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Contributors

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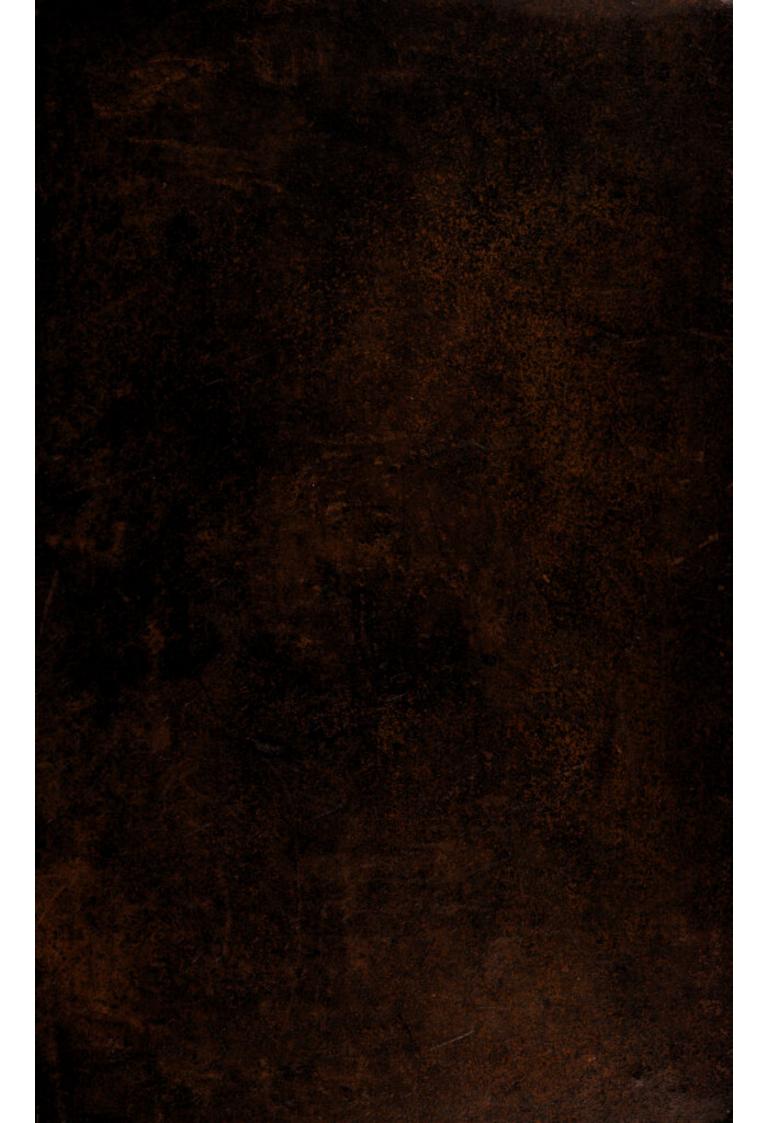
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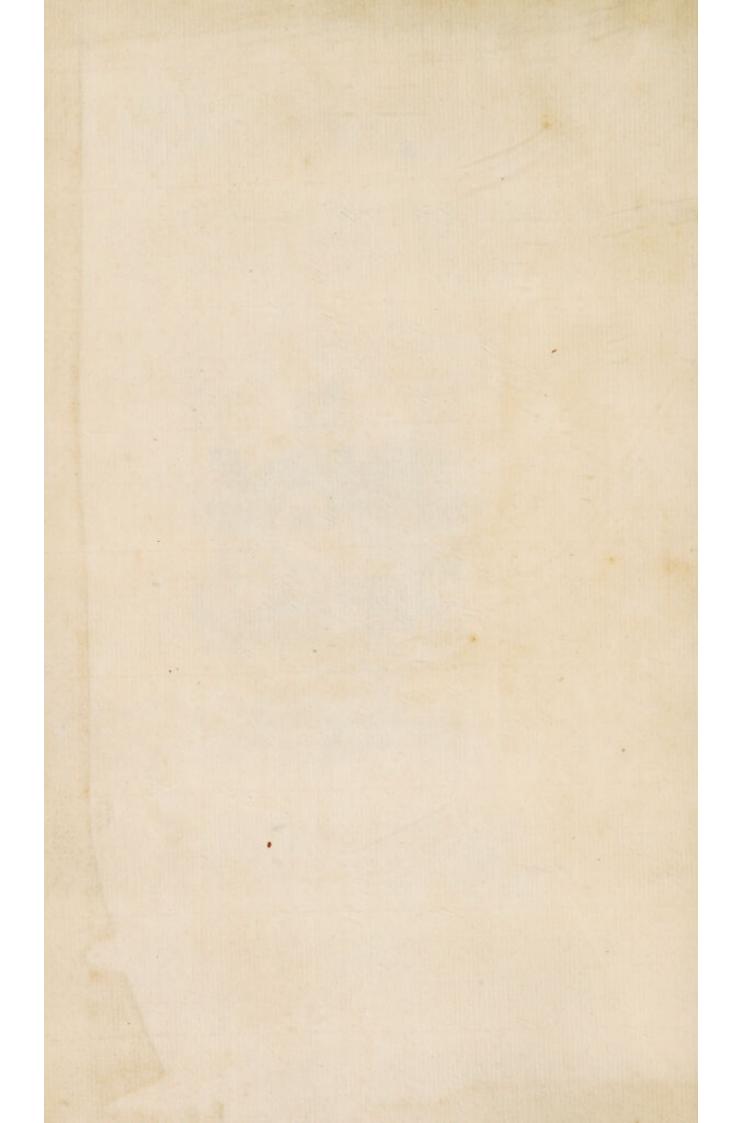


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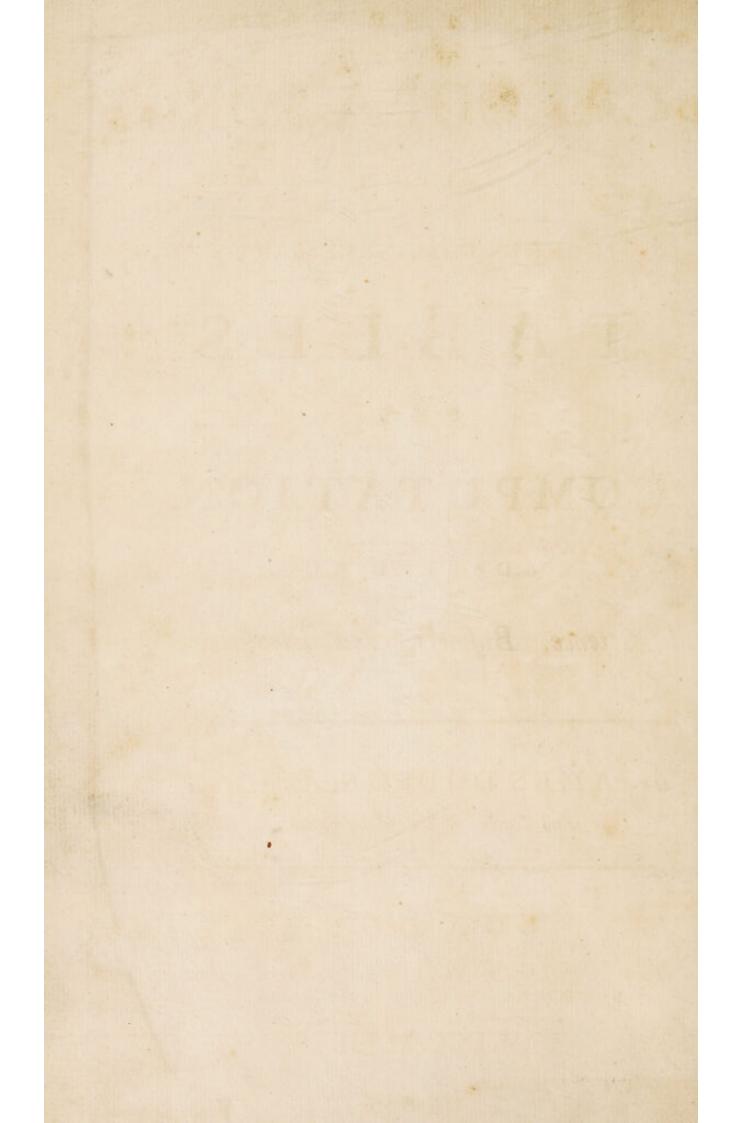
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CALCULATOR:

BEING,

CORRECT AND NECESSARY

TABLES

FOR

COMPUTATION.

ADAPTED TO

Science, Bufiness, and Pleasure.

By JAMES DODSON, Accomptant,

And Teacher of the Mathematics.

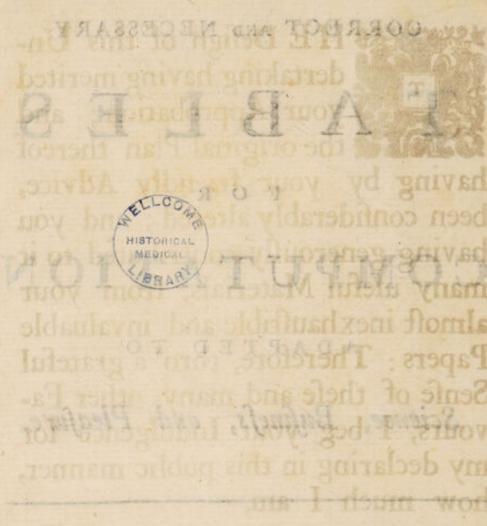
LONDON:

Printed for JOHN WILCOX, at Virgil's Head, opposite the New Church in the Strand.

M. DCC. XLVII.

SALCULALLY OR

HONOURED SIR.



By JA MES DODSON, decomprant,

tyd graft byndie Servant,

Printed For Form With ox, at Fingil's Hand, appendix the New Church in the Strand.

M. DCC. MUVIE, Dodfon.

WILLIAM JONES, Esq;

Fellow of the Royal Society.

HONOURED SIR,

HE Design of this Undertaking having merited your Approbation; and the original Plan thereof

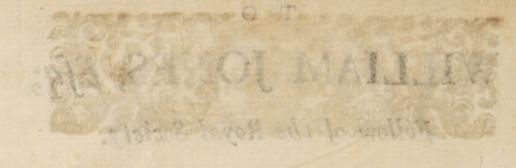
having by your friendly Advice, been confiderably altered; and you having generously contributed to it many useful Materials, from your almost inexhaustible and invaluable Papers: Therefore, thro' a grateful Sense of these and many other Favours, I beg your Indulgence for my declaring in this public manner, how much I am,

Honoured Sir,

Your most obliged,

And most bumble Servant,

James Dodfon.



PHROESIASIA C E.

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PREFACE.

O have a Collection of the generally useful, and most necessary Tables, in one portable Volume, has been long desired by Persons of Business, almost in every Station of Life; and in order to accom-

modate them in some measure, I have here put together, in the most concise and best manner I could, the Tables that are esteemed absolutely necessary, such as those whose Affairs require Computations, cannot conveniently be without, and such as are sufficient for all common Purposes.

To the Table of the Logarithms of given Numbers, contracted as much as it well can be, I have added a

Table of Numbers to given Logarithms.

Altho' the Table of the Logarithms of Sines and Tangents is calculated only to every fingle Minute, yet by means of another small Table, the Log. Sines or Log. Tangents of Seconds, or of Thirds, if needful, may be found even in the two first Degrees of the Quadrant; also a Table of Products, that, among others, answers the Purposes of the common Table of

proportional Parts, is annexed.

Other Tables, that are scarce, or to be found only in larger Volumes, are inserted, and, where practicable calculated a-new; as the Tables of Compound Interest and Annuities, not less useful than those of Mr Smart's: The Tables of Annuities for Lives, upon Mr De Moivre's Principles: Sir Isaac Newton's Tables of the Values of foreign Coins: Dr Arbuthnot's Tables of the Comparisons of Foreign Weights and Measures: as also the Tables of the English Weights and Measures; with their decimal Values: The Tables of prime and composit Numbers, which are not very common: The Table of Square Roots, from Briggs:

PREFACE.

The Table of Specific Gravities, collected from divers Authors: The Table of the Arcs of a Circle, their versed Sines and Segments; from Guldinus: The Tables of Refractions: Traverse Table: Table of

Logistical Logarithms:

To these I have likewise added some Tables that were not publick before; as Tables for the ready making of Neper's Logarithms: Tables of Combinations, Permutations, &c. The Table of Cube Roots: A Table of the Products of Auxiliary Numbers: Tables for the ready computing the Sides, Areas, and Solidities of regular Polygons, and Solids: with some others.

I have given a short Account of the Manner of making Use of most of these Tables; to have gone farther would have been contrary to the original Design of this Book. And as what I have undertaken was wholly intended for the Ease and Bensit of the Curious, I hope that my Endeavours herein will be receiv'd by them with Candour.

Since the Table of Specific Gravities was printed off, the following Experiments relating to Diamonds were communicated by Mr John Ellicott, F. R. S.

	million of their variable visit Ballon	In Air.	In Water	Speci Gra.
No.	Water,	- AU	0	1000
1	A Brazil Diamond, fine Water, rough Coat,	Grains.	66.16	2515
2	Ditto, fine Water, rough Coat,	88,21	63 16	3521
3	Ditto, fine bright Coat, Ditto, fine bright Coat,	10,025	7.170	351
4	An East India Diamond, pale blue,	26,485	6.830	350
6	Ditto, origin yellow,		16.71	
	Ditto, very fine Water, bright Coat,	20,66	14.8	352
8	Ditto, very bad Water, honeycomb Coat, ————————————————————————————————————	20,38		3510
10	Ditto, very foft good Water,	22,615		351
11	Direo, a large red Foul in it,	25,48	18-23	351.
12	Ditto, foft bad Water, Ditto, foft brown Coat,		21.140	
14		25,25	18.99	

Hence, The mean Specific Gravity of the Brazil Diamonds
appears to be,
3513
The Mean of the East India Diamonds
The Mean of both to be
3516

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abide Cube Roots: 150	Paramatican Self and January 9
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N	1 x) Garrifas y added t	G. (A - 1) r taken from A.
Ivote, (G.	+ 1) lightnes I added t	o G ; $(A-1)$ I taken from A ;
150	o x o) 500 multiplied	by 8; $(a \times C)$ a multiplied by C ;

Note, (G+1) fignifies 1 added to G; (A-1) 1 taken from A; (500×8) 500 multiplied by 8; $(a \times C)$ a multiplied by C; $\left(\frac{900}{18}\right)$ 900 divided by 18; (r^3) the third Power of r; (\sqrt{a}) the Root of a; and (m=aC) m is equal to aC.

THE

CALCULATOR.

TABLE I.							
-	-	1/	12 0 C. 1	2 tper C.	3 per C	3 per C.]	4 per C.
2	-		.02	,025	,03	,035	,04
Years.		2 ,	,04	,05	,06	,07	,08
		A	,c6 ,c8 -	,075	,09	,105	,16
			,1	,125	,15	,175	,2
	6	100	,12	,15	,18	,21	,24
			,14	,175	,21	,245	,28
	1		,16	,225	,27	,315	,36
	1		,2	125	,3	,35	,4
	1	11	,22	,275	,33	,385	,44
		12	,24	•3	,36	,42	,48
		13	,26	,325	,42	,455	1,56
		14	,3	,375	,45	-525	1,0
	1	16	,32	1,4	,48	,56	,64
1	1	17	,34	,425	,51	,595	,72
		18	,36 ,38	,45 ,475	,54	,665	1,76
1		20	,4	,5	,6	,7	,8
	1	21	,42	,525	,63	,735	,84
-	1	22	,44	,55	,66	,77	192
1	1	23	,46	,575	,72	,84	,96
1	1	24 25	,48	,625	,75	,875	1,
1	-	1	,005	,00625	,0075	,00875	,01
13	1	2	,01	,0125	,015	,0175	,02
20	-1-	3	,015	,01875	,0225	,002917	-
1 9	-	1	,00166		,0025	,005833	
		3	,003333	,00625	1,0075	,00875	10,
100		4	,00666	,008333	,01	,01166	,013333
1	1	5	,00833			,01458	THE RESERVE OF THE PARTY OF THE
1	1	6	,010000		,0175	,02041	7 ,0233333
1	1	7 8	,01333	,016667	,02	,02333	3 ,026667
	1	9	,01500	,018750	,0225	,02625	,030000
	1	10	,01666			,03208	3 ,036667
1-	-	1	,00005	//		2 ,00000	6 ,000110
	Days.	2	,00011	0 ,00013	,00016	4 ,00019	2 ,000219
	25.	3		4 ,00020			4 ,000329
-		4			ALL DESCRIPTIONS OF THE PARTY O		9 ,000548
1		5	,00032	9 ,00041	1 ,00049	3 ,00057	5 ,000658
1		78	,00038	4 ,00047			
-			,00043	8 ,00054	6,0007		3 ,000986
1		10			5 ,0008		9 ,001096
1		20		-	0 ,0016.	44 ,00191	8 ,002192
1		30	,00164	4 ,00205		66 ,00287	003288
1		40	The second second			88 ,00383	
1	13	60				32 ,00575	3 ,006575
1	14	70	0 ,0038	0 ,00479	5 ,0057	53 ,00671	2 ,007671
1		80	,0043	4 ,00547	9 ,0065		008767
1		90	0 ,0049	,00010	9 ,0073		,010959
1		200	The second second		9 ,0164	38 ,01917	8 ,021918
1		300	,0164	,02054	8 ,0246	58 ,02876	,032877
1			At 2 p.	C. 2 per (3 per	13= per	C. 4 per C.

1	-		97	· Cimal	T. (2	<i>c</i> 1	
-	-	-		e Simple			1
	11	-	- 42 per	-	C. 6 per 6	-	
1	Years.	1	1 ,045	,05	,06	,07	,08
1		1	3 ,135	,15	,12	,14	,16
1		1	4 ,18	,2	1,24	,28	,24
1		1	5 ,225	,25	1.3	,35	1,4
1				,3	,36	,42	,48
1		1	7 ,315 ,36	,35	,42	,49	1,50
1		10000	,405	,4	,48	,56	,64
1		10		,5	1.6	,7	,72 ,8
1		1	10300	,55	,66	,77	,88
1		1:		,6	1,72	,84	,96
1		12		,65	1,78	,91	1,04
1		1	,675	,7	,84	1,05	1,12
1		16	,72	,8	,96	1,12	1,2
1		17	7,765	,85	1,02	1,19	1,36
1		10000	,81	,9	1,08	1,26	1,44
1		20		1,95	1,14	1,33	1,52
1		21	-	1,05	1,26	1,4	1,6
1		22		1,1	1,32	1,47	1,68
1		23	1,035	1,15	1,38	1,61	1,84
1	24	24		1,2	1,44	1,68	1,92
1		25		1,25	1,5	1,75	2,
1	211	1		,0125	,015	,0175	,02
1	-	3	The state of the s	,025	,03	,035	,04
1	-1	1		,004167		,0525	,06
1	M	2	The state of the s	,008333	,005	,005833	
1	Months.	3	,01125	,012500	,015	,017500	
I	36	4	,015	,016667	,02	,023333	,026667
1		5		,020833		,029167	,033333
1				,025000		,035000	3040000
1		7 8	,03	,033333		,046667	,046667
	9	9		1037500	.045	,052500	,060000
1		10	,0375	,041667	105	,058333	,066667
-	-	11	,04125	,045833	,055	,064167	,073333
	0	2	,000123	,000137	,000164	,000192	,000219
1	Dave	3	,000370	,000411	,000329	,000384	,000438
1		4	,000493	,000548	,000658	,000767	,000877
1		5	,000616	,000685	,000822	1000959	1001096
	-		,000740	The state of the s	,000986	,001151	1001315
1		7 8	,000986	,000959	,001151	001342	,001534
-	-	9	,001110	,001233	,001479	,001726	,001753
	-	10	,001233	,001370	,001644	810100	,002192
	-	20	,002466	,002740	,003288	,003836	,004384
1.6		30	,003699	,004110	,004932	,005753	,006575
	1	40	,004932	,005479	,006575	,007671	,008767
	-	60	,007397	,008219	,009863	,009589	,010959
30	-	70	,008630	,009589	,011507	,013425	,015342
	-	80	,009863	,010959	,013151	,015342	,017534
-13		90	,011096	,012329	,014795	017260	,019726
		200	,024658	,013699	,016438	,019178	,021918
		300	,036986	,041096	,049315	957534	,065753
	1		4 per C.	THE RESERVE AND ADDRESS OF THE PARTY NAMED IN	The second secon	7 per C.	8 per C.
-		-					!

1	4		TAB	LEII.	N. C. T.	
Ì	Ys.	At 2 p.C.	21 per C.	3 per C.	3 per C.	4 per C.
ì	1	1,020000	1,025000	1,030000	1,035000	1,040000
١	2	1,040400	1,050625	1,060900	1 071225	1,081600
ı	3	1,061208	1,076891	1,092727	1,108718	1,124864
į	4	1,082432	1,103813	1,125509	1,147523	1,169859
į	5	1,104081	1,131408	1,194052	1,229255	1,265319
ì	7	1,148686	1,188686	1,229874	1,272279	1,315932
	8	1,171659	1,218403	1,266770	1,316809	1 368569
1	9	1,195093	1,248863	1,304773	1.362897	1,423312
	10	1,218994	1,280085	1,343916	1,410599	1,480244
	11	1,243374	1,312087	1,384234	1,459970	1,539454
	12	1,268242	1,344889	1,425761	1,563956	1,665074
	13	1,293607	1,412974	1,512590	1,618695	1,731676
	15	1,345868	1,448298	1,557967	1,675349	1,800944
	16		1,484506	1,604706	1,733986	1,872981
	17	1,400241	1,521618	1,652848	1,794676	1,947901
	118		1,559659	1,702433	1,857489	2,025817
	19		1,598650	1,753506	1 989789	2,191123
	21	1,515666	1,679582	1,860295	2.059431	2,278768
	22		1,721571	1,016103	2,131512	2,369919
	23	A CONTRACTOR OF THE PARTY OF TH	1,764611	1,973587	2,206114	2,404710
	124	11,008437	1,808726	2,032794	2,283328	2,563304
	25		1,853944	2,093778	2,363245	2,665836
	26	100000000000000000000000000000000000000	1,900293	2,156591	2,445959	2,772470
	27		1,996495	2,287928	2,520172	2,998703
	29	The second secon	2,046407	2,356566	2,711878	3,118651
	130		2,097568	2 427262	2,806794	3,243398
	131	1,847589	2,150007	2,500080	2,905031	3,373133
	32	The state of the s	2,203757	2,575083	3,006708	3,508050
	33	1,922231	2,258851	2,652335	3,111942	3,648381
	134		2,315322	2,813862	3,333590	3,946089
	36		2,432535	2,898278	3,450266	4,103933
	37		2,493349	2,985227	3,571025	4,268090
	138	2,122299	2,555682		3,696011	4,438813
	139		2,619574	3,167027	3,825372	4,616366
	49	-	-	The second second	The state of the s	Territoria de la companya del la companya de la com
	41		2,752190			4,993061 5,192784
	4:		2,801520			5,400495
	4	1 2,390053	2,963808	3,671452	4,543342	5,616515
	14	5 2,437854	13,037903	3,781596	4,702359	5,841176
	4		3,113851		4,866941	6,074823
	4	7 2,536344 8 2,587070	3,191697			6,570528
	4		2 3,353277		5,396065	6,833349
	15	0 2,69158	3,437100		5 584927	7,106683
	15	1 2,745420	3,52303	4,515423	5,780399	7,390951
	15	2 2,80032	8 3,61111:	2 4,650886	5,982713	7,686589
		3 2,85633	5 3,70139			7,994052
	15	4 2,91346	1 3,79392	5 4.934125		
	P	5 2,97173	5 3,98599			8,646367
	5	7 3 09178	9 4,08564	2 5,391651	7,105587	9,351910
		8 3,15362	4 4,18778	3 5,55340	1 7,354282	9.725987
		9 3,21669		8 5,72000	7,611682	10 115026
	-	3,28103	the state of the s		7,878091	10,519627
	1	7. At 20 (C. z per C	. 3 per C.	3 per C	A per C.

	The Amount of 1 l. at Compound Interest. 5							
Ys.	42 per. C.	5 per C.	6 per C.	7 per C.	8 per C.			
I	1,045000	1,050000	1,060000	1,070000	1,080000			
2	1,092025	1,102580	1,123600	1,144900	1,166400			
3	1,141166	1,157625	1,191016	1,225043	1,259712			
4	1,192519	1,215506	1,262477	1,310796	1,360489			
5	1,302260	1,340096	1,338226	1,402552	1,469328			
	1,360862	1,407100	1,503630	1,605781	1,713824			
7 8	1,422101	1,477455	1,593848	1,718186	1,850930			
9	1,486095	1,551328	1,689479	1,838459	1,999005			
10	1,552969	1,628895	1,790848	1,967151	2,158925			
11	1,622853	1,710339	1,898299	2,104852	2,331639			
12	1,695881	1,795856	2,012196	2,252192	2,518170			
13	1,851945	1,979932	2,132928	2,409845	2,719524			
15	1,935282	2,078928	2,396558	2,759032	3,172169			
16	2,022370	2,182875	2,540352	2,952164	3,425943			
17	2,113377	2,292018	2,692773	3,158815	3,700018			
18	2,208479	2,406619	2,854339	3,379932	3,996020			
19	2,307860	2,526950	3,025600	3,616528	4,315701			
20	-	AMPROXIMENT CALCULATION CO.	3,207135	3,869684	4,650957			
21	2,520241	2,785963	3,399564	4,140562	5,033834			
23	2,752166	3,071524	3,603537	4,430402	5,436540			
24	2,876014	3,225101	4,048935	5,072367	6,341181			
25	3,005434	3,386355	4,291871	5,427433	6,848475			
26	3,140679	3,555673	4,549383	5,807353	7,395353			
27	3,282010	3,733456	4,822346	6,213868	7,988061			
28	3,429700	3,920129 4,116136	5,111687	6,648838	8,627106			
30	3,745318	4,321942	5,418388	7,114257	9,317275			
31	3,913857	4,538039	6,088101	8,145113	10,867669			
32	4,089981	4,764941	6,453387	8,715271	11,737033			
33	4,274030	5,003189	6,840590	9,325340	12,676050			
34	4,466362	5,253348	7,251025	9,978114	13,690134			
35	4,667348	5,516015	7,686087	10,676581	14,785344			
36	4,877378 5,096860	6,081407	8,147252 8,636087	11,423942	15,968172			
38	5,326219	6,385477	9,154252	13,079271	17,245626			
39	5,565899	6,704751	9,703507	13,994820	20,115298			
40	5,816365	7,039989	10,285718	14,974458	21,724522			
41	6,078101	7,391988	10,902861	16,022670	23,462483			
42	6,351615	7,761588.	1 121 22	17,144257	25,339482			
43	6,637438	8,149667	12,250455	18,344355	27,366640			
44	7,248248	8,557150	12,985482	19,628460	29,555972			
46	7,574420	9,434258	14,590487	22,472623	31,920449			
47	7,915268	9,905971	15,465917	24,045707	37,232012			
48	8,271456	10,401270	16,393872	25,728907	40,210573			
49	8,643671	10,921333	17,377504	27,529930	43,427419			
50	9,032636	11,467401	18,420154	29,457025	46,901613			
51	9,439105	12,040770	19,525364	31,519017	50,653742			
52 53	9,863865	12,642808	20,696885	33,725348 36,086122	54,706041			
54	10,771587	13,938696	23,255020	38,612151	59,082524			
	11,256308	14,635631	24,650322	41,315001	68,913856			
55 56	11,762842	15,367412	26,129341	44,207052	74,426965			
57	12,292170	16,135783	27,697101	47,301545	80,381122			
58	12,845318	16,942572	29,358927	50,612653	86,811612			
59	13,423357	18,679186	31,120463	54,155539 57,946427	93,756540			
$ \overline{r} $	41 per C.	5 pir C.	6 per C.	7 per C	101,257064			
	72 /0 00	3 per 0.	o per c.	1 100	8 per C.			

6	San	TAB	LE	III.	mile est
13.	2 per C.	22 per C.	3 per C.	3 1 per C.	1 4 per C.
1	,980392	,975610	,970874	,966184	,961538
2	,961170	,951814	,942596	,933511	,924556
3	,942322	,928599	,915142	,901943	,888996
4	,923845	,905951	,8884.87	,871442	,854804
5	,905732	,883854	,862609	,841973	,821927
	,870560	,841265	,813092	,785991	,759918
7 8	,853490	,820747	,789409	,759412	,730690
9	,836755	,800728	,766417	3733731	,702587
10	,820348	,781198	,744094	,708919	,675564
11	,804263	,762145	,722421	,684946	,649581
12	,788493	,743556	,701380	,661783	,624597
13	,773033	,725420	,680951	,639404	,600574
14	,757875	,707727	,661118	,617782	,577475
15	,743015 ,728446	,673625	,623167	,576706	,555265
17	,714163	,657195	,605016	,557204	,513373
18	,700159	,641166	,587395	,538361	,493628
19	,686431	,625528	,570286	,520156	,474642
20	,672971	,610271	,553676	,502566	,456387
21	,659776	,595386	,537549	,485571	,438834
22	,646839	,580865	,521893	,469151	,421955
23	,634156	,566697	,506692	,453286	,405726
24 25	,609531	,539391	,491934 ,477606	,437957 ,423147	,390121
26	,597579	,526235	,463695	,408838	,360689
27	,585862	,513401	,450189	,395012	,346817
28	,574375	,500878	,437077	,381654	,333477
29	,563112	,488661	,424346	,368748	,320651
30	,552071	,476743	,411987	,356278	,308319
31	,541246	,465115	,399987	,344230	,296460
32	,530633	,453771	,388337	,332590	,285058
33	,520229	,442703	,377026	,321343	,274094
34	,500028	,421371	,355383	,299977	,263552
36	,490223	,411094	,345032	,289833	,243669
37	,480611	,401067	,334983	,280032	,234297
38	,471187	,391285	,325226	,270562	,225285
39	,461948	,381741	,315754	,261413	,216621
40	,452890	372431	,306557	,252572	,208289
41	,444010	.363347	,297628	,244031	,200278
42	,435304	,354485	,288959	,235779	,192575
44	,418401	,337404	,272372	,220102	,178046
45	,410197	,329175	,264439	,212659	,171198
46	,402154	,321146	,256737	,205468	,164614
47	,394268	,313313	,249259	,198520	,158283
48	,386538	,305671	,241999	,191806	,152195
49	,378958	,290942	,234950	,185320	,146341
50	The second secon	,283846	,221463	,179053	,140713
51 52	,364243	,276923	,215013	,172998	,135301
53	,350099	,270169	,208750	,161496	,125093
54	,343234	,263579	,202670	,156035	,120282
55	,336504	,257151	,196767	,150758	,115656
56	,329906	,250879	,191036	,145660	,111208
57 58	,323437	,244760	,185472	,140734	,106930
59	,317095	,238790	,180070	,135975 ,131377	,102817
60	,304782	,227284	,169733	,126934	,095060
Ti	2 per C	21 per C.	3 per C.	3 per C.	4 per C.
-	-	-	37	3270	77.

t

T	The present Value of 1 l. at Comp. Interest. 7							
n	-		16 per C.					
1	1 0	was a second sec	943396	934579				
	915730		,889996	,873439	,857339			
	,876297	,863838						
1 5	,802451	1,783526	1747258	712986	,680583			
1	11111	,746215	,704961		,630170			
1 8	37,34328	,676839			,583490			
9	,672904	,644609	,591898	,543934	,500249			
10	100	-			Control Spinish Spinish Spinish Spinish			
11	011	,584679		475093				
13	,564272	,530321	,468839	414965	,367698			
14		,505068	,442301	,387817	,340461			
15		,481017		,362446	,315242			
17	1,473176	,436297	,371364	1,310574	,270269			
18	CONTRACTOR OF STREET	,415521	,350344		1 1/			
19		395734	,330513	,276508	,231712			
2.1	-	358942	,294155	,241513	,198656			
22	,379701	,341850	,277505	,225713	,183941			
23		325571	,261797	,210947	,170315			
24		,310068	,246979	,197147	,157699			
26	,318402	,281241	.219810	,172195	,135202			
27		,267848	1207368	,160930	,125187			
29	3 - 1 - 11	,255094	,195630	,150402	,115914			
30		,231377	,174110	,131367	,099377			
31	,255502	,220359	,164255	,122773	,092016			
32	,244501	,209866	,154957 ,146186	,114741	,085200			
34		,190355	,137912	,107235	,078889			
35	,214254	,181290	,130105	,093663	,067635			
36	,205028	,172657	,122741	,087535	,062625			
38	,187750	,156605	,109239	,076457	,053690			
39	,179665	,149148	,103056	,071455	,049713			
40	,171929	,142046	,097222	,066780	,046031			
4I 42	,164525	,135282	,091719	,058329	,042621			
43	,150661	,122704	,081630	,054513	,036541			
44	,144173	,116861	,077009	,050946	,033834			
45	,137964	,111297	,072650	,047613	,031328			
47	,126338	,100949	,064.658	,041587	,026859			
48	,120898	,095142	,060998	,038867	,024869			
49 50	,115692	,091564	,057546	036324	,023027			
51	,105942	,083051	,051215	031727	,019742			
52	,101380	,079096	,048310	,029651	018280			
53	,097014	,075330	,045582	,025099	,016925			
54	,088839	,068326		024204	,014511			
56	,085013	,065073	,038271	,022621	,013436			
57	,081353	,059023		019758	,012441			
58	,077649	,056212	,034061	1018465	,011519			
60	,071289	,0535.0	,030314	017257	,009896			
Ys.	4 perC.	5 per C.	6 per C.	7 per C.	8 per L.			
	-	dreit northedress						

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18	Applied Se	TA	BLEI	V.	1
Ys.	2 per C.	21 per C.	3 ter C.	3/1 per C.	4 per C.
I	1,000000	1,000000	1,000000	1,000000	1,000000
2	2,020000	2,025000	2,030000	3,106225	2,040000
3 4	3,060400	3,075625 4,152516	3,090900 4,183627	4,214943	3,121600 4,246464
56	5,204040	5,256329	5,309136	5,362466	5,416323
1 1	6,308121	6,387737	6,468410	6,550152	6,632975
7 8	7,434283 8,582969	7,547430 8,736116	7,662462 8,892336	7,779408 9,051687	7,898294 9,214226
9	9,754628	9,954519	10,159106	10,368496	10,582795
10	10,949721	11,203382	11,463879	11,731393	12,006107
11	12,168715	12,483466	12,807.796	13,141992	13,486351
12	13,412090	13,795553	14,192030	14,601962	15,025805
13	14,680332	15,140442	15,617790	16,113030	18,291911
14	17,293417	17,931927	18,598914	19,295681	20,023588
16	18,639285	19,380225	20,156881	20,971030	21,824531
17	20,012071	20,864730	21,761588	22,705016	23,697512
18	21,412312	22,386349	23,414435	24,499691 26,357181	25,645413
19	22,840559	23,946007 25,544658	25,116868 26,870374	28,279682	27,671229
21	25,783317	27,183274	28,676486	30,269471	31,969202
22	27,298984	28,862856	30,536780	32,328902	34,247970
23	28,844963	30,584427	32,452884	34,460414	36,617880
24	30,421862	32,349038	34,426470	36,666528	39,082604
25	32,030301	34,157764 36,011708	36,459264	38,949857 41,313102	41,645908
26	33,670906	37,912001	38,553042 40,709634	43,759060	44,311745
28	37,051210	39,859801	42,930923	46,290627	49,967583
29	38,792235	41,856296	45,218850	48,910799	52,966286
30	40,568079	43,902703	47,575416	51,622677	56,084938
31	42,379441	46,000271	50,002678	54,429471	59,328335
32	44,227030	48,150278	52,502759	57,334502	62,701469 66,209527
34	48,033802	52,612885	57,730177	63,453152	69,857909
35	49,994478	54,928207	60,462082	66,674013	73,052225
36	51,994367	57,301413	63,275944	70,007603	77,598314
37	54,034255 56,114940	59,733948	69,159449	73,457869	81,702246 85,970336
39	58,237238	64,782979	72,234233	80,724906	90,409150
40	60,401983	67,402554	75,401260	84,550278	95.025516
41	62,610023	70,087617	78,663298	88,509537	99.826536
42	64,862223	72,839808	82,023196	92,607371	104,819598
43	67,159468	75,660803	85,483892 89,048409	96,848629	110,012382
44	71,892710	78 55 5 2 3 2 3 81,516131	92,719861	105,781673	115,412877
46	74,330564	84 554034	96,501457	110,484031	126,870568
147	76'817176	87,667885	100,396501	115.350973	132,945390
48	79.353519	90,859582	104,408396	120,388257	139,263206
149	81,940590 84,579401	94,131072	108,540648	125,601846	145,833734
-	87,270989	100,921458	117,180773	136,582837	159,773767
51	90,016409	104,444494	121,696197	142,363236	159,773707
53	92,816737	108,055606	126,347082	148,345950	174,851306
54	95,673072	111,756996	131,137495	154,538058	182,845359
55	98,586534	115,550921	136,071620	167,580031	191,159173
56	101,558264	119,439694	141,153768	174,445332	199,805540
58	107,681218	127,511329	151,780033	181,550919	218,149672
159	110,834843	131,699112	157,333434	188,905201	227,875659
60	114,051539	135,991590	163,053437	196,516883	237.990685
Ys.	2 per C.	2½ per C.	3 per C.	3 2per C.	4 per C.
-2					

7		/	The American		C . 1	11 6	-
			The Amoi	int of	an Ani	mily of 1	1.
-	Ys.	14 per 1	C. 1 5 per	C. 1	6 per C	. 1 7 per (C 8 per C
	1	1,00000	00 1,000	0000	1,0000		- Per
	2	2,04500	2,050		2,06000	2,0700	1.00000
	3	3,13702			3,18360	3,2149	2.216100
-	4 5	4,27819 5,47071			4,37461		431 4 506
-	6	6,71689	5,525		5,63709		591 5 86660
	78	8,01915			8,39383		1 13335949
	8	9,38001	4 9,549		9,89746		192200
1	9	10,80211	4 11,026	64	11,49131	6 11,97798	39 12 18 2002
1	10	12,28820			13,18079	5 13.81644	14,48656
1	11	13 84117			14.97.64	3 15,78359	19 1661210
1	12	15,46403			16,86994	17,88845	TX Oner -
	13	17,15991	3 17,7120		18,88213		21,49529
	15	20,78405	9 19,5986		23,275970	22,55048	24,214920
	16	22,71933	7 23,6574		25,67252	27,88805	-/3172114
	17	24 74170	7 25,8403		28,21288		- 301364203
-	18	26,85508	4 28,1323	85	30,90565	33,99903	3 27.450244
	19	29,06356	2 30,5390		33.75999	37,37896	3 12 1666 I
	20	31,37 423	33,0659	THE RESIDENCE	36.78559		45,76106
	21	33.783137	7 35,7192	TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	39,992726		7 50 122000
	22	36,303378	8 38,5052		43,392290	49,00573	9 55,456755
	4	38,937030	4 ,4304		40,995828		00,893296
	5	44,565210	47,7270	99	54.8645 2	63,24903	00,704750
	6	47,570545	51,1134	54	59. 56383		13,000,040
	7	50,711324	54,6691	26 (63,705766	74,48382	3 87 250-60
100	8	53,993333			58,528112	80,69769	05 228822
	19	57,423033	62,3227		73.639798	87,34652	9 103,965936
1 3	0 .	61,007070	The second second second		79.058186	The second of th	113,282211
	1	68,666245		90 8	84,801677	102,07304	1 122 21-860
	3	72,756226	75,2988		0,889778	118,93342	377-3330/1
100	4	77,030256	85 0669	0 10	4.183755	128,25876	
13	5	81,4966:8	90,32030		1.434780	138,236878	1 30,020070
3		86,163966	95,83632	23 11	9,120867	148,913460	187 1011 9
13	7	91,041344			7.268119	100,337402	202.070220
3		96,138205	107,70954	13	5 904206	172,501020	220,3150451
39		07,030323	120,79977	3 14	4.761966	185,640292	238,941221
4		12,846688	127,83976		-	214 6000	
4:		18,924789	135,23175		5,047684	214,609570	THE RESERVE OF THE PARTY OF THE
43	1	25,276404	142,99333		5.950545 7.507577	247,776496	
44	1	31,913842	151,14300	6 19	9 758032	260,120851	
45	1	38,849965	159,70015	6 21	2,743514	285.749311	386,505617
46	!!	46,098214	168,685 6	4 221	6,508125	300,751763	418,426067
47	1	53.672633	178,11942		1,098612	329,224386	452.900152
49	110	69,859357	198,02539		2,958401	353,270093	
50	17	78,503028	209.34799		0,335905	378 999001 406,528929	530 342737
51		37,535665	220,81539	-	3,756059	435.985955	THE RESERVE AND ADDRESS OF THE PARTY OF THE
52	119	6,974769	232,856.6	328	3,281422	407,504971	620,671769
53	20	6,838634	245.49897	1 348	3,978308	501,230319	671,325510
54		7,146373	258,77392	370	917006	537,316442	785.114075
55		7,917959	272,712618	3 394	1.172027	575,928593	848,923201
56		0,937110	287,348240		822348	617,243594	917,837058
58	26	3,229280	302,71566	444	951689	661,450046	992,264022
59	27	6,074597	335,794017	502	,648790	708,752191	1072,645144
59	28		353,583718		,128181	813,520383	1159 456755
rs		per C.	5 per C.	1000000	per C.	7 per L.	3 per C
1	-					1 1	o part C
					В		

TO	TABLE V.							
17.	2 her C.	21 per C.	3 per C.1	31 per C.]	4 ter C.			
1	0,980392	,975610	,970874	,966184	,961538			
2.	1,941561	1,927424	1,913470	2,801637	,886095			
3	2,883883 3,807729	2,856024 3,761974	3,717098	3,673079	3,629895			
4 5	4,713460	4,645828	4,579707	4,515052	4,451822			
6	5,601431	5,508125	5,417191	5,328553	5,242137			
7 8	6,471991	7,170137	7,019692	6,873956	6,002055			
9	7,325481 8,162237	7,970866	7,786109	7,607687	7,435332			
10	8,982585	8,752064	8,530203	8,316605	8,110896			
11	9,786848	9,514209	9,252624	9,001551	8,760477			
12	10,575341	10,257765	9,954004	9,663334	9,385074			
13	11,348374	10,983185	10,634955	10,302730	10,563123			
15	12,849264	12,381378	11,937935	11,517411	11,118387			
16	13.577709	13,055003	12,561102	12,094117	11,652296			
17		13,712198	13, 66118	12,651321	12,165669			
18		14,353364	13,753513	13,709837	13,133939			
20		15,589162	14,877475	14,212403	13,590326			
21		16,184549	15,415024	14,697974	14,029160			
22		16,765413	15,936917	15,167125	14,451115			
23	THE RESERVE OF THE PARTY OF THE	17,332110	16,443608	15,620410	14,856842			
24	Control of the Contro	18,424376	17,413148	16,481515	15,622080			
126	20,121036	18,950611	17,876842	16,890352	15,982769			
27	20,706898	19,464011	18,327031	17,285365	16,329586			
28	The second second	19,964889	19,188455	18,035767	16,983715			
30	Contract of the Contract of th		19,600441	18,392045	17,292033			
31	22,937702	21,395407	20,000428	18,736276	17,588494			
150	23,468335	21,849178	20,388766	19,068865	17,873552			
133	Dan -	22,723686	20,765792	19,390208	18,147646			
3		23,145157	21,487220	20,000661	18,664613			
31	25,488842	23,556251	21,832252	20,290494	18,908282			
3	25,969453	23,957318	22,167235	20,570525	19,142579			
3		24,730344	22,492462	20,841087	19,367864			
3	SECTION AND DESCRIPTION OF THE PERSON OF THE			21,355072	19,792774			
4	-	25,466122	23,412401	21,599104	19,993052			
4	2 28,234794	25,820607	23,701359		20,185627			
4					20,370795			
	29,079963			22,495450	20,720040			
	6 29,892314	27,154170	24,775449	22,700918	20,884654			
	7 39,28658		25,024708	22,899438				
	8 30,673120			23,091244	21,195131			
	0 31,42360			23,455618	21,482185			
124	31,78784	9 28,64615	25,951227	23,628616	21,617485			
	32,14495	0 28,92308	1 26,166240	23,795765	21,747582			
	32,49504 32,83828	9 29,193240	26,374990					
	54 32,83828	8 29,71397			22,108612			
	56 33,50469	4 29,96485	8 26,96546	4 24,409713	22,219819			
	57 33,82813	1 30,20961	7 27,15093	6 24,550448				
	58 34,14522 59 34,45610	7 30,44840	7 27,33100					
	60 34,76088	7 30,90865	6 27,67556					
1	Ys. 2 ner C.	THE RESERVE AND ADDRESS.			4 per C			
			9					

The present Value of an Annuity of 1 l. 11									
n.	1	5 per C.	6 per C.	1 7 per -	8 per C.				
1	,956938	,952381	,943396		,925926				
2	1,872668	1,859410 2,723248	1,833393	2,624316	1,783265				
3 4	3,587526	3,545951	3,465106	3,387211	3,312127				
	4,389977	4,329477	4,212364	4,100197	3,992710				
5	5,157872	5,075692	4,917324	4.766540	4,622880				
78	5,892701	5,786373	5,582381	5,389289	5,206370				
100	6,595886	6,463213	6,801692	5,971299 6,515232	5,746639				
10	7,912718	7,107822	7,360087	7,023582	6,246888				
11	8,528917	8,306414	7,886875	7,498674	-				
12	9,118581	8,863252	8,383844	7,942686	7,138964				
13	9,682852	9,393573	8,852683	8,357651	7,903776				
14	10,222825	9,898641	9,294984	8,745468	8,244237				
15	10,739546	10,379658	9,712249	9,107914	8,559479				
16	11,234015	10,837770	10,105895	9,446649	8,851369				
17	11,707191	11,689587	10,477260	10,059087	9,121638				
119	12,593294	12,085321	11,158116	10,335595	9,503599				
20		12,462210	11,469921	10,594014	9,818147				
21	13,404724	12,821153	11,764077	10,835527	10,016803				
22	13,784425	13,163003	12,041582	11,001241	10,200744				
23	14,147775	13,488574	12,303379	11,272187	10,371059				
24	14,495478	13,798642	12,550358	11,469334	10,528758				
25	14,828209	14,093945	12,783356	11,653583	10,674776				
27	15,451303	14,375185	13,210534	11,986709	10,809978				
28	15,742874	14,898127	13,406164	12,137111	11,051078				
29	16,021889	15,141074	13,590721	12,277674	11,158406				
30	16,288889	15,372451	13,764831	12,409041	11,257783				
31	16,544391	15,592811	13,929086	12,531814	11,349799				
32	16,788891	15,802677	14,084043	12,646555	11,434999				
33	17,022862	16,002549	14,230230	12,753790	11,513888				
34	17,461012	16,192904	14,498246	12,947672	11,586934				
36	17,666041	16,546852	14,620987	13,035208	11,717193				
37	17,862240	16,711287	14,736780	13,117017	11,775179				
38	18,049990	16,867893	14,846019	13,193473	11,828869				
39	18,229656	17,017041	14,949075	13,204928	11,878582				
40	18,401584	17,159086	15,046297	13,331700	11,924613				
41	18,566109	17,294368	15,138016	13,394120	11,967235				
42	18,723550	17,423208	15,306173	13,506962	12,006699				
44	19,018383	17,662773	15,383182	13,557908	12,077074				
45	19,156347	17,774070	15,455832	13,605522	12,108402				
46	19,288371	17,880067	15,524370	13,650020	12,137409				
47	19,414709	17,981016	15,589028	13,691608	12,164267				
48	19,535607	18,077158	15,650027	13,730474	12,189136				
49	19,762008	18,255925	15,761861	13,800740	12,212163				
51	19,867950	18,338977	15,813076	13,832473	12,253227				
52	19,9693:0	18,418073	15,861393	13,862124	12,271506				
53	20,066345	18,493403	15,906974	13,889836	12,288432				
54	20,159181	18,565146	15,949976	13,915735	12,304103				
55	20,248021	18,633472	15,990543	13.939939	12,318614				
56	20,333034	18,698545	16,028814	13,962560	12,332050				
57 58	20,414387	18,760519	16,098980	14,003459	12,344491				
59	20,566733	18,875754	16,131113	14,021924	12,356676				
60	20,638022	18,929290	16,161428	14,039181	12,376552				
15.	4 per C.	5 per U.	6 per C.	7 per C.	8 per C.				

11,570 10,490 42,10917,06333,02078

5 p. C. 6 p. C. A. 4 p. C. 5 p. C. 16 p (

43,10322,05808,01611

L,01703,02110,02531

42 12,858

A. A D C

43 12,683 11,431 10,378

,14698 ,10397 ,05442 41

,14170,09934,06033 42

,13618,09450,05600 43

4 p. C. 5 p. C. 6 s. C. 11

TABLE VI.									
E	F.	G.	1						
The Present Value of	Logarithms of	Logarithms of							
1 l. per Annum	E.								
for a single Life.	OLOTO PATOLICIA DI CONTROLO	E-+1.							
A. s. D. C. IS D. C 6 p. C	A. 4 p C 5 p. C. 6 p. C.	4 p. C.15 p. C 6 p. C.1	A						
44 12,504 11,288 10,263	44,09705,05262,01127	,13046 ,08948 ,05165	44						
45 12,322 11,142 10,144	45,09068,04696,00621	1,12457 ,08429 ,04704	45						
46 12,135 10,092 10 021	46,08404,04108,00091	,11843 ,07889 ,04222	46						
47 11,944 10,837 9 895	47,07715,03491,99542	labera lacera	47						
48 11,748 10.679 9,765	148,06996,02853,98967	0 46.6	48						
49 11,548 10,515 9,630	49,06251 ,02181 ,98363 50,05477 ,01486 ,97736		49						
5011,344 10.348 9.492 5111,135 10,176 9,349	51,04669,00758,97077	-0	50						
52 10,921 9 999 9,201	52,03826,99996,96384		52						
53 10,702 9.817 9.049	53,02946,99198,95660	,06826 ,03411 ,00212	53						
54 10.478 9,630 8,891	54,02028,98363,94895	,05987 ,02654 ,99525	54						
55 10,248 9,437 8,729	55,01064,97483,94096	,05107 ,01857 ,98807	55-						
56 10,014 9,239 8,561			56						
57 9,773 9,036 8,387 58 9,527 8,826 8,208	57,99003,95598,92361 58,97896,94576,91424		57 58						
2 93-7	59,96731,93505,90434	The state of the s	and the same of						
59 9,275 8,011 8,023 60 9 017 8,389 7.831	160,05506 02271 ,89382	,00074 ,97202 ,94501	60						
61 8,753 8,161 7,633	61,94216,01174,88270	1,98914 1,90195 1,93617	61						
62 8 482 7,926 7,428	62,92850,89905,87087	1,97690 ,95066 ,92573							
63 8,205 7,084 7,216	63,91408,88559,85830								
64 7,921 7,435 6,997	64,89878,87128,84491	,95042 ,92609 ,90293							
65 7,631 7,179 6,770	65,88258,85606,83059	,92081 ,89846 ,87709							
66 7,333 0,915 0,535 6,643 6,292	67,84677,82236,79879	,90456 ,88327 ,86285	67						
68 6,714 6,362 6,040	68,82698,80359,78104	,88728 ,86700 ,84758							
69 6,394 6,073 5,779	69,80577,78340,76185		69						
70 6,065 5,775 5,508	70,78283,76155,74099	,84912 ,83091 ,81345							
71 5,728 5,468 5,228	71,75800,73783,71834	82789 ,81078 ,79435	71						
72 5,383 5,152 4,937 73 5,029 4,826 4,636	72,73102,71198,69346		C5 5 5 5 5 5 7 1						
111 0	74,66894,65215,63589		73						
74 4,066 4,489 4,324 75 4,293 4,143 4,000	75,63276,61731,60206	72371 71122 ,69900	74-75						
76 3,912 3 784 3,664	176,59240,57795,56396	69126 67980 66876	76						
77 3,520 3,415 3,315	177,54654,53339,52048	1,65514 ,04494 1,63499	77						
78 3,119 3 034 2,953	78,49402,48202,47026	The state of the s	78						
79 2,707 2,641 2,578	79,43249,42177,41128	,56903 ,56123 ,55365	79						
80 2,284 2,235 2,188 81 1,851 1,816 1,783	80,35870,34928,34005 81,26741,25912,25115	45500 44064 44452	80						
81 1,851 1,816 1,783 82 1,406 1,384 1,363	82,14799,14114,13450	1,38130 ,37731 ,37347	82						
83 0,949 0,937 0,926	83,97727,97174,90661	,28982 ,28713 ,28466	83						
84 0,481 0,476 0,472	84,68215 ,67761,67394	,17056 ,16909 ,16791	84						
85 0,000 0,000 0,000	85		85						
86 0,000 0,000 0 000	86		86						
A. 4 p. C. 5 p. C. 6 p. C.	1'A 4 p C 5 p. C 6 p. C	4 p. C 5 p. C. 6 p. C	1.						

114	TABLE VII.									
1	Auxiliary to Table II. and III.									
	10	H	2H	зН	4H	5H	6H	7H	8H	9H
2 per C.	2 3	,009950	,019900	,014889 ,029850 ,044889	,039800	,049750	,059700	,069650	,079600	,089550
21	1 2	,006192	,012384	,018576 ,037269 ,056076	,024768	,030960	,037152	,043344	,049536	,055728
3	2	,014889	,029778	,022251	,059556	,074445	,089334	,104223	,119112	,134001
33	1 2	,008637	,017274	,025911 ,052047 ,078411	,034548	,043185	,051822	,050459	,069096	,077733
1 4	1 2	,009853	,019706	,029559 ,059412 ,089556	,039412	,049205	,059118	,068971 ,138628	,078824	,088677
41	2	,022252	,044504	,033195 ,066756 ,100692	,089008	,111260	,133512	,155764	,178016	,200268
5	1 2	,012272	,024544	,036816 ,074085 ,111810	,049088 ,098780	,061360	,073632	,085904	,098176	, 10448
9 1	1 2	,014674	,029348	,044022 ,088689 ,134013	,058696	,073370	,088044	,102718	,117392	,132066
1 7	1 2	,017058	,034116	,051174 ,103224 ,156159	,068232	,085290	,102348	,119400	,136464	,153522
8	1 2	,019426	,038852	,058278 ,117690 ,178257	077704	,097130	,116556	,135982 ,274610	,155408	,174834

TABLE VIII.

Auxiliary to Table IV, V, and VI.

		K	zK	3 K	4K	5K	6K	7K	8K	9K
20.6.	D	004975	,009950	014925	019900	024875	,029850	,034825	,059752	.044775
24	9	,000327	.0.8654	027081	.037308	1046635	.055062	065280	,074616	082010
3	9	,011181	,022362	033543	,044724	055005	,067086	.07826	,089448	100600
32	9	01303	,026062	,030003	,052.24	.065155	.078186	.00:217	,104248	Lizano
4	9	,01487	029754	,044631	,050508	,074385	080262	104130	,119016	122802
4	9	,016720	,033440	,050160	.066880	,083600	,100320	,117040	, 33760	150480
53	9	018550	,037118	.055677	.074236	.002705	111254	120012	,148472	16anax
1 6	1	,022227	,044454	,066681	088908	,073905	,133362	,155589	,177816	200043
1 7	6	,025880	,051760	051612	,103520	,129400	,155280	,181160 ,120428	,207040	232920
α	9	,0295:9	,059038	,088557	,118076	,147595	,177114	,206633	,236152	265671
-	-			-	-			-	, , , , , ,	1 3 -

Put G for the Interest of 1 l. for any Time at any Rate specified in Tab. I.

Thus, if the Rate is 5 l. per Cent. per Ann. and the Time 7 Years, 5 Months, 27 Days.

For 7 Years — — G is ,35 For 5 Months — — G is ,020833

For 20 Days — — — G is ,002740 For 7 Days — — G is ,000959

And for 7 Years, 5 Mon. 27 Days G is ,374532

The	The Cases of a Sum of Money at Simple Interest, solved by the Table.							
Ca	Given.	Requir.	Preparation.	Solution.				
1	Sum, Time, Rate.	Interest.	Time and Rate give G.	Sum mulitiplied by G, gives the Interest.				
2	Sum, Time, Rate.	Present Value.	Time and Rate give G.	Sum divided by G more 1, gives the Present Value.				
3	Sum, Time, Rate.	Dif-	Time and Rate give G.	Sum multpl. by G, Prod. divided by G more 1, gives the Discompt.				
4	Sum, Time, Rate.	Amount	Time and Rate give G.	Sum multiplied by G in- creafed by 1, gives the Amount.				
5	Sum, Rate, Pref. Val.	Time.	Sum divided by the Pref. Val. and lef fened by 1, gives G.	Rate and G give the Time.				
2 100	Sum, Time, Pref. Val.	Rate.	Sum divided by the Pref. Val. and lef- fened by 1, gives G.	Time and G give the Rate.				

Examples.

1. What is the Interest of 500 l. for 16 Years, at 5 l. per Cent. per Ann? Here G is ,8 per Table; and the Interest is (500 × ,8 =) 400 l.

2. What is the Present Value of 900 l. due 16 Years hence, at 5 l. per

Cent. per Ann?

Here G increased by 1 is 1,8; and the Pref. Worth is $(\frac{900}{1,8})$ 500 l.

3. What is the Discompt of 9001. due 16 Years hence, at 51. per Cent.

Here G=,8; $\overline{G+1}=1,8$; and the Difcompt is $\left(\frac{0,8}{1,8}\times 900=\right)400l$.

4. What is the Amount of 5001. in 16 Years, at 51. per Cent. per Ann?

Here G+1 = 1,8; and the Amount is (500×1,8 =) 900 l.

5. In what Time will 5001. at 51. per Cent. per Ann. become 9001?

Here $\frac{900}{500} = 1.8 = G + 1$, and G is .8; and the Rate (51.) and G

give the Time, 16 Years.
6. At what Rate will 500 l. in 16 Years become 900 l?

Here $\frac{900}{500} = 1.8 = G + 1$, and G is ,8; and the Time (16 Years) and G give the Rate, 5 l. per Cent. per Ann.

Put n, for any Time; r, any Rate specified in the Tables; A, B, C, D, the several Numbers given by n and r in the IId, IIId, IVth, and Vth Tables; a, any Annuity, Rent, or Pension; p, a Principal Sum, or Present Value; m, the Amount of any Debt or Annuity. Then,

10	Given	IRe	Preparation.	S./
-	100000000000000000000000000000000000000	-	n. & r. give C.	Solution.
			7. & r. give A.	m = aC.
1		1	1	m = pA.
3	a.p.r.	m.	a = D; r. & D. give n; r. & n. give A.	m = pA.
			b	
4	a.p.n.	m.	=D; n. & D. give r; r. & n. give A.	m = pA.
5	a.n.r.	p.	n. & r. give D.	p=aD.
6	m.n.r.	p.	n. & r. give B.	p = mB.
7	a.m.n.	b.	$\frac{m}{a} = C$; n. & C. give r; r. & n. give D.	p = aD.
			a a same	P - "D.
8	a.m.r.	p.	$\frac{m}{a} = C$; r. & C. give n; r. & n. give D.	p = aD.
			a si bring that her said will be	
9	p.n.r.	a.	n. & r. give D.	$a = \frac{n}{D}$
			ad personal management of the second	D
10	p.m.n.	a.	$\frac{m}{n} = A$; n. & A. give r; n. & r. give C.	$a = \frac{m}{C}$.
			P madema	C.
11	m.n.r.	a.	n. & r. give C.	$a = \frac{m}{C}$.
		ARTE	And American County for Special Acts Special Prof. 1997	Aug C
12	p.m.r.	a.	$\frac{m}{n} = A$; r. & A. give n; n. & r. give C.	$a=\frac{m}{C}$.
		000	Contract of the Contract of the last	G
13	p.m.r.	n.	$\frac{m}{n} = A$; r. A. give	n.
14	a.p.r.	n.	$\frac{p}{a} = D$; r. & D. give	n.
		100	The state of the s	to send for it.
15	a.p.m.	n.	$\frac{m}{p} = A; \frac{m}{a} = C; \frac{A - 1 \times 100}{C} = r; r. & A. give$	n.
		1000	tong and property of the second	
16	a.m.r.	n.	$\frac{m}{a} = C$; r. & C. give	n.
9 1				CAN DE LANGE DE LA
17	a.p.m.	7.	$\frac{m}{p} = A; \frac{m}{a} = C;$	A-1×100
1	100			C
18	p.m.n.	r.	$\frac{m}{p} = A;$ n. & A. give	r. sall
		1		
19	a.m.n.	r.	$\frac{m}{a} = C; n. \& C. give$	r.
				indianate and
20	a.p.n.	r.	$\frac{p}{a} = D$; n. & D. give	r.
1		-	()	1000

Put n = Time of Continuance; N = Time of Commencement.

C.	Given.	R.	Preparation.	Solution.
21	a.r.n.N.	5,	$N \& r$, gives D ; $n + N \& r$ gives Δ .	$b=a\times\Delta-D$
22	p.r.n.N	a	$N\& r$. give D ; $n+N\& r$. give Δ .	$a = \frac{p}{\Delta - D}$
23	a.p.r.N.	12	$N\&r. \text{ give } A; pA=m; \frac{m}{a}=D; D\&r. \text{ give }$	n.
24	a.p.r.n.	N	n&r give D; $aD=m$; $\frac{m}{p}=A$; A &r. give	N. Sand W

FREEHOLD ESTATES in Reversion.

25 a. r. N. p. r. & n. give B.
$$p = \frac{100aB}{r}$$
26 p. r. N. a. r. & n. give A.
$$a = \frac{pAr}{100}$$
27 p. a. r. N. $\frac{100a}{pr} = A$; - - - A & r. give N.

28. To find the Amount (m) of any Sum of Money (p), for Years (n) and Quarters of a Year (q), at any Rate of compound Interest specified in the Tables (r).

Now (Tab. 2.) n. & r. give A; (Tab. 7.) q. & r. give H. And $A' = A \times \overline{H+1}$: Then m = p. A'.

EXAMPLE.

What is the Amount of 100 1, forborn 7 Years at 41 1. per Cent. Compound Interest?

The Operation.

1=1,406538

And $(m = pA' = 1,406538 \times 100 =)$ 140,6538 l. is the Amount required.

29. To find the Present Value (p) of any Sum of Money (m), due at the End of (n) Years, and (q) Quarters of a Year, at the Rate (t).

Now (Tab. 3.) n+1 & r. give B; (Tab. 7.) 4-q & r. give H; and $B! = B \times H + 1$: Then p = mB'.

EXAMPLE.

What is the Present Worth of 140,6538 !. due at the End of. 73 Years at 41 per Cent. Compound Interest?

8. &
$$4\frac{1}{2}$$
. give $B = 0.703185$ ($= \frac{7}{10} + \frac{3}{10000} + \frac{2}{10000}$).
1 & $4\frac{1}{2}$ give H ? $7746 = \frac{1}{10}7$ H
= 0.011065 3 $= \frac{1}{100000}$ 33 $= \frac{1}{100000}$ H
2 $= \frac{1}{1000000}$ H

B' = 0,710966

And $(p = mB^1 = 0.710966 \times 140.6538 =)$ 100 l. = Prefent Value required.

30. To find the Amount (m) of any Annuity (a), payable by equal half yearly (h) or quarterly (q) Payments, for any Number of Years (n) the Rate (r).

Now (Tab. 4.) n. & r. give C; (Tab. 8.) h. or q. and r. give K; and $C' = C \times K + 1$: Then m = aC'.

EXAMPLE.

What will an Annuity of 100 l. per Ann. payable quarterly for 7 Years, amount to at 42 per Cent. per Annum?

$$C = 8,019151$$
 And $K = ,016720$
 $133760 = 8 K$
 $167 = \frac{1}{100} K$
 $150 = \frac{1}{10000} K$
 $3 = \frac{1}{10000} K$
 $8,153231 = C'$

And $(m = aC' = 8,153231 \times 100 =)$ 815,3231 L the Amount required.

31. To find the Present Worth (p) of any Annuity (a), payable by equal half yearly (h) or quarterly (q) Payments, for any Number of Years (n) at the Rate (t).

Now (Tab. 5.) n. & r. give D; (Tab. 8.) h. or q. & r. give K; and $D' = D \times \overline{K+1}$: Then, p = aD'.

EXAMPLE.

What is the Present Worth of an Annuity of 100 l. per Ann. payable quarterly for 7 Years, at 41 per Cent. per Annum?

D=5,892701 And
$$K=$$
,016720
83600 = 5 K
13376 = $\frac{1}{10}$ 8 K
1505 = $\frac{1}{10}$ 9 K
33 = $\frac{1}{10}$ 002 K
12 = $\frac{1}{10}$ 007 K

And $(p=aD^1=5,991227 \times 100=)$ 599,1227 *l.* the Prefent Worth required.

32. To find the present Value (p) of any Annuity (a), to continue during & Life of a given Age (y), at any Rate of Interest specified in Tab. 6.

Now y. & r. give E in (Tab. 6.); Then, p = a E.

33. To find the present Value (p" & P") of any Annuity (a) to continue during the Life of the shortest and longest Liver, of two Persons of the Ages y' and y"; at any Rate of Interest specified in Tab. 6.

Now, (Tab. 6.) y'. & r. give E'; y!. & r. give E!; And E' + E!! = M:

(Tab. 6.) L. & r. give R; y'. & r. give F'; y'' & r. give F!';
And F'+F''+R=X:

y'. & r. give G'; y'' & r. give G'; and G' + G'' = Z:

The Numbers to the Logarithms X, Z, are x, z; let $2 = \frac{x}{z-x}$:

Then, p'' = a 2; and $P'' = \overline{M - 2} \times a$.

34. To

34. To find the Present Value (pm and Pm) of any Annuity (a) to continue during the Life of the shortest and longest Liver of three Persons of the Ages y', y' and y''; at any Rate of Interest specified in Tab. 6.

Now in Tab. 6. y! & r. give E', F', and G';
y'' & r. give E'', F'', and G'';
y''' & r. give E''', F''', and G''';
L & r. give R: Put E' + E'' + E'' = M:
And,
$$F' + F'' + R = X'$$
: Also, $G' + G'' = Z'$:
 $F' + F''' + R = X''$: $G' + G'' = Z''$:
 $F' + F''' + R = X'''$: $G'' + G'' = Z'''$:
 $F' + F''' + R = X'''$: $G'' + G''' = Z'''$:
 $F' + F''' + F''' + R = X''''$: $G'' + G''' = Z'''$:

The Number of the Logarithms X^1 , X^{11} , X^{111} , X^{111} , and Z^1 , Z^{11} , Z^{111} , Z^{111} , are x^1 , x^{11} , x^{111} , x^{111} , and z^1 , z^{11} , z^{111} ; $Z^{111} = \frac{x^{111}}{z^{111} - x^{111}}; \quad Z^{111} =$

Then, $p''' = a 2^{1111}$; and $P''' = \overline{M + 2^{1111} - S \times a}$.

EXAMPLE.

What is the Present Worth of an Annuity of 100 l. payable during the Life of the longest Liver of 3 Men, whose Ages are 40, 37, 34 Years, allowing Interest at 5 per Cent.?

 35. To find the Present Value (p) of any Annuity (a) for one or more Lives, when payable by equal half Yearly (b) or Quarterly (q) Payments.

(Tab. 8.) b, or q, & r. give K. Put W for the Present Worth of (a) at Yearly Payments found by Case 32. 33. or 34.

Then $p = W \times K + 1$.

EXAMPLE.

What is the Present Worth of an Annuity of 100 l. payable Quarterly during the Life of the longest Liver of three Men whose Ages are 40, 37 and 34 Years allowing Interest at 5 l. per Gent?

By the preceeding Exam. W=1721.7 And (Tab. 8.) K=.018559 $18.6 = 1000 \times K$

 $13,0 = 100 \times 7 K$ $4 = 10 \times 2 K$

1. 1753,7 = Present Worth required,



1	2.2	ТА	В. П	X. U	Jeful	in som e	Brane	bes of	Trade.	
1	R	D	20	3D	4D	5D	6D	7D	180	9D
I	0: 5	1,0025	2,005	3,0075	4.0	5,0125	6,015	7.0175	8,02	
١	0:10	1,005	2,015	3,015	4,02	5.0375	6,03	7,035	8,04	9,045
1	1:0	1,01	2,02	3,03	4,04	5,05	6.06	7,07	8,08	9,09
١	1:10	1,0125	2,025	3.0375	4,05	5 0625	6,075	7,0875	8,10	9,1125
I	1:15	1,015	2,03	3,045	4,06	5,0875	6,105	7,105	8,12	9,135
١	2:0	1,02	2,04	3,06	4,08	5,10	6.12	7,14	8,16	9,1575
1	2:5	1,0225	2,045	3,0675	4,09	5,1125	6,135	7,1575	8,18	9,2025
۱		1,025	2,05	3,075	4,10	5,125	6,165	7,175	8,20	9,225
١	3: 0	1,0275	2,055	3,0825	4,11	5,1375	6,18	7,1925	8,22	9,2475
١	3: 5	1,0325	2,005	3,0975	4,13	5,1625	6,195	7,2275	8,26	9,27
1	3:10	1,035	2,07	3,105	4,14	5 175	6,21	7,245	8 28	9,315
1	3:15	1,0375	2,075	3,1125	4,15	5,1875	6,24	7,2625	8,30	9,3375
1	4: 5	1,0425	2,085	3,1275	4,17	5,2125	6,255	7,2975	8.34	9,36
1	4:10	1,045	2,09	3,135	4,18	5,225	6,27	7,315	8,36	9,405
1	4 15	1,0475	2,095	3,1425	4,19	5 2375	6,285	7-3325	8,38	9,4275
1	5.5	1,0525	2,105	3,1575	4,21	5,2625	6,315	7,3675	8,40	9,45
1	5:10	1,055	2,11	3,165	4,22	5,275	6,33	7,385	8,44	9:4725
1	5: 15	1,0575	2 115	3,1725	4,23	5,2875	6,345	7,4025	8 46	9,5175
Ì	6: 5	1,0625	2,125	3,18	4,24	5,30	6,36	7,42	8,48	9,54
١	6:10	1,065	2,13	3,195	4,25	5,325	6,39	7:4375 7:455	8,50	9,5625
1	6:15	1,0675	2,135	3,2025	4,27	5,3375	6,405	7:4725	8,54	9,607
1	7:0	1,07	2,145	3,2175	4,28	5,35	6,435	7,49	8,56	9,63
	7:10	1,075	2,15	3,225	4,29	5,375	6,45	7,5075	8,58	9,6525
1	7:15	1,0775	2,155	3,2325	4,31	5.3875	6,465	7,5425	8,62	9,6975
	8:0	1,08	2,16	3,24	4,32	5,40	6,48	7,56	8,64	9,72
	8:5	1,0825	2,165	3,2475	4,33	5.4125	6,495	7,5775	8,66	9,7425
1	8:15	1,0875	2,175	3,2625	4,34	5,4375	6,525	7,595	8,68	9,765
	9: 0	1,09	2,18	3,27	4,36	5,45	6,54	7,63	8.72	9,7875
	9:5	1,0925	2,185	3,2775	4,37	5.4025	6,555	7,6475	8.74	9,8325
1	9:15	1,0975	2,195	3,2925	4,38	5,4875	6,585	7,665	8,76 8,78	9,855
	10; 0	1,10	2,20	3.30	4,40	5,50	6,60	7-70	8,80	9,8775
1	10: 5	1,1025	2,205	3,3075	4,41	5,5125	6,615	7-7175	8,82	9,9225
1	10:10	1,105	2,21	3,315	4,42	5,525 5,5375	6,63	7.735	8,84	9,945
	11: 0	1,11	2,22	3,33	4,44	5.55	6,65	7,7525 7,77	8,86	9,9675
	11: 5	1,1125	2,225	3,3375	4,45	5,5625	6.675	7,7875	8,90	9,99
	11:10	1,115	2,23	3,345	4,46	5,575	6,69	7,805	8.92	10,035
	12: 0	1,12	2,24	3,36	4,47	5,60	6,72	7,82 2 5 7,84	8,94 8 96	10,0 75
	12: 5	1,1225	2,245	3,3675	4,49	5,6125	6,735	7,8575	8,98	10,08
	12:10	1,125	2,25	3,375	4.50	5,625	6,75	7,875	9.00	10,125
1	12:15	1,1275	2,255	3,3825	4,51	5,6375	6,765	7,8925	9,02	10,1475
	13: 5	1,1325	2,265	3,39	4,52	5,6625	6,795	7,91	9,04	10,17
1	13:10	1,135	2,27	3,405	4,54	5,675	0,81	7,945	9,08	10,1925
M	13:15	1,1375	2,275	3,4125	4,55	5,6875	6,84	7,9525	9,10	10,2375
	14: 5	1,1425	0-	3,4275	4,56	5,70	6,855	7,98	9,12	10,26
	14:10	1,145	2,29	3,435	4,58	5,725	6,87	7,9975 8,015	9,14	10,2825
	14:15	1,1475		3,4425	4,59	5.7375	6,885	8,0325	9.18	10.3275
100	15: 0 R	D	2,30	3,45	4,60	5.75 5D	6,90 6D	8,05	9,20	10,35
134				30	40	,,,,	OL)	7D 1	8D	9D

		ГАВ.	X.	Useful i	in some	Branche.	s of Ir	ade.	23
R	L	2L	3L	4L	5L	6L	7L	L 8L	9L
0: 5	99751	1,99501	2,99252	3,99003	4,98753	5,98504	6,98254	7,98005	8,97756
0:15	,9925 6	1,98511	2,97707	3,97022	4,06278	5,95533	6,96517	7.04045	8.02200
I: 0	,00010	1,08020	2,97030	3,90040	4.05050	5,94050	6,03060	7.02070	8.01080
1: 5	,98705	1,97531	2,90290	3,95002	4,93827	5,92593	6,91358 6,89655	7,90124	8,88889
1:15	.08280	1,905001	2,04840	3.03120	4,01401	5,00001	0.87001	7.86241	881000
2: 0	08030	1,90078	2,94118	3,92157	4,00100	5,88235	0,86275	7.84214	8 82252
2: 5	,97561	1,95122	2,93399	3,90244	4,87805	5,85366	6,84597	7,82390	8,80196
2:15	97324	1,94647	2,91971	3,89294	4,86618	5,83942	6,81265	7,78580	8,75012
3: 0	,97087	1,94175	2,91262	3,88350	4,85437	5,82524	6,79612	7-76600	8.73786
3: 5	,90852	1,93705	2,90557	3,87409	4.82002	5,81114	6,77966	7,74818	8,71671
3:15	,96386	1,92771	2,89157	3,85542	4,81928	5,78313	6,74699	7.71084	8,67470
4: 0	,96154	1,92308	2,88462	3,84615	4,80769	5,76923	6,73077	7,69231	8,65385
4:10	95923	1,91388	2,87081	3,82775	4,79010	5,75540	6,69857	7,07380	8,61244
4:15	,95465	1,90931	2,86396	3,81862	4,77327	5,72792	6,68258	7,63723	8,50180
5:0	,95238	1,90470	2,85714	3,80952	4,76191	5,71429	0,66667	7,61905	8,57143
5: 5	,95012	1,90024	2,84260	3,80048	4,75059	5,70071	6,65083	7,60095	8,55107
5:15	,94503	1,09125	2,83688	3,78251	4,72813	5,67376	6,61029	7.56501	8-51064
6: 0	,94340	1,88679	2,83019	3,77359	4,71608	5,66038	6,60377	7.54717	8.40057
6:10	,94110	1,87793	2,81600	3,75587	4,70588	5,62280	6,58824	7,52941	8,47059
0:15	,93077	1,87354	2,81030	3,74797	4,68384	5,62061	6,55738	7.40415	8,43001
7: 0	,93458	1,86916	2,80374	3,73832	4,67290	5,60748	6,54206	7,47664	8,41122
7: 5	,93240	1,86047	2,79070	3,72900	4,05116	5,58140	6,52681	7.45921	8,39101
7:15	,92807	1,85615	2,78422	3,71230	4,64037	5.56845	6,49652	7.42450	8.35267
8: 0	,92593	1,85185	2,77778	3,70370	4,62963	5.55556	6,48148	7.40741	8,22222
8: 5	,92379	1,84232	2,77130	2.68664	4.60830	5.54273	6,46652	7,39031	8,31409
1 8:15	91954	1,03900	2,75002	3,07010	4,59770	5.51724	0,430701	7.35022	8,275861
9: 0	,91743	1,83480	2,75229	3,00972	4,58710	5,50459	0,42202	7,33045	8,25688
9: 5	,91533	1,82648	2,73974	3,65297	4,56621	5,47045	6,40732	7,32200	8,23799
0:15	,91116	1,82232	2,73349	3,04405	4,55581	5,46607	6,27813	7,28030	8,20046
10: 0	,90909	1,81818	2,72727	3,03030	4,54545	5 45454	6,36363	7,27272	8,18181
10:10	,90703	1,80006	2,72108	3,02812	4.53515	5,44218	6,34921	7,25024	8,16327
10:15	,90293	1,80587	2,70880	3,01174	4,51467	5,41761	6,32054	7.22348	8,12641
111: 0	,90090	1,80190	2,70270	3,00300	4,50450	5 40540	6,30630	7.20720	8,10810
11:10	.80686	1,79775	2,60058	3,58744	4,48431	5,39320	6,29214	7.19101	8,08989
11:15	,89485	1,78971	2,68456	3,57942	4,47427	5,36013	6,26398	7.15884	8,05360
12: 0	,89280	1,78571	2,07857	3,57143	4,40429	5.35714	0,25000	7.14286	8,02571
12: 5	,88889	1,77778	2,66667	3,55556	4,44445	5,33333	6,23613	7.11111	8,00000
12:19	,88692	1,77384	2,66075	3,54767	4,43459	5,32151	1,20843	7,09534	7.08226
113: 0	,88496	1,70991	2,05487	3,53982	4,42478	5,30974	6,19469	7,07905	7,96460
13: 5	88106	1,70000	2,64315	3,53201	4,41501	5,29801	6,18102 6,16740	7,00402	7:94702
13:15	,87912	1,75824	2,63736	3,51648	4,39560	5,27472	6,15384	7,03296	7,91208
14: 0	87719	1,75439	2,63158	3,50877	4,38597	5,26316	0,14035	7 01754	7,89474
14: 10	87326	1,74672	2,62000	3,40345	4,3668	5,25104	6,11354	6,08600	7,86026
14:19	5,87146	1,74292	2,61438	3,48584	4,35739	5,22876	0,10022	6,97168	7,84314
15: 0	,30957	73913	2,60870	3,47826	4,3478	5,21739	5,08696	6,95652	7,82609
R	I L	1 2L	1 3L	1 4L	1 5L	1 66	7L	I SL	9L

The Number R, in Col. 1, may fignify, either,

- The Rate of Exchange between England and Ireland, or between England and the American Colonies; that is, the Advance on 100 l. of Irish or Plantation Money to make it equal to 100 l. Sterling: In which Case D, in the other Columns, will be the Value of 1 l. Sterling in Irish or Plantation Money, and L, the Value of 1 l. Irish or American in English Money.
- 2. The Gain on 100 l. in buying or felling; and then D will be the felling Price of that Quantity of Goods, which coft 1 l.; and L, the prime Coft of that Quantity, which fells for 1 l.
- 3. The Advance of 100l. Stock above Par: when D will be the Value in Money of 1l. Stock; and L, the Quantity of Stock that can be purchased for 1l.

EXAMPLE. I.

A Merchant in London, remits to his Factor in Dublin 7361. Sterling; how much Irifb Money will the Factor receive, when the Rate of Exchange is 121. 10 s. per Cent?

Or, What must Goods which cost 7361. be fold for, if 122 per

Cent. is to be gained by the Sale?

Or, What will 736 l. of South Sea Annuities cost at 121 per Cent. or when fold at 112 l. 10 s. for 100 l.?

R = 12 l. 10 s. gives 1,125 = D (in Tab. 9.) and $736 \times D$ will be
Then $787.5 = 100 \times 7D$ (the Answer. $33.75 = 10 \times 3D$ 6.75 = 6DAnd the Sum = 828.00 = 736D

EXAMPLE. II.

A Merchant in Dublin remits to his Correspondent in London 828 1. Irish, when the Exchange was 121. 10 s. per Cent. How much will be received in London?

Or, In felling Goods for 828 l. the Gain was 121 per Cent. What

was the prime Coft?

Or, How much South Sea Stock for 828 l. when it is fold at 112;

R=12h 10 s. gives 0,88889 = L (in Tab. 10.) And $82.8 \times L$ will be

Then $711,111 = 100 \times 8L$ (the Answer: $17,778 = 10 \times 2L$ 7,111 = 8LAnd the Sum 730,000 = 828L

TAB.

TABLE XI.	1 10		
Values of Foreign Silver Coins.	Affay	-	Val.
	dwt.	dw gr	d
The Piastre or Piece of 8 Reaus, now 10 Reaus, New Seville Piece of Eight,	10. 1	17 12	54
Mexico Piece of Eight,	12	14	43.11
Pillar Piece of Eight,	Stan.	17 100	53.83
Peru Piece of Eight of uncertain Allay;	Joran.	17 9	53.87
Old Ecu of France of 60 Sols, Turnois,	w. 1	17 12	54
New Ecu of France 100 Sols, 2dw. w. by Law, Crusado of Portugal of 400 Reas, now 480 Reas,	11/2	19 141	60.39
Patacks or Patagons of 500 Reas, now 600 Reas,	2	11 4	34.31
Ducaton of Flanders of 60 Sols, or Patars,	6. 41	See N	Alexand I
Patagon or Crofs-Dollar of 48 Patars,	b. 41/2	18 1	66.15
Ducaton of Holland of 63 Styvers,	6. 3	20 21	52.91
Patagon, Leg Dollar, or Rixdollar, of 50 Styvers, The three Guilder Piece, of 60 Styvers,	20.14	18	52.28
Guilder Florin, of 20 Styvers,	2	20 8	62.46
The 10 Shelling Piece of Zeland, of 60 Styvers,	2	6 181	20.08
Lyon Dollar of Holland, of 42 Styvers,	44	20 6	62.21
Ducatoon of Cologn,	6. 3	17 14 20 18	43.07
Rixdo'lar, or Patagon of Cologn,	10.13	18 0	52.53
Rixdollar, or Patagon of Bishop of Liege, Rixdollar of Mentz,	12	17 221	55.48
Rixdollar of Frankfort,	62	18 8	55 27
Rixdollar of Elect. Palatine, before 1620.	9	18 8	54.53
Rixdollar of Nuremburg,	6	18 10	55-55
Rixdollar of Lunemburg, Rixdollar of Hanover,	10	18 11	54 65
Double Gulden of the Elect. Hanover,	8	18 12	55.03
Double Gulden, or Piece, of two thirds,	1, 7,	18 18	56.29
Half Gulden, or Piece, of one third,	5. 17± 17±	8 10	28 14
Gulden of Zell, or Piece, of 16 Gutz Groft.	10.43	4 5	14.07
Gulden of Hildesteim of 24 Manen Grofh, now 26,	401	11 22	30.21
Rixdollar of Madgburgh, Gulden, or Guilder,	10	18 12	54.27
Old Rixdollar of Elect. Brandenburgh.	44	11 14	28.67
Old Gulden of 24 Manen Grofh, now 26.	9 43	18 13	55.17
Guiden, of Fiece, of two thirds.	43	11 3	30.41
Half Gulden, or Piece, of one third,	43	5 13	13 00
Gulden of Elect. Saxony, of two thirds, Old Bank Dollar of Hamburgh,	41	11 3	28.12
Old Rixdollar of Lubec,	8	18 9	54.92
The 4 Mark Piece of Denmark,	21	18 16	55.54
The 8 Mark Piece of Sweden.	Stan	20 0	32.45 62.00
The 4 Mark Piece of Sweden,	10.58	13 12	30.92
The 2 Mark Piece of Sweden, Old Dollar of Dantzic,		6 19	
Old Rixdollar of Thorn, near Dantaic.	102	18 81	54 27
Kixdollars of Sigi mund III. and Uladi flaus IV. Kings	12	10 07	53.85
or resulta,	10	18 9	5101
Rixdollar of the late Emperor Leopold,	101	18 9	54.04
Rixdollar of the late Emperor Ferdinand III. Rixdollar of Ferdinand, Arch Duke of Austria,	102	18 9	54.27
Rixdollar of Ea/il.	101	18 5	53.78
Rixdollar of Zune.	75		56 24
Old Ducat of Venice, flamp'd, Ducatus Venetus,	13 23½	18 1	52.65
i includit 100cat.	231		20 25
The New Ducat, stamp'd 124, of 61. 41. de Picoli,	1	7 72	3
The Crusado Croisat, or St Mark, stamp'd 140, of 7		9 1	
		20 6	0 1
The Half and Quarter Crusado in Proportion,	Ha re	20 0	of The
D	-		

(20)			1
TABLE XI.	Alfay	wet.	Val.
Values of Foreign Silver Coins.	dwt.	dw.gr.	d.
Another Coin of Venice,	w.46	17 10	
The Piece of 2 Jules,	6. 6	3 15	11.05
Ducat de Banes of Naples, of 100 Grains,	10.3	14 04	40.43
The Half Ducat,	3	7 0	20.21
The Tarin, or fifth part of a Ducat, The Carlin or tenth part	3	2 194	8.09
Escudi Ecu, or Crown of Rome, of 10 Julios,	3	1 91	
Teston, of 3 Julios,	1	20 14½ 5 21½	18.22
Ducat of Fiorence and Legborn, of 10 ! Julios,	6. 8	20 3	64.62
Julios of Rome,		2 5	
	w. I	17 12	54.
Piastre Ecu, or Crown of Comus III.	1	16 18	51.69
Croifat of Genea, of 7 Lires,	6. 7	24 15	78.74
Ecu d' Argentof 7 Lires. 12 Sols,	Dell		TO PROJECT
Piastre Ecu, or Crown of Milan, Philip of Milan, of 7 Lires,	11115	17 21	07 S/IT
Livre of Savoy, of 20 Sols,	-	20 20	SCI SUA
The 10 Sols Piece,	40	3 22	Sollan III
A Roupee	165	7 10	24.07
Gout Gulden, or Florin d'or, of 28 Styvers,	10. 75	12 19	26.26
Another,	48	11 0	26 72
Another,		12 0	29 15
T A B. XII. Gold Coins unworn.	Co. gr.	dw.gr.	s. d.
Old Lewis d'Or, the 1 & 1 in Proportion,			-
New Lewis d'Or, the & & i in Proportion,	W.O 02	4 8	16:9. 3
Old Spanifo double Doublon,	0 15	5 53	67:1.4
Old Spanish double Pistole; 1 in Proportion.	0 02	18 16	33:6. 7
New Seville double Pistole; 1 & in Proportion,	002	8 16	33.
The double Moeda of Portugal, new coined,	0 01	100000000000000000000000000000000000000	26:10.4
Ditto, as they come into England,	00	6 21	26:9.9
The Moeda,	00	3 11	13:5. 1
Half Moeda, Hungary Ducat,	0 0	1 17	0:8. 5
Ducats of Holland, and of Bishop of Bamburgh,	61. 2	2 5	
Double Ducat of the Duke of Hanover,	1 2	2 5	
Ducat of the Duke of Hanover,	1 2	2 5	THE RESERVE OF THE PARTY OF THE
Ducats of Brandenburgh, Sweden, and Denmark,	1 2	A STATE OF THE PARTY AND	
Ducat of Peland,	1 2		9:2. 1
Ducat of Transilvania,	1 13		8:11.6
Sequin, Chequin, or Zacheen, of Venice,	1 32	2 5	9:5 7
Old Italian Pittole, Double Pittole of Pope Urban, 1634,	100. 0	4 6	DESCRIPTION OF THE PARTY OF THE
Half Pikole of Innocent 11, 1685,		8 14	al derivation
Double Pistole of Placentia,	I	8 10	ka inol
Double Piftble of Genea, 1621,		8 16	Polizida
Double Piftole of Milan,	1	8 13	10 1
Single Pittole of Milan,	3 61 3	4 6	
Single Piftole of Savoy,	State of the last	4 8	10:012
Double Ducats of Coffile, Genoa, Portugal, Florence	· Comment	16 10 1	OLDER !
Hungary, and Venice,	b. 1 21		18:7. 7
Single Ducats of the fame Places,	I 21/2		
Double Ducats of feveral Forms, in Germany, Single Ditto,	II	4 11	18:4.
Double Ducat of Genea,	1 1		9:2.
Single Ducats of Genoa, Befancon, and Zurich,	1 2	4 11	18:6, 5
Pistoles of Rome, Milan, Venice, Florence, Savoy, Genoa,	1000	2 5	9:3. 2
Grange, Trevon, Befancon.	W.O 0	4 6	16:6. 7
Ducat of Barbary, with Arabic Letters,	2 12		9: 3. 5
1	-	-	-

Money.

Farthings. 4=1 Penny 48 = 12 = 1 Shilling 960 = 240 = 20 = 1 Pound.

Troy Weight.

Grains

24= 1 Pennyweight 480= 20= 1 Ounce 5760=240=12=1 Pound.

Superficial Measure. Inches 144= 1 Foot 1296=9=1 Yard.

Solid Measure. nches 1728 = 1 Foot 46656 = 27 = 1 Yard. Long Measure.

Barley Corns I Inch

12== I Foot

36= 108= 3= 1 Yard 594= 198= 16½= 5½= 1 Pole 23760= 7920= 660= 220= 40=1 Furl. 190080=63360=5280=1760=320=8=1Mi.

Land Measure.

Links

625= I Pole 25000= 40= I Rood 100000== 160== 4== 1 Acre 64000000=102400=2560=640=1 Mile

Time.

Seconds

1 Minute 60m 3600= 60= 1 Hour 86400= 1440= 24= 1 Day 131556937=525949=8766=365\=1 Year.

Avoirdupois Weight.

Drams

16= 1 Ounce 256= 16= 1 Pound 28672= 1792= 112= 1 Hundred 573440=35840=2240=20=1 Ton.

Wine Measure.

Solid Inches

231=8Pints=1 Gallon 14553= 504= 63=1 Hogshead 29106=1008=126=2=1 Pipe 58212=2016=252=4=2=1 Tun.

Dry Measure.

Pints

8 = 1 Gallon

16 = 2 = 1 Peck

64 = 8 = 4 = 1 Buffiel

512 = 64 = 32 = 8 = 1 Quarter.

4 Nails = 1 Quarter of a Yard

4 Quarters = 1 Yard

5 Quarters = 1 English Ell

3 Quarters = 1 Flemish Ell

6 Quarters = 1 French Ell

1 lb. Avoird. = 7000 Troy Grains. 1 oz. Ditto = 437 Ditto

As 4: 5:: lb. Tray: lb. Avoir. 7 = As 80: 73: : 02. Troy : 02. Avoir. As 9:11:: Win. Gal. : Beer Gal.) ? Apothecaries Weight.

Grains

1 Scruple, mark'd 9 20 = 60= 3= 1 Dram, 3

480 = 24 = 8 = 1 Ounce, 3 5760 = 288 = 96 = 12 = 1 Pound.

Beer Measnre.

Sol. Inch.

282 = 8 Pints = 1 Gallon

2538 = 72 = 9 = 1 Firkin

5076=144= 18=2=1 Kilderk 10152 = 288 = 36 = 4 = 2=1 Barr.

Ale Measure.

Sol. Inch.

282 = 8 Pints = 1 Gallon

2256=64 =8=1 Firkin

4512 = 128 = 16 = 2 = 1 Kilderkin 9024 = 256 = 32 = 4 = 2 = 1 Barrel.

5 Shillings = 1 Crown

10 Ditto, = 1 Angel

63. 8 d. = 1 Noble 13 s. 4 d. = 1 Mark

Land is best measured by a Chain of 4 Poles long, divided into 100 Parts, called Links.

Note, 4840 square Yards is an Acre.

A Flikin of Soap or Herrings is equa to a Firkin of Ale.

Values of Foreign Weights and Measures.

Measures of Length. Eng. Inch	Gold and Silver Weights. Troy. Gra.
Paris Foot 12.785	Roman Ounce — 438
Venetian Foot ——— 13.944	Roman Pound of 12 Oz 5256
Rhinland Foot 12.396	<i>Spanish</i> Ounce — 443 ¹
Strasburgh Foot ——— 11.424	Spanish Pound of 16 Oz 7090
Nuremburgh Foot — 12.	Venetian Ounce — 4602
Dantzic Foot — 11.328	Venetian Pound of 12 Oz 5528
Danish Foot 12.504	Neapolitan Ounce ——— 4121
Swedish Foot 11.733	Neapolitan Pound of 12 Oz 4950
Derah, or Cubit of Cairo - 21.888	Florence, Pifa and Leghorn Oz. 4401
Persian Arish 38.364	
Greater & Turkish Pike \ 26.4 Lesser \ Turkish Pike \ 25.572	Sienna Ounce 4311
Leffer & Turkijh Pike 125.572	Sienna Pound of 12 Oz 5178
Braccio at Florence - 22.956	Genoa Ounce 4052
Braccio for Woolen at Sienna 14.904	Dutch Ounce 570
Ditto Linnen 23.688	Turkish Okey of 400 Silver
Canna at Naples - 82.56	Drachms ———— 19128
Vera at Almaria and	Turkish Silver Drachm - 4736
Gibraltar 33.12	Persian and Mogul Ditto - 4730
Palmo di Archetti at Rome 8.784	
Canna di Archetti	1 Ecuption Sherif
Palmo di Braccio di Mer-	Venet, and Barbara Chequeen
cantia 8.346	Nuremburgh Ducat
Genoa Palm - 9.78	Cairo Ratel of 144 Drachms 68863
Bolognian Foot 15.0	Damascus Ratel of 720 Drachins 34430
Anispert El - 27.390	Strasburgh Ounce - 4543
Amsterdam Ell 27.216	Strasburgh Pound of 16 Oz. 7276
Louden Ell 27.12	Nurambergh Ounce 491
Paris Drapers Ell - 47.148	Nuremburgh Pound of 16 Oz. 7870
Paris Mercers Ell -47.244	Paris Medicinal lb. of 12 Oz. 5670
	German Medicinal Oz 4603
Eng. Wi.	Carat for weighing Diamonds 151,3
Liquid Measures. Measure.	French Pound of 2 Marcs - 7560
Paris Chopine I. Pint	French Marc of 8 Oz 3780
Paris Pint 2.	French Ounce of 8 Groffe - 4721
Paris Sextier 16.	French Groffe of 3 Deniers - 5918
Paris Muid 576.	French Denier of 24 Grains 1911
Strasburgh Schoppen 0.8171	French Grain - 0. 105
Strasburgh Pint 1.6342	Cologn Marc of 8 Oz 3611
Strasburgh Malfen — 3.2684	Cologn Ounce of 8 Drachms— 451.2
Strasburgh Ohman - 98.0520	
Strasburgh Fuder 2353.25	Cologn Es - O.
9	the state of the same of the s

X	V Tables of Decimal V	alues. 29
The Decimal Value of	The Decimal Value of	The Decimal Value of
a lb. Troy. 11 11 12 11 1 12 11 11 1 12 1 1 1 1 1	2. 20 15. Sails a Sarter of the state of the	2 Year 1 Hbd 1
7 7 84 7,5833 6 6 72 6,5 5 5 60 5,4167 4 4 48 4,3333 3 3 3 3 3,25 2 2 24 2,1667 1 1 12 1,0833 18.8 1111,0764 16.16 1010,0694	1 1 2 2 2 ½ 5 ,3125 1 2 2 4 ,225 3 1 2 1 ½ 3 ,1875 2 1 1 2 ,125 1 2 ½ 1 ,0625 1 1 ½ 9 ,0391 1 ½ 9 ,0352 1 8 ,0313	30,0822 20,0548 10,0274 9,0247 8,0219 7,0192 6,0164 5,0137 4,0110 3,0082 2,0055 1,0027
15. 3 9 9,0625 13.8 8 8,0556 11.16 7,0486 10. 2 6 6,0417 8.8 5 5,0347 6.16 4 4,0278 5. 1 3 3,0208 2 2,0139 1.16 1 1,0069 1. 20 16 10042 1. 20 10042 1. 20 10042 1. 30035 1. 16 10042 1. 30035 1. 30035 1	The Decimal Value of 20ts 7	The Decimal Value of an Con An a deg. or boun 3.75 3.75 2.3 40.6667 3.05 20.1786 30.5 20.1786 30.5 20.1786 30.5 20.1786 30.5 30.5 30.1667 30.893 30.1667 30.893 30.1667 30.893 30.1667
4 3 2 1 1 1,0007 ,0005 ,0003 ,c002	Deci. Deci. Deci.	4 03 7 3 0268 2 0 79 1 0089 1 0089 1 0066 9 0050 8 0045 7,0039 6,0033 5,0028 4,0022 3,0017 2,0011 1,0067 50,0139 40,0111 30,0083 20,0056 10,0028 9,0025 8,0022 7,0019 6,0017 2,0014
		4,0011 3,0008 2,0006 1,0003

20		British .		1 14 4	LE		N. W.			
t. qu	T	2T	3 T	4T	5T	6T	_7T	8T	The second second	gr.
1	,001042	,002083	,003125	,004167	,005208	,006250	007292	.008333	,009375	
2	002082	3002167	,000250	,008333	,010417	,012500	,014505	,010007	3010750	1
2	.003125	,000250	,009375	,012500	1,015025	,018750	,021075	,025000	,020125	I.
1.	.004167	.008333	,012500	,016667	,020833	,025000	.029107	,9333333	,037500	2
1,1	,005208	,010417	,015625	,020833	,026042	,031250	,030458	,04.1007	,040875	1
1 2	antiera	012500	018750	025000	.031250	.037500	,043750	,050000	,056250	3
TO	000000	OFACKS	021875	020107	1.030458	.042750	6051042	1050333	9004024	1 3
2. 1	.008222	.010007	025000	033323	1041007	,050000	,0503331	,00000/	,0/3000	T
2.1	000275	.018750	.020125	.027500	1040075	,050250	10000025	1,07,000	2444373	1 7
2.2	,010417	,020833	,031250	,041007	,052083	,002500	,072917	,0033333	,093750	15
2.2	011458	.022017	.024275	-045833	057292	,0687501	,080208	,091007	,103125	5
2.	.012500	.025000	.027500	,050000	,002500	,075000	,007500	1000000	,112500	6
2.1	.012542	,027083	.040025	,054107	,007708	,001250	094792	,100333	,121075	6
3.2	.014583	,029167	,043750	,054333	,072917	,087500	,102003	,110007	,131250	17
	,015625			,062500	,078125	,093750	,109375	,125000	,140625	7
THE PERSON NAMED IN	,016667	.022222	000000	.066667	083333	,100000	,116667	133333	,150000	8
	,017708		.053125	.070833	,088542	,106250	,123958	,141667	,159375	8
1 2	.018750	027500	050250	075000	003750	,112500	,131250	,150000	,168750	9
4.2	.010702	030582	.050375	.079167	098958	,118750	,138542	,158333	,178125	9
The state of	.020822	-041667	,062500	.083 333	,104167	,125000	,145833	,166667	,187500	10
5.	001800	042750	065625	087500	100275	121250	,153125	175000	.106875	10
2.1	,0210/5	045822	068750	001662	114582	.137500	,160417	.183333	,206250	11
5.2	022058	047017	071875	.005822	110702	.142750	,167708	191667	,215625	11
23	025000	010000	.075000	.100000	,125000	,150000	,175000	,200000	,225000	12
6.	,025042	.052083	.078125	.104167	130208	156250	,182292	,208333	,234375	12
6	3020042	051165					,189583			1
0.2	,027003	,054107	081250	112500	140625	168750	,196875	225000	.253125	I
100	,020125	050250	087500	116660	145822	175000	,204167	222333	,262500	14
7.	,029167	050415	0000025	120822	151042	181250	,211458	,241667	271875	14
7.1	021250	062500	.002750	125000	156250	187500	,218750	250000	,281250	I
100	,03.430	-604	2068	tantha	163.458	102550	226042	.258222	200625	15
7.3	,032292	066666	,090075	129107	166667	200000	,226042	266667	.200000	16
8.	,0333333	068==0	100000	1000000	171875	206250	,240625	275000	.300375	16
0.1	,034375	0000750	1002125	141667	177082	212500	,247917	-282232	318750	17
0.2	,035417	072033	100275	145822	182202	-218750	,255208	201667	328125	15
0.3	,030450	20/291	11093/3	3147 33	.0	1010/30	abaroo	200000	227500	13
9.	,037500	,075000	,112500	,150000	,107500	,225000	,262500	208222	246875	15
9.1	,038542	,077003	,115025	154107	192700	1,232500	,269792	216667	256250	T
9-2	,039583	1,079107	1110750	150333	202125	242750	,277083	325000	265625	1
9.3	,040025	,001250	,121075	16666	208222	250000	,284375	222222	275000	20
10.	,041007	,003333	,125000	,10000/	3200333	,2,0000	,291667	211669	281250	-
10.1	,042708	,085417	,120125	,170033	,213542	1,250250	1,298958	250000	202750	2
***	DARRED	1.087500	1,131250	1.175000	1.218750	1,202500	1,300250	1,350000	12393/34	1 4
10.3	>044792	089583	1,134375	189107	1,223958	200750	313542	36666	112500	2
11.	,045833	1001007	1,137500	,103333	,229107	12/3000	,320833	275000	121875	2
11.1	,040875	1,093750	,140025	1,10/300	12343/3	1201270	328125	3973000	101070	
11.2	,047917	1,095833	,143750	,191007	1,239503	,287500	,335417	303333	1,431250	1
11.3	,048958	1,097917	140075	195033	1.244792	1,293750	,342708	1,391007	1,440023	2
12.	1,050000		,150000	,200000	,250000	,300000	,350000		- I Married Town	
d. qu		2 T	3'F	4T	5T	6T	7T	8T	9T	18
10										

T		For	finding	the Va	lue of	Mercha	ndize, E	kc.	27	31
d.94		2T]		4T	5T	6T	7T	The second second	The same of the latest	3r. b
1	,051042	,102083	,153125	,204167	255208	,306250	357292	.408333	:459375	.1
1 2	052082	.104167	.150250	.208333	,200417	,312500	,304583	4.10007	1400750	1.
3	,053125	,106250	,159375	,212500	,205025	318750	371075	,425000	4870125	1.1
I.	,054107	,108333	160600	220827	276042	221250	-286458	141667	406875	2.1
1.1	,055208	,110417	160000	,220033	281250	222500	202220	1:0000	506250	-
1.2	,050250	,112500	,100750	225000	286468	347750	401042	458222	515625	3.
	,057292	,116667	175000	222222	201667	350000	.408322	456667	.525000	3.1
2.	.050375	,118750	178125	237500	,296875	356250	,415625	475000	534375	4.1
2.2	,060417	,120833	,181250	,241667	,302083	,362500	,422917	,483533	543750	5.
2 2	061458	.122017	.184375	245833	,307292	.368750	,430208	,491667	,553125	5.1
1 0	afreen	125000	187500	250000	,312500	.375000	437500	,500000	.502500	6.
2 1	062542	1127083	.190625	.254167	,317708	,381250	444792	,5003333	571875	6.1
2.2	1.061582	.120107	.103750	258333	,322917	387500	452003	,510007	,501250	7.
3.3	,065625	,131250	,196875	,202500	,328125	393750	+59375	,525000	,590025	7.1
4.	,066667	,133333	,200000	,266667	3333333	,400noo	400007	-538333	,000000	8.
4.1	.067708	,135417	,203125	,270833	338542	,400250	181250	,541007	6009375	8.1
4.2	,008750	,137500	,200250	275000	248068	412500	1885 2	558222	628120	9.
4.3	,009792	,139583	,209375	282222	354107	125000	.405833	:66667	627500	9.1
2.	.070033	14100/	212500	282200	250275	407050	502125	575000	616800	10.
5-1	1,071875	,143750	218025	201667	364582	427500	510417	.582222	656250	111.
15.4	1072917	,147917	221875	205822	369792	443750	517708	591667	.665625	11.1
16.	1.075000	150000	,225000	, 2000000	375000	1,450000	,525000	,0000000	1,075000	12.
6.1	076042	,152083	,228125	,304167	,380208	,456250	,532292	,608333	1,684375	12.1
6.2	.077082	154167	.231250	,308333	385417	462500	,539583	,616667	1,693750	13.
16.3	078125	,156250	,234375	,312500	,390025	1,468750	1,540875	1,025000	1,703125	13.1
17.	1.070167	1,158333	237500	1,316667	,395833	1,475000	1,554107	1,033333	1,712500	14.
7.1	.080208	,160417	240625	,320833	,401042	1,481250	,501458	,041007	1,721875	14.1
7.2	,081250	,162500	,243750	,325000	,400250	487500	,508750	1050000	731250	15.
7.3	,082292	,164583	,246875	,329167	411458	+493750	,570042	1058333	3740025	15.1
1 8.	,083333	1,166667	,250000	,333333	,410007	,500000	,503333	,000005	750000	10.
8.	,084375	,168750	253125	337500	1421075	500250	507017	1682200	P759375	10.1
8.	086417	,170833	250250	1.345822	1432202	518750	,005208	1,60166	778120	17.1
0.	20-150	172000	260550	250000	127500	525000	.612500	70000	1.787500	18
19.	,087500	,175000	265600	354162	442708	1,523,000	,610702	1.70822	3 70687	18
19.	080582	,179167	268750	358222	447917	537500	,627083	1.71666	,806250	10.
10	al manage	1181250	271075	1,102700	1.453125	1.547750	134345/3	1,73500	0,015029	110-1
110.	.001667	1,1833333	,275000	1,300007	450333	1,550000	,041007	1.733333	3,025000	20.
Jin	1 002708	1.185417	1.278125	1.370833	.402542	1.550250	1,040950	74100	7 ,83437	20.1
110.	2 002750	1.187500	1,281250	1275000	1,403750	1,502500	1,050250	1,75000	0,043750	21.
110.	2 004702	1,180582	284375	370107	1.473958	1,508750	,003542	1,75033	3 + 55312	21.1
111.	1,005833	1,191007	6287500	3833333	,479107	1,575000	1,070033	1,70000	7 1,00250	0 22.
II.	1,096875	193750	,290025	+387500	484735	15 01 250	60	The second second second	0,87187	The second
II.	2,097917	,195833	3293750	391667	+489583	,587500	.085417		3 ,88125	
111	21.008053	1,107017	1,200875	1,305022	4494792	16503750	11,004700	179100	/,09002	
14.9	ul T	2T	3 F	1-41	55	1 0 L	11 7 L	8T	1 9T	Igr. 4

II. A Decimal being given, to find it's Violue in Parts of a Pennal Starting, or on Cume Trop.

Call the Double of the left hand Figure Shillings or Pennyweights;

Furthings or Green and call of T. then T gives the Pence and
Furthings or Green and talk Green, But if The found in 1925, 3.0.

and T to the Shillings of Pennyweights.

The Tables of Decimal Values, page 29, give a Number (D) equivalent to the Parts of the Weights and Measures therein specified;

For EXAMPLE.

If it be required to find the Decimal equal to 7 oz. 17 dw. 15 gr. confidered as the Parts of a Pound Troy.

In the Tables, for 7 ez. D, is ,5833 16 dw. 16 gr. D, is ,0694 20 gr. D, is ,0035 3 gr. D, is ,0005

For their Sum 7 cz. 17 dw. 15 gr. D, is ,6567

Use of the Table for finding the Value of Merchandize.

1. To find the Decimal Value of a Pound Sterling equal to any Shillings, Pence, and Farthings. Or,
To find the Decimal Value of an Ounce Troy equal to any Pennyweights,
Grains, and half Grains.

CASE I.

If the Number of Shillings or Pennyweights be even, The Pence and Farthings, or Grains and half Grains, give T in page 30.

CASE II.

If the Number of Shillings or Pennyweights be odd,

The Pence and Farthings, or Grains and half Grains, give T in

Instead of the initial o in T, write half the given Number of Shillings or Pennyweights, and then the required Decimal will be obtained.

EXAMPIEI. Required the Decimal equal to 16s. 63 d.?

(Page 30.) $6\frac{1}{4}d$. gives 0.028125 = T; and half 16s. is 8: Therefore 0.028125 is the Decimal required.

EXAMPLE II. Required the Decimal equal to 17 s. 6\frac{3}{3} d.?

(Page 31.) $6\frac{3}{4}d$. give ,078125 = T; and half 17 s. is 8: Therefore ,878125 is the Decimal required.

II. A Decimal being given, to find it's Value in Parts of a Pound Sterling, or an Ounce Troy.

Call the Double of the left-hand Figure Shillings or Pennyweights; write o instead thereof, and call it T: then T gives the Pence and Farthings, or Grains and half Grains. But if T be found in pag. 31. add t to the Shillings or Pennyweights.

EXAMPLE

EXAMPLE I.

What is the Value of ,828125 1. ?

The Double of 8 is 16s. (T =) 028125 gives $6 \frac{3}{4} d$:
Therefore 16s. $6 \frac{3}{4} d$, is the Value required.

EXAMPLE II.

What is the Value of ,878125 1. ?

The Double of 8 is 16 s. (T=) 078125 give 6\frac{1}{4} d. in pag. 31.

Therefore 17 s. 6\frac{1}{4} d. is the Value repuired.

III. To find the Value, in Money, of any Quantity of Merchandize (Q), at any given Price.

1. Express (by Tab. 15, or 16.) the Parts of Q (if any) decimally.

2. Multiply 2 by the Pounds of the Price.

3. Multiply one tenth of 2 by half the Shillings of the Price:

4. If the Shillings of the Price be \ even \, the Pence and Far-

things of the Price will give T, 2T, 3T, &c. in Page \ 30 \}.

5. Find by the Table the Product of 2 multiplied by T.

6. The Sum of the three Products will be the the Value required.

EXAMPLE.

What will 539 oz. 11 dw. 18 gr. of Gold coft at 3 l. 12 s. 24 d. per oz?

1. 2 decimally decimally express'd is 539,5875 by Art. I. of this

mi a	
2. Th. 2×31. is	1618,7625
3. And 10 2 × 6 (= 12 s.)	is 323,7525
4. 24 d. give T = ,011458	$(5,7292 = 100 \times 57$
	,3438 = 10 × 3 T
5. 2 × T is per Table	< ,1031 = 9 T
3C x 2 to per 1 abic) ,0057 = 10 × 5 T
	(,0009=160×9T
	- , - 100 11 3 1

6. The Sum of which = 1948,6977 = (per Art. II.)
1948 l. 13 s. 11 d. is the Value required.

34		-					T	I	ī	В	L	E	X	V	11						1	
N.I	11	317	19		1	N,	1	31	71	9	1 1	N	1	3	7	9		N.	1	3	21	9
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2	3	3	3 3		-	63	3	7	3 7	3		122	3	3	3	3		182	3	3	10	31
4 5 6	3	1	3	1	1	64	3			11		124	17	11	29 3			184	7	19		43
	0	3	7 3	3	1	66	11	3	23	3 7		126	13	7 3 19	7	3		186		3		3
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10		1	Ī	1	1	70		19	7 3			130	100	13	3	7		190	3	11		23
12	3	3	3	3	1	71 72	7	3	11	3		132		3		3		192	17	3	41	3 7
13	3	7	3			74	3		3	7		134	_		3 23	19		194	3	29	3	3
16		3	1	3		75 76		3 7	13	3	N	136		29	3	37		196	37	13	7 3	11
18	3	3 1	3	3	-	1-1	3	3		3		137	3	3 7	19	3		198	7	3	7	3
19	3	7	3 1		-	79. 80		13	3	17		139	3	23	3	-		200	3		3	7 3
21 22		7 3	7	3		81	1		19	3		141	7	3	13	3			43	3 7	1	3
23	3	3 1	3	3	-		3	7 3	3 7	3		143		3	3	3		203	13	19	3 23	3
25 26	3	11	3	7	-	85	23		3	11		145	3	7	31 3 7	13		205			3	
27	1	3		3	1	87	13	3		3 7		147		3		3		207		3	31	3
29	3		31	3	-	89	-	19	3	3		149	3	-3	3	3		209	3	7 3	7	3
31			1		-	91		11	7			151	2	17	37	3 7 11		211	3	11	29	13
33	3	17 3 7	3	7 3	1	92 93	7	3 23				153 154 155 156 157 158	22	3	7 3	3		213		3		3 7 17 3
35	11 3 19 7 3	7	3		-	93 94 95 96 97 98 99	3	2	3	3 7 3 11 23 3		155	3 7	3	3	3		213 214 215 216 217 218	3	3	19 3 11 7 3 13	17
37	19	3.	13	3	1	97	2.	3 7	2	11		157	1	3	19			217	13	37 37 3	7 3	11
39	137	3	1	3	1	99	-	3	3			159	37	3	_	7 3		219	13 7 31 31 3	3	13	11 3 47 7 3
40	1	3 7 3	3 7 19 3			100	7 3	1	19			161	3	3 3 3 3 3 3	3	2	1	221	3	2	3	7 2
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4.4	4 5 1	3 3	3	3		104	3	7 3	19 3 17 3 17 3 17 3	1	3	160	13	3	3	17		223 224 225 226 227 228	2	31	37	13
4	6	1		37 3		100	3	1	1	1 1	3	16	7 3	7 3	3 7	23		227	7 3		3	43
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15	2	1 3	17	23		112	2 10	k		71	1	17	3 :	3	11	3737		232	3	1	13	
15	4	10	3	3 7 3 13		112	1	1	3 3	1 1	3	17	4	1	3 /	, 3	1	230 231 232 233 234 235 236 237 238		13	1	3 7 23 3
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1	Prime Divij	fors. 35
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241 19 41 242 3 7	301 323 7 36 302 3 3 3 3 3 36	22 3 3 19 422 3 41 3
243 11 3 3	303 7 3 3	3 3 3 422 340 2
244 7 31	304 17 11 305 343 3 7 36	4 1 741 424 31 7
245 3 11 3 246 23 3 3	306 3 3 36	6 7 3 10 3 426 317 2
247 7 37	307 37 7 7 7	7 13 427 7 11
248 3 13 3 19 249 47 3 11 3	308 3 3 36 309 11 3 19 3 36	
25041 2313	310 7 29 13 370	
251 3 7 3 11	311 311 3 37	1 3 47 3 421 2 10 2 7
252 3 7 3 253 17 43	312 313 3113 313 313 313 313 373 373	2 3 3 3 432 29 3 3
254 3 3	314 3 7 347 374	4 3 19 3 23 434 3 43 3
255 3 3 3 3 7	315 23 3 7 3 37	5 11 3 13 3 435 19 3 3
250 1 3 1 1 1 7 7	317 319 311 375	7 3 7 3 4 27 3 20
258 29 3 13 3	318 3 3 378	3 7 3 438 3 341 3
259 7 23	319 31 23 7 370	
261 7 3 3	321113 3 3 381	137 3 11 3 44 1 3 7 0
202 43 37 11	322 117 7 382	2 43 7 441 19 43
26410 2 2	323 353 341 383 324 7 3 7 3 384	23 3 3 444 3
20511 7	325 385	717 445 61 7
266 3 3 17 3	326 3 13 3 7 386 327 3 29 3 387	3 353 440 3 341
268 7	328 17 7 19 11 388	11113 448 1707
269 3 3	329 3 37 3 389	3 17 3 7 449 3 3 11
270 37 3 11 3	330 7 3 3 390	247 3 3 450 7 3 3
272 3 7 3	332 3 3 3 392	3 3 452 3 3 7
273 3 7 3	333 3 47 3 393 334 13 377 394	3 3 3 452 3 3 7 3 3 1 3 453 23 3 13 3 7 3 50 3 37 454 19 7
274 1341 331	333 3 47 3 394 334 3 7 3 394 335 3 7 3 395	3.59 337 455 3129 3147
275 3 3 3 1 276 11 3 3 277 17 47 7	335 3 7 3 3 395 336 37 3 1 31 396 337 317 3 3 396	3 59 3 37 455 3 29 3 47 17 3 3 456 3 3 11 29 41 23 457 7 17 23 19
277 17 47 3 7	337 338 317 31 397 398	3 7 3 458 3 3 13
279 3 3	338 317 3 339 3 43 3 399	1 2 3 1 459 1 3 3
279 3 3 3 280 7 53 281 3 29 3 282 7 3 11 3	339 3 43 3 399 340 1941 7 400 341 3 313 401 342 11 3 23 3 402 343 47 7 19 403 344 311 3 404 345 7 3 3 406	400,43 [17]11
281 3 29 3 282 7 3 11 3	340 1941 7 400 341 3 3 13 401 342 11 3 23 3 402 343 47 7 7 19 403 344 3 11 3 404	1 2 1 2 1 1 1 1 1 2 1 2 1 3 3 3 1 1
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286 7 47 19	347 3 23 3 7 407 348 59 3 1 1 3 408	3 3 467 3 3
288 43 3 3 3 13	348 59 3 11 3 408 349 7 13 409	7 3 3 468 31 3 43 3
200 2 2	347 3 23 3 7 407 348 59 3 11 3 408 349 7 13 408 350 3 3 1 3 1 1 410	31 17 7 13 466 59 13 7 467 3 3 43 3 7 3 11 3 7 469 13 7 37 3 11 3 7 470 3 3 17 3 23 3 471 7 3 53 3
29141 3 3	351 3 3 411	3 11 3 7 470 3 3 17 3 23 3 471 7 3 53 3 472 29
493 2 7 5	352 713 353 3 3 3 413	3 23 3 471 7 3 53 3 472 472 3 3 7 3 3 3 3 7
293 3 7 3 294 17 3 7 3 295 13 11		141 311 3 474 1 3 347 1
295 13 11	355 53 11 415	5 7 475 707
296 3 3 297 3 13 3 298 11 19 29 7	356 3 7 3 43 416 357 3 7 3 417 358 17 37 418	5 3 23 3 11 476 3 11 3 19 43 3 3 477 13 3 17 3
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	359 3 359 419	2 3 7 3 3 479 3 3
N. 11 3 17 19 1	IN. 113 7 9 N.	11379 N11379

E 2

36	TABLE XVII.	1
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480 311 3	54011 3 3 60017 3 3	660 7 3 3
481 17 61 482 3 7 3 1 1	541 7 601 71113	661 11 17 13 7
483 3 7 3	1542 3 3 13 1003137 3 13	[663]19] 3] 3]
484 47 29 37 13	544 545 3 7 3 5 3 604 7 23 605 3 3 73	665 3 3
486 331 3	540 43 3 7 3 000 11 3 3	666 3 59 3
487 11 7	548 3 311 608 3 7 3	668 3 41 3
489,67 3 59 3	549 17 3 23 3 009 3 7 3	669 337 3
490 13 7 491 3 17 3 492 7 3 13 3	55c 337 3 7 610 17 31 41 551 337 3 7 611 3 329	670 19 671 3 7 3 67211 3 7 3
	552 3 3 512 3 11 3	672 11 3 7 3 23
	554 3 23 3 31 614 3 311	674 3 11 3 17
495 3 3	555 7 3 3 9 9 5 347 3	675 43 3 29 3
497 3 313	557 3 3 7 617 3 337	677 3 13 3
1498 17 3 3	558 337 3 618 7 3 23 3 559 7 29 11 619 41 11	678 311 3
500 3 3		680 3 311
501 329 3	50 31 341 3 021 3 3	08210
502 2 7 3	593 343 3 923 323 347	683 3 3 7
50471 3 7 3	564 3 3 624 9 3 3 5 625 7 13 11	685 13 7 10
506 301 337	566 3 7 3 626 3 3	686 3 3
507 11 3 3 7	[568] [3] [11] [028] [1] [19]	688 7 7183
509 3 11 3	569 3 341 629 3 7 3	689 3 01 3
510 3 7 3	The least tent to the state of	690 67 3 3
512 347 323	572 359 3 7 632 3 3	692 3 7 313 693 29 3 7 3 694 11 53 695 3 17 3
513 7 3 11 3	573 11 3 7 634 17 11 7	6941153 7 3
511 19 7 512 3 47 3 23 513 7 3 11 3 514 53 37 19 515 3 3 7 516 13 3 3	572 3 59 3 17 632 3 3 3 57 573 11 3 7 635 3 13 7 635 3 13 7 635 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	695 3 17 3
517 731 3	576 7 373 3 636 3 3 3 577 29 23 53 637 23 7	697 19 7
512 347 3 23 513 7 311 3 51453 37 19 515 3 3 7 516 13 3 3 517 7 31 518 371 3 519 29 3 3	571 572 359 317 632 33 633 13 33 634 17 635 33 636 33 637 637 637 637 637	692 3 7 3 13 693 29 3 7 3 694 11 53 695 3 17 3 696 3 3 697 698 3 3 3 699 3 3
12,21-2	578 3 3 3 7 638 3 13 3 3 5 639 7 3 3 3 3 3 5 641 3 11 3 7 641 3 11 3 7 642 3 3 583 7 19 13 643 59 7 41 47	
520 7 11 41 521 3 13 3 17 522 23 3 3 523 3 7 3 524 3 7 3 29 525 59 3 7 3 526 19 23 11 527 3 3 9 528 3 17 3 529 11 57 7	580 7 37 37 640 67 19 43 13 7 641 311 3 7 642 3 3 643 59 7 41 47 644 317 3 645 645 645 645 646 7 23 29 647 3 311 3 588 3 7 3 648 312 3 648 313 3 648 313 3 589 43 71 17 649 43 73 67	700 47 743 701 3 3 702 7 3 3 703 79 13 31 704 3 3 7 705 11 3 3 706 23 7 37 707 3 11 3 708 73 3 19 3 709 741 47 31
522 23 3 3	582 3 3 642 3 3 583 7 1913 643 59 7 41 47 584 3 3 644 3 17 3	703 79 13 31
521 3 13 3 17 522 23 3 3 3 523 3 7 3 524 3 7 3 29 525 59 3 7 3 526 19 23 11 527 3 3 7 528 3 17 3 529 11 67 7	583 7 19 13 643 59 7 41 47 584 3 3 3 645 311 3	704 3 3 7
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527 3 3	587 3 7 3 648 3 13 3 589 43 71 17 649 43 73 67	707 3 11 3
528 529 11 67 7	589 43 71 17 649 43 73 67	709 741 4731
530 3 3 531 47 3 13 3 532 17 773 533 3 3 19	578 3 3 7 638 3 13 4 4 3 17 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 11 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	710 3 3 3 711 3
530 3 3 531 47 3 3 3 532 17 773 533 3 3 9 534 7 3 3	59231 7 652 1161 3	71113 311 3 712 17 713 3 7 3 11 714 37 3 7 3 715 23 17 716 313 367 717 71 3 3 718 43 11 7
533 3 3 19	593 3 17 3 653 3 47 3 13 594 13 3 19 3 654 3 1 3 3 79 7 7 59 656 3 3 3 79 7 7 3 43 3 657 3 3 3 3 595 7 7 3 43 3 3 657 3 3 3 3 595 7 7 3 43 3 3 657 3 3 3 3 3 595 7 7 3 43 3 3 657 3 3 3 3 3 595 7 7 3 43 3 3 657 3 3 3 3 3 3 5 657 3 3 3 3 3 5 657 3 3 3 3 3 5 657 3 3 3 3 3 3 5 657 3 3 3 3 3 3 5 657 3 3 3 3 3 3 5 657 3 3 3 3 3 3 5 657 3 3 3 3 3 3 5 657 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	713 3 7 3 11 714 37 3 7 3 715 23 17 716 3 13 3 67 717 71 3 3 718 43 11 7
534 7 3 3 535 5311 23 536 3 31 3 7 537 41 3 19 3 538 7 17	59511 759 655 79 7	715 23 17
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	597 7 3 43 3 657 3 7 11 13 7 9 659 3 19 3 7 9 11 3 7 9 11 3 7 9	719 3 323 N 1 3 7 9
[N. 11 3 7 9]	10.1131719. 101.1317191	1-1-13/2-9

38	TAB. XVII.	Prime Divisors.	
N. 1 3 7 9 9 960 3 12 3 961 7 59 3 3 964 31 11 965 3 7 3 13 966 3 7 3 13 966 3 7 3 13 966 3 7 3 967 19 17 968 3 23 3 969 11 3 3 3	N. 1 3 7 9 970 89 31 17 7 971 3 11 3 972 3 71 3 973 37 7 974 3 3 975 7 3 11 3 976 43 13 977 3 29 3 7 978 3 7 97 41	N. 1 3 7 9 980 3 3 17 981 3 3 3 982 7 11 31 983 3 984 13 3 43 3 985 59 986 3 7 3 7 3 987 988 41 989 3 13 3 19	N. 1 3 7 9 990 3 3 991 11 23 47 7 992 3 3 19 994 6 7 995 3 37 3 2 996 7 3 997 13 11 1 1 998 3 67 3 999 97 3 13 13 14 15 15 15 15 15 15 15

TAB. XVIII. A List of Prime Numbers.

1			
	10 Thousand.	1 Thousand.	12 Thous.
	Hundred. Hundred. Hundred. Hundred. Hundred. Hundred.	Hundred. Hundred. Hundred. Hundred. Hundred. Hundred. Hundred.	Hundred. Hundres. Hundred.
Total designation of the last	0 - 8 9 9 6 9 31 03 07 03 11 01 27 01 01 09 31 03 09 11 23 03 29 13 07 11 37 09 37 33 43 13 33 29 13 23 47 37 39 39 47 21 53 31 27 29 53 39 61 41 53 31 57 59 31 33 59 49 67 51 59 33 59 67 39 39 61 57 69 59 67 37 63 89 51 53 67 73 79 63 71 43 77 97 57 71 83 79 91 69 73 57 <td< th=""><th>$\begin{array}{c ccccccccccccccccccccccccccccccccccc$</th><th>0 - N 6 + 07 01 03 01 01 11 07 11 23 09 37 09 27 29 13 41 13 39 43 21 43 19 41 47 33 49 43 51 73 37 71 49 53 77 51 73 57 03 79 57 97 61 69 91 73 63 77 79</th></td<>	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 - N 6 + 07 01 03 01 01 11 07 11 23 09 37 09 27 29 13 41 13 39 43 21 43 19 41 47 33 49 43 51 73 37 71 49 53 77 51 73 57 03 79 57 97 61 69 91 73 63 77 79
	93 99 87 99 91	97 97 87 71 97 81 87 87	97 81 87 91 97

12 Thouf.	13 Thousand.	14 Thousand.
03 01 03 09 07 11 11 13 21 23 17 27 19 39 29 19 39 37 43 41 23 41 41 57 53 41 47 47 63 89 53 53 53 53 53 53 53 53 53 53 53 53 53	01 03 17 09 11 13 13 09 07 01 03 09 19 13 17 23 19 11 29 03 07 21 29 27 21 37 27 21 31 07 09 27 41 31 41 53 33 23 41 13 33 47 49 37 51 67 49 29 59 21 37 51 59 39 57 77 69 51 73 31 43 59 67 67 63 91 79 57 77 33 49 63 01 81 69 07 81 50 79 63	Paragraph Para

PROBLEM.

To find all the Prime Divisors of any Number within the Limits of the Table.

I. If the given Number be even, 2 will be one of it's Prime Divisors.
II. If the Digit 5 possesses the Right Hand place of any Number, 5

is one of it's Prime Divifors.

or 9; the Three left Hand Figures of that Number in the Column mark'd N (Tab. 17) and the Unit's place at top of one of the other Columns, will give the least prime Divisor thereof, except Unity.

IV. If no Divisor be thus found (that is, if the place where the Divisor should be, is Vacant) the Number with which the Table

was entered is a Prime.

V. Having found, by any of the preceeding Directions, a Prime Divisor of the given Number, divide thereby, and seek the least Prime Divisor of the Quotient, by which divide as before; proceed in the same manner untill the Quotient arising is a Prime Number; then the Divisors so found, together with the Quotient last obtained, will be all the prime Divisors of the given Number.

EXAMPLE.

Required, the Prime Divisors of 30030?

By Art. 1; 2, is one of it's Divisors; and $\frac{30030}{2} = 15015$.

By Art. 2; 5, is one of the Divisors of 15015, & $\frac{15015}{5} = 3003$. By Art. 3; in page 35; 300 under N, & 3 at Top, give 3; & $\frac{3003}{3} = 1001$.

 $\frac{3}{8}$; in page 34; 100 under N, & 1 at Top, give 7; $\frac{1001}{7} = 143$.

 $\frac{7}{8}$; in page 34; 14 under N, & 3 at Top give 11; $\frac{143}{11} = 13$.

By Art. 4; 13 is a Prime Number.

Therefore 1, 2, 5, 3, 7, 11 & 13, are all the prime Divisors of 30030.

Tab. 18. contains all the Prime Numbers between 10000 and 15000. Thus 10007, 10009, 10037, &c. 10103. 10111, 10133, &c. 11003, 110427, 11047, &c. are Prime Numbers.

No. Sq. Fost. Cube Kost

No So. Root Cube Rous.

N Sa. Root Cub Root

40

The Use of Table XX.

An horizontal Rank of Numbers, is an arithmetical Series, whose Order is denominated by a Number (m) against it in the side Column.

A perpendicular Rank of Numbers, are the Unciae of the Powers of a Binomial, whose Index is expressed by a Number (n) in the upper Line.

And the Combinations of (m) Things in (n) are shewn by the Number common to both Ranks.

Thus, the Combinations of 5 Things in 20 are 15504.

The Use of Table XXI.

The Numbers of the second Column are those Powers of the Number 2, whose Indices are expressed by a Number (m) against them in the first Column; and are also the Elections in (m) Things.

The Numbers of the third Column are the Elections of a Number of Things greater than 1 in (m) Things.

The Use of Table XXII.

An horizontal Rank of Numbers are Powers of a Digit (m) against it in the side Column.

A perpendicular Rank of Numbers are those Powers of the nine Digits whose Index is expressed by a Number (n) in the upper Line.

And the nth Power of m is the Number common to both Ranks.

Thus, the 16th Power of 3 is 43046721.

The Use of Table XXIII.

The Numbers of the middle Column are the Permutations of any Number of Things (m) placed against them in the side Columns; and are also the Continual Product of all the Numbers in the side Column.

Thus, $1\times2\times3\times4\times5\times6\times7\times8=40320$.

-		_	_			_	_	-	-	_	_	_	_				_	_	_		-	_	_	_	_	_	_	_	_	_		_	_
42												"		A	I	3]	-	E		X	X												
	29	28	27	26	25	24	23		22	21	20	19	18	17	10	15	1	10	1 2	12	1	io	9	00	7	6	100	14	دب	12		0	
27			1	27	351	2925	2/330	1100	80730	296010	888030	2220075	4080825	0430205	1303/095	51173838003744210	0000	2008200	200581001	1728286	13037805	8436285	4686825	20075	88030	290010	80730	17550	292	43	27	I	27
28	4 11	1	28	~1	3276	0	90200	0	6	1840	3108105	6906900,2	- 0					2 (0 0	-	0	0	690690010015	3108105	1184040	370740	98280	20475	327	37	20	,	28
29	1	29	406	3054	23751	118755	475020	2000	1560780	4202145	500510015003	0030010	4597290	1095935	7003915	77558700	130/00	7558760	57863015	1805025	4597290	0030010	8	4292145	1560780	475020	118755	23751	3054	406	29	. 1	29
30	30	435	4000	27405	142506	5	2035	3	000	28	105400	54027300	8049322	119759050	14542207	155117520	/anstock.	2000	1075085	8640222	5462730	3004501	715	585292	203580	59377	142506	27405	4060	435	30	-	30
31		449	3146		73628		100012	2000-	2016007		8467231	14112052	20025307	2520150252	30054019	30054019	A (mo. Co.	365182625	206252075	141120525	84672315	5 44352165 6	20160075	7888725	2029575	736281	169911	31405	449	465	31		31
322	1			_	3365856		_	_	_	111	225792840	347373600	471435000	505722720	26.000390	5 50572272010	COCCC4. / T	471435600	247272600	225702840	129024480	64512240	28048800	10518300	3355856	900192	20	35900	4900	496	32	1	32
333		23733				100		-	-	20	UZ	00	1037150320	1100003110	11500001	03715032	- de de	81880020	57316644	35481732	19353672	92561040		-			237330		5450	528	33	1	33
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	Т	A	B. XXIV. S	pecific	Gr	avilies.	4	-
P: - 17 1	-	_						
Fine Gold,		1	English Pebble, -	2.66	6 M	I llinglate,		
into Money -		L	Maid Tone Rubble,					
Ditto only cast, -	18,888	L	Morr Stone, -	2,650	5 L	Dry Mahogony, 1,06		
Quickfilver, -	14,000	C	Rock Chrystal, -	2,650	N	Human Blood, - 1,05		
Fine Mercury, -			Hyacinth,	2,631	M	Amber, 1,040		
Quickfilver of Bra-			Flint Stone, -			Gall, 1,034	- M	I
zil,	13,593	M	Common green			Vinegar of Beer, 1,034	- M	I
Coarfe Mercury, -	13,512	L	Glaft, — —			Canary Wine, 1,033	M	1
Hardest Lead,	11,356	L	Purbeck Stone, -	2,601	L	Brazil Wood, 1,031	M	
Common Lead, -	11,325	C	Vulgar Glais,	2,580	N	Serum of human	1	
German Lead,	11,310	M	Portland Stone, -	2,570	1	Blood,1,030	C	
Cast Lead,	11,200	20	Parian Marble, -			Milk,	C	
Fine Silver,		-	Flint Stone,			Urine, 1,030 Dry Box, 1,030	C	
Stand. Silver ftruck		T	Onix,			Sea Water,	C	
into Money,		1000	Common Stone, _			Winasan of William		ä
Ditto cast, - 3	10,535	-	Irifh Slate,			Spring Water 1 000		
Bismuth, -	9,700		White Pertland for			Camphire,	1 3	
Fine Copper, -	9,000		Carving		L	Dittill a Water, 0 002	3.4	
Copper in Half-	8,915	L	Glauber's Salts, -	2.246	IM	Dees wax,	0	1
pence,			Fresh Sheeps Bones,	2,222	M	inurging wine. I- and		ı
Swedist Copper, -	8,784	M	Heddington Stone	2,204	L	Linfeed Oil, -0,953 Dry Oak, -0,925	N	1
Common Copper,	8,478	L	Sal Gem,	2,142	N	Dry Oak, 0,925	10	1
Caft Brass, - }	8,208	F	Oyfter Shells, -	2,092	M	Trokwood,	1 1.5	Į
	8,000	C	Hatton Stone, -	3,056	L	Oil Olive, 0,913	N	3
Steel,	7,850	-	Sulpher Vive,	2,000	M	Dry English Oak, Spirit of Turpen.	L	1
Spanish Bar Iron,	7,827		Brick,	2,000	M	tine,0,874	1	Ì
Swedi & ditto,	7,818		Cremor Tartari, -			Rectified Spirit of	N	1
Elaitic Steel, —	7,792		British Vitriol, -	1,900	M	Wine,	1	1
Steel neald foft, 3	7,738		Hartshorn, -		M	Beech, 0.854	13.0	-
	7,704		Alabaster,		20071	Maltic, -0,840	34	I
Hardned Steel, 3	7,696		Oxhorn,			Dry Elm,	11	1
Iron, -	7,645	C	Dry Ivory,	1,825	C	Dry Afh, 0,800	10	1
British Pewter, -	7,471	M	Brimftone,	1,800	C	Peruvian Bark0,784	124	I
Tin,	7,320	C	Dantzie Vitriol,-	1.710	N	Yew,0,760	M	1
Native Cinnabar,	7,300	M	Allum, —	1,714	N	Dry Maple, 0,755	C	1
Block or grain Tin.	7,156	L	Borax,	1,714	N	Dry Wainfcott, -0,747 Plumbtree, -0,663	L	1
Caft Iron, —	7,135	L	Barrel Clay, -	1,712	5	Dry yellow Firr, 0,657	M	1
Softest cast Iron, or			Calculus humanus	1,700	C	Cedar,0,613	L	1
Dutch Plates, -	0,900	N	Oyl of Vitriol, —	1,700	DA.	Dry Elm,0,600	M	-
Glass of Antimony, Loadsone,	5,200	M	Ox Bones dry, — Oyl of Tartar. —	1,050	LIVE	Dry white Deal, 0,569	C	Section 4
Lapis Calaminaris,	5,000	M	Bezoar,	1,500	To	Juniper, lo.556	L	-
Hungarian Antimo	3,000	-	Sal Armoniac,	1,452	M	Firr, 0.550	MC	1
ny,	4.700	M	Honey, -	1,450		Saffafras,O.482	M	1
Tutty, -	4.615	M	Gum Arabic,	1,375	N	Cork, 0,240	0	-
Marcafite,	4.580	M	Opium, -	1,363	M	Air, 0,001	N	1
Bobemian Granate,	4.360	M	Coco Shell,	1,340	M		1	-
A Pfeudo Topaz,	4.270	N	Lignum Vitae, -	1,327	M		1	-
Crude Antimony,	4.000	M	Spirit of Nitre, -	1,315	CI			1
Swedish Granate,	3,978	M	Aqua Fortis, —	1,300	U	A 72 110 C 1		1
Blue Slate,	3,500	M	Newcastle Coals, Myrrh,	1,270	10	An English Cube	1	-
A Diamond,	3,400	IN	Pit Coal	1,250	M	Foot of Spring	1	1
Chrystal Glass, -	3,150	T	Pit Coal,	1,240	M	Water weigh	1	1
Plate Glass,	2,942	M	Aloe Wood, —	1.100	20	voirdapoize.		1
Bole Armenic, —	2,727	M	Pitch, —	1.150	C	voir maporizes	1	1
Island Chrystal, -	2,720		Spirit of Salt, -				1	-
(2,704		Crassamentum of					1
Veined Marble, 3	2,700	C	human Blood, -		cl			1
	1	1			1		1	1
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-	46	TAI	3.	XXV.	The	Lengths of	of ci	rcular	Ar	cs.		1
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		,1047198	67	1,1519173	127	2,2165681	7	20362	7	339	78	4 56
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-	17	,2967060	78	1,3439035 1,361 3 568	138	2,4085543	18	49451 5236c	17	824 873	18	14
	19	,3316126	79	1,3788101	139	2,4260076	19	55269	19	921	19	15
	20	,3490659	80		-	2,4434609	- Indiana	58178	20	970	Street, or	
-	21	,3665191		1,4137167				61087		1018		17
-	23	,4014257	83	1,4486233	143	2,4958208	23	66904	23	1115	23	10
	24	,4188790		1,4660766				69813	24	1104	24	19
	25	,4363323 ,4537856		1,5009832				75631	26	1261	26	21
1	27	,4712389	87	1,5184364	147	2,5656339	27	78540			100	
	28	,4886922		1,5358897				81449 84358	20	1357	28	23
	30	,5235988		1,5707963		2,6179938		87266	30	454	30	24
	31	,5410521	91			2,6354471	31	90175	31	1503	31	25
	32	,5585054		1,6057029				93084	32	1551	32	26
	33	,5934119	94	1,6406095	154	2,6878070	34	98902	34	1648	34	27
	35	,6108652	95	1,6580628	155	2,7052603	35	101811	35	1097	35	28
	36	,6283185	97	1,6755161	150	2,7401668	37	107629	37	1794	30	29
	38	,6632251	98	1,7104226	158	2,7576201	38	110538	38	1842	38	31
	39	6081217	99	1,7278759	159	2,7750734	39	110255	39	1891	39	32
	41			1,7627825								
	42	,7330383	102	1,7802358	162	2,8274333	42	122173	42	2036	42	34
	43	,7504916	103	1,7976891	163	2,8448866	43	125082	43	2085	43	35
	44	,7853982	105	1,8151424	165	2,8797932	2.45	130900	44	2182	44	36
	146	,8028515	100	1,8500490	166	2,897246	: 45	133800	40	2230	46	27
	47	,8203047	107	1,8675022	168	2,9140997	47	130717	47	2279	47	38
	49	,8552113	109	1,9024088	169	2,949006	3 49	142535	49	2370	49	40
	50	,8726646	110	1,9198621	170	2,9670590	5,50	145444	50	2424	50	40
	51	,8901179	111	1,9373154	171	2,9845120	51	148353	51	2473	51	41
	153	,9250245	1113	1,9722220	173	3,019410	5153	154171	153	2570	153	142
	154	,9424778	1114	1,9896753	174	3,036872	3,54	157080	154	2018	54	44
	55	,9599311	116	2,0071286	175	3,054326	155	162897	35	2715	55	44
	157	,9948377	1117	2,0420352	177	3,089232	7157	165800	157	2703	157	146
	158	1,0122910	1119	2,0594885	178	3,106686	050	168715	58	2812	58	147
	160	1,0471976	120	2,0769418	180	3,141592	6160	174533	60	2909	60	48
	0.1		10	Arc.	10	Arc.	M		Seil	Irc	T	A.
	-		-		-		-		-	-		-

.

D.M Verl. Sine.

Arra.

13464 7.07

1.017

Diff

D. M. Verf. Sine Diff.

64280

Aren

Diff.

Diff.

18		TAB	XXI	VI Ver	Ged S	ines as	-1	Aven of	cincul	ar Segmen	ut.
	100 mar	Verf. Sine		Area	Diff.		-	Vers. Sine	And in case of Females, Spinster,	Area	-
	_		SHOW THE PERSON NAMED IN	,00.14902		_		7.411810	-		Diff
	15	THE RESERVE AND THE PARTY AND THE		15657	1,53			369688	122	,17.15356	
	30		753	16438	THE PARTY OF THE P	1 92	45	1 1	072	83199	03
	45	375448	935	17245	32		15	12 1		67259	
110	00	387383	12.118		58	74	00	1 1		51410	84
1	15	The state of the s		200	85		45	201710	916	35652	75
	30	1 000			200		30		863	10086	75
17	45	424286	666				15		The second	The state of the s	57
1	15	1 14 20	13.029	21671	2000	1/2	00	076283		,15.88928	48
	STORY.	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	The second second second	-	_		45	034584	THE RESERVE AND ADDRESS OF	73535	39
	30						10000	,6.992942	The state of the s		30
18	45	489435			053		15	951357		43023	21
	15	The second second second			112		00		527	27903	12
	30	1 7 7		27906			45	868362 826953		12873	03
	45	530699	14,115	29049			15	785605	348	83085	4.93
19			296		204	7.1	00		287	68326	84
	15	559110				100000	45	703094		53657	75 66
	30	1 00	655	32662	267		30	661931	163	39078	57
	45		834	33929	300		15	620833	098	24589	48
20	00		15.013	35229	332	70	00	579799	034	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	40
	15	V-3-7777-11-10					45			13.95879	31
	30	1 2 2 2 2	370	37926	ACCES 10		30		903	81658	22
	45						15		836	67526	13
21			A CONTRACTOR OF THE PARTY OF TH	40756		69		416321	769	53484	04
	15	679921	903	42222	501		45	375620		39530	
	30	711904		43723 45258	535 571		30	334988	632	25665	86
22		728161		46829		60	15	294426	562	11888	77 68
1000	15	744595	610			00	45	253934 213514	420	84600	60
	30	761205	785	50078	679	- Indian	-				-
	45			51757	716		30	132890	348		51
23	00		17-137		the state of the s	67	00	092689	201	11.1	42
	15	812088	311	55226	791		45	THE RESERVE OF THE PARTY OF THE	128	1 1 1 7 71	33 24
	30		486	57017	828		30				16
	45		660		867		15	5.972533	39-976	04846	07
24	00	864545	835	60712	905	66	00	932034	899	,11.91859	12.98
	30	882380	181	62617	945		45	892811	823	78959	90
	45	900387		6456 ₂ 66546	984		30		7.43	66147	81
-	-	Conditionable (continuous)	-			-	15	813403	665	53421	72
	00	936922		68570				773817	586	40781	64
	30	955449 974147	871	7 ⁰⁶ 34 7 ² 739	1.05		45	734313	504	28228	55 46
	45	993018	10.042	74885	146		30	694889	424	15760	46
		,1.012060	213	77072	229	64	15	655547	342	03379	38
	15	031273	383	79301	271	104	45	577113	176	,10.91083	29
	30	050656	555	81572	314		30		091	78873 66749	12
	+5	070211	724	81572 83886	356		15	499016	006	54709	04
	00	089935	894	86242	400	63	00	460095	38.921	42755	11 05
1	15	109829	20.003	88642	443		45	421261	834	30885	87
	30	129892	232	91085	487		30	382514	747	19100	78
	+5	150124	400	93572	531		15	343855	6;9	07399	70
28	00	170524	569	95103	576	62	00	305284	571	,09.95783	61
	5	191093	736	98679	621		45	266803	481	84250	53
	15	211829	9 73	0.101300	667		30		391	72802	44
	00	233732 253803	21.071	103967	712	6.	15	190112	300	61437	36
	15	275040		109438	759 805	61	0.00	151904	208	50156	28
	30	296443	569	112243	852		45	075764	116	38958	19
	5	318012	734	115005	899	60	30	037835	024	27843	11
	-	-	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN		- Inches	13	2	Verl. Sine	37.929	16810	03
3	20	Verl. Sinel	Diff	Area.	Diff.	1-1	31	Voct V	Diff. 1	Area	WIF

IT	A	B. XX	VI. Ve	erfed Sinc	s and	A	rea	5 0	fcircular	Stem	ents.	49
V.	M.			Aria	Diff.	_	D.	_	Very. Sine	D ff.	Agas	viff.
30	oc	1.339746		.01.17994	2.947	T	60	00	,5.000000	37. 835	,09.0586:	
1	15	301645	22.063	20941	994		1	45	4.962260	1940	,08.9499	867
1	30	383708		23935		1		30	924616	THE RESERVE	The second secon	785
131	00	405936	554	26978 30070		93	50	15	887069 849619	The second section is		703
r	15	450881	717	33211	190		1000	45	812267	450 352		540
1	30	473598	880	36401	240	-20		30	775014	253	and the state of t	458
	45	496478		39641			-0	15	737861	153	31510	377
132	15	519519 542722	203 364	42930 46271			50	00	700807	054		295
-	30	-		-	391			45	663855	STATE OF THE PERSON NAMED IN	10999	215
1	45	589610		49662 53104				30	590255	851 749	00864	135
33	00			56598			57	00	553610	645	CONTRACTOR OF THE PARTY OF THE	9.975
	15	637138	24.004	60144	598			45	517068	542		894
	30	661142	162	00/11	650			30	480630	438	61126	815
124	45	709624	320 479	107			100	15	444298	332		736
1	15				757			45	371951	120		656
1	130	758738	793	78662				30	335938	013		577 499
-	45	783531	949	82526	918			15	300032		13237	421
35	00		25. 104	86444	973		55	00	264236	796	03895	342
1	30			90417	4.028			45	228548	688	,06.94631	264
	45			94445 98528	083			30	192970		85445	186
36	00	909830	724	,02.02666		-	54	15	157503	467 356		109
1	15	935554		06861	251			45	086904	243	- Chi	8.955
1 -	30		26.031	11112	1 0 0 0 0 1	3		39	051772	132	49471	878
1	45	987462	183					15	016754	018		801
37	15	039980		19784			53		947060	1	Profession Contractor of	725
1	30		637	28685	-	-	-	45		790		649
1	45	093104		33223	595	1.7		30	912386 877827	559		573
38	00	119892	939	37818	654	20	52	00	843385	442	,05.97802	498
1	15	146831	27.087	42472	714	N	1	45	809061	324	89455	247
1	30	173918	237 385	47186	772 832			30	774854	207	81182	272
120	45	201155	305	51958 56790	892	MB.		15	740765	33.969	72984 64860	198
100	15	256074	534 680	61682	952	bi		45	706796	849	56810	
	30	283754	828	66634	5.013	31		30	639218	729	48833	7-977
L	45	311582	974	71647	073			15	605610	729 608	40931	902
40	00	339556	28.119	76720	135		50	00		486	33101	830
	15			81855	196			45	538760	364		757
	30 45				320					240	17060	684
41	00	452904		97630	383		40	15	472402			612
1	15	481602	841	,03.03013	445				406542	868	95041 87645	539 468
	30	510443	983	08458	508		(3)	45	373800	742	87645	306
1.	45	539426 568552	29. 126	The second second	572 636	2	.0	15	341183	617		325
17.	15	597819	408	19538		1	40	00	308694 276332	489 362	73066 65883	
-	30		548	30874				30		234	58770	183
	45	656775	548 688	36638	828			15	244098	105	51728	113
43	00	686463	827	42466	894		47	00	180016	31.977	44755	6.973
1	115	710290	966	48260	058		War.	45	148170	846	44755 37852	
1	30		30. 104	54318	6.024	CX.		30	116454	716	31019	833
44	45	806602	242 379		156	-	16	15	084869	585 453		765
1,	15	836981	515	72589	222		T	45	022095	321		696 627
1	30	867496	650	78811	290				,2.990907	188	04372	559
-	45		786	85101	356			15	959853	054	,03 97881	491
45	00	928932	921	91457	424	1	45	00	928932	30.921	91457	424
A PARTY	-	1					(3				

G

In Tab. 24, Those specific Gravities that are mark'd N, were taken from Sir Isaac Newton's Optics; Those mark'd C, from Cotes's Hydro-statical Lectures; Those mark'd M, from Mussichenbroek's Elements of natural Philosophy; and Those mark'd L were communicated by Mr Charles Labelye, Engineer to the Works of Westminster Bridge.

The Use of Tables 25th and 26th.

Tab. 25th. contains the Lengths of Arcs; and Tab. 26th, the Versed Sines of Arcs, and the Areas of Segments comprehended by those Arcs and their Chords, with their Differences; computed for the Circle whose Radius is Unity.

Put D = an Arc less than a Quadrant in Degrees and Parts, D = an Arc greater than a Quadrant but less than a Semicircle in Degrees and Parts;

The most useful Cases arising from the Consideration of the abovementioned are as follow:

				ledatho but theth librar 172 to letter 172
10	Ca.	Giv.	Reg.	
1	1	D.		90 - D. gives V ; $- S = 1 - V$.
1	2	D'.	S.	D'-90. gives V' ; $-S=1-V'$.
-	3	D`.	Z.	D', gives A (Tab. 25.); and S (Case 2.) Z=-2.
1	4	V.	Z.	V, gives D ; and $2D$, gives $ Z$. Z
1	5	Z.		D , gives Λ ; $ a = r\Lambda$.
1	7	r.D.		D, gives V ; $ v = rV$.
1	8	r.D.	z.	D, gives 2,
1	9	r.a.	D.	r = A; and A gives $- D$.
1	10	r.v.	D.	$\frac{v}{r} = V$; and V gives $ D$.
1	11	r.z.	D.	$\frac{z}{r_r} = Z$; and Z gives — — D.
-	12	r.v.	z.	$\frac{v}{r} = V$; V , gives D ; $2D$ gives Z ; $$ $z = rrZ$.
-	13	r.z.	v.	$\frac{z}{rr} = Z$; Z, gives D; $\frac{1}{2}D$ gives V; $ v = rV$.
	III CO	-	-	

7	$\frac{1}{\pi}$	" 4	477	7	47	
1 3.1415927 2 6.2831853 3 9.4247780 4 12 5663706 5 15.7079633 6 18.8495559 7 21.9911486 8 25 1327412 9 28.2743339 Log. 0.4971499	.6366198 .9549297 1.2732395 1.5915494 1.9098593 2 2281692 2 5464791 2 8647890	3.9269908 4.7123890 5.4977871 6.28318531 7.0685835	.1591549 .2387324 .3183099 .3978874 .4774648 .5570423 .6366198 .7161972	3.8197186 5.0929582 6.3661977 7.6394373 8.9126768 10.1859164 11.459 559	50 205482 62 831853 75,398224 87.964594 100.530965 113.097336	2 3 4 5 6 7 8

2 7	$\frac{\pi}{6}$	$\frac{t}{6\pi\pi}$	$\frac{\pi}{12}$	7 8	$\frac{4\pi}{3}$	
6 2831853 2 12.5663706 3 18 8495559 25 1327412 31.4 59265 37 6991118 743.9822971 3 50.2654824 56 5486678	1.0471976 1.5707963 2.0943951 2.6179939 3.1415927 3.6651914 4.1887902 4.7123890	03377373 05066059 06754746 08443432 .10132118 11820804 .13509491 15198177	.5235988 .7853982 1.0471976 1.3089969 1.5707963 1.8325957 2.0943451 2.3561945	.78 3982 1.1780972 1.5707963 1.9634954 2.3561945 2.7488936 3.1415927 3.5342917	20.9439510 25.1327412 29.3215314 33.5103216 37.6991118	3 4 5 6 6 7 7 8 9 9

In a Circle and Sphere.

Put r = Radius, d = Diameter, c = Circumference, a = Area of the Circle, <math>Z = Superficies of the Sphere, X = Solidity.

Given	r= (10)	d = 1	c =	a =	Z =	_ X =
r.		2 r	r × 2 π	$rr \times \pi$	rr × 4 π	3
d.	‡ d	No.	d× x	dd× #	$dd \times \pi$	$d^3 \times \frac{\pi}{6}$
с.	$\frac{1}{2}c \times \frac{1}{\pi}$	$c \times \frac{1}{\tau}$		$cc \times \frac{1}{4\pi}$	$cc \times \frac{1}{\pi}$	$\varepsilon^1 \times \frac{1}{6\pi\pi}$
a.	$\int_{a} \times \frac{1}{\pi}$	Vax-	√a×4π		4 4 4	$\frac{4}{3}\sqrt{a^3\times\frac{1}{\pi}}$
		T		$\frac{1}{4}Z$	3	$\sqrt{Z^3 \times \frac{1}{4\pi}}$
· X.	$\sqrt{3} X \times \frac{1}{4\pi}$	$\sqrt{6X\times\frac{1}{\pi}}$	3/6 X× π π	$\sqrt[3]{\frac{9X^2}{16}} \times \pi$	$3\sqrt[3]{X^2} \times \frac{4\pi}{3}$	

	-	en the Side		olygon is 1	When Rac	The second secon		
-	N°.	Rad. of Cir-	Raa. of In- ferib. Circ.	Area.	Length of Side.	Rad of In-	Area.	Nº.
Street Street Street	4 5 6 7	0,5773503 0,7071068 0.8506508 1,0000000 1,1523825	0,5000000 0,6881910 0,8660254 1,0382617	1,0000000 1,7204774 2,5980762 3,6339124	1,4142136 1,1755705 1,0000000 0,8677674	0,5000000 0,7071068 0,8090170 0,8660254 0,9009689	2,0000000 2,3776412 2,5980762 2,7364102	4 5 6 7
The state of the state of	10	1,3065630 1,4619022 1,6180340 1,7747329 1,9318516	1,3737387 1,5388418 1,7028437	4,8284271 6,1818242 7,6942088 9,3656404 11,1961524	0,6840403	0,9510565	2,8925437 2,9389263 2,9735250	10

when meRad, of the infer, Cir. is 1	When the Area is 1
No Longeb of Rad. of Cir. Area.	the Side. cum. Circ. Scrib. Circ. Sid.
3 3,4641016 2 0000000 5,1961524 4 2,0000000 1,4142136 4,0000000 5 1,4530851 1,2360680 3,6327128 6 1,1547005 1,1547005 3,4641016 7 0,9631491 1,1099160 3,3710222 8 0,8284271 1,0823919 3,3137084 9 0,7279405 1,0641776 3,2757315 10 0,6498394 1,0514622 3,2491970 111 0,5872521 1,0422172 3,2298913 12 0,5358984 1,0352760 3,2153904	1,5196716 0,8773827 0,4386912 3 1,0000000 0,7071068 0,5000000 4 0,7623870 0,6485251 0,5246678 5 0,6204033 0,6204033 0,5372849 6 0,5245813 0,6045183 0,5446520 7 0,4550899 0,5946034 0,5493420 8 0,4021996 0,5879764 0,5525172 9 0,3605106 0,5833184 0,5547687 10 0,3267617 0,5799148 0,5564242 11 0,2988585 0,5773503 0,5576775 12

TABLE XXIX, Concerning Regular Solids.

Put, S = Side, R = Radius of the Circumscribing Sphere, r = Radius of the inscrib'd Sphere, Z = Superficies, X = Solidity.

And the last two	- A -	Tetrne arun.	Heraedian.	Octorden	Dodecaedron.	7
		-	The second second	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN		Icojaedron.
(R =	0,6123724	0,8660254	0,7071068	1,4012585	0,9510565
115 5 4	1 7=	0,2041241	0,5000000	0,4082483		0,7557613
If S = 1.5	12=	1,7320508	6,0000000		20,6457280	8,6602540
	X=	0,1178511		0,4714045	7,6631188	2,1816951
1	S	1,6329932	-			
1				and the state of t		The second second
It R = 1.4	7-	0,3333333		The second secon		0,7946545
1	X =	4,6188023	8,0000000		10,5146223	20 21 22 2
-	-	0,5132002	1,5396006	1,3333333	2,7851639	2,5361507
1 (s =	4,8989795	2,0000000	2,4494897	0,8980560	1,3231601
116 12	R =	3,0000000	1,7320508	1,7320508	1,2584086	1,2584086
If r=1.3	Z =	41,5692192	24,0000000	20.7846096		15,1621684
1 6	X =	13,8564064	8,0000000			5,0540561
6	5=	0,7598357	0,4082483	The second second second		THE REAL PROPERTY.
1	R = 1	0,4653025	0,3535534	0,5372850	THE RESERVE AND ADDRESS OF THE PARTY OF THE	0,3398080
If Z=1.3				0,3799178	0,3083920	0,3231774
)	X =	0,1551008	0,2041241	0,2193457	0,2450651	0,2568144
		0,0517003	0,0680413	0,0731152	0,0816884	0,0856048
1 (s =	2,0395489	1,0000000	1,2848990	0,5072221	0,7710254
$\left\{ 1 \mid X = 1. \right\}$	R =	1.1547006	0,8660254	0,90806 4	0,7107492	0,7332887
1	,=	0,4163417	0,5000000	0,5245576		0,5827111
1-X-1	Z=1	7,2056240	6,0000000		5,3116140	5,1483486
-	-			3.1	3.3	3,403400

Put S = Side.

R = Radius of the circumfcribing Circle.

r = Radius of the inferib'd Circle.

a = Area of the Polygon.

T = The proper Tabular Number.

R	R = S T; S = R T; S = r T;	r = ST; a = SST. $r = RT; a = RRT.$ $R = rT; a = rrT.$
a	$S = \sqrt{aT}$;	$R = \sqrt{aT}, r = \sqrt{aT}.$

The Use of Table the 29th. Let T= the proper Tabular Number.

r	$ \begin{vmatrix} R = S & T; & r = S \\ S = R & T; & r = R \\ S = r & T : & R = r \end{vmatrix} $	T; Z = RRT; T; Z = rT;	$ \begin{array}{c} X = R R R T \\ X = r r r T \end{array} $
Z	$S = \sqrt{ZT}; R = \sqrt{2}$ $S = \sqrt[3]{XT}; R = \sqrt{2}$	$ZT; r = \sqrt{ZT};$	$X = \sqrt{Z^3 T}$

Use of Table 30. The most necessary Cases of Navigation. CASE I.

Given the Lattitudes and Departure;

Required the Course, Distance and Difference of Longitude,

I. With the Difference of Lattitude and Departure taken together, find the Course among the Degrees, and Distance at the Head of the Columns.

11. With the Co-middle Lattitude among the Degrees and Departure in it's Column, find the Difference of Longitude among the Distances.

CASE II.

Given the Lattitudes and Longitudes of two Places;

Required the Bearings and Distance.

I. With the Co-middle Lattitude among the Degrees and Difference of Longitude among the Distances, find the Departure in its Column.

II. With the Difference of Lattitude and Departure taken together, find the Course among the Degrees and Distance at Top.

CASE III.

Given the Course and Distance sail'd;

Required the Difference of Lattitude and Longitude.

I. With the Course among the Degrees and Distance at the Top of the Columns, find the Difference of Lattitude and Departure in their Columns.

II. With the Co-middle Lattitude among the Degrees and Departure in its Column, find the Difference of Longitude among

the Distances.

154			10.00		TA	BLI	3 XX	XX.	2 = 1	2 1/2	7		1
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Pts	01	Lat.	Dep	Lat ,	Dep.	Lat.	Dep.	Lat.	Dep.	Lat	Dep. 1	D.P	tr-
-	- 1	0.0998	0,0175	99971	0,0340	2,0005	0,0524	3,9994	,0698	1,0002	,0873 8	30	
	2	0,9994	0,0349	1,998	0,0698	2,9982	0,1047	3,99760	,1396	1,9970	,1745 8	18	
0.7	-							3,99520				7.	4
	3	0,9986	0,0523	159973	0,1047	2,9959	0,1570	3,9945	,2593	4,99310	,2617,8		
	4							3,99030					
	5	0,9962	0,037	1,9924	0,1743	2,9886	0,2015	3,98480	,3480	4,98100	3588	5	
0.1								3,98070				7.	2
1								3,97810					
1								3,97020					
-	4000	Transpired agreement	THE RESERVE OF THE PARTY OF THE	The Property of	-	A DESCRIPTION OF THE PARTY.	THE PERSON NAMED IN	Company of the last of the las	-	TOTAL MARKET BY	-	-	-
0.								3,95670				1/	4
11								3,93920					П
	1	5.081	60,190	81.9622	0.3816	2,0440	0,5724	3,92650	.7632	1.0081	0,0540	70	8
1.	1	0.080	80,195	11,9616	0,390	2,9424	0,5853	3,92310	,7804	1,0030	9754	7.	8
11	1	0,978	10,207	91,9563	0,415	2,9344	0,6237	3,91260	,8316	4.8907	1,0396,7	8	
1	1	0,974	40,225	01,9487	0,4499	2,9231	0,6749	3,89750	,8998	4,8718	,1248 7	7	
	12	0,970	30,241	91,9400	0,4838	2,9108	0,7258	3,88120	,9677	4,8515	,2096	6	2
1.	-							3,8801					4
-	-		The Personal Property lies	THE RESERVE AND ADDRESS.	THE RESERVE ! THE PERSON	THE RESIDENCE PROPERTY.	Periodicular affectiveness	3,8637	CONTRACTOR OF THE PERSON NAMED IN	Contraction and Administration of the	THE OWNER OF TAXABLE PARTY.	10.00	-
1		0,951	30,275	61,922	50,551	2,8838	0,8209	3,84501	,1025	4 8003	,3782 7	14	
1.	1	0,950	90,290	31,9130	0,5800	2,8708	0,8709	3,82781	,1011	4,7847	,4514	10.	1
	1	950	3,0,292	41,9120	0,5047	2,8089	0,8771	3,82521	,1095	4,7815	,4019	73	
1	1	80,951	10,500	61,902	0,0100	2,0532	0,9271	3,80421	,2301	4.7553	5451	72	
1	I	90,945	50.226	01.88	10.672	2.8246	1,010	3,7821	2476	4,7077	6011	6	1
1.	1	0,941	70.342	01.870	10,6840	2.8101	1.0261	3,7588	.3681	4.6085	1,7161		4
1	2	0.033	60,358	41,867	0,716	2,8007	1,0751	3,7343	1,4335	1,6670	1,7918	60	
	2	20.027	20,374	61,854	40,749	2,2,7816	1,1238	3,7087	,4984	4,6359	1,8730	68	
2.	1	0,023	90,382	71,847	80,765	4 2,7716	1,1480	3,6955	,5307	4,6194	1,9134	6	
	12	20.020	50,390	7 1,841	00,781	5 2,7615	111722	3.6820	1,5620	4,6025	1,9537	67	- 19
	12	10.012	0,400	71.827	00,812	5 2,7400	1,2202	23.6542	1,6260	4,5077	2,0337	66	
	2	50,900	30,422	61,812	60,845	2 2,7189	1,2679	3,6252	1,6905	4,5315	2,1131	65	
2.	1	0,904	00,427	61,803	00,855	1 2,7120	1,2827	3,6252	1,7102	4,5199	2,1378	5	4
	12	60,898	8,0,438	41,797	60,870	7,2,0964	1,315	3,5952	1,7535	4,4940	2,1919	64	
	2	70,891	0,0,454	01,782	00,908	02,0730	1,3020	3,5640	1,8:00	4,4550	2 2099	03	
1		80,882	9,0,400	1511,795	90,930	912,0438	1,4004	3,5318	1,0779	4,4147	2 2 5 5 7 9	02	1
2.		0,881	60.48	81,703	20.060	62 6230	1.454	3,5277	1,0050	4,4090	2.4240		-
	2	90,074	0.500	7749	01,000	02.5081	1,5000	3,4985	2.0000	4.2301	2,5000	60	
-	-	The second second	Contract of the Contract of th	The second second		the same of the same of		THE PERSON NAMED IN	DESCRIPTION OF THE OWNER.	The second second		-	14
2.	4	0,857	770,51	717	211.020	12.571	1.545	3 3,4309	2,0504	4 2858	2.5752	50	*
1	3	20.84	300,520	001.606	11,050	8 2,541	1,580	3,4287	2,1107	4,2402	2,6406	58	
1	3	20.82	870,54	161,677	31,080	3 2,5160	1,633	93,3547	2,1786	4,1934	2,7232	57	
13.	1	0.83	150,55	501,662	91,111	1 2,494	41,600	7 3,3259	2,2223	1,1573	2,7778	5	-
1	2	10,820	900,55	921,658	11,118	4 2,487	1,677	63,3162	2,2368	4,1452	2,7900	56	
1	10	10.81	020,57	3011,638	21,147	2 2,457	1,720	7 3,2766	2,2042	4,0958	2,8679	55	
1	3	60,80	900,58	781,618	1,175	6 2,427	11,763	413,2361	2,3511	1,0451	2,9389	54	
13	#	0,80	320,59	5711,000	1,191	4 2,409	1,707	1 3,2128	2,3828	4,0100	2,9705		1.4
-								43,1945					15
	3	80,78	800,01	57 1,576	001,231	3 2,364	1,847	03,1520	2,4626	3,9401	3,0783	52	
1	1 3	190,77	71,0,02	931,554	31,258	02,331	41,888	3,1086	2,517	3,0857	3,1400	51	+ 1
13	2	2,77	600,03	791,545	11 28	62 200	11,903	2 3,0920 4 3,0542	2,5370	3,0050	2,2120		1
	1	170,70	470.65	611,000	141.212	12,204	11.068	23,0188	2.624	13,7726	3,2802	40	
1	1	120.74	310.66	911.486	3 32	32,220	12.007	4 2,9726	2,626	1.7157	3,3457	48	
12	3	0.74	10,0,67	161,48	191,342	12,222	2.014	72,9638	2,686	.7048	3,3578	4	1.
1	1	130,73	140,68	20 1,46:	28 1,364	02,194	12,046	02,9254	2,7280	3,6568	3,4100	47	
1	4	40,71	93/2,69	47 1,43	37 1,389	142,158	02,084	02,8774	2,7786	3,5957	13,4733	46	
4	. 4	50,70	710,70	711,414	12 1,414	22,121	3 2,121	3 2,8284	2,828	13,5355	3,5355	45	4.
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1	-	-	-	20 8	The	Trave	rle Ta	ble.		Asi		-	
Cot	ar.	Dift.	6. 1	Dift	7.	Dist		Dift.	0.	3.0	10.	KI	55
Pts	D	Lat.	Dep.	La.		L.	Dep.		Dep.	Lar.	Action of the second	DI	
	I	5,9991	0,1047	0,9989	0,1222	7,9988	0,1396	8,9986	0.1571	0.0085	0.1745	80	
1	2	5,0903	0,2094	3,9957	0,2443	7,9951	0,2792	0,9945	0.2141	0.0010	0.2400	88	
0.4		5.0028	0,2944	0,0010	0 3435	17,9904	0,3925	0,0002	10.4416	0 0880	0 +00+		. 3
1	3	5,9918	0,3 40	6.0820	0,4883	7.0805	0,4107	8,9877	0,4710	9,9863	0,5234	87	1
1	1 4	5,0772	0,5220	0,9734	0,0101	17,9000	10,0072	15.00:8	10.7844	00000	0 8 m 16	80	
0.1		5,0711	0,5881	10,9003	0,0001	17,9015	10,7841	0,9507	0.8822	0.0518	0.0802		
1	16	5,9671	0 0272	10,9017	0,7317	7,9502	0,8302	3,9507	0.0408	0.0452	1.0452	Sal'	1.3
1	7	5,9553	0,7712	5,9478	0,0531	7,9404	0,9750	9,9329	1,0968	9,9255	1,2187	83	1
-		5,9410	0,8804	6,0212	1 0221	7,922	12,1139	19124	1,2520	9,9027	1,3917	52	-1
0.	1	5,9351	0,0386	6.9138	1,0050	7,9134	1,271	8.8802	1,3200	9,8918	1,4674	0.7	-4
1	IC	5.0088	11,0419	0,0037	1,2155	7,0705	1,380	8.8022	1.5628	0.8481	1 2261	20	1
1	11	15,8808	1,1449	0,0714	1,3357	77,8530	1,5200	8,8346	1,7173	0.8162	1.0081	70	i
1.		5,8847	1,170	10,005	1,3050	17,840	3-1,5007	18,8271	1,7552	0.8070	1.0000		7.
1	12	5,8089	1.2475	6.8206	1.574	7,0252	1,0033	8 -6033	2,8712	9,7815	2,0791	78	1
1	14	5,0402	1,4515	6,7021	1,693	7,762	11.035	18,7327	2,0240	9.7437	2,2495	77	1
1.1		5,8202	1,4579	0,790:	1,700	7,700	1,943	18,7300	12,1861	9.700	2.4208	1 1	6.3
	15	5.7956	1,5520	0,701	1,811	7.727.	12,0700	8,6933	3 2,329	19,659	2,5882	75	
1	16	5,7676	1,653	6,728	81,929	7,690	12,205	18,651	2,480	0.6120	2.7562	74	-1
I. 1	4	15,7410	1137417	10,0000	0 2,0320	-17,055	2,322	10,0120	12.0120	O. rfio	2 0028	1	6.1
1	17	5,737	1.8542	6.657	2,101	7,050	2,3390	8,0007	2,031	9,5630	2,9237	73	
1	IO	5.6731	1,0534	6,6180	2,2790	7,564	2.2.604	8.500	7.2.030	9,5100	3,0902	72	1
1.1		5,0493	2,0212	10,590	2,350	7,5324	12,0051	10,4730	13.0320	0.415	2.2000	1	6.3
1	20	15,0302	12 0521	10,5770	14,544	17.517	2,7301	4572	23.070	200,2000	12.7.202	mod	4
1	21	5,0015	1,1502	10,5351	14,5000	7,4000	2,0000	10,4022	2 3,225	10.225	12.5827	60	1
1	22	5,5031	12-2051	6.467	2,678	7.3015	2,990	8.2540	3,371	9,271	3,7461	08	
2.	-										3,9075		6.
1	24	5.4812	2,4404	6,3948	2,847	7,308	3,2530	8,2210	3,660	0,1251	4,0674	66	-
1	25	5,4378	2,5357	0,3442	2,950	7,250	3,3000	18,1500	3,8031	9,0631	4.2262	6=	
2.4	1	5.4220	215653	0,3270	12,9929	7,2310	3,4204	0,1350	3.8480	0.0200	11-2756		5.3
1	26	5,3928	2,0302	6 2270	3.1770	7,1904	3,5070	8,0891	3,945	9,9879	4,3837	61	
1	25	5,3400	2,8168	6,1800	3,286	7,0636	3,755	7.9465	4,0055	8.8200	4,6947	63	
2.1	-	5,2915	2,8284	0,1734	3,299	7,0554	3,7712	7,9373	4,2420	8,8192	4.7140	1	5.4
1	120	5,2477	2,9089	0,1223	3,3937	0,99	3,8789	17,8716	4,3633	18,7462	4.8481	61	2
	30	5,1961	3,0000	0,002	3,5000	0,9282	4,0000	7,7942	4,5000	8,6603	5,0000	60	
2.3		5,1464	3,0846	0,0041	3,5987	0,8018	4,1128	7,7196	4,6269	8,5773	5,1410	5	1
1	31	5,1430	3,0902	5.0262	3,7004	0.7843	4,1203	7,7145	4,0353	8,5717	5,1504	59	1
1	32	5.0320	3,2678	5,8707	3,8125	6,7094	4,3571	7.5480	4,001	8.2867	5,4464	58	1
3.		4.0888	13,3334	5,0203	13,0090	10,000	494440	17,4032	£.0001	0.214:	C. FFFF	1200	;
1	20	4.0742	13,3552	5,0033	13,9144	10,0323	4,4735	17 4012	5.0222	8-2004	to const	-6	
	20	4.0140	13.4415	150/341	14,0150	10,3332	4.4.000	17.3724	5.1000	8-1015	e many		1
1	30	4.8102	2.5742	5,6224	4,1699	6,4257	4,7656	7 2280	5,2901	8.0221	5,8779		
3.4	37	4,7918	3,6109	5,5904	4,2127	6,3891	4,8145	7,1877	5,4162	7.0864	6,0182	F 2 4	3
-	28	14.7281	2 6040	5,5101	4,3000	0 3041	4,0252	7.0021	E cino	7 8801	6 1 -66		
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3.1		14.0281	12.8004	326111	14,4400	0,1041	5,0761	0 0071	E. 2000	2 2401	Same		.1
1	140	4.0002	2.5507	19,3023	14:4995	10,1204	5,1422	O. BOAA	10. 78 mg	2 bline	hann	3 3	1
1	41	4.4580	4.0148	5,2020	4,6830	5,9452	5,3520	6.6881	6,0222	7 5471	6,5606 6,6913	49	1
10 3	_	4.4457	4.0204	1321007	11/004	1394470	3,372	0.0080	D.OAAC	7 4000	h myah		1
	4.2	4.2881	1,0020	5,1105	140/140	130500	5.4500	0.5822	10.1080	7 0	4 Quant		- 4
	4.4	4.2100	4,1070	1334354	1,0020	132/347	5,5573	0.4741	10.2510	7.1004	to outs!	12.0	1
4	45	4,2420	4,2420	4,949/	1,949/	3,0309	3,0500	0,3040	0,3040	7,0711	7,0711	45 4	
Pt	U.	Dep.	Lat.	Dep.	Lat	Dep.	Lat.	Dep	Lat.	Dep.	Lat.	LP	18.
			-					No. of Street, or other	-	-		-	

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17	ppar	Do	ctor	-	200,0	-	ing,	A STATE OF THE PARTY OF	1	Mr	Flore	D	r Brook
	10 27			Sum	2112	Au	tuen	W.	nter	ne	od .		Taylor.
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1	Deg.	MI	7. Se.	MISS	2.36.	MIL	n se	MI	n.Se	Min.	Se.	422	n. Sec.
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	01	27	11.00	25	53	27	30	29	7	26	38	, on	STATE OF
	0.3	25	11		-	1	Satisfy.	1	-			4	2137-01
	1.	23	7	21	48	23	10	24	22	23	22	23	5,32
- 7	1.4	21	20	100m		,			37	-3	10	-	2,2,
	1.4	19		18	51	20	2	21	12	20	17		Total by
	1.3	18	22	223	3	25	- 1		2	100	1		323,000
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	3 2	11	57	11	32	12	15	12	58	11	53		Convillation of
1	4.	10	48	-		11	4	11	43	201000	39		13,98
+1	4.1	9	50	9	29	1000	5	10	41	9	38		
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1	6.1	17	14	-	17.11	,	1	1	116	,	1	-	
-	7.	6	47	6	27	6.	51	7	15	6	25	6	58,93
1	7.1	6	22	-15	9		1 700	30		- 37	TO ST	31	PENERGA
B	8.	6	0	5	42	6	3	6	24	5	37	6	10,14
3	8.1	5	40	19.4	1	TO L	-		THE	1	-		T
6	9.	5	22	5	5	5	25	5	43	5	2	5	31,03
	9.1	5	06	- 100	1	19	30	-	10	E	1651	H. A	3.,-5
	10	4	52	4	36	4	53	5	10	4	33	4	59,03
29	11	4	27	4	11	4	27	4	43	4	6	4	32,38
1	12	4	5	3	51	4	5	4	19		45	4	10,67
	13	3	47	3	33	3	46	3	59		29	3	50,62
	14	3	31	3	18	3	30		42	0.000	13	3	The second secon
	115	3	17	3	4	3	16		28	3	0	3	33,945
	16	_		-			_		-			-	THE RESERVE AND ADDRESS OF THE PARTY NAMED IN
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3	THE REAL PROPERTY.	2	43	2	33	2	42 33	2	51 42	2	29	2	44,922
1	19	2	34	2	24	2	33	2	42	2	21	2	35,737
1	20	2	20	2	17	2	-25	2	33	2	14	2	27,421
	21	2	18	2	9 2	2	17	2	33 25 18	2	7	2	19,854
1	22	2	11	2	2	2		2	18	2	1	2	12,937
-	23	2	5	1	57 51 46	2	4	2	11	1	55 50	2	06,588
	24	1	59	1	51	1	58	2	5	1	50	2	00,733
	25	1	54	1		1	53	2	_ 0	1	45	1	55,319
	26	1	49	1	42	1	48	1	54	1	40	1	50,293
1	27	I	44	I	37 33 30	1	43	1	49	1	36	1	45,615
1	28	1	40	1	33	1	39	1	45	1	36 31 27 23 20	1	41,246
-	29	1	36	1	30	1	35	1	40	1	27	1	37,154
1	30	1	32	1	26	1	35 31 28	1	36	1	23	1	33,311
1	31	1	28			1	28			1	20	1	29,694
1	32	1	25		Topic !	1	24		1	1	17	1	26,283
-	32 33	I	22		50	1	21		-	I	14	1	23,058
1	34	1	10		100	1	18			1	11	1	20,002
1	34 35	1	19		345	1	15		113	1	9	1	17,100
1	26	1			-	-	-			_	-	-	Name and Address of the Owner, where the Owner, which the
-	36		13		1	I	13		102	-	7	1	14,340
1	28	1	8			1	10			I I I	7 5 2	1	11,711
1	38		0	1			01	On a		1	2	1	09,202
				- STOP	1	33	29/12	1				103	

1		RE	FRA	CTI	on by	57
Alp		Sr I	faac New	oton.	A Secret	
ppar.	Doctor		Spring,	-	MrFlam	
			Autum.		Aced.	Taylor.
Deg.	Min. Se.	Min.Se.	Min.Se.	Min.Se.	Min. Se.	Min. Sec.
39	, I 6		1 5		I C	1 06,803
40	1 4		1 3		0 58	1 04,506
41	I 2		I 1		50	1 02,303
42 43	0 58		0 59		54	1 00,188
44	56		57		52	58,155
45	54		55 53		50 48	56,197 54,309
46	52		51	The last	46	52,451
47	50		49		45	50,653
48	48		48		44	48,913
49	47	(-1-B)	46		42	
30	45	FE	44	THE STATE OF	40	45,589
51	44	20	43	63		43,999
52	42		41			42,453
53 54	40		40		1	40,949
55	39 38		38			39,483
55 56	36		37 35	1	34	38,053 36,658
57	35		34			35,296
58	34	-	33	-	-	33,964
-	32	-	32			32,660
59	31	100	30	8000	29	31,383
61	30	PINA.	29			20,121
62	28	To the	28		19999	28,904
63	27		27			27,099
64	26	W.	26			26,515
65	25		24	- 1	(E.E.	25,351
67	24		23			24,206
68	23 22		21			23,078
69	21		20	-		
70	20				19	20,871
71	10	MELE	19		.9	19,790
72	19		17		Pint I	17.667
73	17		16			18,723 17,667 16,624
73 74 75 76 77 78	17 16 15	1	17 16 15 14 13 12		TO ME	15,592
75	15	F	14			14,570
70	003 6	10000	13	10-27	100	13,558
78	201.27		12	and see	2 170	12,554
						11,5584
79 80 81 82	test, page	1	10 98 76 55 4 3	14110	THE REAL PROPERTY.	10,5702
SI	The last	Hat-	9	F17 30	9	9,5886
82	500/200	W. F. L. C. C.	7	16.	ST ILEY	8,0129
83	OLITA:		6		14 11	7,6426 6,6771
83 84 85 86	PAGE TO	4	5			5,7156
85			5	-		4,7577
86	Tree -	2 19 29	4	10 54	The same	4,7577
87 88		1	3	1513		2,8500
			2			2,8500 1,8990
89	- Italia	3 2 3	1 0			0,94923
90	50.50	S House			0	
		Park of the last	I	T		Market .

H



T A B. XXXII.

B R I G G S's

LOGARITHMS

Nº.	Log.	Nº.	Log.	Nº.	Log.	Nº.	Log.	Nº	Log.
0			,3010300	40	,6020600	60	,7781513	80	,9030900
	,0000000		,3222193		,6127839		,7853298		,9084850
	,3010300	9000	3424227		,6232493		,7923917		,9138139
	,4771213		3617278		,6334685		7993405		,9190781
	,6020600		3802112		,6434527		,8061800		,9242793
6	,6989700	26	3979400		,6532125		,8195439		,9294189 ,9344985
	,8450980		4313638		,6720979		,8260748		,9395193
8	,9030900	28	4471580		,6812412		8325089		,9444827
	,9542425		4623980		,6901961		8388491		,9493900
10	,0000000	30	4771213	50	,6989700		8450980	90	9542425
	,0413927		4913617		,7075702		,8512583	91	,9590414
12	,0791812	ACCRECATE OF	5051500	-	,7160033		8573325		,9637878
13	,1139434		5185139		,7242759	73	,8633229		,9684829
	,1461280		5314789		,7323938	74	8692317		,9731279
	,2041200		5563025		,7403627		,8750613 ,8808136	1 2 3 1	,9777236
17	,2304489	37	5682017		7558749		,8864907		,9822712
18	,2552725		5797836		,7634280		8920946	100000	,9912261
19	,2787536		5910646		,7708520		,8976271		,9956352
Nº.	Log.			Nº.	Log.	No.	Log.		Log.

			Briggs	's I	Logarith	ms.			59
Nº.	Log.	10.	Log.	Nº.	Log.	Nº	Log.	Nº.	Log.
100	,0000000	160	,2041200	220	3424227	280	4471580	340	5314780
TOI	,0043214	161	,2068259	221	,3443923	281	,4487063	341	5327544
102	,0086002	162	,2095150	222	2482040	282	,4502491	342	,5340261
103	,0170333	164	2148438	224	,3502480	284	,4533183	344	5552941 5265584
105	,0211893	165	,2174830	225	,3521825	285	,4548449	345	5378tot
106	,0253059	166	,2201081	220	,3541084	280	,4503000	346	15390761
107	,0293838	167	,2227165	227	,3500259	287	4578819	347	,5403295
100	,0334238	160	2278867	220	3508355	280	4608078	340	15428254
	,0413927								
111	,0453230	171	2320061	231	,3636120	291	,4638930	351	,5453071
112	,0492180	172	,2355284	232	,3654880	292	,4653829	352	,5465427
113	,0530784	173	,2380461	233	,3673559	293	,4668676	353	,5477747
114	,0569049	174	,2405492	225	2710670	205	4608220	354	,5490033
116	,0644580	176	2455127	236	3729120	296	4712917	356	5514500
117	,0081859	177	,2479733	237	,3747483	297	4727504	357	,5526682
1118	,0718820	178	,2504200	238	,3765770	298	,4742163	358	,5538830
	,0755470								
120	,0791812	181	,2552725	240	3830112	300	4771213	360	,5503025
122	,0863598	182	2600714	242	3838154	302	,4800060	362	,5587086
123	,0899051	183	,2624511	243	,3856063	303	,4814426	363	,5599066
124	,0934217	184	,2648178	244	,3873898	304	,4828736	364	,5611014
125	,0969100	185	,2071717	245	,3891661	305	4842998	365	5022929
120	,1003705	187	2718416	247	3926070	307	4871284	367	,5616661
128	,1072100	188	2741578	248	,3944517	308	,4885507	368	,5658478
129	,1105897	189	,2764618	249	,3961993	309	,4899585	369	,5670264
130	,1139434 ,1172713	190	,2787536	250	,3979400	310	,4913617	370	,5682017
131	,1172713	191	,2810334	251	3996737	311	,4927604	371	,5693739
132	,1205739	102	2855572	252	,4014005	312	4941540	372	5705429
134	,1271048	194	2878017	254	,4048337	314	,4969296	374	,5728716
130	,1303338	195	,2900346	255	,4065402	315	,4983106	375	1.5740313
130	1335389	196	,2922561	250	,4082400	310	.4996871	376	,5751878
137	3,1398 79 1	197	2066652	258	4116107	218	5024271	377	5703414
130	,1430148	199	2988531	259	,4132998	319	5037907	370	,5786302
140	,1461280	200	3010300	260	4140732	320	,5051500	380	5797826
141	0,1461280 1,1492191 2,1522883 3,1553360	201	,3031961	261	4166405	321	,5065050	381	,5809250
142	1,1522883	202	,3053514	262	,4183013	322	,5078559	382	5820634
143	,1583625	203	3074900	264	4199557	324	,5092025	383	5842210
114	,1613680	205	3117530	265	4232450	325	,5118834	385	5854607
146	,1613686 ,1643529 ,1673173	206	,3138672	266	,4248816	326	,5132176	386	,5865873
147	,1673173	207	,3159703	267	,4265113	327	-5145478	387	,5877110
144	,1702017	1200	1,3100033	200	,4201340	340	55150730	300	,5000317
	1731863								
150	,1760913	211	3242825	271	4320602	331	5108280	390	5921768
1152	1,1010430	212	1,3203359	14/2	,4345080	332	,5211381	392	,5932001
1 20 00 0	I tRabot	270	1 nagamak	MMA	1 sababat	000		364	eneanah
154	1875207	214	,3304138	274	,4377506	334	,5237465	394	5954962
135	1031246	215	3324385	276	4393327	335	5250448	395	25905971
157	,1958997	217	3364502	277	14424708	337	5276200	390	,5987905
158	,1986571	218	,338456	278	34440448	338	,5289167	398	,5998831
159	,1875207 ,1903317 ,1931246 ,1958997 ,1986571 ,2013971	219	,3404441	279	,4456042	339	,5301997	399	,6009729
Nº.	Log.	N°.	Log.	Nº.	Log.	IVo	Log	No	Log.
				-			Mary State of the last	-71	The state of the s

*	60		TA	BL	EXX	X	I.		
No	Log.	Nº4	Log.	Nº.	Log.	Nº.	Log.	Nº.	Log.
400	6020600	460	6627578	520,7	160033	580	,7634280	640	8061800
401	6031444	461	6637000	521,7	1168377	581	,7641761	641	8068580
402	,6042261	462	,6646420	522,7	176705	582	,7649230	642	8075350
403	,6053050	463	,6655810	523,7	1185017	583	,7050085	043	8082110
4.04	,6063814	1464	665180	524,7	193313	584	,7004128	644	8088859
495	,0074550	405	,6674530	525 7	201593	286	7678076	646	8102225
400	6005200	167	,6693169	527	218106	587	7686281	647	8100043
1408	610660	168	.6702450	528 5	7226230	1588	7602772	648	8115750
400	611723	1469	6711728	529,7	7234557	589	,7701153	649	8122447
1110	.6127830	1470	6720079	530,	7242750	500	7708520	650	8129134
411	6138418	8 471	,6730209	531,7	7250945	591	.7715875	651	,8135810
1412	614807	2 472	,6739420	53267	7259116	592	,7723217	652	,8142476
413	,615950	473	,6748611	533	7267272	593	7730547	653	,8149132
414	,617000	3 474	,6757783	534	7275413	594	,7737804	054	8155777
415	,018048	475	6776070	3356	7203538	1595	77752460	655	8162413
410	620126	1470	6785184	537	7200743	507	7750743	657	,8169038 ,8175654
1418	0.021170	31470	60794279	115301	730702	11590	57707012	1050	,0102259
AIC	622214	0479	,6803355	539	7315888	599	,7774268	659	,8188854
1420	622210	2 480	6812412	2540	732393	8600	.7781512	660	,8195439
1421	1.624282	1481	,0821451	15416	733197	3001	57700749	1001	,0202015
1423	625212	5 462	1,0830470	542	733999	3002	6779590	1002	,0200500
142	626210	11483	1.6839471	1543	734799	5 602	.780317	1663	,8215135
42	1,627365	9 484	,6848454	1544	735598	9604	,7810360	664	,8221681
42	,628388	9485	606646	7545	730390	5000	,7817554	1005	8228216
420	,629409	0480	687520	3540	737192	2600	782188	1662	,8234742 ,8241258
42	030427	9407	688410	8548	738780	5.60	783003	6668	8247765
142	0 622457	2 480	,689308	0549	739572	3 600	784617	669	,8247765 ,8254261
1.0	d 600,60	- 400	600106	ilerol.	740362	7610	1.785320	8670	,8260748
140	1 62117	2401	1,001081	5 5 5 1 1	741151	ODI	1,780041	2 571	1,0207225
140	a harisa	mid O	shootops.	115521	741030	TIGI:	21.700751	41072	1504/3043
43	3,63648	949	,692846	9553	742725	161	787460	5 673	,8280151
43	4,637480	7 49	4,693726	9 554	743509	861.	4,788168	4674	.8286599
110	- 628.81	20 40	el boabos	21555	.744202	OIDI	51.700075	11074	150243030
143	6,639486	55 49	6,095481	7 550	745004	261	700385	7070	8299467
143	7,64048	14 49	8 602220	4337	746634	261	8.700088	5 673	,830588
143	0,04147	45 49	0.608100	5550	747411	861	0.701600	6670	8318698
43	,04240	45 17	0 608020	0 -60	748188	060	702201	7 68	8325080
14	11 61112	86150	11.0000827	7 503	.740002	902	11,703001	0000	150331471
12	10 6	20150	2 700702	71202	1740730	302	21.702700	4105	26033/044
	in hihin	2-150	2,701500	oleba	1750500	4102	31,794400	0 000	35034420
1.	11/61-0	20150	41.702420	CICOA	.751270	11102	41,705134	octo.	11,0350501
4.6	1 = 6 1 8 a h	an FD	#1.702201	415000	1752040	4402	51.705000	DIDO	1,0 3 3 0000
100	. W Gunna	10100	DETOA1 50	121200	17520IU	4/02	01.700574	21001	11401010164
100	in beans	m # 1 7 57	TI TO FOO?	OUTDO	175350	1102	71.747207	5100	,836956; 8,837588.
4	48,05127	62 50	706713	8 = 60	755113	362	0.708650	6 68	838219
4	19,05224	2000	277-0717	- 3-9	75587	10/60	0.700340	5 600	838849
	w u fa m . a m	FOR HE BERT T	11 200 3420	201571	6740046	/ 4 IU 2	11.000020	ALUU.	1100万分中/0
1000	and hadra	O 2 1 # Y	OF MODOWE	101072	1. 1 4 / 4614	1002	21.000/11/	TIVU	てきった つってい
	unt hutian	Q at a T	21710115	* 41C72	1. / 5 0 1 5 6	LUID 2	21,001404	1 100	411-4-133
		THY	AL TERRIBA	+ 1 C 7 4	1.75 OUL	UII 0-2	11.002000	3 % T L D L D	40041514
4.5	56,65896	48 51	6,712649	7 576	70042	503	0,803457	109	842600 7,843232 8,842855
145	57,65991	6251	7-713499	5 577	76107	863	8 804820	12/00	8,843855
	m to the first term to the	ALC: NO PERSON NAMED IN	20 4 1 4 2 7 7 6	120 1 2 7 6	NA / WILLIAM		OLUGICA	27100	Children to A district
24	10/66 0	-	0	WAL PROPERTY	してわったっ	30160	OLSOFFOR	noton	01.044477
45	66181 Cog.	27 51	9 .71516; Log.	74 579	0,02070	03	9,805500 Log.	999	900444//

	1		Brigg	s's	Logarith	ims	AT		6	1
Nº.	Log.	Nº.	Log.	Nº.	Log.	Nº.	Log.	No	Log	
700	8450980	760	,8808136	820	,9138139	880	9444827	940	9731279	
701	,8457180	761	,8813847	821	9143432	881	9449759	941	9735896	ion
702	,8463371	763	.8825245	823	9153998	882	0450607	942	29740509	101
1704	,8475727	764	,8830934	824	,9159272	884	,9464523	944	9749720	
705	,8481891	705	8842288	825	9164539	885	,9469433	945	9754318	
700	,8494194	767	,8847954	827	9175055	887	19474337	944	69763500	
1708	.8500333	768	,8853012	828	,9180303	888	9484130	948	9768083	
709	,8506462	709	,8859203	829	9185545	889	,9489018	949	9772662	101
710	,8512583 ,8518696	770	8870544	821	,9190781	801	9493900	950	9777230	-
712	8524800	772	,8876173	832	,9201233	892	,9503649	952	,9786369	
712	1.8530805	773	,8881795	1833	,9200450	893	,9508515	953	,9790929	
714	,8536982 ,8543060	774	8802017	825	,9211001 ,021686s	805	19513375	954	0800024	1
716	8540130	776	,8898617	836	1,9222063	896	,9523080	956	9804579	
717	8555192	777	,8904210	837	19227255	897	,9527924	957	,9809119	1
718	,8561244	1778	8015276	838	69232440	800	9532703	958	0818186	-
710	8573325	780	8020046	840	0242702	000	054242	959	0822712	1
721	1.8570353	781	1,8920510	841	1,9247960	100	954724	961	1,9827234	
723	2 8585272	2782	1,8932000	5 642	,9253121	902	955200	962	,9831751	
72	,8591383 ,8597386	783	8042161	843	9258270	903	1955087	963	084077	
72	,8603380	78	,8948696	845	,9268567	905	956648	96	9845273	3
720	6.8600266	5780	,8954220	1846	9273704	1906	957128	2 966	9849771	II.
72	,861534	178	8959747	847	.9278834	907	957007	3 96	085875	
172	8,862131	780	8970770	840	9289077	900	958563	9 96	0,9863238	3
72	8633220	799	,8976271	850	9294180	910	959041	4 979	,986771	7
73	1,863917	4 79	1,898170	851	9299296	911	,959518	4 97	1,987219	2
73	3,8651040	179	8002725	852	,9304396	912	959994	8 97	088112	31
73	1.865606	179	4,899820	5854	0314570	91.	1,960946	2 97	9885590	5
73	4,865696 5,866287	3 79	,900367	185	,9319661	915	,961421	197	,9890040	5
73	6.866877	8179	0,900913	11850	932473	910	0,901895	51979	9,989449	9
73	7,867467 8,868056	179	8,902002	985	8.033487	91	8,062842	797	8,990338	9
173	9,868644	4179	9,902546	8859	9,933993	1919	9,903315	5 979	9,990782	7
74	0.860231	7/80	0,903090	0 860	934498	5 920	0,963787	8 98	991226	I
74	1,869818	2 80	1,903032	5 86	1,935003	292	1,964259	008	1,99,1609	
174	2,870403 3,870988	8 80	3,904715	5 86	2,935010	92	3,965201	798	31:092552	5
74	4.871572	0 80	41,905250	086	1,930513	192	41,965672	0 98	41,992995	1
\$74	5,872156	2100	51,905795	986	51,937010	192	5,900141	798	51,093436	2
174	6,872738	6180	7,900333	5186	038010	102	967079	708	74004315	2
74	8,873901	680	8,907411	4 86	8,938519	792	8,967548	098	6,094756	9
74	9,874481	8 80	9,907948	5 86	9,939019	592	9,968015	798	91,995190	3
75	0,875061	3 81	0,908485	087	939519	3 93	968482	999	0,995635	2
75	1,875639	881	2,909556	087	2,940516	5 93	2,960415	999	2,990511	71
175	2,876705	CSI	3,910090	5 87	3,941014	293	3,969881	6109	3,996949	2
75	4,877371	3 81	4,910024	4 87	4,941511	493	4,970346	909	45997340	4
75	5,877947 6,878521	88	6,911600	187	6,042504	193	5,970011	800	6,008250	3
75	7,879095	981	7,912222	1 87	7,942999	6 93	75971739	16 99	7 993695	2
79	8,879669	281	8,912753	3 87	8,943494	5 93	8,972201	28 99	8,999130	251
	9,880241									
17	o. Log	N	Log	I's	Log.	1 N	FOE.	1.0	12.4	-4

62		-	ТА	BL	EX	XXI	1.			
No	0	1 1	2	3 1	4	5	6	7	8	9
100		04341	8677	12000	17337	21661	25980	30295	34605	38912
101	10214	17512	20001	50004F	00300	04000	00937	13210	1/4/0	01/42
102	06	DOGERA	OACOO	087508	02000	07230	11474	15704	10021	24154
	,01.28372	THE COST	ラさいファ	02043	07005	41104	44317	44407	0.500	4//50
104		1. GOAN	COLET	24284	20400	132525	120020	40750	44057	14.0000
106		CHIEF A	DT 245	DC2221	004.10	734.90	77572	01044	104/13	1047771
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109	,04.13927	10240	21816	25755	20601	32622	27551	41476	45308	40315
111		TOTAL A 18	DIOAO	040021	000 CZ	72740	70042	00532	04410	100501
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113	0= 00=0	121626	28404	42200	40121	40050	53703	57005	01423	105237
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121	6 08	107157	70712	742051	77014	81301	104405	00440	gry04	195519
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125	,10.03705	72573	10594	14024	17471	20005	24227	27766	31103	34616
125	-8-2-	MIACOL	44871	40204	51004	55102	50507	01909	05300	00705
128		Trans	78880	822071	92020	80031	02410	95705	00150	02520
129	11.05807	09202	12025	15905	19343	22098	20050	29400	32747	30092
130	39434	42773	46110	49444	52770	50105	59432	02750	00077	09390
131	· marmac	76027	12215	11 5 5 0 01	10000	22150	25425	20700	131Q01	135250
133	28-16	41781	45042	40301	51550	54813	158005	01314	04501	107000
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135	,13.03338	38581	09707	12978	10187	19393	22597	25799	60861	64034
136	2000	70375	73541	76705	79867	83027	86184	89339	92492	95643
137	08201	01027	00080	08222	11301	14498	17022	20705	123895	27022
139	,14.30148	33271	36392	39511	42028	45742	48054	151904	155072	150177
140	61280	64381	67480	70577	73671	76763	79853	32941	86027	89110
141	92191	95270	28006	22040	25100	07504	110033	14240	17282	50322
142	15.2200	56396	59430	62462	65492	68510	71544	74568	77580	80608
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145	,16.1368	0110074	19666	22050	25044	128630	21014	13459	137575	540553
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247	44517	46268	48018	49767	51516	5326	55011	56758	58504	77663
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252	96737	15728	17451	19173	20894	22614	24333	26052	44016	29488
253	31205	32921	34037	30352	30070	1-68-5	8 - 8 - 8	60270	61994	63698
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260	49733	51404	53073	54742	77056	74717	759744	78037	79696	81355
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267	65113	82068	84588	86207	87825	8944	91060	92677	94293	79727
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271	29693	31295	32097	34490	50090	15766	55250	56851	5844	160035
272	61626	63217	64807	66396	67985	69573	71161	72748	74334	75920
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275										
1277	24798	20305	27932	29499	16600	18251	10811	51370	52928	54485
278	40448	57508	43571	60700	62264	53818	65372	66925	68477	70029
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288	93925	95433	90940	98440	199953	01458	02903	04468	05072	OTABEL
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290	38930	40422	41914	43405	44805	46386	32956	10264	55944	37437
292	53829	55316	56802	58288	59774	61259	47875	4227	5711	7194
293	83473	84950	86427	87903	89378	90853	77561	79039	50518	11996
295	98220	99692	01164	02634	04105	05575	92327	8513	9982	1450
290	27564	20027	20488	31040	22410	24870	2622012	222882	10247	0000
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	.40.13617	15018	16418	17818	19217	20616	22015 2	24122	4810	hann
311	27004	29000	30390	31791	33180	34581	350743	73683	8761	0154
313	55443	50031	50210	59004	00990	02375	498905	51456	652015	7010
314	60206	70070	72002	73444	74825	76206	775877	806-18	02428	
315	90871	90245	99019	00992	02305	03737	913709	04810	78520	0222
317	,50.10593	11902	13332	14701	10000	17437	188052	01722	1530 2	2005
318	37907	39268	40629	41989	43349	44709	324583 460684	74264	5183 3	0142
320	51500	52857	54212	55560	56025	58280	co62=6	anno/	22116	2600
321	78550	79907	81255	82603	83050	85207	731607	45117	58607	7210
323	92025	93379	94724	90057	97400	987431	000850	14270	27080	4100
324	151.05450	00790	00130	00400	100001	12147	268442	482211	bibolt	7.504
326	22170	23500	34040	20171	275021	288221	10thall	14014	28201	4 7 4 10
327 328	45478 58738	60062	61386	62709	50707	52113	534395	47645	60895	7414
329	71959	73279	74590	75917	77230	78554	79872	11898	32507 8	3823
330	85139	86455	87771	89086	90400	91715	93028	14342	56559	6968
331	1.52.11281	12000	13000	15303	10010	17010	19222	20528	218222	18010
333	24442	25740	27050	28353	29050	30058	32260 45259	22562	24862 2	6164
334	50448	51744	53040	154330	155031	50025	C8226	50512	508001	521001
336	03393	04005	105977	107209	100500	1000051	7114-	724311	72721	75010
337	89107	90452	191730	93020	194304	195587	95870	18152	99434	00716
339	53.01997	03278	04550	05039	27118	08398	09077	10955	12234	13512
No.	0	1	2	1 3		5	1 6	7	8	9

X	66		TA	BL	EX	XXI	I.	-		
Vo.	0	1	2	3	4	5	6	7	8	9
340	53-14789	16066	1734	18619	19896	21171	22446	23721	24996	26270
341	27544	28817	30090	31363	32635	33907	35179	30450	37721	38991
342	40261	41531	42800	14009	45338	40000	47874	49141	50408	51075
343	52941	54207	55473	56738 69370	20621	71802	72152	74412	75672	76022
344	-	70450	80708	81966	82222	84481	85727	86004	88250	80506
345	00761	02016	03271	94525	05770	07032	98286	99538	00791	02012
347	.54.03205	04546	05707	07048	08298	09548	10798	12047	13290	14544
348	15702	17040	18288	19535	20781	22028	23274	24519	25705	27010
349	A COLOR	29498	30742	31986	33229	34472	35714	36956	38198	39439
350	40680	41921	43161	44401	45641	46880	48119	49358	50596	51834
351	53071	54308	55545	56781	58018	59253	60489	61724	62958	6419
352	65427	66660	57894	69126	70359	71591	72823	74055	75286	76517
353	77747	78977	80207	81436	82005	83894	85123	80351	87578	88800
354	,55.02284	91259	92400	93712	94937	08206	9/307	10820	12050	12280
355	14500	15720	16020	18158	10377	20505	21812	23021	24248	2546
357	25682	27800	20115	30330	31545	32760	33975	35180	36403	3761
358	28820	40042	11256	42468	43680	44892	40103	47314	48524	4973
359	50944	52154	53363	54572	55781	56989	58197	59404	00012	61818
360	630251	64221	55437	66643	67848	69053	70257	71461	72665	73860
361	75072	76275	77477	78680	79881	81083	82284	83485	84686	85886
362	87086	88285	80484	00683	91882	93080	94278	95470	90073	97870
363	99066	00262	01458	02654	03849	05044	00239	07433	08027	09821
364	22929	12207	3399	14592	15784	10975	20062	19350	20540	21739
365	34811	24118	25300	28260	20555	10740	11025	12100	44202	1517
367	46661	17844	10027	50200	51302	52573	3755	54936	56117	57208
68	46661 58478	59658	0838	62017	63196	64375	55553	66731	67909	69087
69	70264	71440	72617	73793	74969	76144	77320	78495	79669	80843
370	82017	831018	34364	85537	86710	37882	39054	90226	91397	92568
71	93739	14010	6080	97249	98419	99588	00757	01926	03094	04262
72	57.05420	06597	7764	089301	10097	11263	12429	13594	14759	15924
73	17088	18252	9416	20580	21743	22906	4009	25231	20393	27555
74	40313	29877	1038	32198	33358	160000	5078	18412	37990	39154
75	40313	11471	4188	55242	6406	7650	8802	50056	61100	62261
76	51878 63414 74918 86392	545656	5717	56868.	68019	9170	70320	71470	72620	73760
78	74918	76067	7215	78363	79511	80659	31806	82953	84100	85246
79	86392	37538	38683	89828	90973	21186	3262	94406	95550	9669
180	97836	8070	01210	0126310	02405	3547	4688	5829	06969	08110
,81,	58.00250	10380	1520	12668	13807	14945	6084	7222	18359	19497
382	20534	21770	22907	24043	25179	20314	7450	28585	29719	30854
383	31988	33122	34255	35388	7821	18064	0000	51222	52251	42181
384	43312	14443	6862	57990	0117	00244	1370	62406	62622	6474
386	65873	66008	8123	69247	70371	71495	72618	73742	74865	7508
387	77110	78232	79353	80475	81590	52717	03030	84958	80078	87198
388	88317	89436	90555	91674	92792	93910	95028	96145	97263	98379
389				02844	MARKET STREET, Total Contract of the local C	THE OWNER OF TAXABLE PARTY.			ASSESSMENT OF THE PARTY NAMED IN	and the second
390	,59.10646	11760	12873	13980	15098	16210	17322	18434	19546	20657
391	21768	22878	23988	25098	26208	27318	28427	29536	30044	31755
392	32861	33968	35076	36183	37290	38397	39503	40009	41715	42820
393	43926	45030	40135	47239	50260	60470	61571	62671	62757	53800
394	54902	67070	68160	58268 69268	70167	71465	72562	73661	74758	7.8.
395 396	76072	78018	70145	80241	81236	82432	83527	84622	85717	8681
397	87005	88900	20002	91186	92279	93371	24464	95556	96648	97730
2081	08821	00022	21013	02103	03103	04283	25373	00402	07551	08640
122	,60.09729	10817	11005	12993	14081	15168	16255	17341	8428	10514
3991			The second second	1000				The second second	The second second	7 7 7

		!	Brig	gs's I	Logar	ithms.			80	61
Nº.	0	1	2	3_	4	_5	6	7	8	19
400	,60.20600 31444 42261 53050	21686	22771	23856	24941	26025	27109	28193	29277	30361
401	31444	32527	33609	34692	35774	36855	37937	39018	40099	41180
1021	42201	43341	44421	26282	40580	47059	48738	49816	50895	51973
404	62814	64880	65062	67037	68111	69185	70250	71222	72405	02739
105	74550	75022	70004	77700	78837	70000	80070	82050	82120	RALOT
106	85260	80330	87200	88468	89537	90005	01674	02742	02800	01844
407	95944	97011	98078	99144	00210	01270	02342	93407	04472	05537
	,61.06602	18705	10256	09794	21428	11921	12984	14040	15109	16171
109						22539				
110	27839 38418	20090	40521	41587	12612	42608	34189	35247	30304	37301
111	48972	50026	51080	52133	53187	54240	55202	56345	57207	58440
113	59501	00552	01603	62654	03705	04755	55805	56855	57905	68054
414	70003	71052	72101	73149	74197	75245	6293	77340	78387	79434
415	80481	81527	825731	83019	84005	85710	60755	37800	38845	89889
116	,62.01361	91977	93021	04484	95107	06565	7193	18645	99277	00319
118	11763	12802	13840	14879	15017	16955	7002	10030	2006-	21104
119	22140	23177	24213	25249	26284	27320	8355	29390	30424	31450
120	32493									
121	42821	43852	44884	45915	40915	479762	10000	00361	1066	52005
122	53125	54154	55182	502111	57230	58207 4	0205	03221	01250	62275
123	63404	04430	05457	76770	07509	28-34	9500	0505	1010	72634
124	73659 83889	84011	85033	86054	37075	88006	19016	1037	12055	02807
126	94096	95215	95134	97153	98172	991900	0209	1226	2244	03262
127	63.04270	05296	06312	07329	08345	09351	0377	13931	2408	13422
128	14438	15452	16467	17481	18495	19508	20522	21535 2	2548	2356cl
129	24573	25585	20597	27009	20020	29032	30043	31054	32004	33674
130	34685 44773	35094	30704	37713	38723	39732	0740	1749	2757	13765
131	54837	55842	56848	57852	58857	0861	0865	1860	2820	3832
132	64879	55882	66884	67887	68880	69891	0803	1804	2805	23807
134	74897	75898	76898	77898	78898	79898	80897	18968	2895	33804

	H AND THE	1972	TIT	1110		E. S. S.	108 19		20000		
INº.	0	1	2	3	4	5	16	17	8	9	Dif
435	,638.4893	5891	6889	7887	8884	9882	0879	1876	2872	3869	998
436	,639.4865	5861	6857	7852	8847	9842	0837	1832	2826	3820	995
437	,640.4814	5808	6802	7795	8788	9781	0773	765	2758	3749	993
438	,641.4741	5733	6724	7715	8705	9696	0686	1676	2666	36;6	991
439	,642 4645	5034	0023	7012	1008	9589	0577	1505	2552	3540	989
440	,643.4527	5514	5500	7407	0473	9459	0445	1431	2410	3401	980
441	,644.4386	5300	6187	7339	8151	9307	0291	1274	2257	3240	904
1442	,646.4037	5018	1008	6077	7057	8026	0015	2804	1872	2851	080
444	,647-3830	4808	3786	6763	7741	8718	0602	06711	1648	2624	978
E meaning	,648.3600	_	_			-	Committee and the	-	managed in the same	Contract of the last	Michigan III
1446	,649.3349	4322	5206	6260	7242	8215	0187	0160	1122	2104	072
447	,650.3075	404	5018	5989	6960	7930	8901	9871	0841	1811	971
448	,651.2780	3749	4719	5687	6656	7624	8593	9561	0528	1496	969
449	,652.2463	3431	4397	5364	2331	7297	8263	9229	0195	1160	966
450	,653-2125	3090	4055	5019	5984	6948	7912	8876	9839	0802	964
451	1,654-1765	2728	3091	4653	2010	0578	7539	8501	9462	0423	962
452	,655 1384	2345	3500	4200	5220	0180	7145	8105	9004	0023	900
	,656.0982										
-	,657.0159	-	and the same of	_	and the second of	-	-	-	-	Contractoring 1	and the same of
455	,658.0114	1008	2023	2977	3930	4884	5837	0790	7743	8696	954
456	9040	00001	1553	2505	3450	4400	3.9	0310	7201	8212	952
1457	,659 9162	0602	0002	1400	2902	3911	4000	2009	6750	7700	950
450	,661 8127	0073	0010	0064	1010	2875	1800	1745	5600	6624	94/
1459 No	0	1	2	-			6	7/43	8		243
100	1 0	The same	*	3	4)	U	7	0	0	Later.

	68		T A	B	L	E	XX	IIX				
	Nº.	10	1 1	2	3	4 1	5	6	7	8	9	Dif
		,662.7578						3239	4182			
	461	,663.7009	79518	893	9835	0776	1717	2658	3599	4539	5480	941
	462	,664.6420	6748	299	9239	0170	1117	1424	2995	3934	4872	939
-	464	,666.5180	61167	051	7987	8922	0857	0792	1727	2661	3505	93/
	465	,667.4530	54636	397	7331	8264	9197	0130	1002	1995	2927	933
	466	,668.3859	47915	723	6654	7585	8516	9447	0378	1308	2239	931
	467	,669.3169	4099 5	028	5958	6887	7816	8745	9674	0002	1530	929
	408	,670.2459 ,671.1728	2654	314	1506	5121	7090	7281	8206	9070	0002	927
		,672.0979										
	471	,673.0209	1131 2	052	2074	2806	4817	5728	6650	7579	8500	923
	472	9420	03401	260	2179	3099	4018	4937	5856	6775	7693	919
	473	,674 8611	95290	447	1365	2283	3200	4117	5034	5951	6867	917
	474	675.7783	8700 9	615	0531	1447	2302	3277	4192	5107	0022	915
	475	,676.6936	5082	704	8806	0592	0620	1540	2452	2362	4272	913
	477	.678.5184	60947	004	7914	8824	9734	0643	1552	2461	3370	910
	478	,670.4270	51876	006	7004	7912	8819	9727	0034	1541	2448	908
	479	,680 3355	4202 5	168	6074	6980	7886	8792	9697	0002	1507	906
	480	,681.2412	33174	222	5120	6030	6934	7838	8741	9645	0548	904
	481	,682.1451	23543	256	4159	5001	5963	0805	7766	8668	9509	902
	483	,683.0470	03701	272	2168	2066	306:	1862	5761	6650	7556	808
	484	,684.8454	93510	248	1145	2041	2938	3834	4730	5626	6522	896
	485	,685.7417	83139	208	0103	0998	1892	2787	3681	4575	5469	895
	486	686 6363	72568	150	9043	9936	0828	1721	2613	3506	4398	893
	487	,687 5290	5088	073	7904	7757	9740	0037	1528	1212	3300	880
	480	,688,4198	3977	970	5752	6640	7527	8414	0301	0188	1074	887
	409	,690,1961	12847	722	1610	5505	6200	7275	8161	0246	0030	385
	490	691.0815	16992	584	3468	4352	5235	6119	7002	7885	8768	884
		nher	IOC 2AIT	1 2 60	2200	3100	4002	4044	5020	U707	7500	1882
	1000	600 8160	Joseph	221	LIII	1001	2872	2752	4021	5511	0200	880
	494	,093 7209	60205	927	8682	0705	0427	1212	3419	2005	2041	877
	495	,693,7269 ,694.6052 ,695.4817	56926	:68	7443	8318	2103	0067	0042	1816	2690	875
	497	,696.3564	4438 5	311	6185	7058	7931	8804	9676	0549	1421	873
	498	,697.2293	31654	037	4909	5780	6652	7523	8394	9264	0135	872
	499	,698 1009	18702	746	3016	4485	5355	0224	7093	7903	8831	870
	500	9700	05691	437	2305	3173	4041	4908	5776	0643	7510	868
	501	,699.8377	102440	TITE	0077	1042	2700	3575	AAAI	5307	01/2	800
	1001	.701.5680	054317	400	8200	9132	9995	0057	1720	2502	3444	003
	Iro.	702.4200	51070	028	00000	7751	8012	9472	0333	1193	2054	801
	1500	.702.2014	137744	023	5493	0352	7212	8071	8030	9700	0047	800
	1506	-704-1505	23033	221	4079	4937	5794	0052	7509	0300	9223	858
	507	705.0080	94920	792	1201	2055	2010	3764	4617	5471	6325	854
	508	,705.7178	80318	884	9737	0589	1442	2294	3146	3998	4850	852
	1000	702 5702	165537	100	8256	0107	9957	0808	1650	2500	3350	851
		708 1200	15050ici	now	0758	7007	0450	10205	0154	1003	1051	040
		700 4700	2354014	2000	C244	1000	0020	7700	0023	9400	0327	047
	513	,710.1174	1202012	200	3713	4559	5404	0250	7090	7941	0700	040
	514	711 8077	89150	750%	11000	1444	2287	3120	3971	4813	5055	843
		7326407	17334101	1800	0211	0002	0702	1544	23051	1265	40051	0411
		717 1005	15745100	1 1 C 1	7425	8204	0104	QQ4.31	37021	1020	24.50	330
	0	711 2208	4130146	3.77:415	312	00.00	7400	0325	0102	0000	03271	0301
	519	,715:1074	2510 3:	47	103	5019	5050	0091	1527	0303	9190	030
-	Nº.	0	1	2	3 1	4	5	6	7	8	9	21/



I			Brig	gs's	Log	arith	ms.			71	85
Nº.	-	1	2	3	4	5	6	7	8	-	Dif.
	,806,1800	2478	3157	3835	4513	5191	5869	6547	7225	7903	678
641	,807.5350	9258	9935	7270	8000	1907	2644	3320	3997	4074	677
643	,808.2110	2785	3460	4130	4811	5486	6160	6835	7510	8184	675
644	8859	9533	0207	0881	1555	2229	2903	3577	4250	4024	1674
645	,809-5597	6270	6944	7617	8290	8962	9635	0308	0980	1653	673
647	,810 2325	2997	0285	1056	1727	2208	3068	7029	7700	5372	672
	,811.5750	6420	7090	7760	8430	9100	9769	0439	1108	1778	670
649	,812.2447	3116	3785	4454	5123	5792	6460	7129	7797	8465	669
650	9134	9802	0470	1138	1805	2473	3141	3808	4475	5143	668
651	,813.5810	6477	7144	7811	8478	9144	9811	0477	1144	1810	667
653	814 2476						3120				
	,815.5777	6441	7105	7769	8433	9097	9760	0423	1087	1750	664
655	,816.2413	3076	3739	4402	5064	5727	6389	7052	7714	8376	663
656	9038	9700	0362	1024	1686	2347	3009	3070	4331	4993	662
657	817.5654	2010	3570	4220	4808	5558	6212	6877	7526	8705	650
659	,818 2259 8854	9513	0172	0831	1480	2148	2806	3465	4123	4781	658
660	819 5439	6007	6755	7413	8071	8728	9386	0043	0700	1258	658
661	,820.2015	2672	3328	3985	4642	5298	5955	6611	7268	7924	657
662		9236	9892	0548	1203	1859	2514	3170	3825	4480	656
664	,821.5135	5790	2080	2642	7755	4050	5603	6257	6010	1027	055
665	8216	8860	9522	0175	0828	1481	2133	2786	3438	4000	653
666	,823.4742	5394	6046	6698	7350	8002	8653	9305	9956	0607	652
667	,824.1258	1900	2500	3211	3862	4513	5103	5814	6464	7114	6511
668	7765	1010	9005	6208	6857	7506	8154	8802	2903	3012	640
	,826 0748										
671	7225	7872	8519	9166	9813	0460	1107	1753	2400	3046	647
672	,827 3693	4339	4985	5631	6277	6923	7509	8214	8860	9505	646
673	,828.0151	0796	1441	2086	2731	3376	4021	4665	5310	5955	6451
674	820 2028	7243	1221	4067	5611	6254	6806	7520	8182	2394	644
676	,829 3038 9467 ,830 5887 ,831 2297	0100	0752	1304	2036	2678	3320	3962	4604	5245	642
1677	,830 5887	6528	7169	2811	8452	9093	9734	0375	1016	1656	641
678	,831 2297	2937	3558	4218	4858	5499	6139	6778	7418	8058	640
079	0090	9337	9911	0010	1255	1095	-334	31/3	3012	4450	039
681	,832 5089 ,833 1471	5728	2746	7005	7043	1650	5206	5022	6570	7207	622
682	7844	8480	9117	9754	0390	1027	1003	2299	2935	3571	636
683	,834-4207	4843	5479	0114	6750	7385	8021	8050	9291	0020	635
684	,835.0561	1100	1831	2465	3100	3735	4309	5003	5038	0272	0351
686	6906 ,836.3241 9567	3874	4507	5140	5772	6400	7038	7670	8303	8025	622
687	9567	0199	0832	1463	2095	2727	3359	3990	4622	5253	632
088	,037.5004	0510	7147	7778	8400	9039	9070	0301	0931	1502	0311
089	,838.2192	2822	3453	4083	4713	5343	5973	0002	7232	7861	030
690	8491 ,839.4780	9120	9750	0379	1008	1037	8550	2895	3523	4152	629
602	,840.1061	1688	2316	2042	2571	4108	4825	170	5070	6706	627
603	7332	7050	8586	9212	2828	0465	1001	1717	2343	2960	626
694	,841.3595 9848	4220	4846	5472	6097	6723	7348	7973	8598	9223	625
695	9848	0473	1098	1722	2347	2971	3596	1220	1844	5468	624
607	,842.6092 ,843.2328	2051	3574	1107	1810	5442	6065	682	7310	7032	623
600	8554	0176	9798	0420	1042	1664	2280	2907	3529	1150	022
699	,844.4772	5393	6014	6635	7256	7877	8498	9119	9739	0360	621
Nº.	0	1	2	3	4	5	6	7	8		Dif.
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7	7,		Т	A F	RT.	E X	XX	11		-		-
-	72 Nº.1		-	71.1					1 - 1	8		Diff
п	-	0	1		3	4	5	6	7		9	
	700	,845.0980	7800	8410	2841	0658	4001	0806	1515	2134	2752	610
		,846.3371										
١	703	9553	0171	0789	1406	2024	2641	3258	3876	4493	5110	618
1	704	,847.5727	6343	6960	7577	8193	8810	9426	0043	6817	1275	617
	706	,848.1891									3580	
	707	,849.4194	4808	5423	6037	6651	7264	7878	8492	9106	9719	614
1	708	,850.0333	0946	1559	2172	2786	3399	4011	4624	5237	5850	613
1	709	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN			_	THE REAL PROPERTY.	Contractor of the last of the	_	-	_	1972	
	710	,851.2583 8606	3195	3807	4418	5030	5041	2252	0803	7474	4190	611
	712	,852.4800	5410	6020	6629	7239	7849	8458	9068	9677	0286	610
ı	713	,853 0895	1504	2113	2722	3331	3940	4548	5157	5765	6374	600
	714	6982	7590	8198	8807	9414	60022	0630	1238	1845	2453	608
	715	,854-3060	0737	0342	0050	1556	2162	2768	3374	3980	4586	606
	717	,855.5192	5797	6403	7008	7614	8219	8824	9429	0035	0640	605
	718	,856.1244	1849	2454	3059	3663	4268	4872	5476	6081	6685	604
	719										2722	
	721	857.3325	3920	4531	5134	1761	2362	2065	7545	4160	4770	603
	722	,858.5372	15973	6575	7176	7777	8379	8980	9581	0181	.0782	601
	723	,859.1383	1984	2584	3185	3785	4385	4986	5586	6186	6786	600
	724	,860.3380	7985	8585	9185	9784	6274	6072	1583	8170	8768	600
	726	9366	9964	0562	1160	1758	2356	2954	3552	4149	4747	599
	727	,861.5344	15941	6539	7136	7733	8330	8927	9524	0121	0717	597
	728	7275	1910	2507	3103	3699	4296	4892	5488	6084	6680	596
	73	9176	10768	0262	0056	1550	2143	2737	7391	3924	1517	595
	73:	2,864 511	1570	6297	16890	7483	8076	,8669	9262	9855	0447	1593
	172	2.805.1040	2 162	12225	2817	13400	4001	4503	CIRC	577	7 6200	Venal
	73	6 877 7,867.467	755	1055	1646	9327	5827	6417	7008	7508	2282	591
	73	6 877	8 936	89958	0548	1138	1728	2317	2907	3496	4086	590
	73	7,867.467	5 526	15853	644	7031	7620	8209	8798	9387	9975	589
	173	8,000.050.	4 115	21740	2329	12917	13505	4093	4081	15200	15057	1588
	73	0,869.231									1730	
	74	1 818	2 876	9354	9949	0526	1111	1697	2283	2868	3454	586
	74	818	9 462	5210	579	6380	6969	7549	8134	8719	9304	585
	174	3 988 4,871.572	8 047	3 1057	104	12220	2810	3394	3978	450:	2 5140	584
	74	5,872 156	3 214	52728	3311	3894	4470	5050	5641	622	1.6800	582
	74	6 738	8 7970	08552	0134	19716	020	0880	1462	204	3 262	582
	74	7,873.320	6 378	74369	4959	5531	0112	2,6693	7274	785	843	581
	74	9,874.481	8 530	85078	655	7713	7771	8206	8875	045	1 002	580
		0,875 061										
	175	1 639	9,697	87556	813	4 8712	2929	0,9868	0446	102	3 160	1 578
	75	2,876.217	8 275	63333	1391	1 448	8 506	5 5642	6210	679	6737	3 577
	75	3 4,877 371	3 428	0486	544	1601	7650	2716	1985	821	0 880	576
	175	047	0 004	50620	OII	5 1770	0/234	5 2010	240	1406	0'464	2 575
	75	1,878 521	8 579	20307	1094	1751	5 308	9866	3 923	180	1 038	5 574
	75	1,879 095	91153	2 2 1 00	200	01325	3382	04400	1407	3554	0011	9 573
	75	880'241	8 290	03562	413	4 170	527	8 5850	0642	600	3 756	4 572
	No	880.241	1	2	1 3	1-4	15	1 6	7	8	9	IDif.
	-		- 100000	00000			THE CO.	No. of Contract of	-	-	1 9	

		+,	Br	iggs's	Lo	garit	hms.				73
No		1	2	3	4	5	6	7	8	1	Dif
760	,880.8136	8707	9279	9850	0421	0992	1563	2134	2705	3276	571
	,881.3847	4417	4988	5558	6129	0099	7209	7840	8410	1626	570
762	,882.5245	2815	6284	6053	7522	8000	8650	3537	0707	0265	560
703	,883.0934	1502	2070	2639	3207	3775	4343	4911	5479	6047	568
265	6614	7182	7750	8317	8885	9452	0010	0580	1154	1721	507
766	,884.2288	2855	3421	3988	4555	5122	5688	6255	6821	7387	567
767	7954	3520	9080	9052	0218	6420	1350	1915	2481	3047	500
	,885.3612	0828	4743	0057	1522	2086	2651	3215	3770	4342	564
769	,886.4907	E471	6025	6500	7162	7776	8200	8854	0417	0080	:64
770	,887.0544	1107	1670	2233	2796	3359	3022	4485	5048	5610	563
777	6172	0730	7298	7800	8423	8085	0547	0100	0071	1233	5021
773	,888.1795	2357	2918	3480	4042	4603	5165	5726	6287	6848	561
	7410	7071	8532	0002	0052	0214	0775	1220	1890	2457	201
	,889.3017	35 7	0726	9206	0855	5010	1074	2533	7499	2651	550
776	,890.4210	4760	5328	5887	6445	7004	7562	8121	8679	9238	559
778	9795	0354	0912	1470	2028	2500	3144	3702	4259	4017	350
779	1891-5375	5932	6489	7047	7604	8161	8718	9275	9832	0389	557
	,892.0946	1593	2059	2616	3173	1729	4285	4842	5398	5954	556
781	6510	7000	7622	8178	8734	9290	9846	0401	6500	1512	550
	,893.2068	8172	8777	0281	0826	0200	5390	1498	2052	2602	554
783	.894-3161	3715	4268	4822	5376	5929	6483	7037	7590	8143	554
785	8697	9250	9803	0350	0909	1402	2015	2568	3120	3073	5531
786	,895.4225	4778	5330	5883	6435	6987	7539	8092	8644	9195	552
787	9747	0299	0851	1403	1954	2500	3057	3608	4100	4711	552
788	,896 5262	1320	1871	2421	7400	2521	4071	1621	5171	5721	550
-								0117			
790	,898.1765	2314	2863	3412	2060	4500	5058	\$606	6:55	6703	540
702	7252	7800	8348	8897	0445	19993	10541	1000	1030	2104	540
793	,899.2732	3279	3827	4375	4922	15469	6017	6564	7111	7658	547
201	8205	0752	0200	10840	0302	10039	1480	2032	2570	3125	15471
795	,900 3671	0676	4704	0767	1212	1858	0948	2948	2402	1028	545
796	,901.4583	5128	5673	6218	6762	7307	7851	8306	8940	9485	544
798	,002.0029	0573	1117	1001	2205	2749	3293	3837	4381	4924	544
799		6011	6555	7098	7641	8185	872	9271	9814	0357	543
800	.002.0000	1443	1985	2528	3071	3613	4156	4698	524	5783	543
801	6325	6867	7409	7951	493	9035	9577	0119	0561	1202	542
	904.1744	7606	8227	8778	3909	0850	4992	5533	1480	12020	540
803	,905.2560	3101	3641	4181	4721	5260	5800	6340	6880	7410	540
80;	7959	8498	9038	9577	0116	0655	1195	1734	2273	2812	539
806	,006.3350	3889	4428	4967	5505	6044	6582	7121	7659	8197	539
807	8735	9273	9812	0350	6-6	1425	1963	2501	3038	3576	538
	,907.4114	1002	3100	1005	1623	2 60	1/337	3241	2778	10940	1336
809	,908.4850										
811	,909.0209	0744	1270	1815	2350	288	3420	3055	4400	502	535
812	5560	609	6630	7165	7699	8234	1876	9303	9837	0371	1534
813	,910.0909	1440	1974	2508	3042	3576	4100	4643	5177	5710	534
814	6244	6778	7311	7844	8378	8911	944	19977	0510	104	3 533
	,911-1576	2100	2042	8408	370	4240	477	40626	583	168	9 3 3 3
816	,912.222	2752	3284	3815	434	5 487	8 540	0 5040	647	1 700	2531
818	7534	3064	3595	9126	9650	5018	7 071	7 1.24	8 177	8 230	9530
819	,913 2830	1360	3899	4430	496	5 49	0601	96549	707	9 760	9 530
No.	0	1	2	3	4	1 5		1. 7.	8	9	11/
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74		7	r A	В	L E	X	XXI	I.			
Nº.	0 1	1	2 1	3	-		61	-		-	Dif.
820	913 8139	3668	2108	3727	0257	0786	3151	844	2373	2903	529
821	014 2422	2061	4489	5018	5547	6076	00047	133	7661	8190	529
822	,915.3998	9246	9775	0303	6100	1359	1887 2	601	8218	8745	527
1824	0272	0700	0320	0853	1300	1007	243312	900	3407	14013	5 271
825	-016 4520	5000	55021	0118	0045	7171	709710	223	0749	194/3	520
1826	nann	12226	0052	1278	1003	24201	295413	4 0	4005	14730	1520
827	,917.5055	5580	0105	0030	7155	7000	2440	73	1407	5021	524
829	,918.0303	6060	6503	7117	7640	8164	8687	211	9734	0258	524
	010.0781	1204	1827	2250	2873	2206	39194	442	4965	5488	523
1821	6010	0522	7055	7578	8100	8023	914519	007	0100	12711	15221
832	020.1222	1755	2277	2700	2221	2042	430414	000	9407	15929	15221
833	,921.1661	6971	7493	8014	8535	9050	9577	204	c824	6345	521
1800	6860	172X5	7005	8425	0045	0405	QQO4;0	24041	1024	1 545	12-00
836	naa acha	12582	2102	2021	4140	40 50	5 1 7 9 1	OOO	0217	10/30	15 1 41
18.27	7955	7772	0202	2211	0320	Q040	03077	1005	1404	11444	15
838	,923 2440	12053	2177	2000	ACT 2	2021	0724	COU	0504	1/102	17101
830	924 2793	37	2800	9172	1800	F277	5804	110	6027	7444	517
841	924 2793	8476	8002	4344	0025	0541	1057	573	2080	2605	516
842	1025 2121	12627	4152	1668	5184	10000	02150	730	7245	17701	1510
PG	Rank	18mol	10200	0821	0220	10851	1200	1000	2201	12411	1515
844	,926.3424	3939	4453	4968	5482	5997	1650	7025	7535	2100	514
84	927 3704	9081	9595	5242	5757	6270	1650	7206	7808	8321	513
150 44	-1 8824	0247	10850	0272	20005	1307	1.400	2422	ES 39	1377	1000
84	0 000 0000	4477	4082	C 405	0007	10219	17020	7542	0054	Hoyon	15 4 21
1841	007	10588	0100	1001	1123	11034	2145	2050	2:01	1341	1200
85	,929 4180	4700	5211	5722	1226	1845	2357	7704 2866	3276	3880	510
85		Sunnh	10410	15021	0424	10044	174530	7003	047	21000	1500
10 -	0100	10000	MOZOZ		711 6 20	12021	1-144	4044	13.300	C Laboratory C	1704
100											
85	931.457	0100	0077	6250	6767	7274	7781	3215 8288	879	0301	507
(C)	- ava		10072	11 11 12 12 1	011026	1 4 4 12 1	The Control	~ ~ ~ ~	10000		10000
85	00-	- FARE	VE XXE	6201	10805	7402	17000	2110	10020	1444	1500
180	002	2 0437	.0043	144	953	12459	11-7-4	5409	1371	TTY	1200
86	0,934 498	5 5489	5994	6499	7004	7509	2057	8518	406	1952	1505
86	0,934 498	2 0530	66080	658	17085	7501	8095	8508	910	1960	5 503
86	2,036,010	8 0611	11114	161	2120	262	3126	3629	413	2 463	5 503
86	3,936.010 4 513	7 5640	6143	664	5 7148	7650	8152	8655	915	7 905	9502
86	5,937.016	1 000	618	668	7 2100	1268	8187	8688	018	0'060	0 501
86	517	9 5000	2 1 10	2 160	2210	260	5 3195	3696	419	6469	7 501
86	517 938 019 519	7 569	8619	8 669	8 719	769	8 8198	8698	919	8 969	8 500
86	OLD DED DID	KIODO	7 110	71100	71210	1 Killy	W10 - 43	1200	MIT A S	サイファ	フィエフフ
0		1060	2610	1660	01718	01768	88187	1808	1018	4900	31400
10.	,940.018	2 008	2616	91107	7 217	7 765	4 8152	865	0914	7964	5 498
8		- Inna	OTTA	POLIT (3.7)	C 2 1 7	212112	C14 4 4 L	ルムリン	4 14 4 4	CO SEC. N	11441
8	74 75,942.008 76 504	31 057	7,107	3 156	9 206	5 256	2 3058	355	3 404	9.454	5 490
8											
8	THE RESERVE OF THE PERSON NAMED IN	/		1157 4 7	00000	21741	2017 12 1 4			201436	2 3 102 12 6
18	70 988	89038	3 087	7 137	1 186	235	0 203	334	0 302	10.433	3 47
N	c. 0	1	1 2	1 3	1 4	1 5	6	1. 7	18	19	Dif
4		-				THE RES	-				

	The last		Bri	ggs's	Lo	garit	hms.				75
No	, 0	1 1	1 2	1 3	4	5	6	17	18	9	Dif
	,944.4827	5320	-		6800	7294	7787		8773	_	493
881	9759	0252	0745	1238	1730	2223	2716	3208	3701	4193	493
882	,945 4686	5178	5671	6163	6655	7147	7039	8131	8623	9115	492
883	9607	0099	0591	1082	1574	2000	2557	3049	3540	4031	492
	,946.4523	5014	5505	5990	1205	1886	2376	7900	0451	1842	491
885	9433	4827	5217	5807	6207	6787	7277	7767	8257	8747	490
887	0236	9726	0215	0705	1194	1684	2173	2662	3151	3641	480
888	.018.4130	4619	5108	5597	6085	0574	7003	7552	8040	8529	480
880	9018	9506	9995	0483	0971	1400	1948	2430	2924	3412	488
800	,949.3900 8777	4388	4876	5364	5852	6339	6827	7315	7802	8290	488
891	8777	9264	9752	0239	0726	1213	1701	2188	2675	3162	487
	,950.3649	4135	4022	5109	5590	0082	0509	7955	7542	0028	487
893	951-3375	2861	9407	9973	0459	CR02	1432	6774	7260	27745	480
		8716	0201	0686	0171	0656	1141	1626	2111	2505	485
895 806	052 2080	13505	4040	4534	5018	5502	5987	0472	6956	744C	4851
80-	7024	8400	8803	9377	9801	0345	0020	1312	1790	2200	484
898	053 2763	13247	3731	4214	4097	2101	5004	0147	0031	7114	484
Son	7507	8080	8503	0040	9529	0012	0494	0977	1400	11943	483
900	7248	2908	3390	3873	4355	4837	5319	5802	0284	0700	482
901	7248	7730	8212	8694	9170	9057	4052	5424	5016	6207	482
	,955 2065										
903	proper appears	THE	253 4 5	4 7 4 7	12000	4000	14 100	14040	14420		44.25(3)
A 12 4	d haxb	CICLOSIA COLORIA	TO A A C	-CAR	0405	0000	134 3 244	14944	10464	MUU UN	44.50
900	0.057 1282	1701	2241	2720	3199	3070	4157	4030	15115	15594	4470
Ina-	d form	10000	7020	con	7000	0400	1004	19423	19902	10200	1470
90	3,958 0858 5639	1337	1815	2293	2771	13249	8505	8082	4003	10027	478
900	5039	0117	0594	7072	13+9	2300	300	0902	9435	9937	4/0
	,959.0414	0891	6127	1845	7000	7567	8043	8520	8006	14/0/	477
911	0018	2000	logor	11000	1852	2220	280:	12281	12756	14232	1476
91	1,060 4708	12182	15059	16135	0010	7000	7501	18030	8512	18987	470
O.T.	0.402	10022	10412	0885	1202	11037	12212	2707	12202	113730	475
91	,961.4211	4686	5100	5635	0109	0503	7050	753	8000	8481	474
910	962 3693	9429	19903	0377	0051	6061	6524	7001	7481	705	474
91	8425	8000	0373	0846	0310	0792	1264	1737	2210	268	473
OI	963.3155	3628	4100	4573	5045	5517	5990	6462	6934	740	472
020	7878	18350	8822	0204	9766	0238	0710	1181	165	2125	472
92	1.004.2500	12000	32 C 20	LION	4402	14953	35425	5090	1030	10030	147I
02	7300	17780	8251	8722	9193	19004	0135	0005	1070	1540	471
	2,065,2017	2488	2058	2428	3899	14300	14039	5300	15780	10250	470
92	5,966.1417	188-	2256	2836	3200	376	9539	470	\$ 517	2564	1470
92	6110	6570	7048	7510	7989	8454	8923	939	29860	0320	1460
92	71.967.0797	11 200	1734	220	12071	13130	13007	1407	454	1501	2 408
02	5480	5940	90410	6888	1735	17810	020	7075	1922	2,909	9408
92	9,968 0157	70025	1092	1550	202	249	1 290	342	389	5 430	407
93	4820	529	576	6230	6669	716.	7630	809	7 856	4903	467
93	949	19903	0430	089	136	2 1820	229	5 270	1322	71309	3 466
	2,969.4150	1028	2074	555	7002	3048	0095	8 742	1270	01200	416
93	4,970.346	393	1430	9 486	2522	8 570	3 160	8 672	2718	7 765	2 16
93	5 811	5858	1904	5,950	9997	4043	8 090	2 130	0 183	0 229	4146
93	6,971.275	322:	2 368	0,415	0 461	4507	8 554	2 000	5 040	9093	2 16
93	7 739	5 785	9832	3 8 7 8	6924	9971	3 317	0 003	9110	2150	5 40
93	8,972.202	8 249	1 295	4 341	7 338	0434	3 80	5 520	8 573	1019	346
93	-		-	1901	31050	0890	8 943	1900	THE RESERVE	THE RESERVE	-
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176	T	A B.	XX	XXI	I. I	Brigg	s's]	Loga	rithi	ms.	-
10	0	1	2	3	41		6	7	8	1_9	Dif
940	,973.1279	1741	2202	2664	3126	3588	4050	4511	4973	5435	462
041	5806	6358	6810	7281	7742	8203	8004	9120	9587	0048	401
	,974 0509	5577	1431	1892	5050	2014	7870	8240	8800	0260	460
943	9720	0180	0640	1100	1500	2020	2479	2939	3399	3858	460
945	.075.4318	4778	5217	5697	6156	0015	7075	7534	7993	0452	459
1046	8011	0270	0820	0288	0747	1200	1005	2124	2502	3041	459
947	,976.3500	3958 8541	4417	4075	5334	0272	0831	1280	1747	2204	458
949	,977.2662	3120	3577	4035	4492	4950	5407	5864	6322	6779	457
oro	7776	2502	8150	8607	0064	0521	0078	0435	0802	1348	457
951	,978.1805	2262	2718	3175	3631	4088	4544	5001	5457	5913	457
952	,979.0929	6826	7282	7738	8194	3050	2662	9502	0017	0473	450
953	,979.0929	5939	6304	6840	7304	7759	8214	8669	9124	9579	455
955	.080.0024	0488	0943	1308	1852	2307	2701	3210	3070	4125	455
956	4570	5033	5487	5942	0390	0850	7304	17750	0212	2000	454
957	,981.3655	9573	1512	0481	0934	1300	6274	6827	7280	7722	454
959	8186	8639	9002	9544	9997	0450	0902	1355	1807	2260	453
060	082.2712	2160	3617	4060	4522	4974	5426	5878	6330	6782	452
1001	7221	12686	8128	8580	0041	9493	9945	10390	10040	1200	4521
1,62	082 1751	2202	2654	3105	3556	4007	4459	4910	15301	5812	451
963	,984.0770	6714	7105	7010	2572	2022	2472	3021	4272	4822	451
965	F277	5722	0172	0023	7073	7523	17973	10422	10072	9322	450
1066	0771	0221	0070	1120	1500	2010	12400	2017	13300	3010	449
967	085.1265	47:4	5103	5012	0001	0510	10959	7407	17850	0305	449
968	, 86.3238	9202	4124	1582	5030	5478	5026	6374	6822	7270	449
The April 10	,000.3230	8165	8612	0060	0508	005	040	0850	1208	1745	148
970	- Q 1101	Johan	2087	12524	13081	442	14075	15322	I CO DO	10210	14.71
nan	hhh.	TIMO	17.000	10002	10450	поорг	04343	(K) 7:0 C	10230	JUU 0 Z	1447
	1 -00	N	20021	12402	12010	11/2/2/130	12000	進生 乙 に 2	14.000.0		14.40
974	,989.0040	00035	0437	1382	1828	227	2718	3163	3608	4053	445
976	440	14042	15300	45033	10270	10722	61/10	1/012	1304	10201	1445
tone	1 Qual	Sagar	0825	10270	072	1116	81012	2050	12500	2944	1444
	,990.3386	3833	8217	4721	060	5000	10488	0931	137	7303	1444
979	1991 226	70271	2145	1500	402	144-1	64010	5 26:	1 5800	6247	142
ta Q.	660	- MI T T T	ロウモウロ	10010	HOLL	HOGO:	200144	44300	DEC 220	1007.2	1442
98;			TOOL	2441	1288	222	012701	514210	NADE	10000	1442
198	553	5 5977	6410	6860	730	2774	4818	5 862	906	9510	442
98	995	1 392	524	1275	612	6656	6700	7744	734° 817888	8320	441
1081	8-6	00210	20050	00000	0053	11097	11141	11105	1 2291	12731	1440
198	004 217	2/1612	405	14491	11493	11537	1581	1025	10000	7130	440
108	706	08000	044	2000	1932	71970	7020	0004	51108	1524	1440
10000	995 196	3 2402	204	3200	13/1	680	808	2043	2086	15913	439
990	635	579	161	205	248	0202	7336	5 380	3 424	14670	439
99	996.073	7 5550	599	6430	686	8 730	5 774	3818	0861	9055	438
lan	010	20020	1020	70804	11124	21107	QZII	0255	312.QQ	03427	1427
994	997 386	4 4301	473	5174	1001	604	2084	0128	735	7794	1437
999	998-259	866	246	300	1432	7 477	3 520	9 564	5 608	06516	430
lans	600	27287	7782	102	1800	41912	91950	40000	0043	50070	1435
1998	.000 130	5 1741	2170	2011	1304	0348	1391	0 435	0478	5 5 2 20	435
1999	565	6090	0524	0959	739	3 782	8020	2 009	913	19500	434
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,001	4384 6700 9021 1347 3678 6015 8357 0704 3057 5416 7780	231 232 232 233 233 234 234 235 235 236 246 237
,001	9021 1347 3678 5015 3357 5704 3057 5416 7780	232 232 233 233 234 235 235 236 236 237
,002	9021 1347 3678 5015 3357 5704 3057 5416 7780	232 232 233 233 234 235 235 236 236 237
004 9253 9485 9718 9950 0183 0416 0648 0881 1114 005 101. 1579 1812 22045 2278 2512 2745 2978 3211 3445 3 006	1347 3678 5015 3357 5704 3057 5416 7780	233 234 234 235 235 236 236 237
005 101 1579 1812 2045 2278 2512 2745 2978 3211 3445 3	3678 5015 3357 5704 3057 5416 7780	233 234 234 235 235 236 246 237
006	3057 5416 7780 0149	234 234 235 235 236 236 236 237
007	357 704 3057 5416 7780 0149	234 235 235 236 236 236 237
008	7704 3057 5416 7780 0149	235 235 236 236 237
329 3 3529 3764 4000 4236 4472 4708 4944 51805 511 655 5888 6124 6361 6597 6833 7070 7306 75437 8016 8253 8490 8727 8964 9201 9438 9675 99120 913 103. 0386 6623 0861 1098 1336 1573 1811 2048 2286 22 3614 2761 2999 3237 3475 3713 3951 4189 4427 4666 43015 51 25381 5619 5857 6096 6335 6573 6812 70517 7528 7767 8006 6245 8484 8724 8963 9202 94419	3057 5416 7780 0149	235 236 236 237
,010 329 3 3529 3764 4000 4236 4472 4708 4944 51805 5888 6124 6361 6597 6833 7070 7306 75437 8012 8016 8253 8490 8727 8964 9201 9438 9675 99120 9013 103. 0386 6623 0861 1098 1336 1573 1811 2048 2286 22 014 2761 2999 3237 3475 3713 3951 4189 4427 4666 4 015 51 2 5381 5619 5857 6096 6335 6573 6812 70517 7528 7767 8006 0245 8484 8724 8963 9202 94419	7780	237
011 565 5888 6124 6361 6597 6833 7070 7306 7543 7 8016 8253 8490 8727 8964 9201 9438 9675 99120 013 103 0386 6623 0861 1098 1336 1573 1811 2048 2286 2 014 2761 2999 3237 3475 3713 3951 4189 4427 4666 4 015 51 2538 15619 5857 6096 6335 6573 6812 70517	7780	237
012 8016 8253 8490 8727 8964 9201 9438 9675 99120 013 103. 0386 6623 0861 1098 1336 1573 1811 2048 2286 2 014 2761 2999 3237 3475 3713 3951 4189 4427 4666 4 015 51 2 5381 5619 5857 6096 6335 6573 6812 70517 016 7528 7767 8006 8245 8484 8724 8963 9202 9441 9	2524	237
,014 2761 2999 3237 3475 3713 3951 4189 4427 4000 4 ,015 51 25381 5619 5857 6096 6335 6573 6812 7051 7 ,016 7528 7767 8006 8245 8484 8724 8963 9202 9441 9	1904	1000
1.016 7528 7767 8000 245 8484 8724 8903 9202 9441 9	1200	237
1.016 7528 7767 8000 245 8484 8724 8903 9202 9441 9	And Delivery of the last	238
0020016002000620082811181358150818282	1681	239
	077	240
018 104. 2317 2557 2798 3038 3278 3518 3758 3999 42394	480	240
1,019 4720 4961 5201 5442 5683 5924 6165 6405 6646 6	887	241
,020 7129 7370 7611 7852 8093 8335 8576 8818 90599	1301	241
1.021 0542078400260268051007510993112351147811	720	242
1.022 105. 1962 2204 2446 2689 2931 3174 3416 3659 39014	1144	242
1.022 4387 4630 4873 5115 5358 5602 5845 6088 6331 6	574	242
1.024 6818/7061/7304/7548/7791/8035/8279/8522/8760/9	1010	244
3025 92549498 9742 9986 0230 0474 0718 0962 12071	451	244
1,026 106. 1696 1940 2185 2429 2674 2919 3163 3408 3653 3	1898	245
1,027 4143 4388 4633 4878 5124 5369 5614 5860 61056 1,028 6596 6842 7087 7333 7579 7825 8071 8317 8563 8	2800	245
10 - Of log a a log - 1 61 -	1273	246
,030107. 1519 1766 2013 2260 2507 2754 3001 3248 3495 ,031 3989 4237 4484 4732 4979 5227 5474 5722 5970 6	2/44	247
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3608	248
,032 0405 0713 09017200 7457 7705 7953 0202 0450 0 .033 8947 9195 9444 9692 9941 0190 0438 0687 0936 1	1185	240
1.034108. 14341683 1932 2181 2430 2680 2929 3178 3428 3	3677	240
1.015 3927417 4426 4676 4926 5176 5425 3075 5925 6	0175	250
1.036 6426,6676 6926 7176 7427 7677 7928 8178 8429 8	3679	250
1.027 8930,9181,9432,9583,9933,0184,0430,0087,0930,1	1189	251
,038109. 14401692 1943 2195 2446 2698 2949 3201 3453	704	252
1,039 39564208 4466 4712 4964 5216 5469 5721 59736		
,040 6478 6731 6983 7236 7489 7741 7994 8247 8500 8	753	253
041 9006 9259 951 2976 5 0019 027 20525 0779 10321	280	253
,042 110. 1539 1793 2047 2300 2554 2808 3062 3316 3570 3	5260	254
	8010	255
0175 0430 0686 9941 0197 0453 0708 0964 1220 1	1476	256
1.046 111. 1732 1988 2244 2500 2750 3012 3209 3525 3782	4038	256
1,047 4295 4551 4808 5005 5321 5578 5835 0092 0349 0	0000	257
048 6863 7120 7378 7635 7892 8150 8407 8665 8922	9180	258
1.049 943896969954021104090727098012441502	1700	258
,050 112, 2018 2277 2535 2794 3052 3311 3570 3828 4087 ,051 4605 4864 5123 5382 5641 5900 6160 6419 6678	4346	259
	0938	259
1,052 7197 7457 7717 7970 8230 8490 8750 9010 9270	9530	200
053 97960056031605 708371097135816181879	2140	1200
,054113. 2400 2661 2922 3183 3444 3705 3966 4227 4488 ,055 5011 5272 5534 5795 6957 6318 6580 6842 7104	726	1-60
	008	262
,056 76277889.8151841318070.893 9200.940219725 ,057 114. 0250 0512 0775 1038 1300 156 1826 2089 2352	261	5 263
1.058 2878 2142 2405 3008 3031 410 1445 4722 4980	524	9 260
,059 5513 5777 6041 6305 6563 683 99 7361 7625	788	9 20%
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78		T	A B	LE	X	XXI	II.				
Log.	0	1	2	-	4	5	16	17	8	-	Dif
,060	114.8154	8418	8682	8947	9212	9476	9741	0006	0271	0535	265
,061	115.0800	1055	1330	1596	1801	2120	2391	2057	2922	3188	205
,062	3453	3719	3985	4250	4516 7178	4702	7711	7077	8244	8511	266
,063	8777	0044	0211	0578	0845	OIIZ	0300	0047	0914	1101	207
,065	110 1440	1710	1084	2251	2510	2787	3054	3322	3590	3050	208
,056	4.120	4201	14002	1020	12100	5407	13733	0004	46/4	2741	400
,067	0010	7078	7347	17010	17005	0154	0443	0092	oyun	7230	209
,068		2465	2725	2005	0577	2546	3816	4086	4357	4627	270
-	9.00	5108	5430	5700	5980	6251	6522	6793	7064	7335	271
,070	7606	7877	18:48	8420	8601	8063	9234	9500	9777	0049	271
,072	118.0321	0592	0864	11126	1408	1680	1952	2225	2497	2709	272
,073	2042	3314	13500	12850	4132	4404	40/7	4950	5223	5490	273
,074	5769	8776	0315	0588	6861 9597	7135	0145	0110	0604	0068	273
,075	110.1242	11510	1701	2005	12340	2014	2000	3104	3430	3/13	275
,077	2088	4202	4530	14812	1000	5304	15039	5914	orgo	0405	275
,078	6741	17010	7202	2565	7842	OIIG	10395	0071	09471	4465	270
1,070	9499	9770	0052	0328	0605	1880	1150	1434	711	1750	277
,080	120.2264	2541	2818	3095	3372	3049	3927	6080	7258	7536	277
,081	5030	8002	8370	8648	8927	0205	9484	9762	0041	0319.	278
,083	121.050	20877	1156	1425	1714	1002	2272	2551	2830	31091	270
,084	2280	13008	3048	4227	4507	4707	15000	5344	5020	22001	200
,085	6186	10400	0740	7026	7207	7507	17007	0140	0420	9109	230
,086	122-1800	12081	9551	9832	0113	2207	3480	3771	4052	4334	282
,088	1616	14000	5100	5402	5745	10027	10509	10396	00/4	1.01	402
1.080	7430	7722	18002	8287	8570	8853	9130	9419	9702	9900	283
,000	123.0260	0552	0825	1110	1402	1686	1970	2253	2537	2821	284
,091	ator	12280	12070	anen	4241	4525	4010	12001	33/0	3003	284
3092	5947	0232	0517	0801	7086 9938	7371	7050	0705	1081	1366	285
,093	124 1600	11020	2221	2010	2700	13002	13300	3045	3744	4460	200
,095	4577	44301	ICOXX	C 27 C	1007	15040	10255	10444	Serving.	1090	407
lank	778.	17071	17068	NOAE.	15522	0020	100100	14490	4004	44/1	207
,097	125.0250	0547	0835	1123	1411	1099	1874	5162	5452	5741	280
,098	6	5210	6600	6808	7187	7477	7766	8050	8346	8636	280
,000	-	10210	0505	0705	0085	0370	0666	0956	1247	1537	290
,100	1126.1828	2113	2400	2000	2990	3281	3572	3003	4154	4445	291
,102	4736	55023	5319	15010	1590z	0193	10405	0/7/	7000	1300	292
100	765	794	18236	8528	8820	9112	9404	9097	9989	0282	292
	127.0574	270	11159	1452	4677	4070	5264	5557	2917	6145	293
,105		0732	7027	7321	7615	7909	8203	8498	8792	9087	294
1.107	0381	19570	9971	0265	0500	0855	11150	1445	1740	2035	295
,108	128.233	2626	2921	3217	13512	3808	4103	4399	4695	4991	296
,100	The second secon	C. Comments		THE REAL PROPERTY.	6471			10000		_	E bermennen.
,110	A TO THE RESERVE OF THE PARTY O	8546	8843	9140	9437	9734	3004	2202	0025	2809	297
,111		1404	4702	5000	5388	5687	5985	6284	6:82	6881	208
,113	7170	7478	7777	8076	3375	8674	18973	9272	9571	9870	290
,114	130,0170	10469	0768	1068	1368	1667	1907	2207	2567	2867	300
1,115	3167	3467	3707	4007	4308	4008	14908	5209	5570	5870	300
,116	0171	0482	0773	0087	7374 5388	0500	0002	1204	1506	1808	301
,117	131.2200	2502	2804	3107	3400	3711	4014	4317	4610	4922	302
,110	5225	5528	5831	0134	5437	6740	7043	7346	7650	7953	393
Log.		1		3	4	5	6		8	9	Dif
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Log	1		Nu	mber	's to	B	riggs	's L	ogar	ithn	15.		79
120	I	Log	0	1	2	3	4	5	6	17	8	9	Dif.
122 4342 46774957 \$257 \$562 \$667 6172 6478 6783 789	,	120	131.825	3560	8864	9168	9471	9775	3079	0383	0687	0991	304
132			132.1296	1600	1904	2209	2513	2818	3122	3427	3732	4037	305
124 133-0454p704 1007 1374 1086 1987 2294 2601 2907 3214 36 1296 125	-		4342	4047	4952	5257	5502	5867	0172	0478	6982	7080	305
126		1000000	7394	7700	1062	1274	1680	8924	9230	9536	9842	0.48	306
126			33.0454	2820	4126	4442	1750	1907	2294	2001	2907	3214	307
122	-	The State of the S	6506	6003	7211	7510	7827	8120	8442	8752	0060	0268	208
1.129	-		9677	9985	0294	0602	091	1220	1529	1838	2147	2456	300
130		128	134.2765	3074	3383	3093	4002	4312	4621	4931	5241	5550	310
131 35.2073 2384 2095 3007] 3318 3630 3942 4254 4565 4877 31 132 5189 5501 581 401 60 6438 675 17003 7375 7688 3001 3131 3136 1445 1758 2072 2385 2699 3013 3327 3041 3955 4269 3135 4583 4897 5212 5265 584 6155 6470 6784 7099 7414 31 315 4583 4897 5212 5265 584 6155 6470 6784 7099 7414 31 315 4720 7520 7527 7848 8199 3004 9020 9935 025 0566 31 313 137.0882 1197 153 1889 2145 2461 2777 3093 3409 3726 31 318 4042 4358 4675 4991 5308 5625 5942 6358 6575 6802 31 313 6720 7527 7848 8161 8479 8760 9113 943 9749 0066 31 318 0384 0702 1020 1338 1656 1974 2293 2611 2920 3248 31 3142 0756 7075 7395 7714 8034 3533 8073 8993 9313 9033 3341 3153 1441 393 3157 3478 3799 4114 4762 5083 5440 5725 5085 5340 5725 6047 3144 393 3157 3478 3799 4114 414 4762 5083 5440 5725 5084 5325 6047 3144 6088 6390 7012 7333 7655 977 3299 8021 8043 9265 3188 3149 9289 9613 9938 0263 0268 0392 1237 1562 1887 2212 3144 3137 3460 3783 4106 4430 4753 5077 5400 5724 3144 3137 3460 3783 4106 4430 4753 5077 5400 5724 3144 3137 3460 3783 4106 4430 4753 5077 5400 5724 3144 3137 3460 3783 4106 4430 4753 5077 5400 5724 3143 3142 2329 2656 2984 3312 3039 3967 4295 4023 4051 5799 3154 3142 3282 2656 2984 3312 3039 3967 4295 4023 4051 5799 3159 3422 3955 3981 2112 371 5608 5930 5024 5930 5940 5940 5930 5940			5860	6170	6480	6790	7101	7411	7721	8031	8342	8652	310
132	1	,130	8963	9274	9584	9895	0206	0517	0828	1139	1450	1761	311
133			135.2073	2384	2095	3007	3318	3630	3942	4254	4565	4877	312
136			5189	5501	8020	0120	0438	0751	7003	7375	7688	1008	312
135	1	133	126.1445	1758	2072	2285	2600	9070	2227	2641	2055	1131	313
136	1	125	4583	4807	5212	5526	584	6155	6470	6784	7009	7414	315
137			7729	8044	8359	8674	8989	9304	9620	9935	0251	0566	315
138	1	,137	137.0882	1197	1513	1829	2145	2461	2777	3093	3409	3726	316
140	1	,138	4042	4358	4075	4991	5308	5625	5942	6258	6575	6892	317
141	- 3		7209	7527	7044	0101	0479	8796	9113	9431	9749	0066	317
1,42			138 0384	0702	1020	1338	1056	1974	2293	2611	2929	3248	318
143	1	100000000000000000000000000000000000000	6756	3005	7204	77714	8041	3100	5479	5798	0117	0437	319
144 139-3157 3478 3799 4119 4441 4762 5083 5404 5725 5047 3260 5086 5090 7012 7333 7655 977 8299 8021 8943 9265 33 1446 9587 9910 0232 02554 0877 1200 1522 1845 2168 2491 33 1490 2814 3137 3460 3783 4106 4430 4753 5077 5400 5724 33 1490 9289 9013 9938 0263 0588 0912 1237 1562 1887 2212 33 1418 1419 9289 9013 9938 0263 0588 0912 1237 1562 1887 2212 33 1552 141-2533 2863 3188 3514 3839 4165 4490 4816 5142 5468 3404 8731 33 33 33 33 33 33 33			0053	0273	0503	0012	1222	353	1874	2105	9313	9033	320
145	1	.144	139-3157	3478	3799	4119	4441	4762	5083	2401	5725	6047	321
140			6368	6690	7012	7333	7655	977	8299	8621	8943	0265	322
148	1	,146	9587	9910	0232	2554	0877	1200	1522	1845	2168	2491	323
149 9289 90139938 0203 0588 0912 1237 1562 1887 2212 33 150 141.2538 2863 3188 3514 3839 4165 4490 4816 5142 5468 33 151 5794 6120 6446 6772 7098 7425 7751 8078 8404 8731 33 9058 938 49711 0038 0365 0692 1019 1347 1674 2001 33 3539 3967 4295 4623 49515 5279 34 5608 5936 6264 593 3921 7250 7579 7907 8236 8565 33 8894 9223 9552 9881 021 0540 0869 199 1529 1858 33 1557 8894 9223 9552 9881 021 0540 0869 199 1529 1858 33 1557 143.2188 2518 2848 3178 3508 3838 4168 4498 48295 1509 1559 1548 16812 7143 7474 7805 8136 8467 33 1578 8799 9130 9461 9793 0124 0456 0788 1120 1451 1783 33 159 144.2115 2447 2780 3112 3444 3777 4109 4442 4774 5107 33 1571 150 144.2115 2447 2780 3115 3450 3784 4119 4454 4789 5124 33 164 8772 9105 9439 9772 7105 7438 7771 8105 8488 83 3164 8814 9150 9486 9822 0158 0495 0831 1167 1504 1841 33 1167 1504 1841 33 164 8814 9150 9486 9822 0158 0495 0831 1167 1504 1841 33 164 8926 9265 9603 9941 0280 618 9957 1296 1635 1974 33 164 8926 9265 9603 9941 0280 618 9957 1296 1635 1974 33 165 147.2313 2652 2991 333 3669 4009 4348 4688 5027 5307 33 1670 6046 6386 6726 7066 7406 7747 8087 8427 8768 34 1770 1812 1531 4941 836 2177 34 1770 148.2518 2859 3201 3543 3884 4226 4566 4910 525 5594 34 1770 148.2518 2859 3201 3543 3884 4226 4566 4910 525 5594 34 1770 148.2518 2859 3030 3760721 1067 14712 1764 2107 2451 34 1773 1780 60236 6586 6925 7270 7614 7959 8333 8675 9018 3492 3482 3482 3482 3482 3482 3482 3482 3482 3482 3482 3482 3482		*147	140.2814	3137	3460	3783	4106	1430	1753	5077	5400	5724	323
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157		,155	1 8894	9223	19552	9001	0211	0540	0800	11199	1520	118:8	320
158			143.2188	2518	2848	3170	3508	3838	4168	4498	4820	5150	330
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	,186	815	14970	5324	0218	057	0385	0739	0626	0001	1346	354
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1	,189	5254	15610	5966	0322	6678	7035	7391	7747	8104	8400	350
1	,190	8817	9173	9530	9887	0244	0601	0958	1315	1672	2030	357
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1	200	161.0646	7311	7081	1759	2130	2501	2872	3244	3615	3987	371
	,208	4359	4730	5102	5474	5846	0218	0590	0963	7335	77.08	372
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	,249	4189	4598	5007	5415	5824	0233	0042	7051	7401	7070	409
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		178. 2379	2789 6899	3200	3010	4021	4432	4843	0260	0781	0104	411
1	,252	170.0606	1018	1431	1842	225t	2000	2081	3494	3907	4320	413
	,254	4734	5147	5500	5974	6387	0801	7215	7029	0043	0457	414
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1	,261	182, 3896	4316 8521	4730	5150	5570	5997	0417	0030	7259	14/9	420
1	262	182. 2214	2726	3158	3581	4003	4425	4848	5270	5093	0110	422
- 4	251	beak	Dont	7204	7807	5221	0054	0077	4701	7444	2340	11-31
1	,265	184.0772	1196	1620	2044	2468	2892	3317	3741	4100	4591	124
1	,267	9269	5440	5005	0290	0710	1300	7500	2252	2678	3105	426
	.268	185 2522	2058	4385	4812	5240	5007	0004	0522	0949	7377	447
3	,269	7804	8232	5000	9088	9510	9945	0373	0001	1230	050	420
	,270	186. 2087	2516	2945	3374	3803	+232	4661	5091	5520	5950	429
-	271	0280	0800	7239	7000	5000	8530	10000	9350	9021	0001	730
	,272	187.0682	5420	5050	0200	0722	7154	750	0019	0452	0004	14001
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	,275	188 2540	1082	4517	4051	5285	5810	0252	0000	7122	7557	434
1	,276	189. 2344	8426	2215	2651	9731	4524	4060	5396	5833	6269	436
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7	367	232. 2737 8091	8627	9164	9700	0236	9773	1310	1847	2384	2921	537
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-	378	220, 2216	12867	1418	4070	5521	6072	0025	7170	7728	8281	552
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1,	381	240. 4363	4916	5470	0024	6578	7133	7007	3702	4340	4005	556
1	382	241.5461	6018	6573	7130	7687	8243	8800	9357	9914	0472	557
,	384	242.1029	1587	2144	2702	3260	3818	4376	4934	5493	6051	558
1	385	243. 2204	7169	7728	2885	8846	9405	5567	6127	6688	7250	561
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	,420	263.0268	0874	1480	2086	2692	3298	3904	4511	5118	5724	606
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		264. 2409	3017	3020	4235	4044	5453	0002	0071	7201	7090	611
	,423	265.4606	9110	720	6440	7052	766	8276	2772	0500	3994	612
	1425	266. 0725	1228	1021	2564	3177	3700	1404	5017	5631	6245	613
	,426	6850	7473	8087	8702	9316	9931	0546	1161	1776	2391	615
	.427	267. 2006	3622	1238	4853	5409	6086	6702	7318	7935	8551	010
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	,429	268. 5344	15963	5581	7200	7819	8438	9057	9676	0290	0915	019
	9430	269. 1535	2155	2775	3395	4015	4635	5250	5877	6497	7118	620
	1.421	7730	8301	8082	9004	0225	0047	1400	2001	2713	3330	1020
	5432	270. 3958	4581	5204	5827	0450	7073	7697	0320	8944	9500	625
		271.0192	706	1440	2004	8042	3314	3930	4503	5109	2074	626
	,434	272. 2701	700	7091	1582	5210	5828	6460	7002	7721	8240	628
	,430	8078	9606	0215	0864	1402	2121	2751	3380	4000	4639	629
	.437	272. 5260	5800	5520	7150	17789	5420	19050	1800	0312	0943	1031
	,638	274. 1574	2206	2837	13460	4100	4732	5304	5997	0029	7201	032
	.439	7894	8 27	9100	9793	0420	1000	1093	2327	2901	3595	033
	,440	275.4229	4863	5497	6132	6767	7401	8036	8672	9307	9942	635
	,441	276.0578	1214	1844	2405	3122	3758	4394	5031	5668	0305	030
	.442	6042	7579	8216	8854	9491	0129	0767	1405	2043	2082	038
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	1445	278.6121	2182	7405	1471	\$117	5761	6405	7040	7602	8227	644
	5447		9626	0271	0015	1560	220	2851	3406	4142	4788	645
	.448	280. 5424	6080	6726	7372	8019	8665	9312	9959	0606	1253	047
	,449	281.1901	2548	3196	3844	4492	5140	5788	6437	7085	7734	048
	450	8282	0032	0681	0330	0980	1630	2270	2020	3570	4230	650
	1.451	282. 4880	5521	6181	6832	7483	8134	8785	0437	0088	0740	051
•	,452	283. 1392	2044	2696	3349	1001	4654	5306	5959	6612	7266	653
	,453	7919	8573	9226	9880	0534	1188	1842	2497	3151	3800	054
	,454	284. 4461	5110	5771	0427	2645	7730	0394	9050	9700	6022	657
		285. 1018	8249	2332	0565	0224	0882	1541	2200	2850	2510	650
	1,450	286. 4178	4828	5407	6157	6817	7477	8128	8708	0450	0120	660
	1.452	1287.0781	1442	2103	2704	3420	4080	4740	5411	0074	0730	002
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	1 160	1288 1022	4606	5260	6024	6680	7354	8010	8684	0240	0014	6651
	1,46	289.0680	1346	2011	2677	3344	4010	4676	5343	6010	6677	666
	,46:	289.0686	8011	8678	9346	0013	0681	1349	2017	2686	3354	668
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	1,40	7427	0099	5100	9443	684	7521	8100	8860	2000	3479	674
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	1 465	-her	82261	0002	10680	1025	1024	1711	2288	2006	2744	0771
	1,460	294-4421	5100	5778	6456	7135	7813	8492	9171	9850	0530	679
	1.470	295. 1200	1880	2560	3240	3920	4600	5280	5970	6651	7331	680
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	473	297. 1666	2350	3035	3719	4404	,089	5774	6460	7145	7831	685
	5474	8516	0202	9588	2575	1261	1948	203-	3321	4008	4095	687
	175	208. 5283	0070	0758	7440	8134	8822	9510	0198	0887	1570	088
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-	7477	300.6076	9853	7461	815	8846	0520	0222	0025	1610	2312	602
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.485	305. 4921	8597	5328	7032	7726	8446	2109	0840	3515	4218	703
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,514	326. 5878	6630	7383	8135	8888	0640	0202	1145	1375	5120	751
,515	327-3407	4101	4915	5669	6423	7178	7932	8685	0442	010	755
100	328. 095	1708	2404	3220	3976	4732	5489	6245	7002	7750	753
12510	330. 360	4456	5213	1078	2.37	13034	10-6-	1414	2174	2935	700
100	330. 369	2074	2826	2500	740	1/501	0203	9025	9757	10545	762
521	331. 131 894 332. 6590	9700	0472	1218	14302	5120	5889	0053	7410	8180	763
522	332.6596	7362	8128	8894	966	0428	3533	1298	5064	5830	765
123 -4	334. 1950	2720	3499	4260	5030	5800	6571	7341	811	888	770
1,520	335.737	5 5801	6666	9090	0470	1244	2018	2792	3566	434	774
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520	338.064	8 1427	2200	12984	1376	75	7530	10314	909	9870	778
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1.521	339.625	7035	781	8600	038	2016	50045	3907	4080	547	781
10000											
14 7 7 6	4/4	410304	100	1 1 4 E	7877741	Carrier Co.	A		elfa v m	-1600	_1.00
,535	342. 767	0627	925	10040	083	162	6 241	320	7 399	8 478	8 790
	344- 349 345- 143										
,539	939			7 178	1258	1 227	0117	700	780	1 859	7 796
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136	1	TA	В	LE	X	XXI	[].				
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	346. 7369	and the second second	966	97651	0564	1363	2102	2962	3762	4551	-
1.541	247. 5362	61625	962	7763	8564	9305	0166	0968	1769	2571	801
1.542	348. 237	41754	978	5780	6583	7386	8189	8992	9796	0599	803
	349. 140	202581	064	1870	2626	2482	4200	7035	5004	6711	807
1544	350. 7510	183269	134	994.2	0751	1559	2368	3177	3986	4795	800
1.546	351.560	164147	224	8034	8844	9654	0405	1275	2080	2897	910
,547	352.370	45205	332	1272	5086	7768	6714	9393	3244	1019	814
	997	307891	604	2420	3235	4051	4867	5684	6500	7317	816
	354.813										
1.000	1355.631	271327	951	8771	0500	0410	1230	2050	2870	3001	820
,55	356 .451	5332	153	974	7790	6817	9439	8402	1083	1900	824
255	358.096	17802	614	3439	4264	5080	5915	6741	7567	8393	826
1.55	921	00460	873	1700	2527	3354	4181	5000	5837	6665	827
1,55	359-749	383229	150	9979	0808	1638	2407	3297	4120	4956	829
1.55	360. 578 361. 409	40315	763	6596	7420	8262	9095	9929	0762	1506	833
5550	362. 243	32644	099	4933	5768	6603	7438	8273	9109	9945	835
	363.078	1 1617 2	453	3289	4126	4963	5800	6637	7475	8313	837
1.56	015	098800	827	1665	2504	3343	4182	5021	5860	6700	839
1,50	364. 753	9 0 3 7 9 9	622	8474	0317	0150	1002	1845	2680	3532	843
1.56	1366. 437	5 5220 6	064	6908	7752	8597	9442	0287	1132	1977	845
1,56	367. 282	3 3669 4	515	5361	6207	7054	7901	3748	9595	0442	847
,560	977	0 2137 2	985	3834	4082	5530	4877	7228	6570	7420	851
1.56	8 360. 828	291339	985	0837	1690	2542	3395	4248	5101	5954	853
1,56	370.680	7 7661 8	515	9369	0223	1077	1932	2787	3042	4497	8551
,579	371.535	262087	064	7920	8776	9632	0489	1346	2203	3060	856
,57	372.391	7 4775 5	232	0490	7340	5801	7662	3523	0783	0245	860
557	374. 110	6 1967 2	829	3691	4553	5415	6278	7141	8004	8867	862
1.57	973	00594	457	2321	3185	4050	4914	5779	0044	7509	804
>57	375.837	49240	105	0971	1837	2704	3570	4437	5304	4852	868
257	376.703	26501	461	8331	0201	0071	0942	1813	2683	35551	870
1.57	8 378. 442	6 5297 0	0010	7041	7913	8785	9058	0531	1403	227	072
557	9379-315	0 4023 4	897	5771	0045	7519	0394	9209	0144	1019	074
1,58	380. 189 1381. 065	4 2769	3645	4521	5397	0274	7150	6805	7684	9781	878
,58	2 044	3 0322	202	2082	2962	3843	4723	5604	6485	7366	880
1.58	3 382. 824	70120	1100	0893	1775	2657	3540	4423	5306	6189	883
1,58	4 383. 707	2 7956	6840	9724	0008	1493	2377	3202	2000	5032	885
,50	384. 591 6385. 478	4 5671	550	7447	8336	9224	0113	1002	1891	2780	889
1,58	7 386. 367	1560	449	6340	7230	8121	9011	9902	0793	1685	891
1.58	8 387. 257	63468	1360	5252	0145	7037	7930	8823	9717	0010	8931
1.50	9388.150	4 2398	3292	21100	1,000	1975	5820	6722	7625	8=20	807
,59	389.045	0318	216	2114	3013	3912	4811	5710	6600	7500	899
1.50	2 300. 840	0193000	200	IIIO	2010	2911	3812	4714	5615	6517	901
1.50	3391.741	983216	223	0120	1029	1931	2835	3730	4042	5545	903
,59	392.644	16407	7314	8220	0127	0072	0042	1840	2757	3665	905
1.50	6 394. 457	3 548 1	390	7299	8208	9117	0020	3930	1840	2750	909
1.50	7395. 366	6 4577	487	6398	7309	8221	9132	0044	0950	1868	911
1,59	8 396. 278 9 397. 191	3093	745	4660	5575	5401	7407	8222	0230	0155	914
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Numbers to Briggs's Logarithms.	871
Log., 0 1 1 2 3 4 5 6 7 8 9	Dif
,600 398. 1072 1988 2905 3823 4740 5658 6576 7494 8412 9330	218
,601 399. 0249 1168 2087 3000 3920 4840 5766 6686 7606 852	1020
,602 9447 0369 1290 2211 3133 4055 4977 5899 6822 7744	923
,603 400. 8667 9590 0514 1437 2361 3285 4209 5134 6058 698 3604 401. 7908 8833 9759 0685 1610 2537 3463 4389 5316 6243	924
1.605 402. 7170 8098 9025 9953 0881 1809 2738 3667 4596 5525	920
1,606 403. 6454 7383 8313 0243 0173 1104 2034 2065 3896 4827	021
1,607 404 5759 6691 7622 8555 9487 0419 1352 2285 3218 4152	933
1,608 405. 5085 6019 6953 7887 8822 9757 0092 1627 2562 3498	935
,609 406. 4433 5369 6305 7242 8178 9115 0052 0990 1927 2865	937
,610 407. 3803 4741 5679 6618 7557 8496 9435 0374 1314 2254	939
,611 408. 3194 4134 5075 6015 6956 7898 8839 9781 0722 1664 ,612 409. 2607 3549 4492 5435 6378 7321 8265 9208 0152 1097	941
613 410. 2041 2986 3931 4876 5821 6766 7712 8658 9604 0551	943
614411. 1497 2444 3391 4338 5286 6233 7181 8130 9078 0026	048
1,615 412. 0975 1924 2873 3823 4772 5722 6672 7623 8573 9524	950
[616]413. 0475 1426 2378 3329 4281 5233 6185 7138 8091 9044	952
617 9997 0950 1904 2858 3812 4766 5720 6675 7630 8585	954
618 414. 954 0496 1452 2408 3364 4321 5277 6234 7191 8146	957
600 16 860 661 661 661 661 661 661 661 661 661 6	959
,620 416. 8694 9654 0614 1574 2535 3490 4457 5418 6380 7342 ,621 417. 8304 9266 0228 1191 2154 3117 4080 5044 6007 6971	901
622 418. 7936 8900 9865 0830 1795 2760 3725 4691 5657 6623	903
1.023 419. 7590 8556 9523 0490 1458 2425 3393 4361 5220 620	1068
1,621 420. 7266 8235 9204 0174 1143 2113 083 4053 5023 500	1070
625 421. 6965 7936 8907 9879 0851 1823 2795 3767 4740 571	972
627 423. 6430 7405 8381 9357 9333 1310 2286 3263 4241 521	1974
628 424. 6196 7173 8152 9130 0108 1087 2066 3045 4025 500.	977
629 425. 5984 6964 7945 8925 9906 0887 1868 2849 3831481	1081
620 126, 5705 6778 7760 8743 0726 07CC 1603 2676 2660 64	030
1,631 427. 5629 6613 7598 8583 9569 0554 1540 2526 3512 440	0086
1,0321420.5405104/21/4591044/19434104241141012390133071437	519001
1,033 420, 5364 6353 7343 8332 0322 0312 1303 2203 2284 427	: local
634430. 5266 6258 7249 8241 9233 0226 1218 2211 3204 419	992
.635 431. 5191 6184 7178 8173 9167 0162 1157 2152 3147 414 .636 432. 5138 6134 7131 8127 9124 0121 1118 2115 3113 411	1007
637 433. 5109 6107 7106 8104 9103 0103 1102 2102 3102 410	2 997
,638 434. 5102 6103 7104 8105 9106 0108 1109 2111 3114 411	6
1.6391435. 5119 6122171251812819132 013611140 2144 3149 415	31 1

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eog.		1								
,640 4	3.65158	66164	67169	68175	69181	70187	71193	72200	73207	74214
,641	75221	70229	77230	78244	79253	80251	81270	82270	82288	8-207
,642	85307	80317	87327	88337	09348	90359	01370	02281	01102	04401
,643	95410	90428	97441	98453	99400	00479	01493	02506	03520	04534
,644 4	4.95549	00503	07578	08593	09008	10024	11639	12655	13671	14688
,645	15704	16721	17738	18750	19773	20791	21809	22827	23846	24865
,646	25004	26903	27922	20942	29902	30902	32003	33023	34044	35005
,647	16010	37100	18000	19152	40174	41197	42219	43242	44200	45289
,648	56562	47337 575 ⁸ 9	c2611	20642	60660	61606	52400	53405	54511	155530
,649	10000	2/309	200	39042	-	01000	02/24	03751	04779	05000
,650	00830	07805	08893	09923	70952	71982	73011	74041	75072	76102
,651	77133	78164	79195	80227	31259	182291	103323	84355	85388	86421
,652	07454	00407	09521	90555	191509	92023	9305	94093	19572	96763
,653	45.08167	90034	1024	11282	1222	102900	04017	0505	1 0009	07129
,655	18550	10600	20641	2168	2222	22256	2480	5 2584	9 1047	1 27933
,656	28076	30010	3106	2210	12211	0 34 0	2 25 22	212628	2 0000	6 38371
,657	30416	40462	4150	4255	2 4350	9 4464	5 4560	2 3672	0 4778	6 4883
,658	49881	50028	5197	5302	5 5407	3 5512	2 5617	1 5722	0 5825	0 4951
,600	60300	61419	0247	0 6352	0.6457	1 6562	3 6667	4 6772	6 6877	7 6983
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88		(ett)	TA	B L	EX	XXI	11.			
Log.		1	2	3	4	5		7	8	9
,660	45.70882	71935	72987	74040	75094	76147	77201	78255	79310	80364
,661	01080	02028	83529	04585	06211	07270	08220	00287	39866	90923
,663	46.02566	03626	04686	05746	06807	07868	08929	09990	11052	12114
,664	13176	14238	15301	16364	17427	18490	19553	20617	21681	22746
,665	23810	24875	25940	27005	28071	29137	30203	31269	32335	33402
.667	45153	16222	36604 47292	48262	10433	50504	51575	52646	53717	54780
,668	55861	56933	58005	59078	00151	01224	62298	63371	24445	65519
,669	66594	67668	68743	69818	70894	71970	73045	74122	75198	76275
,670	77351	78429	79506	80583	81991	82740	83818	84896	35975	87054
,671	98941	00022	90293	91373	92454	93334	94015	95090	90778	97859
,673	47. 09773	10858	11943	13028	14113	15199	16285	17371	18457	10544
,674	20630	21718	22805	23892	24980	20008	27157	28245	29334	30423
675	31513	32002	33692	34782	16200	17882	18054	39145	40236	41328
,676	42420 53352	54447	55542	56637	57732	58828	59924	61020	62116	63212
,678	6+310	55407	65504	67602	58700	09798	70897	71995	73094	74193
679	75293	76392	77492	78593	79693	80794	81895	82996	84097	85199
680	97334	87403	88506	39508	90711	91815	92918	94022	95126	96230
682	18. 08393	00:01	10508	11716	12824	13933	15041	16150	17250	18268
683	19478	20588	21698	22808	23919	25030	26141	27252	28364	29476
684	30588	1700	32813	33926	35039	30153	37206	38380	39494	40600
685	52885	12839	43954	45009	10185	8475	50504	49534	50051	51768
687	64072	5192	56313	67433	58554	69675	70797	71918	73040	74162
688	752857	6408	77531	78654	79777	10608	82025	83149	84274	85399
689	86524	7649	88774	89900	91020	92153	93279	94400	95533	96661
601	97788	89100	11240	12471	12602	14724	15866	16008	008190	7949
092	20305 2	1528	22662	237951	24929	20003	27198	28332	20467	20002
693	31738	2874	4010	35146	30282	374191	38550	39093	40831	11060
694	431074	4245	15384	10523	17002	10001	49941	51081	52221	53361
696	65923	7067	8211	9355	70499	71644	72789	73934	75070	76225
697	773717	8517	79664	30810	31957	3105	84252	85400	86548	87696
698	88845	9994	21143	92292	3442	94592	95742	96892	98043	99194
1-	11872									
700	234262	1582	25740	26807	28055	29213	30371	31520	32688	22209
702	35006	6:66	37325	38485	39646	10800	41967	43128	41289	45451
703	4661314	7775	18938	0100	51203	52420	53590	54754	55918	57082
704	58247 5	19411	72242	73410	74579	75747	76016	78085	79255	80421
706	81594	32765	83935	85106	86277	87448	88620	89792	90964	92136
707	93300	14482	95655	96828	98002	99176	00350	01525	02700	03875
708	16818	17007	10175	20254	21522	22713	23802	25072	26252	27420
710	28614									
711	40437	41620	42804	43989	45173	46358	47543	48729	49914	51100
712	52286	53473	54660	55847	57034	58222	59410	50598	61786	62075
713	76068	5353	28452	77732	80818	82011	82271	72494	73085	74877
714	88000	89105	90300	91585	92781	93977	95173	96360	97566	08762
716	99960	01157	02355	03553	04752	05950	27149	08348	09547	10747
717	72. 11947	13147	14348	15549	16750	17951	19153	20355	21557	22759
718	23962 36004	25105	28416	20522	40820	12026	13242	44451	33594	34799
719		1	2	-	1	-5	6	7	8	
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-		Nui	nbers	to B	riggs's	Log	arithn	ns.		89
Log	_	1	2]_3			1 6	7	8	19
5720	52.4807	49283	50492	51701	52910	54120	55330	56540	5775	58962
-722		61384	02590	75045	05020	00232	07445	80801	83010	82226
5723	8445	73513	86887	88104	89322	90540	91758	92977	94196	95415
,724	90034	197854	99074	00294	01515	02736	03957	05178	05400	07022
,725	53. 08844	10067	11290	12513	13736	14960	16184	17408	18633	19858
,727	A CONTRACTOR OF THE PARTY OF TH	22308 34577								
,728	45644	46875	48106	49338	50569	51802	53034	54267	55500	56733
,729	57967	59200	60435	61669	62904	54139	65374	66610	67845	09082
730	70318	71555 83937	72792	74029	75266	76504	77742	78981	80220	81459
,731	05106	96349	85177	08824	87058	88898	90139	91381	92022	93004
	54. 07543	08780	10034	11280	12526	13772	15019	16266	17513	18761
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,735	32503	33754	35006	36257	37509	38761	40014	41267	42520	43773
,737		46280 58835	47535 60002	61250	152608	62865	55124	66382	67641	68900
,738	70160	71419	72679	73940	75200	76461	77722	78984	80245	81507
,739	82770	84032	85295	86558	87822	89086	90350	91614	92879	94144
,740	95409	96674	97940	99206	00473	01739	03006	04273	05541	00809
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,746	84702	7 31 41 85988	87274	88:61	30848	01135	02423	03711	04000	9628
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,749	50. 10480	11772	13004	14357	15650	10943	18236	19530	20824	22119
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,751	30377	37675	38973	52274	41570	55878	57180	58482	10709	51080
,753	62393	50671 63697	65001	66306	67611	68916	70221	71527	72833	74139
,754	75446	70753	78060	79368	80676	81984	83292	84001	5910	57220
,755 ,756	88529	89839 02956	91150	92400	93771	95082	90394	977000	99018	12471
,757	14786	16102	17419	18735	20052	21370	22687	24005	25323	26642
,758	27960	29279	30599	31918	33238	34559	35879	37200	38521	39843
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,760	54399	55725 68993	57050	58376	59702	74200	02355	03082	25009	00337
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,763	94287	95621	96956	98291	99626	00962	02298	036340	4970	00307
,764	58.07644	08982	10319	11057	12996	14334	15073	170131	8352 1	9092
,765	24451	22373 35795	37130	38482	30827	41172	12517	138624	5208	6554
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,772	15616	16979	18341	19704	21067	22431	23795	25159 2	0523 2	7888
,773	29253	30019	31984	33350	34717	30083	37450	38184	01854	1553
,774	42922	44290	15059	47028	48398	49708	51138	2500 5	307919	5250
,775 ,776	70252	57993	73102	74478	75854	77230	78607	79084	1361	32738
.777	84116	85494	36872	88251	89630	91009	92389	93769	5149	30530
,778	97911	99292	00674	02055	03438	04820	00203	07580K	08970	103531
	60. 11737		14507			18003	20049	21435		
Log.	0	1	2	3	4 NA	5	0	7	8	9

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og.	0	1	2	_3_	4	5	6	7	8	9
780	60. 25596	26983	28371	29760	31148	32537	33926	35316	36706	38096
781	anist	10827	12200	42000	15051	40444	47030	49229	50022	52015
782	53409	54803	50197	57592	22054	60382 74353	75751	77151	78550	70050
783	81250	BARTO	SAICI	85552	80054	382551	00750	91100	QZSU3	03000
-0-1	acoba	ahama	08177	18200	00000	02201	03700	05201	000007	08014
,786	61 00120	10827	12224	12042	15050	10458	17807	19275	20005	22004
,787	23504	24014	20325	27735	20140	30550	31070	33302	34794	3020
,788		39033	40447	1.6020	57437	44690 58855	60274	61602	63111	64530
789		62000	68700	20211	71622	73053	74474	75806	77310	78741
790	80164	81585	82011	134425	85850	57283	88708	90133	91559	19298
,791	01111	00827	07264	08001	00110	01540	02975	04403	05032	07201
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,794	22002	24426	125800	27202	120727	20171	21000	33048	134477	135012
,795		38785	40221	41058	143090	44534 58929	60270	61812	62251	64606
,796	1 11	67582	60025	70460	171013	73357	74802	76247	77692	79138
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,799	95062	96511	97961	99412	00802	02313	03705	05210	000008	0812
,800	63-00572	11026	12480	1 2033	15387	1684.2	18296	19751	21207	2266:
,801	24410		27022	28480	20046	21404	22802	34220	735770	12722
,802		40157	41617	43077	44538	45999	47400	62558	50384	5184
,803	53309	54772	70888	57700	72822	60628 75291	76750	78227	70606	8116
,804		84105	85575	87045	88516	89987	91459	92931	94403	9587
,805	07248	08822	00205	01760	03243	04718	00193	07008	109144	1001
,807	64. 12006	12572	15049	16527	18004	19482	20961	22439	23918	2539
,808	26877	28257	29838	31318	32799	34281	35702	137244	130727	40210
,809	41693	43176	44000	40144	47028	49113	50590	2004	53570	5505
,810		58029	59516	61004	62492	63980	80270	8.86	198447	0993
,811	0600	0-0-0	80222	100826	102221	78881	35212	008008	103204	100800
,812	65.01200	02704	04202	105780	107288	08780	10205	11704	113204	11478
,814	10287	TOTAL C	110200	120707	122200	124790	143443	40/44	140290	12400
,815	2-120	22810	34314	135819	137324	138820	140335	41841	143340	14485
,816	4636:	1-860	40277	100883	15230	152002	155412	150Q22	150432	5004
,817		3 62964	104475	05987	107499	84154	85671	87187	88704	7500
,818	7057	78093	04778	0620	0781	99332	00852	02372	03803	0541
,810	66.0693	193431	0007	LICO	1202	14545	16060	17502	10116	2004
820	2216	* antion	25211	120741	12020	7120703	131320	14Z047	144375	13500
,821	3743	138050	40488	42017	4354	45077	46607	48138	49660	5120
,82		25426	55796	57329	5886	60395	61929	0346	64998	6653
,82.	6806	8 bobo	711120	17207	7421	2175740	177200	170024	H0030.	0016
,82		9 8497	0101	10247	0501	906563	08100	0065	195/0	71274
,826	67.1428	00300	1728	1802	2047	22023	23571	25110	26668	2821
,828	2070	7 3 1 2 1 (132800	0134417	713590	0137519	1390/	14002	4421/	14372
,820	4528	0 4683	48387	4994	15149	53051	54000	2010	5771	7 5927
,830	6082	6228	6204	16550	2 6706	68618	70177	71730	5 7329	7485
,831	7641	channel	570526	18100	818205	384221	105734	137340	0008810	00047
	00000	hanha	105100	Copyra	20.820	Clookbo	MOI 420	HOZQQ:	2104550	010012
,833	3 08. 0709	40920	26020	2810	2 2067	131247	22820	3430	13506	3754
,83.	2011	6/1060	14220	143843	2 4541	14000	148572	15014	0151720	15330
,83	F488	25646	1158040	100010	00110	02779	104359	10594	00752	10010
,837	2068	112226	772840	7543	27701	178500	190193	13170	00235	2 8402
0 - 0	86.00	18810	18aba	101282	20280	0104450	100044	10703	200220	08000
,830	69. 0239	8 0398	0557	0710	0875	10349	1194	353	2 1512	1071
Log		1, 1	+ 2	1 3	. 4	1 5	1 6	**	8	1 0

_		Numb	ers to	Brig	gs's I	ogar	ithms			91
Log	0	1	2	3	4	5	6	7	8	9
840	69. 18310	19903	21496	23090	24685	26279	27874	29470	31065	3266:
841	34450	35055	37452	30050	40048	42240	42845	15444	47043	15011
843	6626	51044	53445	55040	56648	58250	59852	61455	63058	04661
844	82205	07009	85514	71079	72084	74290	75896	77502	79109	80710
845	08420	03932	05540	87149	88758	90307	91977	93587	95198	90800
846	70. 14553	16168	17784	10400	04809	00482	08095	09709	11323	12930
847	30722	22342	22062	25582	21017	28822	24251	42065	27400	29100
848	46031	48553	50177	51800	57202	50022	-66572	42005	50024	45300
849	46931 63176	64802	66420	68056	60684	71212	72040	30290	26108	27828
850	70458	81088	82210	84250	0 - 0 -	0-6-4	2040	74509	70.90	77020
851	05778	07472	00046	00681	05901	07013	09245	90878	92511	94144
852	95778	12772	15411	17050	18680	03952	21068	07224	00001	1688
853	28530	20172	31814	22456	25000	26542	28286	40029	116-1	1221
854	44963	46600	48254	40001	51547	52104	54841	56480	-8175	4001
855	61434	63083	64733	66282	68022	60684	71225	72086	24628	26200
856	77943	79596	81249	82003	84557	86212	87866	80522	01177	0282
857	94490	90147	97804	99461	OILIO	02778	04426	06006	07755	ODAL
858	72. 11075	12735	14396	16058	17710	19382	21044	22707	24370	2603
859	27698	29362	31027	32692	34358	36024	37690	39357	41024	4260
860	44360	46028	47607	40266	51025	52705	54275	56046	22712	-n28
861		62732	64404	55077	67750	60121	71008	72772	7//4/	2612
862	77798	79474	81150	82827	84504	86182	87860	89538	01217	0280
863	94575	90255	97935	00616	01207	02078	04660	06242	08025	0020
864	73-11391	13075	14759	16443	18128	19813	21400	23185	24871	2655
005	202451	200331	310211	22200	24008	20087	28277	100000	AIMEN	1011
866	45130	40830	48522	50214	51007	£2000	55202	c6082	c8681	60271
867	020/1	03/00	05402	07150	00055	70552	72250	73047	75045	7724
868	79042	00742	02441	04141	05042	87543	00244	00040	02048	04250
869	90053	97750	99400	01104	02868	04573	00278	07983	09689	1139
870	74.13102	14810	16517	18225	19933	21642	23351	25061	26770	2848
871	30191	31902	33014	35320	27028	28751	40464	42177	12801	1260
872	47320	49035	50750	52466	54182	55800	57016	50222	61051	60060
873	04400	00207	07920	09040	71300	73000	74007	70520	702:0	2007
874	010051	074101	051411	80805	XXXXX	COSTA	02028	O to to the	ME ANN	mmax1
075	98942 75. 16229	00009	02390	04124	05852	07581	09309	11039	12768	1449
070	75. 10229	17900	19091	21423	23155	24887	26620	28353	30087	31821
0//	23554	35-41	37020	30701	40497	42234	43971	45708	47440	40182
878	50922	52001	5440	50140	57880	59621	01301	63103	64844	66586
879		70072	71015	73559	75303	77047	78792	80537	82283	84029
880	85776	87523	89270	91018	92766	94514	96263	98012	99762	0151:
001	70.03203	05014	00705	08517	10200	12021	13774	15528	17281	10026
002	20790	225451	24300	20000	27012	20500	21220	22082	24841	16000
883	30358	40117	41870	43030	45396	47157	48918	50679	52441	54203
885	55900	77729	59493	01250	03021	04785	00550	08316	70082	71848
886	73013	73302	048.5	76617	00000	02455	04224	85993	07703	89534
887	77:00025	16810	12586	14060	90392	150104	01938	03711	05485	07200
888	77:09035	28585	20265	22145	20006	2550	19092	21470	41040	25027
889	26806 44618	46401	48185	40070	53920	53707	37408	39270	-880-	4263
890	62.23	64270	660	6-0	11/34	33339	33325	57111	-6.0	-3
891	80066	821-5	82040	07035	09024	71413	73203	74993	70783	7857
892	08300	000007	03949	05742	07535	09328	91122	92916	94711	90500
802	98301	18028	10879	21600	05487	27284	09082	10881	12079	1447
894	78-16278	26101	17005	20710	23400	25282	27084	20007	30009	3249
895	52256	54165	55072	39/10	41515	43321	45127	46934	66941	6064
896	70458	72270	74080	75806	39592	01402	8100	65023	84060	26-0
897	88601	00418	07775	04050	07910	79524	01339	83154	04909	0075
808	79.06786	0860-	10428	12250	14072	15805	1771	10541	21265	2218
0	, , , , , ,	26828	2866	30490	140/2	1,3,43	1.11.7	19541	2.305	12310
899	25012	200401	ZOURIE	2014 (10)	122211	124142	12 507-	10つたのち	12(11) 2.0	14145

M 2

92			ГΑ	B L.	EX	XXI	II.	elijV.		
Log.	0 1	1	2	3	4	5	6	7	8	9
,900	79-43282	45112	46941	48771	50602	52433	54264	56096	57928	59760
,901	61594 79947	91282	82622	85461	87200	80120	72000	74430	76273	78110
,902		00184	02027	03870	05713	07556	00400	11245	12000	90501
,904	80. 16781	18627	20473	22320	24108	20010	27864	29713	31562	22411
,905	25261	37112	28062	40814	42005	44517	40270	48222	150076	51020
,900	53784	55039	57494	77028	79789	81640	82510	85270	80034	70492
,907	00050	02822	04685	190550	108414	00279	02145	04011	00877	07742
,909	81.09611	11478	13340	15214	17083	18952	20822	22692	24563	26434
,910	28205	30177	32040	33922	35795	37669	39543	41417	43202	45167
,911	47043	48919	50790	152073	54550	75220	58306	60185	62064	63944
,912	84648	86522	88418	90304	92190	94076	05062	07851	00000	82764
914	22.02515	05405	07294	09184	111075	12900	14857	16740	18641	20522
1,915	22/26	24220	20214	28105	30003	131898	33794	25600	27587	20184
,916	41381	62282	6418	66088	48975 67991	60805	71800	74075	50576	58478
1,917	20122	181228	82225	105142	137051	100050	100808	02777	104687	06-00
,919	98508	00419	02330	04242	00154	08007	09980	11894	13808	15723
	82. 17628	19553	21460	23385	25302	27219	29137	31055	32073	34802
,921	36812	38732	40052	61804	62720	65656	48338	50260	52183	54106 73365
1922	50030	77222	70151	81080	33010	84941	86872	88802	71437	73305
1.024	0.1600	106533	108467	00401	02335	04270	106205	08141	10078	12014
1.925	84. 13951	15889	17827	19760	21705	23044	25584	27524	29465	31406
	33348	35290	37232	58620	60577	62526	64474	66424	48897	50842
2927	72274	74225	70177	778120	18000	102034	183087	85041	187805	80850
1,929	91805	193760	95716	97073	99030	01507	93545	05503	07462	00421
	85.11380	13349	15301	17262	19223	21185	23147	25110	27073	29037
,931	31001	32900	3493	130090	158516	60517	142795	44703	46730	48698
933	70378	72352	74320	70301	178270	00251	82227	84203	86180	88157
1.02/	00125	02113	04002	290071	100001	100031	02011	02002	05072	DEDEE
939	186,00028	111020	113002	115007	117871	119850	21841	22826	25812	27700
930	29785	51671	15266:	55656	57650	59643	61637	62622	45097	47688 67623
,938	8 60610	71014	73012	275010	777007	179000	191002	83004	185604	87604
1,939	89604	191609	93607	95000	97011	99014	01019	03622	05626	07631
	87. 09636	11642	13648	15054	17661	19660	21677	23685	25694	27704
941	29714	31724	33735	85588	57000	59779	61024	43790	45809	47823
943	70008	72028	7404	8 70001	78080	80111	82133	84155	86178	88201
.944	90220	192240	94274	190290	198325	00351	02378	04400	06432	08460
	88. 1048	12518	14547	3600	18007	120038	122000	24701	26733	28766
,940	51150	5310	5523	357272	2 59312	61352	63303	65424	67476	69518
,94	71560	7300	375647	777090	79735	81780	83825	185871	87017	80064
,949	92011	194050	9610	98150	00209	02254	04304	06355	08406	10457
	89. 12500	1456	1661	1800	20722	22776	24831	26886	28942	30998
95	3305	55710	5777	25983	61808	63062	66026	68001	70156	72222
,95	74288	7635	7842	2 80486	82557	84626	86699	88764	190834	92005
6954	94976	97047	99110	90119	03264	10533	07411	09486	11560	13636
955	90. 15711	1778	1980	142720	24019	4600	48089	30255	32334	34414
1.950	57326	59412	0149	8103589	05072	07700	09848	71936	74026	76115
1,958	78205	180296	82387	8447	86570	88663	90756	92849	94943	97038
1959	99133	01228	0332	05420	07517	09615	11712	13811	15909	18009
Log	. 0	1	2	1 3	1 4.	1 . 5	6	1 ~	8	9

		Num	bers	to Br	riggs's	Loga	irithn	is.		93
Log !	0 1	1	2	3 1	4 1	5	6	7 ,	8 1	9
	1.20108	22200	24309	26411	28512	306143	27173	4820	369243	9028
.961	41132	13237	15343	47449	19550	51663 5	37705	587819	79876	0005
062	62205	64315	66425	08530	70047	72759 7	48727	0985	90988	1212
963	83320	85441	37550	10866	12077	93905 9	72211	0244	11/67 0	2377
,965	2:714	27820	20064	32080	34215	36342	8460 4	0506	12724 4	4852
,966	46082	40111	1241	53372	55502	5703415	97000	1898	40316	6164
,967	68298	70433	72567	74703	76839	78975	111128	3249 8	35387.8	7525
1.068	80664	01803	93943	96083	98224	00305	25070	464910	007920	8035
,969	3. 11079	13223	15308	17513	19059	2180	3951 2	0099	28240 3	0394
,970	32543	34692	36842	38992	41143	43294	5445 4	7597	197505	1903
,971	54057	50211	50305	82000	84250	86430	88582	9140	13037	3402
,972	75020	77779	01:62	03727	05802	86420	0225	2302	14550	6727
973	94. 18896	21065	23235	25405	27575	29746	319183	4090	36262 2	8435
975	40600	42783	44957	47132	49308	51404	300005	5037	5001510	0193
,976	62372	64551	66730	68910	71091	73272	75453 7	7035	798188	2001
.077	84185	86369	88553	90738	92924	95110	772979	9484	01671	3859
,978	95.06048	08237	10427	12017	14807	10998	191902	1302	23575	5708
979	27902	30150	32350	34540	50/41	38937	62220	3331	45529	7727
,980	49926	52125	54325	50525	80751	60927 82967	85174	3331	80580	9737
.981	71941	74145	08426	170525	02847	05058	07270	00482	11605	12000
,982	96. 16123	18237	20552	22768	24984	27200	29417	31635	33853	36071
,984	25200	140510	42730	244950	147172	1493931	510151	3030	200011	502051
1.985	60500	62733	64950	67184	109411	71037	73804	70092	78321	80549
086	82779	85008	87239	89469	91701	93933	90105	98398	00031	02805
1,987	97.05100	07335	09579	11800	26426	28628	10021	12164	22994	25233
,988	27472	29712	5195	756624	2888	38678	63376	65624	67872	70122
,989	THE RESERVE OF THE PERSON NAMED IN	32142	7687	17012	8127	83630	8:882	88126	00200	02645
,990	04000	007155	too I	201008	0302	00183	00441	10700	12050	15210
,991	08. 17470	10740	2200	2 24262	20520	28789	31052	33310	35581	37840
,993	40111	142377	14404	4440011	14917	5 5 1 4 4 0	53715	55904	150254	00524
1,994	6270	165066	15733	809610	7188	3 74150	70430	78705	00980	03255
1.995	8553	187807	10008	4 92362	9404	0 90919	99198	01477	103758	00038
,996	99.08319	10001	1288	3 15 100	745	19733	14800	47181	40471	51262
,997		33447	1-862	000023	10222	42601	07810	70111	172407	74704
,998	100000000000000000000000000000000000000	7929	8150	68380	8610	4 88494	90794	93095	95396	97698
,999		1/9-9	2	1 2	1	1 5	6	7	8	0
Log	0	1	1 2	3_	4	, ,			-	

The use of LOGARITHMS may briefly be explained as follows:

Put m and n for any two Numbers, and M and N for their Logarithms: Then,

$$M+N=$$
 Log. of $m \times n$.
 $M-N=$ Log. of $\frac{m}{n}$.
 $n \times M=$ Log. of m_n .
 $\frac{M}{n}=$ Log. of $\sqrt[n]{m}$.

1	194 TABLE XXXIV.										
	-			r.D	o Degree	1 123	17)	C 0: 1	- I.e		
ı	M		- 54	b'D	Tang.	Ada	-		D.M		
ı	0	11 1 1		1	6, 4637261			10,0000000	60		
I	1 2			1	7647562	1		9,99999999	158		
ı	3	940847	3	1	9408475	2	1	8	1 57		
ı	4	7,0657860		1	7,0657863	2	I	7	1 56		
	56	162696c		2 1		3	2	5	255		
		3088239		3 1	3088248	7	2	3	2 54 2 53		
	7 8	3668157	1 4	4 1	3668169	8	2	9,99999.88	3 52		
	9	4179681	4 4	-	177	THE RESIDENCE	2	85	351		
1	10		1	5 1		12	3	82	350		
1	11	5051181	3	3 2	5051203	18	3	78	449		
1	12	5776684				21	3	74	4 48 5 47		
1	14	7,6.098530	1:		7,6.098566	25	3	64	5 46		
1	15	398160	14		398201	28	3	59	5 45		
1	16	678449			678492 941786	31 36	4 4	53	644		
1	17	7,7.189966	21		7,7.190026	40	4	47	643		
1	19	424775			424841	44	5	34	741		
1	20	647537		1 3	647610	49	5	27	740		
-	21	859427	27	7 3	859508	54	5	19	13/1		
-	22	7,8.061458	30	3	7,8.061547	59 65	6	20171	8 38 8 37		
	23	254507 439338	32	3	254604 439444	71	6		936		
	25	616623	30	3	616738	77	6	85	935		
	26	786953	41	3	787077	83	6	- 76	934		
1	27	950854	45	3	950988	89	7 7	100000	033		
	29	7,9.108793 261190	51	4	261344	103	7	45 1			
232	30	408419			AND DESCRIPTION OF THE PARTY OF	111	7		130		
li	31	550819	59	4	550996	118	78	231	1 29		
1	32	688698	63	4	688886	125	0	121	1 28		
	33	822334 951980	70				8	9,99997.88	2 27		
	34	8,0.077867	74	4	8,0.078092	151	8		3 25		
	36	200207	79	5	200445	159	9	62 I 48 I	3 25 3 24 3 23		
1	37	-319195	79 83 88	5	319446	168	9	48 1	3 23		
1	38	435009		5	435274	177	9	35 1.	4 22		
1	39	547814	- MARGINERAL STATES	2	658057	106	9.		-		
1	10	657763	103	5	765306	206	10	9,99996.911	5 19		
	12	764997 869646	108	5	869970	216	0	76 I 60 I	5 18		
1	13	971832	114	5	952192 8,0.078092 200445 319446 435274 548094 658057 765306 869970 972172 8,1.072025 169634 265099 358510	226	10	60 1	617		
		8,1.071669 169262	119	1 6	8,1.072025 169634	237	I	44 I 28 I	6110		
1	15	264710		6	265099	260	11	11 1	714		
14	17	358104	136		33	-/-	12	9,99995.94	7 13		
14	18	449532	141	0	449956	283	12	771	7 12		
	19	539075	147	0	539516	294		591			
1	0	626808 712804	153	6	627267	300	13		810		
15	2	707120	165	7	713282 797626	332	13	03 1	0 8		
1	3	879848	172	17	880304	344	13	9,99994-841	9 7		
1:	4	961020	179	7	901550	357	14	042	0 6		
100	5	8,2.040703	185		8,2,041259	371	4	44 2 24 2			
15	7	118949	198	777	196408	399	14	03 2			
13	8	271335	206	7	271953 346208	412	14	9,99993 82 2	1 2		
15	9	345568	213	7	346208	427	15	60 2	2 1		
1/	VI	Co Sine	Sub	D.	Ar.Co. Tan	Ada	DI	Sine. L).M		

	Logarithms of Sines and Tangents. 95									
MI	0:	Subs.	DI		477	10	10 0 1011			
-			-	Tang .	Add.					
1	490332	2. 20	78	8,2.419215	4.42	15	9,9999.3382260			
2	560943	35	8	561649	71	15	294 22 58			
3	630424	42	8	631153	87	15	271 23 57			
4 5	698810 766136	51 58	8	699563 766912	5.02	16				
5	832434	66	8	833234		16				
7 8	897734	75	8	898559	50	16	175 25 53			
	962067	83	9	962917 8,3.026335	67 83	17	1502552			
10	087941		9	088842	6.01		125 25 51			
11	149536	08	9	150462	18	17	0742649			
12	210269		9	211221	35	18	047 26 48			
13	270163 329243	35	9	271143 330249	53	18	9,9998.9942746			
15	387529	45	9	388563	89	19	966 27 45			
16	445043	54	9	446105	7.08	19	939 28 44			
17	501805 557835	63	9	502895 558953		19	9112843			
19	613150	82		614297	65	19	882 29 42 853 29 41			
20	667769	92	=	668945		20	8242940			
21	721710	4.01	10	722915	8.04	20	7943039			
22	774988	2000	10		24	100000	7643038			
23	827620 879622	10000	10		64	20	7343037			
25	931008	42	10	932336	86	21	672 31 35			
26	2 173		11	983152	9.07	21	641 31 34			
28	8,4.031990 081614	74	11	8,4.033381 083037	49	21	609 32 33			
29	130676	85	11	132132		22	577 32 32 544 33 31			
30	179190	96	11	180679	93	22	5122220			
31	227168	5.07	11	228690	10.15	22	47833129			
33	274621 321561		11		37 60	23	445 34 28			
134	307999	40	12	369622	83	23	376 24 26			
35	413944	53	12	415603	11.06	23	342 35 25			
30	459409 504402		12	506131	53	24	300351241			
37	548934	88	12	550600	77	24				
39	593013	0.00		504814	12.01	24	1993621			
40	636649	12	12	638486	25	25	1622220			
41	722626	35	12	681725 724538	50	25	0883719			
43	764984	49	113	766022	113.00	25	050 38 17			
44	806932	62	112	808000	26	25	9,9997.9743815			
45	848479	75	13	850505	5	26	9,9997.9743815			
147	930398	57. OI	100	022503	14.01	26	935 39 14 896 39 13			
48	970784	1 15	13	972928	29	26	856 39 12			
	8,5.01079	- 28	13	972928	56	27	817 40 11			
50		4	1130	05207	0	3 27	7764010			
51	12867	6	1 2	13097		27				
53	16726	1 81	114	16961	6	28	65341 7			
154	205514	1 99	114	20700	2 0	3 28	612 41 6			
55	243439	7 2	114		16, 2	28	57042 5			
157	31828	1 20	112	1 22070	7 7	7 20	5 ² 743 4 4 ⁸ 443 3			
57	35522	5	1 1	35778	7 17.0	6 20	9 441 43 2			
55	39180	01	1	39446	6 3	_	9 398 43 1			
M	Co. Sine.	Subs	10	Ar.Co.Ta	Add	10). Sine. DM			



Logarithms of Sines and Tangents. 97										
M	Sine.	Diff. 1	3 Degre	Diff.	Co-Sine.	Dif. M				
-0	8,71.88002	24.038	8,71.03958	24. 105	9,9994.044	6.660				
1	8,72.12040	23.900	8,72.18063	23.972	9,9993.978	659				
2	35946	775	42035	842	911	7 58				
3	59721 83366	645 516	65877	712 - 585	844 776	7 57 8 56				
4 5	8,73.06882	390	8,73 13174	457	708	855				
5	30272	263	36631	333	640	8/54				
7 8	53535	140	59964	086	572	° 53				
1000	76675 99691	016	83172 8,74:06258		503 433					
9	8,74.22586	774	29222	845	CONTRACTOR OF THE PARTY OF THE	6.950				
11	45300	655	52067	725	293	7.149				
12	08015	538	74792	608	223	048				
13	90553	420	97400	492	081	1 47				
15	8,75.12973 35278	191	8,75.19892	377		1 46				
16	57469	077	64531	150	9,9992.938	1 44				
17	79540	21.966	86681	038	865	3 43				
	8,76.01512	854	8,76.08719	818						
19			30647	100000		-				
20	1 22	636 528	52465	710		440				
21		422	74175 95777	497	The second second second	438				
123	8,77.09697	317	8,77-17274	391	424	4 37				
24	31014	212	38665	287	349	5 36				
25		0.000		184	274	5 35				
26	73334	006	81136			100				
28	8,78.15244	804	23199	880	046	1 1338				
29		705		782	9,9991.969					
30	56753	606	64861	683	892	730				
31	77359	508	85544	586	815	7 29 8 28 8 27				
32	97807	316	8,79.06130	490		8 22				
33		220			580	926				
135	58814	127	67313	200	501	9 25				
136	78941	033	87510	113	422	924				
37	98974	19.941	8,80.0763	021		8.023				
39	38,80.1891	759		830						
40		_	6742		-	-				
41		580	87172	750	020					
14:	9777	492	8,81.0682	573	9,9990.938					
43	38,81.1726	404	2640	48	856	= 17				
14	3666	317	4589	400	774	3 15				
4	5598 7521	140	6529	230		314				
4	7 9436	3 06:	28,82,0383	8 140	529					
14	88,82-1342	5 18.970	2298	4 06:	2 441	1 4 12				
4	9 3240	4 89	4204	6 18.98						
5		9 81	6102		7 18	4 10				
5	7011	2 73 4 65	7992	4 81 73	7 10					
5		5 57	18,83.1747	8 05	6 01	6 7				
15	4 2606	6 49	3613	4 57	89,9989.93	1 6 6				
5	5 4455	7 41	2 5471	2 49	0 84	6 5				
5	6 6296	9 33	7321	1 42		8 7 4				
5	8 9956	4 25	9163 08,84.0997	3 34	8 58	7 6 6 5 7 4 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7				
15	98,84.1774	1 10		* *		6 8				
	M Co Sine	Diff.				Dif N				
1		- 50	86 Degr							

4 Degrees. No. Sine. Diff. Tang. Diff Co Sine. 10 10 10 10 10 10 10 1	Diff IM
THE R. LEWIS CO., LANSING, MICH. LAN	
	8.860
1 53874 17. 953 64554 043 319	959
2 71827 880 82597 17: 969 230	958
3 89707 805 8,85.00566 895 141 48,85.07512 733 18461 822 052	957 956
5 25245 660 36283 7519,9988 962	9.055
6 42905 588 54034 679 871	154
7 60493 517 71713 608 780 8 78010 447 89321 538 689	1 53
1 2006 20 1	1 52
9 95457 3708,86,00859 408 598 108,86,12833 306 24327 398 506	250
11 30139 237 41725 330 414	2 19
12 47376 169 59055 262 321	348
13 64545 101 76317 194 228	3 47
14 81646 034 93511 127 135 15 98680 16. 966 8,87-10638 061 041	3 46 4 45
168.87.15646 000 27099116.9959,9987.947	444
17 32546 826 44694 020 853	4 43
18 49381 769 01023 864 758	5 42
	541
20 82854 639 95286 736 567 21 99493 5768,88 12022 672 471	6 40
22[8,88.16069] 512 28694 609 375	638
23 32581 450 45303 547 278	/1371
24 49031 387 61850 484 181 25 65418 325 78334 423 084	7 36
25 65418 325 78334 423 084 26 81743 264 94757 3629,9986.986	7 35 8 34
27 98007 2028,89.11119 301 888	8 33
28 8,89 14209 142 27420 240 790	8 32
29 30351 082 43660 182 691	931
30 46433 022 59842 121 591 31 62455 15. 963 75963 063 492	10.029
22 78418 004 02020 004 202	0 28
33 94322 8468,90.08030 15.947 292	0 27
33 94322 8468,90.08030 15.947 292 348,90 10168 787 23977 889 191 35 25955 730 39866 831 090	1 26 1 25 2 24
35 25955 730 39866 831 090 36 41685 673 55697 775 9,9985 988 37 57358 617 71472 718 886 38 72975 560 87190 663 784 88525 5048,91,92853 697 682	1 25
37 57358 617 71472 718 886	222
37 57358 617 71472 718 886 38 72975 560 87190 663 784 39 88535 504 8,91.02853 607 682	2 2 3 2 2 2 2
39 304 79 32	2,21
40 8,91.04039 448 18460 552 579 41 19487 394 34012 497 475 42 34881 338 49509 443 372	3 20
41 19487 394 34 ⁰¹² 497 475 42 34881 338 495 ⁰ 9 443 37 ²	4 19 3 18
42 50219 285 04952 388 208	417
44 65504 230 80340 335 103	3 20 4 19 3 18 4 17 5 16 5 15 5 14 5 13 6 12 6 11
45 80734 177 95075 282 058 16 05011 1228,02,10057 2200,0084,052	5 1 5 5 1 4
46 95911 123 8,92.10957 229 9,9984.953 47 8,92.11034 071 26186 177 848	5 13
48 20105 018 41303 124 742	612
49 41123 14.966 56+87 073 636	
50 50089 914 71500 021 529	
51 71003 863 8658114.971 422 52 85866 8128,93.01552 919 315	
52 85866 8128,93.01552 919 315 538,93.00678 761 16471 869 207	8 7
54 15439 711 31340 820 099	7 9 7 8 8 7 8 6
55 30150 661 46160 7699,9983,990 56 44811 611 60929 721 881	9 5
56 44811 611 60929 721 881 57 59422 561 75650 671 773	9 5 9 4 9 3
57 59422 561 75650 671 773 58 73983 513 90321 623 663	9 5 9 4 9 3 9 2
59 8849 404 8,94.04944 574 553	11.0 1
M Co-Sine Diff ArCo. Tang. Diff. Sine. I	Diff. M

Logarithms of Sines and Tangents. 99 5 Degrees.										
MI	- Sine.	Diff. 1	Tangent.	Diff.	Co. Sine.	Diff.	M.			
0	8,94.02960	14.416	THE RESERVE AND PERSONS NAMED IN	14 526			60			
1	17376	367	34044	479	332		59			
2	31743	320	48523	431	220	2	58			
3	46063	272	62954	384	109	1	571			
4	60335	226	77338		9,9982.997	2	56			
5	74561 88739	178	91676	291	885 772		55			
	8,95.02871	086	20211	199	660	3	54			
7 8	16957	039	34410	154	546	4	52			
9	30996	13.995	48564	108	433		51			
10	44991	949	62672	063	318		50			
11	58940	903 860	76735	019	204	4	19			
12	72843 86703		90754	13 974	089	5				
13	8,96.00517	771	8,96.04728 18659	886	9,9981 974 859	5	17			
15	14288	726	32545	843	743		45			
16	28014	683	46388	800	626		44			
17	41697	640		756	510	7	43			
18	5250	597	73944 87658	714 672	393		12			
19		553	-		The second secon		41			
21	82487 95999		8,97.01330		158	0	40			
22			28547	545	9,9980.921		39 38			
23	22895	385	42092	505	802	0	37			
24	36280	344	55597	463	683	Q Q	36			
25	49624	302 262	69060 82483	423	563	12.0	35			
26	1 20	220		382	443 323		34			
28		181	8,98.09206	301		1	33			
29		140	22507	262	081	1	31			
30	15729	100		222	9,9979.960	1	30			
31	28829	060		182	838	2	20			
32	41889	021	62173	144			28			
33	54910 67891 80834	12,981	88421	066	593	3	27			
34	80834	903	8,00,01487	027	347	2	26			
35 36 37 38	93737	865	75317 88421 8,99.01487 14514	12.989	223	3 3 4 4 4 4	25 24			
137	8,99.06602	1	1 4/303	1 92	099	4	23			
38	19429	788	40454 53367	913	9,9978.975	4	22			
39	32217		53307	- 070	050		21			
40	44968 57681	713	66243	838	725		20			
41		628	79081	764	599		19			
43	82994	601	9,00.04647	728	347		1000			
44	95595	713 675 638 601 565	17375	001	220		17			
45	9,00.08160	527	30000	055	003	7 7 7 8 8 8	15			
146	20687	492	42721	010	9,9977.900	7	14			
47	33179 45634	455	55340	584	710	8	13			
49	58053	383	80471	513		8	12			
50					Company of the last of the las	-	-			
51	82784	312	19,01.05401	442	323	0	10			
52	95090	278	17903	407	194	13.0				
53	3 9,01.07374	242	30310	372	064	0				
54	31823	207	42082	339	9,9976.933	0	6			
55	43006	173	55021	260	67	1	5			
57	43996	104	79594	237	540	2	4			
57	08239	070		20	408	2	30			
50 M	80309	037	9,02.04033	160	270	2	76 5 4 3 2 1 N			
IM	Co. Sine.	Diff.	Ar.Co.Tan	Diff.	Sine.	Dif.	12/			

110	00	TA	BLE		IV.		-
M.	Sine 1	Diff.	6 Degree	Diff	Co. Sine	Diff	M
-		DESCRIPTION OF PERSONS	1,02,16202	-	9976,143	12.2	50
1	9,01.92346	110.70	28338	02	011	13.3	59
2	16318	36	40441	120.6	9,9975.877	3	58
3	28254	03	52510	3	743	4	57
4	52027	118.70	64548	119.72	609	4	56 55
5	63865	04	88524	40	475 340	4 5	54
7 8	75669	117.73	9,03.00464	09	205	5	53
	87442	40	12373	118.76	069	6	52
9	99182		24249		9,9974 933	_	51
11	9,03.10890		36093	117.82	797 660		50
12	34212	45 13	59688	51	523	7	49 48
13	45825	115.82	71439	20	386	7	47
14		51	83159	116.89		8	46
16	68958	19	94848	58	110		45
17	91966	58	18124	115.97	9,9973.971 833		44
18	9,04.03424	28	29731	68	693		42
19	14852	113.97	41299	37	554	9	41
20	26249	68	52836	07	414	14.0	
21	37617	37	64343	114.78			39
22	48954	07	75821 87270	49	9,9972.991		38
24	71538	48	08680	113.89	850	1	36
25	82786	10	9,05.10078	61	708	2	35
26		111.89	21439	32		2	34
27	9,05.05194	60	32771	03	423 280		33
20	16354 27485	03	55349	112.75	137	140.51	32
30	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	110.73	66595	CONTRACTOR ASSESSMENT	9,9971.993	_	30
31	49661	45	77813	111.09	849	4	29
32	60706	17	89002	62	704	5	28
33	71723	109.88	9,06,00164	33 06	559	5	27
34	82711 93672	61 32	22403		414 268	5	26
36	9,06,04604	05	33482	51	122	6	24
127	15500	108.77	44533	23	9,9970.976	6	23
38	26386	49	55556 66553	109.97	829	7	22
39	37235	22					21
41		67	77522 88465	43 16	535 387		19
42	69619	41	99381	108 89	239		18
43	80360	14	9,07.10270	63	090	9	17
44	91074	100.87	21133 31969	36	9,9969 941	9	16
45	9,07,01761	60	31969	10	792	9	15
47	23055	34	4 ² 779 53563	107.84	642 492	15.0	14
48	33663	105.81	64321	32	342	0	12
40		55	75053	07		1	11
50		30	85760 96441	106 81	040	1	10
15	75832	03	96441		9,9968,888	2	9
5	75832	104. 78		30	730	2	8
12.	96762	52			431	2	6
15	9,08,07189	01	38911	55	278	3 3	5
51	17599	103.76	49466	30	125	3	4
	27966	51	59996	0;	3,9967.971	4	7 6 5 4 3 2
1	38317	02			817	4 5	2
1	Co. Sine.	Diff.	Arcola	57		-	I M
2	, drine	1.00	21 00 14 0	Liff.	Sine.	Wiff.	1

	Logarithms of Sines and Tangents. 101										
M.	Sine.	Diff.	7 Degree	Diff.	Co. Sine.	Diff. M					
	Company of the Compan	and the same of th	THE RESERVE THE PERSON NAMED IN			15.5 60					
1	69221	52	9,09.01869	08	9,9967.507	5 59					
2	79473	27	12277	0.00	196	6 58					
3	89700	03	22660	60	040	6 57					
4	99903	The second second	33020	35	9,9966.884	6 56					
5	9,09.10082	55	43355	12	727	7 55					
310	20237	30		102.88	570	7 54					
78	30367	07	63955	64	412	8 53 8 52					
100	40474	100.82	74219	18	254						
9	50556	59	84460		096						
10	60615	36	94078	101.94	9,9965.937	950					
11	70651	99: 89	9,10.04872	72 48	778 619						
12	80662 90651	99. 65	15044 25192	25	450	16.047					
13	9,10.00616	42	35317			0 46					
15	10558	19	45420			1 45					
16	20477	98. 96	55500		9,9964.977	1 44					
17	30373	73	65557	34	816	1 43					
18	40246		75591	13		1 42					
19	50096	28	85604	The second division in which the second		2 41					
20			95594	68		3 40					
21			9,11,05562	46		3 39					
22		60	15508	23	004	3 38					
23		38	25431	98. 80	9,9963.841	3 37 4 36					
24	99010	College College	01111			435					
25	9,11.08726	72		59	1 2 2						
26	-0	59			- 4	5 33					
27			74724	97. 94	018	5 32					
29	700000		84518	73	9,9962.852	6'31					
30				52	101						
31	66562	63	9,12.04043	30	519	7 29					
32		42	13773	00	352	7 28					
33	85667	21		96. 89	185	7 27 8 26 8 25 8 24					
34	95188	00	33171	08	017	8 20					
35	9,12.04688	94. 79	42839 52486	47	9,9961.849	824					
30	14167	57 37	62112	06	512	923					
37 38	23624 33061	16	71718	95. 85	343	922					
30	42477	93. 95		65	174	921					
39			The second secon	The same in contrast of		17.020					
40		5.1	9,13.00413		0,0050.834	019					
41		34		0	663	118					
43		13	19442	94. 84	492	1,17					
44	89247	92. 92	28926	6	321	1 16					
45	98539	73	38391	44	149	215					
46	9,13.07812	5 ² 33	47839	25	9,9959-977	2 14 3 13 3 12 3 11					
47	17004	33	57260 6666s	03. 86	631	312					
48	The state of the s		76051	193. 66	458	311					
49		The same of the sa		-	- 0						
50	44702	73	94764	47	111	AC					
51	53875 63028	53	9,14,0409	0	89 9958 936	4 98 5 76 5 56 6 3					
52		14	13400		701	5 7					
53 54		902 99		70	580	5 6					
55	903 0	75	31950	5		5 5					
56	99445	50	41210	3:	2 235	0 4					
57	9,14.08501	3	5044	2 1	3	6 3					
57	17537	10	5965	591. 9							
59	20555	89. 98			THE RESERVE ASSESSMENT OF						
M		Diff.	Ar Co Ta	1 117	Sine	\$1 12 / 18 VE					

82 Legress.

10	TABLEXXXIV.									
-	Cana	Diff 1		Diff.	Co. Sine.	Diff. W	7			
M.	Sine.	Diff. 89.79	9,14.78025	The second			00			
O	9,14-35553 4453 ²	61	87182	91.57	9,9957.528	-1-1	9			
2	53493	42	96321	20	172	8 5	8			
3	62435	23	9,15.05441	02	9,9956.993	9 5	57			
4	71358 80262	88.86	14543 23627	90.84	635	9	55			
3 4 5 6	89148		32692	47	456	18.0	54			
7 8	98015	49	41739	30	276	0				
1000	9,15.06864	30	50769	11	095		52			
9	15694	_	59700	1000	9,9955.915	-				
10	24507 33301	87.94	68773 77748	75 58	734 552		50			
12	42076	75 58	86706	40	370	24	48			
13	50834	40	95646	23	188		47			
14	59574	22	9,16.04569	04	9,9954.822	3	46			
15	77000	86.86	13473 22361	70			44			
17	85686	68	31231	52	455	4	43			
118	94354	51	40083	36	271	4	42			
-	9,16.03005	34	48919	-		-	1000			
20	11639	8- 00	57737 66538	87.84	9,9953.902		39			
21	20254	85.99	75322	67	531	6	38			
23	37434	64	84089	50	345	6	37			
24	45998	46	92839	33	159	6	36			
25		30	9,17.01572	00	9,9952 972		35			
27	1 01	84.95	18989	36. 83	597		34			
28	80081	78	27672	66	400	8	32			
20	The second name of the local division in which the local division in the local division			_ 50	221	8	31			
30	97021	44	44988	34	033	8	30			
31	9,17.0546	28	The second second	01	9,9951.844	H 91	29 28			
32	2230	83.94	70840	85.85	46	19.0				
34	3009	78	79423	68	08,	1 0	26			
35	3907	7 62	87993	53	08,	1 0	25			
36	47439 5578	45	9,18,0508	2 30	9,9950.89	2 1	24			
32	6411	13	1300	2 02	510	2	23			
39	7242	82.96	22100	84. 80	31	2	21			
40	8072	1 80		73	1 20	5 2	20			
4	1 8900	1 04		57	9,9949.93		19			
4		5 47 32		5 4	749	3	18			
4	1374	4 16	0439	2 10	35	2 4	16			
14	2196	00	7280	283.9	1 15	8 4	15			
14	3016	081.84	8119	79	99,9948.96	4 4	14			
4	7 3034	53		6.	76	- /	13			
49		37	9,19.0628	7 3	37	7 6	11			
50	6280	2 21	1462	1 1	18	1 6	10			
15	7092	3 06	22939	0	9,9947.98	6				
15:	7902	980.91		182.8	78	8 7	98			
5	0519	5 59		73	59	8	76			
150	9,19 0325	4 45	56050	43	19	8	0			
50	9,19 0325	29	6430	2 28	9,9946.99		5 4 3			
57	1932	14			749	9	3			
		79.99	88941	81.98	399		2			
59 M.	The second secon	Diff.	Ar.Co.Tan.				\overline{M} .			
-	1	-40		1		10.11	12.			



1	10	4-	1 1	ABLE		XIV.	1	- 1
١			Diel	10 Degr	MANUFACTURE STATES	C. C.	Dir.	.
1	1	Sine		Ta ngent.	Diff.		Diff.	-
١	0	9,23.96702	71.59	70569	73. 81	9,9933.515	1000	60
١	I	9,24.03861	46	77939	79 58	068	3	59 58
1	3	18141	34	85297	46	9,9932.845	3	57
١	4	25264	10	92643	35	621	4	56
1	4 56 78	32374	70.98	99978	23	396		55
1	6	39472	86	9,25.07301	11	171		54
١	7	46558	74	14612	72.88	9,9931.946	5 6	53
١	_	53632	63	21912	4	720		52
1	9	60695	51	29200	$\frac{77}{66}$	494	-6	51
1	10	67746	38	36477	54	041	11/31	50
-	11	74784 81811	27 16	43743 50997		9,9930.814	7	49 48
1	13	88827	03	58240	32	587	7	47
M	14	95830	69.92	05472	20		8	47 46
4	15	9,25.02822	81	72692	09	131	0	45
-	16	09803	69	79901	71.98	9,9929.902	9	44
-	17	16772	57	87099	86			43
-	18	23729	46	94285	76 64	444		42
1	19	30675	THE RESERVE OF THE PERSON NAMED IN	01		-	-	41
١	20	37609		08625		9,9928.984		40
1	22	44532 51444		A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1 A 1	32		1	39 38
1	23	58344	68. 89	30053			1	37
1	24	65233	77	37173	10	059	2	
	25	72110	67	44283	70.99	9,9927.827	2	35
	26	78977	55	51382	A CONTRACTOR OF THE PARTY OF TH	1 722	1	34
1	27	85832	44		77 66	362		33
	28	92676		65547 72613		9,9926.895		32
No. of	29	99509						31
1		9,26.06330	00		45			30
1	31	13141	67.88		35	192	1 4	29
	33	26729		0.27.00772	14	9,9925-957	5	28
	34	33507	67	07786	02	722	5	20
	35	40274	56	14700	JUQ. QZ	486	6	25
	36	47030	45	21700	02	250	6	24
ı	37	53775		28702	71	013		23
	38	67232		35733 42694		9,9924.776	7 7	22 21
	39		Name and Address of the Owner, where					20
	40	73945 80647	66.91	49 ⁶ 44 5 ⁶ 5 ⁸ 4	30		0	19
1	42	87338	81	63514	20	9,9923.824	9	18
	43	94010	70	70434	09	585	9	17
-	44	9,27.00680	59	77343	68.99	246	9	1.6
1	45	07348	49	84242	1 00	106	24.0	15
1	46	13997	38	91131	78 69	9,9922,866	0	14
	47 48	27263	28		58	626 385		
1	49	33886	07	11736	49	305		11
		The second secon		18585			_	-
	51		86	25423	28	9,9921,902	2	
	52		76	32251	- Jan 198	400000000000000000000000000000000000000	2	
	53	6024	66	39070	08	175	3	
	54	66811	55	45878	67:99	0.0020 032	3	6
	55	73360	45	52677	89	689	3	5
	50	79911	34	59466	79	445	4	4
	57	86449	25	66245	69	201	3 3 4 4 5	76 54 3 2
	59	92979	1 04	73014 79773	59	9,9919.956	1 5	1
	M	Co Sine.	Diff	Ar.Co.Tan.	Diff.		Dia	_
	-	I Co Other	Dill.	147.CU. 144.	D.J.	Sine.	Diff.	102

	-	Lo	garith	ms of Sine	s and	Tangents.		I	1
	ū	Sine.	Diff	11 Deg:		f Co Sin	. 1)	0.1	N
	-			state. Commissioners Services		40 9,9919.4	and the same of		
1	1	1248	3 8	4 932	63	30 2	20	65	5
	3	1896 2544	1 6	49,29.067		2019,9918.9	27	65	2
1	4	3190	5 5	4 1342	4	2 4	80	75	6
	4 56	3835 4480	9 4	THE PROPERTY.	666.9	39,9917.9	33	75	
1	78	5123	7 2	3350	7	2 7	37	8 5	3
1	9	5766	6 04			4 4 24	89	85:	
1	10	70480	63.99	5348	-	5,9,9916.99	_	9 50	8
-	12	7687	8;	6013	4 3	5 74	1 25.	0 49	
- 1	3	83260 89636	65	7339	5 1			0 48	
1	4	96001	56	8001	1 0	79,9915,99	0	1 46	١
i	6	9,29.02357	47			8 73 8 48	8	1 45	
1	78	15040	27	9980.	4 79	23	6	2 43	I
-	9	21367	08	9,30.0638		73	4	2 42	-
1	0	-	62.98	1951	5		0	340	
	1 2	40291	89	26060	6 43	3 22	5 3	3 39	
	3	46580 52859	79	32600		9,9913 97	7 4	138	ı
12	4	59129	61	4566	16	46	2 5	36	
2	6	65390 71641	51 42	5218 5868	64.98	9,9912.95	7 5	35	
2	7	77883	33	65187	88	69	0 6	33	
2	-	90339		71675 78155	80	1 0	4 6	32	-
3	-	96553	-05	84626	62	9,9911.92	-	30	
3	19	,30,02758	61.95	91088	53	67	0 7	20	
3		08953	87 77	97541	26	15.	4 8	28	
134	4	21317	68	16848	27	9,9910.89	0 6	20	
3	5	21317 274 ⁸ 5 33644	59	23266	09		9 9	25	
137	7	39794	40	23266 29675 36076	Oi	110	0 0	23	
3		45934 52066	32	30076 42468	63.92	9,9909.859	26.0		
4		58189	14	48851			1	20	
41	1	64303	04	55226	75 66	077	1	19	
43		70407 76503	87	61592	49	9,9908.815	2 2		
44	+	82590 88668	78	74299 80640	41	291	2	16	
45		94737	69	86972	32 23	9,9907.766			
47	19.	21,00708	51	93295	16	502	3	13	
48		06849	43	99011	62.98	9,9906,974	4	12	
50		18926	25	12216	90	710		10	
51		24951	08	18506 24788	82	445	5	9	
52		30968 36976		31061	00	9,9905.914	6	7	
154		42975	90	27227	5.71	648 382	6	6	
55		48965 54947		43584 49832 56073	48	115	7	4	
57		60021	74 64	56073	32	0.0004 848	7	98 76 54 3 2	
58		66885	56 48	68529	- 24	580 312	8	1	
59 M	10	Co. Sine.		ArCo Taig	Diff.	Sine.	Diff.		
-	-		-		rees		-	Myse-II	

10	106 TABLE XXIV.										
	61	Dicci	12 Degra		0 0: 1	D:CII					
M	Sine.	Diff.	Tangent.	- continues to the last of the		Diff. W					
	9,31.78789	59-39	9,32.74745	02.08	9,9904.044	20.800					
1	90659	31	80953 87153	61 02	9,9903.775	9 59 9 58					
3	96581	14	93345	83	237						
4	9,32.02495	05	00528	76	9,9902.967	27.056					
	08400	58.97	11872	68	697	0 55					
5	14297	89	11872	59							
78	20186	1000	18031	52	9,9901.883						
9	26066 31938		24183 30327	36	612	2 52 1 51					
-	AND DESCRIPTION OF THE PERSON NAMED IN	-	36463	THE RESERVE OF THE PERSON NAMED IN		-					
10	43657		42591								
12	49505		48711	12	9,9900,794	1 10 2 6					
13	55344			04		3 47					
14	61174	23	60927	60.97	247						
15	66997		67024		9,9899.97						
116	100	06	73113		698						
17			79194 85267		148						
Jig		82	91333		9,9898 87	5 41					
20		Acres (Control of	97391	_							
21		66	9,34-03441	43							
22		58	09484	35	04						
23	13285	50	15519	27	9,9897.76						
24			21546	20							
25			27566	12							
26	Mark Committee of the C		3357 ⁸ 395 ⁸ 3	59.97	9,9896-93						
27	4195		45580	90		7 4					
20	1 222		51570	82	09						
35		56.94			9,9895.81						
3		87	63527	67	53						
13	64749	79	69494	60		4 I 28					
3		3 71		5:	9,9894.97	3 1 27					
13.	76090	9 63		4	69						
3	8176	8 47		31	12	2 2 2 4					
3	0306	5 41	99220		9,9893.84						
3	9306 8 9870	6 32	9,35.05143			2 3 22					
13	9 9,34.0433	8 25		0							
14	0 0996	3 17	16968	0	19,9892.99	5 4 20					
4	1 1558	0 10	22860	58.9	4 71	419					
4	2 2119	0 02	2876	8							
	3 2679	6 87	34650	8							
4	3238 3797	3 75		6	2 9,9891.85						
4	6 4355		5226	5	28	5 6 14					
14	7 4912	4 64	58120	5	19,9890.99						
4	8 5468	8 57	6397	7 4	4 71	1 712					
14	9 0024	THE PERSON NAMED IN	6982	3		4 714					
15	0 6579	4 42		3 2		7 7/10					
	7133	6 34	8148	2	3 9,9889.84	9 8					
15	7687	0 27	87310	1	56						
15	3 8239 8791	7 20		0 0		1 9					
	5 9342	9 00	9,36.04730	57.9	5 69						
10	6 9893	454.90	1053	1 8							
15	7 9,35 0443	2 90	16310	8	1 11						
15	8 0992	2 83	22100	7	4 9 9887.82	9 1					
150	9 1540	5 75	2787	6	7 53						
M	Co. Sine	diff	Ar Co. lang	Wiff.	Sine	24					
-	The second live to the second		94	Contract Contract		and the same of the same of					

Logarithms of Sines and Tangents. 107										
Ad	Class.	1 24 1	13 Degree	Diff 1	Ca Sina	10:0:120				
1 200	The second secon	Liff:	Tang.	ACCOUNT SHOWING	Co-Sine	Diff. M				
1	26349	54.09	39401	57.00	9,9887.239 9,9886 947	259				
2	31810	54			655	258				
3	37264	46	50001	40		257				
1 4	42710	40	56641	33	070	356				
5	48150	32	62374	20	9,9885.776					
1117		25		19	482 188	4.54				
7.95	64426	10		06	9,9884 894					
1		04		56.99	599					
10	75240	53. 97	90937	92	303	The second secon				
1.3	80637	99	96629	86	008	5.49				
13	80027	7 82	9,37 02315		9,9883 712					
1		76		73	415	747				
1	9,36 0215	61	1933	50	9,9882 821	7/45				
11	0751	50	2499	53	523	844				
1	12870	47	3064	40	225	9431				
1	1821	7 41			9,9881.927					
19		8 34								
2	The state of the s	2 27		3 27	329					
2 2	W. 7111-161			20	9,9880 729	30. 639				
2	M 5 5 5 5									
2	4 5015	8 00	7003	0 01	128	1 36				
2	5 5545	8 52.91	7563	1 55.94	9,9879 827	35				
1.00	6 6075	0 86	200	88		2 34				
	7 6603 7131			3 75	0.0878 021	2 33 2 32				
1000	9 7131	7 6	9796	68	9,9878,921	331				
	8185		9,38 0353		315	The second second				
3	1 8711	1 5	2 0910			3 29				
13	2 9236	3 4		5 59	9,9877.708	4 28				
3	3 9760	8 3	2020	5 43	404	4 27				
3	49,37 0284	7 3	2 257.4 5 3128	8 37	9,9876.79	5 26 5 25 6 24				
2	6 0807	9 2	9 3681	6 2	488	624				
13	7 1852	3 1	2 4234	0 1	18	0 23				
3	2373	5 0	5 4785	8 1:	29,9875.870	0 22				
3	2894	051.9	9 5337	0 00						
4	3413	9 9	5887 6 6437	6 00	26	7 20				
4	3933		6437	6 54 9	9,9874 95	719				
	4451	7	6986	6 8	339	8 17				
	4960 14 5480	58 6	7535 8083	7	021	8 6				
1	5 000	344 0	0 8631	2 6	9,9873.72 41 10 19,9872.79	2 915				
- 4	6510	5	3 9178	1 6	3 41	3 914				
1	17 7034	47 4	9724	4 5	10	331.013				
1	18 7540 19 806	93 4	09,39.0270	1 4	19,9872.79	3 012				
	19 806	50 0		The Person Name of Street, or other Designation of the Person of the Per		A STATE OF THE PARTY OF THE PAR				
-	50 8576 51 908	04 2	1 1350		9 9,9871.86					
	51 908 52 960	15 1	2440	66 2	7 54	9 1 8				
-	539,38011	20 0	2980	3 2	0 23	6 2 7				
1	54 062	37 0	353	13 1	419,9870.92	6 2 7 4 2 6 1 3 5 8 3 4 4 4 3 0 4 2				
-	55 II2	20150.0	9 461	27 0	9 61	8 3 5				
-	56 164	34	9 401	38 53.9	7 9,9869.98	4 4 1				
-	57 215 58 266	05	569	35 0	67	0 4 2				
-	59 316	82	70 623	26 8	67 15 35	6 4 1				
1	M Co Sine					Diff. M				
	-	-	76 Des							

	10	8	T	ABLI		XIV.		1
No.	201	0:	I Dia	14 Deg		1 C. C.	10:01	
	M	· Committee of the later of the		Tangent.	Diff.	Co Sine.	Diff	
		9,38.36752	50.03	73080	53.7	9,9869.04		50
	2	41819	51	78463	6	410	21	59
		51924			6			57
	3 4 5 6	56969	39	89191	56	9,9867-778	1 6	56
	5	62008	32	94547	40		7	55
	100	A CONTRACTOR OF THE PARTY OF TH	27		44	144		54
	7 8	72067	14	10578	32	509		53
	9	The state of	08	15910	27		8	52
	10	-	of said other			9,9865.872		50
	11		49.95	26558	15	553		49
	12	97100	90	31873	00	233	32.0	48
	13	9,39.02096	83	37182	04	9,9864.91		47
	14		72	42486	52.98		0	46
	15	12057	65	53076	92	9,9863.952		15
	17		59	58363	81	630		44
	18	26952	53	63644	75	308	2	42
	119		47	68919	70	9,9862 986	24	1.1
	20	36852					3 4	10
	21		35	79453		340	3 3	105
	22	46729	29	84712 89965	53	9,9861,693	3.3	38
	23	51658 56581	23 18		47		43	7
	25	61499	11	9,41.00454	36	045		25
	26	66410	05	05690	31	9,9860.720	5 3	4
	27	71315	00		25	394	5 3	3
1	28	76215	48.94	16146			63	32
-	29	81109		21366		9,9859.742	-	11
-	30	85996	82		08	416		10
	31	95754	76 71	36003	04	9,9858.762	72	9
	32	0.40 00625	64	42191	02	434		7
	34	05489	59	47383	87	106	8 2	6
	35	10348	53	52570	82	9.9857.777	92	25
	36	15201	47	57752	76	449	92	4
	37	20048 24889	41 35	62928 68099	71	9,9856.790	33.02	3
	39	29724	30	73265	60	460	02	
ij	40	34554		78425	55	-	THE REST OF	-
3	41	39378	18	83580	49	9,9855.798	11	
I	42	44190	12	88729	45	467	11	8
	43	49009 53816 58617	07	93874	39	135	2 1	76 5
	44	53810	01	99013	33	9,9854.803	21	6
	45	63413	4/.90	9,42.04146		471	3 1 3 1 4 1	5
	47	68203	90 84	14398	23	9,9853.805	31	27
	48	68203 72987	70	19515	13	471	41	3
	49	77700	73	24628	07	131	41	1
	50	82539	67	29735	03	O OKER KAL	5 1	0
	51	87306	0.2	24828	50.97	400		
10	52	92068 96824	56	39935	91	133	5	98 76
1	53	9,41.01575	51 45	45026 50113	81	9,9851,798	5	7
-	55	06320	39	55194	77	129		
-	55	11059	34	60271	71	9,9850.789	7772	5 4 3 2
-1	571	15793	29	65342 70408	66	45:	7	3
-	58	20322	23	75469	61	11/	91	
1	291	25245	17	dr.Co.Tan		9,9849 776	-	1
1	14.	Lo Sine.	Diff.	ar.Co.Tan	Ditt.	Sinc.	Diff +A	1

1	Log	arithm	is of Sines		angents.	1	9
M	Sine.	Diff 1	15 Degi		Co-Sine.	Loza	
	9,41.29962		0.42.80525	EO. 50	CO-SINE.	Diff.	34
1	340/4	0/	85575	46	9,9049,430	33.0	59
2	20281	01	90021	40	0:0848.760		58
3	44082	46.96	95661	20	420	34.0	57
1 4	48778 53468	84	9,43 00697	30	081	0	
1 8	1 58152	80	10753	20		0	55 54
28	62832	74	15773	16	050	1	53
	07500	08	20789	10	9,9846.717	2	52
10		63 58	25799 30804		-	-	51
11		53	35805	40.05		2	50
12	86148	47	40800		9,9845 696	3	49 48 47
13	90795	41	45791	91 85	004	3	47
14	Maria Company of the	37	50776	81	9,9844.660	4	40
16	04704	26	55757 60733	76	310	4	45
17	09330	20	05704	66	9,9843.971	5	44
18		16	70070	01	281	5	42
19	Annual Property and Publishers and P	The same of the same of		56	9,9842 939	-	41
21	1 2 2 2	04	80587	51		6	40
22	32380	45.94	85538 90485	47	9,9841.895	7	39
23	36974	89	95426	37	548	7	37
24	41:03	84	9,44.00363	32	200	8	393736
25		79	05295	27	9,9840.852	8	35
27	-	73	15145	23 17	503		34
28	59867	63	20062	13	9,9839.805	9	32
20	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN			08			31
130		53	29883	03	105	0	30
31		48 42	34786 39685		9,9838.75	0	29
33		38	44579	94 89	404		27
34	87109	32	49468	84	9,9837.701	2	26
35	91701	27	54352	80	248	2	25
36	96228	17	59232 64107	75	9,9836.996		24
38	05267	12	68978	71 65	290		22
39	09779	07	73843	61	9,9835.936	4	21
40	14286	02	78704	57	582	4	20
41	18788	44.97	83561	52	227		19
43	23285 27777	92	88413	47	9,9834.872		1.
44	32264	82	93260	42 38	517 161	6	16
45	36746	77	9,45.02940	34	9,9833.805	6	15
46	41223 45694	71 67	07774	28	449	6	14
48	50101	62	17427	10	9,9832.735	7	13
49	54623	57	22246	15	377	7 8	11
50	59080	52	27061	11	010	-	10
51	63532 67980	48	31872	06	9,9831 661	8	9
52 53	77980	42	30078	01	302	9	
54	72422 76859	37	41479 46276	4/-97	9,9830,942	36. c	76
55	01202	27	51000	93 88	223	30.0	5
150	85719	18	E 2827	84	9,9829.862	1	4
57	90142		00041	79	501	1	3
59	98973	08	65420 70194	74	9,9828,778	1 2	2 I
\overline{M}		The second line	Ar Co Tong	Diff.		vig.	
-					Cine.	- W- 11	-

10	3		BLE X	XXI	٧.	
		THE PERSON NAMED IN	Degrees.	216	1000 771	-
10	Dille. D	ill.	langent. D	Marie Britain Inch		1.14
09,4	4.03381 44	.039,	15.74964 47	. 66 9,98	28.410 36	- 260
1	07784 43	. 98	79739	011	0541	2 59
2	12182	94	84491	57 9.98	27.691	3 58
9	16576	89	89248	53	328	3 57
4	20905	84	94001	489,9	326,964	4 56
	-25349	79	98749	43	000	4 5 5
6	29723	7:192	46.03492	40	236	4 54
78	34103	69	08232	359,9	825.871	5 53
8	38472	65	12967	30	506	5 52
9	42837	60	17697	26	140	650
10	47197	56	22423	229,9	824.774	650
11	51553	51	27145	18	408	649
12	55904	46	31863	13	041	7 48
13	60250	41	36576	099,9	823,674	7 47 8 46
14	64591	36	41285	05	300	8 46
15	68927	32	45999	00919	822.938	945
16	73259	27	50690 46	. 96	569	944
17	73 ² 59 775 ⁸⁶	23	55386	92	201	9 43
18	81909	18	00078	8719,9	821,831	9 42
19	86227	13	64765	83	462 3	7.041
20	90540	-09	69448	79	092	040
21	94849	04	74127	75,9,9	820.721	039
22	991534		78802	71	351	1 38
	45.03452	95	83473	66 9,9	819.979	1 37
24	07747	90	88139	62	608	1 37
25	12037	85	92801	58	236	2 35
26	16322	81	97459	539,9	818.863	3 34
27	20003		47.02112	50	490	3 33
28	24879		06762	45	117	3 32
29	29151	72 67	11407	419,9	817-744	3 3 1
	33418	63	16048	-	370	4 30
30	37681	58	20685	37	816.995	5 29
31	41939	53	25318	3337	620	5 28
32	46192	49	29947	29	245	5 27
33	50441	45	34572	200.0	815.870	5 26
34	54686	40	30102	16	494	6 25
26	58926	35	43808	13	117	7 24
36	63161	31	48421	080.0	9814.740	7 23
37	67392	26	53029	04	363	7 22
39	71618	22	57633	000	9813.986	7 21
	The second of th	18	THE RESERVE AND ADDRESS OF THE PARTY OF THE		608	8 20
40	75840 80058	13	66829	5.90	229	919
41	8co58 84271	09	71421	92	9812.850	918
42	88480	04	76000	80	471	917
43	92684	00	80592	83 80	COL	38.016
144	96884	41.95	85172	560	9811.711	915
145	9,46.01079	91	89748	71	331	C 14
47	05270	86	94319	600	9810.950	111
48	09456	82	98887	64	569	111
49	13638		0.48.03451	60	187	2 11
the same of	17816	-	08011			-
50	21989	73			9809.805	2 10
51	26158	69	12566	52	423	3
52	20150	10	17118 21666	48	0808 65	
153	30323	56	26210	10. 化二甲基乙烷	,9808.657	3 1
54	34483	50	20210		273	
55	38639	51 48	30750 35286	3019	,9807.889	4
56	42790	40	39818	32	505	
57	46938	43	39010	28		5
	55219	38		24/9	,9806.735	5
59	-	-		-	349	-6
12/2	Lo Sine	Diff.	Ar Co land	Diff.	Sine	Diff, I

1	Logari	thms of	Sines and	CO MARKET	gents.	1111
100	0.	001		rees.	() () () ()	DIFIN
M.	Sine.	D.ff	Tang.	Diff.		COMPANIES AND
1	9,46.59353 63483	26	57907	12	9,9805.963	659
2	67609	21	62419	09	190	758
3	71730	18	66928		9,9804.803	7571
3 4 5 6	75848	12	71433	00	415 027	8 56 8 55
6	79960	09	75933 80430	94	9,9803.639	8 54
7 8	88173	00	84924	80	250	953
100	92273		89413	85	9,9802 860	
9	96369	92	93898	82	471	951
11	9,47 00461	87	98380	78	9,9801 690	39.050
12	08631	79	07332	70	299	148
13	12710	75	11802	67	9,9800.908	1 47
14	16785	71 66	16269	1000	516 124	246
15	20856	63	20731	59 56	9,9799-732	2 45 2 44
17	28985	58	29646	51	339	3 43
18	33043	54	34097	48	9,9798 946	
19	37097	49	38545	42	552	4+1
20	41146		42988	41	9,9797764	4 4 3 9
22	45192		51865	33		538
23	53271	33	56298	29	9,9796.973	537
24	57304		60727		578 182	
25	65359		65152			734
27	69386		73991		The second secon	7 33
28	73396	13	78400	10	9,9794-991	732
29	-	transmiserators in	82816	-		Commence of Street, Street, St.
30	The second second	1	91620	03	9,9793.79	830
31				143.90		9 28
33	93420	92	0481	2 9:	29,9792.99	40.027
134	9741	2 89	0481	4 - 80	599	0 26
35	9 48 0140	84	0920 1358 1796	8 8	19,9791.798 397	0 25 0 24 1 23
37	0030	76	1796	9 7	8 397	1 23
132	1 334	4 (3)	2234 2672	7 7	419,9750.99	1 1 22
39	1731	The second leadings in the leading in the leadin		7	59	221
49	2128	8 65	3109	2 6	19:	2 2 20
41			3545 3982	2 6	9,9789.786	9 3 19
4:	3316	5 52	3982 4418 4853 5289	2 6	FIG OWXX OX	2 2177
4.	3711	7 49	4853	8 5	3 57' 9 17 6 9,9787.77 2 36 9 9,9786.96	9 4 9
4	4106	6 44	5209	0 4	60.0787.77	4 5 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5
4	4501	0 41	5724 6158 6592 7026	6 4	2 36	5 5 3
4	5288	37 8 32	6592	8 3	9,9786.96	0 512
4	5682		7026	7 3	5 55	4 6 1
5	0 607	9 25	7400	(4)	14 14 14 14 18 9,9785-74	01
- 5	6467	14 21	7893 8326	3	09,9705-74	7 7 7 6
5	30 725	2 14	875	66	33	7 7 7
5	41 704	26 09	9190	37	71 5	19 8 6
5	8 803	35 05	902	24	15 1	22 0 4
5	7 881	2 38.9	048	40	109,9783.70	93 9 3
15	8 920	10 9	001	56	049,97828	11 8 5 52 9 4 93 9 3 83 9 2 74 41.0 1
15	9 959	34 9	134	60	00 4	7441.0 1
1	Co. Sine.	· iff.		ng Ui	f. Sine.	14. h

1	I	12	T		B L E		VIX	1.			
	M	92.00	1 /11/0	_	Derees		1.0				
1	-		01/1	-	Tangent.	Diff	Co	Sine.	Di	7-	M
1	1	9,489.982	30.0	20.	512,205	7 9		1653			
1	2	11122 11		01"	635	1 9		1241	1	2	8
1	3	7.491.147	7		513.064	1 8	6	0830		1 4	57
1	4.4	534	5 7	1	492	7 8	3	0418	-	25	56
1	6	9,492.308	3 6	7 0.	921			7.9593		2 5	5
1	7.8	6941	6	0	776	6 7	3 3,97	9180	1	3/5	3
1				5 9,	515,203	9 7	0	8766		4 5	2
1	9		THE REAL PROPERTY.		630	The second named in	-	8353		3 5	1
	0		3 4	- The state of the	516.057	01 2		7938	124	5 5	
1	2	9,494.236	4		483			7523	-	5 4	9
	100	9,495.0046	3		17 335	3 5		6693		5 4	
	4		3	3	7500	6 40	9	6277		64	6
	56	7716	20		610			5860		74	5
1:	7	9,496.1545		04/0/07	19.034	1.9		5444	1	64	4
1	8	9192		3	458	39		4609		8 4	3
1	9	9,497.3010	T.	+	458 8810	33		4191	- 3		1
180	0		11	9,5	20,3052			3772		94	-
	1 2	9,498 0635			7282	26		3354		8 3	9
	3	4442 8245	03		21,1508			2934	42.	3	8
		9,499,2045	37.05		573° 995°			2515		3	31
12	5	5840	93	9.5	22,4166	13	1	1674		3	-
-	6	9633						1253	1	3	4
2	3	9,500.3421	81	9,5	23.2589			0832	1	13:	3
	648	9,501.0987			6795	04		0410		3	
	0	4764			A PROPERTY OF STREET	41.96		9566	_	31	
13		8538	70		9395	04		9143	2	30	3
13	2	9,502,2308	67	0.5	25.3589	90		8720	2	28	3
	3	6075 9838	03		7770	8-		8296	4	27	7
3	4	9,503-3597	59	19,5	26,1966	8 ₄ 8 ₁		7872	4	26	
3	6	7353	52	9,5	6150	77		7447	5	25	
13	710	9,504.1105	48	-	4508 8682	74		6597	3	23	
3	8	4853 8598	45		8682	71 68		6171	5	22	
3			41	9,5	28,2853	-		5745	6	21	
4	0,0	6077	38	9,5	7021	65		5318	7	20	
4		9811	31	3,3.	5347	61		4464	7	19	
43	3.5	3,506.3542	27	1	9505 30,3661 7812	58 56		4036	7 78 8	17	1
14	+	7209	23	9,5	30,3661	52		4036 3608	8	17	
40	515	7,507.0992	20	0	7813 31,1961	48		3179	9	15	1
47		4712 8428	13	9,53	6107	46		2750	-	14	1
148	3 9	,508.2141	09	9,53	2.0250	43 39		1801	2 9	13	
45)	5850	06		4389	37		2321 1891 1461	3.0	II	
50	1	9556 5509.3258 6956	02		8526	33	7.635	1030	1	10	
51	19	509.3258	36.98	9,53	3.2659	30		0599	1		
53	0	,510.0651	95	9,53	4.0916	27		0167	2	98	
54		4343	88	,,,,	5040	249	9,975.	9730	2	76	
55		8021	85		9161	17	3600	88 0	3	5	
50	9	,511.1716	811	9,53	5.3278	15	1	8437	33333	4	
58		5397	77	0.53	7393	3 2		8004	3	4 3	
59	9.	5397 9074 512,2749	75	22.2	5613	08		7570	4	2	
聖	-			Ir.C	The second second second	Dig.	Sin	-	5	M	-
-	-			-		1	-	14	iff.	12	

1-	Log	arithn	s of Sines	-	angents.	1	1,3
M	Sine:	Diff.	The second secon	CONTRACTOR OF THE PARTY OF	CoSine	Diff.	Tu
0	9,512,6419	36.67	9,536.9719	41.02	9.975.6701	13.4	
1	13,50000	04	19,537,3021	40.99	6265	- 6	159
13	3750		7920	97			58
14	19,514,1067	54	6110	90	4957	7	56
1 6	4721	50	9,539.0200	87	4521	6	55
	9,515 2017 6660	46		84 82	4083 3646	0 7	54
1000	1	40	9,540,2453	78	3208	8	52
19		36	6531	75	2769	9	
11	9,516.2936	33	9,541.0006	72 69		9	50
	6569	29		66		9	49 48
13	3824	23	0.542 2812	64	1011		
14	7447	10	6877	60	0570	1	46
16	9,518.1066	13	9,543.0937 4994	57	9,974 9688	1	45
17	8205	00	9048	52	9246	2	43
18	9,519 1904	06	9,544.3100	48	8804	2	42
19	-	-		45	8361		41
21	9,520 2711	35 •99 96	9,545.1193 5236		7918	3	40
22	6307	92	9276	36	7475 7031	3	39 38
23	9899	89	9,546.3312	34	6587	4	37
25	9,521.3488	86		31 28	6142	5	36
	9,522,0656	79	9,547.1377	25	5697 5252	5	35 34
27	4235	76	9430	22	4806	6	33
		72	9,548.3452	19	4359	7	32
30	9,523 1383		7471		3913		31
31		63	9,549,1487	13	3466 3018	7 8	30 29 28
32	9,524.2081	59	9511	08	2570	8	28
33	5640	56	9511	04	2122	8	27
34	9196	53	7523	39. 99	1673 1224	9	26
- 6	60	46	9,551,1525 5524	97	0774	15.0	24
37	9844	43	9521	93	0324	0	23
38	9,526,3387 6927	36	7504	88	0324		22
40	9,527.0463	34	9,553 1492	85	8971	1	21
41	3 97	29	5477	82	8510		
42	7526	27	9459	79 77	8007	2	19
44	7526 9,528,1053 4577	20	7415	73	7615	2	17
45	8097	17	7415 9,555.1388 5359 9327	73 71 68	7162 6709 6255 5801 5346 4891	3	15
46	8097 9,529.1614 5128 8638	14	5359	68	6255	4	141
48	8628	08	9327	65 63	5801	4	13
49	9,530 2146	04	7255	59	4891	5	1-1
50	9,530,2146 5650 9151 9,531,2649 6143	01	9,557.1214		4425	6	10
51	9151	34.98	5171	54	2080	5	100 4
52	9,531,2049	94	9125	52	3523 3067	7	0
200	90331	001	7025	57 54 52 48 46 43	2010	7	6
55 56	9,532.3123	85	0.550.0071	43	2152	8	5
50	0.532 0000	OZ	4914 8854	40	2152 1694 1236	8	4
57 58	9,533.0090 3569	79	2,560,2702	40 38 35 32	0777	3 3 4 4 5 5 6 5 7 6 7 8 8 8 9 9	98 76 54 32
58 59 M	7044	73	9,560,2792	32	0318	9	1
M	Co Sine.	Diff.		Diff.		Diff.	M
100	Name and Address of the Owner, where the Owner, which is the Owner, where the Owner, where the Owner, where the Owner, which is the Owner, whic		70 D			-	ney

I	4_		T	A	BLE 20 Degr		CIV.		
W.	S	ine.	Diff.	. 1			Co. Sine.	Diff.	M
200			1000	_	THE PERSON NAMED IN	302.0	9,972,9858	A STATE OF THE PARTY OF	60
1	כניכ	3986		0	4588	7	9398	0	59
2		7452		3	8515	4	8938	0	58
3	9,53	5.0915			9,562 2439	1	8477	2	57
4		4375	345-	71	6360	391.8	8016	1977	56
5		7832		4	9,563.0278	6	7554 7092		55
3 0	9,53	6.1286	2.4.4.	-4	4194 8107	3	6629	3	54
8		8184	244.	5	9,564.2018		6166		52
9	9,53	7.1629		1	5925		5703	3	51
10	2		343.	8	9831	-	5239	-	50
11	2	8508	3.3	5	9,565.3733	C	- The Total Co.		4.9
12	9,53	8.1943		2	7633	389. 7	4310	5	48
13	- 100	5375	342.	9	9,566.1530	4	3845	5	47
14		8804		6	5424	-00		5	46
	9,53	5653	10.6	2	9,567 3205	388. 9	2914		45
16		0073	341.	6	7091		1981	7	44
18	9.54	0.2489	1	4	9,568 0975	1		7	42
19		5903	-	1	4856	387.	1047		41
	_	THE R. LEWIS CO., LANSING	340.	7	8733	1	0579	-	40
		1.2721		5	9,569.2611	1	0110	9	39
22		6126		1	6484	1	9,971.9642	8	138
23		9527	339	9	9,570.0355	386.8	9172	47. C	37
		2 2926		5	4223		87.03	46.9	36
25	1	6321		2	8088	1024	8233	47.0	
26		9713	228	6	9,571.1951	385.	7762		3:
28	19,54	43.3103 6480	330	4	9666	1202.	6820		33
29		987		0	9,572 352		634		100
-	-	14.3253					5870	-	The last
31		6630) 22/	5	9,573.122	384.			20
32	19,5	\$5.000	5	1	507.		493		12
33		3370	336.	. 9	801		445	3	Bald.
34		674	5	5	9,574 276 660	1	398.	3	26
35	19,5	46.0110	9	2	000	383.	350	9 4	25
36		347 683 47.018	2	0 7	9,575 043		303 2 256 0 208	5 5	24
33	0.5	4-018	335	. 7	427 810		208	1 6	22
20	14	354	2		A MARTINA	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	160	6	31
40	-	680	3 3 3 4	-	810. 9,576 193 576 958 9,577.340 722		113:	of Section 1	zc
4	10.5	48,024	0 224	5	958	5	2 005	1	
A.	1	358	5	2	9,577.340	381	9 017	8	198
4		692	7 333	. 9	722	3	7,9,970.970	1 8	17
44	19,5	692 49.026	6	6	9,578.104 485 866	3	5 922	3 9	16
45		360 693	2	3	485	8	874. 826	9	115
46	-	093	5	0	800	280	826	18	1
4	19:5	50.020	51334	. /	9,579 247 628 9,580,009	300.	770	48.0	13
40	1	359	5	1	9,580,000		730	1	12
_		A COLUMN TO A COLUMN TO THE OWNER.		V		270	624		1000
51	177	31.023	5 33	7	260	13/9	9 634 586 4 538 2 490	1	ONLY OF
53		3550 687		2	9,581,148	8	538	1	98
5 2	19,5	52.018.	4	0	528	2	2 4.90	2 32	17
54		349	330	. 7	907	1	4410	4	
55		680	1	4	9,582,286	378.	71 202	2	
56	9,5	349 680 53.010	5		1	MIC THE	4 345	1 4	
57		3400	349	. 8	9,583.043	3 5	2 297	4	3
	1	670.	1	5	421		345 2 297 2480 7 200	4	
59	1	9999		3		377			4.
18.00	1. Co.	Sane.	1 11	11.	LAr Co. Tang	1.24/1.	Sine.	Ditt.	PAR.

		Loga	ithm	_	A DESCRIPTION OF THE PERSON NAMED IN	-		Ta	nger	nts.		1.	5
4.61	-	Class	Die			grees		· a.	C.	0:	10	. m. s	
11	-	Size.	Diff.	_	-	-	-		_	Sine.	Di	Maria San	M
0	9,	5543292	328.9	9,	584.	1774	37	7.5	9,97	0.151	48		bo
1		6581 9868	1	1		9321	-6	6		054		5	59
3	9,	555-3152		9.	585	3091	37	6.8		006		7.1	57
4		6433	327. 8			6850		5	9,96	9.957	4		56
5		9711	6	19,	586	0624	100	2		908	7	7	55
6	9,	556,2987	2			4300	1	- 1		860			54
78		0439	326.7	1	-87	8147	13/	3. 9		762			53
	9,	557.2796	3-0-1	1"	3-1	5660		3		713			51
10		6060		-		9413		0	1	664			50
11	1	9321	325.8	39,	588	3163	37	4.9		615	8	9	49
12	9,	558.2579	(5		6912		5		566		0.0	48
13		5835		3,9,	589	.0657		4	Ne.	517 468	7		47
14	Q.	,559.233				8142		73.0		419			46
16	1	5580	5	4.9	590	188	1	6	1	37.0		2	44
17		8820)	2		5017	7	4		321	2	2	43
18		,560.2071	323.	9	SER	935	1	1		272		2	42
19		5310			,591			0	-	222	1	_ 3	-
20		8540		3	20	681:		72.7		173			40
		,561.177	322.	29	,592	426		4	130	124		4	39 38
22		823	71 0	5		708	c	c	1	074	2		
24	10	,562.146	2	30	,59	170	513	71.8	9,9	68.97	57	5 5 6	36
25	1	468	5 321.	9		542	3	5		920	2	6	35
26	1	790	4	7	NO.	913	8	3		876	06	6	34
27	9	,563,112	5	49	594	1 285	1	70.8		827		7	33
20		754	6 320	80	,50	5 026	9	10.6	5	777		7	32
20	10	,564.075	4	6	7,37	397	100	0.0 2	-	67	_	- 8	30
31		390	0	3		767	9	3	1	62	81	8	29
32	1	716	3	00	9,59	6 138	03	69.)	57	83	. 9	28
33	3 9	,565.036	3 319.	. 81		507	0		7	52	84	9	27
134	1	356 675	6	5	2.50	877 7-247 616 985 8.354	0	F 4 3	4	47	86	0	26
35	5		8 318.	0	2,29	616	2		2	42	86 9		25
2	7	9,500.313	17	7		985	2 2	68.	8	37 32	85	33	1 23
3	8	632	4	4	9,59	8.354 722	10	N. E.	5	27	84	1.0	1 22
30	9	950	180	1		722	51		3	22	83	-	221
4	0	9,567.268	9 317	. 9	9,59	9.090	180	,	0	17	81		2 20
4	1	586	100	0		458	80	367.	9	12	79	-	2 19
4:	2	9,567.268 586 904 9,568.221	17	3	0.60	0.10	17		4		77	1 - 1	318
4	3	538	37 316	. 8	4,00	56	17		20.	967.97	71	1.0	416
444	-	OL		5.78		() 7		TELES.	9"	92	07	117	
4	6	9,569 17	21	2	9,60	11.29	58	114	7	87	63		5 14
4	78	48	13	0	06	00	25		5 3 0		58		51:
14	8	9,570.12	00	. /	9,00	_ 39	52		0		153		61
	9	12	==	5	-			365.	-		41	_	610
15	0	43. 751 9,571.06 38	06	0	9,60	3.12	71	202.	6	6:	235		
15	2	9,571.06	56,314	. 6		49	27		4	5	728		7
15	3	38	02	4		49	81	111111	2	5:	221	137	778889990
15	973	UU	40	100	10.0	04.22	33	364.	9	4	713		0
		9,572.00	26 313	5.9		58	20	TRI	7	9	205		0
15	0	62	26 62	2	0.6	95	74	1	7 5 3 0	3	697		9
15	56 78	94	95	1	19,0	05.31	17		0	2	188	51.	Section 2 and
13	9	9,573.26	26 31:	2.8	9,6	06.04	157	363	9	2	169		0
15	M	Co. Sine		1000	100	Contract of the last	.0.0	100					f.

1	6	TA		XX	XIV.	
-	C 4224		22 Degrees.	10:0	1.0-10	4000 000
M		Diff	a hoh sooh	260 6	Co. Sine.	Diff. M
0	9,573-5754	312.0	7732	303 0		
2	9,574 2003	O	9,607.1366	1	The second second	2 58
3	5123	311.7	4997	0	0125	1 57
4	8240	0	9,608.2254	362.7	9,966.9614	
16	9,575-1356	0	5880	3	91c1 8588	3 55
17	7578	310.7	9503	1	8075	3 52
8	12021 1	5	9,609 3124	361.8	7562	4 52
1	3790	2		-	7048	
11		309.9	9,610.0359	4		
	9,577.3088	5	3973 7586	3	The second secon	
13	6183	2	9,611,1196	360.8	4987	6 47
14	9275	208 9	4804 8400	1	4471	7 46
16	9,578.2364	1 5	0 612 2010	1	100000	
117	8535	I	5615	359.0	3437	7 44 8 43
18	9,579-1616	307.9	9214			8 42
15	A STATE OF THE PERSON NAMED IN COLUMN 1	-	9,613.2812		Commence of the last of the la	941
20	9,580.0845	3	9,614.0000	3	1,365	9'40
22	3017	306 0	3501	358 9	2006	
23	6986	306 9	7180	6	9,965,9806	1 37
	19,581.0052	4	9,615.0766	5	9285	1'30
25	3116	305.9	1 2 2 2	3	8704	1 35
27	The second secon	303.9	9,616.1514	257.0	8243 7721	2 34
	9,582.2292	3	5093	6	7.199	2 32
29	5345	_		4	100000000000000000000000000000000000000	4'31
30	8397	304.8	9,617.2243	2	6153	3 30
32	9,583,1445	4	5815 9385		563c	4 29
33	7535	1	9,618.2953	350. 0	510t 4582	4 28 5 27
34	9,584,0576	303.9	0519	4		5 26
35	3615 6651		9,019.0083	2	3532	5 26
36	9685	4	3645	0	3006 2480	624
38	9,585.2716	302.9	9,620.0762	355-6	1953	7,23
39	5745	6	4318	4	1426	721
40	8771	4		1	0899	8 20
41	9,586.1795		9,621.1423	0	0371	810
43	7835	301 9	4973 8520	354-7	9,964.9843	918
44	9,587.0851	4	9,622.2066	3	8785	916
45	3865	1	5609	i	8256	53.0,15
46	6876 9885	300.9	9,623.2690	0	7726	114
48	9,588,2892	4	6227	353.7	7195	O 1 3 2 1 2
49	5896	1	9763	3	6133	1,11
50	8897	0	9,624 3296		5602	3,10
	9,589,1897	299 6	6827	352.9	5069	2, 9
52		5	9,625.0356	8	4537	~ 1
54	9,590,0880	298.0	7409	5	4004 3470	4 7
55	3869	7	9,626.0932	2	2937	5 5
56	6856	5	4454	351.9	2402	4 4
57	9,591,2823	2	7973	8	1868	
59		297.7	9,627.1491	5	1332	5 2
M	Co. Sine		Ar. Co.Tan			Liff M
-	-	4.	67 Degre	D.	Oliver 1	The state of

-	Logar	rithm	of Sines o		ingents.	117
07	, stre.	Diff.	23 Degri		Co Sine.	101111
0	9,591.8780 9 592 1755 4728	297.5	9,627 8519	351.2	9,964 0261	3.650
1	9 592 1755	3	9,628.2031	350 9	9,963.9724	7 59
3	4728 7608	296 8	9048	5	9187 8650	7 58
1 4	19,797 0000)	3, 3, 3 3 3	4	8112	7 57 8 56
5	3631	3	6057	1	7574	8 55
7	6594	205. 8	9,630 3058	340 8	7036 6496	
8	9,594.2513	6	6556	6	5957	952
9	5469	3	9,031 0052	3	5417	54.051
10	8422	204 0	3545	2		050
12	9,595,1373 4322 7268	-94 9	9,632,0527	348. 8	4336 3795	1 49
1 * 3		2.5	7.77		3253	2 47
	9,596.0212	202 0	9,633.0985	4 3 0	2711	2 46
15	3154 6093	7	4468	0	1625	3 45
17	9030	5	7948	347.8	1082	3 43
	9,597.1965	2	9,034 1420	7	9,962 9994	442
19	7877	202. 7	8378	2	The second secon	441
21	0.508.0754	5	0.015.1800	1	9449 8904	5 40
22	3679	3	5321	340 9	8358	638
23	0002	201.8	9,636 2257	5 3 1	7812	6 37
24	9,599-2441	6	5722	3	6719	7 35
26	5357	3	9185	1	6172	7 34
27	9,600.1181	200.0	6106	245.2	5624 5076	8 33 8 32
20	4000	7	95031	6	4527	9,31
30	6997 9901 9,601.2803 5703	4	9,638.3019	4	3978	930
31	1000	2	6473	2	3428	5.0 29
32	5703	289.7	9,639 3375	344.8	2878 2328	0 28
1341	0000	31	00231	U	1777	1 26
35	9.602 1495	30	37:4	5	0674	1 25
36	7270	288 8	7156	2	0122	2 24
38	9,003 0100	6	9,641 0597	343 9	9,961 9569	3 2 2
39	3952	4	4030	7	9016	3 21
40 41	5936 8817	287.00	7473	5 4	8463 7909	3 20
42	9.604 1696	7	4342	1	7355	4 18
43	4573	5	7773	0	6800	5 17
44	9,605 0320	0	9,643.1203	342, 8	5689	516
46	3190	286.7	8057	4	5133	614
47	6057	0	9,644 1481	2	4576	613
48	8923	3	4903 8324	341.9	3463	811
50	4647	-	9,645.1743	7	2004	810
151	7500	6	5160		2346	9 9 8
52	9,007 0302	4	8575 9,646,1988	3	1787	9 8
53	3216 6068	0	5400	2	0668	56.0 6
55	8918	284 7	8810		8010	0 5
56		16	9,647.2217 5624	7	9,960,9548	0 4 1 3 1 2
57 58	7454	30	9028	4 3	8426	1 2
59	9,609:0294	28319	9,648.2431	0	7864	2 1
M.			Sr Co. Tan	Diff	Sine.	Diff M
250	White State		66"Degr	105	PICE TO SHA	-

118 T	ABLEXXX	CIV.
M Sine. Diff. 1	Tang n: Diff.	Co Sine. Diff. M
ALTONOMIC SECTION AND ADDRESS OF THE PARTY O	Company of the last of the las	The second secon
	9,648 5831 339. 59	6739 3 59
2 8803 2	9.649.2628 5	6176 358
39,610,1635		5612 457
4 4465 282.8	9,650.2809	5048 456 4484 455
1 60.011.0118 3	0199330.0	3919 5 54
2041 1	9587 7	3354 553
20 0	9,651.2974 5	2788 652
9 8580 7		
109,612,1397 4	9,652.3123	
12 7023	6503 337. 8	0520 848
12 7023 13 9833 280. 8	9881 6	0.050.0052 847
1.443,013.404		93 ⁸ 4 846 8815 945
15 5446	6631 3	8815 945 8246 944
117 0.614 1051 279.	3375 336. 9	7676 57.043
18 3850	6744 8	7100 042
19 6647	4 9,655.0112 5	6535 141
20 9441	3477 4 6841 3	5964 140
21 9,615.2234	8 9,656.0204	5393 139 4821 238
23 7812	3564335. 9	4248 3 37
24 9,616,0599	3 6923 7	3675 3 36
25 3382	1//- 1/	3102 3 35
26 6164 27 8944 277	0 3636 3 7 6989 2	2528 434 1954 433
28 9,617,1721	7 6989 2 5 9,658.0341 1	1380 432
29 4496	4 3692334.9	0805 531
30 7270	1 7041 6	0229 630
31 9,618,0041 276.		9,958.9653 629
32 2809 33 5576	7 3733 3 5 7076 2	8500 727
34 8341	20,660.0418	7923 7 20
1350,619 1103	1 37583333.9	7345 825 6767 824
36 3864 275	8 7097 7	6767 8 24 6188 9 23
37 6622 38 9378	6 9,661.0434 5	5609 923 5609 922
399,620,2132	2 7103 1	5030 921
40 4884	00,662.0434 1	4450 58. 0 20
[41] 7634 274.	8 3765 332.8	3869 1 19 3288 1 18
429,621.0382	5 7093 7	3288 1 18 2707 1 17
43 44 5871	4 9,663,0420 5	2125 216
45 8012273.	9 7069 2	1543 2 15
[40]9,622.1351]	7 9,664.0391 0	0961 214
1471 4088	6 3711 331.9	9,957,9794 4 12
48 6824 49 9557	3 7030 6 09,665.0346 6	9210 411
509,623.2287 272.		The second secon
51 5016	7 6075 3	8041 5 9
52 7743		8041 5 9 7456 5 8 687c 6 7 6284 6 6
53 9,624,0468	2 3598 330,,9	6284 6 6
54 3190 55 5911271.	8 9,667.0214 5	5697 7 5
56 8629	8 9,667.0214 5 7 3519 4 4 6823 3	5110 7 4
570,625 1346	7 3519 4 6823 3	8626 410 8041 5 9 7456 5 8 687c 6 7 6284 6 6 5697 7 5 5110 7 4 4522 8 3 3934 8 2
58 4060	2 9,668.0126 0	
59 6772	3426 329. 9	3346 8 1 Sine. Diff. M
M Co Sine Diff	Ar Co.Tan. Diff.	oine. Digi-m

65 Dig rees.

			of Sines and	NAME OF TAXABLE PARTY.		119
W.	Sine.	Diff.	25 Deg	rees.	Co Sine.	Di #IM
100	TELEPHONOLOGIST - A	AND REAL PROPERTY.			9,957.2757	COLUMN TWO STORY
1	9,626.2191	6	9,669.0023	6	2168	959
2	4897	. 4	3319		1578	59.058
3	7601	2	6613	3	0988	057
	9,627.0303	260 8	9906	1 28 0	0397	1 56
5	5701	6	6486	520.9	9,956.9806	
7	8397	3	9774	6	8623	1 54 2 53
8	9,628.1090	2	9,671.3060	5	8030	
9	3782	THE REAL PROPERTY.	6345	3	7437	351
10	6472	268.8	9628	2	6844	350
11	9,629,1845		9,672,2910	327.8	6250 5656	4117
13	4529		9468	7	5061	448 547
14			9,673.2745	5	4466	5 46
15	9890	8	6020	4	3870	645
	9,630.2568	5	9294	2	3274	
17	5243 7917	4 2	9,674.2566	326.9		
10	9,631 0589	266.0	9105	7	1483	742
20			9,675.2372	6	0886	
21	5926	5		1 2 7 4	0287	939
22	8591	4	8902	2		8 38
800	9,632 1255	1	9,676.2165		9089	60.037
24	- 3916 6576	25- 0	5426 8686	325.8	2800	59.935
26	9233	6	9,677.1944	7	7289	1 34
27	9,633,1889		5201		6688	1 33
28	1 41	1 2	8455	3	6087	1 32
29		_	9,678,1709		5485	
30	9844	204.7	4951	0	7	
32	9,634.2491	2	9,679.1460	324.9	3676	2 29 4 28
33		2	4708	1		1 100000
34	9,035.0422		7953	5	2460	4 20
35	3002	263.7	9,680,1198	2		5 25
36	5699	1	4440	323.9	1259	5 24
37	9,636.0969	4	9,681.0921	3-3.9		623
39		1	4160	É	9,954.9441	621
40	6231	262.8	739	- 6	8834	720
41	8859	3	9,682.0632	3	0227	7,19
	9,637.1484		3869	3	7619	818
43		1	9,683 0328	122.0		
45	9351	1201.	355	322.0	5791	915
46	19,638 1959		678		5184	914
47	4585	1	19,684,001			61.0 3
45	7199	. 13	B230		3963	112
49	0.630.71	250	A STATE OF THE PARTY OF THE PAR		1 227	-
51	5030	260.	79,685,290	321.0	THE RESERVE AND A SECOND PORT OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERSON NAMED IN COLUM	110
52			6120		1517	
53	10,540 024		2 023	21	690	
54	284	+	1 9,686.255	3	0201	
55	544	259-	576		9.953.967	
5	804.		5 9,687 219	707.00	906	
	323	-	3 540	320.	783	5 5
153	340					

64 Legrees.

1	12	0	T		LE		XV.	I.		
1	_		1.437.00	10	6 Deg	D. C.		+		a.z.
1	0)		Diff.	141	gent.	11/1	-	o ine.	Di	1 - W
	0	9,641.8420	0 258.	919,08	5023	320.5	9,9	5985	01.	5,60
1	2	9,642.100	5	6	8227	3		5360	0.0	7 59 6 58
1			2	3,9,68	9.1430	1		4751		8 57
1	4	876	5				1	4134		756
11	3 4 5 6	9,643 134	7 257.	80.60	7831	319.	2	3515	200	955
		4.		6	4226			2278		8 5 4 9 5 3
1	78	908			7422			1658	62.	052
	9	9,644.165	4	2 9,69	1.0616	3		1038	0.0	051
1	10	422 679	6	0	3809	1		0418		050
1	1.1	679	6 256.	9	7000	318. 9		52.9797		1 49
	12	936	5	5,09	3378	7		9175	0.3	2 48
1	14		6	5 2 1	6565	5		7931		2 47
1	15	705	8	1	9750	4	1902	7308		3 45
	16	9610	9,255.	9,9,69	3.2934	9	1302	7308		3,44
1	17	9,646.217		5	6117			6061		443
	19		2	10.60	9298		1	5437 4813		442
	20		Personal Property lies	Til Section 1	The State of the S		-	4188	-	540
1	115	9,647.239			5656 8833 5 2009 5183 8355	7 6		3562		639
	22	4945	1254	19,69	5 2009	4 2 2		2936		6 38
12	:3	749	1		5183	2		2310		6,37
		9,648.003	1	60	8355	0		1683		36
12	5	2582		19,09	4697			1055		35
	7	7665	253.8	3	7865	7	0.05	1 9799	1	33
12	8	9,649.0203	7	9,69	7.1032	6		9171	. 8	33
	9	2740	4		4198	5		8541	63.0	31
13	0	5274	3	0 60	7363	3		7912	62.0	30
13	1	7807	0	9,09	3687	1		7282	63.0	29
13	3	2868	252.7		6847	315 0		6651		27
1	4	5395	5		0000	8		5389		26
13	5	7920	4		3164	6		4757	2	25
13	619	,651.0444	2		6320	4	Pod	4124		24
3	8	2966 5486	251.8	1	9474	4 2		3492 2858	2	
30	او	8004	7	337-	5780	0		2224	4	
4	0,0	,6520521	4		8930	0		1590	4	more.
1	1	3035	3	9,701	2080	314. 7		0956	4	19
4:	2	5548	1		5227	7		0320	6	18
4:	10	,653.0568		0.703	8374	5	9,950	09685	6	17
114	1	3075	6	9,702	4663	4 2		9049	7	15
146	1	5581	3	3 5	7805	1		7775	7	14
147		8084	2	9,703	0946	0		7138	7 7 8	13
48	19	3086	249 8		4086 3			brool	196	12
49		THE RESIDENCE IN COLUMN 2 IS NOT THE OWNER, NAMED IN		0.504	7225	7		5861	9	11
50	1	5584 8081	7	9,704	3497	5		5223 4583	4.0	10
52	9,	655.0575	3		6632	3		3944	3.9	9
53	1	3068	1		9765	2		3303	4. 1	76
54	1	5559 2	48.9	9,705	2897	0		2663	0	
55	0	656,0536	122.0		9156	12.9		2022	1	5
57	7,	3021	5	9,706.	2284	6		1380	2 2	4
58	0	3068 5559 8048 656.0536 3021 5505	2		5410	5		0095	3	3 2
34.	0	7907	1	231	8535			.9452	3	1
M	(Co Sine.	Liff.	ArCo		Liff.	Si	ne.	Diff	M
				63 1	Degrees	The second		A COLUMN	1	-

DIE VVVVII

_	Logar	rithms	of Sines a		ngents.	121	
MI	Sire.	1) ff.	27 Degre	Diff.	Co Sine.	Diff M	1
0	9,657.0468	247.8	9,707.1659	312.2	9,949.8800	64-3 60	o
I	2946	7	4781	1	8165	4 59	-
2	5423	5	7902	0	7521 6876	4173	8
3	7898	3	9,708,1022	311.9	6230	6 50	6
4 5 6	9,658.0371	c	7258	6	5585	5 5 5	
6	5312	246.8	9.709.0374	4	4938	7 54	4
	7780	6	3488	3	4292	6 53	
7 8	9,659.0246	4	6601	2	3645	7 5	
9	2710	3	9713	1	2997	8 51	-61
10	5173	100	9,710 2824	310.9		8 50	_
11	7633	0	5933	8	1700	949	
	9,660.0093	245.7	9041	6	0402	947	
13	5005	4	5254	4	9.948 9752		
14	7459	2	8358	3	9101	145	5
16	9911	0	9,712,1461	1	8450	E 44	4
	9,661.2361	244.9	4502	0	7799	114	2
18	4810	7	7662	309.9	7 47 6495	2 4	1
19	7257		9,713 0791	- 0	-	3 40	-
20	9701	3	3859		5842	3139	
500	9,662 2145	0	9,714.0051	3	4535	413	
22	7026	243.8	3145	2	3881	437	7
23	9464	6	6237	2	3227	4 30	6
25	9,663.1900	4	9329	0	2572	535	
26	4335	3	9,715 2419	308.9	1916	6 34	
27	6768	1	5508	7	0604	633	2
28	9199	242.9	8595 9.716.1682	-	9,947.9947	73	
An or company	9,664.1628			- 3	9289	8 30	0
30	4056 6482	4	47 ⁶ 7 7851	2	8631	8 20	2.7
31	8906	3	9,717.0933	1	7973	8 2	
32	9,665.1329		4014	0	7314 6655	92	7
34	3749	241.9	7094	307.9	6055	66 0 2	0
35	6168	8	9,718.0173		5995	66.02	3
36	8586	. 5	3251 6327		4674	1 2	7
37	9,666,1001	4 3	9402	5 4	4013	1 2	
38	3415 5828	0		3	3352	1 2	
39	8238		5546	1	2689	3 20	0
40 41	9,667.0647	7	5546 8620	0	2027	2 10	9
12	3054	5	9,720.1090	305. 9	1364	3 1	8
43	5459	4 2	4759 7827	8		411	76
44	5459 7863 9,668 0265	2		0	9.946.9372	2 10 3 1 4 1 4 1 5 1 6 1	5
45	2665	239.9	9,721.0893		Charles and	5 1	4
40	5054	239.9	7022	3 2 0	8042	51	3
47	7461	5	9,722.0085	2	7376	61	2
49	7461 9856	_ 4	3147		ASSESSMENT OF PERSONS ASSESSMENT		1
50	9,669,2250	2	6207	205.0	6043	71 7 8 8 9 9 67.0	0
51	4642	C	9266	5	0.0000	7	98 76 54 33 1
52	7032	238. 8	9,723,2324	7	4708	8	0.1
53	9420	7	5381	3 3 2	404C	0	6
53 54 55 56	9,670,1807	5	9,724.1490	1 4	3371 2702	9	5
56	4192 6576	2	4543	2	2032 1362 0692	67.0	4
57	8958		7595	1	1362	0	57.5
57	9,671.1338	237.	4543 7595 9,725.0646	304.		0	1
59	3710	7	3099		Sine.		A
	Co Sine.	Diff.	Ar Co.Tan	Diff.	NINE.	1 1 3 1 11	16

Q Degrees

12	2	TA	BLE		IV.		-1
-	Sine.	Diff.	28 Degr	1 Diff	1 Co. Sine	Diff.	170
1-0	9,671,6093	237.	9,725.6744	304. 7	9,945,9849	57.2	60
1	8468	1 3	9791	6	8677	2	59
2	9,672.0841	1 2	9,720.2837	4	8005	2	58
3	3213		5881	4		3	57
4	5583	236.	9,727.1967	2	5985	3	56
5	9,673.0319			0	5310		55 54
7	2684	3	8048	303.9	4636	4	53
8	5047	1	9,728.1087	7	3960	6	52
19	7409		4124	7		_	51
10	9769	235.9	7161	5		6	50
11	9.674.2128		9,729.0196	4		7	49
112	100 -			3 2		7	48 47
13				0	9 944 9899	8	46
14	9,675.1546	0	9,730.2325	302.9	9220		45
16	3896	234. 9	5354 8383	9	8541	9	44
17	6245	7	8383	7	7862		43
18		5	9,731.1410	t	7182	68. c	
19	9,676,0937		Toronto married to	The same of the same of	6501		41
20	3281	2	7460	4	5.321		40
21	5623	0	9,732 0484	1	5139 4457		39
22	9,677.0302	233.9	6527		3775		37
23	2640			301.9			36
25	4975	4	9.733.2566	8	2409		35
26		3	5504	7	1725	4	34
27	9642	C	1008	5	1041	4	33
28	9 678.1972	232.9	9,734 1010	5	0356	5	32
29	the second second	8	4631	T-SAME	9,943 9671	ASSESSMENT !	31
30	6629	6	7644	2	8985	. 0	30
31	8955		9,735 0656	0	200	71	28
	9,679 1279 3602	3	. 6677	300. 8	6925	5	27
33	5923	0	9085	8	6238	7	26
35	8243	231.7	9,736.2693	6	5549	9	25
36	0,680 0;60	7	5699	6		8	24
37	2877	4	8705	4	4172	60 9	23
38	5191	3	9,737.1709	3 2	3482 2792	69.0	23
139	7504		4712	-		-	20
40	9816	0			2102 1411		19
	9,681 2126	230.8	9,738 0715	299.9			18
42	4434 6741	5	6713	7	0028	2	7
44	9046	3	9710	7	9.942.9235	3	16
45	9,082 1349	2	9,739.2707	5	8643	2	15
16	3651	1	5702	4	7949		14
47	5952	229.8	8696	3	7255		13
48	8250	8	9,740 1689	2 I	6561 5866		12
49	9,683 0548	5	CONTRACTOR OF THE PERSON.		The second second	-	-
50	2843	4	7672 9,741.0662	298.8	5171 4476	5 7 6	0
11	5137	3	2650	3	3779	3	9
53	7430 9720	0	6638	6	2082	6	
54	9,684.2010	228, 7	9024	1.00	2386	7	6
55	4297	6	9,742.2609	5 5 3	1088	788	5
55	6583			3	0990	8	4
5.7	8868	5	8577	2	0291	9	3
	9,685.1151		9,743-1559	1000	9,941.9592	9	2
59	3432	0	4540	0			W/
M	Co. Sine. 1	Diff.	Ar.Co.Tan	Diff.	Sine.	21/1.1	16.1

Logarithms of Sines and Tangents. 123												
M	Sine.	11	off.	Tangent.	Diff.	Co. Sine.	D f.M					
TO SE		_	_	the same of the latest department of the lates	Committee of the last of the l							
1		91	27.9	9,744 0499	29/.5	9,941.8193 7492	1 59					
29	,686.02	67	5	3476	9	6791	1 58					
3	25	42	4	6453	5	6090	1 57					
4	48	16	2	9128	5	5388						
5	70	88	26 0	9,745.2403	3	4685 3982	3 55					
537.45	,687.16	59 ~	26.9	5370 8349		3279						
79		95	6	9,746.1320		2575	4 52					
9	61	61	4	4 290	296.9	1871	451					
10	84	125	3	7259		1166	5 50					
119	,688.06	88	1	9,747.0227		0461	5 49					
12	29	149	0	3194 6160		9,940.9755						
13	52	209 2	25.6	912	1 2	9048						
14		167	5	9,748,208	3	1 -6-	8 45					
	9,689.19	278	4	505	1	692	7 7 44					
17	4:	232	2	801	1	A CONTRACTOR OF THE PARTY OF TH						
18	6.	184		9,749 097		1 7000						
19			24-9	393	1295.8	-	-					
	9,690.0	983	8		2 8	# 1000 CONTRACT						
21	3	231	5	9,750 280	6 6		1 38					
23		721	3	576	2 2	195	1 37					
24	9	964	1	871	6 5	124	8 1 36					
25	9,691.2	205	C	9,751,166	9 3	053	3 35					
26	4		223.8	462								
27		683	6	9,752.052		0						
28	9,692.1	919		347		768	2 431					
30	2	388		6.12	0	696	The second second					
31	5	620		936	8	625	3 5 29					
32	7	851	222.	9,753.231	4	5 553	7 628					
33	9,693.0	080		525 6 820	9		0 27					
34	2	308		THE PERSON NAMED IN COLUMN TO	6	4 410 3 338 1 267						
35 36 37	4	534 758 981		49,754.114	8	267	8 7 25 1 7 24 3 8 23					
35	8	981		2 702	9	0 195	3 0,23					
38	9,094.1	203	Sec.	0 996	9 293.	9 123	4 9 22					
39	3	423	221.	99,755.299								
40	5	642		7 5 878 49,756 17	6	7,9,938.979	6 9 20					
41	7	859		5 878 49,756 17	3	5 907	6 0,18					
42	9,695.0	2288		3 46	3	76	1 17					
43		4501		3 1 75 0 9,757.05	37	7,9,938.975 5, 907 5, 833 4, 76 3, 69 61 1, 54	14 116					
44		6712		09,757.05	20	2 61	92 2,15					
46)	8922	220.	04 24	52		/ 4					
47	6,696	1130		6 63	12/202	0 47	47 3 13 24 3 12					
48		3336		5 49,758 22	13 292.	9 40	00 411					
49		5541	ALC: N		THE PERSON NAMED IN	6 25						
51		7745	*	1 80	70 96	6 25	51 5 9					
157	9,697.	2148	219.	99,759.10	22	5 11	26 5					
152	31	4347		99,759.10	47	1 04	00 6					
54	1	6545		6 68	71	3 9,937.96	51 5 6 26 5 6 74 6 47 7 20 7 8 8					
5	2 - 6-0	8741		5 97	94	21 09	47 7					
5	9,698.	2120		5 39,760.27 2 56 0 85	16	0 74	76 410 51 5 26 5 74 6 47 7 20 7 8					
15	8	5321	1	0 85	57 291	.9 67						
13		7511	1218	99,761.14	76	8 60	35 9					
15	9 1. Si	7511	1210	7177/		F. Sine.	D. F. A					

12	24	TA	B L. E		XIV.	100	_
20	Cina	Die	30 Degr		C. C.	17	-
M		Diff.		Diff.	Co Sine.	-	M
10	9,698.9700	210.7	9,761,4394	291.7	9,937.5306	72.9	00
1 2	4073	5	9,762 0227	5	3847	73.0	58
1 3	6258	3	3142	4	3110	1	57
4	8441	1	6056	3	2385	1	56
5	9,700 0622	217 0	8969 9,763.1881	1	1653	2 2	20
	4981	7	4792	0		2	
8	7158	6	7702	0			52
19			9,764.0612			-	51
10	.70.	3	3520 6427	7	7988		50 49
11	.0	c	9334	5	7254 6519	5	48
1.3	The state of the s	216.8	9,765 2239		5783	6	47
114	9,702.0190	7	5143	4			46
16	2357 4523	6	9,766,0949	2	3574		45
17	6687	2		c		8	43
18	8849	2	6751	C	2098	8	42
119	9,703.1011	215.9		289. 9		8	41
120	The second secon		9,767.2550	8			40
21	1 01	7	5448	6	9,935.9881		39 38
22		3	9,768,1240	5	1 0		37
	9,704.1795			4	1 11	1	36
25	3947	2	7029	3	6918	2	35
26		214.9	9922	2			34
27	8248	1 6	9,769.2814	1	5434 4691	3	33
29		6	8596	288.9	3948	3	21
30	4680	1	9,770.1485	STREET, SQUARE, SQUARE,	Name and Address of the Owner, where	-	30
31	6833	2	4373	8	2459	5	29
32	0975	1		6	1715	4	28
133			9,771.0147		37.7	6	27
134	5394	7		4		6	25
36	7531 9667	6	5917 S801	3	8730	7	24
137	9667		9,772.1684	2	7983	7	23
38	9,707.1801	1	4566	0	7235 6486	PROPERTY OF THE	22
39	3933 6064		9,773.0327	Berton makes	Control of the Contro		20
40	8194	212.9	3200	8	5738 4988		19
42	9,708.0323	7	6084	7	4238	0	18
143	2450	5	8961	7	3488	0	17
44	4575	4	9,774.1838	5	2737 1986		16
45	6699 8822	3	4713 7588	5	1234	2,1	15
147	9,709 0943	0	9,775.0462	2	0482	2 1	3
48	3063	211.0	3334	2	9,933.9729	3 1	12
49	5182	-	6206	1	8976	- 31	1
50	7299	6	9077	286 0	8222		0
51 52	9415	4 3	9,776,1947		7467 6713	5	9
53	3642	1	7685	9	5957	6	7
54	5753	o	9,777.0552	6	5201	6	76
55	7863	210.9	3418	6	4445	6	5 4 3
56	9972	6	6284 9149	5	3688	7 7 8	4
58	4186		7,778 2012	5 3 3 2	2173		2
59	6290	3	4875	2	1415	8	1
Ivi	Sine I	Diff.	THE RESERVE AND PARTY AND PARTY AND PARTY.	Liff.	Sine.	iff. I	VI
-		-	co Degree	,			

	Logo	rithm.	-	_	nd Ta	ingen	its.	126
NA.	Vine 1	Diff.		gent.	Diff	10	Sine. 1	5tt. 11
M_	711.8393	-					3.0656	
19,	712.0495		9,779	.0599	0	9,93	2.9897	9.59
2 7	2596	209.9		3459	285.9		9137/7	6.058
3	4695	7	a const	6318	9	18	8376	1,57
4	6792 8889	7	9,780	9177	7		7616	255
500	713.0983	4		4891	7		6092	2.54
1 160	3077	2		7747	5		5330	253
7 8	5169	1	9,781	.0602	4		4567	35Z
9_	7260	208.9		3456			3804	351
10	9349	- 8		6309	3		3010	
A CONTRACTOR	714 1437	7	0.782	9162	1		1511	548
12	3524 5609	4	13,70	4864	284.9		0746	5 47
13	7693	3		7713	9	9,93	1.9980	6 46
15	9776	1	9,783	3,0562	8		9213	7 45
	715.1857	0	1	3410	8		8 147 7679	8 43
17	3937 6515	20/.0		9104	16.		6911	8 42
19	8092	6	9,784	1.1949	5		6143	8 41
	,746,0108			4794			5374	
2-1	2243	1 3		7638	3		4605	939
22	4316	1	9,78	2 0481		1	3835	
23	6387	1206 5		3323	1000		3065	1 36
12:1	717 0536			9004		2	1522	
26	2594	1 13		6,1844	283.	3 30	0750	
27	4660			4682		9,9	30 9978	2 33
28	6723	1	1	7520		7	920;	
29	8780			7.0357	-	-	8432	The second secon
	,718.0851	205		3193 6028	108.0	5	7658 6883	4,30
31	497	205-	o o	886:		2	6109	
32	7030	0	6 9,78	8.1695		3	5333	6 27
3 1	7030 9080 3,719.114 3190 5240 730 935	6	6	736)	3	4557	6 25
35,9	9,719.114	2	4	7301	1	1	3781	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
30	319		3 9,78	9.019	282	9	2226	8 23
137	720	9	0	302 535 868	2	9	1448	8 22
39	935	0 204	9	868	1	7	0670	8 21
40	9,720 139	148	8 9,79	0.150	8	79,9	29.9891	9 20
41	344	7		433	5	6	911:	78. 0.18
42	549	3	5	716	I	9	833 755	78.018
143	753	1	2 9,79	1 281	1		6779	1,17
44	549 753 958 9,721,162	3	1 3,75	99° 91,281 563 845	545 C	4 3 2	5980	1,15
46	9,721,162	4	0	845	3		520	
47	570	4 203	8,9,7	92,120	0	1	442	1 3,13
47 48	7.7.4	2	7	692	10.0	0	285	411
49		9	5	974 93,256 537 819		-	AND DESCRIPTION OF THE PERSON NAMED IN	-
150	9,722.181	4 8	30.7	974	0	8	128	
51	384 588		3 9,79	537	8	7	050	4 51 8
53	791		0	819	5	6 9,9	128.971	8 6 7
154	994	13 202	9 9.7	94.101	1	6	893	2 6 6
55	7,723.197			382	7	4	814	8 7 5
50	60:	26	6	664	-	4 3	735	1 7
57	80	51	49,7	95 226	58	3	578	
159	9,724.00	75	2	945 95,226 508	31	1	499	14 9
M	Go Sine	. I Di	T. Ar	CoTan	g. Di		Sine.	riff \
-	-	and a second		58 1	Degree	3.	d probably	2000

ST Biggeri.

No.	12	6	T	A B	_		XIV.		-1
0 0,724,2097 202. 1 0,795,7892 281. 1 0,928,4205 78. 9 60 1	1.5	Cine I	Diff	Jano			Co Sine.	Diff	NO
2	- C	01116.	202 1	0.705	7802	281.1	0.028 4205	78.0	50
2	1	4118	0	9,796	0703	0	3415	79.0	50
49,725,0174 5	2	0130	201.0		33,3	280, 9	4000	1 01	00
S	3	12 mar 1 mar 1 m	8			8	1834	1	57
6	4	9,725.0174	5	0.797	1038	7			
The color of the	6		3	31,71	4745	0	9,927.9459		
9 0,726.0240 200.9 3160	17		2		7551			3	53
10		8229	200 0	9,798	2160	4	7073		
11	Person	-	F	-	-	_	The second second		-
12	100		1 7		8767	2		1	
13 8269 4 4370 0 3103 646 14 9,727,0273 3 7170 0 3103 646 15 2270 2 9970 279.9 2306 745 16 4278 0 9,800.2769 8 1509 744 18 8277 8 8365 6 9,926 9913 8 42 19 9,728.0275 69,801 1161 6 9114 941 941 20 2271 6 3957 5 7514 039 1414 041 38 22 6260 3 9546 4 6714 038 38 191 137 25 14267 3 6752 4 6714 038 38 191 137 21 4267 3 6752 4 6714 038 38 1414 039 1414 039 1414 039 1414 039 1414 039 1414 039 1414 038 1414 030 1414 <td< td=""><td>100</td><td>6264</td><td>5</td><td>9,799</td><td>1569</td><td>1</td><td>4695</td><td>5</td><td>48</td></td<>	100	6264	5	9,799	1569	1	4695	5	48
15		the same of the same of	3			100		6	47
16 4278 09,800.2769 8 1509 7,44 17 6278 199.9 5567 8 0711 843 19 9.728.0275 69,801 1161 69114 9411 9411 21 4267 3 0752 4 7514 039 22 6260 3 9546 4 6714 038 23 8253 1 9,802.234c 3 5913 137 25 2234 198.9 7925 1 4310 235 26 4223 8 9,803.0716 0 3507 3367 334 27 611 6 3506 0 2704 333 232 1901 333 28 8197 5 6296 278.9 1901 333 232 333 232 333 1901 333 332 332 333 3444 4661 602 278.9 9925 430 332 430 332 430 342 4704 38681 628 627 769		9,727.0273	3		7170	E-POSE AGAIN		1 -	35-1
17 6278 199. 9 5567 8 0711 843 19 9,728,0275 6 9,801 1161 6 9913 842 20 2271 6 9,801 1161 6 9114 941 21 4267 3 6752 4 7514 0 39 22 6260 3 9,802 234c 3 5913 1 39 5112 136 39 1 39 5112 136 39 1 4310 235 25112 136 2513 25112 136 2513 2704 333 36 2704 333 36 2704 333 36 2704 333 36 2704 333 36 2704 333 36 2704 333 36 36 2704 333 36 36 36 36 36 36 36 36 36 36 36 36 36<		4278	0	9,800	.2760	8	1500	1 1	0.00
18 8277 8 8305 69,920 9913 842 19 9,728,0275 69,801 1161 69114 941 20 2271 69,801 1161 69114 941 21 4267 3 6752 4 7514 638 22 6260 3 9546 4 6714 038 23 8253 1 9,802.234c 3 5913 1 37 24 9,729.0244 9 7925 1 4310 235 25 2234198.9 7925 1 4310 235 26 4223 89,803.0716 0 3507 334 27 6211 3 506 0 2704 33 28 8197 5 6296 278.9 1901 332 28 1165 3 9,804.1873 8 029 1901 332 30 2165 3 9,805.0233 8 029 430 343 32 6129 9 7875 6 28 36 6 28 36 6 28 36 6 28 36 6 28 36 6 28 36 6 28	100	6278	199.9	1	5567	8	0711	8	200
199,720,027, 29,000 3957 5	18	8277	1 8		8365	6		8	42
21	1		-	Total Street		-	-		-
22	1000	2271			3957		7514		40
23		1 6.			9546			1 3	39
24 9,729,0244 25 2234 198.9 7925 1 4310 235 3527 3	10000	0		9,802	.234C	3	5913	1	The Control of the Co
20		9.729.0244	0				100000000000000000000000000000000000000	- 1	36
27					7925	1 22	1		
28	1000	1							
30	128	8197	5		6296	278.9	190	3	
31	129				_	-		5	
32					.1873				30
33 34 9,731.0087 2064 6 5803 4 6261 825 36 6015 49,806.1370 2 4152 1 399 9061 1 6933 1 2218 81.020 9,732.1932 0 9714 9,806.2494 277.9 148 9,733.1768 3 366 7 8974 216 37837 6 8052 7 9,9924.9786 117 887 9803 5,9808.0829 7 9,924.9786 117 887 9803 5,9808.0829 7 9,924.9786 117 887 987 118 9,733.1768 3 3666 7 8161 315 158 169 17 188 189 195 195 195 195 195 195 195 195 195 19	31					1 6	868	5	29
34 9,731.0087	122	8100	197. 8	9,805	.0233	6	787	1 0	27
36	34	0.731.0087	7		3010	4	7060	6	26
39	35	2064	1		5803	4	545	8	1000
39	36	6016		0.806	1370	2	4646	8	
39	37	7080		1	4152		3837	9	22
40 9,732 1932	39	9961	1		6933		3028	9	21
41	- Tropped	0 -22 1025	1 0		9714		The second of th	81.0	20
46	41	3902	190.8		-2494	277.9			19
46	42	7827	1 6		8052	7	9,924.9786	1	
46	43	9803	5		.0829	7	897		16
46	145	9,733 1768	9 3		3606	7	816	3	15
48 7654 09,809,1933 4 5721 412 49 9614 195.8 4707 3 4907 411 50 9,734-1572 7 7480 3 4092 510 51 3529 69,810.0253 2 3277 59 52 5485 5 3025 1 2461 68 53 7440 3 5796 0 1644 7 7 54 9,735.1345 19,811.1336 276.9 0010 7 5 56 5246.194.9 6873 8 8373 8 57 5246.194.9 69,812.2408 6 6734 82.0 1	140	3/3	2	1	0383	5	7340	2	14
58 7195 7 9641 7 7554 9 2 59 9142 69,812.2408 6 6734 82.0 1	47	7654			1933	3	572	4	13
58 7195 7 9641 7 7554 9 2 59 9142 69,812.2408 6 6734 82.0 1	140		195. 8		4707	3	490	4	11
58 7195 7 9641 7 7554 9 2 59 9142 69,812.2408 6 6734 82.0 1	-	9,734-1572	7		7480	3	409:	5	10
58 7195 7 9641 7 7554 9 2 59 9142 69,812.2408 6 6734 82.0 1	151	3520	6		0.0253	2	3277	5	9
58 7195 7 9641 7 7554 9 2 59 9142 69,812.2408 6 6734 82.0 1	152		5	1	5206	1	164	0	8
58 7195 7 9641 7 7554 9 2 59 9142 69,812.2408 6 6734 82.0 1	53	/440	3		8566	0	082	1	6
58 7195 7 9641 7 7554 9 2 59 9142 69,812.2408 6 6734 82.0 1	54		1	9,811	.1330	276.9	0010	7	5
58 7195 7 9641 7 7554 9 2 59 9142 69,812.2408 6 6734 82.0 1	156	3296	0)	4105	8	17,7-3.7.7	9	4
59 9142 69,812.2408 6 6734 82.0 1	57	5240	194.9		0641	-			3
	58	9142	6	9,812	.2408	6	673	82.0	
M Co Sine. Diff. Ar.Co.Tan. Diff. Sine. Uiff. M	M			-			Sine.	Viff.	\bar{M}

Logarithms of Sines and Tangents. 127												
W.	S	ine.	Diff.		Tang.	Diff	Co. Sine	Diff	M			
200	_	6,1088		_	COLUMN TWO IS NOT THE OWNER.	-	9,923.5914	-	-			
1	3,13	3032	.94.	4	7939	5	5093	1	59			
2	-	4976		2 3	.813.0704	4	4272	1	58			
3	1	6918		1	3468	3	3450	2	57			
4		8859		0	6231	2	2628	2	200			
	9,73	7.0799	193.	Ö	8993	1	1805	3	55			
6		4675		6	4516	1	0158	0	54			
7 8		6611		5	7277	275.9	9,922.9334		52			
0		8546		3 9	,815.0036	9	8509		51			
10	9.73	8.0479		3	2795	9	7684	5	50			
II	3,13	2412		1	5554	7	6858	6	ALC: N			
12		4343		0	8311	7	6032	6	48			
13		6273	192.	8	9,816.1068	6))		47			
14		8201		8	3824	6	* 12//		46			
	4.	9.0129	- 8	0	6580	5		8	45			
16		2055 3980		0	9,817.2089	3	1801	83.0	42			
17		5904		3	4842	3	1062	82.9	42			
10	1	7827	-	1	7595	2	0232	83.0	41			
20		9748		0	9,818,0347	1	9,921.9401	1	40			
21	9,74	0.1668	191.		3098	1	8570	1	39			
22		3587		8	5849		7738	2	38			
23		5505		6	8599	274.5		2	37			
24		7421	1	0	9,819 1348		10		36			
25	0.74	9337		4	4096 6844				35			
100	99/4	3164	1	1	9592	1			33			
27		5075		1	9,820 2338				32			
29	1	6986	190.	9	5084	5			31			
30	-	8895		8	7829	1 5	1066		-			
31	9,74	20803		7	9,821.0574	3	0229		29			
32		2710		6	3317 6060	2	9,920.9393					
33		4616		4	8803	3	8555		27 26			
34		6520		3	9,822,1545	2	7717 6878	9	700			
35	9,74	8423 3 0325		1	4286	C	6039	9	24			
27	דויק	2226		0	7026	0	5200	0	23			
37 38		4126	189.	8	9766	273.9	4360	84.0	22			
39		6024		7	9.823 2505	9	3519	1	21			
40		7921		6	5244	78	2678	1	20			
41		9817		5	7981	8	1836	2				
42	9,74	4.1712		4	0,824 0719	6	1		18			
43		3606	- 8	2	3455 6191		9,919.9308	3	17			
44		5498 7390	4	0	8926	4	8464	3	15			
45 46		9280	188.		9,825.1660	4	7619		14			
47	9,74	5.1169		0.00	4394	3	6775	4	13			
48		3050		7	7127 9860	3 3	5929	0	12			
49		4943	-	5	AND RESIDENCE OF PERSONS ASSESSMENT	-	5083	-	11			
50	1	6828			9,826.2592	1	4237		10			
51	RES	8712	1 3	3	5323	0	1 N. W. A	7 8	98			
52	9,74	6.0595		2	8053 9,827 0783	0	2542 1694	F-1000				
53		2477					0845		76			
54		4358	10/.	8	3513 6241	2/2.8	0.018,000	9				
55		8115		881	8969		1	85.0				
57	1 1	9992	- 10	7	9,828,1696	7	8290	0	3			
58	9,74	000	20	5	4423	1		1	2			
59		3743	13	4	7149	5	AND RESIDENCE AND ADDRESS OF THE PERSON NAMED IN	-	1			
		0200	10:4		ArCo Tang.	Diff.	Sine.	Diff	M			

128	TA	Contract to the Contract of th	XXX	IV.	
		34 Degi	rees		
Ale Silver		Tangert.		Co. Si.e.	
1 0 2.747-5617	187. 2	9,828.9874	272.5	9,918.5742	85.2 60
7489	1	9,829.2599	4	4890	2 59
2 9360	-06 0	5323	4	4037	3 58
39,748 1230	180.9	9,830.0769	2	3183	
3009	6	3492	3	1475	
6 6833	S	6213	I	0620	5 54
171 8008	4	8934	0	9,917.9764	6 53
89,749 0562	3	9,831.1654	0	8908	0 52
9 2425		4374		8051	751
10 4287	1	7093	8	7194	7 50 8 49
0148	185.9	9811	8	6336	
12 8007	9	9,832 2529 5246	7	5478 4619	
13 9860		7963	7 6	arho	0 40
15 3579	5	9,833.0679	5	2900	86 0 45
116 5434	3	3394	5	2040	0 44
7287	3	6109	4	1179	1 43
18 9140	!	8823	3	0317	2 42 2 41
199,751.0991		9,834 1536	Interest water	9,916 9455	- 32
20 2842	184.9			8593	2 40 3 39
21 4691 22 6538	7	6961 9673	2	7730 6866	4 38
23 8385	6	9,835.2384	1 0	6002	
24 9,752 0231	4		0	5137	5 36
25 2075	4	7804		4272	5 35
26 3919	2	9,836.0513	8	3406	0 34
27 5761	1	3221	8	2539	7 33
28 7602 29 9442	183.8	5929	7	1673	6 32 8 31
		8636	7	0805	_
30 9,753.1280	6	9,837 1343	6	9,915,9937	Alter
31 3118 32 4954	6	4049	cl	9069 8200	100 100 100 100
133 6790		6755 9460	4	7330	87.0 27
34 8624	3	9,838.2164	3	7330 6460	0 26
35 9,754.0457			100	5589	1(2)
36 2288	1	7571	2	4718	1 44
37 38 5949	182.8	9,839.0273	2	3846	2 23 2 22
39 7777	7	2975 5676	1	2974	321
40 9604		8377	0	1228	
41 9,755.1431	5	9,840.1077	269.9	0354	7
142 3256	4	3776	9	9,914.9470	419 518 517
143 5080	2	0475	9	8604	
6902	2	9174	9 7 8 6 6 6 4	7729	5 16
145 8724	0	9,841.1871	8	7729 6852	715
46 9,756.0544	181.8	4569 7265	6	5976	
47 2364 48 4182		9961	6	5099	0
149 5999		9,842.2657	4	3342	
50 7815	5	5351			810
51 9630	4	8046	5 3 3 3	1584	The second second second
1529,757-1444	2	9,843.0739	3	0704	0 0
53 3256	2	3432	3	9,913.9824	0 7
54 5068		6125		8943	IO
55 6878 56 8687	180.9	9,844.1508	1	8001	2 5 2 4
157 9,758.0495		4199		7179	2 3
58 2302	6	6889	0	6296	1 2
59_4108	5	9579	268.9	4530	3 1
M Co. Sine.	Diff.	Ar.Co.Tan.	Diff.	Sine.	Diff. M
	-	SS Dee		vine.	D.D.F.

1		Log	arith			_	Tangents.	1	29
1	4 64	-	Luia	_	ergees.	10.0	1 0.8		
1		5913	Diff	_	ngent.	268.	Co Sine.	100	-
1	19,750	7717		2 2	495	5	2760		60
1 =		9519		2	764	4	1879		5,59
3		.1321	1	09,84	6,033	2	0989	0 6	57
14		4920	179-	8	570		9,912,921		56
15		6718			8390	1 5			55
1 78		8515		69,84	7.1079	5	7440	8	153
	13.5	2106	1		3760 6444		6551	1	52
10				-	-	-			-
11	E P	3899 5692	3	9,84	8.1810	3		A COLUMN TO SERVICE AND ADDRESS OF THE PARTY	50
12		7483	1		4492		- CONTRACTOR - CON		48
13		9274	178.	2	7174	1	2099	2	47
15	9,761.	2851			9855	1			46
16		4638	6	13,04	5216		9,911 9422		45
17		6424	. 4	1	7896	267.0	8528	4	43
18		8208	4	9,85	0.0575	8	7634	4	42
19	The second second	9992	3		3253	8		5	-
20	9,76z.	3556	1		5931 8608	7	5844 4948	5	40
22	ac T	5337	177.9	9,85	1.1285	6	4051	7	39
23	19 - 18	7116	8		3961	6	3155	6	37
24	9,763.	8894	7		6637	5	2257	8	36
25	9,703.	2447	. 5	0.85	9312	5	1359 0460	0	35
27		4222	4	,,,,	4661	4	9,910.9561	9	34
28		5996	3	1	7335	3	8661	90.0	32
29		7769		9,85	3.0008	2	7761		31
30	9,764.	9540	176.9		2680	,2	6860	1	30
32	91	2080	9		5352 8023	1	5959 5057	2	29
33		4849	7	9,854	1.0694	1	4155		27
34	3	0010	0		3365	266.9	3251	4	25
35	9,765.	0147	5	100	6034 8704	266.8	2348 1444	3	25
27		1911	3	9,855	.1372	200, 0	0539	4 5	24
38	1	3674	2		4041	7	9,909.9634	5	22
39		5436	1		6708	7 8	8728	6	21
40		7197	175.8	0.8=6	9376	6 6	7821	- 7	20
41	9,766	0715	8	3,050	4708	6	6915	8	19
43	F . 1	2473	6		7374		5099	8	17
44	5 1	4229	1/10	9,857	.0039	5	4190	9	16
45 46	201 15	5985 7739	4 3		2704 5368	5 5 4 3 3	3281 2371	9	15
47		9492	2		8031	3	1461	A 100 PER 1997	14
48	9,767.	1244	2	9,858	.0694	3	0550	1	12
49		2996	0		3357	2	9,908,9639	1	11
50		4746	174, 8		8680	1	8727		10
5 I 5 2	25	6494 8242	8	0.850	1341	1	7814 6901	3 3 5	98
52		10000	6	3,-35	4002		5988	3	
54	9,768.	1735	5		6661	266.0	5073	5	76
55 56		5223	5 3 3	260	9321	265.9	4159	4	5 4
57	7	6966	3	9,000	4638	8	3 ² 43 23 ² 7	6	4 3
57 58	3	8707	1		7296	8	1411	6	2
59	9,769 Co S	0448	173.9	_	9954	6	0494	7	1
M	Co S	ine. 1	Diff.	Ar Co	Tang!	Diff.	Sine.	Diff.	M
No.	CHICAGO CO.			-		-	OCCUPANT EXPLOYED	Transition of the	-

Sine. Diff. Tangent Diff. Co Sine. Diff. Moderate Diff.	13	0		T.	A B	LE	XX	XIV	•		-
1	76	-55m	4 1	Diff.		AND DESCRIPTION OF THE PARTY OF		Co	Sine.	Dir.	M
1		The second	-	173.8			_		-9576	91.8	
2 566z 6 9,86z o578 5 68zo 20 57,93 59,770 0868 3 6854 4,980 92. 1 55,53 19,863,1195 3 3138 153 6063 0 3848 2 2216 2 52 19,771 1249 6 119,771 1249 6 4454 1 6370 14,481 12 2976 6 4454 1 6426 4 67,755 14 6426 1 5053 3314 17,09 9,865,1195 19,906,9446 44,91 12 12,772 13,314 17,09 17,702 18 38,92 17,9772 1593 17,09 17,702 18 38,92 17,9772 1593 17,09 17,702 18 38,92 17,9772 1593 17,100 10,100 1		4,709	3925			5267	6	19.5.F	8658	8	50
1	2		5662		- 06	7923	5		7740	8	58
10	3	0	7398	1000	9,80	2232		- 5	5001	200000	57
6	4	0.770	0868	1 3		5887		C. S.	4980	92.1	
S	6	35/10	2601	1		8541	4		4059		
9	7	1	4332	2.00	9,86	3.1195	3		3138		53
10 9522 7 7 9,864,1803 1 9,906,9446 4 49 12 2976 6 4454 1 8522 4 48 1 4702 4 4 4705 4 4705 4 48 1 8522 4 48 1 7 9 14 6 4 6 7 15 6 6 7 16 6 6 7 16 6 6 7 17 1	10.000	8 3		THE STREET		6500			F 12 20 12 10 1	2 1 V V V V	52
11 9,771 1249	1	-	-	The second second	-					The second second	
12	1000	Britain Pales			9,86	4.1803		9,900	.9446	1 1	
13	17-0-3		2976	110		4454	100		8522	4	48
15			4702	4				128	7597	5	471
16			8150	2	9,86		9		5745	6	45
17 9,772 1593 3314 171. 9 9,866.0350 7 2904 842 2907 7 2036 841 200 6751 7 5644 7 1107 940 211 8468 7 8291 6 0,777 93.0 39 22 9,773.0185 5 9,867.0937 6 9,905 9247 0 38 23 1900 4 35.83 5 73.66 136 225 5327 2 8873 4 645.4 2 235 226 7039 0 9,865.1517 3 55.22 2 234 27 8749 0 28 9,774.0459 170.9 680.4 2 3656 332 29 2168 8 9446 3 2722 431 32 23 33 8993 4 9,870.0013 0 8980 6 27 233 8993 4 9,870.0013 0 8980 6 27 235 338 35 35 35 35 35 35			9872			5053	9	0	4819	1 0	44
18 3314 171. 98 2097 7 2036 8 41 19 5033 7 5644 7 1107 940 21 8468 7 8291 6 0177 93.0 39 229,773.0185 59,867.0937 69,993.993.9247 038 23 1900 4 3583 5 7386 136 228 3614 23 8873 4 6454 235 235 234 6454 235 235 234 6454 235 236 234 24 24 24 24 24 24 24 24 24 24 24 24 25 252 234 24 24 235 235 234 24 24 235 234 24 24 235 234 24 24 235 234 24 24 235 234 24 24 235 234 2722 24 231 232 2728 332 232 234 2722 2431 242 235 232 232	17	9,772	1593	1	00	7702	8		3892	7	43
20 6751 7 5644 7 1107 9 40	1000	4.7		171.9	9,86		7		2026		
21		-	-		-	and the same of the same of		-	-	_	-
229,773.0185 5 9,867.0937 69,905.9247 038 3656 370 38 3670 37 38873 4 4488 3893 4 4488 4 389 3728 38873 4 4438 4 389 3873 4 4438 4 3888 4 4889 3833 4 4889 3833 4 4889 3833 4 4889 4 4 4 4 4 4 4 4 4			8468	7	1	8201	6			02.0	40
23	1000	0.773	2.0185	5	9,86	7,0937	6	E MILESON	5-9247	1 0	39
25			1900	4		3583	5		8317	0	37
26	24	18				6228	5		7386	1	36
27				1	0 86	9073	4				
28 9,774,0459 170,9 6804 2 365C 3 32 2722 4 31 30 3876 7,9,869,2089 2 1787 5 30 31 5583 5 4731 1 0852 5 29 32 7288 5 7372 19,904,9016 628 8993 4 9,870,0013 0 8680 627 33 6235 7501 69,871,0572 8 5230 8 23 39 9199 8 5848 8 3351 94.0 21 8 4291 9 22 3299 8 5848 8 3351 94.0 21 42 4280 4 6396 69,903 9587 217 42 4280 4 7676 3 9,873,1668 4 7001 3 15 46 9,777,1060 0 4302 5 6557 414 439 6128 79,874,2204 4 3023 511 52 9,778,1186 4 9,875,0102 2 1084 7 8 11 52 52 52 52 52 52 52			8740			4160					W .
29		9,77	1.0459	170.9		6804	2		3656	3	
31 5583 5 4731 1 0852 529 32 7288 5 7372 19,904.9916 628 33 8993 49,870.0013 0 8980 627 34 9,775.0697 2 2653 0 8043 726 35 2399 2 5293 0 7106 725 36 4101 0 7933.263.9 6168 824 37 5801 09,871.0572 85230 823 38 7501.169.8 3210 85848 3351.94.0 21 409,776.0897 6 8486 7 2411 0 20 41 2593 69,872.1123 7 1470 119 42 4289 4 3760 6 6529 118 43 5983 3 6396 69,993.9587 217 4470 119 4470 1470 119 4470 1470 148 459 14	20		2168	8		-	Territoria de la constantina della constantina d		2722		
32	34		3876	7	19,86				1787	5	
33			5583	5			1	0.00	0852	1 5	29
34 9,775.0697 2 2653 0 8043 7 26 35 2399 2 5293 0 7106 725 25 25 25 0 7106 725 25	300	- F-1	8003	2	9,87	0.0013	0	19,90	8680		
35		9,77	5.0697	2		2653	0		8043	7	
37 5801 09,871,0572 8 5230 8 23 38 7501 169,8 3210 8 4291 922 39 9199 8 5848 8 3351 94.0 21 40 9,776.0897 6 8486 7 2411 020 41 2593 69,872.1123 7 1470 119 42 4289 4 3760 6 0529 118 43 5983 3 6396 69,9903 9587 217 44 7676 3 9032 6 8644 316 45 9369 19,873.1668 4 7701 315 46 9,777.1060 4302 5 6557 414 48 4439 9 9571 3 4868 512 49 6128 79,874.2204 4 3923 511 50 7815 6	3		2399) 2		5293	0		7106	7	25
38	30		4101			7933	203.9				
39	13	8	7501	169.8	9,07				4201		B
40 9,776.0897 6 8486 7 2411 0 20 41 2593 6 9,872.1123 7 1470 1 19 42 4289 4 3760 6 0529 118 43 5983 3 0396 6 9,903 9587 217 44 7676 3 9032 6 8644 316 45 9369 19,873.1668 4 7701 315 46 9,777.1060 0 4302 5 6557 414 47 2750 168.9 6937 4 5813 413 48 4439 9 9571 3 4868 512 49 6128 79,874.2204 4 3923 511 50 7815 6 4838 2 2977 610 51 9501 5 7470 2 2031 6 9 53 2870 3 2734 1 1036 8 7	130		9199	8		5848	8		3351	94.0	
41	40	9,77		6		8486				-	S-deep 2
43 5983 3 6396 69,903 9587 217 44 7676 3 9932 68644 316 45 9369 19,873,1668 47701 315 46 9,777,1060 0 4302 5657 414 47 2750 168.9 6937 4868 512 48 4439 9 9571 34868 512 49 6128 79,874,2204 43923 511 50 7815 64838 22977 610 51 9501 7470 22031 69 52 9,778,1186 49,875,0102 21084 78 53 2870 2734 1036 87 55 6235 19,992,9188 86 728995.0 57 9596 167.9 3257,262.9 6339 23 56 9395 7289 6395.0 23 56 9386 9586 95380 23 57 93779,1275 8586 95380 23	4		2593	1		2.1123	7	-753	1470	1	119
44			4280	4		6206		0.00	0529	1	
45 9,369 19,873,1668 4 7701 3 15 46 9,777,1060 0 4302 5 6557 4 14 47 2750 168.9 6937 4 5813 4 13 48 4439 9 9571 3 4868 5 12 49 6128 79,874,2204 4 3923 5 11 50 7815 6 4838 2 2977 6 10 51 9501 5 7470 2 2031 6 9 52 9,778,1186 49,875,0102 2 10,84 7 8 53 2870 3 2734 1 0136 8 7 54 4553 2 5305 1 9,902,9188 8 6 53 6235 1 7996 1 8239 9 5 55 7916 09,876,0627 0 7289,95.0 4 57 9,779,1275 8 5886 9 5389 0 2 58 9,779,1275 8 5886 9 5389 0 2 59 7,779,1275 8 5886 9 5389 0 2 59 7,779,1275 8 5886 9 5389 0 2			7676	3		9032	1 0	3,90	8644		
46 9,777.1060 0 4302 5 6557 4 14 47 2750 168.9 6937 4 5813 4 13 48 4439 9 957! 3 4868 5 12 49 6128 7 9,874.2204 4 3923 5 11 50 7815 6 4838 2 2977 6 10 52 9,778.1186 49,875.0102 2 1084 7 8 53 2870 3 2734 1 0136 8 7 55 6235 1 09,875.0102 2 1084 7 8 55 6235 1 09,875.0102 2 1084 7 8 55 7916 0 9,876.0627 0 7289 95.0 4 57 9596 167.9 3257 262.9 6339 0 3 58 9,779.1275 8 5886 9 5389 0 2 59 9,779.1275 8 5886 9 5389 0 2 59 9,779.1275 8 5886 9 5389 0 2	14	1	9369	1	9,87	3,1008	V. S. T. S.		7701	3	
49	40	9,77	7.1060	0	Acres 1	4302	5		6557	4	14
49	14	7	2750	108.9	1	0937	4	1	5812		13
7815 6 4838 2 2977 6 10 51 9501 5 7470 2 2031 6 9 52 9.778.1186 4 9.875.0102 2 1084 7 8 53 2870 3 2734 1 0136 8 7 54 4553 2 5305 1 9.902.9188 8 6 55 6235 1 7996 1 8239 9 5 56 7916 09.876.0627 0 7289 95. c 4 9596 167. 9 3257 262. 9 6339 c 3 58 9.779.1275 8 5886 9 5389 c 2 2953 7 8515 9 4438 1 1			6128	9	9,87	4.2204	4		3022	5	12
51 9501 5 7470 2 2031 6 9 8 7 8 8 8 6 7 8 8 8 6 8 8 8 6 8 8 8 6 8 8 8 8	- School	-	The Parties of Street, or other Desiration of the Parties of the P			4828	The second second	-			
55 6235 1 7996 1 8239 9 5 56 7916 09,876,0627 0 728995.c 4 9596 167.9 3257262.9 6339 0 3 57 9,779,1275 8 5886 9 5389 0 2 2953 7 8515 9 4438 1 1	15	100	9501	5		7470	2	585	2031	6	0
55 6235 1 7996 1 8239 9 5 56 7916 09,876,0627 0 728995.c 4 9596 167.9 3257262.9 6339 0 3 57 9,779,1275 8 5886 9 5389 0 2 2953 7 8515 9 4438 1 1	150	19,77	3.1186	1 4	9,87	5.0102	28.2		1084	7	8
55 6235 1 7996 1 8239 9 5 56 7916 09,876,0627 0 728995.c 4 9596 167.9 3257262.9 6339 0 3 57 9,779,1275 8 5886 9 5389 0 2 2953 7 8515 9 4438 1 1	153	10	2870	3	1.59	2734	1	0.00	0136	8	27
56 7910 09,870,0027 0 728995. c 4 1 1 1 1 1 1 1 1 1			6235	2	100	2006	1	9,90	8220	8	1.6
\$7 9590 107.9 3257 262.9 6339 C 3 56 94779.1275 8 5886 9 5389 C 2 56 2953 7 8515 9 4438 1 1	St.	6	7010	0	9,87	6.0627	0		7200	195.0	5
56 2953 7 8515 9 4438 1 1	157	100	9596	167.9	1	3257	262.9		6339	0	3
1 Co Sine. Diff. dr.Co.Tan. Diff. Sine. Diff. M	151	9.779	1.1275	9		5886	9	-	5389	. 0	2
In Co one. 1 Diff. var. co. Lan. Diff. Sine. Diff. M		1		7	4-0	0515	9			_	
	THE	100	orne.	Diff.	ar.c	o. I da.	Diff.	3	ne.	Diff.	M

1-	Loga	rithm	s of Sines	and Ta	ingents.	ESE
M	Sine.	Diff	37 Degree Tangent.		Co Sine.	In: a las
-	Contract of the last of the la	WHEN SHAPE		Control of the late of the late of		Diff. M
I	9,779.4630 6306	107.0	3772	202. 0		
2	7981	4	6400	2	2534 1581	2 59 3 58
3	9655	3	9027	7	0628	357
4	9,780.1328	2	9,878,1654	7	9,901.9674	
5	3000	I	4281	6	8719	555
	4671	0	6907	6	7764	5 54
7 8	0341	166.9	9533	5	6,808	1 1221
	8010 9677	7	9,879.2158	4 5	5852	
9	THE RESERVE AND ADDRESS OF THE PARTY NAMED IN	-		-	4895	THE RESERVE THE PARTY NAMED IN
10	9,781.1344	6	7407	4	3938	750
11	4675	5	9,880,0031	3	2980	
12	6339	4 3	5277	3	1062	948
13	8002	2	7900	2	0102	211/
15	9664	0	9,881,0522		9,900.9142	045
16	9,782.1324	0	3144		8181	144
17	2984	165.9	5765	1	7219	2 43
18	4643	8	8386	1	6257	2 42
19	6301		9,882.1007	0	5294	341
20	7958	6	3027	261.9	4331	340
21	9,783.1268	4	6246 8866	261.8	3367	439
22	2922	4	9,883.1484		2403	438
23	4575	3 2	4103	9	1438 0472	5 37 6 36
24	6227	1	6721	7	9,899.9506	635
26	7878	0	9338	8	8539	734
27	9528	164.9	9,884.1956	6	7572	7 33
28	9,784.1177	7	4572	7 6	6604	8 32
29	2824	7	7189	6	5636	831
30	4471	6	9805	5	4667	930
31	6117		9,885.2420	5 5 5	3697	
32	7762	4	5035 7650	5	2727	0 28
33	9,785.1049	3	9,886,0264	200	1756 0784	1 27
34	2691	1	2878	4	9,898.9812	2 26 2 25
35	4332	0	5492	3	8840	2 24
27	5972	163.9	8105	3	7867	3 23
38	7611	8	9,887.0718	2	6893	4 22
39	9249	7	3330	2	5919	4 21
40	9,786,0886	6	5942	2	4944	5 20
41	2522	5	8554	1	3968	619
42	4157	4	9,888.1165	0	2992	618
43	5791	3 2	3775 6386	1	2015	7 17
44	7424 9056		8996	260.9	1038	716
45		0	9,889.1605	9	9,897.9082	8 15 8 14
46	2317		4214	9	8103	913
47	3946	8	6823	9	7123	98.012
49	5574	8	9432	9 8	6143	011
50	7202	6	9,890.2040	7	5162	110
51	8828	5	- 4647	7	4181	1 9
52	9,788.0453	4	7254	7		
53	2077	4	9861	776	2216	3 7
54	3701	2	9,891.2468			
55	5323	I	5074 7679	5	9,896.9265	
56	6944 8565	161.0	9,892.0285		0.0-	4 4
57	0,00	201.9	2890	5	1 1000 1000 100	
	1802	8	5494	4		6 1
59	Co Sine	Diff.	Ar Co Tang			Diff. M
100	GV GIM	Dill.	In the stand	Dill.		7 112

100	TABLE XXXIV.											
M	Sine	Diff.	Tang.	Diff.	Co Sine.	Diff.	M					
	9,789,3420	161.6	9,892.8098	260- 4		98.7	60					
1	5036	6	9,893.0702	4	4334	7	59					
2	6652		3306		3346		1:8					
3	8266 9880	0.00	5909	100	2358	8	15/					
4	9,790.1493	3	9,8941114	3	1369							
5	3104	0.000	3715		9,895 9389	99.0	\mathbf{o}					
7 8	4715	0	6317	1	8398	1	53					
		160.8			7406	2	52					
9	7933	8	22.23.3		6414	2	51					
10	9541	7 6	4119	0	5422	2	50					
11	9,791,1148	0			4429	3	49					
13	4359	4	9,896,1918	259.9	3435 2440	4	48					
14	5963	2			1445		46					
15	7566	2	7116	9	0450		45					
16	9168	1	9714	8	9,894 9453	7	44					
17	9,792.0769		11 11 1	8	8457	6	43					
19	3968	159.9	4910 7507	7 7	7459 6461	0	42					
20	5566	The second second	9,898 0104		-		41					
21	7163	7	2700			100.0	40					
22	8760	5	5206			99.9						
	9,793.0355	4	7892	5	2463	100. 1	37					
24	1949	4	9,899.0487	5	1462	1	36					
25	3543	2 2	3082		0461	1	35					
27	5135 6727	0	5677 8271	4			34					
28	8317	0	9,900 0865	4	8456 7452		33					
29	9907	158.9	3459	_ 3	6448		32					
30	9,794.1496	7	6052	3	-		30					
31	3083	7	8645	2		5	20					
32	4670	6	0.001.1227	3		6	29 28					
33	6256 7841	5	3830	2	-420	7	27					
34	9425	4	9013	100	1419	7	26					
36	9,795,1008	2	9,902.1604	1	9,892,9404	7 8	25 24					
27	2590	1	4195	1	8395		23					
38	4171	0	6786	0	7385	101.0	22					
39	-	157-9	9376	0	6375	0	21					
40	7330	9		258.9	5365	0	20					
41	8909 9,796.0486	7	4555	9	4354	1	19					
43	2002	6	7144 9733	9	3342		18					
44	3638		9,904,2321		2329 1316	3	17					
45	5212	4	4910	9 7 8	0303	3	15					
46	6786	3	7497		9,891,9289	4	14					
47	8359 9930	1	9,905.0085	7	8274	5	13					
499	,797.1501	o	2672 5259	7	7258	6	12					
50	3071		7845	6	5242		11					
51	4640		9,906.0431	6	5226 4208	6 8	10					
52	6208	7 6	3017	6	3191	7	98					
53	7775		5603		2172	9	_					
54	9341	5	8188	5 5 4	1153	9	7					
59	2470		0,907.0773		0133	102.0	5					
7	4034	4 2	3357 5941	49	800.9113	0	4					
8	5596	2	8525	4 4	8092 7071	1	3					
9_	7158	09	,908,1100	3	6049	2	2					
W I	Co Sine. 1	Diff.	Ar Colang.	if.		-	000					

-	Logar	ithms	of Sines an		igents.	13	3
M.	Sine.	Diff.	39 Degre	Diff.	Co Sine.	Diff.	M
	9,798.8718	156.0	9,908.3692	STATE OF THE PERSON NAMED IN	ASSESSMENT OF THE PARTY OF THE	Annual Control of the	60
1	9,799.0270	155.8	6275	3	4003	3	59
2	1030	8	8858	2	2979	4	58
3	3394	7	9,909 1440	2	1954	5	57 56
4	4651 6507	5	4022 6603	2	9,889,9903		55
4 5 6	8062	4	9185	1	8877		54
7	9610	3	9,910,1766	1	7850	7	53
8	9,800.1169	2	4347	0	6822		52
9	272	1	6927	0	5794	A PERSON NAMED IN	51
10	4272	1	9507	0	4765	9	50
11		154.9	9,911,2087	257.9	3736 2706		49
12	7372 8921	7	7245	9	1675		47
13	9,801.0468	7	9824	9	0644	1	46
15	2015		9,912,2403	8	9,888.9612	2	45
16	3561	5	4981	8	8580	2	44
17	5100		7559	8	7547	3	43
18	0	3	9,913 0137	7	6513	41	42 41
19	The second secon	3		-	5479		40
20	- 06	0	5291 7868	7	4444 3408	6	39
21	-0.6	153.9	9,914 0444	6	2372	6	38
23		9	3020	6	1335	7	37
24	1 20	7	5596	5	0298	7	36
25	7431	7	8171	6	9,887 9260	8	35
26	- 0	6	2.2 2. 1.11	5	8221 7182		34 33
27	9,803 0504		3322 5896	5		104.0	
28	The state of the s		8471	4	5102	0	31
29			THE RESERVE TO THE PARTY OF THE		4061	COLUMN TWO IS	30
30			3618	4			29
32	0.10	1	6192	3	1977	2	28
22	0000	152.9	8765	3	0934	3	27
34	9,804.1228	9	9,917.1338	3	9,886.9890	4	26
35	2757 4284	7 7 5 5 5	3911 6483	2	8846 7801	4 5	25 24
30	5811	1 5	9055		6756		23
37	7336	5	9,918.1627		5710	0	22
39	7336 8861	4		1	4663	7	21
40	9,805.0385	3	6769	1	3616	7 8	20
41	1908	2	9340	I	2568	1: 8	19
42	3430	I	9,919,1911	0	1519	9	17
43	4951	IET O	4481 7051	0	9,885,9420 8370	105.0	16
44	6472	151.9		0	8370	0	15
45	7991	3			1 3 7		14
47	9,806.1027	7	4700	9	6267	2	13
48	2544			98	5215	2	12
49	4000	5	9898				11
50	5575	4	9,921.2466	8	3109		10
51	7089	3	5034 7602		2055		9
52	8602					5	
53	1626					6	76
55	313			7 7 6	7832		
56	464	150.8	5304			1 7	5 4 3
57	615	1 3	9,923 0437	7	5717		3
57	766.	1		7	1		2
59	0100	1	5579	5	3599	100.0	1
M		Diff.	Ar Co. un	Name of Street	Sine.	Diff.	M

50 Legrees

2186 368 5188 6696 8192 9693 2691 4186 7182 8678 810 0172 1666 3159 4650 6141 7631 9121	148.8 148.8	7angent. 9,923.813.3 9,924.0701 3266 5831 8396 9,925.0966 3524 6088 8652 9,926.1213 3778 6341 8904 4028 6590 9152 9,928.1713 4274 6835	55 55 44 44 44 43 33 33 22 22 21 11	9,884.254 147 041 9,883.935 829 723 616 510. 403: 297: 190 084 9,882.977 870 763 656	9 106. 1 1 1 4 3 2 2 8 4 4 9 5 5 6 1 7 7 8 8 8 107. 0 9 106. 9
808,067 2186 368 5188 6696 8192 9693 2691 4186 5686 7182 8678 810 0172 1666 3159 4650 6141 7631 9121	5 150. 5 4 4 4 8 2 2 2 149. 9 6 6 4 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	9,923.813 9,924.0701 3260 5831 8396 9,925.0960 3524 6088 8652 9,926.1212 3778 6341 8904 4028 6590 9152 9,928.1713 4274 6835 9396	256. 6 5 5 4 4 4 4 3 3 3 3 2 2 2 2 2 1 1	9,884.254 147 041 9,883.935 829 723 616 510 403 297 190 084 9,882.977 870 763 656 549 442	0 105. 9 9 106. 1 8 1 7 1 4 3 2 8 4 4 9 5 4 5 4 6 8 8 107. 0 9 106. 9
2186 368 5188 6696 8192 9693 2691 4186 7182 8678 810 0172 1666 3159 4650 6141 7631 9121	148.8 148.8	9,924.0701 3266 5831 8396 9,925.0966 3524 6088 8652 9,926.1213 3778 6341 8904 9,927.1466 4028 6596 9152 9,928.1713 4274 6835 9396	55 55 44 44 44 43 33 33 22 22 21 11	9,883.935 829 723 616 510. 403. 297 190 084 9,882.977 870 763 656 549 442	9 106. 1 1 1 4 3 2 2 8 4 4 9 5 5 6 1 7 7 8 8 8 107. 0 9 106. 9
368, 5186, 6696, 8193, 969, 2691, 4186, 5686, 7182, 867, 867, 810,0172, 1666, 3159, 4650, 6141, 7631, 9121,	148.8 148.8	3266 5831 8396 9,925.0966 3524 6088 8652 9,926.1213 3778 6341 8904 9,927.1466 4028 6590 9152 9,928.1713 4274 6835	5 5 5 4 4 4 4 3 3 3 2 2 2 2 2 1 1 1	9,883.935 829 723 616 510. 403. 297 190 084 9,882.977 870 763 656 549 442	9 106. 1 1 1 4 3 2 2 8 4 4 9 5 5 6 1 7 7 8 8 8 107. 0 9 106. 9
5188 6696 8193 9693 809,1193 2691 4186 5686 7182 8678 810 0172 1666 3159 4650 6141 7631 9121	2 149.9 2 149.9 3 1 1 0 0 148.8	5831 8396 9,925.0966 3524 6088 8652 9,926.1213 3778 6341 8904 9,927.1466 4028 6596 9152 9,928.1713 4274 6835	3 3 3 3 3 3 2 2 2 2 2 1 1	9,883.935 829 723 616 510. 403. 297 190 084 9,882.977. 870 763 656 549. 442	8 1 1 1 3 2 2 8 4 4 4 9 5 5 4 5 5 6 7 7 8 8 8 107.0 9 106.9
6696 8192 9693 2691 4186 5686 7182 8678 810 0172 1666 3159 4650 6141 7631 9121	2 149.9 2 149.9 6 6 4 4 4 3 1 1 1 1 1 0 0 1 1 1 8	9,925.0960 3524 6088 8652 9,926.1216 3778 6341 8904 4028 6590 9152 9,928.1713 4274 6835 9396	4 4 4 3 3 3 3 2 2 2 2 1 1	9,882,977 870 9,882,977 870 763 656 549	4 3 2 2 8 4 4 4 9 5 4 5 6 7 7 8 8 8 8 107.0 9 106.9
819: 969: 269: 418: 568: 718: 867: 867: 810:017: 166: 3159: 465: 614: 763: 912:	2 149.98 8 7 6 6 6 4 4 3 1 1 1 1 0 0 148.8	9,925.0966 3524 6088 8652 9,926.1216 3778 6341 8904 4028 6590 9152 9,928.1713 4274 6835 9396	3 3 3 3 3 2 2 2 2 2 1 1	723 616 510 403 297 190 084 9,882,977 870 763 656 549 442	2 2 2 4 4 4 9 5 5 4 5 6 7 7 8 8 8 107.0 9 106.9
969: 269: 4186 5686 7182 8678 810 0172 1666 3159 4650 6141 7631 9121	2 149.9 8 7 6 6 6 4 4 3 1 1 1 0 0 148.8	3524 6088 8652 9,926,1210 3778 6341 8904 4028 6590 9152 9,928,1713 4274 6835 9396	3 3 3 3 3 2 2 2 2 2 1 1	9,882,977 870 763 656 549 442	8 4 4 4 9 5 5 5 8 6 7 7 8 8 8 8 8 107.0 9 106.9
809.1192 2691 4186 5686 7182 8678 810.0172 1666 3159 4650 6141 7631 9121	149.9 8 7 6 6 6 4 4 3 1 1 1 1 1 1 1 1 1 1 1 1 1	9,926,1213 3778 6341 8904 9,927,1466 4028 6590 9152 9,928,1713 4274 6835 9396	3 3 3 3 3 2 2 2 2 2 1 1	9,882,977 870 763 656 549 442	4 4 5 5 5 8 6 7 7 7 8 8 8 8 107.0 9 106.9
2691 4180 5686 7182 8678 810 0172 1666 3159 4650 6141 7631 9121	8 7 6 6 6 4 4 3 1 1 1 1 1 1 8 8 7 7	9,926,1213 3778 6341 8904 9,927,1466 4028 6590 9152 9,928,1713 4274 6835 9396	3 3 3 3 2 2 2 2 2 1 1	9,882,977 870 763 656 549 442	9 5 4 5 8 6 1 7 4 7 6 8 8 8 8 107.0 9 106.9
5686 7182 8678 810 0172 1666 3159 4650 6141 7631 9121	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	9,920,1216 3778 6341 8904 9,927,1466 4028 6590 9152 9,928,1713 4274 6835 9396	3 3 3 2 2 2 2 1 1	9,882,977 870 763 656 549 442	4 5 8 6 1 7 4 7 6 8 8 8 8 107.0 9 106.9
7182 8678 810 0172 1666 3159 4650 6141 7631 9121	148.8	6341 8904 9,927,1466 4028 6590 9152 9,928,1713 4274 6835	3 3 2 2 2 2 1 1	9,882,977 870 763 656 549 442	8 6 1 7 4 7 6 8 8 8 8 107.0 9 106.9
8678 810 0172 1666 3159 4650 6141 7631 9121	4 4 3 1 1 0 0 148.8	9,927,1466 4028 6590 9152 9,928,1713 4274 6835	3 2 2 2 2 2 1 1	9,882,977 870 763 656 549 442	7 4 7 6 8 8 8 8 107.0
810 0172 1666 3159 4650 6141 7631 9121	148.8	9,927,1466 4028 6590 9152 9,928,1713 4274 6835	2 2 2 2 1 1 1	9,882,977 870 763 656 549 442	4 7 6 8 8 8 8 107.0
3159 4650 6141 7631 9121 811 0609	148.8	9,927,1466 4028 6590 9152 9,928,1713 4274 6835 9396	2 2 2 1 1 1 1	870 763 656 549 442	8 8 8 8 107.0 9106.9
3159 4650 6141 7631 9121 811 0609	148.8	9,928,1713 4274 6835	2 2 1 1 1	763 656 549 442	8 107.0 9106.9
4650 6141 7631 9121 811 0609	148.8	9,928,1713 4274 6835 9396	1 1	549 442	9106.9
7631 9121 811 0609	148.8	9,928,1713 4274 6835 9396	1	549 442	9106.9
7631 9121 811 0609	148.8	4274 6835 9396	1	442	81107 1
9121	148.8	9396	1	335	
811 0609	1-7	9396	1	223	71 11
911 0000		9390		228	5 2
anah	7		0	121	3 2
2096		9,929.1956	0	0140	2
3583		4516	0	9,881.906	31:
6554		7076	255.9	799	5
8038	3	9,930.2195	256.0	584:	
9521			255.9	4760	6
812.1003	1	7314		3689	A
2484	. 1	9872	9	261	
3965	147.9	9,931.2431	8	1534	
5444	THE OWNER OF TAXABLE PARTY.	4989	8	0455	
6923	8	7547	8	9,880.9376	9 9 3
8401	7	9,932.0105	1 1	8200	108.02
9878	0	2002		7215	1 1 4
313.1354	5	5220		6134	1 2
2829		7777	7 6	5052	2 2
4303	0.00	9,933.0334	6	3070	20
5777	3	2890	6	2887	210
7250	1	5446	- 7	1803	4/2
		8003		0719	4 2
1662	0	9,934 0559	5	9,879.9634	5 2
3131	146.9	3114		8548	611
4600	9	5670 8225	5 5 5	7462	61
6067	4	9,935.0780	5	6375	7 1 8 1
7534	5	2325	3	5287	
8999	5	3335 5889	4 5	4199	
	4	8444	4	3110	
15.0464	3	9,936,0998	4	0930	
1928	3	3552	3	,878 9840	109.01
1928 3391	1	6105			
15.0464 1928 3391 4854	1	8659	3	7656	
1928 3391 4854 6315	LAE OF	9,937-1212	3	6563	3 8
1928 3391 4854 6315 7776	13 31	3765	3	5470	2
1928 3391 4854 6315 7776	9	6318	3	4376	3 7
3391 4854 6315 7776 9235 316.0694	98		2	3281	5
3391 4854 6315 7776 9235 316,0694 2152	9 8 7	8871		2186	3 4 5 5 4 5
315.0464 1928 3391 4854 6315 7776 9235 316.0694 2152 3600	98 7	3938.1423		1090	5 5 4 3 6 3
3391 4854 6315 7776 9235 316,0694 2152 3609 5066	98 7	3975 3975		O and	6 2
3391 4854 6315 7776 9235 816.0694 2152 3609 5066 6521	98 7 7 5 4	8871 0.938.1423 3975 6527	29	,877.9994	8 1
3	4854 6315 7776	4854 1 6315 1 7776 145 99 9235 9 16.0694 8	4854 1 6105 6315 1 8659 7776 145 99,937.1212 9235 9 3765 16,0694 8 6318 2152 7 8871 3609 79,938.1423	4854 1 6105 4 6315 1 8659 3 7776 145 99,937.1212 3 9235 9 3765 3 16,0694 8 6318 3 2152 7 8871 2 3609 79,938.1423 2 5066 5 3975 2	4854 1 6105 4 8748 6315 1 8659 3 7656 7776 145 99,937 1212 3 6563 9235 6563 3 765 3 5470 9235 6318 3 4376 2152 7 8871 2 3281 3609 79,938.1423 2 2186 5066 5 3975 2 1000

1	1	Logari	thms o	f Sines an		gents.	13	51
١	0.71	Sine.	Diff.		prees.	0.00	I Division	+
I	M.	-	Total Contract of	- 5	Diff	Co Sine.	Diff	-
1	0	9,816.9429 9,817.0882	145.3	4182	255.1	9,877-7799		0
١	2	2334		6733	1	5601	95	
1	3	3785	0	9284	1		110.05	7
1	4	5235	0	9,940.1835	0	3401		6
1	4 56	6685	144.8	4385	1	2300	15	5
1	0 7	8133 9581		6936	0	1198	25	4
	8	9,818,1028	6	9,941,2036	254.0	9,876.8993	2 5 3 5	2
	9		5	4585	255.0	7889	45	
ı	10	3919	5		254.9	6785		100
1	11	5364	3	9684	9	5680	54	
	12	6807	3	9,942.2233	9	4574	64	8
-	13	8250 9692	2	1	98	3468	94	
1	14	9,819.1133	0	- 7331 9879			7 4 8 4	10
1	16			9,943.2428		0145	84	3
1	17	4012		4976	8	9,875 9036	94	
	18	7000	8	7524	8	7927	04	
	19		-	9,944 0072	7	6816	111.14	1
1	20	8325	6	2619	7	5706		
1	21	9,820.1196	5	5166		4594	2 3	
	23		4 3	7714 9,945.0261	6	3482 2369	2 3	8
	24		3	2807	6	1256	3 3	6
1	25	5496		5354	6	0142	4 3	
1	26			7900	6	9,874.9027	5 3	4
	27	8358	0	9,946.0447	C	7912	5 3	33
1	28	9,821.1217	142.9	100		1 7 7 3		32
1	-	The same of the same of	9	3332	5	5679		31
1	30			8084 9,947.0630				30
	31			3175	5			28
1	33		5	5720	5	2325		1
1	34	0351	4	8265	5	0085	- C 2	6
1	35	9775 9,822.1198 2621	3 3	9,948.0810	5	9,873.8965	0 2	25
1	30	9,822.1198	3	3355 5899	4 4 4	7844		24
	37 38 39	4042	1	5099	4	6922	2 2	23
1	30	5463		9,949 0987	4	5599 4476	3 2	22
1	37	6883	141.9		-	THE RESERVE AND PERSONS ASSESSED.	-	15
1	40	8302	9	3531 6075	4 4	3352	42	10
-	42	9721	7	8019	3	1101	5 1	8
1	43	9,823 1138	7 6	9,950,1162	3 3 3 3 3	9:872.9976 8849	61	171
1	44	2555	6	3705	3	8849	7	6
1	45	3971 5386 6800	3 3 1	6248	3	7722	711	5
-	46	6800	4	8791	3 2	6594 5466	81	4
1	47 48	8213	3	9,951.1334	3	4337	91	3
1	49	9020		6419	2	3207		1
	50	9,824.1037	(i) -1	8961	2	2076	Management against the	10
1	51	9,824.1037 2448 3858	0	0.052 1503	2	+ 0045	1	-
1	52	3858	140.9	4045 6587 9128	2	9,871,9813	2	8
1	53	5207	(4)	0587	1	8681	2	7
1	54	6676 8083	7	0 050 1650	2		3	6
1	55	9490	7 6	9,953.1670	1	6414	1 4	5
-	57	9,825.0896	5	6752		5279 4144		4
1	58	2301	4	9293	1	3008	6	98 76 5432
1	59	3705	4	9,954.1834	0		6	1
1	No.	Co. Sine	Diff	ArCo Tang.	Diff	Sine.	Diff.	M
-	-	-	-		Al	A CONTRACTOR OF THE PARTY OF TH	4 70 , 1	

1	36	5	TA	BLE	XXX	riv.	NAT.	-
11:	WI	Sine.	Diff.		grees Diff.	Co Sine.	Diff.	M
1	09	,825.5100	140.	9,954.4374	254. 1	9,871.0735	113.7	60
1	_							59
	3	7913		9455		1		58
-	49	,826.071	139.	4535	0		114.0	57
1	5	2114	+	7075	0	5039	0	55
1	- 4	3512		9615			1 2	54
1	78	6307		4694	253.9	1613	3	53
	9_	7703	- 5	7233	9	0470	3	51
	0	9098	1 5	9772	100			
1	2 2	,827.0493	4		9			49 48
1	_	3279	2	7389	8	5891	6	47
1		4971	1			4744	7	46
1		6063 7453		1	98	3597 2449		45
1	7	8843	138.8	7542	8	1301	8	43
		1619		2618	8	9,868.9002	9	42
20	-	-			-	7851		41
2		3006 4393	5		7	6700	1	39
2:	2	5778	5	19,900.0230	7 8	5548	2	38
2		7163		2767	815	4396	2	37
2		8547 9930	3	5305 7842	7 6	3242 2088	4	36
120	6,9	829 1312	2	9,961.0378	7	0934	4	34
2	7	2694	1	2915	7 6	9,867.9779 8623	5	33
20		4°75 5454	137.9		7	7466	7	32
30		6833		9,962.0525	6	6309	The second second	30
131		8212	7	3061	6	5151	8	29
33	20.	9589 830.0966	7 6	5597 8133	6	3992 2833		28
34		2342	5	9,963.0669	5	1673	116.0	26
35		3717	4	3204		9,866.0512	1	25
30	2	5091 6464	3	5740 8275	5	9351 8189		24
37		7837	3 2	9,964.0811		7026		23
39		9206	1	3346	5 5	5863	3	21
40	9,	831.0580		5881	5	4699	4	19
41		3320	126.8	9,965.0951	5 5	3534 2369	5	19
43		4688	8	3486	4	1203	6	17
44		6056	7 6	6020	51	0036	7	10
45		7423 8789	6	9,966.1089	4	9,865.8868		15
47	9.	832.0155	100	3623	4	6531	100	13
48		1519 2883	4	6157	5 3	5362	-	12
49	-		3	8692		4192	-	11
50		4246 5609	3	9,967.1225	4 4	3021 1849	-	0
52		6970	1	6293	4	0077	2 2	9
53		8331	0	8827	3	9,864.9504	3	7
54	9.5	9691	135.9	3893	3 4	8331 7156	3 5	5
55	1	2408	8	6427	3	5981 4806	5	4
57 58		3766	6	8960	3	4806 3629	3 3 5 5 5 5 7	76 5 4 3 2
59		5122 6478	5	4026	3	2452	7	1
M	C		-	-	Diff.	Sim.	Diff. 1	N
	-	-	D-1	47 Degr	ees.	The same of the same of		-

47 Degrees.

1 -	Logari	thms o	of Sines an	d Ian	gents.	i	37
In	Sine.	Diff.	43 De	Diff.	Co Sine.	Diff.	-M
-	9.833.7833	125.5	0,969.6559	OR PERSONAL PROPERTY.	THE RESERVE AND ADDRESS OF THE PARTY NAMED IN		60
1	9188	144.3	9091	3	0000		59
2	9,834.0541	3	9,970,1624	3	9,863.8917	D.E. 189	58
3	1894	2	4157	2		118.0	57
4	3246	1	6689	2	6557	0	56
5	4597 5948	134.0	9,971-1754	080.0	5376	2	55
100	7297	9	4286	2	3011	3	54 53
7 8	8646	8	6818	2	1828	2	52
9	9994	7	9359	2	0644		51
10	9,835,1341	7	9,972.1882	1	9,862 9460	4	50
	2688	5	6945	2	8274 7088	6	49
12	4033 5378	3	9477	29 1	5902		100
13	0722	4	9,973,2008	I	4714	8	
	8066	2	4539	2	3526	8	45
15	9408	128.8	7071	1	2338	8	44
17	9,836,0750	0	9,974.2133	685 G	9,861.9958	119.0	TO
18	3431	0	4664	1		I	
20	4771	133.8	7195	1	7576		41
21	6100	8	9726		6.0.	3	1
22	7447	7	9,975.2257	C	5190	3	39
23	8784	7	4787	1	3997	3	37
	9,837 0121	25.5	7318		2803 1608	4	36
25	2791	4	9,976,2379				35
27	4125				46	7	DI
28	5458				8018	1 5	
29	6790	2			6821	7	
30	8122		9,977 2500				_
31	9453	0	3.3	0			29
32	9,838,0783	132.9	9,978.0090	0	3223		28
33		8	2620	252.0	0821	1	27 26
35	3441 4769	7	5149	253.0	9,859.9619	2	
35	0090	0	7079	0	8410	3	24
37 38	7422 8747	5	9,979.0209	252.9	7213	3	23
38	9,839,0072	5.5	5268	253.0	6009	1 4	22
	1396	-					COLUMN 1
40	2719	2	9,980,0326	252.0	3599	5	20
41	4041	3 2 2	2856	252.9	2393 1186		19
43	4041 5363 6684	1	2856 5385	9	La 0 - 0 0	8	17
44	6684	0	7914	999998	8770 7561 6351	8	16
45 46	8004		9,981.0443	9	7501	9	15
40	9323	9 7 7	2972 5501	9	5141	121.0	14
47	1959	7	8030	9	3929	0 2	13
49	3276	7	9,982 0559	8	2718	a Barr	II
50	4593		208-	9	1505	-	10
51 52	5908	5 5	5616 8145	9 9 8 9 8	0292	3 3 4 5 5	
52	7223	3 2	0 082 062	8	9,857,9078	4	9
53	8537 9850	3	9,983,0673	9	7863	- 5	6
54	9,841,1162	2	5730		6648 5432	5	
56			8250	9 8 8	4215		4
55 56 57 58	2474 3785		9,904.0787		2998	- 7	5 4 3 2
	5095 6404	130.9	3315 5844	98	1779 0561	9	
59	Co Sine.	Die	4 C T	Law are a law as a law at law		8	1
M	Co othe.	Diff.	Ar CoTang	Diff.	Sine	Diff.	M

138 TABLE XXXIV.												
-	0.	Die		rees.								
M		Diff	Tangent.	Diff	Co Sine.	Diff.	A					
0	9,841.7713	130.8	9,984.8372	252.8	9,856.9341	122.0	6					
2	9,842.0328	7	9,985.0900	0	8121	9	59					
_	1634	5	5956	8	6900 5678		5					
3	2939	5	8484	7	4455		5					
4 56	4244	4	9,986 1012	8	3232	3	5					
_	5548 6851	3	3540	8	2008	4	5.					
78	6851		6068		DESCRIPTION OF PERSONS ASSESSED.	4	5.					
-	8154 9456	2	9,987.1123	7 8	9,855 9558	6	5					
9	9,843.0757	0	Contract of the latest designation of			6	-					
10	2057	129.9	3651 6179	8	100000000000000000000000000000000000000							
12	3356	9	8706	7 8	4650	8	4					
13	4655	8	9,988.1234	7			4					
14	5953	7	3761	8			4					
15	7250		6289		0961	123. 1	4					
16	8547 9842	5	8816	2	9,854.9730	1	4					
17	9,844.1137	5 5	9,989.1344	7 8	8499 7266		4					
19	2432	3	6399	7		201	4					
20	3725		8926	Commence of		3	4					
21	5018	2	9,990.1453	7 8	4799 3564		4					
22	6310		3981	7	2329	5	3					
23	7601	0	6508	7	1093		3					
24	8891	0	9035	7	9.853.0856	2	31					
25	9,845.0181	128.9	9,991,1562	7	8619		3					
27	1470 2758	7	6616	7	7381		3					
28	4045	7	9143	7	614z 4902		3:					
29	5332	6	9,992 1670	7	3662		3					
30	6618	5	4197	7	2421	THE REAL PROPERTY NAMED IN	3					
31	7903	5	6724	7. 7	1170		30					
32	9188		9251	7	9,852,993t 8693	3	28					
	9,846.0471	3	9,993.1778	7	8693	3 4 5 5 6	27					
34	1754 3036	2	4305 6832	7	7449	4	26					
35	4318	1	0350	7	6204	5	2 5					
37	5599	0	9359	7	4959. 3713	5	2.					
37	5599 6879	127.9	4413	7	2466	-	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2					
39	0150	8	6940	6	Т218		2					
10	9436	8	9466		9,851.9970	_	20					
11	9,847.0714	7 6	9,995.1993	7776	8721		10					
12	3267	6	4520	7	7471	125.0	18					
13	4543	4	7°47 9573	1	0220	1	17					
5	4543 5817	4	9,996,2100	7	4969 3717							
10	7001	4	4627	7 7 7 6	2465		15					
78	8 ₃ 6 ₅ 96 _{3.7}	2	7554	12.00	1211	4	14					
8	9,848 0909	2	9680	7	9,850,0057	4	1 2					
	The Person of th	-	9,997.2207	7 7 6	870z	5	11					
0	2180 3450	0	4734 7260		7446	6	10					
2	4730	126.0	9787	7 7 6	6190	6						
3	5989	126.9	9,998 2314	. 3	4933	7 8	98					
4	7257	100	4840		3675 2417	81	7					
4	8524	776	7367	6	1157	126.0	0					
9	9791	6	9893	7	9,849.9897	0	5					
7	9,849.1057	5	9,999.2420	7 6	9,849.9897 8637		76 54 32					
300					The second secon							
8 9 0	2322 3586	4	4947	0	7375	0 2	2					

45 Degrees

		T	A I	BL	EX	XX	v.	139
		1	Auxil	iary	to I	ab. 3	4.	
	Deg	1	Deg	10.	Deg	1.	Deg	I
	1-	-		Sec. 1860	1	100000	1	Sec.
	1 2	1 17 1		10000		3720		5460
	3		33	1980	3	3780	33	5580
	4			2040		3840	34	5640
	5	360	36	2160	6	3900		5700 5760
	7 8	420	37	2220	7	4020	37	5820
		480		2280		4080	1000	588c
	10	600				4200		5940
	11	660	-	2460	_	4260	41	6060
	12	720	42	2520	12	4320	42	6120
	13	780 840		2580	13	4380		6180,
Minutes	15	900	45	2700		4500		6300
Mi	16	960	46	2760	16	4560	46	6360
	17	1020		2820 2880	17	4620 4680	47	6480
	19	1140		2940	19	4740	49	6540
	20	1200	-	3000	20	4800	50	6600
	21	1 260	-	3060	21	4860		6660
	22	1320	52 53		22	4920 4980	52	6720
	24	1440	54	3240	24	5040	54	6840
		1500	55	3300	25	5100	55	6900
		1620	57	3360 3420	27	5220		7020
1	28	1680	58	3480	28	5280	58	7080
1	30	1740	59	3540 3600		5340		7140
-	Leg		Deg	3000	-	5400	_	7200
	0	Sec	0	Sec.	Deg	Sec.	Deg 1	Sec.

Explanation of Tables 32 and 33.

N Tab. 32. (from Page 58 to 61.) Brigg's Log. of any Number, not exceeding 3 Places of Figures, will be

found on the right Hand of those Figures.

In the remaining Part of that Table; the three left Hand Figures (in the Column mark'd N) and the fourth, at Top (of one of the other Columns) will give the Logarithm of any Number of four Places of Figures; observing to prefix those Figures which in the Column figned (o) stand before the Period (.), to the Figures of the other Columns. If there be no fuch Figures on the Line, use those next above the same; observing when a Cypher begins any of the nine right hand Columns, to use, for the Remainder of that Line, those next below.

For Example, The Logarithm of the Number 7668 is 3,8846821 (fee Page 73.) viz. (3) the proper Index ; (884.) the Figures which on the Line with [766] stand before (.) in the Column mark'd (0); and (6821) those on the same Line in the Column mark'd (8): In like manner the Logarithms of 7673 and 7674 are 3,8849652 and 3,8850218.

In Tab. 33: The Number corresponding to any Briggean Logarithm, not exceeding four Places of Figures, will be found in the same manner as the Logarithms are found

in the latter Part of Tab. 32.

Thus, The Number corresponding to the Logarithm 2,6547 is 4515,439; (fee Page 87.) viz, (45.) the Figures which on the Line with (654) ftand before (.) in the Column mark'd (0); and (15439) those on the same Line in the Column mark'd (7): which Figures are separated by a Comma, in the above manner, because the Index of the given Logarithm, being 3, shews that the corresponding Number has four integral Places. In like manner the Numbers to the Logarithms 3,6532 and 3,6533 are 4499,870 and 4500,907.

The Logarithms to Numbers, and the Numbers to Logarithms, confifting of more than four and less than eight Places of Figures, may be found by either Table; as fol-

· lows,

Put a = any Number; A = it's Log.; N = the next greater tabular Number, n = the next leffer; L = the Log. of N; and l= the Log. of n. Then,

As
$$N-n: L-l:: a-n: A-l$$
 And $l+A-l=A$.
 $L-l: N-n:: A-l: a-n$ $n+a-n=a$.

Now because N-n is togo in Tab. 32, Therefore A-1 will be found therefrom by Multiplication, and a-n by Division.

On the contrary, fince L-1 is 1000 in Tab. 33, A-1 will be found from it by Division, and a - n by Mukipli-

But the Answers will be most casily obtained, by that Table wherein the Tabular Differences are least; now in Tab. 32. the Differences of the Logarithms of those Numbers, whose left Hand Figures exceed 4343, confift of but 3 Places of Figures; and in Tab. 33. the Differences of those Numbers, whose left Hand Figures are less than 4343, have like wife but three Places; for which Reason, those Differences, only, are inferted in either Table, in the Column mark'd Diff. viz. in the last ten Pages of the former, and in the first eleven Pages of the latter.

Confequencially, If the left Hand Figures of the Number, whose Logarithm is sought, exceed 4343, use the 32d. Table, otherwise the 33 d. And on the contrary, if the left Hand Figures of the Logarithm, whole Number is required, are lefs than 6378, use the 32d. Table; otherwise the 33d.

As Table 38, is inferted to fhorten the Operations abovementioned, the Reader is referr'd to the Use thereof for Examples.

(Ja-Pare ya.) wine (g) the proper delex : (884-)

Explas

Explanation of Tables 34 and 35.

THE Logarithms of the Sines of every Minute of the Quadrant, and of the Tangents of every Minute to 45 Degrees are contained in Table 34.

In Arcs greater than 2 Degrees, the Column mark'd Diff. contains the Differences between the adjoining left Hand Logarithms, and the next greater in the same Column.

But in Arcs less than 2 Deg. the Col. mark'd \{ Sub. Add. \} contains the Difference between the Logarithms of the Lengths of the Arcs, and the Logarithms of the \{ Sines. \} Cangents. \} of those Arcs; the Column mark'd Diff. being the Differences of the last named.

The Seconds, contained in any Number of Minutes less than 2 Degrees, are inserted, to the right Hand of that Num-

ber of Minutes, in Table 35.

The Cases, in which the manner of using Tab. 34. is different from others of the same kind are as follow.

CASE I.

To find the Logarithm Sine or Tangent of an Arc, confishing of Minutes and Seconds, less than 2 Degrees.

Examp. 1. What is the Log. Sine of 1º 11' 37"?

To (4260) the Seconds in 1° 11' (found in Tab. 35.) add (37) the given Seconds, the Sum of which (4297) is the Seconds in 1° 11' 37'':

To the Log. of (4297) that N° of Sec. (Tab. 32.) 3,6331654

Add the Log. of the Length of the Arc of 1 Sec. 4,6855749

From the Sum (being the Log. of the Length of the Arc)

Take the Number given by 1° 11' (Tab. 34.)

in the Col. mark'd (Sub.) See Page 95.

And 37 of 9 the annexed Difference,

5

Then will the Remainder be the Log. requir'd, 8,3187090

Examp. 2. What is the Log. Tangent of 1° 11'37'?

The Sum will be the Log. required, _____ 8,3188030

CASE II.

The Logarithm of a Sine or Tangent less than 2 Degrees; being given, to find the Arc.

Examp. 1. Of what Arc is 8,3187089 the Log. Sine?

To the given Log.

Add the Number given by (8,3210269) the nearest Tabular Log. Sine, in the Column mark'd (Sub.) See Pag. 95.

8,3187089

Find in Tab. 32. the nearest Logarithm \(\) 3,6331657

Then will (4297) the Number corresponding thereto, be the Seconds contained in (1° 11' 37") the required Arc.

Examp. 2. Of what Arc is 8,3188029 the Log. Tangent?

Take the Number given, by (8,3211221)
the nearest Tabular Log. Tangent, in
the Column mark'd (Add.)

And the Log. of the Length of the Arc of 1 Sec. 4,6855749

Find in Tab. 32. the nearest Log.(3,6331654) \} 3,6331645

to the Remainder

Then will (4297) the Number corresponding thereto be the Seconds contained in the required Arc (1° 11′ 37.".)

CASE III.

To find the Log. Tangent of an Arc greater than 45 Degrees. Find, by the Table, the Log. Co. Tangent; Then shall the Arithmetical Complement thereof be the Log. Tangent required.

Example. What is the Log. Tangent of 68° 56'?

The Log. Tangent of 21° 4' is per Table — 9,5856859;

Which deducted from 20,0000000, leaves 10,4143141,

the Log. Tangent of 68° 56'.

CASE IV.

To find the Log. Secant of any Arc.

Find, by the Table, the Log. Co. Sine; Then shall the Arithmetical Complement thereof be the Log. Secant required.

Example. What is the Log. Secant of 68° 56'?

The Log. Sine of 21° 4' is per Table ______ 9,5556433; Which deducted from 20,0000000, leaves 10,4443567, the Log. Secant of 68° 56'.



M. In right angled spheric Triangles, put H for the Hypothenuse; B, Base; P, Perpendicular; b, p, the Angles opposite the Base and Perpendicular; s, Sine; s', Cosine; t, Tangent; t', Co-tangent; and R, Radius: — or + signify that the Side or Angle, to which they are annexed, is less or greater than 90 Degrees; also two Sides or Angles are said to be like, when they are both less or both greater than 90 Degrees.

1	WHILE.	1	DESCRIPT WITH TOURS SECRETARY AS AN ADDRESS OF
G	Giv.	Re.	Solution.
1	Н,В.	b. p. P.	s. H: R:: s. B: s. b. (like B.) R: t.B:: t'.H: s'. p.}—if H like B, if not +
1	Н, в.	B. P.	R: s. H: : s. b. : s B. (like b.) R: s'. b: : t. H: t. P. — if H like b , if not $+$
3	B, b.	P.	s. b : R :: s. B : s. H. R: t. b :: t. B: s. P. s. B : R :: s' b : s. p.
4	В, р.	P.	R:t',B::s',p:t',H. (— if B like p, if not + $R:t,p::s,B:t,P.$ (like p.) $R:s,p::s',B:s'b.$ (like B.)
5	B, P.	H. b.	R: s, $B::s$, $P: s$, H . (— if B like P , if not $+$ $R: t$, $B::s$, $P: t$, b . (like B .) $R: t$, $P::s$, $B:t$, p . (like P .)
6	0, p.	H. B.	$R: t.b::t.p:s.H. (\rightarrow \text{if } b \text{ like } p, \text{ if not } + s.p:R::s.b:s.B. (\text{like } b.)$ s.b:R::s.p:s.P. (like p.)

In a spheric Triangle, where one of the Sides is 90 Degrees, call it's opposite Angle H; change the other Sides into Angles and the Angles into Sides; the Cases with their Solutions are as above: Observing, instead of H, to take it's Supplement, and instead of like put unlike, where the Species of H determines that of a Side or Angle, or where that of H is to be determined.

In the following Table of the Solutions of oblique spheric Triangles, put s, s', t, t', R, —, +, and like, as above; Also <, Angle; Sid. Side; g. given; r. required or remaining; op. opposite; ad. adjacent; com. comprehended; gr. greater; le. less; oth. other; mon, the Difference of m and n; Diff. Difference.

III. In oblique angled spheric Triangles,

_	-		
C.	Given.	Requi.	Solution.
	TENT	<op.< td=""><td>s. Sid. op. g. <: s. g. <:: s. oth. g. Sid. : s. < r. (+ both true.</td></op.<>	s. Sid. op. g. <: s. g. <:: s. oth. g. Sid. : s. < r. (+ both true.
	Two Sides and an	< com.	R:s'. Sid. ad. g. $< :: t.g. < :t' < m$. (like Sid. ad. if g. $< -$ t. Sid. op. g. $< :t.$ Sid. ad. ::s'. $< m:s'. < n$ (like Sid. op. if g. $< -$ And $< r. = m + n$. both true.
1	<pre>cop. to one of them.</pre>	Third	$R: s`.g. < :: t. Sid. ad. g. < :: t. < m. (like Sid. ad. if g. < - s`. Sid. ad. g. < :: s`. oth. Sid. :: s`. < m: s`. < n. (like Sid. op. if g. < - And Side r. = m \pm n. both true.$
-	101	I hen,	Sid. op. g. \leq Sid. ad. or = 180°—Sid. ad. or is between them $<$ op. like Sid. ad.; Also if Sid. ad. g. $<$ be like g. $<$, $<$ com. and Sid. $r = m + n$ only, (if not) they are $= m - n$ only
1		Sid. op.	s. < op. g. Sid .: s. g. Sid .: : s. oth. g. < : s. Sid. r. (+ both true.
1	Two Angles	Side common.	R:s'. $< ad. g. Sid.$: t. g. Sid.: t. $< m.$ (like $< ad.$ if g. Sid.—t. $< op. g. Sid.$:t. $< ad. g. Sid.$: s. $< m: s. < n.$ ($+$ both true.) And Sid. $r. = \begin{cases} m+n \\ m-n \end{cases}$ if $< op. g. Sid. \begin{cases} like \\ unl. \end{cases} < ad.$
1	2 and a Side	Third Angle.	$R: s`, g. Sid. :: t. < ad. g. Sid. : t`. < m (like < ad. if g. Sid s`. < ad. g. Sid. : s`. oth. < :: s. < m: s. < n. (+ both true.)$ $And < r. = \begin{cases} m+n \\ m-n \end{cases} \text{ if } < op. g. Sid. \end{cases} \begin{cases} \text{like } \\ \text{unl.} \end{cases} < ad.$
-		But if Then,	g. $Sid. = r$. $Sid.$ or $= 180^{\circ} - r$. $Sid.$ or is between them, $Sid.$ op. is unlike $< ad$; and $< n$. only $-$.
1	Two Sides	Other Angles.	s. \frac{1}{2} Sum Sides : s. \frac{1}{2} Diff. Sides : : t'. \frac{1}{2} g. < : t. < n. (-) s'. \frac{1}{2} Sum Sides : s' \frac{1}{2} Diff. Sides : : t' \frac{1}{2} g. < : t. < m (-) Sum lefs 180°.) And m + n = < op. gr. Side; m \sigma n = < op. le. Sid.
	< com.	Third Side.	Find the Angles by the Preceeding, And the Remaining Side by Case II.
4	Two Angles and a Side	Other Sides.	s. $\frac{1}{2}$ Sum $< s$. : s. $\frac{1}{2}$ Diff. $< s$. : t. $\frac{1}{2}$ g. Sid. : t. $< n$. (—) s. $\frac{1}{2}$ Sum $< s$. : s. $\frac{1}{2}$ Diff. $< s$. : t. $\frac{1}{2}$ g. Sid. : t. $< m$. (— i [Sum lefs 180°.) And $m + n = Sid$. op. gr. $< s$; $m \le n = Sid$. op. le. $<$.
10	non.	Third Angle.	Find the Sides by the Preceeding, And the remaining Angle by Cafe I.
5 5	Three Sides.	An An-	Put A , B , for the Sides including r . $<$; C . Sid. op. r . $<$; Alfo $A entsize B = D$; and L . Logarithm; Then, L . s . $\frac{1}{2} imes \overline{C+D}$. $+L$. s . $\frac{1}{2} imes \overline{C-D}$. $-L$. A . $-L$. B . $=L$. s . $\frac{1}{2} imes \overline{C+D}$.
6	Three Angles.	A Side.	Instead of the gr. < take it's Supplement; call the Angle Sides, and the Sides Angles; Then proceed as in Case V.

1146	TABLE	XXXV	1.	
	Min	utes.		
Se, o i i	2 3	4 5	6 7 8	9 10
1 3,5563 1,7710 1,4 2 3,2553 1,7639 1,6				
42,9542 1,7501 1,4	40291,291511,	6711.0720	00400270870	81907745
72,7112 1,7302 1,	4525 1,2045 1,	16101.0678	0005 0240 8670	8175 7724
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11 2,5149 1,7050 1,	43901,27531,	1549 1,0621	19858 9208 864	3 8144 7696
142,4102 1,6871 1,	42921,20051,	1408 1.0580	0823 0178 861	781207674
17 2,3259 1,0698 1,	41961,20101,	14471.0570	0788 0148 850	18007 7653
20 2,25 5 3 1,65 32 1,	A 1 D 211 3 4 5 5 5 1 1 3	A the Distance of	17/ 1/7 - 1 2/	3
22 2,2139 1,6425 1,	40711,25311,	13801,048	9742 9109 85	680667625
23 2,1946 1,6372 1,	40101,24001,	13031,047	80720.008085	080507611
25 2,1584 1,6269 1,	3979 1,2445 1,	13311,044	9708 9079 85	308043 7604
20 2,1413 1,02181,	39191,2424	12081-041	8 9686 9060 85	3 8027 7590
29 2,0939 1,6069 1				
COLD STREET, S	1 1	tonn I non	#1004 Inoct X4	7017-00717-0031
31 2,0649 1,5973 1	,3745 1,2300 1	,1217 1,035	2 9630 901 2 84	7079897556
[33]2,0378 1,5878 1	,37101,2279	11861.022	6 9508 8992 84	53 7974 7542
36 2,0000 1,5740 1	,3032 1,2210	1112811.028	79:75 8964 84	28 7951 7522
39 1,9652 1,5007	1,3549 1,2159	1,10011,024	6 9542 8935 84	03 7929 7501
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42 1,933 1,5477	1,3468 1,2099	1,100111,02	0051080078	78 7006 7481
45 1,9031 1,5351	1,33881,2041	1,00001.01	72 9478 8879 8	353 7884 7461
48 1,8751 1,5229	1,33101,1904	1,09091,01	25 0446 88518	328 7862 7441
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52 1,8403 1,5071	1,3208 1.1908	08041.00	85 0404 8814 8	200 7832 7414
54 1,8239 1,4994	1,31581,1071	08651.00	61 0282 8706 8	270 7818 7401
57,1,8004 1,4881	1,30831,1010	1,083511,00	21 0351 8769 8	255 7706 7381
60 1,7782 1,4771	1,30101,1701	1,0,921,00	00 9331 77	-39/1/-13
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273	154	6078	6631	5210	5011	5731	5469	5221	4986	4764	4552	4351	4158	3976
372	148	6972	6625	5305	5005	5727	5404	5217	4983	4760	4549	4347	4155	3970
47	141	6966	6620	6300	1000	5722	5400	5213	4979	4757	4540	4344	4152	3957
573	335	6960	6614	6294	5997	5718	5450	5209	4975	4753	4542	4341	4149	3964
073	328	6048	6502	6284	5992	5713	5452	5201	49/1	4746	4535	4330	4147	3961
87	315	6042	6598	6279	5982	5704	5443	5197	4964	4742	4532	4331	4139	3955
97	100	6936	6592	6274	5977	5700	5439	5193	4960	4739	4528	4328	4130	3952
107	302	6930	6587	6269	5973	5695	5435	5189	4956	4735	4525	4325	4133	3949
117	296	6924	6581	6264	5968	5691	5430	5185	4952	4732	4522	4321	4130	3946
127	289	6918	5576	6259	5963	5080	5420	5181	4949	4728	4518	4318	4127	3943
137	283	6912	6560	6218	5958	5082	5422	5177	4945	4724	4515	4315	4124	3940
1 4 7	270	6000	6550	6243	5040	5673	5414	5100	494	4717	4508	4308	4117	3937
167	264	6894	0554	6238	5944	5609	5409	5165	4933	4714	4505	4305	4114	3931
177	257	6888	6548	6233	5939	5664	5405	5161	4930	4710	4501	4302	4111	3928
187	251	6882	0543	6228	5935	5000	5401	5157	4926	4707	4498	42,8	4100	3925
														3922
Total Control	_	The second	177		ALCOHOL: NAME OF TAXABLE PARTY.	ALCOHOLD STREET	a I wondown the	-	1	-	THE RESERVE AND PERSONS NAMED IN	-		3917
227	225	6850	6521	6208	5016	5642	5384	5141	4915	4692	4484	420	4000	3917
23.7	219	685	6516	6203	5911	5637	5380	5137	4907	4689	4481	428	4092	3914
247	212	6847	6510	619	5900	5633	5376	5133	4903	4685	4477	4279	4089	3908
1257	200	0684	10505	0193	1590	25020	75372	5125	14000	4082	4474	1427	14086	3005
207	200	6830	56404	618	5097	5021	5300	5125	4890	4070	4471	427	1408	3 3902
287	18:	682	16480	6178	588	8 561	5 5 3 5 9	5118	4880	4671	14464	1426	5407	3899 3896
1297	181	1681	80484	0173	588	3 501	1 5355	5114	44885	4500	4400	425	3 4074	12803
130,7	179	5 681	20478	010	587	200	7 535	5110	4881	4604	4457	4200	0407	3890
317	168	8 680	7 6473	3616	587	4 560	2 5347	5100	4877	4600	4454	4250	5 406	3887
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35	714	2678	1645	1614	3 585	5558	5 5 3 3	1500	0 486	464	5 444	1424	4.405	3875
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37.7	713	1077	2044	1013	3504	0 557	0532	2 508	2 485	1403	9 4434	1)423	7 404	9 2860
387	712	4070	0043	5012	0584	1557	2531	0507	9 485	2/463	0 4430	3 423	4404	612866
397	711	2670	= 642	5611	8 - 82	2550	7 5 5 1	4507	5 484	403	2 442	423	1 404	3 3863
1 1		66-	06420	0611	2 -82	7 250	2 22.	000	404	4 402	142	1422	4 404	3800
42	710	0674	3641	4610	8 582	2555	4520	2506	7 404	7 462	5 444	7 422	1 403	7 3857
43	709	3 073	8040	9010	3 581	81555	0529	0 505	9 483	3 461	8441	4 421	8 403	1 2852
44	708	7073	2040	41009	9 581	3 554	0.529	4505	5 483	0 461	5 441	0 421	5 402	8 3840
451	708	1072	0039	9000	4580	9555	1 529	9505	1 482	6 461	1 440	7:421	2 402	5 3846
40	706	0671	5628	8 608	4 580	41553	2 5 28	1504	482	2 460	8440	4 420	9 402	2 3843
48	706	3/670	9638	3 607	9570	5552	8 527	7 504	0481	51460	1430	7 420	2 401	9 3840
49	705	7,070	4937	7 007	4 579	10552	4 527	3 503	0481	1 459	7439	4 419	19 401	3 2824
50	705	0000	10/03/	2000	9570	552	520	9503	2 480	8 459	4439	0 419	401	0 3831
51	704	4 669	2 636	7 606	4578	1 551	10 526	5 502	8 480	4,459	0438	7.410	3 400	7 3828
52	703	8008	7030	2005	9 577	7 551	1 5 26	1 502	15 480	0 458	7438	4 418	19 400	4 3825
53	703	5 665	6625	11005	5577	2550	7 5 2 5	7 502	479	7 458	4438	0 41	400	3822
54	702	0667	0634	6 604	5 576	3 540	3 5 2 4	0501	3 178	0 450	77 437	441	30 399	3820
56	701	4 666	4 634	1 004	9575	8 540	94 524	5 500	9478	6 457	3 437	041	77 39	91 381
57	700	8,005	9033	0003	5 575	41549	90 524	1 500	5 478	2 457	70 430	7 41	74 39	88 381
58	700	2005	3 633	1 003	9574	19 54	50 523	7 500	2 477	8 456	66 435	4,41	71 39	85,380
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1	3799	3629	3405	3307	2155	2008	2866	2728	250.	2160	2220	2216	12008
	12/70	3000	15403	3303	13153	13005	12003	12725	2502	2402	2227	12214	12000
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8	3779	3610	3446	3280	3138	2993	2840	2712	2501	2452	2320	2204	2084
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-	2612	3004	344	2004	3 1 3 3	2900	2045	2707	2574	2445	2220	2108	20801
1 4 4	2/14	3001	3430	3282	3120	2084	2842	2700	2000	2442	2218	2206	2078
13	3765	3596	3433	3276	2125	2070	2838	2703	2570	2441	231	2194	2070
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17	3753	3585	3423	3266	2110	2060	2828	2004	2501	2433	2308	2186	2068
100	3/3-1	3300	3420	3604	3113	2907	2020	2080	2007	2420	2201	2180	20041
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						2960							
26	3727	3560	2200	2242	2002	2018	2808	2674	2542	2414	2289	2169	2051
-	J. F. B.	2333	7.7.71	1 - C C C C C C C C C C	3000	and had been the first	4000	23 11 1 74	70 70 70 70 70 70	2400	2283	2163	2045
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32	3710	3544	3383	3228	3078	2934	2794	2658	2527	2399	2275	2157	2039
33	3700	3541	3380	3225	3076	2931	2792	2656	2525	2397	2273	2153	2035
35	3702	3535	2275	2220	2071	2022	2787	2654	2522	395	2271	2151	2033
36	3699	3533	3372	3218	3069	2924	2785	2649	2518	2391	2267	2149	2032
38	3693	3527	2267	2212	2064	2020	2780	2647	2510	2309	2205	2145	2028
39	3691	3525	2365	3210	2061	2017	2778	2643	2514	2307	2203	2143	2026
1000	-	Maria Company	33 - 1		3 - 3 -4	acres a 3	-1131	4040	$Z \in I \cap I_A$	62021	2259	2130	2024
41	2682	3519	3359	3205	3056	2912	2773	2638	2507	2380	2257	2137	2020
43	3679	3514	3357	3200	3054	2910	2771	2636	2505	2378	2255	2135	2018
44	3677	3511	3351	3198	3049	2905	2766	2632	2503	2374	2253	2133	2016
45	3074	3508	3349	3195	3047	2910 2908 2905 2903 2901	2764	2629	2499	2372	2240	2120	2014
47	3668	3503	3340	3193	3044	2901	2702	2627	2497	2370	2247	2127	2010
48	3665	3500	2341	2188	2020	2806	2750	2625	2494	2300	2245	2125	2000
49	3003	3497	3338	3185	3037	2894	2755	2621	2490	2364	2241	2121	2007
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32	3654	2480	2221	2178	2020	2009	2750	2010	2486	2359	2237	2117	2001
52	3651	3487	3328	1175	2027	2884	2746	2014	2404	2357	2235	2115	1999
54	3646	3484	3325	3173	3025	2882	2744	2610	2480	2353	2231	2111	1997
:61	3643	1470	2220	168	2020	28	777	-6-1	-4//	-321	2229	2109	1993
57	3640	3476	3318	3165	3018	2875	2737	2603	2472	2347	2227	2107	1991
58	627	473	3315	3163	3015	2873	2735	2601	2471	2345	2223	2103	1987
60	632	468	3310	100	3013	2870	2732	2599	2469	2343	2220	2101	1986
	- 4	A COLUMN TO THE PARTY OF THE PA			3-2-	1800	and the second	March Street Laboratory	SECURITY BY	2 2 4 1		and the second second	
-	-	-	-		111	Sec	ends.	1920	19001	2040	2100	2160	2220

Seconds.

				Logi	tical	Lo	garit	bms.					149
						Mi	nutes				-	***	-
Se. 38	39		41		43		ACCRECATE VALUE OF	46	The second second	48	49	50	51
111902	18691	759	652	1547	1445	345	1248	152	059	968	878 877	790	704
31978	1867	757	648	1540	443	344	1245	149	056	965	875	787	702
41976	1863	754	647	15421	440	1340	1243	148	054	963	874	786	700
5 1074	18521	17521	1045	1540	1438	1339	1241	140	053	962	872	785	699
61972	1860	1750	643	1539	437	337	1240	145	050	959	869	782	696
71970	1856	746	1640	1535	1433	1334	1237	141	048	957	868	780	694
911067	1854	1745	1638	1534	1432	1332	1235	1401	047	956	866	779	693
10 1965	1852	1743	1636	1532	1430	1331	1233	130	045	954	865	777	692
111963	1850	1741	1634	1530	1428	1329	1232	137	044	953	863	776	689
12 1961	1849	739	1621	1520	1427	1327	1230	134	04	950	860	773	687
114 1957	1845	1726	1020	1525	1423	1324	1227	132	039	948	859	772	686
ILCHOSE	1842	1724	1027	1523	1422	1322	1225	1134	3/1	947	857	770	685
Infiltora	1841	1-22	1021	1522	1420	1321	1224	1 249	10301	945	856	769	682
17 1951	1839	1730	1622	1518	1417	1317	1222	1126	1033	942	853	766	680
1101048	11820	1727	1020	1510	1415	1310	1210	* * * *	1031	941	852	764	679
201946	1834	1725	1010	1515	1413	1314	1217	1125	030	939	850	763	678
21 1044	1822	1723	1617	1513	1412	1313	1216	1121	1028	938	849	762 760	676
22 1042	1820	1721	1015	1511	1410	1311	1214	1119	104/	935	847 846	759	673
23 1940	1828	1719	1612	1510	1407	1308	1211	1116	1024	933	844	757	672
1241026	dr Soel	1916	1010	1500	1405	1300	1200	1115	1042	932	843	756	
201024	11822	1714	1008	1504	1403	1304	1200	* * * * 5	1021	930	841	754	669
27,1933	11821	1712	1000	1503	1402	1303	1200	1112	1019	929	840 838	753	666
THE RESERVE TO SERVE THE PARTY OF THE PARTY	1 - 0 1	Street Section 1	4 Sec. 25	* ***	TAON	11 200	1 2000	I I CHES	110:0	926	837	750	665
30 1927	1810	1707	1001	1498	1397	1290	1201	1107	1015	924	835	749	-
21 1025	11814	1700	1500	1400	1395	1290	1200	1103	1013	923	834	747	
22 1025	11812	1701	1500	1404	11 20 3	243	1190	1104	1012	921	833	740	
33 192	1810	1702	1590	1493	1392	1291	1195	1101	1008	1918	830	743	
In attack to	STANCE.	LEPACE SI	11 5 (1) 2	0.6-2010	11200	14 ZUL	1 4 4 4 4	I woulded	100/	1 4 /	828	741	
1 - 6 1	SIN DOC	BE Front	IT COL	11.455	11207	11200	011112	11000	12001	1 4 1 1	827		1
37 191	11 XO2	ITOOA	11 5 50	11450	11205	120	1114	1. Oyo	1.004	4	824		
201016	17700	liboi	11585	11482	11302	120	3110/	11093	1001	911	822		651
40 190	51797	11080	11504	1401	1300	120.	1100	1091	777	309	-	734	
411100	1705	1687	1582	1470	1378	1250	1184	1090	998				
122100	11704	11686	11 500	1477	11377	1127	0,1102	1000	1990				
43 190	2 1702	11584	11570	11470	1375	127	7,1101	100/	1 995	ALCOHOL: THE	100	0.000	
145 180	011788	11000	11575	11472	11372	12/1	41 4 4 / 6	11004	1 77	902	814	727	642
1461180	71780	1078	11573	1470	91370	11-1	411/0	11002	1 990		1 0		100000000000000000000000000000000000000
1401280	-11-8-	11075	11571	1400	1120	11270	3,1174	1001	1 900	899 897			1 2 4
48 189	3 1783	1675	1570	1407	1307	126	1171	1078	986				
50188	01770	1671	1566	1464	136	126	1170	1076	984				1 7
1-1-00	Vanna	1:600	1505	1462	1 262	120	11105	1074	983		809		
1001188	Altone	11608	91503	1400	11300	1120	211101	10/3	1 901	891	1 803		
1521188	41774	11000	11501	1450	11350	1120	1110	10/1	900				
54 188	2 1772	666	1559	1457	1357	125	1162	1068		1 1000	799	713	628
106487	811768	ICOIN	HCCC	1454	11254	1125	MILLOC	1.00/	19/0	885	798	711	627
1001180	611766	11050	1554	1452	11352	25	111175	11005	19/4	100 Mg	100000		1000
-8-8-	- I to the	11000	11552	111150	MI 250	1 2 4	511 13/	1.004	1 9/"	1 00	793		100000000000000000000000000000000000000
59187	DECMPSE	A T. P. C. A	HERE ALC	11 4 4 7	1000000	A week	45 A A 3 7	A 200 MILES	975.9	880	792	70t	621
S. 228	701	2400	2.60	2520	2580	2640	2700	2760					v-h-
0. 228	42340	72400	40400	17720	1-10-	0	1		70 300	-	-	10-10-	-

Seconds.

the same of the same			-				_	_
FT.	- 6	Th		177	XX	***	T 1	
100	14	ĸ		1 H 1 H 1	XX	XI	100	
	4.4	- 2.5		-	43.43	A 1	_	4.1

-	5	,			T	A	BI	E	XXX	VI.		750		
						li pres	Mall A	Minn	ites					
13	1	52	53	54	55	56	57	58	59 60	61	1 62	63	64	65
1	1	620	537	456	3774	298	221	146	07z 9999	9927	9856	9787	9719	9651
1	3	617	535	455	375	297	210	145	071 9998	0025	0054	14705	4710	NOD A CH
1	4	619	533	452	373	294	218	142	008/0000	0022	0852	19704	9715	19048
1	5	613	532	451	371	293	215	141	067 9994	9922	9852	9781	9714	9646
	7	612	529	448	369	291	214	139	064 9992	9920	9849	780	9712	9645
1	8	600	528	447	367	289	213	137	062 9989					
1	10	608	525	444	365	287	210	135	061 9988					
	11	606	524	443	363	285	200	134	060 9987	9915	9845	9775	9707	9540
-	13	603	522	442	36z 361	284	208	132	058 9986	9914	9844	9774	9700	9639
	14	602	520	439	359	282	205	130	056 9981	9912	9841	9772	9704	9637
	15	601	518	438	358	280	204	129	055 9982	9910	9840	9771	9703	9636
	17	599	517	435	357 356	279	201	127	053 9981	9909	9838	9709	9701	9633
-	18	596	514	434	354	276	200	125	051 9978	9907	9837	19707	9699	9532
	19	595	513	432 431	353 352	275	199	124	050 9977	9900	9835	9700	9098	9031
	21	592	510	430	350	-	196	121	047,9975					
- 1	22	591	509	428	349	271	195	120	046 9974	9902	9832	9763	9695	9628
- 3	23	590	507	427	348 346	250	194	119	045 9971	9901	9831	9702	19094	9F27
	25	587	505	424	345	267	191	116	042,9970	9899	9829	9759	9692	9625
- 1	25	585	503	423	344	265	189	115	041 9960	9897	9827	9758	9690	9624
	28	583	501	420		264	187	114	039 9966	9895	9825	9756	9688	9621
	29	581	499	419	340	262	186	077-117	038 996	9894	9824	9755	9687	9620
	31	579	-	418	_	261	184	110	036 996	The second section is	-		-	The second second
	32	577	495	415	336	258	182		035 996					
13	33	576	494	414	335	257	181	106	033 9960	9889	9819	9750	9683	19510
	34			411	333	256	179		031 995	919888 810887	9818	9749	0680	9615
133	36	572	490	410	331	253	177	103	029 995	79886	9816	9747	9679	19612
	37	570	489	497	329		176		028/995	5 9885	9815	19746	9678	9511
- 1	39	568	486	406	327	250			025 995	39882	0812	19744	9076	10610
	40	566	Berketenne.	_	an application	-	-	-	024 995	29881	9811	9742	9675	9618
	41	565					171	096	023 995	9880	9810	9741	9674	9007
	43	562					169	094	022 9950	39877	9808	9739	9671	600
	44	561	479	399	100000000000000000000000000000000000000		167	093	019994	79876	9807	19738	9670	0601
	46						166		018 994	19874	9805	9737	9069	9603
	47	557	475	395	316	239	163	089	0101994	19873	9803	19734	9007	0600
_	48	555 554			315		162	088		10872	9802	9733	9666	9599
	50	552	A CONTRACTOR OF THE PARTY OF TH	391	313		160		013 994	9869	9800	9731	9664	9598
	51	551	470	390	10,9967.63	234	158	084	011 9930	99868	9798	9720	9662	0006
	53	550					157		010,993	9807	9707	9720	9001	DEAL
1	54	547	466	386	307	230	155	080	007 993	1000	19705	9727	10000	OFAR
1	55	546		384 383	No. of Concession	229	153	079	00019934	19803	19794	1725	10058	OFOR
-	57	543	462	382	305		152	078	005 993	110002	0702	0724	10057	nego
1	58	541	460	381	302	225	150	075	00219931	19800	9790	9722	10055	3F88
	59 60	540	459	379 378	300	224	148	074	00119920	19059	9789	9721	19053	0587
_	-				3300	3360	3420	3480	3540 3600	3560	2720	2780	9052	9586
	-		-	-			Sect	nde	777-13000	1,3000	3/20	3/00	3040	13900

Seconds.

					Logi	stical	Lo	garit	bms.	1/				151
S. 66 67 68 69 70 71 72 73 74 75 76 77 78 79														
	66	67	68	69	70	71	72 [73	74	75	76	77	1 78	1 79
1 0	9585	9520	9455	9392	9329	9268	9207	9147	9088	9030	8972	8916	8860	8804
2	9584	9519	9454	9391	9328	9267	9206	9146	9087	9029	8971	8915	8850	8803
3	9503	9518	9453	9390	9327	9266	9205	9145	9080	9028	8971	8014	8850	8802
5	9581	9515	9454	9389 9388	9325	9264	9204	9144	0084	9026	8050	8012	8856	8801
6	9579	9514	9450	9387	9324	9263	9202	9142	9083	9025	8968	8911	8855	8800
7	9578	9513	9449	9386	9323	9262	9201	9141	9082	9024	8967	8910	8854	8799
0	9577	9512	9448	9385	9322	9201	9200	9140	9081	9023	8966	8000	2885	8798
10	9575	9510	9446	9383	9320	9259	9198	9138	9000	9021	896	890	885	8796
_		1	1	9381	I THE REAL PROPERTY.	100000000000000000000000000000000000000		ALCOHOLD STREET	The second second	ALC: UNKNOWN WATER	The same of the sa			T-memorine.
12	9573	9508	9444	19380	19318	19257	9196	9136	9077	9019	8962	890	5 8840	18794
13	957	0507	944	9379	9317	9256	9195	9135	9076	9018	8961	1890	4884	98793
15	957	19500	944	9378	9310	9255	9194	9134	9070	9017	18050	800	2884	8702
16	956	950	19439	9376	9314	9253	9192	9132	9074	901	8958	8890	2884	68791
17	956	7950	2943	89375	9313	9252	9191	9131	9073	9019	8957	890	1884	5 8790
10	950	950	943	9374	9312	9251	9190	9130	9072	9012	18950	880	0884	18789
20	956	19490	0013	9373	9310	9240	9188	0128	9070	901	895	1889	8884	28787
21	056	3 949	043	4 0371	0300	924	9187	9128	9060	901	895	880	7 884	18780
22	956	2949	7943	49371 39379 29359	9308	9247	9186	9127	9068	901	895	2889	6884	0878
23	956	1949	943	2 9309	930	924	9189	9120	906	9000	895	2889	5 883	9878
25	950	0040	1043	19368	020	924	018:	912	006	000	805	0880	2 883	7878
26	955	8949	3 942	99366	930.	1924	918	912	906	1900	5894	9889	2 883	7878
27	955	7949	2942	8 9360	930	3924	19181	912	906	3,900	5 894	8888	1 88	6878
20	955	5 949	1942	7936	930	2924	00120	912	900	2900	4894	6888	0 88	15 870
30	955	3948	8942	5 936:	930	0923	8,917	911	906	0,900	2 894	5 888	8 88	3 877
31	1055	2048	7942	4 936	020	0023	7917	7 911	8 905	9900	1894	4 888	88 38	32 877
122	COLE	11048	6012	20100	2020	8022	6017	LIOIC	7.005	2000	01504	2000	57 88	211677
33	955	0948	5 942	1935	929	7923	5917	911	0,905	7899	9894	1088	86 88	30877
35	1954	8048	3041	9935	6020	4923	3917	3 911	4,905	5 899	7894	088	84 88	28877
136	954	7948	2941	8 935	5 929	3923	2917	2911	3 905	41899	6 893	9888	53 88	27 877
137	7 954	6048	1 941	7 935	41929	2923	1917	1911	2 905	3 899	5 893	888	2 2 88	20 877
30	954	5 940	0041	6 935 5 935	3 929	1923	0917	911	0 005	1899	3 803	688	80 88	25 877
40	0954	2947	941	4935	1 928	9,922	8916	8910	9 905	0.899	2 893	5 88	79 88	24 876
14	1 054	11047	77 041	3 025	0 928	8022	7916	7.010	8 904	0890	2 893	5 88	78 88	23 876
12	200	marca	filma 1	2024	0028	7022	6010	DOIG	7 004	8.800	11000	400	フクリグロ	221070
14	3055	20047	75/04/	1934	8 928	0,022	5910	5 910	0.004	7000	10/09	3300	70,00	211070
14	5000	27/045	72040	00034	01928	4922	3910	3910	4.904	5/890	1000	31100	75100	19 370
14	blos	2604	71040	081034	5 928	3022	2910	2010	3 904	14/893	17 801	000	74.00	100000
14	795	35 947	70 940	27 934	4928	2922	11910	1,910	2 904	13/89	16/08/	29 00	73100	17/37
4	0 95	34949	09.949 68.040	06 934	2028	0021	0015	9010	0 004	280	3 80	27 38	71,88	15 87
5	095	3294	67 949	04934	1927	19 921	8915	8 909	9 904	1 89	3 89	26 88	70,88	14 87
15	105	2004	66 04	02 034	0,92	8921	7915	7 900	8 90	1089	82 89	25 88	69,88	1387
15	205	20/04/	65 04	01 033	0.927	77921	6/915	01900	7 90	30/89	51 09	24 00	02/88	13 87
1 :	2000	28 mat	DAGA	99,933	8 02'	70021	15015	5 000	0000	20100	80100	23 00	07/80	1207
12	2012	20011	0202	08 022	0 02'	74 92	1301	3100	14 90	30100	70109	21 00	105100	110107
R	:605	25 04	6103	07/03:	35 92	73 92	1291	2190	73 99	35/09	77109	ZOIGE	04 82	00007
10	7705	24 04	0003	00003:	14 92	7202	ILOI	1100	11190	34109	70109	14100	003101	000107
15	8 95	2394	5993	95 93 94 93	33.92	71/92	1001	1000	90 00	33 09	75 09	188	8618	8068
1	995	2104	5602	94 93	31 92	69 92	0891	48 90	89 90	3180	73 80	17 8	8618	805 87
2.50														

1 1 5	,2		*	AD			AAVII.		
CL	. Nep.	1.00	CL.	Nep.	Log	CL	Nep. Log	CL.	Nep. Log
-		00,000	-	1.45,0	52.861	120	2.90,125,723	180	
000	02.20	02,585	054	1.47,3	65.446	127	2,92,428,307	190	14.37,401,167
002	.04.60	05.170	065	1.49,6	68,031	128	2,94,730,892	191	1.39,793,752
003	. 06.90	7,755	056	1.51,9	70,617	129	2,97,033,477	192	1,42,006,337
004		10,340		1.54,27		130	2.99,336,062	193	4 44,398,922
005		12,925	068	1.56,57	75,787	131	3.01,638,647	191	4 46,701,507
006	. 12.81	15.510	069	1.58,87	78,372	132	3 03,941,232	195	4.49,004,092
007	. 16,1	18,096	070	1.61,18	50,957	133	3.06,243,817	190	4.51,300,078
008		20,681	071	1.63,48	3,542	125	3.08,546,402	197	4.53,009,203
000		23,266		1.65,78			THE RESIDENCE OF THE PERSON NAMED IN	manufacture.	4.55,911,848
010		25,851		1.68,08	58,712	130	3.13,151,573	199	4.58,214,433
011	. 25,32	28,436		1.70,39	1,297	128	3.15,454,150	200	4.60,517,019
012	. 27 6	31,021		1.72,60	13,002	130	3.20,059,328	201	4.62,819,604
013		33,606	070	1.77,20	0.052		3.22,361,913	202	4.67.121.771
014	- 32,23	8,776		1.79,60	01.637	141	3.24,654,498	204	1.69.727.250
015		1.262	079	1.81,90	1,222	142	3.26,967,083	205	4.72,020,044
017				1.84,20		143	3 29,269,668	206	4.74,332,530
018				1.86,50		144	3.31,572,253	207	4.76,635,115
019			082	1,88,81	1,977	145	3 33,874,838	208	4.78,937,700
020	The second second		083	1.91,11	4,562	146	3.36,177,424	209	4.81,240,285
021	. 48,35	CONTRACTOR OF THE PARTY OF THE		1.93,41		147	3.38,480,000	210	4 83,542,870
022	. 50,65	6,872	085	1.95.71	9,732		3.40,782,594		
023	. 52,95	9,457		1.98,02		149	3.43,085,179	212	4.88,148,040
024	- 55,26	Control of the last		2.00,32		150	3.45,387,764	213	4 90,450,625
025	- 57 56			2.02,62			3.47,690,349		
026	. 59,86			2.04,93			3 49,992,934		
027	. 62,16	The second second		2.07,23			3 52,295,519		
028	. 66,77			2.11,83		155	3 56,900,689	218	5.01,063,551
029		-	-	-		200-10	3.59,203,275		CONTRACTOR AND ADDRESS OF THE PARTY NAMED IN
030	.69,07	1 4 2 3 3 4 1	004	2.14,14	2,008	157	3 61,505,860	220	5.06.668 771
031	.71,38	Control of the Control		2.18,74			3.63,808,445		
032	.75,98			2.21,04		159	3.66,111,030	222	5.11,173 801
034	. 78,28	ALC: NO.		2 23,35		160	3.68,413,615	223	5.13,476,476
035	. 80,59			2.25,65		101	3.70,710 200	224	5.15,779,061
1036	. 82,89	2.064	099	2.27,95	5,924	102	3 73,018,785	225	5.18,081,646
037	. 85,19		100	2,30,25	8,500	103	3.75,321,370	220	5.20,384,232
038	. 87,49	8,234	101	2.32,56	1,094	165	3.77,623,955	227	; 22,086,817
039	. 89,80			2 34,86			3.79,926,540		
040	. 92,10	and the same of th	103	2.37,16	6,264	100	3.82,229,126	229	27,291,987
041	. 94,40	2-1 16		2.39 46		168	3.84,531,711	30	1.29,594,572
042	.96,70	100 100 100 100 100 100 100 100 100 100	105	2.41,77	1,434	160	3.86,834,296	31	31,897,157
043	. 99,01		100	2 44,07	6.60=1	170	3.89 136,881 2 3.91,439,466 2	22	34,199,742
044	1.01,31		108	2.48,67	0,100	171	3.93,742,051	34	38.804 012
	1.05,91		100	2.50,98	1,775	172	3 96,044.636	35	:41,107,407
047	1.08,22	1,500	110	2.53,28	4,360	173	3 98,347,221 2	36/5	43 410,083
048	1. 10,52	4,085 1	111	2.55.580	6,945	174	4.00,649 806 2	37 5	5.45,712 668
049	1. 12,820		1122	2.57,88	9,530	175	1.02,952,3912	38 5	5.48,015,253
Section 1	1.15,129		132	60,19	2,115	176	105,254,976	39	5.50,317,838
051	1. 17,43	1,840	1142	.62,49	4,700	177	1.07,557,561 2	40	.52,620,423
052	1. 19,73	1,425 1		.64,79	7,285	178	1.09,860,1462	415	:54,923,008
053	1. 22,037	7,010		.67,099		1794	12,162,7312	42 5	-57.225.503
10541	. 24 33	7,595 1		69,40	2,450	180	14,465,3162	43 5	.59,528,178
	26,642	Section 1		.71.709	626	182	16,767,9012	44/5	.01,830,763
	. 28,944	The state of the s		.74,007	211	182	.19,070 486 2	45 5	66 435,348
	. 31,247		21/2	78,612	.706	184	.23,675,6562	47 3	68 728 710
	· 33,549		22 2	.80,915	.381	185	.25,978.2412	48 5	71.041.104
				.83,217	066	186	28,280,827 2	- 2	72 242 68
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20015 8	2.554.020	210	7. 27,010,000	3791	8 72,679,750,4	42 10	.17,742	2,611
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1200 C 0	1 201 200	320	7. 30,027,230	3931	8.81,890,090 4			
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2510.0	0,974,709	324	7.46,037,570	307	891,100,4314	-		-
2626.0	3,277,294	325	7.48,340,155	388	8 93,403,0104			
12626.0	5,570,870	320	7.50,042,741	309	8.95,705,60:14			
264 5.0	7,882,404	327	7.52,945,32	390	8.98,008,1864	53110	43,071	,047
2050.1	0,185,049	320	7. 55,247,911	202	9.00,310,7714	24 10	47 676	3,032
2000.1	2,407,035	220	7. 57,550,496 7. 59,853,081	202	9.04,915,9414	56110	40.07	8.802
2070.1	7,790,220	221	7. 62,155,666	204	9.07,218,526	57 10	52.28	1.287
1-6-16	0 2 2 700	2221	7. 04.150.251	12021	9.09,521,1114			
100000. 2	1.007.075	333	7.00,700,030	1340	9.11,823,697			
2710.2	4,000,500	1334	7.09,003,441	397	9.14,126,282			
6	6	1000	7. 71.266.006	2081	9.16,428,857	16110	0.61,40	1,727
272 1. 2	8,005,720	1336	7.73,068,592	393	9.18,731,452	62 10	0.63,79	4,312
2746. 2	0,903,315	337	7. 73,068,592 7. 75,971,177 7. 78,273,762	400	9.21,034,037	13110	0.66,09	6,897
					9.23,336,622	1 4 10	0.68,39	9,482
12265. 2	15.512.486	1339	7.00,570,34	402	9.25,639,207			
Janalo.	7.816.071	1340	17. 02,070,933	403	9 27,941,792			
10-06	10.118.606	241	17.05.101,517	104	9.30,244,377	107 10	0.75,30	7,238
2796.	12,421,24	342	7. 87,484,10	405	9.32,546,962	10811	0.77,00	9,823
2800.4	14,723,820	3+3	7. 89,786, 87	400	9.34,849,548			
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2876.	60.811.02	2 350	8. 09,207,36	3 413	9.50,967,643	476 1	0'95,03	0,504
2886.	63.144.50	7,351	8. 09,207,36	414	9.53,270,228	477 1	0.98,33	3,089
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2036.	74,657,43	2 356	8. 17,417,70	3 119	9 64,783,154	4821	1.09,84	6,014
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12006	70.262.60	21250	88. 24,325,40	3 421	0.00,388,324	1041	1.14,45	1,184
10066	81. chr. 18	81226	10 20,020,04	0 422	0.71,000,000	186	1.10,75	3,709
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3010.	07.070,11	8 46	8.40.412.55	8 . 28				
3020.	95,300,09	2 25	8. 40,443,55 8. 42,740,14	11420	9.87,809,003	4021	1,32,85	1,865
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20 7.	04,501,03	9 36	08.49,053,8	9432	9.94,716,760	4951	1.39,77	9,620
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1	508	11.60,713,227	570	12.12.472.50	0031	14.52,9	131,19	4 093	15.95,691,4	69
-	509	11.72,015,812	571	13.14,776,08	6633	4 57,5	36.36	9 94	16.00,296,6	30
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15	39	12.38,790,780 (12.41,093,365 (12.43,305,950 (100	3,83,853,64	1 663	5 26,0	13,916	7251	6.69,374,19	7 2
1	41	12.45.008.535	002	2.88.458.81	666	5 20,9	10,501	720	0.71,070,77	8
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15	47	12.59,514,046	1001	4.02.274.22	070	5 42,7	32,012	732	6.85,492,28	8
15	50	12.66,421,8016	1121	4.00, 182, 07	073	5 49,0	39,707	735	0.92,400,04	3
15	51	12.68,724,386	131	4.11,484,66	2675	5.54,2	14,937	737	6.97,005,21	9
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15	56	12.80,237,3126	181	4-22-007-58	680	5.03,45	5,278	741	7,00,215,55.	4
15	591	12.87,145,067	211	4 20,005 241	680	5.70,30	3,033	7441	7,13,123,300	9
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752 7-31,543,990 814 18.74,304,26; 27-120,19,367,122,93; 21.50,824,818 75317-33,846,575 815 18.76,666,850 87-720,19,367,122,942 21.66,732,573 75417-36,149,160 81.618.78,909,0435,87\$ 20.23,072,297 041 21.66,732,573 75617-49,754,330 818 18.81,212,021 87-920,23,972,297 041 21.66,732,573 75617-49,754,330 818 18.85,11,191 881; 02.85,774,467,943 21.71,337,743 758 7-45,359,500 820 18.88,119,776 882 20.30,880,052 044 21.75,640,328 75917-42,662,085 821 8.95,027,531 883 820,33,182,637,945 21.75,640,328 760 77-49,964,670 822 18.90,422,361 885 20.37,787,808 047 27.54,569,840 824 18.97,330,116 887 20.42,392,978 894 21.85,13,254 760 17-52,67,255 823 18.96,27,753 885 20.42,090,930 3048 21.85,13,654 760 17-59,175,010 826 19.01,935,287 886 20.42,090,930 3048 21.85,13,654 760 17-59,780,181 828 19.05,240,459 897 20.42,392,978 894 21.85,13,654 760 17-60,882,766 820 19.08,843,042 891 20.51,003,318 953 21.87,455,839 765 17-60,882,766 820 19.08,843,042 891 20.51,003,318 953 21.94,363,594 77-77,759,561 834 19.57,50,779 894 20.53,116,244 958 20.18,714,416 877 77-77,599,501 834 19.20,355,957 894 20.53,116,244 958 20.18,714,416 877 17-75,293,100 838 19.22,658,552 897 20.65,116,244 958 20.18,714,19 10.4777 17-75,293,100 838 19.22,658,552 890 20.72,230,5573,934 772 17-79,898,276 833 19.22,658,552 890 20.72,230,559 97 22.03,573,934 772 17-75,998,276 833 19.22,658,552 890 20.72,230,559 20.21,27,144 960 22.10,481689 775 17.84,559,446 837 19.22,658,552 890 20.72,230,559 20.21,27,384,274 770 17-80,808,278 834 19.52,656,308 20.60,8116,249 91.22,12,99 10.22,12,99 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10.48,179 10
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760 17, 49,964,670 822 18. 92,724,946 88420.35,485,222 94 17. 78,245,499 761 17, 52,267,255 823 18. 95,027,53 1885 20,37,787,808 947 21.80,548,084 763 17. 56,872,425 825 18. 99,632,701 887 20,40,009,593 048 21.82,850,669 763 17. 56,872,425 825 18. 99,632,701 887 20,42,392,978 046 21.85,153,254 764 17. 59,175,010 826 19,01,935,287 888 20,44,695,503 950 21.87,455,839 765 17. 61,477,595 827 19. 04,237,872 889 20 46,998 71.80 951 21.89,758,424 766 17. 66,082,766 829 19. 08,843,042 891 20 51,603 318 953 21.94,363,594 768 17. 76,683,853,351 830 19. 11,145,5027 892 20 53,905,903 954 21.96,365,594 768 17. 76,687,936 831 19. 13,448,212 893 20.56,208,488 955 21.98,968,764 770 17. 72,990,521 832 19. 15,750,797 804 20.58,511,073 956 22.01,271,349 771 17. 75,293,10 833 19. 18,053,382 895 20.60,813,658 957 22.03,573,934 772 17. 77,595,691 834 19. 20,355,597 806 20.63,116,244 958 20.58,76.519 773 17. 79,808,276 835 19. 22,658,552 807 20.65,418,829,591 20.58,179 104 774 17. 82,200,861 836 19. 24,961,138 808 20.67,721,414 960 22.10,481.689 775 17. 84,503,446 837 19. 27,2658,723 809 20.70,23,969 661 12.21,27,84,274 776 17. 80,808,67,833 19. 31,808,893 900 20.72,326,584 902 22.15,088.57 778 17. 89,108,617 839 19. 31,808,893 900 20.72,326,584 902 22.15,088.57 84,119. 36,474,663 903 20.79,324,594 903 22.21,380,444 19. 36,474,663 903 20.79,324,595 907 22.23,570,540 783 18. 02,924,127 845 19. 43,388,818 906 20.88,43,509 20. 20,74,529,160 20. 22.15,088.57 881 8. 03,831,838 848 19. 52,592,159 10. 20.88,44,680 969 22. 31,204,955 786 18. 03,831,838 848 19. 52,592,159 10. 20.88,44,680 969 22. 23,507,540 785 18. 03,831,838 848 19. 52,592,159 10. 20.88,44,680 969 22. 23,507,540 790 18. 12,344,808 853 19. 64,105,084 915 21.00,755,700 97 22.23,8112,710 791 18. 23,344,808 853 19. 64,105,084 915 21.00,755,700 97 22.24,27,17,880 790 18. 13,042,223 85,119, 59,449,914 21.00,755,700 97 22.24,49,555,33391 795 18. 30,555,148 857 19. 73,315,425 919 21.10,075,701 18. 22.56,533,391 790 18. 23,344,808 853 19. 66,407,669 916 21.00,75,750 19. 22.24,27,17,8
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765 7. 61,477,595 827 19. 04,237,872 889 20.46,998,148 951 21.89,758,424 766 17. 63,780,181 828 19. 06,540,457 890 20.51,603,318 953 21.94,363,594 768 17. 68,385,351 830 19. 11,145,627 892 20.51,603,318 953 21.94,363,594 769 17. 70,687,936 831 19. 13,448,212 893 20.55,208,488 955 21.98,968,764 770 17. 72,990,521 832 19. 15,750,797 894 20. 58,511,073 956 22.01,271,349 771 17. 75,293,100 833 19. 18,053,382 895 20.60,813,05 895 22.03,573,934 772 17. 77,595,691 834 19. 20,355,967 896 20.63,111,244 958 22.05,876.519 773 17. 79,898,276 835 19. 22,658,552 897 20.65,712,141 960 22.210,481.683 775 17. 84,503,446 837 19. 27,263,723 899 20.70,023,909 601 22.112,784.274 776 17. 86,806,032 838 19. 29,566,308 900 20.774,629,169 903 22.117,389,444 778 17. 91,411,202 840 19. 34,171,478 902 20.70,023,909 903 22.117,389,444 778 17. 91,411,202 840 19. 34,171,478 902 20.70,023,909 903 22.17,389,444 778 17. 98,318,957 842 19. 35,474,603 903 20.774,629,169 903 22.17,389,444 778 17. 98,318,957 842 19. 38,770,618 904 20.81,536,924 90 02.224,279 20.928,179 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279,279 90.922,279,279 90.922,279 90.923,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90.922,279 90
765 17, 63, 780, 181 828 19, 08, 540, 457 890 20 49, 300, 733 395 21; 92 061, 009 767 17, 66, 082, 766 829 19, 08, 843, 042 891 20 51, 603, 318 953; 21.94, 363, 594 768 17, 608, 385, 351 830 19, 11, 145, 627 892 20 53, 905, 903 954; 21.96, 666, 179 769 17, 70, 687, 936 831 19, 13, 448, 212 893 20, 50, 208, 480 955; 21.08, 968, 764 770 17, 72, 990, 521 833 19, 15, 759, 797 894 20, 58, 511, 073 956; 22 01, 271, 349 17, 775, 293, 100 833 19, 18, 053, 382 895; 20.60, 813, 658 957; 22.03, 573, 934 17, 79, 898, 276 835; 19, 22, 658, 552 897; 20.65, 418, 829, 959; 20.68, 179, 104 17, 82, 200, 861 836 19, 24, 661, 138 898; 20.67, 721, 414, 960; 22.10, 481, 689 775, 17, 84, 503, 446 837; 19, 27, 263, 723 899; 20, 70, 23, 909, 961; 22.112, 784, 274, 776 17, 80, 806, 032 838 19, 29, 566, 308 900; 20, 72, 326, 584, 962; 22.15, 086, 859; 777, 17, 89, 108, 617 83; 19, 31, 868, 893; 901; 20, 74, 629, 169; 903; 22.17, 389, 444, 7817, 91, 411, 202 840; 19, 34, 171, 478; 902; 20, 76, 931, 754; 904; 22.19, 092, 029; 7817, 93, 713, 787; 84119, 36, 474, 603; 903; 20, 79, 2343, 319; 965; 22.21, 909, 209; 7817, 98, 318, 957; 844; 19, 36, 474, 603; 903; 20, 79, 2343, 319; 965; 22.21, 909, 967; 82.24, 297; 200; 7818, 20, 20, 12, 12, 12, 12, 12, 12, 12, 12, 12, 12
76817. 68,385,351 830 19. 11,145,627 892 20 53,905,903 954 21.96, 66,179 769 17. 70,687,936 831 19. 13,448,212 893 20.56,208,488 955 21.08,968,764 770 17. 72,990,521 832 19. 15,750,797 894 20 58,511,073 950 22.01,271,349 771 17. 75,293,100 833 19. 18,053,382 895 20.60,813,658 957 22.03,573,934 772 17. 77,595,601 834 19. 20,355,967 896 20.63,117,244 958 22.20,5876.519 773 17. 79,898,276 835 19. 22,658,552 897 20.65,4 8,829 959 2.208,179 104 774 17. 82,200,861 836 19. 24,961,138 898 20.67,721,414,960 22.10,481.689 775 17. 84,503,446 837 19. 27,263,723 899 20.70,023,999 961 22.112,784,274,776 17. 80,806,032 838 19. 29,566,308 900 20.72,326,584 962 22.15,086.859 777 17. 89,108,617 839 19. 31,868,893 901 20.74,629,169 963 22.17,788,444 778 17. 94,411,202 840 19. 34,471,478 902 20.76,931,754 94 22.19,092,029 779 17. 93,713,787 841 19. 36,474,063 903 20.79,234,330 965 22.21,90,90,02,029 781 17. 98,318,957 843 19. 41,079,233 905 20.88,183,957 90 22.24,297 200 781 17. 98,318,957 843 19. 41,079,233 905 20.88,182,93,948 22.28,902,370 783 18. 02,924,127 845 19. 45,584, 03 907 20.88,184,680 969 22.31,204,955 782 18. 00,621,542 844 19. 47,986,989 908 20.90,747,265 970 22.23,35,70,540 785 18. 09,831,883 848 19. 50,828,574 909 20.93,304,850 971 22.35,810,125 788 18. 14,437,053 850 19. 57,197,329 912 20.99,957,905 973 22.44,271,7880 789 18. 12,134,468 849 19. 54,894,744 911 20.97,655,020 973 22.24,271,7880 788 18. 14,437,053 850 19. 57,197,329 912 20.99,957,905 973 22.44,271,7880 789 18. 12,134,468 849 19. 54,894,744 911 20.97,655,020 973 22.24,271,7880 789 18. 12,134,468 853 19. 64,105,084 915 21.00,865,360 977 22.23,38,112,710 18. 23,344,808 853 19. 64,105,084 915 21.00,865,360 977 22.24,97,17,880 790 18. 23,344,808 853 19. 64,105,084 915 21.00,865,360 977 22.24,97,17,880 790 18. 23,344,808 853 19. 64,105,084 915 21.00,865,360 977 22.24,97,17,880 790 18. 23,544,998 855 19. 68,710,254 917 21.11,470,531 979 22.54,533,976 790 18. 23,544,998 855 19. 68,710,254 917 21.11,470,531 979 22.54,533,976 790 18. 23,544,808 918 22.56,833,9
729 17. 70,687,936 831 19. 13,448,212 893 20. 56,208,488 955 21.98,968,764 770 17. 72,990,521 832 19. 15,750,797 894 20. 58,511,073 956 22.01,271,349 17. 75,293,100 833 19. 18,053,382 895 20. 60,813,658 957 22.03,573,934 17. 79,595,691 834 19. 20,355,967 896 20. 63,116,244 958 22.05,876,519 17. 79,898,276 835 19. 22,658,552 897 20. 65,4 8,829,959 12.08,179 104 17. 82,200,861 836 19. 24,961,138 898 20. 67,721,414 900 22.110,481.689 17. 84,503,444 6837 19. 27,263,723 899 20. 70,023,999 961 22.12,784,274 776 17. 80,806,032 838 19. 29,566,308 900 20. 72,320,584 962 22.15,080.859 19. 31,868,893 901 20.74,629,169 903 22.17,389,444 17. 92,411,202 840 19. 34,171,478 902 20.70,931,754 904 22.19,092,029 17. 93,713,787 841 19. 36,474.063 903 20. 79,234,319 905 22.21,99 ,614 78017. 96,016,372 842 19. 38,776,618 904 20.81,536,922 96 22.24,297 200 781 17. 98,318,957 843 19. 41,079,233 905 20. 88,484,680 909 22.37,599,785 782 18. 00,621,542 844 19. 43,38 1818 906 20.86, 142,93 968 22.24,297 200 783 18. 02,924,127 845 19. 45,684,03 907 20. 88 444,680 909 22.31,204,955 784 18. 05,226,712 846 19. 47,986,987 400 20. 97,655,002 97 22.23,35,07,540 785 18. 07,529,297 847 19. 50,289,574 900 20. 93,049,850 971 22.33,507,540 785 18. 07,529,297 847 19. 50,289,574 900 20. 93,049,850 971 22.33,810,125 786 18. 09,831.83 848 19. 52,592,159 910 20. 95,552,435 972 22.33,507,540 785 18. 10,739,638 851 19. 59,499,914 913 21.02,260,190 975 22.44,717,880 780 18. 19,042,223 852 19. 61,802,499 914 21.04,562,775 976 22.47,717,880 792 18. 23,647,393 854 19. 66,407,669 916 21.09,107,941 978 22.55,533,391 795 18. 23,547,393 854 19. 66,407,669 916 21.09,107,941 978 22.55,533,391 795 18. 23,555,548 857 19. 73,315,425 919 21.11,470,531 979 22.56,533,391 795 18. 30,555,148 857 19. 73,315,425 919 21.11,675,7018 82.25,61,128,661
770 17 -72,990,521 832 19 . 15,750,797 894 20 58,511,073 956 22.01,271,349 17 . 75,293,100 833 19 . 18,053,382 895 20.60,813,658 957 22.03,573,934 19 . 20,355,967 896 20.63,116,244 958 22.05,876.519 17 . 77,595,691 834 19 . 20,355,967 896 20.65,418,829,959 12.08,179 104 17 . 82,200,861 836 19 . 24,961,138 898 20.67,721,414,960 22.10,481.689 17 . 84,503,444 837 19 . 27,263,723 899 20 70,023,909 901 22.112,784,274 17 . 80,806,032 838 19 . 22,566,308 900 20 . 72,326,584 902 22.15,086.859 17 . 84,503,446 837 19 . 27,263,723 899 20 70,023,909 901 22.15,086.859 17 . 80,806,032 838 19 . 29,566,308 900 20 . 72,326,584 902 22.15,086.859 17 . 89,108,617 839 19 . 31,868,893 901 20.74,629,169 903 22.17,389,444 17 . 91,411,202 840 19 . 34,171,478 902 20.76,931,754 94 22.19,692,029 17 . 93,713,787 841 19 . 36,474.063 903 20.79,234,319 905 22.21,99 ,614 17 . 96,016,372 842 19 . 38,776,618 904 20.81,536,921 96 22.24,297 200 18 17 . 98,318,957 843 19 . 41,079,233 905 20.88,839,509 907 22.26,599,785 18 . 00,621,542 844 19 . 43,38 8,818 906 20.86, 42,055 907 22.26,599,785 18 . 05,226,712 846 19 . 47,986,989 908 20 . 90,747,265 970 22.33,507,540 20.93,543 597 22.33,810,125 78618 . 09,831,838 848 19 . 52,592 150 910 20.95,352,435 972 22.33,810,125 78618 . 09,831,838 848 19 . 52,592 150 910 20.95,352,435 972 22.33,810,125 78618 . 09,831,838 848 19 . 52,592 150 910 20.95,352,435 972 22.33,810,125 78618 . 09,831,838 848 19 . 52,592 150 910 20.95,352,435 972 22.33,810,125 78618 . 09,831,838 848 19 . 52,592 150 910 20.95,352,435 972 22.33,810,125 78618 . 23,364,393 850 19 . 57,197,529 912 20.99,957,605 974 22.42,717,880 792 18 . 23,547,393 854 19 . 66,407,669 916 21.09,107,941 978 22.54,330,806 792 18 . 23,547,393 854 19 . 66,407,669 916 21.09,107,941 978 22.55,533,391 795 18 . 30,555,148 857 19 . 73,315,425 919 21.10,075,701 88 22.56,533,391 795 18 . 30,555,148 857 19 . 73,315,425 919 21.10,075,701 88 22.56,533,391 795 18 . 30,555,148 857 19 . 73,315,425 919 21.10,075,701 88 22.56,533,391
772 17. 77,595,691 834 19. 20,355,967 896 20.63,116,244958 22 05,876.519 773 17. 79,898,276 835 19. 22,658,552 897 20.65,4 8,829 959 2.208,179 104 774 17. 82,200,861 836 19. 24,961,138 898 20.67,721,414,960 22.10,481.689 775 17. 84,503,446 837 19. 27,263,723 899 20 70,023,909 961 22.12,784.274 776 17. 86,806,032 838 19. 29,566,308 900 20.72,326,584 962 22.15,080.859 777 17. 89,108,617 839 19. 31,868,893 901 20.74,629,169 963 22.17,389,444 778 17. 91,411,202 840 19. 34,171,478 902 20.76,931,754 94 22.19,692,029 779 17. 93,713,787 841 19. 36,474,063 903 20.79,234,319 965 22.21,99 ,614 780 17. 96,016,372 842 19. 38,776,618 904 20.81,536,924 96 22.24,297 200 781 17. 98,318,957 843 19. 41,079,233 905 20.83,839,509 907 22.26,599,785, 782 18. 00,621,542 844 19. 43,38 8,818 906 20.86, 42,093 968 22.28,902,370 78318. 02,924,127 845 19. 45,634, 03,907 20.88 444,680 969 22.31,204,955 78418. 05,226,712 846 19. 47,986,989 908 20.93,049,850 971 22.35,810,125 786 18. 09,831,883 848 19. 52,592 159 910 20.93,049,850 971 22.35,810,125 786 18. 14,437,053 850 19. 57,197,329 912 20.99,957,605 974 22.42,717,880 789 18. 16,739,638 851 19. 52,592 159 910 20.99,957,605 974 22.42,717,880 789 18. 19,042,223 852 19. 61,802,499 914 21.04,562,775 976 22.47,323,051 790 18. 19,042,223 852 19. 61,802,499 914 21.04,562,775 976 22.47,323,051 793 18. 22,949,978 855 19. 68,710,254 917 21.114,470,531 979 22.54,339,916 794 18. 28,525,563 856 19. 71,012,840 918 21.13,773,111 980 22.56,533,391 795 18. 30,555,148 857 19. 73,315,425 919 21.10,075,701 981 22.58,835,976 796 18. 32,855,148 857 19. 73,315,425 919 21.10,075,701 981 22.58,835,976
773 17. 79,898,276 835 19. 22,658,552 897 20.05,4 8,829 959 12.08,179 104 17. 82,200,861 836 19. 24,961,138 898 20.07,721,414 960 22.10,481.689 17. 84,503,446 837 19. 27,265,723 899 20.70,023,999 961 22.12,784,274 17. 86,806,032 838 19. 29,566,308 900 20.72,326,584 962 22.15,086.859 17. 89,108,617 839 19. 31,868,893 901 20.74,029,169 903 22.17,389,444 17. 91,411,202 840 19. 34,177,478 8902 20.76,931,754 904 22.19,092,029 17. 93,713,787 841 19. 36,474,063 903 20.79,234,339 905 22.21,99 ,614 17. 98,318,957 843 19. 41,079,233 905 20.83,839.509 907 22.26,599,785 18. 00,621,542 844 19. 43,38 ,818 900 20.88,142,93 968 22.26,599,785 18. 00,621,542 844 19. 43,38 ,818 900 20.88,142,93 968 22.28,902,370 19. 518. 00,831,883 848 19. 52,592 159 910 20.88 444,680 969 22.31,204,955 18. 00,831,883 848 19. 52,592 159 910 20.93,049,850 971 22.35,810,125 18. 14,4437,953 850 19. 57,197,329 912 20.99,957,059 973 22.24,2717,880 18. 16,739,638 851 19. 59,499,914 913 21.04,555,700 973 22.48,171,800 18. 21,344,808 853 19. 64,105,084 915 21.00,107,944 978 22.51,928,221 19. 61,802,499 914 21.04,562,775 976 22.47,717,800 18. 22,344,808 853 19. 64,105,084 915 21.00,865,360 977 22.49,625,036 19. 51,949,9714 913 21.04,562,775 976 22.47,717,800 18. 22,344,808 853 19. 64,105,084 915 21.00,865,360 977 22.49,625,036 19. 71,012,840 918 21.04,562,775 976 22.54,230,806 79418. 28,252,563 856 19. 71,012,840 918 21.11,470,531 979 22.54,230,806 79418. 28,252,563 856 19. 71,012,840 918 21.11,470,531 979 22.54,230,806 79418. 28,252,563 856 19. 71,012,840 918 21.11,3773,111 980 22.55,533,391 795 18. 30,555,148 857 19. 75,618,010 922 21,18,378,286 88 22.56,533,391 795 18. 30,555,148 857 19. 75,618,010 922 21,18,378,286 88 22.56,533,391
774 17. 82,200,861 836 19. 24,961,138 898 20.07,721,414,960 22.10,481.089 775 17. 84,503,446 837 19. 27,263,723 899 20.70,023,909 961 22.112,784,274 776 17. 86,806,032 838 19. 29,566,308 900 20.72,326,584 962 22.15,080.859 777 17. 89,108,617 839 19. 31,868,893 901 20.74,629,169 903 22.17,389,444 778 17. 94,411,202 840 19. 34,171,478 902 20.76,931,754 94 22.19,692.029 779 17. 93,713,787 841 19. 36,474,063 903 20.79,234,339 965 22.21,99 ,614 780 17. 96,016,372 842 19. 38,776,618 904 20.81,536,924 965 22.24,297 200 781 17. 98,318,957 843 19. 41,079,233 905 20.83,839,509 967 22.26,599,785 782 18. 00,621,542 844 19. 43,38 ,818 900 20.83,839,509 967 22.26,599,785 783 18. 02,924,127 845 19. 45,684, 03,907 20.88,444,680 969 22.31,204,955 784 18. 05,226,712 846 19. 47,986,989 908 20.90,747,265 970 22.33,507,540 785 18. 07,529,297 847 19. 50,289,574 909 20.93,049,850 971 22.35,810,125 786 18. 09,831,883 848 19. 52,592 159 910 20.95,352,435 972 22.33,507,540 787 18. 12,134,468 849 19. 54,894,744 911 20.97,655,020 973 22.40,415,295 788 18. 14,437,533 850 19. 57,197,329 912 20.97,655,020 974 22.42,717,880 789 18. 19,042,223 852 19. 61,802,499 914 21.04,562,775 976 22.47,323,051 790 18. 21,344,808 853 19. 69,499,914 21.04,562,775 976 22.47,323,051 791 18. 21,344,808 853 19. 66,407,669 916 21.09,167,944 978 22.51,928,221 793 18. 25,949,978 855 19. 68,710,254 917 21.11,470,531 979 22.54,230,806 794 18. 28,252,563 856 19. 71,012,840 918 21.106,865,360 977 22.49,625,533,391 795 18. 30,555,148 857 19. 73,315,425 919 21.11,470,531 979 22.54,230,806
775 17. 84,503,446 837 19. 27,263,723 899 20 70,023,909 101 22.12,784.274 776 17. 80,806,032 838 19. 29,566,308 900 20.72,326,584 962 22.15,080.859 77 17. 89,108,617 839 19. 31,868,893 901 20.74,629,169 903 22.17,389,444 778 17. 91,411,202 840 19. 34,171,478 902 20.76,931,754 904 22 19,092,029 779 17. 93,713,787 841 19. 36,474,063 903 20.79,234,339 965 22.21,99 ,614 780 17. 96,016,372 842 19. 38,776,648 904 20.81,536,924 906 22.24,297 200 781 17. 98,318,957 843 19. 41,079,233 905 20.83,839,509 907 22 26,599,785 782 18. 00,621,542,844 19. 41,079,233 905 20.86, 42,095 968 22 28,902,370 783 18. 02,924,127 845 19. 45,684, 03 907 20.88 444,680 969 22 31,204,955 784 18. 05,226,712 846 19. 47,986,989 908 20 90.747,265 970 22.33,507,540 785 18. 07,529,297 847 19. 50,289,574 909 20.93,049,850 971 22.35,810,125 786 18. 09,831,883 848 19. 52,592 159 910 20 95,352,435 972 22.33,507,540 19. 50,289,574 901 20.97,655,020 973 22.40,415,295 786 18. 14,437,053,850 19. 57,197,329 912 20.99,957,605 974 22.42,717,880 789 18. 16,739,638 851 19. 59,499,914 21.04,562,775 976 22.47,323,051 790 18. 21,344,808 853 19. 64,105,084 915 21.06,865,360 977 22.49,625,636 792 18. 23,547,393 854 19. 66,407,669 916 21.09,107,944 978 22.51,928,221 793 18. 23,547,393 854 19. 66,407,669 916 21.09,107,944 978 22.51,928,221 793 18. 23,547,393 854 19. 66,407,669 916 21.09,107,944 978 22.51,928,221 793 18. 23,547,393 854 19. 66,407,669 916 21.09,107,944 978 22.51,928,221 793 18. 23,547,393 854 19. 66,407,669 916 21.13,773,111 980 22.55,533,391 795 18. 30,555,148 857 19. 73,315,425 919 21.16,075,701 981 22.58,835,976 796 18. 23,855,148 857 19. 73,315,425 919 21.16,075,701 981 22.58,835,976 796 18. 23,855,148 857 19. 73,315,425 919 21.16,075,701 981 22.58,835,976
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795 18. 30,555,148 857 19. 73,315,425 919 21.10,075,701 981 22.58,835,970 706 18. 22,857,724 858 19. 75,618,010 920 21,18,378,280 182 22.61,138,561
70618 22 82 744 85810, 75,018,01002021,10,376,2001 02/22,01,128,5011
[707]18 25 160 210 850[10, 77,020,505](21]21,20,080,871]083[22,02,441,140]
798 18. 37,462,904 860 19. 80,223,180 922 21 22,983,456 984 22.65.743,731 799 18. 39,705,489 861 19. 82,525,765 923 21.25,286 041 985 22.68 046,316
[800] 8. 42.068.074.862 [9. 84,828,350] 924 21.27,500,02 [9.0] 22,70.348,902
80118.44,370,659 803 19. 87,130,935 925 21 29,891,21 1987 22.72.051,487
802 18. 46,673,244 8 4 19. 89,433,520 926 21.32,193,797 08 22 74,954,072
803 18. 48,975,820 865 19. 91,736,105 927 21.34,496,382 989 22.77,256,657 804 18. 51,278,414 866 19. 94,038,601 928 21.36,798,967 990 22.79.559,242
190 rl + 9 r + r 90 000 NO7 10 + OD 24 270 020 21 20 10 - 5 2100 22 01 02 02
180618 == 88+ =8 180810. Q8.042.801[Q20[21.41 404,137[QQ2 22.84.104.412]
807 18. 58,186,170 869 20. 00,946,446 931 21.43,706,722 993 22.86,466,997 808 18. 60,488,755 870 20. 03,249,031 932 21.46,009,307 994 22.88,769,582
X0011 X 29 701 71 1071120, 05.55 L.010103 1-1-403 1-1-992199 22:01.0723107
810 18. 65,093,92 5 872 20. 07,854,201 934 21.50,614,477 996 22.93.374,753 811 18. 67,396,51 873 20. 10,156,786 935 21.52,917,062 997 22.95,677,338
811 18 67.396,51 6 873 20. 10,150,786 935 11.52,917,002 997 22.95,677,338
812 18. 69,699,095 874 20. 12,459,371 936 21.55,219,648 998 22.97,979,923 813 18. 72,001,680 875 20. 14,761,956 937 21.57,522,233 999 23.00,282,508

Explanation of Table XXXVI.

To find the Logistical Logarithm of any Number of Minutes and Seconds, within the Limits of the Table.

A T the Top of the Table find the Minutes, and in the same Column, even with the Number of Seconds is found the Logistical Logarithm.

Note, If Hours are made any Terms of the Proportion, they are to be taken as if they were Minutes, and the Minutes of an Hour as if they were Seconds.

To find the Logistical Logarithm of any Number not exceeding 4800.

At the bottom of the Table find the Number next less than that given, and in the same Column, even with the Difference, is found the Logistical Logarithm.

Where two given Terms of the Proportion are common Numbers, one or both greater than 4800, instead of them take their Halves, Thirds, &c. But when only one of the given Terms is a common Number, and that greater than 4800, take it's Half, Third, &c. and multiply the fourth Term by 2, 3, &c.

The Logistical Logarithms in this Table are all affirmative, as well above as below 60'; but the Index of those above 60' is —1; below 60', down to 6', the Index is 0; and below 6', the Indices (being either 1, 2, 3) are expressed in the Table.

Explanation of Table XXXVII.

ABLE XXXVII contains such of Neper's Logarithms, as are analogous to those common Loga-

rithms, which confift of three Places of Figures.

They are divided into three Parts by Commas, which cut off the one thousandth and one millionth Parts of them. The following Examples are sufficient to shew the manner of using this Table.

EXAMPLE I.

What is the Neperian Logarithm of the Number 9?

1. Find by the preceeding Tables the common Logarithm of the given Number (9). - Viz. 0,9542425

2. Make this Logarithm confift of nine Places
of Figures (including the Index) by annexing Cyphers to the right Hand thereof
(if need be); and divide it by Points into
Periods, confifting each of three Places of
Figures, thus, 095.424.250

3. In one of the Columns mark'd C. L. find the left Hand Period (095) and write down the Neperian Logarithm found against it, 2.18745583

4. Write down the one thousandth of the Neperian Logarithm found against (424) the middle Period,

976296

5. Also write down the one millionth of the Neperian Logarithm found against (250) the right Hand Period,

576

6. Their Sum is the Neperian Log. requir'd, 2.19722455

EXAMPLE II.

What Number corresponds to the Neperian Logarithm 2.19722455?

I. From given 2.19722455 Neper. Log. Take next lefs 218745583 It's com. Log. = 095 Tab. Log. 2. Then from ? 976872 the Remaind. 5 Take the next lefs Tab. Log. (the right Hand Period excepted) Remainder -3. Find the nearest Tab. Log. thereto 250 575 (neglecting the two right HandPeriods) .

4. And the common Logarithm of the re- 3 0,95424250 quir'd Number will be found, viz. -

5. From which by the preceeding Tables the Number requir'd (9) will be easily found.

	1	58			T	A	В	L	E	X	XX	VII	I.		
	1	12	1 3	14	5	16	17	18	19	1	11	1 2	13	4	5
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	3	1 6	9	1993	# 1 Table	10000			and the second		62		180	248	315
	4	8	12	16	20	24	28	32	36		64	128	192	256	320
	5	12	1		1	36	35	40	45 54		65	130	195	260 264	325
	7 8		21	28	35	42	49	56	63	Lines	67	134	201	268	335
	9	16		32	40	48			72 81	PHY.		136	204	272	340
	10	20	30	40			70		90	9 *	69	140	210	276 280	350
	11	22		44		66	77	88	99	10	71	142	213	284	355
1	12	24			60	72 78	84	96	108		72 73	144	210	288	360
į	14	28	42	56	70	84	98	112	126		74	148	222	296	370
	15	30		60		90	105	128	135		75	150	225	300	375
	17	34	51	68	85	102	119	136	153			152	231	304	385
	18	36	54	72 76	90	108	126	144			77 78	156	234	312	390
1	20	40		80	100	120	133	160	171	100	79 80	158	237	316	
	21	42		84	105	126	147	168	189		81	162	243	324	
	22	44		88	115	132	154	176			82	164	246	328	410
1	24	48	72	96	120	144	168	192	207 216	this	83 84	166	252	332 336	420
	25	50		100	125	150	175	200	225		85	170	255	340	425
1	27	54	81	108	135	162	189	216	234		87	172		344 34 ⁸	
1	28	56	84	112	140	168	196	224	252		88	176	264	352	440
1	30	58	90	120	145	180	210	240	201		89	178		356	
	31	62	93	124	155	186	217	248	270		91	182	273	364	455
	32	64	96	128	100	102	224	256	288		92	184	276	358	460
1	34	68	102	136	165	204	238	272	306		93	186	279	372	470
1	35	70	105	140	175	210	245	280	315		95	190	285	380	175
1	37		111	148	180	222	252	200	324		96	192	288	384	485
-	38	76	114	152	190	228	266	304	342		98	196	294	392	490
1	39 40	80	120	160	195	234	273 280	312	351 360		99			396	
а	41	82	123	164	205	246	287	228	260		_	202	-	NAME OF TAXABLE PARTY.	_
1	42	84	126	168	210	252	294	336	378 387		102	204	306	408	510
1	44	0.0	132	170	220	204	208	352	200		103	208	309	412	520
	45 46	90	135	180	225	270	315	300	405		105	210	315	420	525
	47	94	141	188	235	282	320	376	414		100	212	318	424	530
	48	96	144	192	240	288	336	384	432		108	216	3241	432	540
	49	100	147	200	245	30C	343	392	441		109	218	327	436	545
	51	102	153	204	255	306	357	408	450			222			
	52	104	150	208	200	312	364	416	168		112	224	330	148 3	500
	54	108	162	216	270	324	378	424	477 486		113	226	339	152 5	70
	55	110	105	220	275	330	385	4.10	495		115	230	345	160,5	575
	57	114	171	228	280 285	342	399	456	513		116	232	348	168	80
	58	110	174	232	290	348	406	464	522		118.	236	354.4	172 5	100
	59	120	180	240	295 300	354	413	472	531		119	238	357 4	176 3	195
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1159 .11	Prod	uEIs	H.	1.8	180	T		-		-
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62 372 434 49	5 558	122	244	300	488	610	732	854	976	1098
63 378 441 50					496		738	861		1107
65 390 455 52		125	250	375	500	625	750	875	1000	1125
66 396 462 52	8 594	126	252	378	504	630	756	882	1008	1134
67 402 469 53 68 408 476 54		127	254	284	508	640	762 768		1010	1143
60 414 483 55	2 621				516		774			1161
70 420 490 50	0 630	Territoria.	-	_	520	-	780	910		1170
71 426 497 56	8 639	131	262	393	524	655	786			1179
72 432 504 57	6 648	132	260	390	528	665	792 798	924	1050	1188
74 444 518 59	2 660	134	268	402	536	670	804	938	1072	1206
75 450 525 60	0 675	135	270	405	540 544	675	810	945	1080	1215
76 456 532 60 77 462 539 61	6 693	137	274	411	548	685	816	952	1096	1224
78 463 546 62	1 702	138	276	414	552	690	828	906	1104	1242
79 474 553 63	2 711	139	278	417	556	095	834	973	1112	1251
80 480 560 640	-	-	-		564	_	840	THE RESERVE AND ADDRESS OF	_	1260
81 486 5h7 64 82 492 574 650	8 729 5 738				568		846		1136	:278
83 498 581 66.	1 747	143	286	429	572	715	858	1001	1144	1287
84 504 588 67	750	144	288	432	576 580	720	864	1008	1152	1296
85510595 686 86516 602 68					584		876	1022	1168	1314
87 522 609 696	783	147	294	441	588	735	882	1029	1176	1323
88 528 616 70.	792				592 596		888	1036	1184	1332
9054063073	810				500		930	1050	1200	1350
01 546 637 728	819		-	-	104	-		1057		
02552044730	828	152	304	456	608	700	912	1004	1216	1368
93 558 651 744	837	153	208	459	612	705	918	1071	1224	1377
95 570 665 760	855	155	310	465	620	775	930	1085	1240	1395
06 576 572 700	864				624		935	1092	1248	1404
97 582 679 776	873	157	314	471	632	705	942	1106	1250	1413
99 594 693 792	891	159	318	477	636	795	954	1113	1272	1431
100 600 700 800	900				640		960	1120	1280	1440
101 600 707 808	909	161	322	483	644	805	966	1127	1288	1449
102 612 714 816	918	162	326	480	648	315	972	1134	1304	1458
104 024 728 832	930	164	328	492	656	320	984	1148	1312	1476
105 030 735 840	945	165	330	495	660	825		1155		
106 636 742 848	954	167	334	190	664	335	996			
108 648 756 864	972	168	336	504	672	8.0	1008	1176	344	1512
109 654 763 872	981	169	338	507	676	345	1014	1183	1352	1521
110 660 770 880		-	_		-	-	1020		-	
111 666 777 888 112 672 784 896	999	172	344	516	688	860	1026	1201	1376	1548
112 78 791 904	11017	173	346	510	692	865	1038	1211	1384	1557
114 584 798 912	1020	174	348	522	696	870	1044	1218	1392	1566
115 690 805 920	1035	175	352	528	704	880	1050	1232	1408	1584
117 702 819 930	1053	177	354	531	708	885	1062	1239	1416	1593
118 708 826 944	1002	178	356	534	712	890	1068	1246	1424	1002
119714833952	1080	179	160	540	720	900	1080	1200	1440	1620
THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN COLUMN	9	-	2	3	-		6	7	8	9
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			- 180			ΓА	BI	E		XX	XV	III		160
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	362						1448			241	482	723	964	1205
182	364 366	549					1456			242				1210
184	368	552	736	920	1104	1288	1472	1656		244	188	732	976	1220
185	37° 37°	555	740				1480			245			980	1225
187	374	561	748				1496			247			988	1235
188	376	564	752	940	1128	1316	1504	1692		248			992	1240
	378 380						1512			249			1000	1245
-	382	-	PERSONAL PROPERTY.	CONTRACTOR .	STATEMENT !	-	1528			-		-	1004	The second second
192	384	576	768	960	1152	1344	1536	1728		252	504	750	1008	1260
193	386	579	772	965	1158	1351	1544	1737		253	500	759	1012	1265
1194	388	585	780	975	1170	1365	1552	1755		255	510	765	1020	1275
1196	392	588	784	980	1176	1372	1568	1764		256	512	768	1024	1 280
	394			985	1182	1379	1576	1773	100	257	514	771	1028	1285
			792 796				1592		- 5	259	518	777	1036	1295
200	400	600	800	1000	1200	1400	1600	1800		260	520	780	1040	1295
20	1 402	603	804	1005	1 206	1407	1608	1809		261	522	783	1044	1305
20	2 404	600	812	1015	1212	1414	1616	1827		263	524	789	1048	1310
20	4 408	612	816	1020	1224	1428	1632	1836		204	528	702	10006	1220
20	5 410	615	820	1025	1230	1435	1640	1845	-	265	530	795	1060	1325 1330 1335
20	7412	621	828	1035	1230	1440	1648	1863		267	534	801	1068	1330
120	8416	6.624	1832	1040	1248	1450	1664	1872		400	1530	004	11072	1240
20	9418	627	836	1045	1254	146	1672	1881		209	538	810	1076	1345
	-	-	· decimando		-	- Management	-	- Anneadories		271	540	312	1084	1355
21	2 42	1636	848	1060	1272	148.	1688	1908		272	544	810	1088	1360
21	3 426	6630	852	100	1278	149	1704	1917		273	546	019	100	1265
21	4 423	642	860	1070	1284	149	1712	1020		274	540	825	1100	1370
21	6 43:	2648	8864	1080	1296	151	2 1728	1944		276	552	828	1104	1380
21	7 43	1651	868	103	1 302	1510	9/1736	1953		277	554	831	1108	1385
21	0 430	8654	876	1036	1308	152	31752	1902	1	270	550	837	11112	1390
22	0440	666	880	1100	1320	154	1760	1980	1	280	1500	840	1120	1400
22	1 44	2 663	884	1109	1325	154	1768	1989	1	281	362	843	124	LADE
							1 776			282	504	040	11128	1410
22	444	8672	1896	1120	1344	1156	8 1792	2016	1	284	1568	1852	1126	1420
22	5 450	675	900	1125	1350	157	1808	2025		205	570	055	11140	1425
22	045	68	904	1130	1350	158	21808	2034		1200	1572	050	ILIAA	1430
22	8 450	6684	912	1140	1368	159	0 1824	2052		200	1570	004	1152	440
22	0 45	3687	916	114	1374	160	3 1832	2061		289	578	507	11156	1445
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23	2 46	160	924	1160	1302	162	1848	2088		1292	1584	870	11168	1455
23	2 466	6690	932	116	1398	163	1 1864	2097		293	586	1879	1172	11465
23	4 468	702	936	1170	1404	163	8 1872	2100	K	1294	588	002	11176	1470
23	6472	708	940	1180	1416	165	1880	2124		290	1592	888	1184	1480
23	7 474	711	948	118	1422	1650	91896	2133		297	1594	1891	1188	1485
23	8 476	714	952	1190	142	31100	1904	2142		298	1590	894	1192	1400
240	1480	720	1950	1200	1440	168	01920	2160		300	600	900	1200	1495
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161		mi	711	LVZ	1	Prod	tuEts		1/2	360	1			
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241	1446	Automorphic I	ACCRECATION AND PARTY.	2169		301	502	903	1204	1505	1806	2107	2400	2700
242	1452	1694	1936	2178		302	604	got	1208	1510	1812	2114	2410	2718
243	1458	1701	1944	2:87		303	606	909	1212	1515	1818	2121	2424	2727
244	1464	1708	1952	2196			608	912	1210	1520	1824	2128	2430	2745
245	1470	1715	1900	2205		305	610	915	1220	1525	1826	2135	2118	2754
240	1470	1722	1900	2223		200	6:4	021	1228	1535	1842	2149	2456	2763
248	1488	1736	1084	2222		308	516	924	1232	1540	1848	2156	2464	2772
240	1404	1743	1992	2241		300	618	927	1236	1545	1854	2163	2472	2781
250	1500	1750	2000	2250		310	620	930	1240	1550	1860	2170	2480	2790
married	and the latest designation of	STEEL STREET, ST.	MANAGEMENT.	2259		311	622	933	1244	1555	1866	2177	488	2799
252	1512	1764	2016	2208		312	624	936	1248	1500	1872	2184	2496	2008
253	1518	1771	2024	2277		313	626	939	1252	1505	1878,	2191	2504	2817
254	1524	1778	2032	2286		314	628		1250	1570	1884	2198	2512	2820
255	1530	1785	2040	2295			630					2205 2212		
250	1530	1792	2048	2304			632					2219		
257	1542	1805	2064	2313			636	954	1272	1500	1008	2226	2544	2862
250	1540	1813	2072	2331	13		638		1276	1595	1914	2233	2552	2871
260	1560	1820	2080	2340			640	960	1280	1600	1920	2240	2560	283c
-	the statement	-	-	2349	100	221	642	963	1284	1605	1926	2247	2568	2889
				2358		322	644	966	1288	1610	1932	2254	2576	2898
263	1578	1841	2104	2367	13	323	646	96.	1292	1615	1938	2261	2584	2907
264	1584	1848	2112	2376		324	648	972	129	1020	1944	2268	592	2910
				2385		325	650					2275		
				2394		320	652		1304	1625	1950	2282	2616	204
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				2412		320	656					2303		
2-0	1620	1800	2160	2430		220	660		1320	1650	1080	2310	2640	2970
and the last	Married Street	-	Name of Street, or other Designation of the last of th	2439		200	662	-			_	2317	-	_
277	1620	1004	2170	5 2448		222	664		1328	1660	1992	2324	2656	2988
273	1628	1011	218	412457	1	1222	1666	999	1232	1665	1998	2331	2504	2999
274	1644	1918	210	2466	-	224	1668	1002	1226	1670	2004	2338	2572	3000
275	1050	1925	2200	2475		1225	1670	1005	1340	1675	2010	23-5	2000	301
276	1656	1932	220	3 2484		336	672	1008	1344	1680	2010	2352	2050	3024
277	1662	1939	2210	2493		337	674	1011	1348	1600	2022	2359	2704	3033
278	1668	1945	2224	2502		338	670	1014	353	1605	2020	2366	2712	205
279	1680	1955	223.	2511		339	680	1020	1260	1700	2040	2380	2720	3060
-	_	-	-	-	1	34	600		1261	1205	2016	2387	2728	2000
281	1080	11907	224	2529		341	68	1023	1268	1710	2052	2204	2736	3078
282	1608	1081	226	2538		344	686	1020	1372	1715	2058	2394	2744	308
284	170	1088	2272	2556	1	344	1688	1032	1376	1720	2004	2408	2752	3096
285	1710	1995	2280	2565	13	345	600	035	1380	1725	2070	2415	2700	3109
286	1716	2002	2288	2574		1246	602	028	1384	1730	2070	2422	2700	3114
287	1722	2000	2290	2583		347	694	1041	1388	1735	2082	2429	2770	3123
288	1728	2016	230	2592		348	596	1044	1392	1740	2000	2436	2702	313.
289	1734	2022	2312	2601		349	090	1047	1390	1745	2100	2443	2800	2150
				610		330	100	100	1400	1750	2106	24.50	2808	2100
291	1740	2037	232	2619		000	inna	Iroch	11408	1700	2112	2457 2464	2010	N2105
292	175	2044	2330	2628	-	352	706	0.0	1412	1765	2118	2471	2824	3177
293	175	2000	225	2637	1	250	708	062	1416	1770	2124	2471	2832	3186
200	1770	2000	2260	2655	1	1200	710	1000	1420	11775	2130	2405	12040	13199
				2664		1251	712	1008	1424	1780	2130	2492	2040	13204
297	178	2 2070	2370	6 2673	1	257	714	1071	1428	1785	2142	,2499	12050	73213
298	1781	3 2086	238	4 2 82		1258	716	1074	1432	1790	2140	2500	2004	3222
299	179	1 2093	3.239	2 2691		1250	718	1077	11436	1795	2154	2513	2072	3231
300	1800	2100	2400	2700	1	360	-	1080	1440	1800	2100	7	-000	3240
		10 700	100	19	1	1	2	3	1	P	6		6 X	1 0

X

162				Т	A I	BL	E	XX	X	VI	II.			1631
1	2	3	4	15	16	17	8	9	1	1	-	_	1 4	
361	722	1083	1444	1805	2172	2527	2888	3249		421	842	1263	168	2105
363	720	1089	1452	1815	12178	2541	2004	3267	1	423	846	1269	169	22115
304	720	1092	1450	1820	2184	2548	2012	3276						52120
300	732	1098	1404	11830	2106	2562	2028	3204		129	852	1278	170	2125
307	734	1101	1408	1835	2202	2560	2936	3303		427	354	1281	1708	2135
300	738	1107	1470	1845	2214	2583	2952	3321		129	858	1287	1716	2140
370	740	1110	1480	1850	2220	25,0	2960	3330		130	860	1290	1720	2150
371	742	1116	1484	1860	2226	2597	2968	3339		131	862 864	1293	1724	2155
373	746	1119	1492	1865	2238	2611	2984	3357		133	866	1299	1732	2165
374	748	1125	1490	1870	2244	2618	2992	3300		34	868 870	1302	1736	2170
376	752	1128	1504	1880	2256	2632	3008	3384		136	872	1308	1744	2180
377	754	134	1500	1800	2262	2646	3016	3393	4	37	874	1311	1748	2185
379	75811	137	1516	1895	2274	2653	3032	3411	4	36	878	1317	1756	2195
					2280					_	-	-	-	2200
382	764	140	1528	1910	2286	2674	3056	3438	4	41	884	1325	1708	2205
383	766	149	1532	1915	2298	2681	3064	3447	4	43	886	1329	1772	2215
385 7	770	155	1540	1925	2304	2695	3080	3465				1332		
3807	772	150	544	1930	2316	2702	3088	3474	4	46	392	1338	1784	2230
3887	770	104	552	1940	2322	2710	31043	1492	4	47	396	1341	1792	2235
3897	781	107/1	550	1945	2334	2723	31123	501	14	49	398	347	17,6	2245
3017	82 1	1731	564	1055	2340	2727	2128	510	100		-	353	STREET, SQUARE,	2250
392 7	841	1701	568	1960	2352	2744	31363	528	14	529	04	1356	1808	2260
1937	1 88	1821	576	1905	2358	2751	31443	537	14	539	008	359	816	2205
957	901	185 1	580	1975	2364	2765	1603	555	4	559	101	365 1	820	2275
90,7	94 1	1911	588	1980	2376	2772	1763	573				368		
987	961	1941	592	1990	2388 2	2786 3	1843	582	4	589	161	374	832	2290
997	90 1	2001	600	1995	2394 2	79313	1923	600	4	599	201	377 I 380 I	840	2295
01/8	02 12	203 1	604 2	2005	2406,2	807.3	2083	600	40	19	22 1	383 1	844	2305
02.8	04 12	1001	6122	20102	24122	8143	2163	618	140	129	24 1	389 1	848	2210
04 8	08 12	121	616 2	202C 2	424 2	8283	2323	636	40	49	28 1	392 1	856	2320
05 8	12 12	1810	624 2	2025 2	430 2	842 3	240 3	654	46	59	301	395	860	2325
07 81	14 12	21 16	528 2	2035 2	442 2	8493	256/31	663	40	7,9	341	401 1	868	2335
00/81	8 12	27 16	536 2	040 2	448 2	862 3	204 3	681	40	189	301	404 1	872	2340
10 83	20 12	3016	040 2	0502	400 2	8703	280 3	690	4.7	09	401	4101	880	2350
1 1 82	4 12	33 16	144 2	0552	466 2	877 3	288 30	699	47	19	42 1	4131	884	355
13/82	6 12	39 16	522	065 2	478 2	89113	304 3	717	47	39	461	4161	892 2	2365
14 82	8 12	42 16	56 2	0702	484 2	898 2	3123	726	47	49	481	1221	896	2370
16 83	2 12	48/10	064 2	0802	496 2	9123	3283	744	47	69	521	425 1	904	2380
7 33	4 12	51116	68 2	0852	508 2	0103	236 2	753	47	719	541	4311	908	2385
10/03	8112	57/10	70 2	0052	514 21	03213	2522	771	147	99	501	4341	916	2305
0 84	0 12	00/16	80 2	1002	520 20	940 3	360 3	780	48	9	601	44C I	020	2400
2	1 3			5	6	THE REAL PROPERTY.		9			21	3 1	4	



166				P	roduE	s	Ta	-ByI	AI		720		
1	6	7 1	8	9	1	2	3	4	5	6	7		9
601	3606	4207	4808	5409	661	1322	1983	2644	3305	3966	4627	5288	5949
602	2618	4214	4824	5410	663	1326	1989	2652	3310	3978	4641	5304	5958 5967
604	3624	4228	4832	5436	1004	1220	11992	2050	2320	3904	4048	5312	5970
605	3630	4235	4840	5445	666	1330	1995	2660	3325	3990	4663	5320	5985 5994
607	3642	4242	4856	5454 5463	667	1334	2001	2668	3335	4002	4669	5336	6003
608	3548	4256	4864	5472	668	1336	2004	2672	3340	4008	4676	5344	6012
609	3954	4263	4872	5481	670	1338	2007	2676	3345	4014	4600	5352	6030
-	THE REAL PROPERTY.	Transfer I	_	5499	671	1242	2013	2684	2255	4026	4607	5368	6039
612	3672	4284	4896	5508	672	1344	2016	2688	3360	4032	4704	5370	0048
613	3678	4291	4994	5517	673	1340	2019	2692	3365	4038	4711	5384	6057
614	3684	4298	4912	5526									6066
616	3696	4312	4928	5544	676	1352	2028	2704	3380	4050	4732	5408	0084
617	3702	4319	4936	5553	677	1354	2031	2708	3385	4002	4739	5416	0093
		4320		5562	670	1358	2037	2712	3399	4074	4740	5432	6102
620	3720	4340	4960	5580	680	1300	2040	2720	3400	4080	4760	5440	6120
621	13720	4347	4968	5589	681	1362	2043	2724	3405	4086	4707	5448	6129
622	3732	1354	4976	5598	682	1364	2046	2728	3410	4092	1-774	5450	6147
623	3730	1301	4984	5607	68.	1368	2052	2732	3415	4104	4788	5472	6147
625	3750	4375	5000	5625	68:	1370	2055	2740	3425	4110	4795	5480	0105
626	3756	4382	5008	5634	680	1372	2058	2744	3430	4110	4802	5488	6174
627	3702	1309	5010	5652	688	374	2064	2752	3+35	4128	14816	1550	6192
620	3774	1403	5032	10 35	686	137	2007	2756	3445	4134	4823	5512	6201
630	3780	4410	504	5070	-	-	- Commission	-	- Contractions	-	Company of the	- THE REST	6210
631	3786	4417	504	5679									6228
632	379	4424	505	6 5688 4 5697	160	1 1 280	5/2070	2772	213465	4158	4851	554	6237
162	12804	14438	1507	25700	69.	1138	3 208	2 2776	3470	4164	4858	1555	16246
1633	3810	34445	15000	057151	100	139	208	2780	3475	4179	4873	5500	6255
630	182	14454	500	8 5724 6 5733	00	7 139	1209	1 278	8 348	4182	4.070	1557	0273
62	3 3828	14400	1510.	415742	100	0 139	01209	1279	213490	0,4100	14000	1550	10282
620	183	14473	5 511	2 5751	69	9 139	0 210	7 279	0349	4194	1400	559	26291
				5760									80300
64	2 285	14494	1513	8 5769 6 5778	70	2 140	4210	D 280	8 3510	0421	191	4 501	60313
164	285	8 450	1514	415707	70	3 140	6210	9 281	2 351	5 421	8 92	1 562	40327
61	1 285.	4 450	51515	2 5790	170	4 140	0211	5 282	0352	5 4 2 2 3	1 +92	5 564	06345
64	6 287	6452	2516	8 5814	70	0 141	2211	3 282	4353	0 423	5 494	2 564	8 6354
64	7 388	2 452	9 317	0 5023	70	7 141	4212	1 282	8 353	5 424	2 494	0 505	66303
64	8 388	8 453	0 518	45032	70	00141	8 212	7 283	6354	5425	1495	3 507	4 6372 2 6381
65	9309	0455	0 120	0 5850	71	0142	0213	0 284	0355	04-6	0 497	0 568	60390
65	1300	6455	7 520	8 5859	7-1	1 1 42	2 213	3 284	41355	5 4.26	0 497	7,568	8 0399
65	2201	21450	4521	015800	71	2 142	24 213	0 284	8 350	0 427	2 498	4 ,00	100400
65	3 391	8 457	8 522	4 5877 32 5886 40 5895	7	3 142	28 21	2 8	6 350	04.8	4 499	8 571	26426
65	5 3 9 2	9158	5 524	10 5895	7	15 14	30 214	F5 280	50/357	15 429	10/500	251573	20 943
165	01393	0459	4 5 44	10094		1014	32 21.	18 280	5435	0 420	0 501	2 57	28044
65	7 394	2459	952	505913	7	18 14	26 21	1 28	72 351	201430	8 50	20 57	44.646
65	0 394	4461	3 52	72 593	17	1914	38 21	57 28	7035	95 43	4 50	33 57	52047
60	0396	00 462	0 52	50 5940	7	2011	40 21	00 28	90 30	00 43	20/20	49 57	00040
1	6	7	18	19	1	1 1	1 3	14	- 5	1 6	1 7		9
	TV	1											1

							-	-1				-		
166	5	00 (9)		7	T.	A B	LE	X	XX	VII	I.			33
1	2	3	1 4	5	16	1 7	1 8	19		-	2	2	1 4	1
721	1442		2884		4320	5047	5768	648		-	1562		-	1 5
722	1444	2100	2888	3610	4332	5054	15776	640	8	782	1564	2345	1128	20
723	1440	2169	2892	3015	4338	5061	1:5784	1650	7	783	1566	2349	3132	89
724	1448	2172	2895	3620	4344	5068	5792	651	5	784	1568	2352	3136	39
726	145	2175	2004	3025	14350	5075	5808	052	5	785	1570	2355	3140	39
727	1454	2181	2008	2525	1350	5082	5816	653	4		1572			
728	1456	2184	2912	3640	1368	cont	5824	655	2	788	1574	2264	3140	39
729	1458	2187	2910	3045	14374	\$102	5822	6:6		780	1578	2367	3156	30
730	400	2190	2920	3050	4380	5110	5840	16570			1580			
731	1462	2193	2924	3655	4386	5117	5848	0570	5	-	1582	THE REAL PROPERTY.	The same of	THE
732	1404	2100	2023	30:0	1202	5124	15856	16:88	2	792	1584	2376	3168	390
733	1400	2199	2932	13000	1308	7121	15864	650	7	793	1586	2379	3172	390
725	1400	2202	2930	3070	4404	5138	5872	0000		794	1588	2382	3176	39
736	1472	2208	2011	2680	1416	5145	5888	664		795	590	2385	3180	397
737	1474	2211	2948	3685	1422	5150	5896	6622	8	790	594	300	3104	39
730	1470	2214	2952	3000	4428	\$100	5004	6642		708	596	304	2702	200
7391	1470	2217	2950	3095	4434	\$173	5012	6651		799	598	397	106	300
40	1400	2220	2900	3700	4440	\$180	5920	6060		800	1600	400	3200	00
741	1482	2223	2064	3705	4446	\$187	5028	6660		_	602	-	ACCRECATE VALUE OF	_
7-1-2	1484	2220	2008	2710	1152	2104	rash	66.48		802	604	406	208	101
43	1400	2229	2972	3715	4458	\$201	5044	6687	1	8031	606 2	40	212	101
145	1400	2222	2080	3720	1404	5208	5952	6695		804	608 2	412	216	02
46	1402	2238	2084	2720	4476	5215	5960 5968	6705		805	6102	415	220	102
47	1491	2241	2088	3735	4482	5220	5976	6722		807	6122	410	224	03
48	1496	2244	2992	3740	4488	5236	5984	6722		808	6162	42	2420	103
49	1490	2247	2990	3745	4494	5243	5002	6741		8001	6182	427	2201	04
50	1500	2250	3000	3750	4500	5250	6000	6750		8101	6202	430	1404	05
511	1502	2253	3004	3755	4506	5257	6008	6750			6222			
24	1504	2250	3000	3700	4512	5204	6016	6768		8121	6242	430 3	2484	06
53	1500	2259	3012	3705	4518	5271	6024	6777		8131	626 2	439 3	2524	.06
24	1500	2265	3010	3779	4524	5278	6032	6786	1 29	8141	628 2	4423	256 4	07
56	1512	2268	2024	37/5	4536	5205	6040	6895		515	630 2	4453	2004	07
371	1 5 1 41	44/11	20201	3785	4.54.21	2200	50-6	5.8× 4		21011	6322	448 3	2044	08
2011	5110	2274	3032	3790	4548	200	6061	5822	1	318	6342	4543	20019	00
391	4 4 0	4417	20201	37051	4554	22121	DOTAL	3821	2.3	3191	6382	457 2	2764	00
001	320	2200	3040	3800	4500	5320	6080	0840	18	3201	6402	1603	2804	100
611	522	2283	3044	3805	4566	5327	6088	5849	18		6422			
0211	524	2280	3048	30101	457213	2211	book	58-8	18	22 11	0442	40 3	2884	TIC
0311	V201	22001	20021	2010	ままでの [1]	241	120001	586ml	18	23 1	646 2	1003	2024	III
6511	520	2205	2060	2825	4500	348	6112	0870	10	241	048 2	1723	2954	120
OOL	7761	420011	2004	202014	45000	2012	624811	1800	0	2511	5502	1753	3004	125
0/12	5 5 41	230II	3000	303514	1 0210	200	612611	2002	8	2711	552	1703	30414	130
COLF	3300	3041	32.721	304014	1.00010	270	500016	3012	8	2816	554 2. 556 2.	84 3	2124	140
0911	5301	30713	3070	30454	10165	3821	610016	0021	18	2916	5824	87 2	3164	145
100	344	310	1000	3050	0205	390	0160	1030	8	3011	560 24	19013	3204	150
711	542 2	313 3	1004.2	8554	1526 €	207 1	5168 6	000	8	31 16	62 24	1032	22441	155
4 4	544 2	3102	(000)2	8000!4	10221c	ADAM	3+ 76 6	meki	8	32 16	64 24	96 3	2841	160
/314	34012	3103	00214	100514	02 815	A 1 1 1/	51211	on men	19	33 10	00 24	99133	32 41	DI
	540/2	322 3	109013	8704	04415	418	51926	956	18	3416	68 25	02/32	3641	70

775 1550 2325 3100 3875 4650 5425 6200 6975 776 1552 2328 3104 3880 4656 5432 6208 6984 777 1554 2331 3108 3885 4662 5439 6216 6993

778 1556 2334 3112 3890 4658 5446 6224 7002 779 1558 2337 3116 3895 4674 5453 6232 7011 780 1560 2340 3120 3900 4680 5460 6240 7020 1 2 3 4 5 6 7 8 9

3 4 5 6 7 8 9

834 1668 2502 33364170 835 1670 2505 3340 4175 836 1672 2508 3344 4180 837 1674 2511 3348 4185 838 1676 2514 3352 4190

839 1678 2517 3356 4195 840 1680 2520 3360 1200 1 2 3 4 5

167	101		ties	17%	Produ	Ets					900	1
1 6	7	8	9	1	1 2	1 3	4	5	6	7 1	8	9
781 4686	5407	6248	7029	184	1682	2523	3364	4205	5046	5887	6728	7569
782 4692	5474	0250	7038	184	2 1084	2520	3308	4210	5057	5894	0730	7578
783 4698	5481	620.	7047	184	3 1686	2529	3372	4215	5050	5901	6744	7587
784 4704	5400	5280	7050		4 1688	2532	3370	4220	5004	5908	6752	7590
786 4716	5502	6288	7071	84	61690	2535	3300	4225	5076	5915	6768	7005
787 4722	5500	6296	7082	84	1694	2541	2288	4230	508	5020	6776	7622
788 4728	5516	6304	7092	84	8 1696	2544	3302	4240	5088	5036	6784	7622
789 4734				84	1698	2547	3396	4245	5094	5943	6792	7641
7904740	5530	6320	7110	85	1700	2550	3400	4250	5100	5950	6800	7650
791 4746	5537	6328	7119	85	1702	2552	2404	4255	5106	5957	6808	7650
791 4746 792 4752 793 4758	5544	6330	7128	85	1 70z	2556	2408	1260	5112	5964	6816	7668
793 4758	5551	6344	7137	185	3 700	2559	3412	4205	5119	5971	0824	7077
794 4794	5550	0352	7140	185	41708	2562	3416	4270	5124	5978	0832	7686
795 4770	5505	6260	7155	85	5 1710	2565	3420	1275	5139	5985	6840	7695
796 4776	5572	6276	7104	85	1712	2568	3424	4280	5130	5992	6048	7794
797 478 2 798 4788	5586	6184	7182	105	71714	2571	3428	4205	5145	5006	686	7713
7994794	5503	6392	7101	185	91718	2577	3432	4200	5154	6012	6872	7722
800 4800	5600	6400	7200	86	01720	2580	3440	4300	5160	6020	6880	7740
801 480		_	-	86	11722	2582	2444	120-	5166	6022	6889	77.00
802 4812	5614	6416	7218	86	21724	2586	3444	4210	5172	6024	6806	7758
8034818	5621	6424	7227	86	3 1726	2580	3452	4315	5178	6041	6004	7767
8044824	5628	0432	7236	86	1 1722 2 1724 3 1726 4 1728	2592	3456	4320	5184	6048	691:	7776
805 4830	5635	6440	7245	80	511/34	2595	3400	4325	3195	90551	0920	7795
806 4836	5642	0448	7254	86	6 1732	2598	3464	4330	5196	6002	6928	7794
8074842	5049	6450	7203	86	7 1734	2001	3468	4335	520	6009	6936	7803
808 4848 809 4854	6662	6472	7272	06	8 1730	2004	3472	4349	5208	0070	6944	7812
8104860	5670	6480	7200	87	91738	2610	3470	4345	5220	6000	6050	7821
8114866	-	Democratical Control	THE PERSON NAMED IN	- make the	-		-	- Martin Company			Management .	Administration of the last of
812,4872	5684	6406	7208	THE RESERVE	2 1744	2616	3404	4355	5720	6104	6006	7839
813 4878	5601	6504	7317		31746							
8144884	5698	6512	7320	87	41748	2622	3406	4370	5244	6118	6002	7866
8154890	5705	6520			5 1750	2625	3500	4375	5250	6125	7000	7875
8164896	5712	6528	7344	87	611752	2028	3504	438e	5256	0132	7008	7884
8174902	5719	0530		87	7 1754	2631	3508	4385	5202	0139	7016	7893
3184908	5720	6	7364	87	8 1750	2034	3512	4399	5,208	6140	7024	7902
8194914	3/33	6:50	7371	97	91758	2640	3510	4695	528A	0153	7032	7911
201	3/40	6068	7300	00	1760	2640	2520	4400	5296	616	7040	190
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8234938	5761	5584	7407	88	31760	2640	2522	4415	5208	6181	7064	7938
824 4944	5768	0592	7416	88	41768	2652	3536	4420	5304	6188	7072	7956
825 4056	5775	5000	7420	38	5 1779	2655	3540	4425	5310	0195	7080	7965
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827 4902	5789	0010	7443	188	7 774	2661	3548	4435	5322	5209	7096	7983
828 4968	5790	664	7453	88	81776	2604	3552	4440	5328	6210	7104	7992
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836 5016	5852	6688	7524	80	6 179	2688	3584	4480	5176	6272	7168	3064
837 5022	5859	6696	7533	189	17 1794	12091	3588	4485	5382	1279	7176	13073
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The Use of Table XXXVIII.

PROBLEM I.

To find the Product of two Numbers, one of which doth not exceed three Places of Figures.

EXAMPLE.

Required the Product of 875963 by 976?

	976×3 is 976×6×10	(Page 169, Ta	b. 38.)	292 \$ 5856
	976×9×100		-	8784
	976X5X1000			4880
	976X7X10000	-	distribution.	6832
	976×8×100000		and and	7808
,	976×875963	is their Sum.	ST. N.	854939888

PROBLEM II.

To find the Product of any two Numbers.

This Problem will be rendered easier, by placing the Tabular Figures in a different Order from those above; see the Manner of ranging those of the last Example, as they will appear on the taking down of each Number, from the Table.

viz.	Nos. viz.	viz.	viz.	5 Numbers. viz. 976×75963	The whole Example, viz. 976×875963
8 2 9	68 52 89	468 852 789		20468 38852 88789	The second name of the last of
2	52	852	4852	64852	764852 854939888

The Application of this Manner of placing the Figures needs only an

EXAMPLE.

Required the Product of 875963 by 752976?

875963 ×	976 (as above)	820468 038852 888789
875963 × 752000 will fall under t	(where the first F	Figure 640826 166615 027752 653642
875963 × 752976		- 659579115888 PROB.

PROBLEM III.

To find the Quotient of two Numbers, when the Divisor does not exceed three Places of Figures.

EXAMPLE.

Divide 854939888 by 976?

From the left Hand Figures of the Dividend — —	85493988	8	
Take the next leffer Tabular Figures found on a Line with the Divisor (976) —	7808	standing under	3
From the Remainder with a Figure brought down -	} 7413	7	
Take the next leffer Number on the fame Line —	5 0032		7
Proceeding in the fame Man-	5819		5
ner 'till all the Figures of the Dividend are brought	9398 8784	the take (45 all land)	9
down.) an granger opport	6148 5856	The Delivery	6
to repaid not be the same of	292 292		3
Then will the Quotient be fou	nd, viz.	- Re	875963

PROBLEM IV.

To find the Quotient of any two Numbers.

Put A = the three left hand Figures of the Divisor. B = the remaining Figures thereof. D = the Dividend. n = 10,100,1000, &c. when B consists of 1, 2, 3, &c. Figures.

Let $\frac{D}{n} = d$, and $\frac{B}{n} = b$; also, $\frac{d}{A} = 2$, and $\frac{b}{A} = q$.

Then will the required Quotient be $2 - 2q + 2q^2 - 2q^3$ &c.

EXAMPLE.

Divide 659579115888 by 875963?

Here 875 = A; 963 = B; 659579115888 = D and 1000 = nThe efore 0.963 = b; and 659579115.888 = d.

Now 875)659579116 = 753805 = 2 (found by problem 3.)

And 875)0.963 = 0.0011 = qTh. $753.05 \times 0.0011 = 829$, &c. = 2qAnd 753805 - 829 = 752976 = the Quotient required.

The

The principal Defign of inferting Table the 38th in this Work, was to facilitate the finding of Numbers or Logarithms, intermediate to those in the beforegoing Tables: the Methods of doing which are as follow:

PROBLEM V.

A Number, of more than four and lefs than eight Places of Figures being given, to find its Logarithm. (See Page 139 and 240.)

CASE I.

If the left Hand Figures of the given Number are lefs than 4343.

EXAMPLE.

What is the Logarithm of 3093450?

In Tab. 33. the Log. of (3093143) the next Tabular } 6,4904 Number (with the proper Index) is The Difference of the two Num-? From which take (2848) the Number Cannexing to next leffer than that Difference, the Log. the found (on a Line with (712) the 2848 Figure unthe Log. the der which it Tabular Difference) in Table Cftands. 38. From the Remainder 222 millou O and III Take 10 of (2136) the Number in the same Line whose initial Fi- 214 standing under gures are next leffer that of any true Numbers. The initial Figure nearest to this last } 7 standing under And the Logarithm required is 6,4904431 - - bas CASEII - bas

If the left Hand Figures of the given Number exceed 4343. E X A M P L E.

What is the Logarithm of 8066133?

In Tab. 32. the I og. of (8066) the next leffer Ta- 3 bular Number (with the proper Index) is	6,9066582	1
of the Numbers, and under (5) the left Hand Figure of (539) the Tabular Difference is —		5
On the same Line, and under 3 the second Figure of that Difference is 399; 10 of which is	4	0
And under 9 is 1197; roo of which is	1	2

The Sum of these sour Lines is the Log. required

6,9066654

PROBLEM XVI.

A Logarithm being given, confisting if more than four and less than eight Places of Figures, to find the Number corresponding thereto.

CASEL

If the left Hand Figures of the given Log. (rejecting the Index) are lefs than 6378.

EXAMPLE.

and the sal thought to be and the sale that the
Of what Number is 6,4904431 the Logarithm?
In Tab. 33. the Number to (,4904) the next leffer } 3093143
Tabular Log. is In Tab. 38. on a Line with 431, the Difference of the Logarithms, and under (7) the left Hand Fi-
the Logarithms, and under (7) the left Hand 115
On the fame Line, and under (1) the recond Figure 5 43
And under 2 is 862; Too of which is
The Sum of which is the Number required - 3093450
CASE II.
If the left Hand Figures of the given Log. (rejecting the Index)
EXAMPLE.
Of what Number is 6,9066654 the Logarithm?
In Tab. 32. the Number to (,9066582) the next leffer 3 8066 Tabular Log. is
The Difference of the two 100
Logs. (with a Cypher) annexed) is
From which take (539) the the Numb.
that Difference (found) 539)
on a Line with (539) the (it flands,
From the Remainder — 181
Take = of (1017) the
Number in the lame 162 standing under 3
gures are next leffer, —
19
The initial Figures nearest 3 to this Remainder, are 3
- 8066122
And the Number required,

PROBLEM VII.

To find the Log. Sine or Log. Tangent of an Arc (greater than two Degrees) confisting of Degrees Minutes and Seconds.

EXAMPLE.

What is the Log. Sine of 4°: 31': 27'?

The Log Sine of 4°: 31' is (per Table 34. Page 98) 8,8962455 (By Table 38.) Multiply (266 =) to of (15963) the Tab. Diff annex'd thereto, by (27) the given Num-

ber of Seconds; adding the Product, viz.

(Page 161) against 266 and under 7

1862

Their Sum is the Logarithm required

PROBLEM.

A Log. Sine or Log. Tangent being given, to find the Arc to which it belongs in Degrees, Minutes and Seconds.

EXAMPLE.

Of what Are is 8,8969637 the Log. Sine? From the given Log - 8,8969637 Take the next leff. Tab. Log. 8,8962455 = Sine of 40: 31

Remainder -7182 Multiply (718) the 3 left Hand Figures of the Remainder by

and Divide the Product

4309

By (160) the three left HandFigures of (15963) the Tab. Diff. in the Manner directed in Prob. 3. Viz. From the faid Product Take the next Lef- 320 standing under 2

Seek the Nearest Figures to the Rem. 1109 Viz. 1120 standing under 7

And the Quotient will be the Seconds required

Therefore the Arc will be

FINIS.

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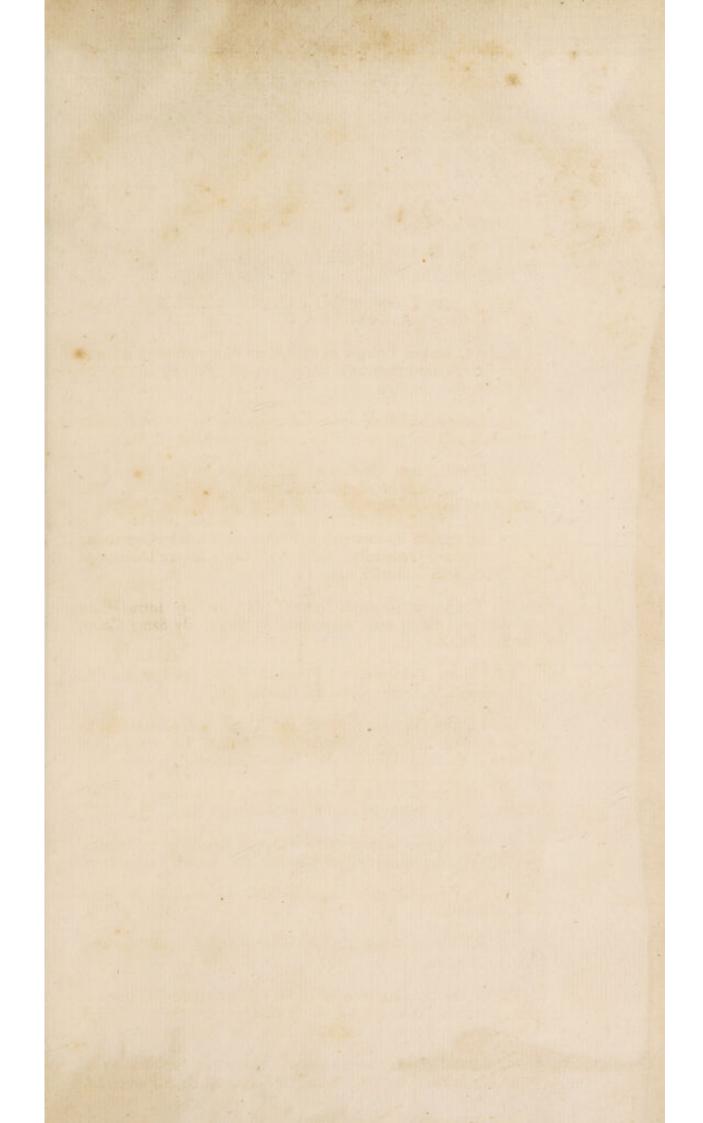
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