9	62.5	61.7	62.2	63.9	63.4	63.5	64.8	65.7	66.1	66.7	68.5	66.6	65.3	64.8	64.3	1524.3	63.51	
9 Q	64.2	64.2	62.8	62.2	62.5	63.3	62.5	62.8	63.6	63.5	63.9	63.8	63.8	64.0	63.9	64.8	65.3	66.2	66.6	65.9	65.1	64.7	64.8	64.8	1539.2	64.13	
10	64.7	64.2	63.1	63.2	62.8	57.3	56.2	60.1	58.1	58.0	59.0	61.1	63.8	65.1	67.0	67.7	67.2	67.6	67.9	67.7	66.6	66.2	66.2	65.9	1526.7	63.61	
11 D	66.2	67.1	64.3	55.1	58.6	63.2	63.4	62.9	63.1	61.9	58.8	60.6	56.1	66.4	68.3	68.3	68.0	68.4	68.5	68.0	68.9	68.3	66.9	62.5	1553.8	64.74	
12	64.8	64.6	64.3	61.7	59.5	61.2	62.9	64.7	64.1	64.2	64.1	63.6	63.3	63.0	63.2	64.3	65.5	66.2	65.9	65.4	64.9	64.3	63.1	63.4	1532.2	63.84	
13 Q	64.2	63.3	61.9	62.7	63.7	63.4	63.5	63.5	63.5	63.4	63.5	63.5	63.1	62.7	62.9	63.9	65.0	65.8	65.9	65.3	64.6	64.2	64.2	64.2	1531.9	63.83	
14	64.2	64.0	64.1	64.0	63.9	63.6	63.7	63.6	63.4	63.3	63.4	62.7	64.3	63.4	63.2	64.2	65.4	66.5	66.2	65.1	64.3	64.1	64.1	64.2	1538.9	64.12	
15	64.2	64.0	63.7	63.4	63.4	63.4	62.5	59.1	61.5	63.0	63.3	63.3	63.1	63.1	63.3	64.1	65.1	66.3	66.1	65.8	65.1	64.5	64.3	64.0	1529.6	63.73	
16	60.2	62.8	62.9	63.0	61.9	62.5	63.0	63.5	63.7	63.7	63.5	63.4	62.7	62.3	63.0	64.2	65.3	66.2	66.0	65.3	64.5	64.2	64.2	64.3	1526.3	63.60	
17	63.5	63.8	63.8	63.5	63.3	63.3	63.0	62.7	62.8	63.3	64.2	63.8	63.0	62.5	62.8	63.6	64.4	65.2	65.6	65.6	65.3	65.4	64.8	64.5	1533.7	63.90	
18	64.7	64.2	63.6	63.4	63.3	63.0	62.8	62.7	62.7	62.9	63.1	62.9	62.4	61.7	62.1	63.5	64.4	65.3	65.6	64.9	64.0	63.5	63.4	63.6	1523.7	63.49	
19	64.1	64.1	63.8	63.3	62.0	57.6	58.3	55.0	57.1	61.1	62.1	61.9	63.8	64.9	65.0	65.4	66.4	66.6	66.6	66.2	65.2	64.7	64.7	64.7	1514.6	63.11	
20	64.2	64.2	64.0	63.8	63.4	63.4	63.6	63.7	63.7	63.6	64.2	63.9	62.8	62.5	63.0	64.5	66.2	67.1	67.7	66.5	66.0	64.6	64.3	64.3	1545.2	64.38	
21	63.9	63.9	63.7	63.2	62.8	63.2	63.5	63.5	63.2	63.1	63.2	63.3	63.4	63.0	63.0	64.2	65.2	65.7	66.1	65.6	64.4	63.9	63.7	63.8	1532.5	63.85	
22 Q	63.5	63.6	63.2	63.3	63.3	63.4	63.4	63.3	63.3	63.5	63.5	63.3	62.6	61.9	62.0	63.2	64.5	65.3	65.6	65.4	64.6	63.9	63.3	63.2	1526.1	63.59	
23 Q	63.8	63.7	63.3	63.0	63.0	62.9	62.5	63.0	63.1	63.5	62.9	63.3	63.1	62.3	62.6	63.4	64.5	65.8	66.0	65.4	64.6	64.3	64.1	63.7	1527.8	63.66	
24	63.4	63.2	63.1	63.1	63.0	62.9	62.8	62.7	62.8	63.0	63.0	62.5	61.9	61.3	61.5	62.6	63.5	64.8	65.3	64.8	63.9	63.8	64.2	63.9	1517.0	63.21	
25	64.1	63.2	63.1	63.0	62.6	62.4	61.9	62.2	62.5	62.8	62.9	62.8	62.2	61.6	63.4	64.2	64.7	65.4	66.0	65.4	64.3	63.8	64.2	64.2	1522.9	63.45	
26	64.2	63.4	63.1	58.5	58.2	58.7	61.5	61.1	61.9	63.4	63.4	62.8	62.3	61.6	61.8	63.0	64.3	65.3	65.5	65.1	65.1	65.8	65.3	67.1	1512.4	63.02	
27	66.0	64.4	64.0	63.8	63.0	61.6	59.2	57.9	62.4	63.2	63.0	63.0	62.7	62.5	63.0	64.0	65.1	65.9	66.0	65.5	65.0	64.3	63.9	64.2	1523.6	63.48	
28	63.0	63.7	63.3	61.4	62.7	63.4	63.4	63.6	63.6	63.7	63.4	63.4	63.0	62.6	62.9	63.5	64.5	65.4	65.7	65.3	64.8	64.8	64.8	64.2	1530.1	63.75	
29	64.1	63.3	63.1	62.5	63.4	63.4	63.2	63.1	63.1	63.0	62.9	62.9	62.2	61.9	62.5	63.8	65.1	66.2	68.4	69.7	68.8	66.6	65.6	68.1	1546.9	64.45	
30 D	65.8	64.2	59.4	58.8	58.6	61.3	62.5	62.8	62.0	63.0	61.9	67.1	73.8	69.0	67.0	67.1	69.7	71.4	67.7	67.7	66.7	66.4	66.1	67.6	1567.6	65.32	
31 D	64.9	63.3	58.3	58.1	60.8	59.4	61.5	61.4	63.9	63.4	62.7	63.1	63.7	64.0	64.7	65.8	66.3	68.3	67.9	66.9	66.8	64.8	63.1	58.3	1521.4	63.39	
Sum.																									47491.3		
1000+	986.6	976.2	955.8	931.3	924.9	913.3	923.2	925.9	936.8	955.0	953.0	962.9	975.5	967.7	978.4									999.4	991.4		
2000+																004.6	031.9	055.1	057.9	047.6	026.5	010.4					
Mean.	64.08	63.75	63.09	62.30	62.09	61.72	62.04	62.13	62.48	63.06	63.00	63.32	63.73	63.47	63.82	64.66	65.55	66.29	66.38	66.05	65.37	64.85	64.50	64.24		63.83	

Horizontal component, H, 23000 gammas + tabulated value.

August 1961

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		393	390	387	392	398	401	401	399	396	396	398	400	400	397	393	393	398	398	403	406	402	398	402	407	9548	397.8
02	D	366	351	386	391	417	383	341	357	380	379	379	375	374	380	385	383	375	385	388	387	393	380	387	386	9108	379.5
03		376	385	389	389	373	379	382	384	372	384	384	390	385	382	383	381	383	385	382	388	392	382	386	393	9209	383.7
04	D	381	409	359	374	378	388	392	393	387	392	388	389	391	387	375	375	384	391	392	396	390	388	389	393	9281	386.7
05		395	395	396	397	401	401	391	392	394	401	406	402	402	397	391	387	388	392	395	392	395	396	398	391	9495	395.6
06		388	398	398	398	401	401	398	399	400	401	404	403	400	394	386	385	382	388	394	396	399	398	393	397	9501	395.9
07	Q	399	400	400	400	399	399	400	401	402	403	404	404	402	399	391	388	391	395	400	404	404	404	400	400	9589	399.5
08		403	403	404	401	395	391	414	400	407	407	410	414	397	395	398	392	391	387	381	374	385	388	391	394	9522	396.8
09	Q	395	394	388	383	387	396	401	394	393	397	399	401	398	397	392	388	388	390	397	402	403	401	401	400	9485	395.2
10		400	400	389	409	393	387	379	380	386	406	404	411	397	386	384	390	385	389	397	401	398	398	397	400	9466	394.4
11	D	394	388	377	386	392	396	395	393	390	402	396	397	407	425	407	402	405	400	392	381	371	360	369	356	9381	390.9
12		382	388	388	396	390	394	390	397	394	396	397	397	398	394	387	379	381	390	399	404	399	400	388	396	9424	392.7
13	Q	398	391	382	391	395	399	399	398	397	400	400	401	401	399	394	389	387	392	397	403	404	400	400	400	9517	396.5
14		400	403	404	404	404	404	402	405	409	408	409	412	412	411	398	398	399	402	407	403	402	402	401	400	9699	404.1
15		404	404	405	405	405	405	418	405	403	401	408	409	408	402	397	392	389	390	391	397	400	396	396	394	9624	401.0
16		401	400	400	401	418	405	404	401	403	404	405	407	404	396	387	387	389	391	400	404	405	403	400	396	9611	400.5
17		397	400	404	408	407	407	409	410	405	406	411	414	408	400	394	393	398	404	405	402	398	395	398	400	9673	403.0
18		403	407	407	405	408	408	407	405	405	404	409	409	408	405	396	394	397	404	409	411	411	410	410	411	9743	406.0
19		411	411	402	397	404	389	390	397	383	391	404	409	400	387	376	375	375	383	392	397	399	399	399	397	9467	394.5
20		395	395	396	396	400	398	397	397	398	399	404	404	398	385	374	373	371	376	390	394	392	393	394	393	9412	392.2
21		395	397	398	401	405	406	407	406	402	400	402	403	402	395	389	385	385	387	392	399	405	403	403	402	9569	398.7
22	Q	402	402	401	403	404	405	406	407	406	409	412	412	409	399	390	388	389	393	393	398	402	402	401	401	9634	401.4
23	Q	401	402	402	402	404	408	405	405	407	411	411	407	406	398	387	384	385	389	394	402	402	402	403	406	9623	401.0
24		407	409	410	410	410	410	411	411	410	411	413	416	413	407	400	399	400	402	404	413	415	409	409	410	9809	408.7
25		404	400	402	411	413	413	409	414	411	414	418	411	404	393	381	383	390	392	396	400	403	404	400	403	9669	402.9
26		404	409	408	409	408	411	411	414	409	408	413	415	410	404	398	394	396	398	406	414	404	391	383	385	9702	404.3
27		375	391	396	399	401	400	408	396	391	397	400	401	399	394	388	386	384	389	396	398	400	402	400	399	9490	395.4
28		391	400	403	407	402	404	403	404	401	403	404	406	404	400	396	396	395	395	399	401	399	394	399	400	9606	400.3
29		401	399	402	404	405	406	406	404	404	407	408	408	406	400	400	385	390	403	395	370	382	395	399	381	9560	398.3
30	D	360	369	384	412	403	397	395	396	394	407	420	403	390	395	367	351	349	368	378	383	383	373	369	373	9219	384.1
31	D	375	369	360	364	361	376	383	369	389	386	384	383	378	380	371	373	373	363	362	377	379	383	370	384	8992	374.7
Sum		12196	12259	12227	12345	12381	12367	12354	12333	12328	12430	12504	12513	12411	12283	12055	11968	11989	12114	12226	12297	12316	12249	12235	12248	294628	
Mean		393.4	395.5	394.4	398.2	399.4	398.9	398.5	397.8	397.7	401.0	403.4	403.6	400.4	396.2	388.9	386.1	386.7	390.8	394.4	396.7	397.3	395.1	394.7	395.1		396.0

Vertical component, Z, - (36000 + tabulated values) gammas

August 1961

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.	
Date																											
01	542	544	544	536	540	540	538	536	535	534	535	536	536	536	535	533	535	536	538	540	537	535	536	539	12896	537.3	
02 D	534	545	553	547	516	464	447	503	495	528	537	533	532	529	536	537	534	542	544	542	545	542	545	544	12674	528.1	
03	541	543	542	536	513	513	529	533	519	537	543	543	537	537	541	537	537	539	539	545	545	541	546	545	12881	536.7	
04 D	543	532	522	537	539	530	519	530	532	538	533	536	540	537	531	533	537	537	537	538	536	537	538	538	12830	534.6	
05	540	538	538	537	532	526	519	526	526	524	511	523	530	533	530	532	533	532	533	533	536	537	538	536	12743	531.0	
06	538	540	539	538	535	534	531	531	531	533	534	534	535	533	531	533	533	535	535	538	539	538	534	537	12839	535.0	
07 Q	535	535	534	534	533	533	532	531	530	531	531	531	531	534	529	526	528	530	533	535	535	534	532	531	12768	532.0	
08	534	533	533	533	531	527	510	514	523	516	510	514	525	530	534	531	528	527	527	523	534	539	540	539	12655	527.3	
09 Q	537	535	533	532	534	534	527	529	531	532	532	531	530	529	529	529	529	533	534	538	539	537	534	534	12782	532.6	
10	534	534	531	532	534	527	520	512	509	514	515	517	517	520	521	526	530	534	537	539	540	539	538	539	12659	527.5	
11 D	543	548	545	540	529	539	536	534	529	520	517	520	516	516	523	528	530	529	529	532	533	536	543	540	12755	531.5	
12	548	545	542	536	525	528	529	532	533	524	535	535	535	535	533	531	532	536	540	541	537	536	532	535	12835	534.8	
13 Q	536	533	531	535	535	535	533	532	532	532	532	532	532	531	528	527	526	528	533	536	536	534	532	532	12773	532.2	
14	533	533	533	531	531	531	530	531	529	528	530	531	531	530	525	521	519	521	528	529	532	531	531	530	12699	529.1	
15	532	531	531	530	530	529	517	505	517	524	528	529	529	528	522	517	517	520	525	532	535	533	532	532	12625	526.0	
16	532	530	530	527	523	521	525	526	527	528	528	529	529	528	524	521	521	525	530	533	533	531	529	528	12658	527.4	
17	529	530	530	531	529	529	529	528	525	523	519	521	522	522	521	521	521	521	523	525	525	525	528	529	12606	525.3	
18	530	530	530	527	528	527	526	525	525	524	524	525	525	527	524	521	521	524	526	529	530	529	527	528	12632	526.3	
19	527	527	523	523	524	510	515	510	509	520	517	513	515	518	519	521	527	530	531	534	532	531	531	530	12537	522.4	
20	531	531	534	531	531	529	529	529	529	529	529	525	524	525	523	523	522	525	534	537	538	538	537	534	12717	529.9	
21	534	535	533	534	531	529	525	525	526	526	529	529	529	529	526	525	525	526	529	533	536	533	532	528	12707	529.5	
22 Q	529	529	528	528	528	527	526	526	526	526	527	527	527	525	522	519	518	521	522	526	530	529	527	527	12620	525.8	
23 Q	527	527	526	526	526	525	523	523	524	525	525	525	526	526	522	520	519	522	526	529	529	529	529	529	12608	525.3	
24	530	528	527	526	526	525	524	523	523	523	524	526	526	524	520	518	518	518	520	526	528	525	523	524	12575	524.0	
25	524	525	526	530	528	527	522	522	519	519	522	520	522	520	513	518	523	522	524	527	530	530	526	526	12565	523.5	
26	527	530	529	524	519	518	522	519	519	517	521	522	520	519	514	512	514	519	523	527	524	519	520	526	12504	521.0	
27	530	530	532	532	530	523	515	510	521	525	525	526	525	524	522	518	518	521	526	528	529	530	527	525	12592	524.7	
28	525	528	529	523	525	526	525	524	523	523	524	524	523	520	518	517	516	519	522	525	526	523	526	526	12560	523.3	
29	526	526	526	526	526	526	525	524	523	523	524	523	522	520	518	516	518	523	518	513	524	535	536	535	12576	524.0	
30 D	535	542	542	525	521	525	527	529	525	520	506	501	497	501	510	507	511	527	536	542	543	543	541	545	12601	525.0	
31 D	542	538	530	520	500	499	520	502	504	527	532	532	531	530	527	524	523	520	526	539	540	544	539	540	12629	526.2	
Sum.	16548	16555	16526	16467	16352	16256	16195	16224	16219	16293	16299	16313	16319	16316	16271	16242	16263	16342	16428	16514	16556	16543	16529	16531	393101		
Mean.	533.8	534.0	533.1	531.2	527.5	524.4	522.4	523.4	523.2	525.6	525.8	526.2	526.4	526.3	524.9	523.9	524.6	527.2	530.0	532.7	534.1	533.6	533.2	533.3		528.4	

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

September 1961

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.	
Date																											
1 D	60.5	63.5	63.9	62.0	64.5	63.9	62.9	58.1	59.7	61.3	65.5	66.2	63.7	63.2	64.1	66.0	66.8	68.3	69.6	67.9	67.5	66.8	61.7	63.7	1541.3	64.22	
2	65.1	64.5	64.5	63.5	63.1	63.9	63.1	64.8	63.1	63.9	65.9	63.1	63.2	63.8	64.3	65.2	66.4	66.4	66.1	65.8	65.2	64.6	64.2	62.5	1546.2	64.43	
3	61.3	64.1	63.9	63.8	64.4	60.2	63.9	62.0	62.9	63.0	63.1	64.2	62.9	62.1	62.5	64.1	66.1	67.7	68.2	67.7	65.9	65.2	64.6	64.4	1538.2	64.09	
4	64.3	64.1	63.7	63.5	63.5	63.2	63.2	65.4	63.8	64.0	63.1	63.0	62.9	62.9	62.8	64.2	65.9	66.7	66.5	66.3	65.2	64.4	64.1	64.3	1541.0	64.21	
5	63.8	60.2	60.4	63.1	63.3	64.3	63.5	63.3	62.6	62.0	62.8	62.4	62.0	61.9	63.1	64.2	65.5	66.5	68.1	67.3	66.9	66.0	65.2	64.8	1533.2	63.88	
6	64.1	63.9	62.9	62.8	60.4	61.3	63.2	63.6	63.7	63.2	63.0	62.8	61.8	61.6	62.4	64.2	66.1	67.0	66.9	66.0	65.0	64.3	64.2	64.2	1528.6	63.69	
7 Q	64.1	63.7	63.2	63.2	63.3	63.1	62.9	62.8	62.5	62.8	62.9	62.5	61.6	60.9	61.9	63.6	65.3	66.7	67.0	66.3	65.2	64.3	64.1	63.9	1527.8	63.66	
8 Q	63.8	63.7	63.6	63.4	63.1	63.1	62.9	62.6	62.5	62.5	62.4	62.2	61.3	60.8	61.9	63.8	65.8	66.8	67.4	66.4	65.1	64.2	64.0	64.1	1527.4	63.64	
9	64.0	63.5	62.8	61.9	62.3	63.0	63.1	57.8	59.5	61.7	62.4	61.0	61.5	60.8	61.7	63.7	66.0	66.9	67.4	66.7	65.7	64.6	64.7	64.0	1516.7	63.20	
10	63.3	62.9	60.0	62.9	63.9	63.8	63.7	63.7	63.6	63.4	63.2	62.4	61.9	61.2	61.9	63.6	65.6	67.0	67.1	66.8	66.4	64.7	64.3	64.2	1532.0	63.83	
11	63.8	63.7	63.7	63.5	62.8	61.9	60.9	62.0	61.9	60.9	61.5	61.3	61.3	61.5	61.8	63.1	65.3	67.7	68.8	68.6	66.7	68.0	67.2	67.1	1535.0	63.96	
12	65.4	65.1	64.2	62.3	61.1	53.5	57.0	58.9	64.2	63.8	62.7	64.8	65.1	63.1	63.4	64.6	66.0	67.5	68.0	67.6	66.9	65.9	65.4	61.7	1528.2	63.68	
13	64.2	63.9	63.8	62.6	61.9	61.8	62.4	62.3	62.7	62.8	63.0	62.6	61.9	61.8	62.4	63.8	65.5	66.4	63.3	68.2	67.3	66.9	66.9	66.0	1534.4	63.93	
14 D	60.7	61.7	63.1	63.0	60.5	54.8	58.9	60.8	63.5	60.8	61.2	60.1	60.1	65.6	65.8	64.9	66.5	67.9	70.1	70.0	69.5	66.7	66.5	58.9	1521.6	63.40	
15	64.6	65.0	64.7	64.2	63.7	63.6	64.0	64.0	64.2	62.6	63.0	62.9	62.3	62.6	63.5	64.7	66.0	67.3	67.7	67.7	66.6	65.6	65.3	64.5	1550.3	64.60	
16	63.6	64.4	64.0	63.3	63.8	64.5	63.4	63.2	64.0	63.1	63.0	63.3	62.1	61.4	62.3	63.2	65.9	68.3	69.6	69.2	68.6	67.2	65.7	64.4	1551.5	64.65	
17	64.4	64.5	59.5	60.4	63.0	61.1	60.7	62.4	63.1	63.9	62.8	62.2	62.7	62.2	63.1	64.7	66.8	67.8	68.5	67.4	66.0	65.2	64.6	64.4	1531.4	63.81	
18	64.2	63.9	62.8	60.5	62.5	63.7	63.5	63.4	63.5	63.2	63.0	62.3	61.1	61.4	62.9	65.9	67.3	67.4	67.7	67.0	65.8	65.0	64.5	64.1	1536.6	64.03	
19 Q	64.0	63.9	63.6	63.1	63.1	63.6	63.2	63.1	63.1	62.9	62.4	61.4	60.9	61.5	63.1	64.5	66.2	67.3	67.8	67.2	66.3	65.2	64.5	64.1	1536.0	64.00	
20	64.1	64.2	63.5	62.2	61.1	60.9	60.3	57.8	59.3	59.6	61.5	61.6	61.4	61.9	63.1	65.3	67.2	68.8	68.5	68.9	69.8	67.5	65.4	64.8	1528.7	63.70	
21 Q	64.0	63.6	63.3	63.1	62.8	62.7	62.9	62.9	62.7	62.7	62.1	62.0	61.2	61.3	62.4	64.2	65.9	66.6	66.8	66.4	65.7	64.5	64.1	64.0	1527.9	63.66	
22	63.9	63.7	63.5	63.0	62.6	62.3	61.9	61.7	61.6	61.6	61.1	61.0	60.4	60.9	61.3	63.1	64.7	66.1	66.8	66.7	65.7	65.3	64.2	63.9	1517.0	63.21	
23 Q	63.8	63.7	63.3	63.1	62.8	62.7	62.5	62.5	62.6	62.6	62.4	61.8	60.8	60.4	61.2	62.8	64.8	65.8	66.4	66.3	65.5	64.7	64.2	64.2	1520.9	63.37	
24 D	63.6	63.5	63.0	62.2	61.8	60.8	59.4	59.1	60.0	60.4	58.4	61.3	59.7	59.3	60.8	68.1	67.5	68.6	68.2	68.0	69.3	69.7	64.7	64.9	1522.3	63.43	
25 D	64.6	63.4	59.6	59.6	60.4	62.5	61.6	66.0	58.2	63.2	63.9	62.1	63.4	65.1	65.3	65.4	66.3	67.1	67.5	67.7	67.1	66.5	63.1	62.9	1532.5	63.85	
26	61.9	61.5	63.3	61.6	64.0	63.2	62.5	61.9	62.2	64.4	63.8	63.3	61.1	61.9	63.7	65.8	67.6	68.6	68.8	68.7	65.2	65.5	63.7	61.1	1535.3	63.97	
27	61.4	62.8	62.3	61.9	60.8	58.9	59.5	61.3	59.7	61.5	64.6	64.1	64.0	63.3	64.2	66.5	67.9	69.1	68.0	67.9	66.6	65.4	64.7	64.5	1530.9	63.79	
28	64.5	64.3	63.7	63.1	63.3	63.1	62.9	62.5	63.0	63.0	63.1	62.3	61.8	61.4	61.9	63.4	65.4	66.5	67.2	66.8	66.5	65.1	64.6	62.7	1532.1	63.84	
29	63.3	64.2	63.9	63.4	62.1	60.7	61.6	62.5	63.6	63.2	62.6	61.2	60.5	60.7	61.2	63.5	65.8	67.1	67.9	68.2	66.3	65.1	64.2	64.1	1527.0	63.63	
30 D	64.1	63.5	63.7	63.1	59.7	59.9	61.3	61.1	60.8	61.2	61.6	60.8	60.9	61.4	62.0	63.0	64.7	66.5	67.4	68.2	68.6	66.5	72.3	65.8	1528.1	63.67	
Sum.																									45960.1		
1000+	908.9	908.6	891.4	879.3	875.6	856.0	862.8	863.5	867.8	875.2	882.0	872.2	855.5	857.9	882.0	933.2	982.8				998.1	970.6	946.9	918.2			
2000+																						018.4	029.3	023.9			
Mean.	63.63	63.62	63.05	62.64	62.52	61.87	62.09	62.12	62.26	62.51	62.73	62.41	61.85	61.93	62.73	64.44	66.09	67.28	67.64	67.46	66.60	65.69	64.90	63.94		63.83	

Vertical component, Z, - (36000 + tabulated values) gammas

September 1961

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.	
Date																											
01 D	530	530	528	524	515	480	480	481	505	504	494	512	524	522	518	510	512	524	520	526	532	539	537	538	12385	516.0	
02	539	535	533	526	522	522	520	515	519	504	511	519	521	515	513	512	516	520	525	527	530	529	528	523	12522	521.8	
03	523	526	526	526	521	499	498	510	518	521	517	520	523	519	514	508	509	514	520	526	528	529	526	526	12447	518.6	
04	527	525	524	524	522	520	518	515	515	517	518	519	521	521	517	514	515	517	520	524	527	526	524	522	12492	520.5	
05	524	519	513	520	521	519	515	509	511	515	517	515	516	516	513	514	514	515	522	524	524	524	528	527	12435	518.1	
06	528	527	525	520	520	519	519	520	520	520	520	520	519	517	511	506	508	513	519	522	525	523	520	520	12461	519.2	
07 Q	520	520	519	520	520	519	519	518	516	517	517	517	517	514	509	506	506	508	513	519	522	523	520	519	12398	516.6	
08 Q	518	518	517	517	517	516	514	515	515	515	515	515	515	510	504	502	503	509	516	519	519	519	519	518	12345	514.4	
09	516	516	516	515	514	514	511	496	498	498	504	504	508	506	502	498	500	508	514	517	519	521	517	518	12230	509.6	
10	519	519	513	517	517	516	515	514	515	515	515	515	516	511	506	502	502	507	514	517	520	521	519	520	12345	514.4	
11	516	516	516	515	517	510	507	509	508	508	510	511	510	509	504	498	494	495	502	514	522	528	526	530	12275	511.5	
12	533	533	530	523	518	491	470	475	516	519	519	510	508	507	507	505	505	509	514	520	521	525	524	520	12302	512.6	
13	524	523	521	518	516	515	515	516	516	517	517	517	515	511	506	500	500	502	503	507	515	521	520	524	12339	514.1	
14 D	529	528	527	524	516	480	498	504	502	505	504	509	494	487	503	502	501	504	515	521	521	530	532	527	12263	511.0	
15	528	526	523	522	520	518	515	515	509	506	506	508	509	507	503	504	506	510	513	520	524	523	520	520	12355	514.3	
16	520	519	518	516	517	514	511	511	511	512	511	513	516	513	508	508	503	508	513	520	522	519	523	525	12351	514.6	
17	526	522	513	511	512	510	508	511	515	518	519	516	515	511	506	504	505	508	515	520	523	523	521	520	12352	514.7	
18	520	520	517	514	515	516	513	513	513	515	515	518	515	508	502	499	503	513	518	522	523	523	520	519	12354	514.8	
19 Q	519	519	517	513	511	511	512	512	512	512	512	513	509	504	504	505	506	508	513	517	520	519	519	519	12306	512.8	
20	517	515	515	514	511	512	512	503	506	506	508	508	506	501	500	495	500	504	510	513	515	512	517	518	12218	509.1	
21 Q	519	518	516	515	513	511	510	509	508	509	510	510	509	506	502	500	503	507	511	514	516	517	517	515	12265	511.0	
22	517	516	516	514	513	511	510	509	509	509	508	507	506	503	499	492	490	496	502	507	509	515	516	516	12190	507.9	
23 Q	514	514	513	512	511	511	510	509	508	507	508	509	507	502	496	493	494	498	502	507	511	512	512	512	12172	507.2	
24 D	512	513	513	511	510	509	505	499	497	499	493	494	494	487	467	480	492	497	500	512	514	526	525	534	12083	503.5	
25 D	527	525	512	498	480	492	468	482	493	501	500	509	498	499	506	501	505	510	516	520	520	526	527	525	12140	505.8	
26	522	518	512	508	513	511	510	509	506	500	503	504	504	502	494	492	499	509	518	524	534	529	529	527	12277	511.5	
27	521	517	512	505	493	501	498	488	488	486	484	481	492	507	502	503	505	511	519	520	523	521	524	520	12121	505.0	
28	518	518	517	514	514	513	514	513	513	513	513	513	512	511	505	502	503	506	508	514	519	516	522	518	12309	512.9	
29	517	517	514	513	513	506	507	506	506	506	508	510	509	505	499	495	494	498	506	514	515	518	520	518	12214	508.9	
30 D	514	513	514	511	507	505	508	508	510	512	510	510	505	503	504	501	499	502	508	517	515	539	582	608	12405	516.9	
Sum.	15657	15625	15550	15480	15409	15271	15210	15194	15278	15286	15286	15326	15313	15234	15124	15051	15092	15230	15337	15544	15628	15696	15734	15746	369351		
Mean.	521.9	520.8	518.3	516.0	513.6	509.0	507.0	506.5	509.3	509.5	509.5	510.9	510.4	507.8	504.1	501.7	503.1	507.7	512.9	518.1	520.9	523.2	524.5	524.9		513.0	

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

October 1961

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.	
Date																											
1 D	60.9	44.6	62.9	57.5	63.3	53.1	48.3	43.9	56.7	71.1	62.7	70.0	69.6	70.4	68.3	67.7	68.3	69.1	68.4	67.8	67.4	66.5	65.9	65.4	1509.8	62.91	
2	65.9	66.2	66.0	65.3	65.6	65.4	65.0	64.8	65.1	65.2	64.9	63.8	63.0	63.3	64.2	65.9	67.9	69.5	69.3	68.3	67.3	66.1	65.4	65.0	1579.0	65.79	
3	65.1	65.3	65.2	64.9	64.5	64.1	63.7	63.6	63.7	63.9	63.5	62.9	61.7	61.9	62.8	64.4	66.5	68.2	69.3	69.1	67.8	66.5	65.4	64.5	1558.5	64.94	
4	64.2	64.3	63.6	63.3	64.2	64.2	64.1	64.0	64.1	63.7	63.5	62.9	61.9	61.8	63.7	66.9	69.2	71.0	70.5	68.8	68.0	66.4	65.2	63.4	1562.9	65.12	
5	63.1	64.6	64.8	64.4	64.0	63.4	63.5	63.1	62.8	62.9	61.9	61.5	61.4	61.9	62.8	64.5	66.1	68.4	69.0	67.4	65.9	64.8	64.5	64.4	1541.1	64.21	
6	64.5	64.4	64.2	64.1	63.6	63.2	62.9	62.3	62.7	62.2	61.5	60.8	61.3	62.2	63.0	64.5	66.5	68.7	68.8	68.5	67.7	66.4	65.2	65.1	1544.3	64.34	
7	64.8	62.2	61.3	61.2	61.1	61.1	61.5	61.9	61.9	62.3	61.9	61.3	62.0	62.0	62.2	64.0	66.5	68.3	68.8	67.7	66.0	65.0	64.5	64.6	1524.1	63.50	
8	64.3	64.4	64.2	63.7	63.3	63.9	62.1	60.6	60.1	60.3	60.3	61.0	61.9	62.3	63.1	64.2	66.4	67.6	67.6	67.1	66.5	65.4	64.8	64.6	1529.7	63.74	
9	64.5	63.8	62.8	62.8	61.6	61.5	61.2	61.9	61.9	61.7	61.7	60.9	60.9	60.9	62.2	63.8	66.0	67.7	68.3	67.7	66.3	65.2	64.4	64.2	1523.9	63.50	
10 Q	64.3	64.2	64.1	63.3	62.9	62.6	61.9	61.8	61.6	60.8	60.6	60.6	60.4	60.8	61.7	63.3	65.4	67.5	68.3	67.9	66.5	65.2	64.8	64.2	1524.7	63.53	
11	64.2	63.7	63.7	63.6	63.0	62.1	61.3	59.9	60.8	61.8	59.6	60.1	61.9	61.9	62.7	64.4	65.9	67.4	68.4	68.2	67.5	66.5	65.5	65.4	1529.5	63.73	
12	63.8	60.8	62.4	59.5	61.5	61.9	59.9	61.9	63.9	63.1	60.9	60.4	61.6	61.9	64.2	66.0	67.0	68.8	70.0	68.8	68.2	67.6	65.4	64.4	1533.9	63.91	
13	63.3	62.9	62.9	63.3	59.6	58.6	60.8	61.8	62.6	61.5	61.6	61.3	61.7	62.2	62.9	64.1	66.5	68.8	68.8	67.8	66.9	65.9	65.1	64.2	1525.1	63.55	
14	60.4	62.7	63.2	63.7	63.9	63.5	63.5	64.3	63.1	62.1	61.5	61.3	61.0	62.2	62.9	64.3	66.3	68.3	69.3	68.8	67.2	65.4	64.4	64.0	1537.3	64.05	
15 Q	63.8	63.9	63.8	63.6	63.3	63.2	62.6	62.2	61.7	61.2	60.8	60.4	60.3	60.6	62.3	64.1	65.9	67.6	68.7	67.7	66.1	64.7	64.3	64.0	1526.8	63.62	
16 Q	63.6	63.6	63.5	63.3	63.0	62.6	62.5	62.3	61.7	61.5	61.8	61.4	60.6	61.0	62.9	63.8	65.4	66.8	67.6	67.0	65.9	64.6	63.9	63.1	1523.4	63.48	
17 Q	63.6	63.6	63.3	63.1	62.9	62.7	62.3	61.9	61.3	61.3	61.6	61.5	61.1	61.0	61.7	63.1	65.4	67.2	67.6	66.8	66.0	64.8	64.2	63.8	1521.8	63.41	
18 Q	63.6	63.1	62.7	62.1	61.7	60.7	59.8	60.8	60.5	60.2	60.0	59.6	59.6	60.3	62.3	64.6	66.3	68.0	68.2	66.9	65.6	64.7	64.2	63.5	1509.0	62.88	
19	63.3	63.1	62.4	60.5	61.1	61.8	60.9	60.8	61.0	61.2	60.9	61.0	61.5	61.9	62.4	63.4	65.3	66.6	66.9	66.5	65.9	65.0	64.6	64.3	1512.3	63.01	
20	57.7	57.2	60.7	58.6	59.9	58.3	61.9	61.0	61.1	60.8	60.6	61.2	61.9	62.8	63.6	64.6	66.6	68.2	68.5	67.8	66.8	65.6	65.4	65.1	1505.9	62.75	
21	64.6	63.6	63.9	64.0	63.4	62.3	61.6	61.6	60.9	61.0	60.2	59.5	60.0	61.8	63.2	64.4	65.8	67.7	68.6	67.7	67.5	67.8	66.5	65.7	1533.3	63.89	
22	64.6	64.3	64.2	64.1	63.1	62.3	61.9	61.9	61.9	62.1	63.2	62.2	60.6	61.0	62.3	64.2	65.7	67.0	68.1	67.8	66.6	65.2	64.5	64.1	1532.9	63.37	
23	63.9	64.1	63.7	63.2	62.5	62.5	62.0	62.4	61.6	61.3	60.9	60.5	59.9	60.2	61.4	63.3	65.0	66.0	66.7	66.0	65.6	64.7	64.6	64.5	1516.5	63.19	
24	63.8	63.3	63.2	62.3	62.3	61.0	61.1	61.2	61.0	61.3	61.8	61.3	61.7	62.3	62.7	64.1	66.3	67.9	68.0	67.5	66.6	65.4	64.7	64.2	1525.0	63.54	
25	63.7	63.6	63.5	63.1	62.9	62.4	62.1	61.8	61.7	61.5	61.1	60.5	59.6	60.6	62.3	64.7	66.7	68.1	70.0	68.6	67.3	66.2	65.3	65.4	1532.7	63.86	
26 D	64.4	63.9	63.6	62.8	62.2	57.9	57.4	58.3	56.8	61.6	64.1	66.3	67.4	67.7	67.7	68.3	68.8	68.1	69.1	69.8	72.3	75.6	75.6	70.1	1579.8	65.83	
27 D	58.2	64.9	64.7	58.1	58.2	57.5	58.4	57.5	58.2	61.3	65.1	62.6	62.8	63.6	64.2	66.5	69.1	71.4	73.3	72.7	71.0	69.1	67.1	67.3	1542.8	64.28	
28 D	66.4	66.5	65.1	64.9	63.9	64.1	63.7	62.9	61.3	56.8	57.2	63.8	72.4	77.0	70.0	72.4	76.5	79.4	79.8	81.7	76.8	72.4	67.9	64.2	1647.1	68.63	
29 D	66.5	64.2	60.9	60.9	62.1	63.1	64.5	60.7	63.1	63.1	61.1	62.9	62.8	63.9	64.9	65.9	67.5	68.9	69.5	69.7	69.2	68.5	67.1	66.0	1557.0	64.88	
30	66.2	65.9	65.6	65.2	64.7	64.1	63.7	63.4	63.2	62.9	62.9	63.4	63.8	63.4	64.2	65.3	67.3	68.8	68.8	68.4	68.0	67.3	66.5	65.3	1568.3	65.35	
31	64.7	64.7	64.6	64.3	63.8	63.2	63.3	63.0	61.9	61.8	62.3	62.5	62.4	63.2	64.3	65.6	66.8	67.8	68.0	67.7	67.0	66.3	65.5	64.8	1549.5	64.56	
Sum.																										47707.9	
1000+	975.9	957.6	970.7	945.3	943.1	918.3	909.4	899.5	909.9	923.5	911.7	919.4	928.7	948.0	969.1												
2000+																016.3	074.9	124.8	142.2	124.2	093.4	060.8	032.4	008.8			
Mean.	63.74	63.15	63.57	62.75	62.68	61.88	61.59	61.27	61.61	62.05	61.67	61.92	62.22	62.84	63.52	65.04	66.93	68.54	69.10	68.52	67.53	66.48	65.56	64.80			64.12

Horizontal component, H, 23000 gammas + tabulated value.

October 1961

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	360	300	282	294	343	266	267	256	319	334	339	326	323	332	325	323	325	331	342	352	357	360	358	362	7776	324.0
02		363	362	362	364	362	361	360	357	357	361	367	368	361	348	335	328	331	335	353	367	372	374	374	374	8596	358.2
03		373	376	377	377	376	377	380	381	380	383	387	387	376	363	351	348	345	349	354	367	371	372	374	375	8899	370.8
04		380	383	387	385	383	384	384	384	384	380	383	384	374	356	344	344	346	353	365	374	383	374	378	377	8969	373.7
05		383	388	392	392	391	390	392	390	387	389	388	383	372	361	356	351	354	364	375	382	388	388	391	393	9140	380.8
06		392	393	395	395	394	392	394	391	395	392	392	384	375	368	362	359	361	362	371	380	386	386	390	391	9200	383.3
07		389	388	386	379	389	387	391	395	394	392	390	387	378	368	361	355	357	366	377	386	391	393	397	399	9195	383.1
08		402	403	404	403	402	403	405	408	396	395	400	392	378	368	365	361	363	369	380	389	396	400	404	408	9394	391.4
09		411	413	413	407	395	389	391	389	390	389	392	391	383	369	353	348	356	367	380	390	396	397	397	399	9305	387.7
10	Q	402	404	405	404	401	400	397	397	397	398	396	392	385	374	364	358	364	378	388	398	401	399	400	401	9403	391.8
11		406	405	407	413	416	416	410	413	404	403	414	414	394	375	362	353	357	364	375	389	385	385	396	392	9448	393.7
12		390	394	380	363	374	371	379	372	383	388	387	385	375	362	342	348	349	367	377	381	397	387	385	382	9018	375.8
13		376	375	382	389	383	370	377	376	384	383	377	371	368	364	361	356	352	350	367	384	393	396	397	384	9015	375.6
14		382	383	386	391	390	388	386	391	390	386	384	381	372	356	349	342	342	356	371	384	394	397	400	396	9097	379.0
15	Q	399	400	400	401	400	398	397	394	393	395	395	390	379	366	354	350	356	368	384	398	401	405	406	407	9336	389.0
16	Q	407	408	409	410	410	409	405	401	397	397	400	396	384	366	355	352	358	371	387	398	404	405	404	405	9438	393.3
17	Q	404	407	409	408	407	407	406	404	402	401	403	402	394	381	371	367	375	387	398	406	414	413	424	426	9616	400.7
18	Q	428	429	428	427	421	415	410	414	411	408	405	400	390	378	366	365	370	383	398	403	403	405	405	407	9669	402.9
19		408	412	406	397	397	398	395	397	395	393	395	394	388	379	376	377	383	386	394	406	405	403	404	404	9492	395.5
20		381	356	374	368	391	380	383	391	375	376	377	372	362	354	350	352	359	367	376	385	394	391	393	395	9002	375.1
21		393	398	395	395	399	398	395	395	395	394	397	391	377	367	364	364	362	359	364	373	391	395	376	389	9226	384.4
22		395	395	395	396	395	391	390	388	386	388	395	398	388	373	357	357	359	372	384	393	403	401	402	402	9303	387.6
23		405	405	406	406	404	406	402	402	402	398	395	391	377	364	356	355	360	378	390	395	400	390	392	406	9385	391.0
24		411	410	414	411	402	408	403	397	395	396	394	390	376	365	359	360	366	348	391	402	401	400	399	403	9401	391.7
25		408	411	411	411	403	403	400	399	397	398	397	394	382	368	357	360	371	384	394	398	400	406	404	402	9458	394.1
26	D	405	408	409	403	395	390	386	388	381	411	415	412	408	387	365	355	363	375	389	410	406	400	387	359	9407	392.0
27	D	384	387	385	391	356	350	356	365	360	356	363	360	358	352	355	356	354	365	367	372	378	365	371	374	8780	365.8
28	D	385	388	391	388	383	379	378	377	397	411	390	319	286	281	288	283	209	191	242	463	387	319	336	323	8194	341.4
29	D	326	326	330	316	327	320	373	362	337	332	344	335	325	326	324	322	322	328	338	351	362	366	363	366	8121	338.4
30		364	365	364	364	364	363	362	361	359	359	359	359	354	349	342	339	333	338	355	359	364	372	377	379	8604	358.5
31		376	377	377	376	373	372	378	379	375	372	368	363	355	344	340	340	350	360	368	372	376	379	383	386	8839	368.3
Sum		12088	12049	12061	12024	12026	11881	11932	11914	11917	11958	11988	11811	11497	11164	10909	10828	10852	11071	11494	12007	12099	12023	12067	12066	281726	
Mean		389.9	388.7	389.1	387.9	387.9	383.3	384.9	384.3	384.4	385.7	386.7	381.0	370.9	360.1	351.9	349.3	350.1	357.1	370.8	387.3	390.3	387.8	389.3	389.2		378.7

Vertical component, Z, - (36000 + tabulated values) gammas

October 1961

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.	
Date																											
01 D	567	497	359	442	529	447	371	431	413	401	493	507	513	533	534	532	528	532	539	541	548	542	539	537	11875	494.8	
02	533	530	528	528	526	526	525	522	522	522	527	526	521	517	513	509	511	516	528	536	537	536	533	530	12602	525.1	
03	526	526	525	523	522	521	522	522	521	519	520	521	519	515	509	504	505	510	512	520	525	529	530	529	12475	519.8	
04	528	526	525	522	520	519	519	518	516	513	514	518	514	507	500	499	497	506	519	526	537	532	535	531	12441	518.4	
05	529	526	525	522	521	519	518	515	513	515	516	517	514	508	505	502	500	502	513	520	526	523	522	522	12393	516.4	
06	519	519	518	517	516	515	514	511	510	508	507	508	505	506	504	500	498	501	508	515	522	528	529	525	12303	512.6	
07	523	520	513	512	516	517	518	516	512	510	508	506	502	502	501	496	494	501	509	518	522	523	521	519	12279	511.6	
08	517	516	515	514	513	512	502	492	492	500	504	502	498	497	498	495	491	494	500	508	515	517	517	517	12126	505.5	
09	516	516	514	511	504	502	503	506	507	506	506	506	500	497	497	497	500	504	510	519	522	522	520	517	12202	508.4	
10 Q	515	514	514	512	510	509	508	508	508	507	506	504	501	498	495	492	489	495	503	511	514	514	511	512	12150	506.3	
11	513	512	511	513	513	512	508	508	502	490	490	497	489	488	488	486	490	495	504	513	513	512	521	520	12088	503.7	
12	522	519	489	498	510	499	502	501	499	497	503	504	501	498	492	495	498	504	510	513	526	522	526	526	12154	506.4	
13	525	522	521	521	511	502	507	508	506	502	510	508	506	502	500	498	493	490	502	514	521	524	523	520	12236	509.8	
14	519	517	517	515	513	510	508	503	502	507	507	506	502	499	496	493	493	497	506	515	522	522	521	516	12206	508.6	
15 Q	514	513	512	511	509	509	508	508	508	508	507	504	499	495	491	491	491	495	503	512	514	516	513	511	12142	505.9	
16 Q	509	508	508	506	506	504	504	504	504	501	501	502	498	493	489	489	491	493	496	506	514	514	511	509	12060	502.5	
17 Q	508	507	506	506	504	503	503	503	502	501	500	500	498	495	492	489	487	490	497	502	506	506	510	508	12023	501.0	
18 Q	505	504	502	500	498	495	494	498	498	495	493	491	486	482	478	478	480	483	491	499	503	505	505	506	11869	494.5	
19	505	506	503	499	499	501	499	500	502	498	496	496	494	490	488	485	483	485	491	499	502	506	509	516	11952	498.0	
20	512	498	508	505	498	477	475	494	505	506	504	504	502	501	498	498	498	502	509	515	518	517	515	514	12073	503.0	
21	514	513	511	511	511	511	507	507	507	504	505	503	495	490	488	488	487	490	497	504	518	522	516	518	12117	504.9	
22	520	516	514	513	511	508	507	507	504	502	500	506	506	500	491	491	494	497	503	510	518	517	516	513	12164	506.8	
23	512	511	510	508	507	508	506	505	504	502	501	500	499	495	490	486	490	497	505	509	512	510	509	513	12089	503.7	
24	514	511	511	509	502	497	492	495	496	495	493	495	493	491	489	488	489	492	498	507	510	510	508	509	11994	499.8	
25	510	508	507	505	502	502	501	502	500	499	495	493	491	486	481	481	486	491	496	505	510	514	517	511	11993	499.7	
26 D	509	510	509	507	503	496	495	498	485	483	476	469	468	469	474	475	484	491	499	511	519	548	551	541	11970	498.8	
27 D	523	515	514	485	475	486	498	501	502	499	498	504	501	500	502	498	490	494	501	520	528	541	541	534	12150	506.3	
28 D	528	525	522	517	511	510	510	509	509	489	474	437	387	412	462	494	475	507	587	906	757	643	604	568	12843	535.1	
29 D	566	555	541	532	534	536	542	546	530	528	529	518	513	513	509	503	502	507	512	518	524	528	530	530	12646	526.9	
30	526	525	523	522	521	521	520	518	512	512	512	511	512	512	508	505	500	502	512	516	519	520	522	525	12376	515.7	
31	521	519	517	515	513	511	504	506	513	512	508	504	504	503	502	502	502	503	503	503	508	512	515	519	12219	509.1	
Sum.	16148	16004	15792	15801	15828	15685	15590	15662	15604	15531	15603	15567	15431	15394	15364	15339	15316	15466	15763	16311	16330	16275	16240	16166	378210		
Mean.	520.9	516.3	509.4	509.7	510.6	506.0	502.9	505.2	503.4	501.0	503.3	502.2	497.7	496.6	495.6	494.8	494.1	498.9	508.5	526.2	526.8	525.0	523.9	521.5		508.3	

Declination, D, east of north, 16 degrees + tabulated values in minutes of arc.

November 1961

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.	
Date																											
1	64.2	64.2	64.2	63.8	62.0	62.0	61.9	61.7	62.2	61.9	61.1	61.6	62.1	62.5	63.4	65.7	66.5	67.7	68.9	69.0	67.6	66.5	65.9	65.4	1542.0	64.25	
2	64.6	64.1	63.7	63.0	62.6	62.0	62.0	62.1	62.0	61.7	60.7	60.8	62.0	63.9	63.8	64.8	66.2	67.6	66.7	67.4	66.5	65.7	64.8	64.2	1532.9	63.87	
3	64.1	64.0	63.2	62.5	61.1	61.8	61.4	60.7	60.8	61.1	61.0	61.1	61.1	62.1	63.8	65.0	65.9	66.5	66.5	66.0	65.3	64.8	64.5	64.0	1518.3	63.26	
4	63.7	64.3	64.2	63.8	63.3	62.7	62.5	62.1	61.4	60.6	59.8	60.0	60.7	61.3	62.5	64.2	66.2	68.0	68.5	68.3	67.6	66.8	66.2	65.4	1534.1	63.92	
5 D	63.9	64.2	63.5	63.1	62.5	58.9	58.4	60.4	61.6	61.2	60.3	60.6	59.6	62.5	67.0	67.1	68.0	68.8	69.7	69.9	68.0	67.1	66.0	62.5	1534.8	63.95	
6	64.2	64.2	64.1	63.4	60.5	57.1	59.3	59.6	61.1	58.3	59.7	60.9	61.6	62.5	63.4	65.1	66.1	66.9	66.2	65.6	65.1	64.9	64.9	65.1	1509.8	62.91	
7 D	64.3	64.1	62.5	61.6	60.7	60.2	58.8	58.8	56.1	57.3	60.7	67.6	69.8	68.4	70.8	71.8	72.6	72.1	73.5	73.6	71.0	65.8	68.0	67.8	1577.9	65.75	
8 D	65.3	62.3	58.3	62.3	62.5	63.2	62.5	62.5	61.5	61.6	61.7	62.0	63.4	64.3	65.3	67.1	68.1	68.9	69.1	69.3	68.7	66.9	66.5	66.3	1549.6	64.57	
9	65.9	64.3	63.4	64.2	63.4	62.2	61.2	60.0	61.5	61.2	60.9	61.8	63.0	63.5	64.9	65.1	67.5	68.5	68.8	68.0	66.8	66.3	66.1	66.1	1544.6	64.36	
10	65.4	65.3	64.3	63.3	62.3	62.1	61.5	60.6	59.8	59.7	59.9	60.5	60.8	61.7	63.8	65.7	67.1	67.1	66.6	66.0	65.3	64.8	64.7	64.8	1523.1	63.46	
11	64.2	64.2	63.9	63.4	63.1	62.3	61.6	61.0	60.2	59.4	59.4	60.1	60.3	61.6	63.0	64.1	64.8	65.8	66.7	67.1	66.7	66.5	65.7	64.7	1519.8	63.33	
12	63.1	62.3	62.3	63.1	62.6	60.7	57.0	58.7	60.3	59.7	59.6	60.5	62.5	63.4	64.7	65.3	67.9	67.1	67.1	67.1	67.1	67.1	65.3	61.6	1516.1	63.17	
13	63.4	63.0	63.4	63.4	62.9	62.4	61.6	61.3	61.2	60.8	61.1	60.9	61.1	61.6	63.0	64.9	66.5	68.0	68.0	67.7	67.1	66.6	66.2	65.4	1531.5	63.81	
14	64.3	64.3	63.3	62.0	57.9	57.8	59.7	59.6	57.9	57.9	58.0	58.8	60.6	62.5	63.4	64.3	66.0	67.4	68.7	68.0	67.1	66.6	66.2	65.4	1507.7	62.82	
15 Q	65.2	64.3	64.0	63.4	63.0	62.4	61.7	61.2	60.7	60.8	60.8	60.7	61.0	61.6	62.8	64.2	65.8	66.9	67.2	67.3	66.9	66.0	65.1	64.2	1527.2	63.63	
16	63.8	63.7	63.5	63.4	63.0	62.6	61.8	60.7	59.9	59.6	59.9	59.8	60.3	60.9	61.6	62.8	63.8	64.9	66.0	67.1	67.1	66.7	66.0	66.4	1515.3	63.14	
17 D	65.3	64.3	63.7	63.4	62.5	60.8	60.1	59.5	58.9	58.9	58.9	59.7	60.1	60.1	62.9	67.1	66.5	66.9	68.8	69.0	69.5	69.5	69.0	67.6	1533.0	63.88	
18 D	60.6	63.3	62.0	60.7	60.6	60.0	59.7	54.2	57.3	64.2	64.2	64.2	68.8	71.2	70.6	71.4	70.6	69.9	68.8	70.4	68.8	67.9	66.6	66.5	1562.5	65.10	
19	65.6	64.8	64.2	62.6	61.4	59.7	59.4	60.8	60.0	59.7	59.3	60.7	61.6	62.7	63.4	64.3	65.2	65.4	65.3	65.3	65.4	65.3	65.3	65.2	1512.6	63.03	
20	64.4	64.2	63.8	63.1	60.7	59.2	58.0	59.5	59.2	58.0	58.8	60.6	62.5	66.0	67.3	67.8	69.2	71.0	71.0	70.4	68.8	68.3	67.1	66.0	1544.9	64.37	
21	65.3	64.2	62.4	60.8	59.7	60.3	59.9	60.0	60.5	60.7	60.5	61.6	61.8	62.6	63.6	64.8	65.0	66.6	67.1	67.1	66.7	66.2	65.3	64.2	1516.9	63.20	
22 Q	63.4	63.5	64.3	64.3	63.6	62.8	61.9	61.5	60.7	60.3	60.8	61.6	62.0	62.5	63.6	65.3	66.7	68.0	67.8	67.1	66.5	65.4	65.0	64.6	1533.2	63.88	
23 Q	64.2	63.8	63.4	63.2	62.7	62.4	61.6	60.7	60.3	60.5	59.7	59.6	60.5	61.6	61.7	62.5	63.7	66.5	67.7	67.2	66.6	65.9	64.8	63.8	1514.6	63.11	
24 Q	63.7	63.7	63.9	63.3	62.8	62.2	61.9	60.9	60.6	61.0	61.1	61.1	61.3	62.1	63.3	64.5	66.4	67.5	67.9	67.7	67.0	65.3	64.2	64.5	1527.9	63.66	
25	64.2	64.1	63.7	63.4	63.2	62.4	60.6	59.9	59.5	60.8	60.2	60.7	61.0	60.6	61.5	63.6	65.9	67.1	68.4	68.6	68.2	67.3	66.0	64.9	1525.8	63.58	
26	64.5	64.2	63.7	63.3	62.7	61.9	61.0	60.0	59.1	58.2	58.4	62.5	62.5	62.2	63.3	65.5	65.7	67.4	67.9	67.4	66.7	66.3	66.0	65.5	1525.9	63.58	
27	64.6	64.3	63.7	63.5	62.8	61.6	61.1	60.2	59.4	59.0	59.1	60.1	62.0	64.4	64.5	64.6	66.3	68.1	68.3	67.5	66.6	66.0	65.5	64.6	1527.8	63.66	
28	64.4	63.8	63.6	63.2	62.7	61.9	61.1	60.7	60.0	59.8	60.0	60.8	61.5	62.4	63.5	64.6	65.8	67.4	69.1	68.7	68.9	68.4	67.4	66.1	1535.8	63.99	
29	64.8	64.3	63.5	62.8	62.2	61.7	61.0	60.0	59.6	59.5	60.6	62.1	62.8	62.8	63.0	63.1	64.6	66.5	67.9	68.7	68.3	67.3	66.2	65.4	1528.7	63.70	
30 Q	64.2	63.9	63.7	63.4	62.5	61.6	60.4	59.9	58.9	58.9	59.7	61.0	62.3	62.1	62.7	63.6	64.4	66.0	67.4	68.2	68.1	67.4	67.0	66.3	1523.6	63.48	
Sum.																									45897.9		
1000+	928.8	919.2	901.4	890.7	863.5	838.9	820.6	808.8	802.2	802.3	805.9	834.0	860.6	887.6	922.1	959.9	995.0					995.6	977.5	954.5			
2000+																			026.5	041.6	040.7	020.0					
Mean.	64.29	63.97	63.38	63.02	62.12	61.30	60.69	60.29	60.73	60.77	60.20	61.13	62.02	62.92	64.07	65.33	66.50	67.55	68.05	68.02	67.33	66.52	65.92	65.15		63.75	

Horizontal component, H, 23000 gammas + tabulated value

November 1961

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		383	385	386	385	386	382	379	375	377	375	372	368	363	355	348	345	350	360	370	378	385	390	396	394	8987	374.5
02		393	399	402	401	401	396	391	386	386	391	398	386	365	362	349	352	355	366	375	384	388	390	396	394	9206	383.6
03		391	390	389	392	392	396	396	394	388	385	383	379	368	358	350	353	362	370	378	382	384	388	390	391	9149	381.2
04		393	395	397	397	397	396	393	390	387	385	380	375	366	356	350	352	361	371	383	390	397	397	406	405	9219	384.1
05	D	396	395	403	405	400	403	389	384	389	392	397	391	374	337	349	358	365	365	374	379	383	396	378	378	9180	382.5
06		389	390	396	404	391	372	374	378	396	388	383	375	363	356	352	354	362	375	382	392	394	397	404	413	9180	382.5
07	D	406	404	390	404	400	396	389	387	380	380	360	345	325	307	296	301	302	303	333	343	348	365	352	362	8578	357.4
08	D	375	365	358	358	363	369	366	367	357	352	344	337	333	333	341	338	342	354	371	381	373	378	374	383	8612	358.8
09		390	390	384	383	382	377	373	371	367	374	371	365	360	348	345	349	356	371	374	376	385	392	393	391	8967	373.6
10		391	392	394	403	400	395	390	388	384	384	381	372	359	351	344	343	358	369	376	383	389	392	391	393	9122	380.1
11		392	392	393	393	395	393	390	388	384	381	375	370	362	356	354	355	361	371	384	393	401	403	403	416	9210	383.8
12		415	405	396	402	402	398	380	376	386	385	381	370	362	361	359	353	351	358	369	379	379	381	394	399	9141	380.9
13		399	399	398	391	391	390	389	386	386	382	377	373	372	366	360	355	360	373	386	394	399	407	412	414	9259	385.8
14		420	429	426	421	405	409	403	394	407	390	381	375	375	368	360	362	371	381	386	385	390	394	395	395	9422	392.6
15	Q	397	400	400	400	400	400	395	390	387	387	384	380	371	361	354	354	359	367	375	387	396	395	395	396	9230	384.6
16		402	404	406	407	405	402	401	398	397	395	391	382	377	374	372	373	377	384	391	400	402	407	415	399	9461	394.2
17	D	405	415	416	418	415	407	405	401	398	397	394	384	378	375	358	356	371	384	402	397	401	404	413	402	9496	395.7
18	D	417	406	384	368	376	382	389	391	362	404	414	373	341	356	354	350	361	362	358	354	359	377	381	383	9002	375.1
19		379	378	389	381	375	368	372	376	376	373	367	358	357	357	360	364	365	374	372	376	383	391	398	399	8988	374.5
20		398	398	396	401	398	391	381	385	392	389	385	370	350	350	353	355	355	368	385	381	373	389	392	395	9130	380.4
21		403	393	385	382	379	388	385	381	378	377	372	364	360	359	359	360	369	378	385	390	397	398	395	398	9135	380.6
22	Q	404	397	398	398	399	400	400	398	395	392	389	382	375	365	360	360	368	373	382	394	399	401	401	401	9331	388.8
23	Q	398	398	398	400	400	398	398	398	395	390	386	377	368	366	363	363	370	384	382	389	398	406	409	411	9345	389.4
24	Q	403	401	401	398	398	399	401	395	397	395	393	385	377	369	359	352	359	375	390	401	409	411	406	407	9381	390.9
25		407	408	408	408	410	410	411	405	395	401	402	395	385	376	367	360	368	385	395	403	409	412	411	408	9539	397.5
26		408	409	411	411	414	414	413	411	407	411	394	393	381	371	359	355	364	381	394	401	411	411	407	407	9538	397.4
27		402	407	401	403	398	399	398	396	394	388	383	379	379	380	381	376	377	382	382	398	398	405	407	405	9418	392.4
28		408	407	403	404	401	405	404	403	401	397	391	388	382	373	366	362	366	375	385	390	398	403	405	406	9423	392.6
29		408	411	408	405	405	403	403	401	398	398	397	395	392	385	377	368	372	379	388	398	402	411	411	410	9525	396.9
30	Q	408	405	405	405	405	405	403	403	399	394	390	387	386	382	380	377	383	394	397	398	402	407	418	422	9555	398.1
Sum		11980	11967	11921	11928	11883	11843	11761	11696	11645	11632	11515	11273	11006	10813	10679	10655	10840	11132	11404	11596	11732	11903	11948	11977	276729	
Mean		399.3	398.9	397.4	397.6	396.1	394.8	392.0	389.9	388.2	387.7	383.8	375.8	366.9	360.4	356.0	355.2	361.3	371.1	380.1	386.5	391.1	396.8	398.3	399.2		384.3

Vertical component, Z, - (36000 + tabulated values) gammas

November 1961

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.	
Date																											
01	515	515	516	515	511	509	509	507	506	505	504	502	501	503	500	497	498	499	504	507	510	512	512	512	12169	507.0	
02	514	515	514	512	510	510	507	503	503	495	495	496	488	495	493	491	492	493	499	504	509	512	517	515	12082	503.4	
03	514	514	513	512	507	506	508	507	504	502	500	496	494	493	488	488	491	495	503	507	509	511	512	511	12085	503.5	
04	510	510	508	508	507	505	505	505	503	501	499	495	492	487	482	481	481	486	494	501	501	503	510	515	11989	499.5	
05 D	510	510	510	508	505	501	489	493	489	485	485	489	483	469	477	487	489	490	497	505	509	518	517	521	11936	497.3	
06	518	515	512	505	488	485	500	501	490	477	485	484	487	485	484	485	490	497	501	509	510	510	509	512	11939	497.5	
07 D	507	509	507	505	496	493	485	465	453	465	462	465	465	470	474	481	493	500	515	525	561	557	540	528	11921	496.7	
08 D	531	523	495	505	501	493	493	496	508	508	503	497	494	493	496	493	495	499	505	514	516	521	513	514	12106	504.4	
09	516	517	512	508	508	506	505	505	498	500	494	490	487	482	481	483	488	495	502	509	512	514	512	512	12036	501.5	
10	512	511	510	509	501	499	504	503	499	497	493	492	491	484	481	481	489	497	499	503	507	510	508	508	11988	499.5	
11	507	506	505	505	505	505	503	502	501	498	494	491	489	486	484	485	485	486	493	498	503	507	506	512	11956	498.2	
12	513	511	509	507	506	500	492	488	484	485	484	479	476	478	479	476	476	480	491	499	500	504	515	518	11850	493.8	
13	515	513	509	504	504	504	503	500	498	494	489	487	486	485	484	482	483	486	493	499	503	504	507	507	11939	497.5	
14	510	509	507	501	488	492	494	480	470	476	480	478	478	477	480	480	476	484	492	494	500	503	504	502	11755	489.8	
15 Q	501	502	502	500	500	499	496	495	493	492	492	488	484	480	479	477	480	485	492	496	504	504	504	502	11847	493.6	
16	501	500	500	498	497	496	496	495	493	492	489	484	480	480	479	477	476	477	480	489	495	501	509	502	11766	491.1	
17 D	504	508	503	502	499	494	494	490	489	487	485	482	481	477	466	462	473	480	487	487	497	503	517	531	11798	491.6	
18 D	530	519	503	497	503	507	507	503	477	455	458	454	448	472	480	481	490	491	501	506	520	529	530	527	11888	495.3	
19	522	519	514	506	501	500	501	495	498	497	492	486	487	489	489	489	489	490	490	493	497	501	505	506	11956	498.2	
20	505	505	503	501	497	493	487	485	483	487	484	477	468	470	477	477	477	485	497	499	497	508	510	510	11782	490.9	
21	515	511	507	503	501	503	499	496	494	492	487	480	478	478	479	481	482	485	493	499	503	503	502	505	11876	494.8	
22 Q	507	500	500	499	499	499	498	495	492	489	485	480	476	474	473	472	473	480	491	500	501	499	497	501	11780	490.3	
23 Q	500	500	498	497	497	497	497	495	492	488	489	485	477	475	477	477	475	479	479	484	493	501	503	501	11756	489.8	
24 Q	497	495	496	495	496	497	496	495	491	487	483	480	479	475	470	470	470	476	486	493	497	497	495	497	11713	488.0	
25	496	494	494	493	494	494	496	493	483	477	477	473	471	470	468	467	468	473	479	486	493	497	499	499	11634	484.8	
26	498	494	493	493	494	494	492	491	489	481	471	467	468	469	471	473	475	477	482	486	492	495	494	497	11636	484.3	
27	495	497	494	493	493	493	493	492	488	482	477	471	470	472	473	473	472	473	473	487	491	494	493	491	11630	484.6	
28	493	493	490	490	489	491	491	490	487	483	476	473	471	471	472	472	470	473	475	481	487	490	489	490	11587	482.8	
29	495	497	494	492	491	490	489	487	483	477	470	471	473	474	473	470	464	463	468	474	481	491	493	493	11553	481.4	
30 Q	489	487	489	489	489	490	489	486	482	476	471	470	471	471	469	468	468	470	467	470	475	483	490	493	11502	479.3	
Sum.	15240	15199	15107	15052	14977	14945	14918	14838	14720	14630	14553	14462	14393	14384	14378	14376	14428	14544	14728	14904	15073	15182	15212	15232	355475		
Mean.	508.0	506.6	503.6	501.7	499.2	498.2	497.3	494.6	490.7	487.7	485.1	482.1	479.8	479.5	479.3	479.2	480.9	484.8	490.9	496.8	502.4	506.1	507.1	507.7		493.7	

Declination, D, east of north 16 degrees + tabulated values in minutes of arc.

December 1961

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.	
Date																											
1 D	65.2	64.4	63.6	62.8	61.5	59.9	58.0	57.1	58.2	56.4	57.4	62.8	60.6	63.9	79.4	72.9	72.9	72.1	73.4	71.3	71.4	71.5	71.1	71.2	1579.0	65.79	
2 D	68.1	59.9	61.4	63.6	61.9	57.6	58.2	57.7	59.0	58.2	57.3	63.9	63.8	67.5	71.1	71.4	74.6	73.7	76.4	76.4	77.6	69.8	73.1	68.7	1590.9	66.29	
3 D	63.0	58.8	57.6	55.7	53.8	53.6	49.6	56.8	60.3	66.5	69.9	70.6	72.8	70.6	68.8	70.3	71.4	71.4	72.6	72.3	71.5	65.3	66.5	66.4	1556.1	64.84	
4	65.4	65.5	64.6	63.7	63.1	61.9	61.1	61.2	61.4	61.6	61.8	62.0	62.0	62.1	62.9	65.0	67.7	67.4	67.3	66.9	66.5	65.6	64.6	64.3	1535.6	63.98	
5	64.0	64.1	64.1	64.0	63.6	62.8	61.9	61.0	59.9	59.9	59.9	60.3	60.6	62.2	62.6	65.1	67.4	71.5	69.7	70.2	68.8	68.2	67.3	66.0	1545.1	64.38	
6	65.1	64.4	63.2	62.0	59.9	60.7	61.2	60.5	59.3	59.1	58.7	59.2	61.0	63.7	65.6	67.4	70.2	70.7	70.5	70.7	67.9	66.5	65.5	64.9	1537.9	64.08	
7	64.6	64.4	64.0	63.3	62.2	61.0	59.7	59.6	60.9	60.8	60.1	59.7	62.8	65.1	64.9	66.7	68.2	68.3	67.5	66.5	65.7	64.6	64.8	65.4	1530.8	63.78	
8 Q	65.4	64.8	64.5	63.8	63.5	62.8	62.3	61.7	60.9	60.2	60.0	60.3	61.3	61.9	62.8	64.3	65.8	66.5	66.2	65.6	65.1	64.6	64.5	64.1	1522.9	63.45	
9	63.7	63.7	63.4	62.8	62.4	61.7	60.9	60.2	59.0	59.1	59.7	60.7	62.2	62.8	63.4	64.6	66.0	67.4	67.4	67.3	66.5	66.0	65.6	64.9	1521.4	63.39	
10	64.0	63.7	63.6	62.8	62.0	61.7	61.0	60.0	59.5	59.0	58.5	60.5	61.9	61.5	61.9	63.7	66.0	67.3	67.1	66.8	67.4	66.5	66.8	65.5	1518.7	63.28	
11	64.6	63.6	63.6	63.6	61.4	60.3	59.1	57.3	57.3	59.9	60.0	61.0	63.6	66.6	69.1	70.3	70.8	71.6	72.3	72.9	73.6	72.4	68.8	66.8	1570.5	65.44	
12	65.6	65.5	63.1	61.9	63.3	62.9	62.5	61.9	61.0	60.6	59.8	60.3	61.4	63.1	65.0	66.0	66.4	67.2	66.9	66.4	65.7	65.6	65.7	65.6	1533.4	63.89	
13	65.1	64.3	63.7	62.9	62.6	61.7	61.4	61.0	60.6	60.5	60.3	60.8	61.4	62.2	63.4	65.4	65.7	66.0	66.8	66.9	66.2	66.8	66.8	66.5	1529.6	63.73	
14	66.0	64.5	63.7	63.0	62.2	61.3	60.8	60.0	59.4	59.0	59.7	59.9	60.7	61.7	62.7	63.7	65.2	66.5	66.4	64.9	64.4	64.4	65.6	65.6	1511.3	62.97	
15	64.5	63.7	63.4	61.9	60.3	59.2	59.1	59.0	58.4	59.0	58.3	59.6	61.9	63.2	64.2	65.1	66.3	67.0	66.8	65.6	65.0	64.9	63.6	64.5	1504.5	62.69	
16	64.5	64.2	64.3	63.6	62.0	61.5	60.7	59.4	58.2	57.7	58.6	59.9	62.2	63.8	65.6	66.8	66.8	66.5	66.5	66.0	65.6	65.5	65.6	64.7	1520.2	63.34	
17	65.0	63.7	63.3	61.9	61.9	61.4	61.3	61.0	60.4	59.2	58.6	59.2	61.0	63.4	65.4	66.5	66.5	66.0	65.6	65.3	65.1	64.5	63.8	63.6	1513.6	63.07	
18 Q	63.4	63.2	62.7	61.6	61.8	61.4	60.8	60.3	59.8	59.0	58.6	58.8	60.5	62.2	64.2	65.9	66.7	66.9	66.0	64.6	63.8	63.3	63.4	63.7	1502.6	62.61	
19 Q	63.9	63.8	63.7	63.4	62.7	61.8	60.4	59.3	58.5	58.0	58.5	58.9	59.7	61.0	62.3	64.3	66.9	68.1	67.0	65.7	64.5	64.1	64.2	64.3	1505.0	62.71	
20 Q	64.1	63.3	62.8	62.3	61.8	61.0	60.8	60.0	59.1	58.1	57.8	58.5	60.8	62.3	63.7	65.1	66.0	66.6	66.5	66.5	66.0	65.2	64.8	64.7	1507.8	62.83	
21	64.6	64.5	63.8	62.7	61.3	60.9	60.0	59.1	58.2	57.6	59.4	60.0	61.0	61.9	62.4	63.3	64.5	65.7	66.4	66.3	66.0	65.5	64.6	64.7	1504.4	62.68	
22	64.1	63.7	62.9	62.8	62.0	60.0	59.6	59.1	58.2	58.2	58.3	58.5	59.0	62.3	65.0	66.5	67.0	68.2	68.2	67.4	66.9	65.6	65.1	64.9	1513.5	63.06	
23	64.9	64.5	62.8	61.0	61.0	59.9	58.2	58.1	58.0	58.6	59.1	60.0	61.9	63.5	63.3	65.3	68.3	69.2	69.1	67.9	66.4	65.2	65.5	63.6	1515.3	63.14	
24	63.8	64.1	63.4	62.8	61.5	60.6	60.0	58.5	58.1	57.4	57.2	57.9	60.0	62.8	64.3	66.8	67.4	67.4	67.4	66.7	65.0	63.8	62.8	63.3	1503.0	62.63	
25 Q	63.5	63.7	63.6	63.4	62.8	62.2	61.6	61.1	59.9	58.8	58.5	59.5	61.3	62.6	64.5	66.0	67.4	67.4	66.6	65.4	64.5	63.9	64.1	63.8	1516.1	63.17	
26	64.0	63.9	63.5	62.8	62.0	61.1	60.6	60.5	59.4	58.9	58.8	59.0	60.4	61.8	63.5	64.9	66.6	67.6	67.5	65.6	64.0	62.8	63.2	64.5	1506.9	62.79	
27	64.3	63.6	62.2	61.9	61.7	60.8	60.0	58.2	57.3	57.4	58.8	60.4	62.9	64.6	64.5	65.6	67.3	67.8	66.9	65.6	65.6	65.6	66.3	66.1	1515.4	63.14	
28 D	65.6	64.5	64.4	63.4	61.9	60.3	59.5	59.1	58.8	57.6	58.1	62.0	62.5	62.6	63.5	67.3	70.2	69.3	69.3	70.4	69.1	67.3	66.9	65.6	1539.2	64.13	
29	64.5	63.2	63.3	61.9	62.7	62.2	61.6	61.6	61.0	60.5	60.3	60.7	60.9	62.7	63.8	65.0	66.9	67.4	65.7	65.7	65.5	65.1	64.9	65.2	1522.3	63.43	
30 D	66.3	65.5	64.6	62.5	61.9	61.3	59.2	59.1	59.0	60.0	61.0	61.1	64.0	65.5	66.4	67.4	68.3	68.2	67.5	67.7	66.7	65.6	65.9	64.4	1539.1	64.13	
31	64.9	64.4	63.8	63.3	62.4	61.1	60.8	60.6	60.5	59.9	60.0	60.4	62.1	64.1	64.9	65.6	66.3	66.7	68.7	68.0	66.8	66.3	65.6	65.2	1532.4	63.85	
Sum.																									47344.5		
1000+		979.1	962.6	939.1	915.1	886.6	861.9	850.0	839.5	836.7	843.0	876.4	918.2	965.2													
2000+	005.7														015.1	054.2	097.7	113.6	112.2	095.5	075.4	042.0	037.0	022.7			
Mean.	64.70	63.84	63.31	62.55	61.78	60.86	60.06	59.68	59.34	59.25	59.45	60.53	61.88	63.39	65.00	66.26	67.67	68.18	68.14	67.60	66.95	65.87	65.71	65.25		63.64	

Horizontal component, H, 23000 gammas + tabulated value.

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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	420	420	425	435	442	434	428	425	412	388	383	404	365	269	342	336	333	353	360	337	372	375	402	408	9268	386.2
02	D	402	373	375	375	369	375	374	373	359	342	340	359	360	320	327	327	340	341	334	355	385	385	407	372	8669	361.2
03	D	359	348	322	326	330	332	344	355	345	356	356	334	335	344	350	340	338	344	351	358	374	395	392	390	8418	350.8
04		391	398	395	391	385	382	357	360	363	366	369	372	364	360	358	354	352	367	376	386	389	396	395	400	9026	376.1
05		393	393	391	392	390	388	387	387	383	377	369	362	350	342	344	355	365	366	367	398	377	396	396	395	9063	377.6
06		402	398	400	412	395	390	393	391	387	379	372	361	351	344	346	349	354	359	377	392	390	401	399	399	9141	380.9
07		400	399	401	406	408	404	403	389	383	378	368	356	343	351	353	358	365	377	386	389	389	387	389	390	9172	382.2
08	Q	390	393	393	393	395	394	396	393	391	386	379	371	369	365	366	363	373	386	398	404	406	405	403	400	9312	388.0
09		398	399	397	398	396	395	398	398	389	388	382	381	377	370	360	359	366	377	388	394	396	401	405	406	9318	388.3
10		402	403	402	403	400	402	399	396	390	383	374	373	377	380	378	374	382	389	402	408	400	398	402	402	9419	392.5
11		403	403	400	400	395	391	387	382	380	386	378	376	377	376	369	364	366	377	382	381	381	378	382	387	9201	383.4
12		390	395	392	385	388	390	388	385	383	377	365	355	353	353	358	359	366	373	379	384	392	395	396	396	9097	379.0
13		398	399	399	399	399	398	395	393	390	384	381	382	379	376	374	369	364	379	385	392	407	417	407	400	9366	390.3
14		391	397	401	398	397	393	392	394	394	390	385	380	370	368	368	377	384	391	392	392	395	405	416	398	9368	390.3
15		395	403	406	402	402	391	394	392	385	382	372	364	362	370	377	381	393	401	403	402	404	399	398	402	9380	390.8
16		406	404	404	403	401	399	399	393	389	384	378	372	371	370	371	377	386	393	393	389	395	402	408	399	9386	391.1
17		403	399	404	404	395	391	390	387	383	355	373	371	372	372	376	381	387	390	395	406	405	401	399	401	9340	389.2
18	Q	402	401	402	399	401	403	403	402	398	395	390	383	376	366	360	364	377	387	394	395	394	395	398	400	9385	391.0
19	Q	403	403	403	404	404	406	406	405	404	402	394	383	380	377	377	381	388	392	394	403	403	405	408	410	9535	397.3
20	Q	411	411	409	406	403	403	401	403	399	390	385	381	382	377	375	381	388	401	405	410	407	404	409	414	9555	398.1
21		418	414	415	409	408	407	410	407	402	397	392	384	380	379	384	388	394	406	411	408	405	396	401	414	9629	401.2
22		415	418	416	417	411	406	405	400	393	392	388	383	376	373	376	379	386	399	396	397	393	398	398	401	9516	396.5
23		407	409	409	406	407	408	403	402	400	370	383	378	378	379	378	380	385	399	403	408	414	422	408	412	9548	397.8
24		425	425	419	418	409	407	406	402	398	388	378	368	370	374	377	372	379	389	392	395	398	398	399	400	9486	395.3
25	Q	403	403	402	402	402	399	398	394	390	385	379	370	363	358	360	377	383	400	409	411	407	405	404	408	9412	392.2
26		410	414	416	418	417	413	410	405	402	401	397	389	376	367	361	367	384	393	400	402	401	398	405	428	9574	398.9
27		428	468	451	431	427	425	422	417	405	398	394	385	389	390	384	385	392	392	401	409	420	414	419	412	9858	410.8
28	D	412	421	414	411	410	401	401	402	399	399	383	388	396	389	375	355	357	379	388	398	392	401	415	393	9479	395.0
29		404	409	407	396	394	392	388	385	380	375	375	378	373	368	371	374	373	378	383	394	393	405	404	394	9293	387.2
30	D	401	409	412	405	394	398	395	388	381	371	374	368	363	354	351	349	344	359	366	378	379	381	392	399	9111	379.6
31		393	401	397	395	394	394	388	386	383	379	375	370	363	363	369	364	368	372	373	366	385	390	398	398	9164	381.8
Sum		12475	12530	12479	12439	12368	12311	12260	12191	12040	11843	11711	11581	11440	11244	11315	11339	11512	11809	11983	12141	12248	12348	12454	12428	288489	
Mean		402.4	404.2	402.5	401.3	399.0	397.1	395.5	393.3	388.4	382.0	377.8	373.6	369.0	362.7	365.0	365.8	371.4	380.9	386.5	391.6	395.1	398.3	401.7	400.9		387.8

Vertical component, Z, - (36000 + tabulated values) gammas

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D.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.	
Date																											
01 D	491	491	492	496	498	492	484	481	469	444	440	440	424	379	423	457	479	491	495	495	514	521	530	536	11462	477.6	
02 D	538	524	514	510	504	503	501	499	487	470	467	473	469	447	457	467	484	499	503	536	583	608	599	571	12213	508.9	
03 D	539	509	495	481	467	463	449	449	432	454	470	475	473	497	503	495	493	499	505	512	524	540	527	516	11767	490.3	
04	512	510	504	503	499	493	493	494	489	484	478	473	471	473	477	476	476	488	494	499	498	505	508	511	11808	492.0	
05	505	499	497	497	495	495	494	494	493	488	481	473	473	474	475	480	475	475	485	503	494	505	509	507	11766	490.3	
06	511	505	505	509	499	497	497	493	490	485	479	471	463	457	456	461	465	474	487	497	499	505	501	500	11706	487.8	
07	501	500	500	501	500	497	494	485	481	475	473	470	464	472	471	469	474	483	491	494	494	493	492	493	11667	486.1	
08 Q	495	497	497	497	497	497	496	493	489	485	482	479	477	474	471	471	471	477	488	496	501	499	496	492	11717	488.2	
09	491	492	493	494	494	493	495	491	483	481	477	475	474	471	466	462	463	471	479	485	489	492	496	498	11605	483.5	
10	494	493	491	492	492	493	492	489	484	480	474	474	474	475	467	463	467	471	482	488	487	491	498	497	11608	483.7	
11	498	499	495	493	491	489	486	479	475	471	468	466	463	461	461	462	467	474	479	485	494	501	505	506	11568	482.0	
12	509	507	504	499	499	499	496	494	492	486	478	471	471	469	470	473	474	477	481	481	479	482	486	487	11664	486.0	
13	488	492	493	491	490	490	488	486	484	480	477	474	470	466	463	467	468	472	477	481	485	489	491	495	11557	481.5	
14	494	497	496	492	490	487	487	486	485	483	479	475	469	467	464	463	461	466	470	473	481	487	492	481	11525	480.2	
15	483	489	491	487	485	480	483	483	479	474	467	463	461	467	467	464	465	471	481	485	489	489	492	491	11486	478.6	
16	493	491	490	489	486	485	485	478	477	474	472	465	464	465	465	469	475	475	473	472	479	485	490	486	11483	478.5	
17	491	490	489	484	484	483	483	481	479	478	474	471	471	470	467	468	472	474	477	481	487	488	487	486	11515	479.8	
18 Q	486	487	487	485	486	486	485	483	481	477	471	467	469	467	461	457	462	470	476	481	482	483	483	484	11456	477.3	
19 Q	483	482	483	485	485	485	485	483	479	473	466	463	463	459	458	461	468	473	475	479	481	480	479	481	11409	475.4	
20 Q	483	484	484	484	484	483	480	475	470	468	466	462	461	458	453	453	461	468	471	473	472	473	478	483	11327	472.0	
21	486	482	483	483	481	483	483	479	473	466	459	455	453	454	457	460	461	465	469	473	477	476	479	485	11322	471.8	
22	483	486	485	485	481	479	478	474	470	466	459	454	448	445	451	457	460	467	475	477	477	483	482	483	11305	471.0	
23	484	486	487	486	488	485	479	477	471	463	457	457	455	455	454	449	449	457	469	481	489	496	491	489	11354	473.1	
24	488	485	479	480	479	478	477	475	473	467	461	455	452	453	455	451	456	464	468	470	471	475	475	476	11263	469.3	
25 Q	479	478	477	477	478	479	477	475	472	467	463	459	455	453	457	461	462	470	478	481	484	485	483	481	11331	472.1	
26	482	483	484	484	483	479	477	475	473	469	460	455	450	449	451	452	453	462	474	477	476	475	479	494	11296	470.7	
27	489	506	495	481	475	477	477	472	465	465	462	457	457	457	455	455	453	456	467	480	486	478	475	469	11309	471.2	
28 D	473	485	483	482	481	477	477	474	469	465	452	449	453	448	436	428	438	461	465	477	475	485	499	489	11221	467.5	
29	500	497	489	485	484	481	479	479	478	476	475	474	468	465	463	461	457	463	471	483	486	493	495	482	11484	478.5	
30 D	485	490	490	488	483	481	478	477	473	468	469	469	465	461	461	458	457	468	473	483	488	489	491	493	11438	476.6	
31	490	493	490	486	484	481	478	477	477	472	466	464	464	466	461	457	458	462	464	466	480	485	485	485	11391	474.6	
Sum.	15324	15309	15242	15186	15122	15070	15013	14930	14792	14654	14522	14428	14344	14274	14296	14327	14424	14643	14842	15044	15201	15336	15373	15327	357023		
Mean.	494.3	493.8	491.7	489.9	487.8	486.1	484.3	481.6	477.2	472.7	468.5	465.4	462.7	460.5	461.2	462.2	465.3	472.4	478.8	485.3	490.4	494.7	495.9	494.4	479.9		