A mathematical compendium; or, useful practices in arithmetick, geometry, and astronomy, geography and navigation, embattelling, and quartering of armies, fortification and gunnery, gauging and dyalling, etc. Explaining the logarithms, with new indices; Nepair's rods or bones; making of movements, and the application of pendulums; with the projections of the sphere for an universal dyal, &c; / [Sir Jonas Moore].

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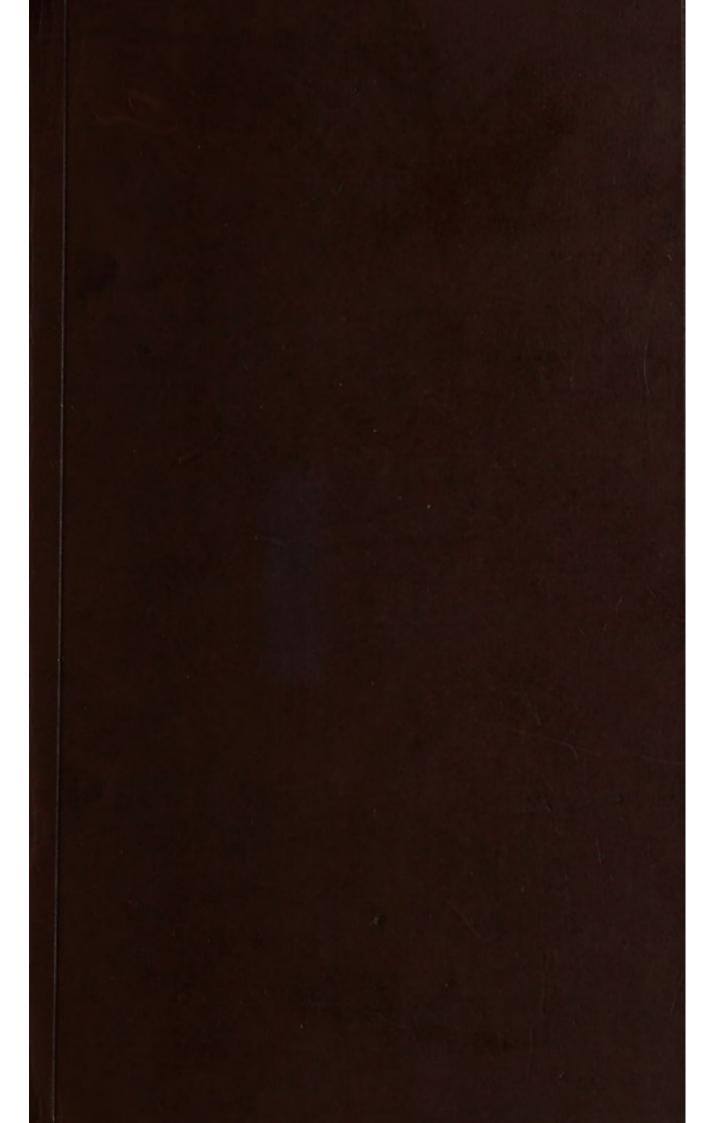
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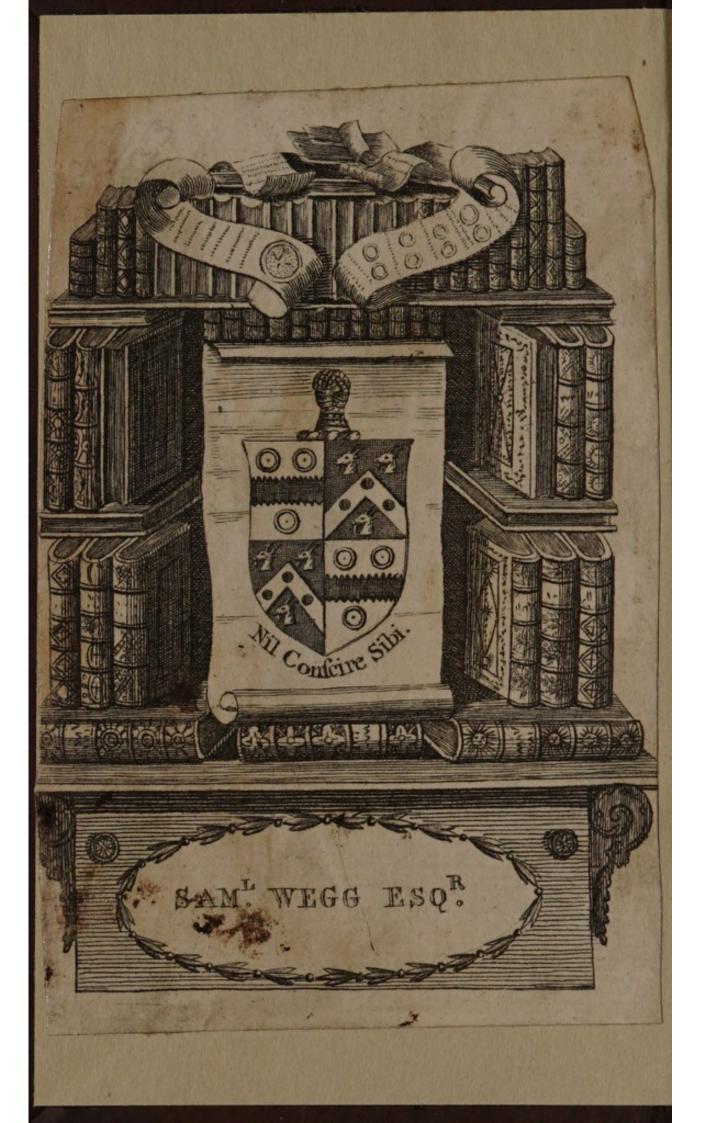
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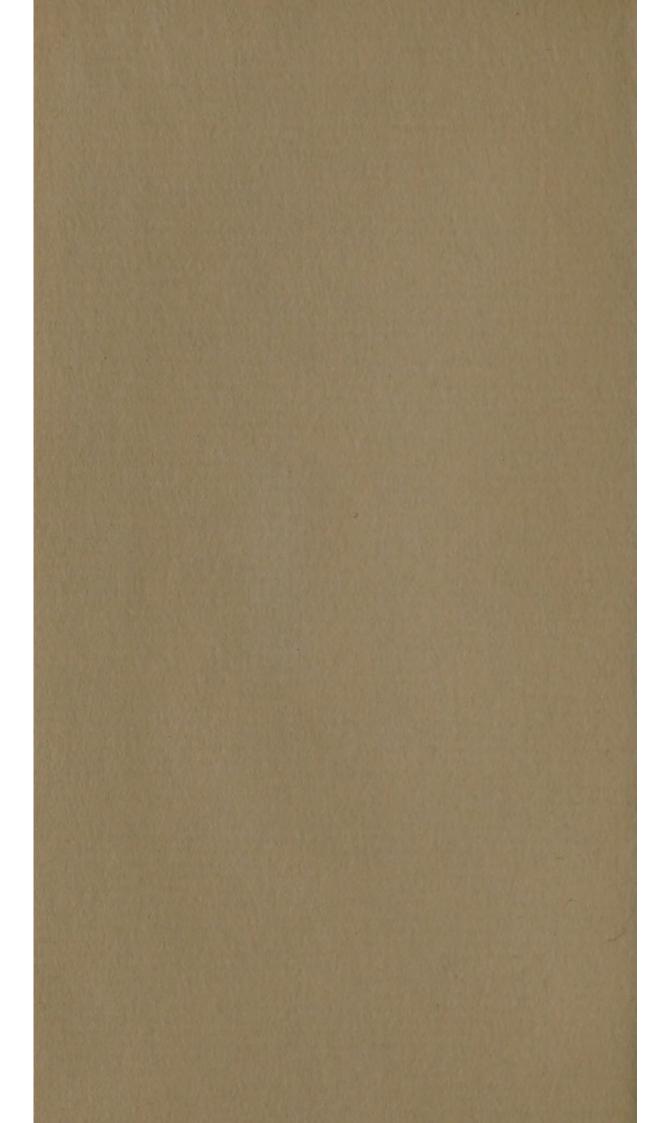
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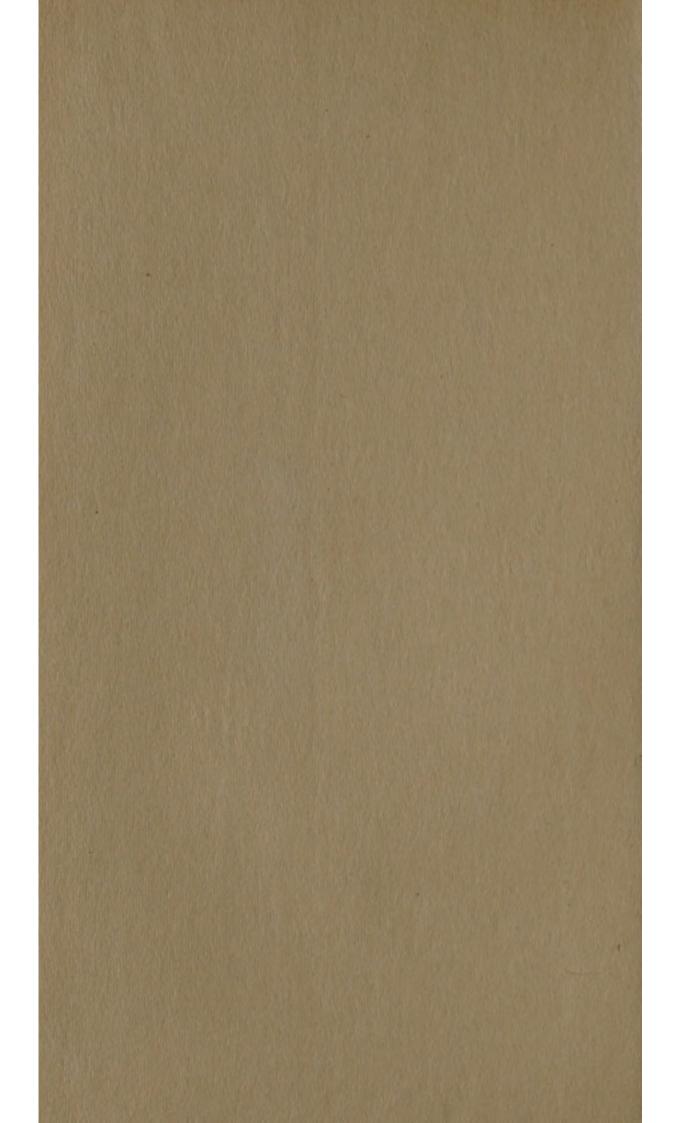


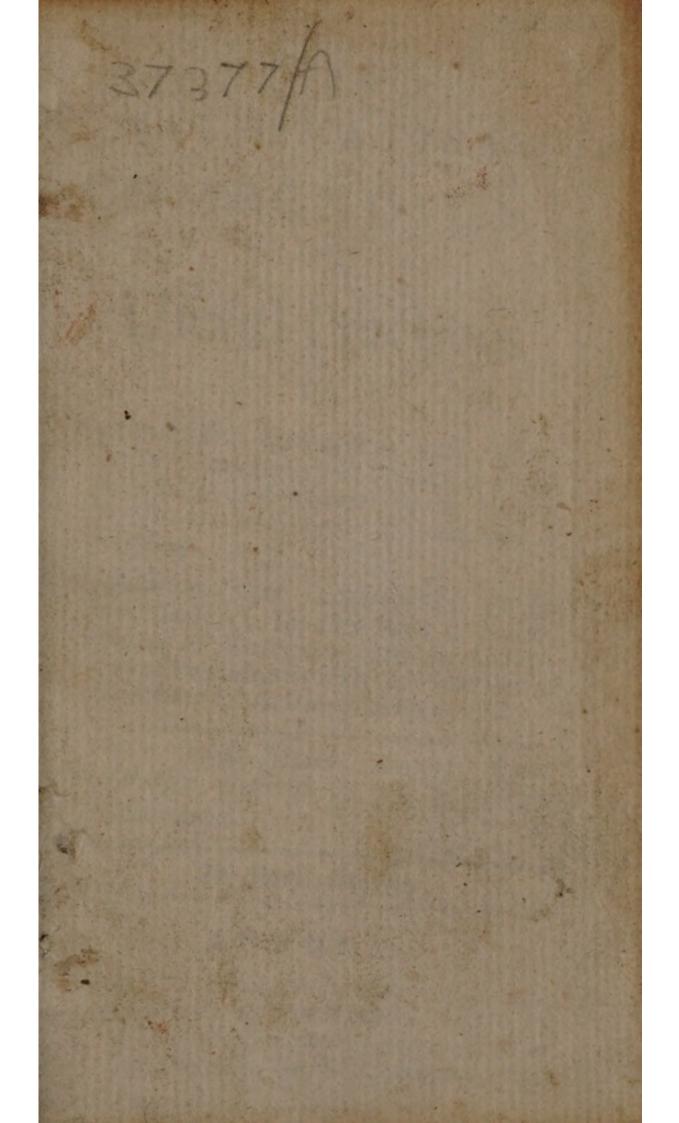
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CA 2 MATHEMATICAL COMPENDIUM;

OR,

Useful Practices

IN

Arithmetick, Geometry, and Aftronomy, Geography and Navigation, Embattelling, and Quartering of Armies, Fortification and Gunnery, Gauging and Dyalling.

Explaining the Logarithms, with new Indices; Nepair's Rods or Bones; making of Movements, and the Application of Pendulums; with the Projection of the Sphere for an Universal Dyal, &c.

By Sir Jonas Moore Knight, Late Surveyor General of his Majesties Ordinance.

The Fourth Edition.

LONDON,

Printed for J. Philips at the King's-Arms in St. Paul's Church-yard, H. Rhodes at the Star, the Corner of Bride-Lane in Fleet-street, and J. Tay. lor at the Ship in St. Paul's-Church-yard, 1705.



TOTHE

Right Honouroble GEORGE Lord Dartmouth, &c.

Honour'd SIR,

that this Compendium
appears abroad in the
world, and though the modefty of the learned Author sufa 2 fered

The Epistle

fered it at first to peep out under a borrowed Name, yet the accurate and succinct method of handling so useful a subject, speaks the Treatise to be (what I know it was) the work of that ingenious and expert Mathematician, Sir Jonas Moor Kt. None have a Title, Sir, to own, or to give Reputation to Books of this nature, that within a thin shell contain a large Kernel and instruct much in sew words; but those who being preferred to publick charges for Learning and Merit, prefer the Publick 6000

Dedicatory.

Good before the applause of the People: And none, Sir, who know by how indefatigable Studies you have perfected your self in all the parts of Matematicks, animating the practice of them by the most exact Theory, and confi ming that Theory by the best of practice; can doubt, but that as your extraordinary Worth bath rendred you acceptable to those who are the best Judges, and truest rewarders of merit; so your Loyalty to your Prince, and Love to your Country, are far deaver to you, than any particu-

The Epistle

lar concerns what soever can be. You have had skill, Sir, to contrive, and valour on many occasions, to make practicable both by Seaand Lani, many great things in Navigation, Fortification, Art of War, Gunnery, and all the laudable Arts that give glory to a Nation; but the particulars you have atchieved therein, the Publick must expect to learn, from those inspired Pens that shall transmit the History of our Times to future Ages, for I should presume above my reach to attempt the task. I beg

Dedicatory.

beg therefore pardon, Sir, for the boldness I take, in prefixing your Name to this fourth Edition of the Book. It has been already well received in the World, and I am perswaded that your innate Disposition to encourage all endeavours that tend to publick advantage, will incline you to imprint on its intrinfical value the currant stamp of your Patronage and Approbation. As this is the best office I could perform in this publication, so is it, Sir, the only way I could find to testifie my gratitude for those. 2 4

The Epistle, &c.

many undeferved favours, you have been generously pleased to heap so liberally upon my Relations and my self, having hereby the honour to profess to the World, how much I am, and in all dutifulness aspire to be,

Your Lorships

Most Humble,

And Faithful Servant,

R. H.

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HIS Note, for the ready taking the height of the Pole by the height of the Pole-Star, Should have ended the Book, but wanting room, I place it here: Consider Fig. 23. where P is the North Pole, ZPN the Meridian, the Circle ZdNb the Circle the Pole * makes about the Pole, Z the Pole & above, N under the Pole, d the Pole & in any Quarter of the Circle, PZ or PN is the Radius = this Year 1674. to 20 25' 55", or 8759", and for every Year to come substracting 20", it will be 1675 = 8739. 1676 = 8719, &c. Next thing to know, is the Right Ascension of the Pole x, which this Year will be 90 121 46" at Z, at every Year adding 1 54th to the former, makes it to be 1675 = 9° 14' 40", 1676 = 9° 16' 34', &c. which must be turned into Time, allowing every Degree 4', &c. Substract the () Right Ascension from Pole * Right Ascension, leaves the time of the Pole * Right Ascension at Z above the Pole, and adding 12 hours at N under.

Now by a true Pendulum Watch, at any time when you would find the Latitude, having the time of the Night, take the Difference betwixt the Pole & Right Ascension at Z, and that time, and turning that into Degrees, Minutes, and Seconds, it shews in what part of the Circle the Pole & is, and in what Quadrant, and the Lat P. Lastly, Add the Logarithms of the

the Cosine d B o, and d B, or P z, and substract the Radius, it gives the Logarithm of Po. Now the height of the Pole * less or more Po. = height of the Pole.

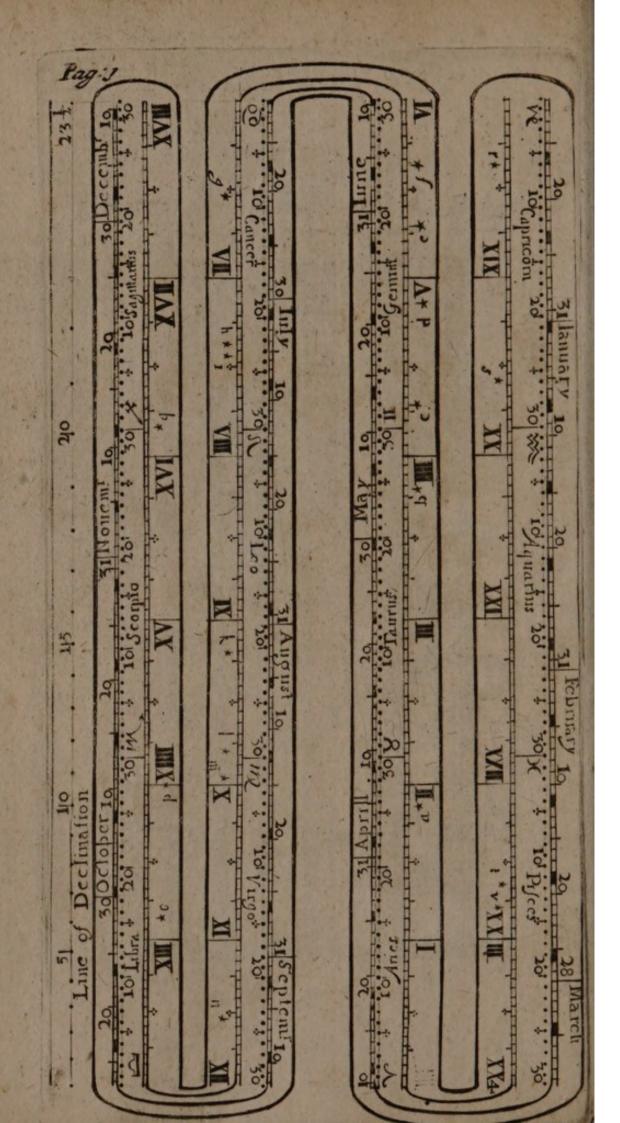
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Modern Fortifications, or Elements of Military Architeture; by Sir Jonas Moore: Illustrated with several Figures.

Decimal Tables to Face Pag:

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CHAP. I.

Of a Perpetual KALENDAR

OR

ALMANACK.

The Uses of three small Tables for finding the Days of the Month, Sun's place, Right Ascension, the Prime, Epact, Moon, Tides, Stars, &c. for Ever.

The first Table or Figures

(2)

This Table begins the first of January, and contains the days of the Year; the first of January is made black, and so every seventh until the years end; there runs along in another Line the place of the Sun answering and opposite to the Days, (viz.) every degree of the Ecliptick from Y to X through the whole Ecliptick, and near to this last Line, there runs a Line expressing the right Ascension of the Sun or Star answering unto 24 hours; each hour is divided intering unto 24 hours; each hour is divided intering unto 24 hours; each hour is divided into 15 parts; which are four minutes a piece; near it are placed small Asterisms with Letters by them for 20 of the principal Stars set down in the Third Table.

The Second Table or Figure.

This Table, Entituled an Almanack for 140 Years, has in the middle Dominical Letters, all the seven backward from A to B, above which are years past, and below years to come, with the Prime or Golden Number under the Years, and the Cycle of the Sun below: These Years are exprest by 2 Figures, and sometimes by one, and are all the Leap-years that are betwixt the Year 1600 and 1740; by explaining the lower row you will easily perceive all. In one Line there is 1660 begins, 1672. 1656. 1668. 1610. 1664. and 1676. tollow, all which are Leapyears, and has to each Year the Dominical Letter above and Prime below, and those intermediate Years that are not Leap-years are to be Suppose I begin at 1660, which hath G for Dom. Letter, and Prime 8; for 1661 it will have F for Dom. Let. and 9. for Prime, and is supposed to stand in the room of (72) For 1662 instead of (56) 1663 instead of (68) 1664 instead of (80) and then 1664; so that Leap

Danid Arch: 5 *East: O day 25 Lady day 25 Apr: *East: Ter.be: 7 Srigeorge: 25	CA DOLLAR DE LA CAMPANIA DEL CAMPANIA DE LA CAMPANIA DEL CAMPANIA DE LA CAMPANIA DEL CAMPANIA DEL CAMPANIA DE LA CAMPANIA DE LA CAMPANIA DE LA CAMPANIA DEL CAMPANIA DE LA CAMPANIA DEL CAMPAN	Tan: Curcumcif: 5 Epiphanue 6 Hil. Tep: be: 23 Car: J. Mart 30 Feb: Puri Mart 3
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	A 2	Leap.

Leap-year is twice accounted, one for that part of the Year, from the beginning of January, to the end of February, the latter for the other part of the Year, and has two Dom. Letters. Further, 1672 is in the Table, but this present Year 1674 is not there, but imagined to stand in the place of 1688, and has D for the Dom. Letter, and 3 for the Prime, accounting from the last Leap-year 1. On either side of the last Oblong are the Months in order, with the Festivals, Terms, and Notable Days in each Month, when they fall upon. The moveable Feasts are marked with a small star, as in February Shrove-Tuesday, and in March Easter-Sunday, and have a day fet to them, to which every Year another number being added makes them certain.

The Third Table or Figure.

This Table has on the left hand in four small Columns, (1) The Prime expressed by Points and Figures down to 19; (2) the Epact answering to the Prime; (3) the Dominical Letter; (4) A number answering, which serves for ascertaining the Moveable Feasts. Next the former, are the Names and Declinations of twenty principal fixed Stars, with the Letters of the Alphabet, to direct where these Stars are to be found in the 1 Table for their right Ascensions, and the tourth Column shews whether their Declimations be North or South. The last thing in this Table observable, is, the New Moons or Changes: It has 13 Columns; the first are the Year of the Lord, every Tenth Year expressed from the o which fignifies 1600, and fo you will find all the figures that stand right, which are 1, 2, 3, 4, 5, 6, 7, 8, 9, stand for 1610, 1620, 6. Then A stands for 1700, and so the figures stand downdownwards 'till 1690, which is for 200 years, the intermediate years to be supplied as was done in the Second Figure, for the Years betwixt Leap-years.

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The Columns under the 12 Months express the day of the mean Change of the Moon every Month, if the Figure stand right; that is, with its head up, it stands singly for so much; if it stand with its head to the right hand, it signifies 10, and so many days belides; if towards the left hand, then 20 and above; if downwards, then 30 and above.

The particular use of the three Tables afore-

faid. Use. 1. To find the Prime, Dom. Let. and

Cycle of the Sun for any year proposed.

Example, 1674 I find in Tab. 2. among the years 72 lait Leap-year; I tell on 1673, 74, where (68) stands, D is the Dominical Letter, 3 the Golden Number (by accounting from one under (72) and 3 the O Cycle. Again, if 1676 were proposed, G and A the Dom. Let. 5 the Prime, and 5 O Cycle.

2. To find the Epack, in the third Table under the title of Epacts against the Prime as a. gainst 3 the Prime, the Epact is 3, against 5

Epact 25.

3. To find what day the year begins on, because A is always the first of January, if that be the Dominical Letter, then it is Sunday; if any other, as in the year 1674 D, tell back to A, as D Sunday, C Saturday, B Friday, A Thursday: All the black days in (Table 1) are Thursdays that year; and having the Thursdays, the rest are had: And thus you may find whether any Lease or Bond he right dated, and what day of the Week any day will fall on that is to come.

4. (Table 1) against the day of the week you may find the place of the Sun, and the right Ascension; as against the 25th of March, the 15 degree of Aries stands, and the right Ascension

1 h. and 8.

5. The (2 Table) amongst the Months shews

(77)

the Festivals and Terms, if they be fixt; but for the Moveable that have a Star adjoyned, you must find how many days must be added each year to them to make them fixt; suppose 1674,3 is the Prime, and D the Dom. Let. against 3 the Prime in the (3 Table) you have E the Dom. Let. and 23 a number; now tell how far distant E is from D forwards, viz. 6, which 6 added to 23, makes 29 to be added to the number against all the Moveable Fearts, to make them fixt for this year; viz. Shrove Tuesday being found on the lecond of February, add 29, makes it the third of March, and Easter day the 19th of April.

6. For the twenty Stars, if any of these named come into the Meridian, or to any known hour of the night, find the Star in the (3 Table) and observe the Letter that answers; seek that Letter in the first Table, and find what right Ascension it hath; take the Sun's right Afcention from it, (but if it be less, add 24 hours) and the difference in time added to the Star's hour gives the

true time of the night.

7. To find what day the Moon changeth each Month, as in the year 1673, look in the (3 Table) against 7 account 1670, tell down, 71, 72, 73, (that is, where E, Itands downwards) it changeth in January the 8th day, in February 7, March 8,60c. (this is meant of the mean Change) If when you have got the day of the Change you place that in the Kalendar (Table 1) you

may find the Moon's age any day.

8. To find the time of high water at London-Bridge, you must very well observe the Column for the Moons Motion and Tides in Table 3 where first you have small figures going down to 15 in one line, and from 16 to 30 in another, being the Moons Age for the Tides, which are had byinspection in the two annext lines divided into hours and fifth parts, and marked with the NII-

Numerical Letters, (the small figures intermix'd, being for the time of the Moon's shining.) As for Example, D 8 days old, it is high water at 9 h. and 24 minutes; at 22 days

old at 8 h. and 36'.

9. To find the length of the Moon's shining; Here the Age of the Moon is accounted down in the first Column to 15, and up again to 30 in the same, and the time is expressed by the small figures amongst the Numeral. As at 8 days old the shinning is 6 h. and 24'. at 24 days 4 h. 48'.

10. For the Moons Rising and Setting take

this Rule.

Increase \{ \(\) rising more \(\) shining \(\) rising.

O setting more \(\) shining \(\) set.

Decrease \{ \(\) rising less \(\) shining \(\) rising.

O setting less \(\) shining \(\) setting.

11. To find the time of the night by the Moons shining on any Dyal; first, the Tides are three hours more than the D Southing otherwife.

'D Southing less by the shadowed hour =

Time in the East.

D Southing more by the shadowed hour =

Time in the West.

12. These proportions are all near true, but not absolute, because they respect only the mean Motion, having not regard to the D Latitude. Without this Book may be had all the three Tables printed together to use alone.

CHAP. II.

Of Weights and Measures. Of Metals, Water, &c. and other useful Notions.

Measures of Application or Length are denominated from the parts of the Body, but are indeed in England taken from the Yard Standard kept in Guild Hall, the third part is a Foot, and the 36 part an Inch; expressed in this Table from an Inch to a Mile.

6	1200	100	10 1210	140000	Marie Land	100	-	11 25 4	,	-00	-
Pag: 9		2724 39204	36000	1296		200		/	/	long	8 Mile
43560	10890	27.24	25	0	Feet.	*	/		Poole	40 Furlong	300
160 17429 4840 43560 Pag: 9	1210	30年	272	Parel	300	3/0	5	1 Enddom	243		
14:29	4356 1210	1089 30年	Pace	10	1/2	2	Pace.		33	880 660 440 220 176 132 110	7040 7280 3520 1,760 1408 1056 880
1 09	40 4	Pole 1	3	15	3	回	14	14	4.2	176	01408
4	Rood	10	5/8	事の	Dard	14	- 13	7	97	0 220	0 1760
18	1	2/2	10/1	Callit	2	21	3-1	4	11 1	0 440	0 352
Acres	/	4	- Bot	11/2	3	34	5 3	9	164	99 0	to 728
1	1	Span	12	2	4	5	67	8	22	88 04	107 0
1	P.I.m	3	4	9	5 17	\$ 15	5 20	2 34	108 66	20 264	3607113
Thic	2	6	12	1.8	36	4.5	99	1	10	7930	633

Turn the side to you, and then this Table of long Measures, (as all the rest after) may be considered as to the Colums or Spaces betwixt line and line from top to bottom; or linear, or by lines from the left to the right. The Column is of the same name as at the top; suppose inches, 3, 9, 12, 18, &c. are all inches: But in the line do severally belong to the name at the end of the line; as 36 Inches, 12 Palms, 4 Spans, 3

Feet, 2 Cubits make severally a Yard.

Square Measures or Superficial are contained in the other part; as, one Pole square are 1089 square Paces, 304 square Yards 2724 square Feet 39204 square Inches. In the Table of long Measure it is said a Pole or Perch is 164 Feet, which is the State Perch; besides which there are other customary Perches or Poles, viz. 18 Feet for Fens and Wood-land, 21 for Forests, Lancashire and Irish Measure, and 184 Scotch.

The Measure for Horses is by the handful

4 Inches.

How these Measures of ours agree with others abroad, see a Table Printed in Modern Fortistications; and at the latter end of this Book.

The Ell is five quarters of a Yard, and has 20 Newles; as a Yard has 16; 4 of an Ell = 4 of a Yard. A Dutch Ell or Stick is three quarters of a Yard, by which Tapestry is measured.

2. Before we come to Measures of Application, which depend much upon Weights, we will treat of Troy and Averdupois weight: By Troy weight, Gold, Silver, Jewels, Amber, Electuaties, Bread-Corn, Liquors, are weighed; and from this Troy Pound are taken all Measures for wet and dry Commodities.

Averdupois weight weighs all manner of

things

things that can waite, and thought the Pound Averd. be greater than the Pound Troy, yet the Ounce is less. The Pound Troy is divided into Ounces, Peny-weights, Grains, &c. and the Pound Averd. into Ounces 3, Drams 3, Scruples 3, Grains Gr. The Tables follow.

Tr	oy Weig	ht.	Apoth. Weight.					
Grains.			20	9	100	THE PARTY.	in h	
24	Pen.wt	1000	60	3	3	263	ice.	
280	2.3	Ounce.	The second second second	24	8	3		
5700	240	12 指	5760	288	96	12	fb	

Apothecaries make up their Medicines by the last Table of Troy weight, but buy and sell Drugs by Averd.

Scruples.	Drams.	Averd	Weigh	t.	
3		of pos			
24	8	Ounce.	1		
18	121	16	pound.	THE STATE OF	7
43008	14336	1792	112	Hund.	2
1860160	286720	35842	2240	20	Tun.

The great Hundred is always 112 l. and 20 of these make a Tun. Eighty Ounces Averd. make near 73 Ounces Troy, which is 5 l. Averd. to 6 l. Troy, which shews the Ounces Averd. lesser, and the l. Averd. greater than the Ounces or l. Troy.

Dr. Wiberd, who was very diligent, makes 14 l.

Averd. equal to 17 l. Troy; therefore let this

proportion hold; Troy l.to Aveid l. 17. 14.

Troy out o Avou 51.50.

And

And by very good Experiments of him and others, it will be very useful to know, that one Ounce of pure running or rain water Troy will fill 1,8949 inch, and 1 oun. Aver. 1,72556 inch. One 1. Troy will fill 22,7368 folid inches, and 1 l. Averd. 27,609. One folid Foot will hold

76 1. Troy, and 62,588 Averd.

A Tun weight Averd. is always 20 C of all things, except Lead, which is 19 C. and a half Allum, Cinnamon, Nutmegs, Pepper and Sugar has 13 1/2 1. to the Stone, and 108 1. to the C. Essex Cheese or Butter the Clove is 8 1. the Wey 32 Cloves, or 2561. In Suffolk the Clove is 8 l. the Wey 42 Cloves, or 336 l. Hay should have 20 C. but is fold for 18 C. 36 Trusses, or 2016 l. Wooll is fold by the Clove, or half Stone 7 l. by the Stone 14 l. Tod 28 l. Wey 182 l. Sack 364 l. Last 4368 l. Iron and Shot are weighed 141. to the Stone, 28 1. to the Quarter, 1121. to the C. 20 C. to the Tun. A Faggot of Steel is 120 l.; a Burthen of Gad-Steel is 2 score, or 180 l. For the weight of Butter and Sope, 56 l. of Butter, and 60 l. of Sope make a Firkin, and four Firkins a Barrel of either.

3. Dry Measures of Capacity are raised from the Gallon, containing 8 Pints, which should be contained in 2724 Cubick Inches, and should hold of pure running or rain water 9 l. 13 oun. 12 dr. ½ of Averd. Weight. Therefore to come to a true Gallon for dry measure, if you make a square Vessel that shall have each side 6 inches and 48 hundred parts of an inch, or if you weigh with Averd. weights, 9 l. 13 oun. and 12 drams of clean rain or running water, either of these

will find out a Gallon dry Measure.

(13)

Corn Measure.

Pints								
8	Gal							
16	2	Peck					-	
64	8	4	Bulh	14.34			- 166	
128	16	3	2	Stril				
256	32	16	4	2	THE OWNER OF THE OWNER, WHEN		or co	
512	64	32	8	4	2	Sear	n,raf	or quart
3072	384	192	48	24	12	6	Wey	-
\$120	640	320	80	40	20		Contract of the last of the la	Last.
Alil	81	17						5120
B 140	171.	17	56	IC.]2C.	4C	24C.	40 C.

The number in the Line A expresseth in pounds Troy the weight of Wheat in all the

Measures, in B. Averd weight.

Meal is weighed as Corn, but the Common repute is, that a Gallon of wheaten Meal weighs 7 l. Averd, and 8 l. 6 ou. 4 d. weight Troy; and fo a Bushel 56 l. Averd. and 68 l. 1 ounce, 12 penny weight Troy. All other Grain, likewise Salt, Lime, Coles, &c. follow this measure, which is called Winchester measure: But note, that as Sea-Cole and Salt are measured with this Bushel, then they are heaped, or else there is allowed five striked Pecks to the Bushel; and this is called Water-measure; 36 such Bushels are a Chaldron of Coles; and on Ship-board they allow 21 Chaldron to the Score.

4. Liquid measure is either Wine, or Ale and Beer measure. The Gallon for Wine measure contains 231 Cubical inches, and should hold of rure rain or running water, 81. 1 oun. 11 dr.

Averd. and 9 l. 10 Oun. 14d Troy; Therefore to get a true Wine Gallon, make a square vessel that shall have all the squares and depth 6 Inches and 13 hundred parts of an inch, or if you weigh with Averd. weigh 8 l. 1 Oun. 11 dr. of pure running water; either of these will find out a true Gallon of Wine measure.

weight.	a special							
verd. 17 C.				ads	tions	1 Buts	2 Tun	1. Oyl, . Ore
A Tun of Wine weighing Averd. 17 C. weight. One Pint 1 L. o. Ounces Troy.	lets	rrels	Terce	I Hoghe	672 84 43 23 2 13 Puntions	43212	2016/256/14 4 6 4 3 2 Tun	ic for Hone
A Tab	Tall. 18 Rundlets	311 Barrels	42 21/1	6331 2	84 43 2	1008 126 7 4	256 14 4	The fan
A T Pints	144	252	336	504	672	1008	2016	

5. The Gallon for Ale or Beer holds 282 folid inches, and weighs of pure water 10 l. 3 out 14.26. Therefore the square Vessel ought to be 6 inches and 55 hundred parts of an inch each way, and the water 10 l. 3 oun. 142 Averd to find this Gallon.

A Table

A Table for Beer.

Pints	C-11	2 90		
-	Gall.	Firk.		
		2		SER III. LES IN FOR
288	man 1 197 - 19 1	-	TAXABLE PARTY	Barrels.
5.76	7.2	8	4	2 Hogsh.

Ale.

Note that Vesels for Butter, Fish, Sope, follow the Ale measure of a Gallon; 8 Gallons make a Firkin, 2 Firkins a Kilderkin, 2 Kilderkins an Ale Barrel, and 12 Ale Barrels a Last.

6. Tale and number of feveral goods.

Of Canvas cloth, the C. is 120 Ells; of Fuftion 1 Chef is 14 Ells; of fine Linnen, Silk, and

Syndon, 10 Ells.

Codfish, Haberdine, Ling, &c. have 124 to the C and 1240 to the M. Eels 25 to the strike, and 10 strike to the Bind. Of Herring 120 to the C. 12 C. to the M. laid in a Barrel, and 12 Barrels to a Last.

Tale of Furrs, Filches, Grayes, Jennets, Martins, Mincks, Sables, 40 Skins is a timber other

Skins 5 score to the C.

A Seam of Glass is 24 stone, or 120 l.

One Bale of Paper is 10 Ream, a Ream 20 Quire, a Quire 25 sheets.

One Rowl of Parchment is 5 dozen, a dozen

12 Skins.

Ten Hides are a Dicker, a Last 20 Dikers. Ten pair of Gloves a Dicker; and so ten Hors-shoes.

Tale of Fuel. All Billets should be 3 Foot long, and so all Faggots; and the band beside the knot 24 inches round, and not flat.

A Last of Powder is 24 Barrels or Firkins,

which must hold a rool, neat.

Timber is fold either by the Tun or Load; a Tun is 40 Foot folid, a Load is 50 Foot folid.

7. Of Gold and Silver. They are near the proportion of 12 to 1; therefore if an Hebrew Talent of Silver be valued at 375 l. that of Gold will be 4;00 l.

The value of Gold here in England is as follows. One peny weight of Angel Gold is worth 4 s. 2 d. ob. of Crown Gold 3 s. 10d. ob. of So.

vereign 3 s. 6 d. ob.

One pound sterling money ought to have II ounces 2 penny weight fine Silver, and 18 peny weight Allay.

Fineness of Gold is esteemed by the Karract; no certain weight, but the $\frac{1}{2}$ of any quantity. This Karract is divided into Grains and Parts.

The Karract that weighs Jewels is divided into 4 gr. of which grains 20 make 24 gr. Troy,

or I peny-weight.

8. Metals, Stone, Liquors, Grain, &c. are compared as in the Table following; where there are four Columns; the first contains the names of them; the second Column A has their weights in Troy Ounces answering to a Cubick inch of Magnitude; the third Column B has their Magnitude in inches and Decimal parts, answering to one Oun. of Troy weight; the third

Column C. is the weight of a Cubick inch in the water, in Troy ounces and Decimal parts.

	Ou. A.	inch.	B. C.
@ Gold. ——]	9.91735	0.10083	9.33962
Quickfilver -	7.93388	0.12604	7.35615
b Lead-	6.16198		5.58425
Silver—	5.50083	0.18179	4.92310
Q Copper	4.81342	0.26776	THE RESIDENCE OF THE PERSON NAMED IN COLUMN 1
d Hamer'd Iron		0.23360	
Cast Iron-	3.96821	THE RESERVE OF THE PARTY OF THE	3.09048
u Tin-	3.96694	0.25208	
	1.59631	0.62644	1.01858
Marble	1 - 20025	LOGIOUS	10,50052
Common Stone-			
Honey	0.79339		0.21566
Salt water	10.57773	The state of the s	0.00000
Fresh wa. or wine	0.52773	1.77490	I STATE OF THE
Oyl	0.47603	2.10069	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN
Wheat	0.37628	2.65757	A CONTRACT OF THE PARTY OF THE
Dried Oak	0.40745	2 45609	-
Thouseasthase	Tables	ill appear	hereafter

The uses of these Tables will appear hereaster in the Rules of Bractice li. s.

Troy wt. 11. sover. Gold is worth \ \ \frac{42}{51} \ \ \frac{10}{14\frac{3}{8}} \ \ \text{So that 100l.in Crown gold weighs only 11. 12 ou.}

and 100l in filv. money will weigh 26l.9 ou. Av. You may find by the former Rule and Tables,

that one cannot well be cheated by the bulk of gold and other metals, by reason of the weights.

To end this Chap. I have added the Assize of Bread in Averd. weight; a very useful Table to correct Bakers; the Town-Bakers Prizes being on one side, Foreigners on the other; the Table in it self will be information sufficient. The Officers in towns, and Justices of Peace in the contry ought to observe these Rules: On the right side and left there is set down the price of a bushel of wheat, and if the Bakers want 1 ouncein 36, to suffer the Pillory.

The Assize for Bread for all Weights.

1	10,15,2153	Annual residence of the	A STATE OF	CATORITON AND COMPANY	Sections of			
Town.		A SERVE	of a Peny Loaf.					
Free	Troy	Fallod		Averd.	Foreign			
s. d whi	ite wh.	hou.	white	wh.	hou, is, d			
	13 25 4		15 7	23 1				
2 3 15	17 25 3	30 14	19 2		28 426			
2 9 13	3 19 13	26 7	12 1	18 22	4 3 3 0			
THE PERSON NAMED IN	5 18 8	THE RESERVE OF THE PERSON NAMED IN	Committee of the last of the l	spinners, street, services 2 1	ALTERNATION OF THE PERSON NAMED IN			
3 3 11	9 17 6 14 16 5	23 3	10 11	15 17 2	0 18 2 0			
3 9 10	5 15 7	20 9	9 8	14 2 1	8 16,3 0			
4 0 9 1	12 14 10 4 13 14	19 8	8 10	13 7 1	7 16 3 3			
SHOW THE REAL PROPERTY.	13 13 4	-	-	-	The same of the sa			
THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	7 12 10	16 14	7 13	I IOI	DESCRIPTION OF THE PARTY OF THE			
5 08	1 2 1	16 2	7 7	OCCUPATION AND DESCRIPTION OF THE PERSON NAMED IN COLUMN NAMED	4 14 5 3			
5 3 7 1		15 7	ACCURACION DE LA CO		4 256			
5 9 7 6 0 6 1	2 10 11	STORAGE STATE	105	Statement like	3 0,60			
6 0 6 1	410 41	3 11	5 55	8 1	2 10 6 3			
6 3 6 1	69 91	2 12 5	C. C	151	The second second			
6 9 6	3 9 41	2 6 5	128	9 1	570			
705 1	5 8 15 1	1 15 5	9 8		1873			
7 3 5 1	98 11	1 95	5 7	18 10	579			
7 95	78 31	0 144	197	00	1980			
8 0 5	-	0 9 4	PERSONAL PROPERTY.	The same of the same of	886			
8 3 5 8 6 5	The second second second	0 5 4	The second second	1 1 9	886			
	47 59		. 96	138	18190			
004	217 29	814	66	10/8	12,93			

CHAP. III.

OF

ARITHMETICK.

And its PARTS;

And of the most easie performance of Multiplication, Division, and Extraction of the Roots by Nepayre's Rods: The use of the Fable of Logarithms herewith Printed: Decimal Tables, Progression and Proportions.

St. OF the fix principal Parts; Numeration, Addition, Substraction, Multiplication, Division and Extraction of the Roots; but first notice must be taken of these sew Characters.

-- Addition or more Divis.) Divid. (Quot. X Multiplied by Z. Summ X. difference.

1. Numeration gives the value we place upon the 9 Digits; the first place is of simple Unity towards the right hand, next Tens, next Hundreds, next Thousands, &c. And so each place tentimes more to the left hand; as you may see by the value of this number, 75,832 which is 75 thousand 832.

And as this increaseth towards the left hand, in a Decuple proportion, so may all parts or fractions of any whole thing decrease from Unity in the same proportion towards the left; as that after Unity to be Unity into 10 parts, the next into 100 parts, Ge. and though we in England do

do not divide our money, or measures into these parts, yet to make Arithmetick easie, we turn our accounts into it; and for the better understanding hereof, take notice that at Rome their money consists in Ducats, Julios, Baioccas: Ducats is their Integer or whole Unite; ten Julios make a Ducat, and ten Baioccas a Julio: So that to express 35 Ducats, 8 Julios, and 7 Baioccas, they set them thus; 35,87, that in respect of Julios it is _8 of Baioccas _7 oparts of a Ducat; This is the true Decimal Arithmetick or Natural: But to break into other parts is inartificial, 282 imagines the whole divided into 3 parts.

2. Addition, whether whole or parts, takes the general Summ, and Substraction the diffe-

Ex. 92.7 Unite be kept under Unite:
315, 89 Suppose the Ex. here Ducats,
2781,51 Ju. and Ba. the Summ would
be 3547 Ducats, 3 Julios, and
8 Baioccas.

Ex. From 562 Ducats, 8 Jul. and 4 Ba. take

381 Duc. 2 Jul. and 7 Baioc.

Ex. 562,85 mains 181 Duc. 5 Jul. and 7
381,27 Baioc.

any Gentlemen or other, especially Ladies, desire to look into their Disbursements, or layings out, and yet have not time to practise in numbers, they may, from Mr. Humphrey Adamson, dwelling near Turn-stile in Holborn, have those incomparable Instruments, that will shew them to play Addition and Substraction in 1. s d, any whole Numbers, without Pen, Ink, or help of Memory; which were the Invention of that worthy Person, and Ornament of his Country, Sir Samuel Mereland Baronet

3. Mul.

Multiplication by memory is fit for those that have constant practice, but for certainty and ease no Invention ever came near that of the Lord Nepair by Rods, made either of Wood or Ivory. Sir Samuel Moreland has devised a neat way upon Circles, but Vastly chargeable, and that has been the reason why they have not been so well known. I have at last cloathed sticks with Papers printed, and at very easie charge they are to be had ready varnished, better for use than made of silver, and sold with this Book as one, with one or more papers ready to be pasted upon sticks, if the Box should be lost, and cannot be false.

To double or treble a number will be found ready by any one, as to double 7584, say, twice 4 is 8, twice 8 is 16, setting down 6, and bearing one in mind; twice 5 is 10, and 1 I carried is 11, setting down 1 and carrying 1; twice 7 is 14, and 1 is 15; all which is 15168. The same for multiplying by 3.

Before I come to the use of the Rods, it will be very sit to shew how Multiplication may be wrought by making a Table of the Multiplicand to 9, as follows Suppose I would Multiply 6831, by 693, I take the Multiplicand 6831, and making a line before it, I set down the Digits to 9, I double it and set it against 2, I add the first and second for 3, I double that against 2 for 4, add the second and third for 5, double the third for 6, add the third and sourth for 7, double the fourth for 8, and add the fourth and sisth for 9. See the Table

(22)

TableX.	and the second of the second
1 6831	6831 Mutiplic.
2 13662	693 Multiplier.
3 20493	20493
427324	61479
5 24155	40986
6 40986	
7 47917	4733883 Product.
8 54648	
9 61476	

Now fet down the Multiplicand and Multiplier and fet in the Table the number against 3, and set it down against 9, and set it one place to the right hand, against 6, and set still one place surther, as in

the Ex. whereby adding all the three Multiplees you have the general Product 4733883. You may try with lesser numbers, and perfect this

way in an hours time.

The Rods being fet together, make this Ta-

ble at one work for prefent view.

First then, having the Box open, you are at the first sight to know what sigures stand on each side of the Rod; that next to you is fair, that under it, or the side the Rod lies on, is the complement to 9, and the figures on both sides of the Rod are seen at the bottom by two small sigures under the black Line: Suppose you see the Rod 6 upwards, you will know 3, the Remains to 9, is under, and at the bottom you will see 1 on one side and 8 on the other; so at one glance you have four sigures, know 6, 3, 8, 1, and this is proper to each Rod, and must be perfectly learnt. From hence you may find, that 10 Rods have all the Digits four times over, that is four 1, four 2, four 3, four 4. Ge.

Having learnt quickly to find a Figure, the next is to place the Multiplicand upon the Rod; suppose in the Ex. 6831, I find these 4 figures as before, and placing 6 next the Index (fixt in the Box) then 8, then 3 and 1; the Digits are then Tabulated, and against every Digit in the Index you have the very same figures as in the

Table

(23)

Table aforegoing, to be found with this Caution, that you begin at the right hand, and taking out first the single figure that stands in a triangle, after that you must take the two figures that stand in the Rombus, if there be two, and if both be under 10, write the Summ down as one figure; if above 10, write the furplufage above to down, and carry one to the next cell; but all will be better seen from the Rods themfelves than 100 times from Words. See the (firstFigure) in the last page, where you will find the former number 6831 on the top, and against 2 (which is two times the number) you have in the Triangle first 2, then in the next Rombus 6, next 2 and 1, which you fet down as 3, last 1, which makes 13662, as in the former Table; next fix times is first fix, then 8, then (8 and 1) = 9, then (6 and 4) = 0, then (3 and . i) = 4; fo the whole will be 40986, and nine times will be 9, 7, (2 and 2) 4, (4 and 7) 1, (5 and 1) 6, (61479) as in the Table before; a finall labour will make you read the Rods as quick as you may see them in the Table, either backward or forward.

If there be any decimal parts in the one or both Md or Mr, tell their number of places, for there must be as many places cut off by the di-

Ainction as were in both.

Multiply 37, 5, that is 37 Duc. and 5 Jul. by 15 91, that is 15 Duc. and 9 Jul. and 1 B. You shall have the Product 596, 625, that is 596 Duc. 6 Jul. 2 Baioccas and a half; there are 3 places cut off because there was 1 in the Multiplicand, and 2 in the Multiplier.

4. Division has no more difficulty than formerly; tabulate the Divisor on the Rods, one Example will be sufficient; let the Dividend be 4733883, the Product in the former Example, let 6831 be the Divisor to be tabulated on the

Rods

Rods, you have the multiplying of it to 9, before which is here repeated.

1 6831	Divisor \	Lividend	/ Quotient
2 13662	6831	4733883	693
3 20423		40986	
4 27324	A STATE OF THE STA	63528	
5 34155	STATE SING	61479	
6 40986		20493	
7 47817		20493	
8 54648		0	
9 61479		ALLE CHE	

The Table of the Divisor stands for the Rods; first, I see that 6831 will not be in 4733, therefore you must go 5 places; then looking on the Rods, or in the Table, for a Number that is equal or next less to 47338, I find it to be 40916, that is 6 times the Divisor; I set 6 in the Quotient, and substract 40986 from the figures above, rests 6352, to which I add 8 the next figure of the Dividend, and seek again upon the Rods or Table for ir, or the next less, which I find to be 9 times, I set 9 in the Quotient, and take 61479, plac'd as in the Example, and substract it, remains 2049, to which I add 3 the last figure and work as before said, 3 times carries all away, and nothing remains, the Quotient being 693.

For Decimal parts there must be as many places in the Divisor and Quotient as are in the Di-

vidend, in this Example.

12,91) 596,625 (37,5 In the Dividend there

4773

11932

11137

7955

7955

10 Decimal or fewer

in the Dividend than Divisor, put as many Cyphers as you please after the Dividend, which are decimal places, and if you find that there be defect in the Quotient, put Cyphers before

it to supply the places.

Point each other figure beginning with the last, as in the Example, 6, 5, and 7, which shews there will be 3 figures in the Root. (2.) Take the Rod

called the square Rod that has at the top a square, and set it to the Index, and seek for the Figures; the first prick (57) you will find 49 nearest; set 7 in the Quotient, and substract 49 from 57, rests 8. (3.) To this Re-

571536 (756 49... 14) 815 725 150) 9036 9036

mainder (8) add the next two figures to the next prick (15) makes it 815, (4) Double the Quotient 7, viz. 14, and fet it upon the Rods, and place those Rods be twixt the Index and square Rod, each time afthe first work: Seek then upon the Rods for the next less or equal number to the figures 815, which I find to be 725, that is 5 times; fetting 5 in the Quotient, substract, and to the Remainder add 2 places to the next point (36;) lastly, double the Quotient 75, which is 150, fet this betwixt the Index and square Rod, and work as before, you will find the Root 756, which multiplied by it felt produceth the square number 571536. If your Root be not perfect, but something remains after the last Substraction, add Cyphers to the Square, and proceed.

6. Extraction of the Cube Root; (1.) Point every third figure from the last, set the Cube Rod that hath Cu. on the head, to the Index in B

the Box, feek the next less on the Rod, which

is in the Example 64, that is 4 times, set 4 in the Quotient and substract, rests 27, to which add 3 figures to the next point, the sum is 27733. (2.) Square the figure found in the Quotient, and triple it (and this must be done each time) for a Divisor, which set betwixt the Index and Cube Rod, in this Example, 4 being the Quotient,

multiply it by it felf, makes 16, and that multiplied by 3, makes = 48, which on 2 Rods I place in the box betwixt the Index and CubeRod for a Divisor. (3.) Seek a Quotient, which will be found 5, which fet down, and the number anfwering 24125 place as in the Example, but before you substract you must triple the Quotient 4, which is 12, and multiply it by the square of the last figure 5, viz. 25, now 25 by 12 makes 300, which place under 24125 one place forward to the left hand, as in the Example; then add those two numbers makes 27125, and substract it, rests 608. This work must be repeated for each figure in the Quotient, viz. to 608 add 851 for a Resolvend, square 45, and triple it makes 6075 for a new Divisor, which being placed next before the Cube Rod, shews it will be but I for the Quotient, which answers to 607501, which is set down, and tripling 45, and multiplying it by 1, makes 135, which fet one short, makes in the whole 608851, so that nothing remains. something remain add Cyphers, 3 for a figure and it will give a Decimal fraction. Thu

Thus much with a little practife, and that the Boxes are to be had with the Book, will render all General, and it would too much augment this finall Volumn, to teach the use and making of Duodecimal Rods, Sexagenary for the old Astronomy, and Centessimal, all which

works two figures at once.

7. Nepaire's Rods will reach to great Numbers; but for Numbers under 100000, the faid worthy Lord invented a far easier way to perform Multiplication by Addition, Division by Substraction, Extraction of the square and Cube Roots by halving or trifecting, and all this by certain Numbers in a Table called Logarithms, Printed at the end of the Book, where in the first page all Log. answering to all numbers under 100 are easily found, viz. the Log. of 38 is 1.579783, of 72 is 1.857332, O.c. If the number confifts of 3 places, that is a number under 1000, look for the number in the Table under N, and the Log. is found in the Column under O; so the Log. of 349 is 542815, of 893, is .950851. If the number be of 4 places, and under 10000, feek the 3 first figures under N,as before, and the last figure on the top, under which in that Column lineally against the first; sfigures you have the Log. As for Example: The Log. of 3583 is:554247, finding 358 under N, against which in the Column under 3, is that Log. so the Log. of 4268 is 630224, of 9546, is: 979821: But if the number be above 10000, and under 100000, you must find it by the difference and Table of Parts Proportionals Printed at the end of the Table of Log. thus; if the Log. of 35786 be fought, first feek the Log. of 3578, which will be 553649, and the common difference under D, 121; with this difference enter the Table of Parts proportional, and find 121 in the first Column under D, and then

then lineally against that number, and under 6 the last figure of the last place of the number 75786, found at the head in the 7th Column you will find 72, which added to the Log. of 7578, viz.553649, makes 553721 the Log. of 75786.

Now before we proceed to find numbers anfwering to Log. it will be fit to shew you, what is meant by the first figure placed to the first 100 Log. which Mr. Briggs called a Characteristick or Index, which represent the distance of the first figure of any whole number from Unity, whose Index is a Cypher or o; and so the Index of Tens is 1, of 100 is 2, of 1000 is 3, and CM.XM,M.C.X.V.

as in this Line

fo that

5 4 -3 3 1 0 in this Number 687325 the Index of 5 is 0, of 7 is 3, of 6 is 5; But of Decimal parts it proceeds the other way; as that of ten parts is T, of 100 parts is 2, as in this Line 3,5781, the Index of 3 is o, of 5 is of 8 is 3, of 1 is 4; or after the proposal of Mr. Christopher Townley, take their Complements to 10; as instead of T take , of 2 take 8, of 3 take 7, which will make the Addition and Substraction more easie and plain; if the former be used let it be called the first, if the later, the fecond manner.

210, 123437 Index the first way.

Of Indices 378, 234189 Number:
210, 987854 Index the second way.

Having laid down the grounds for the Indices, or the first figure in each Log. the absolute Log. will readily be fet down, making the first figure the Index of the first figure of the number; as the Log. of 5784, the first Log. in the Table, is 762228. The Index of the first figure of the number 5 is 3, so the absolute Log. 15 3. 762228.

578,4 - 2.762228 So that the Log. is the 57,84 - 1.762228 Same, but the Index of the 5,784 - 0.762228 (first figure altereth.

5784 - 5.762228 ? In pure parts the Log. ,05785 - 8.76:228 Sis the same, but the Ind. ,005784 - 7.762228 (altereth after the 2 way.

Now to find the number answering to a Log. given omitting the Index; feek the rest fix places in the Table of Log. and where you find the Sum, or nearest the numbers in the Margent N, and over that Column will make out 4 places; The Log. 3.544821, omitting the Index 3, I find 544821 to answer 3506, and the Index shews they are all Integers, the Index shewing the first figure to be the third from Unity 6; so the Log. 1.544821, would shew 31,06, that is 35 Integers, and - 35 parts, and 7.544821. 03506 parts. But if the Log. be not exactly to be found, and that you defire to have places to five figures, first, find the number to 4 places as before, with noting the common difference under D on the fide, and taking the difference betwixt the Log. given and the Log. found in the Table, then feeking the common Difference in the Table of Prop. parts, in that Line find out the difference of the Log and over the head you have the fifth figure. Example of this Log. 2.543612, the Log. next less is 543571 answering to 3496, the common difference is 224, the diff. of the Log. is 41, which in the Table of Prop. parts against 124 gives 3,/ fo that the absolute number is 34963, and because the Index is 2, 34963.

Addition

Addition of two or more Log.

If the Indices be both (or all) Integers or

whole, add them without any more.

If the Indices be someIntegers, some parts, that is, be unlike, if the Index upon adding be 10, or above, cast away 10, the Remainder is the Index of Integers, if under 10 Decimal parts.

If the Indices be both Decimal parts, and if added be under 10, add 10 to the same, if just 10 then 0, if above 10 cast 10 away; the Index thus gotten is always of Decimal parts.

2.057821	2.237242	7.39794I	3.875061
7.583210	9.875062	5.875062	8.698972
2.641031	8.698971	5,273003	8.574033
en la broad he	0.811275		

Substraction of Log.

If the Indices be whole, then as before.

If the Indices be either of them, or both decimal parts, fet them one over another, then it the higher be a finaller figure than the lower, add 10 to it, and observe whether the higher be of greater value than the lower; if so, the Remainder will be Integers, if not, decimal parts.

2.033421	9.875062	3.875062	1.235781
3.875062	2.033421	8.574031	3.572141
2.158359	7.841641	1.301031	7.665640

The Log. of a Fraction is found by substracting the Log. of the Denominator from the Log. of the Numerator: Sometimes it is found necessary to multiply a Log. by 2,3,4 &c. which If it be an Index of parts, observe that you use the former Indices, viz. For the first part

123, &c. and that in muitiplying the figure next the Ind. the Tens are affirmative, and are to be deducted out of the Product of the Indices of parts.

To divide a Log. of parts, if the Index be 2543211 7.987214 even it is ordinary, but if uneven, then add to 5.629633 7.936070 the Ind. fo many Units

for a new Index, augumenting the next figure by fo many times 10 as you added to the first.

3) 3.321412 3) 7.232151 2.440470 3.744050

The Admirable Uses of the Log. Table

To multiply one Number by any other.

Add the Logarithms of the Numbers, the Sum is the Log, of the Product.

N. Log.

32 — 1.505150 5,12 0 709265 | 52X32 = 1664

51 — 1.716003 1,55 0.190332 | X 5,12 X 1,55

1664 3.221153 7.9360 0.899597 | = 7,9360

To divide one Number by another is to substract the Log. of the Divisor from the Log. of the Dividend.

N. L. N. L. Dividend 7289 -3.862489 N. L. 4512 - 3.654369 Divisor 32 - 1.505150 N. 32 - 3.654369 Divisor 32 - 3.505150 Divisor 32 -

To extract the square Root of any Number is to half the Log. of that N. or divide it by 2, the Quotient Log is the L. of the Root; and to extract the Cube Root, to divide it by 3.

Number 75832 — 4,879852 4879852 Divided by 2) 2.439925 3) 1.626614 Square Root 275,37 Cube Root is 42,327.

To find a mean proportional betwixt 2 numbers, is to add the Log. of them together, and take half;

To find 2, 3, 4, 5, &c. mean Proportionals betwixt any two numbers, take their difference and divide it by a number more by one than the number of means defired, as if 3 means divide it by 4, &c. this Log. Quotient added to the least, finds the first mean next it, and so added to the last finds the next, &c. It is desired to have 3 mean Proportionals betwixt 4 and 64, the Log of 4 is 0.602060, of 64 1,806180; these two added makes 1.204120, the 4 is 0.301030, which added to the Log of 4, makes 0.903090, the Log. of 8 the first mean, and again added gives 1 204120 the Log. of 16, and again the Log. of 32, which 8, 16, 32, are the three means betwixt 4 and 64.

8. Of Reduction, Greater names are brought lower by Multiplication; as Pounds are brought to Farthings by multiplying a Pound by 20, 12, and 4, and back again by dividing by 4, 12, and 20. Ordinary Fractions are reduced into Decimals by multiplying the Numerator by 100 or a thousand, and dividing the Product by the

Denominator.

Hence are all the Fractions of money, weight, time,

(33)

time, &c. turned into Decimals, as follows; Table I. of 1 l. Integer. The half of shillings is the decimal, as of 16 s. is 8, of 6 s. is 13, of 11 s. is 155 of 1 s. los; and note in general once for all, that 4 of any thing is 125 \frac{1}{2} 15 and \frac{3}{4} 175

DECIMAL TABLES.

7.				
Table I. Eng. Coyn 1 l. Int.			19	.039583
1 -0-1			17	.035416
II	.0+5833	333	16	.033333
10	.041666		15	.03125
8	.0375			029166
8	.033333		14	
7	.029166	100	113	.027083
6	.025		12	.025
	.020833		11	.02292.6
2.4	.016666		10	.020833
4	.0125	- 19	9	.01875
5	.008323		8	.016666
2	2		7	.014583
1	.004 66		6	.0125
f. 3	.00313		married reduced	TO SHARE THE PARTY OF THE PARTY
2	.002083		,	.010416
I	140100.		4	.008333
			3	.00625
Table II.			2	.004166
Troy wt. Int. 1. 0%			I	.002083
	A Ala Carros		Table	III. Averd.
Peny wt, the same			great wt. 112 C. l	
with shil.			telline managements in	A STATE OF THE PARTY OF THE PAR
Cont.	A STATE OF THE STA		lib.	2410
gr.	01-016	1533	27	.241071
23	.047916	6171	26	.232142
22	.045833		25	.223214
21	.04375	113	24	.214287
1 20	.041666	1	23:	.205357
The state of	1000000		22	.196428

(34)

-					
1 21	1	.1875	1	luare.	中。这位是自由自
2.0	0 1	.178571	1	3	.000418
1	1 0	.169942	33	2 1	.000276
1		.160714	1	I	.000139
1	CONSUME OF	.151785	1	Fab.IV.	Averd.little
1		.142857	7	weigh	bt Int. 1 1.
I	2000000	.133928	-	oun.	- TE / E -
-				15	.9375
0.1		.125	-	14	.875
1	-	.116071	100	13	.8125
	2	.107142		12	-75
1 30000000	I	.098214	1	11.	.6875
1	0 1	.089285	4.0	10	.625
1	9	.080357	1	-	.5625
-	8	.071428	1/4	9	
	76	.0625		354 TO 10 TO 10	.5
	6	.053571		76	•4375
1	5	.044642		A STATE OF THE PARTY OF THE PAR	•375
	4 1	.035 714		5	-3125
1	3	.026785		4	.25
	2	.017857		3	.18875
	I	.008928	1	2	.1225
our	1		1	1	1 .06625
OL MICESO	15	.008370	1 1	dr.	
		.007812	1 3	15	.058593
	14	.007254		14	.054087
	13	.006696	1000	13	.050781
DO HOUSE	II	.006138		12	.046875
-		.005580	113	II	.042968
1	10	.005022	7/4	10	.039922
	98	.004464	1	9	1 .035156
	N. D. C.	.003906	1	8	.03125
	6	.003348	1	7 6	.027343
1		002790		6	.023437
-	3		-	5	1 .019531
	4	.002232	1000	4	015625
1	3	.001674	1	3	.011718
1	2	011160,	1 3	2	.007812
1	1	1 .000558	1	1	.003906
-	-	-	-	-	

West of the second seco				
quart	生物的	1	1 4	333333
3	.002929	1000	3	.25
2	.001953		2	.166666
I	.000976		1	.083333
Tab. V	Liq. Measure	2 19	quart	Charles of the
Galor	uar the Int		3	.0625
100	THE REPORT OF THE PARTY OF	D T	2	.041666
76	.875	250	1	.020833
0	.75		1 quar.	.010416
5	.625	100	Seat	
4	.5		Tab.	VII. Decimals
3	-375	10.	CT A SECURIT	Year.
2	.27		NO PRO	Committee than 19
1	.125		Month	
quart.	100	-	1 4	.083334
2	.09375	-	2	.166667
2	.0525	-2	3	.25
7	.03.125	1000	36	.59
SHERIT ALLESSES	.03123	Bair	0	:75
Tab.	VI. Inches in	10	Days.	152 00
Dec.	Int. 1 Foot		Days.	0027207
inches		23	2	.0027397
inches		-	2	.0054795
11	.916666	240	3	.0002193
10	.833333	1	4 5	.0109591
9	.75	1		.0136988
8	.666666	2	6	.0164386
76	.583333	300	7 8	.0191784
6	-5	1	8	.0219132
1 5	236666	200	9 1	.0246579

Theuses of the Decimal Tables.

Any parts of money, weight or measure given, you may turn into Decimals or contra. 31. 15 s. 7 d. $\frac{1}{2}$ = 3, 78124, for 15 s. = 75. 7d. = 929166, and $\frac{1}{2}$ 00208, in all 3 l. ,78124. As gain,

gain, 16 C. \(\frac{1}{4} \) 17 \(\text{l. Averd. weight} = 16,90178. \)

If Decimals be to be turned into their natures again, as 37 \(\text{l. } ,5692, \text{ first } 37 \) \(\text{l. is the Integer.} \)

then 55 of the first 2 figures will be 11 s. and the remainder ,0192 will be 5d. \(\frac{1}{2} \).

9 A short Specimen of Fractions for the better remembring the Rules of

(1.) of the great|| Ex. of
$$\frac{36}{36}$$
 G.M. 18) 36(
Common measure|| Ex. of $\frac{36}{54}$ 18) 36 (2 54 $\frac{2}{54}$ (2.) Reduction 16) $\frac{15}{3}$ $\frac{14}{7}$ 15 $\frac{14}{12}$ are $\frac{15}{36}$ are $\frac{14}{36}$ 36

3. Fractions of Fractions
$$\frac{12}{4}$$
 of $\frac{6}{7} = \frac{12}{84}$

4. Addition and Substract.
$$| 15-\frac{14}{29} = 29\%$$
 1
of fractions reduced $| 36$ 35 36 36
s. Multiplicat. $| 2$ $| 4$ $| =$ $| (6)$ Divis. $| 4$ $| =$ $| (7)$ $| =$ $| (8)$ $| =$ $| (8)$ $| =$ $| (8)$ $| =$ $| (8)$ $| =$ $| (9)$ Divis. $| (10)$ $| =$ $| (10)$ $| =$ $| (10)$ $| =$ $| (10)$ $| =$ $| =$ $| =$ $| (10)$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$ $| =$

10. Of Progressions and Combinations.

Unity, you may come at any term of it by multiplying the Log. of the second term by the number of so many places, as the distance requires less, 1. Ex. in a progression that is double, have 1, and the second term 2, and you desire the 8 term, multiply the Log. of 2 by 7, it gives you 2, 10721; the Log. of 128, the 8th term.

term, and this holds if the first term be not Uni-

ty, if you take the Log. of the Ratio.

2. Combination of things may differ many ways; Two only are here considered: (1.) In the changing their position, as in ringing of bells, the other in the matter or substance; for the first, set down a Series of numbers from Unity, multiply 1 by 2 shews

2 things can be changed

1, 2, 3, 4, 5, 6, twice: Again 2 x 3 = 6

2.6.24.120.720. shews there things may

change 6 times, 4 may change 24, and 5 120.

For the second, suppose a b c be essentially different a Ternary; There are three Unites, a, b, c. three Binaries, ab, bc, ac, and one ternary abc. and so many Combinations there may

be and no more.

Now to find out the Combinations it is easily done by the posterior Table in Mr. Oughtred's Clavis Matth. p. (37) he calls it (plena hac my-steriis pulcherimis Tabula) I say the numbers set by the Species shew the Combinations defired, only one of the extream Unites must be left out, and the obtaining those numbers is thus; set down Unity, then repeat two Unites

and leave one space, and then 2 space, 3,4,6 c. the Intermediate are filled by adding the numbers on either side standing above, as to make up the lowest row 1+4=5standing next a-

1.2.1. 1.3.3.1. 1.4.6.4.1. 1.5.10.10.5.1. Oc.

bove on either fide, 4 +

6=10, &c. then leaving out the Unites, on the right hand:

11 = 1

fo that if the 22+1 = 3

matter be 3, 33+3 = 7

there may be 44+6+4+1 = 15

3 Unites, 3 55+10+10+5+1=31

Bina-

Binaries and 1 Ternary in all 7 Combinations.

If the matter be 4, there may be 4 Unites, 6
Binaries, 4 Ternary, and 1 Quaternary, 15 = 6.

quires more; and less less: This is called the Golden Rule, when 3 numbers are given to find a fourth, and requires that the second and third terms be multiplied together, and the first divide that Product, the Quotient shews the answer: Ex. It's yards of any thing cost 15s. what shall 45 yards cost? An. 6l. 15s. for setting them down thus; 5. 15:: 45. 45 X 15 = 675 and 5) 675 (135 = 61. 15s.

The Back Rule requires the first and second to be multiplied, and that the third divide that Product. And this Rule is known, because that more will require less, or less more. Ex. if 4 horses eat 5 pecks of oats in 3 days, 8 horses will

eat 5 pecks in a lesser time.

The Double Golden Rule, or Rule of 5 Numbers is of great use in many respects, and therefore as it is easily explained in Moore's Arith. take it from thence: Let that which is the principal cause of loss or gain, interest, action, &c. be put in the first place; that which betokneth Time, distance of Place, &c. be in the second place, and the remaining in the third; under this Conditional part place the two other terms each under his like; and there will be a blank to supply under one of those above, either under the tirst, second, or third. Ex. If one hundred pound in 12 months gain 6 l. (this is the Conditional part) what shall 50 l. get in 3 months, place them down as in the Rule; and

here the blank is under the third term, but if the demand.

100. 12.

61. had been, in how many

Months would 50 l. have

gained 15 s. or if 100, in.

12 months

12 months gain 6 l. what shall the principal be. that in 3 months would gain 15 s.; in these two last cases the blank would have been under the first or second terms, there are but these Cases: Rule 1. If the blank be under the third term. multiply the three last for a Dividend, and the two first for a Divisor, the Quotient of these gives the fixth; 6X50X3 = 900 and 100X12 = 1200 now 1200) 900, 0 (,75 = 15s. But if the blank fall under the first or second term. then the rule will be; Multiply the first, second and last for a Dividend, and the third and fourth for a Divisor, the Quotient is an Answer: This Rule shews simple Interest, and all belongs to it with ease, and was thus found. Set with Mr. Mern, P. T. G. for the principal Time, and Gain in the Conditions, and p. t. g. answering,

it will be P. G. :: p. $\frac{GP}{P}$ and T. $\frac{GP}{P}$:: t.

Gpt

g. So that multiplying the 3 last for Tp

Dividend, and 2 first for Divisor is the first Gpt

Rule, and because = g. it will be Gpt

 $= TPg thereforet = \frac{Tpg}{pG} and p = \frac{Tpg}{Gt}$ which is the fecond Pule

which is the fecond Rule.

12. To any two Tumbers, to find a third in continual proportion, Rule. Square the second, and divide it by the first.

Rules of Practice,

IN

ARITHMETICK

For Interest, plain and spherical Triangles, Measuring of Plains, Solids, Circles and Spheres, Gaging, Fortification, Gunnery, Astronomy, Dialling, making of Watches and Movements, Geography, Navigation.

S1. R Ules of Practice in Arithmetick: First learn to half a number from the left to the right speedily; As for Ex. 8431076, the half is 4215538, beginning with 8 take 4. of 4 take 2, these are even and easie; but for 3, I take 1, and carry 10 to the next, which is 11, I take 5 remains 10, then for the 0, I take 10 and set down 5, for 7, 3, and for 16, 8. This brings shillings into pounds by cutting off the last figure, and taking the half of the reit; thus

7946 s. make 3,92 l. 6 s. 6.

2. Because that 12 pence make a shilling, it will be well to be expert in Multiplying or Dividing by 12: A small Paper of Duodecimal Arith. was 11 years since drawn up at the defire of Sir Rob. Long, and it seems admirable with what ease and sewness of sigures, that Arithmetick will work all measures by foot and inches, and 12 parts for the inch, and for shillings and pence, and 12 parts of a penny: Here must two sigures or digits be added, viz. x for 10, and n for eleven, the Account will be Unites, Dozens, Grosses, &c. and the parts will diminish

diminish accordingly: But here is not room to explain it, take an Example: A piece of black Marble 2 feet 9 inches and half broad; 3 f. 2 inch. and a quarter deep, and 8 foot 3 inches long, how many feet? And what rate at 15.3

d. 2 g. per foot.

In the first operation, 3+6 = 18, for which fet down 6 (the overplus above 12) and carry one; then 3+9=27, and I I carried makes 28, for which I fet down 4 the overplus above 125. and carry 2, the 12 s. in 28; then 3 + 2 = 6, and 6 + 2=8, the which I fet down. 51122 Then I come to the Mul- 61.4x4=94s. 8d3 q.

(Op.1.)	(Op. 2.)
2.96	61.4
3.23	13.6
846	3080
570	1640
846	614
8.x.946	7x.880
8.3	San Sales
2284	
THE RESERVE OF THE PERSON NAMED IN	

tiplier 2, and fay 2+ 6 = 12, I set down o and carry 1; then 2 + 9 = 18, and 18+1 = 19, for which I fet down 7, and carry 1, and fay 2+2 = 4, and 4+1 = 5, which I fet

down Thirdly, I take the multiplier 3, and fay 3 + 6 = 18, and fetting down 6 carry 1, then 3 +9=27, and 27 + 1= 28, for which I fet down 4 and carry 2, then 3 +2 = 6, and 6 + 2 = 8, 6. which three Products I add, carrying t for every 12, and fetting down the overplus, to is the folidity of the whole Marble 6 dozen and 1 foot. or 73 folid feet and 1

This Table of twelves, or Shillings and Pence is to be got without Book.	d.	S.
Llin	12 24 36 48 60 72 84 96 108 120 132 144	T
Shi	24	2
300	36	3
16.5	48	4
120	00	5
a t	81	7
of t	06	1 2 3 4 5 6 7 8 9 10 11 12
en	108	9
Tal 2 P	120	10
and Book.	132	II
175	144	12

third, and by the second operation, the price will be 7 dozen 10 s. that is 94 s. 8 d. 3 q.

3. The

3. The Aliquot or even parts of Shillings and Pounds are to be learnt, as 1 d. 2 q. is the one eighth part, 1 d. the twelfth part, 2 d. the lixth part, 3 d. the fourth part, 4 d. the third part, 6 d. the half of a Shilling; 1 s. the twentieth part, 2 s. the tenth, 4 s. the fifth part, 5 s. the fourth part, 3 s. 4 d the fixth part, 6 s 8 d. the third part, and 10 s. the half of a pound; knowing these, the price of any one thing will be known, if I l. or I Integer of that thing be known. At 6 d. the ounce, what comes 372 ounces, because 6 d. is the half of a Shilling; take half of 372 = 186 Shillings: The practice you have in every Book of Arith. Likewise you may observe the even parts of other things; suppose the great hundred 112 l. the half is 56, the quarter 28, the eighth part is 14, the fixteenth part 7; so that at 54 s. the C. what come 15 C.3 quarters and 18 pounds, the whole hundreds come to 40 l 10 s. the 3 quarters is three fourths of 54 s. which is 40 s, and 6 d. Lastly, for the 18 l. find what 14 l. comes to, viz. 6s. 9d. and 4l. to 1s. 11d. in all 42 l. 195. 2d.

4. The hundred weight whether neat, or the great C. which is 112 L. it will be worth while to give you the price of either at any small rate the pound weight; Ex. at 3 d. 2 q. the pound, what comes either C. to: Put the price of a pound into farthings, viz. 14; for the Neat C. account twice to many Shillings, and as many pence as farthings; and for the great C. twice To many Shillings, and as many Groats as there be Farthings in the pound weight. Ex. 145. and 14 s. make 28 s. and 14d. makes 29 s. 2d. the Neat C. and 14 s. twice, and 14 Groats make 32 s. and 8 d. for the great C. So daily expences are for every penny spent a day, one pound; one half pound, one groat, and one penny:

penny: 5 d. a day is after that rate 7 l. 12 s. 1 d. There is constant use made of the great hundred, therefore I have annexed a Table, which in the first Column contains the price of one pound from 1 farthing to 2 s. and in the second you have the price of the G. weight; the greater Figures are pence, the lesser farthings. If the price exceed the Table, take half, or a quarter of it, and double or redouble the price; and so seeking in the Table for the price of a C. weight, you have the price of a pound or unite answering.

A Table

A Table for buying and selling by the C. weight

[l. p. C. pr. l. p. C pr. l. p. C. pr. l. r C pr.	1
I. s. d. 1. s. d. 1. s. d	. 1
1 0 2 16.1 2 18 1 1 5 14 1 1 8 10	
2 0. 4. 8 2 3. 0. 8 2 5.16.8 2 3.12. 8	3
1 0. 2. 46. 1 2.18.4 1 5.14.4 1 8. 10. 2 2 0. 4. 8 2 3. 0. 8 2 5.16.8 2 3. 12. 8 3 0. 7. 0 3 3. 3. 0 3 5.15.0 3 8.15. 0	
1 0 9. 4 / 3. 5. 4 1 3 6. 1. 4 1 9 8. 17.	4
1 0.11.8 1 3. 7. 8 1 6. 3. 8 1 8. 19.	8
2 0.14.0 2 3.10.0 2 6.6.0 2 9. 2.	0
3 0.16.4 3 3.1 2.4 3 6. 8.4 3 4. 4.	
2 0.18.8 8 3.14.8 14 6.10.8 20 9. 6.	9
1 1.1.0 1 3.17.0 1 6.13.0 1 9. 9.	0
2 1.3.4 2 3.19.4 2 6.15.4 2 9.11.4	
3 1.5.81 3 4. 1.3 3 6.17.8 3 9.13.	0
3 1.8.0 9 4. 4.0 15 7. 0. 0 2 1 9. 10.	0
1 1.10.4 1 4.6.4 1 7.2.4 1 9.18.	
2 1 12 8 2 4. 8. 8 2 7. 4. 8 2 1.0. C.	8
3 11.15.0 3 4.11.0 3 7.7.0 3 10.3.	0
4 1.17.4 10 4.13.4 16 7.9. 4 22 10.3.	4
1 1.108 14.15.8 1 7.11.8 1 10. 7.	8
2 2.2.0 2 4.18 0 2 7.14.0 2 10.10.	0
3 2.4.4 3 5.0 4 3 7.16.4 3 10.12	
2.6.8 11 5.2.8 17 7.18.8 23 10.14	.0
1 2 0 0 1 5 5 0 1 3 1 0 1 10.17	0
12. 3.0	4
THE CONTROL OF THE PARTY OF THE	.8
6 2.16.0 12,5 12.0 18 3.8.0 2410 4	0.

Tuns are brought into hundreds by Multip. by 20.

4. The last Note shall be, that in weighing of Goods, the weights 1 l. 3 l. and 9 l. will weigh all from 1 l. to 13.1 l. 3 l. 9 l. 27 l.

all from I to 40. I l. 3 l. 9. 27 l. 81 l. all

trom 1 to 120, O.c.

At the later end of the Book you have a Table for the summing up of Commodities, the use is plain by Inspection only.

S 2. Rules of Practice for casting up of Interest Money, whether Simple or Compound, rebates and values of Leases.

1. Note is of simple Interest, of use amongst Merchants, you must know readily to cast up the days betwixt any two named times: In one year 365 1 in two years 7301, in three years

	31	1000
	Jan.	00
306	Feb.	31
275	March	59
245	Apr.	90
214	May	120
	June	151
153	July	181
122	Aug.	212
92	Sept.	243
	Octob.	273
31	Nov.	304
00	Dec.	334

10953, and likewife by this Table to find the days; Ex. 1, From the beginning of the year to the 11th. of OET. October has 273 days and 11 makes 284. Ex. 2. from the 12th of March to the 16th of December, substract Mar. 59 - 12 = 71 from Dec. 3, 4-1- 16 350 rests 279 days. Ex. 3. From 10th of June 1673 to the 5th of Febr. 1674. Say

by

for one day of one Pound at 51. per Centum is this Decimal, ,0001369836, at 6 l. per Centum is this and 6 by 36500; and so of any other: Now to find the Interest of any sum of Money for certain days, first find the Interest of one pound for that time, by multiplying,000164384 for 6 per Cent. by the days; and then that product

by the Sum of Money gives your defire; or eafily if you add the Logarithm of 6.21586217 for 6 per Cent. or .13666528 for 5 per Cent. to the Log. of days, and the Log. of the Sum of Money proposed together, it gives you the Log. of the Interest; and to rebate or to know the present worth of any Sum due hereafter, you must find the Interest of 1 l. for that time, adding, Integer to it, and divide the Sum propounded by it, the Quot, is the present worth. Here follows a Table of simple Interest of 1 l. for any days under 10000 at 6 per Cent.

1	lib. s.	d.	S.	d.	d.	par.
I	3:1	3.452			.394	
12		6.904			.789	
3	9:	10.356		11.835	1.183	.118
-	13:	1.808	1:		1.578	
5	16:	5.260	1:	7.726	1.972	-197
16	19:	8.712		11.671	2.367	236
7	1: 3:	0.164	2:		2.761	
18	1: 6:	3.616	2:		3.156	
9	1: 9:	7 068	2:	11.506	3.550	-355

The use of this Table is easie; the first Collumn are days, and if used with the second Column are thousands; if with the third are hundreds; if the fourth are tens, and the fitth are single Unites. Ex. What is the use of 1.1. for 1732 days. An. 5 8d 1 fcr,25 = 1 f. 50 = 1000 2f. 75 = 3 f. and if you turn 700 2 3.616 the Interest of one pound 1.183 30 found as before into deci-.079 mals, and multiply it by the Sum propounded in Decimals, It gives the Interest of that Sum. And for equation of pay-

ments, or giving of time, as at 2 three Months, ar Days, or the like; suppose three, 3 Months, multiply the terms 3 and 3 makes 9, add the later 3 makes 12, the half whereof is the equation for 4 six months, is 15, viz. 4x6 = 24 + 6 = 30 - 1/2 30 is 15. To conclude this Note of simple Interest practise is the double Gol. Rule taught before, it answers all questions whether of the principal, time, or gain.

2. Of Compound Interest, or Interest upon Interest. The Logarithms answer questions of this nature with great ease; and first if the Interest be at 6 per Cent. find the Log. of 106, divide it by 2 for ½ Years, by 4 for Quarters, by 12 for Months, and by 355 for Days, and keep these Log. for Use. You have six Questi-

Log.of 1, 06 0.025306

¹/₂ Year 0.012653

¹/₄ Year 0.006326

Month 0.002109

Week 0.000527

Day 0.000075

ons in Moore's Arith. wrought at large, the following Examp. will make all plain for 1 l. viz. Mr. Oughtred's fix Theorems after 6 per Gent. viz. A, B, C,D,E,F.

The. 1. P. lends to

R. 1 l. for 3 years, what must P. receive at the end of the term? A.

The. 2. P. hath owing from R. 1 l. at the end of three years, and would know the worth in ready money? B.

Yearly, 1,06 — 0.025306 A 1,1010 0.075918 B ,83962 3,924081 Ar.Co.

So that A anfwers the first
Question; that is,
P. must receive
I l. and ,191 of
2 l. that is, 3 s.
and Io d. And
B the

B the second, that is, 16 s. 9 d. ob. A is gottenby multiplying the Log. of 1,06 by 3; and B is the Arithmetical Complement of A.

The. 3. P hath an Annuity of 1 1. per. An. and R forbears payment to the end of three

years, what will it amount to? C.

The. 4. R is to pay 1 l. at the end of three years unto P, and would know what rent is to

be paid yearly for that Debt? D.

First, A. 1 is 1,191 — 1 1A — = ,191= 281033 = ,191, and 1,06--1 = ,06= 778151 1,06-1 = ,06 = C 3,1833 0.502882

After Sub- D, 31413 9.497117 Ar.Com.

Atraction it

leaves the Log. 6 of C 3 l. 3 s. 8 d. and the

Arithm. Complement is D. 6 s. 3 d. ob.

The. 5. P has an Annuity of 1 l. per an. for three-years, and would know the present worth in ready money.

The. 6. P hath I l to bestow of an Annuity for three years, and would know the yearly

Annuity.

The answer to C 3,1833 0.502882 the 5th Theo. is E- A1,191 0.075918 2 l. 13 s. 5d. ob. E 2,6728 0.426964 and the 6th F F,37414 9.573036

for 1 l. the Answers are fitted to all the 6 Questions, and the same is to be perform'd after the like manner, if the payments were half yearly, quarterly, &c. taking the Log. answering as before. And after you have found your Answer for 1 l. by adding its Log. to the Log. of any other Sum, it gives your defire. Ex. if 3521. 10s. were due 3 years hence, and I defire to know what it is worth to pay presently; I add the Log. of 352,5—2.547159 to the Log.

B 9 924081 found as before makes 2. 471240, which is the Log of 295 97, or 295 l. 19 s. 6 d. the Answer.

Rules concerning Free-holds to be bought and fold.

The Annual Rent, divided by the bare Rate of Interest proposed, producerh the Sum of ready Money that Free-hold Estate is worth. Example: 300 l. per. an. after the rate 6 per. Cent. is worth 5000 l. ,06) 300,00 (5000.

And if the Rent be 1/2 yearly or quarterly,

divide by ,0296 and ,014674.

Any fum of Money (1000 l.) lying ready for a Purchase being multiplied by the bare rate of Interest, (,06) produceth the yearly Rent. 1000x,06 = 60,00 or 60 l. per. annum.

The Annual Rent (601.) being divided by a fum propounded (10001.) quotes the bare In-

terest of 1 l. 1000) 60,00 (,06.

Divide Unity (1) by the bare rate (,06) of 1 l. the Quotient gives the number of Years purchased. ,06)1,00(16,6 5)1,00(20 8)1,00(12.

If the Rents be \(\frac{1}{2} \) yearly or quarterly paid,

work as you were formerly directed.

		(50)	-	
	Y.'s per (3.6 per (2.18 per	C. 10 p	er C.
	Y. 5 per (1 0 1 2 1 3 3 2 4 3 5 4 6 5 7 5 6 7 7 10 7 11 8 13 9 15 10 17 11 19 12 23 13 25 14 27 14 29 15	00	0,0	11 0	11 96 2 9 4 1 4 9 2 6 1 7 0 4 11 1 3 4 6
	2 1	1 1	1 1	9 1	9
-	3 2	9 2	8 2	7 2	6
01	4 3	7:3	6 3	4 3	2
Here follows a Table to Purchase by, at 5, 6, 8, and 10, per Cent. Interest.	5 4	0 1 1 1 9 2 7 4 4 9 6 6 6 7 4 7 8 9 2 10 1 1 1 6 12 8 13 2 13	0 1 2 3 4 4 5 5 6 6 7 7 8 9 9 0 10 0 7 11	11 0 1 2 3 3 4 4 5 5 6 6 7 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7 1 7	-91
E.	6 5	1.4	11 4	7 4	4
00	75	95	7 5	2 4	11
9	1 8 6	66	2 5	9: 5	4
Lt S	9 7	16	10 6	3, 5	9
<u>ځين</u>	10,7	97	40	9 0	
60	11 8	A.7	11 7	2 6	0
afe	13 9	58	10 7	11 7	1
中に	1510	5.9	5 8	71 7	1
750	1711	210	6 9	1	
200	1912	111	2 9	75-	
le le	21/12	IOII	910	0 3	111
ap pa	2313	612.	410	4	1
H	2514	112	910	8	9 3
52	2714	-8 13	310	1	6
NO OK	2915	213	711	12	0 9
Ho	3117	1 13	11 11		
e f	4117	715	111	11	9 11
ler	5110	715	9 12	3	9 11
-	6118	1116 416 716	9 12 2 12 5 12 6 12	3 4-	10 0
	7119	416	5 12	3	10 0
	81 19	716	7 12	6	9 11 10 0 10 0 10 0
500000	91/19	9/16		the fee	

The first Column is of Years, the second is the time to Purchase, the first Figure being Years, the second Months. A Rent to endure 7 Years, is worth ready Money after 5 l. per Cent. 5 Years and 9 months; the third Column is at 61. per Cent. the fourth at 8, and the fifth at 10 l. 5 l. per Cent. is at 20 years purchase, 6 l. at 16 years and 8 months, 8 l per Cent. at 12 years and an half, 10 l. per Cent. at 10 years: So that 5 l. and 6 l. per Cent. may be used for Free hold Estates, and the 8 l. and 10 l. for Houses. § 3.

3. Of Plain and Spherical Triangles. Instead of Chords, the Sines and Tangents were invented, and brought to a Decimal Radius; and it might be wilhed; that the Saxagenary Account be left off, and the Centelimal taken.

After the Logarithms, you have a Table of Artificial Sines and Tangents to every degree and minute.

The Sine or Tangent of every degree and Minute, if they be under 45 Deg. are found by looking in the Column on the left fide, the Degrees are in greater tigures, and it above 45 deg. by looking in the Column on the right fide, accounting from the bottom towards the top, Example: The Sine of 13° 30' will be found 9.368185; the Tangent 9.380354; the Sine of 679 20' will be found 9.955000; the Tang. 10.379213: The Complement of any Degree and Minute being the Remainder of the same to 90°, answers in the same line in the two outmost Columns; as to 22° 10' answers 67° 50', and so doth, the Sines and Tangents, for the Sine of 22° 10' being 9.576689, the Sine 9.956653 being its Complement or Cofine of 67° 50' stands next; and so of the Tangents.

Now to find the degree and minute answering to any Log given; suppose the Sine 9.457584; I feek this in the Table, and find it answers 16° 40', and to this Tangent 10.475410, 71° 30', and if you feek for every fecond, you mult take the difference of those two Log. between yours and the lesser; then say, As the first Difference, Is to the other Difference: : So is 60. To the Seconds fought. Ex. The Sine 9 500163, being given, the next less in the Table 9.499963, the difference 200. The Tabular diff 379, then fay, If 379 60, 200, it will give 32, so the correspondenrespondent Degree, Minute, and Second, will be 180 20 321. This being learnt, we come to the Doctrine of Plain Triangles, but first know these Characters; Lan Angle; rt La right Angle; 1. a Side; Hyp. he Hypothenuse; Ba. Base; Ca. Cathetus, & Triangle; Dat. given; S. Sine; T. Tangent; Cof. Coune; Cot. Corangs.

1. Of plain Δs, let every rt angled Δ be noted with three Letters, A, B, C; let A

(rt. 1) be the rt 1, BA the Base, CA the Cathetus or Perpen, and BC the Hypo-

(F. 1) thenuse, and all oblique As with BCD,

(F. 2) let BD be the Base; then observe these

Propositions.

Prop. I. The Sides and Sines of the opposite Angles are proportional, and in any Triangle where two Sides, and one Angle opposite, are given, and it be required to find the Angle opposite to the other side; As l. S. Lopp. :: S. 4 required: Or if two Angles, and the Side opposite, the one be given, to find the l. oppofite to the other: Say, As S. L l. opp. :: S. L. l. required: this reacheth generally to all As, Note, that in a rt $\Delta\Delta$ if one accute Angle be known, the other is known, because it is the Complement to 900, and in an oblique A if two Angles be known, the third is given, because the Complement to 180°.

Prop. II. In rt L As. As one Side to the other :: So is the Rad to the Tang. of

(F. 1.) an Loppolite to the other, BA.CA: Rad. t. LB.

Prop. III. In every plain A. As the fum of the two Sides, is to their Difference: : So is the Tangent of half the sum of the two opposite Angles, to the Tangent of half their Difference; therefore if two Sides and the Angle included be given, the rest will be known.

Prop. IV. As the greater Side, to the Sum of

(53)

the rest :: So is the Diff. of those two remaining Sides, to the Difference of the Segments of the Base; the Perpendicular will fall in the middle of the Remainder.

These four Prop. will resolve all plain as.

Ex. In the A ABC rt Lat A. Let the Hypothenuse B C be given, and LB to find the Side CA. By the

I. Prop.

Having BAthedistance from any place to the foot, 1124 feet or yards, and LB28° 20', to find the height By Prop. II. Fig. 3.

Rad. 900 - 10.000000 BC 1277 - 3.106191 t: 1 B 28°201 - 9.676321 C A 606 - 2.782519 Rad. 900 — 10.000000 BA 1124 - 3.050766 t: 6 B 28°201 - 9.731745 CA 606 feet or yards: - C A 606 -- 2.782512

In the oblique ℓ Δ DBC, Fig. 3. having the ℓ CDB 43° 20', and the ℓ CBA 58°, the ℓ DBC will be 122, and the LDC B 140 404; the first two is are had by observation, the other Complements, by the I. Prop. you may have DC 335, and BC 271, which are the distances from D and 8 to C, though you came no

nearer than D. Likewife in the rt LABCA, supposing C A some height unaproachable, after the Angles at D and B be taken, and the distance B G-271, as before; you may find by the I. Prop. CA 230 feet, yards, Oc. the height, and BA

S. B. 14° 4019. 403455 DB - 110 2. 000000 S. C. 43° 201). 83647.7 1.BC-271 2. 433022 S. DBC--580 9. 928420 t. D C--- 335 2. 524965

the distance 143,7; and by these two last Exam.

all heights and distances, whether accessible or

no, are taken.

2. Of Spherical Triangles, and first of it L As. In these there are five Parts, besides the rt 4, (which is no part) to be considered; in the A ABC, (Fig. 4.) A is the rt 1, the Sides B A and C A are taken simply, which make two parts, the & C and B, and the Side B C by their Complements, which make three parts, five in all: Three of these always fall into the Question, whereof two are given and one demanded; and these three in the Question either fall all together, as B, BA, AC, or BA, AC and C, or AC, C, BC or BC, B and BA, or C. BC and B, in all which five cases BA, AC, C, B and BC, are the Means, and the other two the Extreams, or a funder or disjunct; as BA, BC and C; BC, BA, CA; C, B and BA, wherein BA, BC and C, which are separated from the other two, are called the Intermedials, the other the Oppointes,

A i. As Tang. of one Extreme, to the Sine of the Mean :: So is Rad. to Tang. of the other.

A. 2. As Si. co. of the one opposite, to Sine of the Intermedial :: So Rad. to the Coline of the other.

By these two As and the former observations, any part of rt L A may be gorten by knowing

 two parts: Ex. In the \(\Delta \) BAC, where let B represent the Equincctial Point, and the Angle of the greatest Dec. 23° 30', and BC a part

of the Ecliptick 34° 20, I demand CA the Dec. Here B and BC are given, CA demanded, CA are disjoyned, and B, BC, are the appointes; therefore by the second Ax. As R. Cosy.

Cofy. BC:: Si, co. B. Sine of CA; but you are bid to take the Complements of B and BC, therefore as in the work, R. Si BC:: Si. B. Sine CA; this is plain and sufficient for rt 4.

Of oblique Spherical Triangles, the Parts are fix, three Sides and 3 Angles, whereof three are given, and 1, 2, or 3, may be fought; four of thefe fix are called Ingredients, whereof 3 must be given and one fought: And of these 4, there may be three feveral Divitions; First, they may be opposed one to another, as l. to L, and l. to 4, or contrarily, and then S. L.S. l. :: S. L. S. 1. or S. 1. S. L :: S. 1. S. L. Secondly, they all follow together; or, Thirdly, three together, and one removed. In the two latter, the parts fought may be found at two Operations and no more, by letring fall a Perpend cular, which must always fall from or upon one of the Ingredients, and never from or upon two. For the Calculation of any of these, observe the Rules following.

I. The Perpendicular being let down the two Ingredients left entire annexed and given, must be marked with the Letters, B and BC the &

and Side given.

II. One of these two, either B or BC, must begin the account of the four Ingredients in the Question, and the Perpendicular must always

fall upon BD extended if need be

111. If the Ls at B and D be both acute, then the Perpendicular will fall within the A, and then DA = BL — BA, and LDCA = LBCD — BCA as in the fifth Fig. But if the one of B or D b, obtuse, and the other acute, then will it fall without, as you may perceive in the 5, 6, and 7 Fig. then DA = BA — BD, and L DCA = BCD-1-BCA, as in the fixth Fig. or DA = BA — BD and DCA = BCA — BCD, as in the 7th Fig. C. 4. IV. The

IV. The order being begun as before, either at B or BC, either all four will follow one another; or else three of them, and the fourth removed from the rest.

V. After the Perpendicular be let fall, the Sides BA, AD, or the Ls BCA, or ACD, or ACB, are

found out, as in rt angled Triangles.

After DA and BA, or L BCA, or ACD, be found as before, the Triangles are found and performed by two Cases, and each Case two Problems.

Case I. Where all four Ingredients follow each

other.

Probl. I Leader BC thus, BC, B, BD, D, and either BD, or D fought; As Sine DA. S, BA:: t B. t D.

Probl. 2. Leader B thus, B, BC, BCD, DC, and either BCD, or BC, is fought; fay, Cofi. DCA.

Cofi, BCA :: t BC . t DC.

Case II. Wherethree follow immediately and

one separated.

BD, and either DC or BD are fought; fay, Coli. BA, Coli DA:: Coli. BC. Coli. DC.

Prob. 2. Leader B thus, B, BC, BCD, and D, and either D or BCD are required; 12y, Si.BCA.

Si. DCA :: Cofi B. Cofi D.

Lastly, in the two Cases, First, where three Sides are given, to find an Angle: For Exam. Fig. 8. h, in the $\triangle BCD$, let all the sides be given viz. BC 38, 30 CD 70, and BD 60; and let the Angle C be sought: First, set down the Arith Compl. of the Sines of BC and CD including the L sought. Take the Difference of these Sides, and under that diff. set down the third Side, take their Sum and Difference and set down their Sines; lastly, sum up all the sour Sines, the half Sum will find out an Arch among the Sines, which being doubled, will be the L.

And it 3 4s be given, to find a Side, if instead of the greatest 4 you take its Complement to

180, the Ls will be Sides & Sides Ls, as in the last.

Note I. The measures used for lengths, as you had them in Chap. 2. are either Inches divided into 10 Parts, Feet divided into 100 Parts or 12 Inches, a Gad or Rod divided into 100 Feet, and a Perch or Pole divided into 100 Links, containing 16 Feet and a half, or 18 Feet; these or any of these may be used as occasion requires.

Line or Length whatfoever, you derive not from a strait Line; therefore set up small Pickets betwixt you and the mark that may direct the Line; or if you measure by a four-pole Chain, then the hindermost man look that the Leader go strait, or cover the Mark. It a Line decline; and you would know the Horizontal Line in going down a Precipice at the end of the Gad or Rod held Horizontally, let fall a small Stone or any small Weight that will shew the Point where you must hold Horizontally again.

3. To level a length or Line, or to know what difference of height in rifing or falling betwixe place.

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place to place, which is a very useful Practice for carrying of water, or of underground Adits or Soughs, take those Rules: Let your Instrument be carefully and truly made, whether it be a Water Level, or (which in my opinion is the best) a Brass T, the Sights to be two Prospect Glasses; which may be had of the Mathematical-Instrument makers about London, with Directions about it: This kind of Instrument will suffer a distance to a quarter of a Mile, or more if need be; and there must be two Mark-boards placed on Pike-staves, that your Companions may lift

up or down as you shall direct them.

Setthe Level as near as you may in the middle betwixt the two Marks, which your Companions hold upright in their hands with the flipping Marks, and first turning to one, cause him to hold or fet his Sight even to the level Sights, and fo the other; the difference betwixt those Sights in Inches and tenth Parrs gives the ascent or descent; this is for one simple Station: But if it require many Stations with ascents and descents, then in a Note book set down your back Stations in one Column, and your fore Stations in another, sum up both the Columns, and take the difference of them; if they be equal, the two places are level; if your fore Stations exceed, then the difference is lower; if otherwise, higher; a little practice will inform you sufficiently: In carrying a Stream or River, as the New Water from a little above Ware to London, or elsewhere, you must allow a Foot, or a Foot and two Inches, for a Mile in descent, or more, if your fall require it; and this because of the distance of the Tangent from the Surface of the Globe of the Earth in every Mile; and tho' in a Mile it will be found but 6 Inches, yet it is better to hold to the furer fide. Now for Common Sewers or Passages to carry away the Water and Dirt of Streets in Towns;

Towns; for every 10 Feet you ought to allow 2 or 3 Inches as your fall may be, which in every 100 feet will be 1 foot 8 inches, or 2 foot 6 inches.

3. For the length of unapproachable Lines, as those of places belieged, or of heights or distances, they are found by resolving a Triangle that hath one side, and all the Angles given, as in Prop. 4, of Plain Triangles is set down, as you may see in Fig. 3. Care must be had, that the Angle BCD be not too acute, viz. never less than 2 degrees, and therefore it will be best if the ground will give leave, to go from B, not in the right Line ABD; but to go off from B towards F at right Angles.

For a diversion, I will give the heights of tome Pyramids, Steeples, Obelisks, and Pillars, in the measure of English Feet; as when S. Paul's Steeple had its Spire on, the Stone work was 260 feet high, and the Spire as much, which was 520 feet in all, and will be found as high as any Steeple in Christendom, only that at Gremona in Italy being 528 feet excepted, the Ball on St. Peter's in Rome is 466 Feet; the Steeple at Roan in Normandy is 399 feet; at Strasbourg in Germany 431 feet; at Landhoven in Bavaria 451 feet; at Modena in Italy 279 feet; the Tower Afinel in Bononia in Italy 316 feet; Lanthorn at Genoua 324 feet; the highest of the Pyramids 1350 feet, the lower Pyramids 883; Boston Steeple in England, a Stone Steeple without Spire, is 264 feet; the height of the Obelisk in Rame, (removed by Font and to St. Peter's) was of one Stone 78 feet and an half high, 9 feet 2 inches square at the greater end, and 6 feet 2 inches at the top, it stands now upon a Pedestal of 12 feet and an half high, and the height of the brazen gilded Crois is 19 feet and a half, so now the whole height is 110 feet and an half in all,

4. Before we come to the measuring Plains, it will be requisite to shew, 1. To raise a Perpen-

dicular.

dicular from a Line, Fig. 9. Suppose on a, take ab = ac, open your compasses to above half b c, and cross two arches at d, ad is a Perpendicular. 2. To do it on the end of a Line, strike an Arch db; fet the same wideness from d to b, and strike another Arch at c, which with a Ruler laid upon d and b cross at othen is caa Perpendicular. See Fig. 10. 3. To let fall a Perpendicular from a upon the Line b c, Fig. 11. fetting one foot in a. cross the Line in b and c, from b and c, opening the Compasses, make a crossat e, lay aRuler by a and e,& draw ad, which is a Perpendicular to bc. Lastly, because hereafter there is great use made of a Square, I strall shew you, how any Joyner or skilful Carpenter may make one that will very well serve your turn for surveying or plotting any Grounds, Yards, or Courts, and for measuring the same. Get a dryed piece of Box or Pear-tree that will bear 3 inches or 3 inches and an half Diameter, and turn it flat on the top round, with a neck to fit for the head of a Staff; find the Center, and draw 2 or 3 Concentrical Circles, as you see, Fig. 12. and Circles on the edge, divide the Circles into four Parts, as you see in the Figure adbc, then takea Whipfaw very thin, and faw by the marks the two Lines ab and c dat the right Angles pretty deep; this will make a good Instrument for setting off Perpendiculars when you have occasion. Suppose (Fig. 13.) a, b, c, d, e, f, g, b, were a Field, I come to a, and letting a Becon there and at the corners, I measure a c, and as I go, find at what length by the square the Perpendiculars 1 h and and kb will be, I measure all those Perpendiculars, and fet them down in my Book, I measure co and the Perpendiculars mp and no, and so all the rest as you see in the Figure; and to lay the observations down, I do no more but draw aLine ac by the scale, and prick down the points ik and

x, and raising Perpendiculars I fet off 1 h, k b,

and

and k d, which give me a b c, d and b, I draw c b, and upon it prick down n, y, and m, and set off n o and m p, and so I work with the rest of the Figure, and I deal so with the rest of the Closes

if there be more, and add all together.

Lastly, to find the length .017453292 of a Circular Line, either .034906585 2 whole or part, from Degrees .052359877 and Decimal Parts, may be .069813170 done by this Table; the first .087266463 5 Column are De-.004719755 30.52359 grees or Decimal .022173047 Parts, second Ra-2.03491 .139626340 1.00174 dius is Unity: As .157079633 6.00104 for Ex. 32° and

Note II. Planometry, or the measuring the superficies or planes of things, is done with the squares of such measures, as a square foot, square inch, square yard, square perch, that is by squares, whose Sides are an inch, a foot, a yard a perch; so that the Area of any superficies is said to be found, when I know how many such square inches, feet, yards, &c. it containeth.

1. The Area's of squares and oblongs are known, if you multiply one side by another.

2. The Area of any plain Triangle is gotten by multiplying the Base by the Perpendicular, and taking half the Sum, or the Base by half the Perpendicular, or the Perpendicular by half the Base.

Or without the Perpendicular at all, add up all the fides and take half the fum, from this half fum take every fide, which call the three Differences, multiply these three Differences and the half Sum continually together, the square Root of the last Product shall be the Area of the Triangle.

3. To measure any regular Figure that has equal sides, multiply half the sum of the sides by the Perpendicular from the Centre to one of these sides;

To

To find the Perpendicular, conceive a Triangle, whereof one Side is the Side given, the Angle opposite is the Latthe Centre, the other Angles half of its Complement, to find the Perpendicular.

This Table will present-L. ly give you the Quadratrix .6581 1.520 under Q or the Side under 1,000 1.002 L. for any of the ten Regu-.7624 5 1.312 lar Figures, whose Side is 1. .620 6 1.612 Ex. Suppose the Side of a 1.904 .525 Pentagon be 7051, what 2.196 .455 is the Superficies ? Say, .. 9 2.487 .402 As 1. 1.312 :: . 70.51; 10 2.769 3.361 Aufw. 92.52 the Quadratrix, and 92.52.x92.52 = 8558. Having the Superficies, take the fq. Root of it, and fay, As 1. . 7624 :: So Q. to Side.

4. The Area of any four-fided Figure, two fides whereof are parallel, is gotten, it you multiply the Perpendicular from the one parallel fide upon the other by the half sum of those parallel fides.

Triangles, as you may fee in Fig. 13 And if any fide be crooked, as you fee h g in that Fig. draw a Line that shall leave as much out as it takes in; or if it be irregular towards around, as in Fig. 14. form a Triangle, as ch d that shall equal it.

6. The dimention of Circles, and other round Figures, are gathered from their Diameters or Circumferences: Let D. fignific the Diameter; P. the Periphery; Dq, Pq, the Square of the D. or P; l. the Side, as before; ①. the Circle;

R. Radius, or half of the D. Then

As 7. 22, or 113. 155, or 1. 3. 1415926:: So is any D. to P; and so Dq, to the Superficies of a Sphere; and so is Dx the Axis of a Cylinder, to its Superficies; and so is half D. into the Side, to the Superficies of a Cone; and so is the square of the Chord of half the Segment of a Sphere, to the superficies of that Segment.

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As 22. 7, or 355: 113, or 1.0:: 3.8310:: So-P.D. so Superficies, to the Dq. of the Sphere.

As 7x4. 22, or 14. 11, or as 1 to .785399: So Dq. Area; and so is the Sq. of the Dx 1 solidCy-linder; So Dq x 3 Ax to the solid of the Cone.

As 22. 7x4, or 11. 14, or as 355. 452, or 1.1.273239:: So is the Area of the , to the Dq.

As 22 x4. 7, or as 88. 7, or as 1420. 113, or 1 to 079577:: So Pq. Area of a @, and fo Pqxl.

to the folid of a Cylinder.

As 1 to 707 to 7:: D. to the Root of a square to be inscribed in a ①. As 1. 886227:: D. to the Root of a sq equal to the ②, which is the squaring of a ②.

As 1 to .80604: D. to the Root of a Cube:

equal to the Sphere.

As I to 1.772454: D. to the Root of a Sq.

equal to the superficies of a Sphere.

As 1 to .523599: Cube of D. to the Sphere.
As 1 to 1.909859: Sphere to Cube of the D.
As 1 to .282095:: To Root of a square to the Area .

As 7 . 22x4, or 1 . 12.56371 :: O. Pq.

As 1. .225072:: So is P. to the Root of the inscribed sq. in the ①.

As 1 to .256556: P. to the Root Cube of a

Solid _ the Sphere.

As 1 to .564189 : P. Root sq. = superficiesof the Sphere.

As I to 016887 :: Cube P. to the Sphere.

As 1.59.217626: Sphere, to Cube of the P. As 7x6.22, or 1 to .5236: D. cubed, to the solid of a Sphere.

As 22. 7x6, or I to 1.90989 :: Solidity to

D. cubed of a Sphere.

A Cone, a Sphere, and a Cylinder, that have the fame height and Diameter, it the greatest Circle be equal, are as 1,2,3, therefore a Cone is 1 third, and a Sphere 2 thirds of a Cylinder of the same height

Height and D. therefore, As 1 to 25.1327 :: So

D. cubed, to the Cylinder.

7 The Plactice followeth. I. In surveying and measuring of Land, measure with a Perch or Pole = 16 feet and an half, divided into 100 parts; then by the aforesaid Rules, how many square Perches there are, that is the Area of that Close or Ground, which divided by 160 square Perches (for so many are in an Acre = 40 x 4) it gives you Acres. the Remainder, accounting 40 Perches for a Rood, are Roods and Perches.

This little Table turns Perches into Acres, Roods, and Perches, upon fight; the Numbers C. X. under ac.areAcres, [ac. r. p. ac. r. p | r. p. under r. are Roods, M. 200 10 and under p. are 16 1 00 2 oo 20 Perches: The first O I 3 2 12 2 200 30 Column are either 3 18 3 0 1 of o formany Thousands 4 25 0 0 2 2 5 31 1 0 3 0 6 37 2 0 3 3 7 4 3 3 0 4 1 of 20 Hundreds under G.
201 30 or so many Tens o under X. 0 2 05 0 850 20.2 956

As for Example: 7854 Perches are given, which I set down as you see, and take the num-

ber of Acres, Roods, and
Perches, answering each Figure, and it makes in all
goo — 5 0 0 49 Acres and 14 Perches.
50 — 0 1 10 Sometimes as in small Back.
4 — 0 0 4 fides, Courts, or other small
places, the measure may be

Table turns any number of Feet into Acres
Roods and Perches, at the first view, to be operated with Feet, (as the last Ex.) Roods, Perches;
the,

CM. XM. M. C.

a.r. p. f. a.r. p. f. p. f. p. f.

1 2 1 7 86 0 0 36 189 3 183 0 100

2 4 2 14 171 0 1 33 126 7 94 0 200

3 6 3 21 257 0 2 30 53 11 05 1 28

4 9 0 29 70 0 3 25 252 14 189 1 128

5 11 1 36 156 0 0 23 179 18 99 1 228

6 13 3 3 240 0 1 20 100 22 112 56

7 16 0 11 54 1 2 17 33 25 194 2 156

8 18 1 18 145 1 3 13 232 29 106 2 256

9 20 2 25 225 2 0 10 159 33 173 84

the numbers under feet are odd feet; the second Column is one Hundred Thousands, the third Tens of Thousands, the fourth Thousands, and

the last Hundreds.

One Superficies is to another as the squares of their like Sides; therefore, As the square of 8.5, to sq. of 16.5; or, As the sq of 12 (= 144) to the sq. of 11 (= 121): So are the Content in Statute Acres, to the Content in Woodland And, As 144 to 196: So Forest Acres, to Woodland Acres. And, As 121, to 196: So Forest Acres, to Statute Acres.

II. In measuring of Pavings, Plaisterings, Wainscotings, and Paintings, you use the Yard square; or if you measure by feet and tenth parts, then every 9 feet sq. makes a yard, all of them require the whole superficies, therefore you must measure wherever the plane or brush goes. The Paviers must lay good Foundations, and ram well; the Plaisterers work with good Materials and Size; the Wainscoting well wrought; and the Painters to lay a good Ground, and work with Oyl and White Lead.

III. Carpenters work, as Flooring, Partitioning, Roofing, and so Tiling, Slating, nay, lately in London, the Ground-plot of whole Buildings, are measured by the square of 10 feet = 100 squeet; so that if you measured by a 10 scot Rod, and

every foot divided into 10 parts, all will come into feet, and cutting off the two last figures, the Remain will be Flores or sq of 10 = 100.

Brickwork is measured by the Perch of 16 feet and an half, the best way is to Measure by the 10 foot Rod last spoken of, and casting up the Area by multiplying one side by another, it will produce sq. feet, which by this Table is presently brought into square Perches. The first Column are Feet, or Thousands or Hundreds, or Ten Feet, as the either so many X.M. second, third, fourth, and fifth Columns answer.

	XM.	. M.	C	X.
1 1	P. 9. f.	p. g. f.	p. q. j.	9. J.
1	36 2 63	3 2 41	1 31	10
	73 1 58	7 1 26	2 62	20
	110053	1105	1 0 26	30
	146 3 55	14 2 52	1 1 57	40
15	183 2 40	18 1 31	1 3 20	50
6	183 2 40 220 I 35	22 0 10	2 0 52	60
17	257 0 43	25 2 57	2 2 14	1 2
8	293 3 41	29 1 36	2 3 47	1 12
19	330 2 25	1 33 0 15	3 1 10	1 22

Exam. In 36542 square feet, what perches, quaters, and feet? Ans. 134 perches, o q. 57 feet.

This supposeth that the 30000 110 0 53 brickwork is brick and 6000 22 0 10 half thick, but if the wall 500 1 3 20 be more or less thick, ac40 40 count it by half bricks, as 2 3 for brick and half, 4 for 2 bricks, 6 for 3 bricks & c. and say, As 3, to any other

wall in half bricks:: So are the perches found by measure, to the perches to that other wall in half bricks. Note, That 272 one quarter of square feet is a perch, 68 one quarter, 136 half, and 204 three quarters. Tapestry or 3 quarters of a yard, in a Stick = 27 inches inches. This Table gives Sticks, Quarters, and Inches, answering to any number of Square Inches measured by Inches.

		2	M	Mel	1	M			C.
1	1	1 5	9.	inch.	5.	g.	mc.	g.	inc.
	I	1 13		159					100
g	2	27	1	135	2	2	177	1	18
8	3	41	0	112	4	0	84	I	118
1	4.	1	3	89	5	1	172	2	35!
		63		65.	6	3	79	2	136
1	6	82	I	41	8	0	168	3	54
ı		96	0	19	9	2	74	3	154
1	8	10)	2						72
1	9			153	12	1	70	4	172

Board, Glass, &c. are measured by the foot, divided into 10 or 10 parts, or by inches and 10 parts, and then this Table will turn the

			M.						
1		1f.	9.	inc.	f.	9.	inc.	g.	inc.,
1	I	5	3	28	0	2	28		10
1	2	13	3	20	1	I	20		20
1	3	20		12	2	0	12		
ı	4	27.	3	04.	2		0+	I	4
1		34		32	3	1	32	1	14
-	6	41	2	24	4	0	24	I	24
Î				16	_		16		34
-	8	55:		08			08	2	8
1	9	62	2	00	6	1	00	2	18.

Inches Square into Feet, Quarters, and Inches, 9842 sq mches = 68 f.1 q 14 in. f q. inc.

In ei her Board or Glais, if the breadth be given, to find how much of that breadth will make a foot in length. Divide 1 by the breadth in feet and 100 parts, the Quotient gives part of a foot; if by inches, divide 144 (12 x 12) by inches and parts.

If you measure by inches and 8 parts in the Figure adjoyning, you may turn them in feet and 10 parts by inspection, the two middle lines being inches and 8 parts, above, you have feet

and to parts, below Timber measure.

Note III. Stereometry, or measuring of Bodies, has two Multiplications or three Dimenfions, and is valued by the Cube of some famous measure; as an inch Cube, a foot, a yard, or perch Cube.

A perfect Cube is known, by multiplying the fide into it felf, and that product by the fine

again.

A Parellepipidon, or an oblong Cube, a Prifma, or a Cylinder or Pillar; first, get the superficies at the end, and multiply that by the height or perpendicular, from the top of the body to the plane below.

A Pyramid or Cone is measured by the superficies of the Base, multiplied into one third of

the height.

Dod. 2 003 .507

The five Regular Bodies, viz. Tetrahedrum, Cube, Octohedrum, Dodecahedrum, and Icosahedrum, are measured as in the Table.

As I . fide of the Dod :: So .778 . Cube. Cube. Side. As I . Cubat. of the Dod :: Tet. 1 .490 2.040 So 1.285 . Side.

Oct. .778 1.285 Cube 1.000 1.000

The Cubatrix multiplied Icol. 1.318 .771 into it felf twice, gives the Solid, and is the Cube Root of that folid body.

To measure the Fruitums or parts of Pyramids the Pyramid or Cone, saying, As differ. of the breadth at the two ends, To the length between them: So the breadth of the greater end, To the whole length of the Pyramid or Cone.

This gives you the length of the top-part; find as before the solidity of the top-part, and the whole severally, substract the solidity of the top from the whole, leaves the solid. of the Frustum. Font and found the Obelisk, by him removed to St Petens, to weigh 529 Tuns, 11 Hundred, 2 Quarters, and 3 pound, Averdupois.

Theusual way for this tapering Timber, is to measure the superficies in the midit, and multiply it by the length, which though is be a false Rule, yet if it be done at many lengths, suppose at

every 5 or 6 feet, it will be very near.

All bodies one to another are in proportion as

the Cubes of their like Sides

The measuring of all bodies that have curved

Inperficies, or plain-curved, follows.

Spheres, Cylinders, and Cones, you have their dimensions and measures amongst the dimensions of Circles and round Figures in Plainimetry.

To measure the Truncus or part of a Cylinder that leans, take the superficies of the Circle, and adding the longer and shorter sides of the Trun-

cus, take half, let that be the height.

The sector of a Sphere is measured, by multiplying its superficies spherical by one third of

the height.

The segment of a Sphere, measure it as if a Sector, and substract from the Sector the solidity of a Cone, whose Apex is in the Centre, and Base the Area of the Segment.

The folidity of a Spheroid is gotten, by multiplying the greatest Circle into two thirds of the

Axis about which the Spheroid is made.

The

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The folidity of the Truck of a Spheriod cut off with two Circles at right Angles with the Base, such as our Wine Cask are, is gotten, by adding two thirds of the Area of the Circle at the bung or middle, and one third of the Area of the Circle at the Circle at the head together, and multiplying the sum by the length.

The folidity of an obtuseParabolical Conoid is gotten by multiplying of the Area of the circular Base in half the Axis, but of an Acute one into eight fifteens of the height.

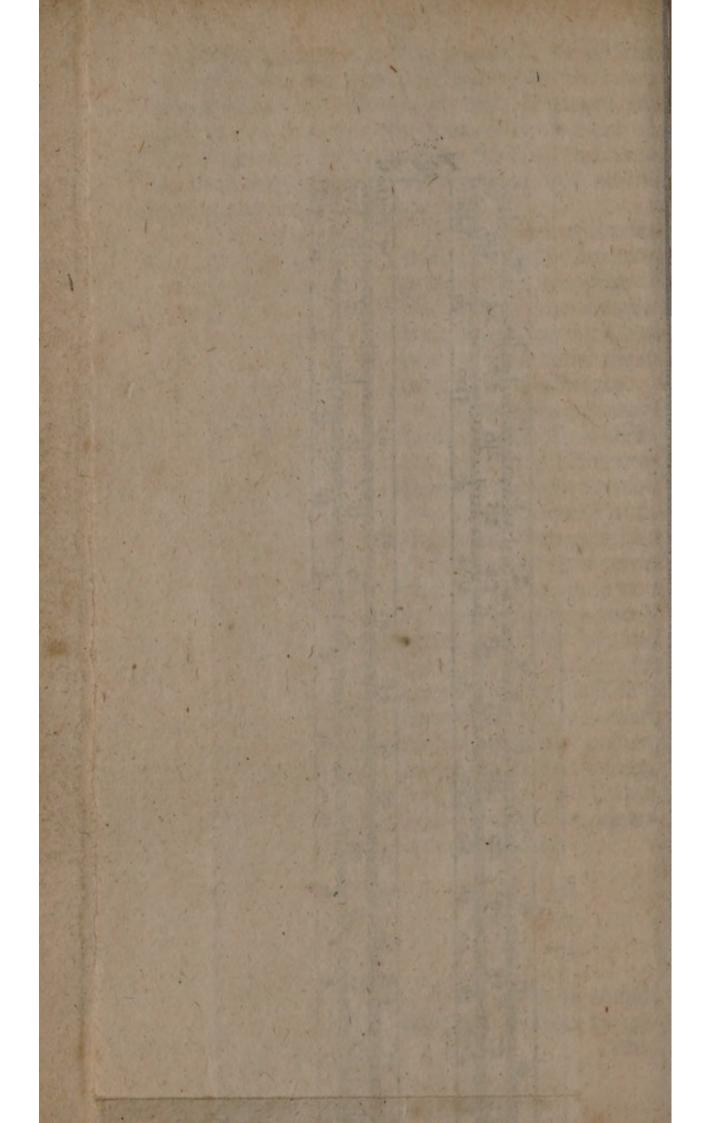
2. The practice of meafuringSolids follows; first, for measuring Timber or Stone by the foor divided into 10 or 100 parts, multiply as before taught, the Answer will be in feet and decimal parts; and if you measure by inches and 8 parts, you may put the measure into feet and de. cimal parts by the Table annexed.But if you must measureby inch measure, cast all up in solid inches, and then by this Table find the folid feet, quarters and inches.

> 324 | 3 qu. 216 | 2 qu. 108 | 1 qu.

If any piece of round or square Timber be given,

IO õ

-1



ven, and it be defired what length of it will make a foot, divide 1728 by the inches square at the end, it answers the Question.

XM. M. But if you have f. q. in. If. q. in. q. in. the superfic. Con-5 3 640 2 1360 100 11 2 128 1 0 272 0 200 tent at the end of the Timber or 3 17 1 1921 2 4080 300 Stone, and defire 23 0 256 2 1 1120 450 to know the fo- 5 28 3 320,2 3 24811 058 lidity of one foot, 34 2 3843 1 3841 168 the Table fol- 7 140 2 16 4 0 88 I 268 lowing will give 146 1 80 4 2 224 1 368 9 52 0 14415 0 360 2 036 it you quickly.

Exam. A piece of Timber at the end is 836 square Inches, what Timber in one foot in length. An. 5 foot 3 quarters in every 12 inches.

800 - 5.555 30 - .208 6 - .041 5.804

,		
12	In	Feet & Pts:1
xcel-	1	:00694444
E	-2	.01388888
100	3	.02083333
25.0	4	.02777778
le not	5	.03472222
ab	6	.04166666
12-	7	.04861111
31.5	8	.05555555
17	0	06150010

In the last figure upon the edge you have a Line called Timber Measure, by which, and the length of any square Timber, you may find the content; thus in stead of the side of your Timber in inch measure and parts, take that of this Line, and multiply that by the length gives the measure.

The General Rule for measuring of Timber that is not square at the ends, is to add both the sides, and take half for the side of the true square but this is Erroneous, and so much the more as the

the sides are more unequal, therefore the Area of the end is to be taken. The other Error is in meafuring round Timber by girding it, and taking one quarter for the side of the Square equal, but let it be what it will, you must take such measures as the Country useth.

Earth-work, as Cellars, Vaults, &c. are meafured by the Yard-solid, viz. 27 solid feet, and so much ought to be a Cart load, and will be contained well; the Carts ought to be 2 feet 8 inches broad at the Axle-tree within, 2 feet high, and

5 long.

All Banks that are made to hold out the Sea or Rivers, and all Ramperts, Perapets and Motes, and New Rivers, are wrought by the Flore, confifting of 18 feet square and one foot deep, which is 324 solid feet, which are 12 Cart-loads, the so-

XM.					1	Л.		C.			
1	251	Fl.	gu.	fe.	Fl.	qu.	fe.	Fl	qu.	fe.	-
- Street	1		3	37	3	0	28	0	I	19	
-	2	6t	2	74	6	0	56	0	2	38	Ð
-	3	92	2	30	9	1	03	0	3	57	l
-	4	123	I	67	12	I	31	I	0	76	ł
	5	154	I	23	15	. 1	59	I	-2	14	ŧ
	6	1-85	0	60	18	2	06	I	3	33	ı
	7	216	0	16	21	2	34	2	0	52	-
- AM	8	246	3	53	24	2	62	2	I	71	1
1	9	277	3	09	27	3_	09	2	3	09 1	

Fl. qu. fe. lidity being cast up In 7000—21 2 34 solid seet, this Table shews 800—2 1 17 the Floors uarters, and 57—0 0 57 Feet; 7857 solid seet will make 24 Floors, as you may see in this Example.

For measuring Ships, multiply the length of the Keel, the breadth of the Mid ship Beam, and the depth of the Hold, together, divide by 100, it gives you the Turns, or instead of the depth it is usual to take half the breadth instead thereof: But for Merchants that allow nothing for Guns, Masts, Oc divide by 95. This may give a guess at the Tunnage, but there is a great deal more required to give the true measure of a Ship, or the burthen she will bear in falt water, for in

fresh water the Ship will fink more.

To double a Cube, or to give the Cube Root of a Cube that shall be double to another given, double the Cubick Inches and parts of the Cube given, extract the Cube Root; and thus by knowing the measures of the Ship of one burthen, to make another Ship of the same mould which shall be double, treble, &c. or any proportion more or less, multiply the measure of the length breadth, and depth in solid feet, then double, treble, &c.the feet, and extract the Cube Root.

The next thing is concerning the folidity and proportion in Weight, several Metals, Minerals and Water, have one to another.

Note IV. Concerning Metals, and of the ma-

nifold uses of the Table, page 17.

1. If you have the magnitude of any body in folid inches, and defire to know the weight of it in Troy ounces: As 1 is to the number of Ounces and Decimal Parts answering the Metal, Stone, &c. in the Table A :: So is the Cubick Inches

given, to the Ounces in weight required.

2. It you have two several Bodies named in the Table, both of the same magnitude or capacity, together with the weight of one, to find the weight of the other: As the number in the Column A answering the first, to the number of the second: : So the weight of the first, to the weight of the second.

3. The uses of the Column B are likewise two, two; 1. To know the magnitude in Inches of any Body by the weight in Ounces : As 1, to the inches and parts in the Column of the Metal, Oc. proposed :: So the weight given, to the inches in magnitude fought.

4 Two several Metals, Stones, &c. both of one weight, and the bigness of one in inches; fay, As the number in Column B standing against the first, is to the number against the second :: So is the magnitude of the first, to

the magnitude of the second in inches.

5. The uses of the Column C shews the weight that every inch of the several Bodies will weigh in water. From Archimedes we may say, That all Bodies let into water, are either heavier, equal, or lighter, than so much water equal the magnitude; if heavier, then the body will fink; if equal, then the bodies utmost surface will swim even with the top of the water; if lighter then to much of the body will fink into the water, fo as the quantity of water which might be equal in bulk to so much body as shall sink, shall weigh equal to the weight of the whole body proposed. Again, a body heavier than water, is lighter in water when weighed, by the weight or so much bulk of water equal to that body: Hence it is easie to discern the weights of several bodies in and out of water by the Columns A and C, A is the weights in Air, C in water, where it is plainly feen, that Gold being scarce, the half quantity of Silver or Brass doth scarce lose half so much of its weight as Silver or Brass will; and from this consideration Archimedes judged of King Aiero's Crown. By the Column C, As I is to the number answering the body: So is the folid inches of any body given, to the weight in water.

Now it will be convenient to give you these Tables for converting folid inches into weights The

of water Averdupois.

(75) (1.) the first (2.) 1 0.579522 | 1 1.72555 2 1.159044 c 2 3.45112 ac 3 1.738566 ad 3 5.17668 c 4 2.313088 4 6.90224 a turns folid | 1 |0.579522, inches water into ounces A. 5 2.897611 8. 5 862780 8 6 3.477133 0 6 10.353.67 verdupois. The fecond 7 4056655 3 7 12.07892 turns oun-9 5.215699: | 9 15.53004 ces Averd. of water into folid Inc.

Example. In an Ale-Gallon = 282 folid inch-

es, how many ounces Averdupois?

Answ. 16; ounces. 426 = By the (1.)

16 l 3 ounces 426.

So in 500 ounces of water, there is 862.78 folid
inches by the (2)

200-115.904406
2-- 46.361776
2-- 1.159044

And in a foot folid, there 163. .426 will be answering 1728 solid inches, 62 h 9. oun-

ces 414.

The nearest proportion in Troy weight, that 36 solid inches will hold 19 ounces Troy of water, and one pound Troy of water will fill 22.7368 inches, and one pound Averdupois 27.609. A foot square of water is equal to 76

pound Troy.

Hence is found a very good way for mediaring any irregular body, that by no Mecanical Art otherwise can be done. Fill any Vesselbrian full of water, and then dipping in your body, receive carefully all the water that runs over, and weigh it, and by the last two Tables turn that weight into solid inches. Otherwise, if your Vessel be regular that holds the water, observe the rising of the water, and find the solid feet or inches answering.

Hence it is, that expert Builders of Ships have great confideration of all the premises in this D 2. Section,

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Section, for by the weight of the Ship, and all Appurtenances, they judge to what depth she will sink; and herein the ingenious Sir Anthony Dean, one of His Majesty's Commissioners of the Navy, has exercised abundance of Skill, though for all the Art one can have, long experience and good judgment will be required, for as I had it from the said Sir Anthony Dean, that the proportion betwixt dryed Oak and fresh Feld, is as 14 to 17, So that considering the strange forms of the Bodies of Ships, and many such and more accidents, as that before of Oak wet and dry, it is a difficulty insuparable, to give to an inch the depth a Ship will draw when rigg'd and fitted out.

Lattly, if it be proposed to make a piece of Iron swim in pure water, you must make it so hollow, that it may be capable to hold as much water that will be equal in weight to the Iron and

fomething more.

Note V. Of Gauging of Vessels. The Gallon, which is the ground for this Work, take as it is now allowed and used; Gallon for dry measure is 272 solid inches and a quarter; for Wine 231; for Beer and Ale 282.

X M. M.	C. X.
us 1 g. p. in.g. p. in.g	3 13
E 2 86 4 13 8 5 7 26 1	2 1111
I. 5 216 3 17 2 15 1	I 9 1 21
6 259 5 26 25 7 23 2 2 7 203 0 6 30 2 11 3	4 23 2 2
8 346 2 16 34 5 3 9 389 4 25 38 7 20	3 3 19 2 22 3 7 5 3 3

							31.	ALC:	TO SO WA	
-	1813	XM	107		M.			C.	X.	
101	g.	p.	271	g.	p.	in.	g.	p.	in.p. in.	
1 2 1	35	3	24	3			0	2	290 10	
7 2	70	7	13	7	0	26		5	230 20	ì
23	106	3	- 2	10	5	3		0	180 30	1
77 3 4	141	6	26	14	-1	16		3	141 4	ì
II. 25 5	177	2	15	17	5	29	I	6 1 3	51.14	ı
m 6	212	6	- 4	2.1	2	7	2	I	0 1 24	ı
27	248	I	28	24	6	29	2		301-34	8
13.8	2.83	5	17	28	2	33		6	24 2 8	ı
123	35 70 106 141 177 212 248 283 310	1	6	31	7	11	13	1	182 18	
			6.5889		-					ì
No.	1.0	-	37-3	1 2	-		10	2	2210 10	
Tree land	36	6	4	3	5 2		00		32 0 10	
Meafure.	73	4		7	0	8	0	50	280 30	1
Me	4110	3 0		14	5	22		3	26 1 6	1

So that by these three Tables, if you cast up the Content of any Measure or Cask into solid Inches; you may easily find the Gallons under g. Pints under p. and Inches under in. either for Wine by the first, Beer and Ale by the second, and dry Measure by the third. One Example for all:

5 183 6 20 18 3 2 1 6 24 1 16. 6 220 4 2422 0 16 2 1 22 1 26. 7 257 2 2825 5 30 2 4 20 2 2

5 183 6 20 18 3 21 6 24 1 16

In Wine, suppose 9845 g. p. in. Inches, it will make 42 9000 — 38 7 20 Gallons, 4 Pints, and 26 800 — 3 3 19 Inches. 45 — 0 1 15

Thus for all Bushels, Pecks, and all other Meafures in Cylinders, get the Area of the Circle in Inches, and multiply it by the length, it gives the folid Inches. For the Area, fay, As 1.0.78539 :: So Dq. Area. Or easily by the Logarithm, Add the Log. of the Diameter doubled, to this Log. 5.895085, it gives you the Area defired: But in measuring the Spheroid or Hogsheads, and other Vessels so figured (as you were taught before) you must take two Thirds of the Area of the Circle at the Bung.

Viz. As 1 . 0.5236: So Dq to two Thirds of the Area.

And, As i . 0.2618: So Dq. to one Third of the Area.

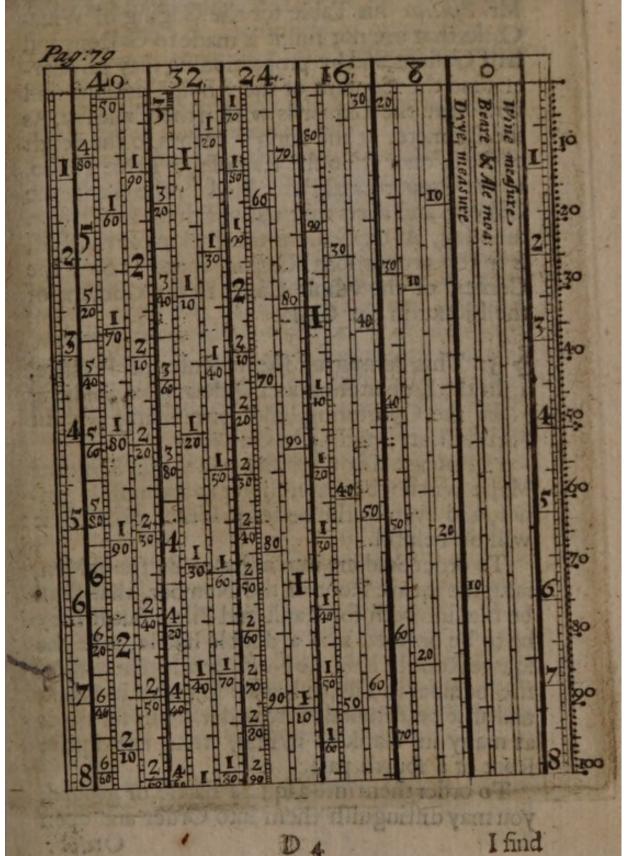
The Logarithm for two Thirds is 3.7189999 for one Third 3.417969, to be used as before.

If you will not measure by Inches, but by a Gallon Rod, you must take the Cube Roots of 272,25,0f 231 and 282, which are 6.481,6:134, and 6,557, and making Scales of Gallons, let these Measures by Compasses taken from a Diagonal Scale of an Inch, upon your Ruler exactly, and divide the same into 100 Parts, so is your Rod fitted to measure by Gallons and 100 Parts. Ex. A Vessel at the Head by the Rod 3 Gallons, whose square is 9, at the Burg 5, 5, whose Square is 30.25, fay As 1 . 9: 2618 . 2.336 = one third of the Area; and, As 1 . 30.25 :: .5236 . 15.839, two thirds of the Area at the Bung; and 2.355 4 15, 839 = 18.145: Now 18.195 x 6.8 the length, produceth 123.73, that is, 123 Gallons, and almost 6 Pints.

Here is a Printed Figure has all the 3 Lines, Wine Measure, Beer and Ale Measure, and Dry Measure; the first two are one third of the Area's, the last for Cylinders is the whole Area; on either edge is a Line of 8 Inches, every Inchanton o Parts, the Scale is broken into 5 Parts, which make 40 Inches; by an Example it will be plain.

A Vel-

A Vessel of Wine, at the head 18 inches, at the bung 32 inches, length 30 inches, I seeka 8, I find it in the second Row 3642, and 37 in Wine Measure; for a third, against 32



I find 1.16, which doubled gives 232; now 374 2.32 = 2.69 x 40 = 107.60, which is 107 Gallons and an half.

For Dry Measure take the whole Area, be-

cause of Cylinders.

At the later end of the Book I have inferted Mr. Philips his Table for the Gaging of Wine-Casks that are not full, it is made to Gallons and half Gallons, and by proportioning may go nearer. Find the Content of the whole Cask, and find how deep the Liquor is within the Cask, fay, As the Diameter at the bung in inches, to the depth of the L quor: So the Rad of the Table 10000, to the Proportional Part. Find in the Table the Gallons and Parts that answer that Part Proportion for the fay, As 63 Gallons the Gallons of the Rod, is to the proportional Gallon found: So is the Content of the whole Cask, to the Content of the Liquor in the Cask.

5. This Parapgrah shews Rules of Practice,
 In the Embatteling and Ordering of Soldiers;
 In the Quartering and Encamping;
 In Fortification; and, 4 In Gunnery

Major will not be material, yet to a skilful Sergeant mer, and even to the better practifed Soldier, it

will be helpful.

To order Soldiers into a square Battle of Men, take the square Root of the Number, that shall be the side both for Rank and File: But if they be to be ordered into a double Battle, take the square Root of half the Number, and that will be the number in File, and twice so many in Rank, and if it be demanded to order them for times as many in Rank as in File, take the square Root of a fourth part.

To order them into a square Battle of ground, you may distinguish them into Order and open Order:

Order: Order, when the Centres of their places are distant 3 feet and an half in Rank, and 7 in File; open Order, when the Centres are 7 feet both ways. If it be a square Battel of Ground, and the Centre of their Distances in Order, then As 1.2: So the Number of Men, to another Number, whose square Root is the Number of Men in Rank: So by the help of extracting of a square Root, these sort of Questions are easily resolved.

2. For the Quartering and Encamping of Soldiers, called Cultramentation, it is requilite the Quarter Master General be skilled in Measuring, and all the under Quarter Masters ought to be skilled at Foot Measure, that they may lay out

their Quarters as directed.

Three hundred feet is the common Allowance for the depth of ground that a Regiment, whether of Horse or Foot, should take up, the wideness must be answerable to the number of Men Two hundred feet for the Huts in length, and one hun. dred for the Commanders and Sutlers before them; every two Soldiers to a Hut 8 feet broad and 8 deep, two feet one Hut from another, fo that there may be 20 Huts stand in the 200 feet; the Alley betwixt Hur and Hut may be 8 feet, that is, 16 feet in width and 200 in length for 40 men, which is 3200 feet, and for the 100 feet more 1600 feet, in all 4800, and there must be 25 Rows for 100 Men; so that for a Regiment of 1000 Foot, with Officers and Sutlers, will take up 120000 feet, which by the Table aforegoing, for turning Feet square into Acres, will be 2 ac. 3 r. which, because of ways, may be made 3 ac. of Ground for every Regiment, which may be 350 feet deep, and 370 wide, or near 360 iquare.

Now if 1000 Men, Officers, Sutlers, Highways and all, take up a square of 360 feet, how D 5 many many feet shall the side of a square be, to lodge 10000 Foot Men? &c. Say, As 1000. 10000::So is the square of 360 = 129600, to the square 1296000, whose Root is the feet required, viz. 1138 feet, which is very near 30 Acres of Ground.

For Quartering of Horse, you must keep the same depth of 300 feet for all, and take 200 feet for the Huts, the Horse Huts must be so feet deep and four wide, 12 Horses will stand in a Hut sogether, which is 48 feet long and 10 wide, and 6 feet a Street; the Huts for the Troops will be 6 for 12 Troops, and so imagine a Regiment consist of 8 Troops, 50 to a Troop, it will take up, leaving 20 feet Streets and Crois-Ways, very near as much Ground as the Regiment of Foot, ways and all, 360 feet = 3 Acres; fo that 10 Regiments will take up 30 Acres: You may very well allow as much ground, as both Horse and Foot will take, for the General, Train of Artillery, Victuallers, &c, and Parade places; fothat 120 Acres will well Camp 15000 Horse and Foot, and all Provisions belides. From these Considerations, you may be enabled to Encamp an Army.

Note III. Concerning Fortifications; by cufrom and use (neither great nor small Shot bringing such danger as the Fear) Forts and Fortifications are less considerable, and are taken in a
short time; therefore the late Engineers have
thought it to lay open the Flanks, and to dispose
the Works, so as they may receive more Cannon, that the Enemy may be kept-back from
approaching too fast, for all that can be done is
to get and obtain time.

I have dot room to enlarge, you may peruse Modern Fortifications, and there you may find several Varieties.

I will

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I will set down these two Tables, and their Uses, which are so short and plain, and will be at hand, that more shall not beneeded, supposing the Reader already seen in the Rudiments of the Art.

Table II. | Capital | Gorg | Flank | Curtain. | 333 | 200 | 150 | 600 | 600 | Capital | 398 | 437 | 367 | 333 | 312 | 300 | 291 | Gor. Li. | 155 | 196 | 203 | 242 | 252 | 260 | 363

Both the Tables supposeth the Interior Polygon to be divided into 1000 Parts. Then if you desire that the Flanks shall stand at right Angles with the Curtain, then by Table I if your Figure be an Hexagon, divide p p (Fig. 16) into 1000 Parts, make p a 333, p c 200, and raising e f at right Angles to p p, make it 150, draw f a the Faces, and c c the Curtain, you may compleat the Work: But if you will not make the Flank at right Angles to the Curtain, but open it a little, and have no second Flank, according to Travaux de Mars, set off the Capital and Gorg. as before, raise the Flank at 98 degrees to the Curtain, and laying your Ruler on a, &c. draw the Faces.

Note: That this Proportion is one Third of the Interior Polygon for the Capi al, and if you use one Fifth or one Seventh for the Gorg. and

Flank, it will be well.

The second way sets the Flanks at right Angles to the Lines of Desence. For Example: In Fig. 17, let it be an Heptagon, divide the Side into 1000 parts, look in Table II. under 7, set off 333 for the Capital, and 242 for the Gorges, draw occult Lines from a to c, which are the Lines of Desence, and raise Perpendiculars from the Points c, and draw c f for the Flanks.

Flanks, and f a for the Faces; this being well understood, may be applied likewise to Irregular Figures.

The fourth and last Note concerns Gunnery, or the Qualifications that able Gunners ought to have.

First, He ought to have competent Skill in Arithmetick, to keep his Accounts fair, and to enter in his Diary all notable Shots and Occurrences in his Art, to be able to cast up the quantity of Powder fit for each Piece, the weight of Shot of all forts. whether Lead, Iron or Stone; to work the Golden Rule in Proportions, to extract the Cube Root, which are formerly taught in this Book: He ought to have Skill in Geometry, to take Heights and Distance, to know the Divisions of his Circle, Quadrant, and Quadrate, to know how to Level, and to lay Platforms, and to raise Batteries; and though ordinary Gunners may be excused from all this Know. ledge, yet Mafter-Gunners, and those that defire to be knowing in this Profession, must not hereof be ignorant.

He must know his Piece and Name, which are taken from the height of the Bore, as in this sollowing Table annexed, which gives in the first Column the Names of the Pieces; next, the weight of fortified Guns; the third, the height of the Bore; the fourth, the height of the Shot; the fifth the weight of the Shot; the fifth the weight of the Shot; the fixth, Powder for Proof; the seventh, Powder for Service; the eighth, Paces (5 foot to a Pace) the Piece shoots point-blank upon the Level; the ninth, the utmost random the Pice mounted to 45 degrees; the tenth, the Horses; and the eleventh,

the Men required to draw a Piece.

Names.	Guns weight.	Height bore.	Height fhot.	F. Weight of thot.	Powder for proof.	Powder for iervice.	Paces point Blank	Utmost Random.	Horfes to draw.	Men to draw.	
Can. 8. Can. 7. Dem C. 24 l. Culv. 12 l. Dem.C. Saker. Minior Falcon	504 404 40 35 20 212	7 5.87 5.32 4.40 4.25 3.5 3.3	5.62 5.62 5.46. 5.4.0 8.3.4	63 12 32 24 7 18 4 12 30 51 8 4	17 14 10, 9 5,2 4	18	180	1800 1800 1800 1810 1810 1840 1750 160 120	0 16 0 10 0 10 0 10 0 10 0 10 0 10 0 10	80 60 50 50 40 35 40	000

Next he must learn from fome Gunner the Parts of a Piece of Ordnance, the Caliber or height of the Bore, the Hollow Cylinder, the Chamber from the touch-hole to 2 feet of 18 inches where the Powder and Shot lie, the uppermost part next the Breech is the Base Ring, those Rings from whence the Piece grows less are called the Freezes, the uppermost of the Metal or Freeze at the Mouth is called Muzzle-Ring; those two knobs that hold the Piece in the Carriage are the Trumons, the thickness of the Metal is commonly measured at the Touchhole, the Trunions, and the Neck: And all these as the measure of Ladles, the length and the thickness, and bigness of the Carriage, the Trunions and many other things, were formerly taken from the height of the bore. He must also

be ready at all the Names about the Carriage of his Piece, viz. to know the Sides or Cheeks, the Axtree, Spokes, Nave, Hoops, Transomes, Bolts, Plates, Flooks to draw by, the Clout, the hole for the Linspin, the Shafts, the Thill and Thill-bolt, the Fore-locks and Forelock Keys, Cap squares, the Fore-lock Pins and Chain, the Pintle and Bolt hole, the Fellows, Nayles. Bars over the Fellows, Stirrops, the Ruts of the Wheel, Dowledges, Beds, Coins, Levers, Handscrews, &c. and to have ready his Ladles, Spunges, Cartridges, whether of Paper or Canvas, Formers of all forts, Sheepskins to make Spunges, Powder, Shor, Needles, Thread, Starch, Marlyn, Twine, Nails, Handspikes, Crows of Iron, Budg barrels, Baskets, &c. These being the General things he is to know and have ready, he is in particular.

1. To Tertiate his Gun, that is to know the thickness of the Metal, at the Touch hole, Trunion and Neck, by which you judge at the strength of the Gun, whether well fortified or no, this you do with a Coliper pair of Compasses, and if the Piece be home bored, the Diameter less by the height divided by 2 is the thickness at any place, he must searcher, or by restection of a Looking-glass, that the Trunions be well placed, that the Piece be neither top-heavy or otherwise, whether the Piece be bored away or no.

2. To Dispart his Piece, that is, to set such a mark upon the Muzzle Ring or thereabouts, that a light line taken upon the top of the Base Ring against the Touch-hole by the mark set at or near the Muzzle may be parallel to the Axis of the Concave Cylinder. To do this, take the Diameters of the base Ring, and

the place at the Muzzle where you intend the Dispart to stand, divide the Disserence of these two into two equal parts, and one of them will be the Dispart, which tet upon the Gun with Pitch or Wax, or which is the best way to name a Dispart as you see in the Fig. (18.) and tie it about the neck of the Gun with Marlyn or Twine: But if you have not Compasses, measure the Circles about, and work with them.

3. To be knowing in the weights of his Shot, which he may do by knowing the weight of one; as a Bullet of Iron of 4 inches Diameter, is found by Experience to weigh 9 l. Say, as the Cube of 4 is to 9 l. fo is any other Diameter Cubed to its weight: or as 9 l. is to the Cube of 4, fo is any other weight to the Cube Root of its Diameter. Lead and Iron are in their weight near, as 2 to 3, that is, a shot of 2 l. of Iron, and a shot of 3 l. of Lead will have the same Diameter or height Iron to Stone is as 3 to 8, Lead to Stone as 4 to 1, that is, a Bullet of Stone of 10 l. is equal in height to a Bullet of Lead of 401. Therefore knowing what a Bullet of Iron or any Diameter weighs, you may find the weight of a Bullet of the fame Diameter of Lead or Stone, by faying, for Lead having the weight of 9 l. of Iron for 4 inches: if 3 give 2, what shall 9,6? And for Stone, if 8 give 3, what shall 9 l. 3, 37? And so of any other: if more exactness be required, seek for it in the Tab'e of Metals, Pag. 17.

4. As the Shot is regulated by the Cubes of the Diameter, so is the Powder; suppose one pound and half of Powder be a charge for a Falcon of 2, 68 Bore or Diameter, what weight in Powder will be fit for a charge of Cannon of 7. Say, as the Cube of 2, 68, to 1, 5 l. of

Powder, fo Cube of 7 to 26.

The

The Logarithms facilitate this work, the Log. of 2, 68 is 0.42813 5x3 = 1.284405 of 1, 5.0 176091. of 7 is 0.845098 x = 2535294 now 0. 176091 4 2535294 = 2711385 1 284405 = 1 926980, which is the Log. of 26, 73, which is much above the allowance.

5. To know whether his Piece be true bored, the Master Gunner must shew him, for that is only practice, by taking the differences of the Disparts from a fitted Cylinder of Wood for the

Bore.

6. For the shooting in great Guns, and the knowledge of the true distance that any Piece will carry to, is a matter that depends upon many uncertainties, an exact answer will never be given to such questions there is such varieties in the trune's of the Bore, in the heights of the Shot, in the levelling and direction, in the Air, Wind, Occ. But for all these difficulties an able Gunner will go near the mark, and he considers Point blank, or Right Ranges, the Middle Ranges and utmost Ranges; the former Table gives you the level Ranges of each Piece, under the Title of Paces poinc Blank, five feet to a Pace, which is the beit distance for Batteries; the same gives you the utmolt Random accounted near ten times the former level Range; and for all other Mountures while Gunners have agreed, which I shall not live to fee, take this Table to every fix points of the Gunners Quadrant for these Guns, viz. to 450.

	Y T 1	2	3	4	15	16
Gannon of 8 Gannon of 7 Dem. Cannon Gulv.	675	1147	1431 1325 1590	1710 1489 1425 1710	1487	1500
Dem. Culv. Saker. Minion. Falcon.	625	765	1325	1653 1425 1026 1254	1071	1080

For shooting in Mortar-Pieces which are elevated above 45 degrees, and nearer to 90; you must use much practice to come to be perfect, after a shot or two be made you will be best able to judge how you must order your Gun, keeping still to the same Powder, the alteration whereof will alter the shots Random, you may have Tables in most Books of Gunnery, which you may prove and approve.

S. 6. Problems for Practice of Plain and Spherical Triangles upon the Sphere in Plano; with the ordinary proportion thereupon; Problems In Geography and Navigation; Dyalling, a New Projection of the Sphere; a particular Dyal.

Prob. 1. Of these three, the length of a Perpendicular style upon an Horizontal Plain:
2. The length of the Shadow: 3 The Altitude of the O above the Horizon, any two being given to find the third, see (Fig. 19) Say, as in plain Δs , as AC. AB:: Rad. cot. of ABC the upper edge of the O 4 15 the height of the Centre. Turn the Figure upwards, it is the same upon a Wall.

Prob. 2. Of these Three; 1. The Meridian Alt. of the or *; 2. The Elevation of the Pole;

Pole; 3. The Declination of the \odot or ** any two given, to find the third For Alt. Equinocial (which is always the Complement of the height of the Pole)—Merid. Alt. = Declination South or Merid. Alt. = Alt. Equi, = Declination N. The greatest Declination is found

now constantly to be 23 deg. 304.

Prob. 3 Of these Five; 1. the greatest Deci. @ 3 2 Longitude of the O, from the next Equi. point; 3. the @ Right Assention; 4 The Decl. in that place; and sly, The Angle of the Eccliptick, with the Meredian, any two being given to find the rest: For in (F.g.20.) the A, V @ a right L at a, L at v is the first part in the Problem, v O the second, v a the third, a O the fourth, and the Angle O the fifth, any. two being given, the other 3 may be found by the Rules for right Angl'd As before taught. Note that the Longitude of the @ and its right Ascension from the beginning of Arres are true in the first Quadrant, but must be substracted in the second Quadrant, and added in the third from or to 180 deg. in the fourth Quadrant must be substracted from 360.

Prob. 4. The Right Asc. 1 the hour of the day, the right Ascension of Mid-heaven, any two being given to find the third, for the right Asc. 1 Time from Noon = right Asc. of Mid-heaven and Time from Noon = right Asc of Mid-heaven = right Asc. 1, and right Asc. 1 right Asc. 1

Mid-heaven - Time from Noon.

Prob. 5. Of these Six: 1. Elevation of the Pole; 2. Decl. (* or *; 3. Altitude of the © or *; 4. The distance of the © or * from the Meridian; 5. The Azimuth of the © or * from the North; 6. The Angle of the © or © shewing its Position in respect of the Pole or Zemith, any three given to find the rest: For in the Oblique angled $\triangle Z \cdot N \cdot Z \cdot N$ is the complement of the Elevation, the first, N. © the Comple-

complement of Dec. the fecond, Z. o the complement of the () Alt, the third : The Angle at N. is the distance of the (*) or * from the Merid to the time of the day the fourth, the Angle at (6) is the fifth, and at Z the lixth.

Prob. 6. Of these Five; i. The Elev Pole; 2. 2) Decl. 3. . Alt. at 6; 4 (e) Azimuth. at 6, 5. The Polition in respect of the Pole and Zenich; any two given to find any one of the rest, for in the right Angled AbY c. 4 at Y is the first, Y b the second, b c the third Y c the

fourth, and the L at b the fifth

Prob. 7. Of diese Five. 1. Decl. 2. Ele. varion of the Pole; 3. The Amphrude of the 3 riling or fetting; 4. The Angle of the Horizon and Merid : at the) riling ; 5. The time from Midnight, any of these two being given to find any of the rest: for in the right L W d NO, D N is the complement of Declination the first, NO the second, dO the Complement of the third, L d the fourth, 7 N the fifth.

Note, That the Angle at N or LdN e, is the compl. of the Ascens. Diff which might be found also more clearly in the A Y f d, under the Hor.

Note, That the Ascentional Difference turned into time, by allowing for every degree 4' of time sheweth how far the priseth from fix a Clock, may be the time of the (e) rif. and fetting.

Note, That if the Elevation of the Pole, and (Decl. be both either North or both South, then the right Afc. ____ Afc. Diff. = obl. Afcention, and added = oblique Descention; but if the Elevation of the Pole, and Dec. be the one North and the other South, then add for the oblique Ascens and substract for the Descension.

Note, For the Not-riling or Not-letting of certain Stars. 1. If the Elevation of the North Pole be greater than the Complement of the North Declination, then that Star setteth not, or than the South Decl. then the Star riseth not, and if the Elevation of the South Pole be greater than the Complement of the South Declination of the Star, then that Star setteth not, if greater than the North Declin. then that Star riseth not

Nose, That if you double the (a) fetting it is the length of the day, (a) rising the length of the night, and half of that is the semi diurnal Arch.

Nove, Because the obtaining of the Hour and Azimuth is very useful by taking the height of the (a), I will here set down an Exam. of them both, after the manner of the last Problem in Spherical $\triangle s$. In the Lat. 51. 30, the (a) height 32° the Decl. 18° first for the hour, then the Azimuth.

Co. pole 38 30 ar. fi. 0.205850 Co. Dec.72 00 ar. fi. 0.021723

 $\begin{array}{c}
X - 33 & 30 \\
Co. Ht - 58 & 00 \\
\hline
Z - 91 & 30 \\
X - 24 & 30
\end{array}$

Half Z 45 45 fine 9.855069 Half X 12 15 fine 9.326699

Z. 19.409368

Sine 30° 26' halt Z. 9.704684. The hour 8 a Clock and 1 min. Azimuth.

Co. pole 38 30 az. si. o. 250850 Co. Hr. 58 00 az. si. o. 071579

X-19 30 Co. Dec. 72 00 Z-91 30 X-52 30

Half Z = 53 45 fine 9.645706. Half X. = 26 15 fine 9.645706

19.778231

The Az 50° 47! halt 9.889115

Note II. Of Geography, which is the knowledge of the Habitable World, and the measures thereof; first, you must know that the Latitude of any Place is the distance of it in degrees and parts from the Equinoctial; the Longitude is the distance from the first Meridian placed by Ptolemy in the Canaries, but the most of the latest Geogr. place it in the Azores. From West to East the account is by degrees and parts, or by hours, accounting 15 degrees to an hour, and for every degree four minutes, and every minute four feconds.

The Zones are five; 1. The Torrid Zone betwixt the Topicks, two Iemperate betwixt either Topick and the Artick and Antartick Circles, and two Frigid from them to both the

Poles.

The Climates and Parallels lie parallel to the Equator. A Climate is a Zone or Girdle that is contained betwixt two Circles parallel to the Equator, those Circles have the longest days differing half an hour, the middle Circle betwixt them has a quarter of an hour difference from

the Extremes.

In respect of the shadows, the Inhabitants are differenced into Amphiscii, whose shadows are fometimes in a year round about them. East, West, North and South, being those that inhabit the Torrid Zone. Heterofcii those that have their shadows one way as in the Temperate Zones. Periscii, those that in a day may have their shadows round about, as in the Frigid Zones.

In respect of the situation, the Inhabitants are Periecians that dwell under the same Meridian, and in one Parallel diametrally opposite in that parallel, they have the same Winter and Summer at contrary times, unless in the Frigid Zone; Antecians dwell in like parallel from the

Equator,

Equator, the one North, the other South, and under the same Meridian and Longitude; Antipodes are those that are Diametracally opposite by the Centre of the Earth: they have contrary Winters and Summers, and days and nights contrary, if

out of the Torrid Zone. The next thing is to consider the Maps, first of the World in General; which have these Circles, the Equinoctial, Ecliptick, Tropicks of Cancer and Capricorn, Circles, Artick and Antartick, Meridians and Parallels, such a Map shews the Effigies of the Globe of Earth in Plano, and in it you consider what places are North, South, East or West by the Meridians and Parallels, and confidering any Province or Place, you presently see how it is posited to the North or South by its Latitude, to or from the first Meridian by its Longitude, then in what Zone or Climate, what is the longest day, Latitude, Longitude; and it is confiderable that Geographers make the right side of a Map the East, the left West; the North the highest, and South the lowest parts; next for the distance of Miles, the Italians and We account fixty to a degree, which would answer a mile for a minute, but it holds not true in either, for according to Mr. Norwood, near 70 miles English make a degree, and in Italy at Bononia according to Ricciolus 66; however let the account be 60 to a degree, and then to reduce those to En. glish, say, as 6 to 7, so is English miles to Aftro miles; and contrarily, as, 7, 6, so Aftr. miles to Engl. How measures in Feer of most Countries agree, you may find in the Table at the end of the Book, Entiruled, Foreign Mea-Jures and Weights compared with the English. In all particular Maps you have a scale of miles to measure the distance of places, if those places lie within the opening of the Compaffes, if further.

ther, then by a Ruler turn the Compasses oftner about. The Globe of the Earth hath for its Superficies, Land and Sea, near the one equal to the other, the great Continents of Europe, Asia, Africk and America, are called the Firm Lands or Continents; the rest are Islands rounded by the Sea; Peninsula's joined only by a neck of Land to the greater, as the Morea, &c. Isthmus that very neck, Promontory high ground that

juts out into the Sea.

Again, the Seas are divided Into Oceans or Main Seas, and the Mediterraneum, or Midland Sea. A Gulf is part of the Sea, almost cut off, as the Baltick Sea. A Streight is the part cut off. as the Streights of Gibralter, thefeare the General Heads: And for a more particular practice, confider Figure 21. wherein N. is the North Pole, S. the South Pole, E Q part of the Equinoctial, A and B-two Places in the Northern Hemisphere, D, C two in the Southern, A B, A C, add D C are part of great Circles passing betwixt those several places; QB the Latitude of B, E A the Latitude of A, both North, FD and C Q the Lat. of D and C South. LANB = LDSC is the Difference of Longitude, of A and B or D and C, the Ls NAB and ABN shews the position, how one place lies from another: Therefore first. it two places lie in the fame Meridian, both on the North-fide of the Equinoctial; as B and F: QB being the Lat. of B and Q E of F, the difference of their Latitudes BF is their distance in degrees; if one lie on the Equinostial, th'other not, as QB the Lat. of B. is the Distance, if one have N. Lat. the other South as B and C, the fum of both their Latitudes is their Distance BC. All which, and some other varieties, as being both upon the Equinoctial, are easily understood upon the Scheme. And (95)

And for more Exact Rules to know the Difrances, and Politions of Places, confider the Triangle ANB, there are fix parts in this oblique Spher. A. A. N the Complement of the Latitude of A,NB the Complement of the Lat. of B, AB the Distance of A and B in a great Circle, LAN B the Diference of Longitude of A and B, the L NAB the polition how B bears from A, from the Merid. towards the East, and the LNBA how A bears from B towards the West, Any three parts of these six being given, to find any of the rest, use the Doctrine taught before in oblique Spher. As if both the places be in South: Lat. as B C it is the same with the former, if. one be North the other South resolve the A N A C. These Rules serve to find the distances and, position of any two Stars after the same manner. The A CAB may by help of the former Rules be likewise resolv'd.

Lastly, To know how many square miles or perches there are in the whole Earth, or in any parcel or part thereof included in a Triangle, as ANB for the former, find how many square degrees there are on a Sphere, whose circumference of its greatest Circle is 360; say, by the Rules before taught; As 7. 22:: so square of 360 (= 129600) to the superficies of the whole Sphere in square degrees 407314, and supposing sixty miles in a degree, there will be 3600 square miles in a square degree (though there be more in the Curve) which gives 1466330400 square miles in the whole; but to reduce these to English miles: say, Q.6 = 36. Q7 = 49:: so 1466330400 to 1077303266 English miles

by the Back Rule.

But if it be a Spherical Triangle, as A N B, or any other, as A B C, and it be required to give the proportion of that Δ to the whole Sphere, according to Mr. John Leak's Rule, de-

monstrated

monstrated by Mr. Foster, add all the Angles of the Spherical Triangle together, from which subduct 180 deg. div de the rest by 720, it leaves the deg. and min. in Proportion to 360, as that Triangle to the Sphere.

Note III. Of Vavigation, which teacheth how and by what means a Ship may be directed on

the Sea to the Place or defired Port.

In short Passages, where you are but a small time without fight of Land, the Compass and knowledge of the Land and Sea-marks are fufficient; but in long Passages, where, belides the Compass, Lead and Log line, there are required Instruments to take the Latitudes, and to enquire after the Longitude and Distances. You may consider the same as one simple Course, or compounded of many: There are three ways of performing both Courses; 1. By the Plan Sea-chart; 2. By Mercator's Chart, or lastly, by a Great Circle. The last is in part taught by the Rule in Geography last mentioned, of the distance and position of Places, but is not practicable at Sea- The first may serve near the Equinoctial, but farther off and in long Courses is false; the second is true in all Courses, and ought to be most practised; the first and second ways are practifed alike in plain Triangles, the Difference only, that the Meridians are not equally divided in Mercator's way; but you must use the Table at the latter end of the Book, called, A Table of Meridional Miles, whereas in Plain Sailing all the Lines are equally divided: The Practice will belt appear by these tew Problems.

Probl. I. To convert the Rumbs or Points of the Compass into Degrees of Inclination towards the Meridian Line and contrarily. The Mariners divide their Compass (which repre-

E fenteth

(98)

senteth the Horzontal Circle) into 32 parts, called Rumbs; but it had been far better to have used 360 degrees, to have been accounted from both ends of the Meridian Line towards East and West: But because this Division is not used, take this Table, which will convert the Points of the Compass into degrees and minutes of the 4 of Inclination with the Meridian, and contrarily.

		-	
the Wst encline to- wards the North-end of the Meridian.	Ang Incli- with Mer	nat.	These on this side of the East incline 11- wards the North and of the Meridian.
Rumbs.	No	th.	Rumbs.
North by West. N. N. W. N. W by N	11° 22 33	15 ¹ 30 45	North by East. N.N.E. N.E. by N.
North Weft.	45	00	North East.
N. W. by W. W. N. W. W. by N.	56 67 78	15 30 45	N.E. by E. E.N.E. E. by N.
West.	90	00	East.
West by South. W.S.W. S.W.by W.	78 67 56	45 30 15	East by South. E.S.E. S E by E.
South West.	45	00	South East.
S. W. by S. S. S. S. W. S. and by W. Rumbs.	33 22 11 So	45 30 15 uth.	S.S.E.
These on this side W. incline to the S. and of the Meridian.			These in this side E incline to the S. end of the Meridian.

If you account to quarter of Points, add 2° 48' for one quarter, 5° 37' for two quar-

ters, and 8° 26' for three quarters.

Prob. II. A Ship sailing under a great Circle, to know how many English miles answers the degrees: If it sail directly N. and S. it is under the Meridian, if E. and W. under the Equinoctial; say, As 1 degree gives 70 miles:: So de-

grees gone give the English mile.

to know how many English miles answer to the number of degrees in that Parallel; say, As Rad. Si. co. to the Lat. or the Parallel: So is the number of the degrees in that Parallel, to the number of Great Circle degrees; which turned

into miles, gives the Answer.

Prob. IV. The Rumb, the Distance upon the Rumb in miles, (60 to a degree,) the Difference of Latitude in miles, the Difference of Longitude in miles, any two of these given, to find the other two: In a plain right ld A. (see Fig. 22.) where A is the place from whence the Ship fails, the Rumb N. E. by N. therefore the Angle of Inclination BAC by the Table is 330 45', its Complement BCA 56° 15', Cthe place to which the Ship is to fail, AC the distance in miles 909. miles, AB is the difference in Longitude 853 miles, B is in Latitude 59° 361 = A.C in Latitude 47°, therefore A C is 856 miles; this is according to the plain Fea-Chart: But according to Mercator's, you must find the distance ACby the Table of Meridional miles, thus; Use the same directions given in the Note for Geography, the places being both on one fide of the Equinoctial, substract the Merid. miles answering 47°, viz. 3202 from the Merid. miles answering 59° 361, viz. 4480, rest 1278 miles for the distance A C. This being the only difference in these two kinds of failing, and thus observed, the Resolution of this 1 2 A will

A will perform all simple Courses; and if it be compounds in many Courfes, you must formany

times multiply your peration.

Note IV. Concerning Dialling To make an Horizontal Dial, you must calculate the distances on the Horizon to the Meridian, to each hour, half hour, and quarter by this Rule; As Rad, to Sine of the Latitude :: So Tang of the Equinoctial hour from Noon, to the Tangent of the Horizontal Distance from the Meridian, of that hour, half, or quarter.

It you deare to calculate for every minute, then you take every minute for the Equi.hour,if for every quarter, then begin with 3° 45',7° 30', 11° 13', and 15 for an hour, &c. To make a Dial for a fuil South Wall, is the same with the former, only changing the Sine of the Latitude to

the Coline.

For a declining upright Plane, you must first find the Angle of the Meridian and Substyle thus, as Rad. to Cotang. Lat :: Sine Decl. to Tang. L defired. Secondly, the height of the Style above the Substyle, thus, As Rad to Cosi Deci .:: Cosi; Lat. to the Sine of the height defired. Thirdly, the difference between the Merid. of the Plane and Place, As Si Lat. to Ran. :: So Tan. Decl. to Tang. defired. Fourthly and lastly, you must find the Angles which the Hour lines make with the Sub. style line, which is the Merid. of the Plane; As Rad. to Si. of the Style-height above the Plane: So is the Tang of the Hour line from the Merid. of the Plane, to the Tang defired. For a Meridian Dial, where the Plane looks full East or West, the Hour lines are all parallel to the Line that passeth from Pole to Pole, which is the hour of 6; then say, As Rad to the height of the Style in any known parts of a Scale: : So is the Tangent of any hours distance from 6, to the distance there. of in the fame parts. Now

(101)

Now for a Mecanical way to make any Dial to any Plane, whether declining, reclining or inclining, crooked, bender, or any ways uneven, without any notice taking of any fuch declination, which belp of a large and good Horizoatal Dial, which must have a finall hole in the Centre to infter a life. Thread orbits rego through; you may work thus under the Plane: Where you are ad to make a Dial, draw a Level Hariz atal Line by a Corpenter's or other Level, to this Line fet a Scaffold ordinance of any board or boards deep according to the bigness you much the Dial to be; this Scaffold

muit be level likewife

This being titted, and by any other true Dial, Equino ial Ring, or by the height of the (e), your Minute-Watch r. & fied, or otherway, find the true Time of the Day, and placing your Horizontal Dyal upon the level Plane, keeping it to the true time of the day, by removing it to and fro, you may by the thread from the Centre, carried by the edge of the Gnomon, find out the Centre of the new Dial, it it will have a Centre, which mark, and by small tacks fasten your Horizontal Dyal in that place, that it may not move the thread or hair carried by the edge of the Gnomon, it continued in either Pole, and is the Gnomon to the new Dyal; the perpendicular Line under it taken by a square is the Subityler, and the Style may be faitened to the Plain by help of that thread.

Now to draw the Hour lines, do this; Lay the thread, fixed to the Centre of the Hor zontal Dial, over the Hour lines and Quarters, and mark out in the Horizontal Line on the plain where they interfect; Lines drawn from the Centre of the new Dial to these Points, are the Hour lines: But some Hour lines may run off the Plain, or by reason of the crookedness, or some Pillars

E 3

may

may hinder; to help this draw as large a square or oblong upon the Horizontal Plain as you may, and transfer (by help of the Centre thread)all the hours from the Horizontal Dial into the Lines of the outlide of the faid square or oblong; now if you bring a thread from the Centre of the new Dial, and rest it upon the hour Points marked in the faid square, the Centre thread of the Horizontal Dial, carried only to touch the other thread, will describe the Hour line desired, whether upon an even or uneven Plain that have Centres tor the new Dial; but if the Line carried by the edge of the Gnomon of the Horizontal Dial will not meet with the Plain, as in all East and West. Plains much declining, then must you fix up a board or other matter to receive the Centre by the lide of the Plain, and then fixing a thread there, by that and the other thread you may ffrike all the Hour lines, as was before shewed in crooked Plains, and the thread from the Centres being the new Gnomon, must be fixed to the Wallby two stays

This may be practifed with as much curiofity

as any other, and will be fure and exact.

Note V. The Descrip ion and Use of an Universal Dial for all Latitudes, being a Projection of the Sphere in Plano, presented to his Royal Highness, Anno 1665. for his particular Use at Seo.

One Hemisphere being circumscribed by a Cylinder, wherein the Equinoctial and Cylinder touch, let the Hemisphere be conceived so to extend from the Equinoctial, that the two Colures, and all the Meridians, may touch the Cylinder in the Tangents of the Degrees and Minutes of the Meridians, all the Meridians will be streigh Lines, all the Parallels Circles distant from one another as their Tangents; and for particularuses, let the Hemisphere have upon the Intersection

Intersection of the Equinoctial Colure and Equinoctial Semicircles, at each degree distance.

These, as likewise the Ecliptick, and all other Circles described from that Point, will be Ellipses on the Cylinder: Having this Cylinder thus furnished, laying it upon a Plain, so that the Eq 11noctial Colure may touch the Plain, let this Cylinder be orthographically or perpendicularly projected on that Pia n; so have you the Dialor Hemispherenow octore you, the demonstration whereof will be too tedious for this place. The description thus: The Point of V and is the Centre, the uppermost Line divided both ways in. to 90 degrees is the Equinoctial, the Line Vothat goes at right Angles down is the semicircle of the Equinoctial Colure, the two edges are the Solstitial Colures, and stand for the Meridian of 12 a Clock, all the streight Lines from top to bottom are the Meridians or Hour lines to every quarter of an hour, 15° of the Equinoctial above being an hour; the Meridians on both edges are number'd, from the Equinoctial to the Pole, and from the Pole to the Equinoctial to 90°. The Parallels to the Equinox are drawn through every degree of the Meridian, and are so numbred both on the edges and on the middle being the Axis of the Sphere, upon the Quadrant on the lest hand are drawn several Elliptical lines, which represent the Circles formerly spoken of, describ'd upon the Centre, being the point of East and West to every two degrees. The Ecliptick is drawn both ways from the Centre v and a. declining 23 degrees 30 minutes upon the Meridian, and divided into Signs and Degrees by those Elliptick Lines.

The back fide of the Instrument has many Uses shewed in the beginning of the Book;

those of this Projection follow.

Use 1. Having the @ place, to find his Declination, Right Ascention, or by either of these to find the place. First, find by the day of the Month on the back inde the place, which seek in the Ecliptick, the Parallel that passeth by that place shows the @ Declination, and the Meridian the Right Ascendion in the Equinoctial; so likewise the Declination or Right Ascendion

given, shews the @ place.

Use 2. To rectifie the Centre Thread to shew any Horzon, or any Line of East and West which parieth to the Zenath, or any Inclination to the Horizon or EquinoStial, that any point upon the Hemisphere shall make with the Horizon -The Centre thread la.d to the Latitude of the place on the leithand in Summer, or on the right hand in Winter, will represent the Horizon of that Latitude by the greater figures which come numbred from the Pole. And it you lay it to the Latitude from the Equinoctial numbred by the smaller Fi. gures on the right hand in Summer, or left hand in Winter, it represents the Line of East or West, and the point in the Meridian shew the Zenith. Or any point upon the face being fet out by the parallel and time of the day, laying the Centre thread thereto, it shews on the edge how many Degrees it inclines or declines to or from the Eq inoctial, and that being added in all Northern Signs, or substracted in Southern to or from the Equinoctial height (which is always = to the Complement of the Latitude,) it gives the Inclimation or angle a great Circle passing by the point given makes with the Hor.zon.

Use 3. To know the time of Rising and Seting of the , the Ascensional Difference, the Amplitude, and the length of the Day or Night. (109)

By the last Proposition lay the Centre thread to the Meridian for an Horizon, wherever the Oparallel cuts it, amongst the Hour lines, it gives the Orning and setting, and the Elliptical line which passeth by that place gives the Amplitude, or the distance in degrees from the East; the Meridian of the original carried to the Equinotial shews the Ascentional Difference in degrees; lastly, double the Oscietting for the length of the days, and rising for night.

Use 4. To find what time the O will come East or West, and what height the C shall have at that time. By the second Proposition, lay the Thread to the Latitude told from the Equino-Rial in the edge on the contrary side to the Horizon that is the Line of East and West, and solloing the O parallel to that Line, the Point where the Intersection shall be amongst the hours gives the time, and among the Ellipses the O height at that time

Use 5. To know the height of the 6 at fix a clock, and the Azimuth or distance the 6 shall have from East to Weit. Follow the 6 parallel to fix a clock, the crooked lines shew you the 6 height; and laying the Centre Thread to the point of East or West, mark where the Parallel cuts it, and follow the Hour line to the Equinoctial, (which now shall represent the Horizon) the distance from the Centre is the Azimuth.

of the day. Setting the Horizon right, find the point of the © rinng, then setting one point of the Compasses there, extend the other to the Zenith, and by a black lead Point make an Arch that shall end upon the hour of the priling.

(186)

the degrees of that Circle cut by the Hour-lines, shew the height.

Use 7. To rectifie the Hook, Bead and Plummet. At the end of the Hook (which by its skraw may be moved at liberty) there hangs a Thread and Plummet with a moveable Bead, the very end of the Hook, from whence the Plummet hangs, must be skrewed fast to the place where the @ riseth on the Horizon, and the Bead must be set to the Zenith on the contrary side.

Use 8. To find the hour of the day at any time, the (a) shining. After the Hook and Bead be rectified, as is set down in the last use, list up the Instrument, (so that the Bead and Plummert do freely play) that the (a) may shine through the least sight upon the other, the Bead shews the time of the day amongst the Hour lines.

Of 9. By the height or hour, to know the Azimuth. By the second Use, observe where the Meridian of the Hour and the Parallel meet, and the reby on the side find the Inclination of the Point to the Horizon, where lay the thread, then by the 6th Use, find the height; now let the Equinoctial represent the Horizon, and accounting the height amongst the Parallels, where Parallel crosseth the thread laid to the Inclination, sollow the Meridian to the Equinoctial, the number from the Centre is the Azimuth from the East.

Use 10. All the former Propositions may be applied to the Stars, remembring the flows the hour; therefore use the Right Ascension of the which take from the Right Ascension of the

the Star, (if it be bigger, if not, add 24 hours) rests the time of that Star's coming to the Meridian; and if you know the Stars hour before midnight, take it from the time of the Stars Southing; if after, add it, you shall have the true time of the night. These excellent Uses you have from this Instrument, sold, if you defire it, with the Book: If you defire it of Metal, and larger, Mr. Hayes Mathematical-Instrumentmaker, living in Moorfields, will make them. Laftly, upon the infide of the Cover you have a perpendicular Dial will serve within 30 miles from London presently to know the hour of the day, the Parallels up and down answer the day of the Month, the other streight lines that are parallel shew the (height, and wherever that crofleth the other, there is the hour, the long hours for Summer, and short ones for Winter, and placing a Pin in the Point VI, letting it shade in the Line VI, IV, a Line and Plummet playing from it, will shew the height on the right lide.

1. The Fusie, and how many Turns it hath.
2. The number and names of the Wheels,
Teeth,

S. 7. Of the Nature and Making of Watches, Clocks, and other Movements, Collected from Mr. Oughtred's Antomata; with several Additions and Notes about Pendulums.

THE great Wheel, whereon the Fusie or String with Weights are fixed, divides the Nature of the Work in any Movements, that is, all the Wheels and Pinions from that to the Ballance or Fly only prepares the Motion, but the other way effect it. Things to be noted, are.

Teeth, and Pinions, viz. in a Watch of four Wheels, (supposing the Numbers annexed to be the Teeth;) First, The Great Wheel (Number 55 Teeth) turning the Pinion, (number 5) fixt to the Second Wheel, (Number 45.) turning the Pinion, (Number 5.) fixt to the Contrat Wheel, (Number 40) turning the Pinion, (Number 5.) fixt to the Crown Wheel, (Number 17.) having odd Teeth, working upon the Pallats of the Ballance, (Number 2.) But in Watches of five Wheels, there will be a third Wheel before the Contrat Wheel.

3. The Pinion of Report fixt to the Arbor of the Great Wheel, (Number 4) which lies hid betwixt the Plates in Watches, and turns the Hour wheel (Number 36) which carries the Hand about upon the Face, divided into 12 or

24 hours.

For brevity-sake, let M stand for the Movement, whether Watch or Clock, F. the Fusie. A the Great Wheel, a the Pinion of Report on its Arbor, E the second Wheel, the Pinion on its Axis, I the Contrat Wheel, the Pinion on its Axis, O the Crown Wheel carrying o its Pinion on its Axis; B the Dial wheel carrying the Hand, in H. Hours, T. Time, t. turns, N. Notchesor Beats of the Ballance; Con. Continuance and length in Time of the Watches going.

The work will stand, both in Letters and

Figures, as in the Example.

a) B (d 4) 36 (9 e) A(f 5.) 55 (11 i) E (g 5.) 45 (9 o) I (k 5.) 40 (8 o 17 Crown Wheel. 2 Pallats. where every wheel is divided by the Pinion it moves from A to O. viz. 15 by 5 = 11 = f.45 by 5 = 11 = 9. = 40 by 5 = 8 = k. But B divided by a gives 9 that is B by a = d.

equal to N. Notches or Beats made in one turn of the great Wheel, and 26928 x 9 = 242352 the beats that are made in one turn of the hand, whether 12 or 24 Lastly, divide 242352 by 12 it gives the beats in an hour, 20196, and by 60 gives the Beats in a minute, 336, 6. Thus far I quistion not, is very plain, and must be practised to be well understood, as being the Foundarion of the whole work; and by it you may easily know how many turns any Wheel or Pinion, makes for one turn of the Fusie or Hour wheel.

2. Rule. As the Beats for one turn of the great Wheel or Fulie 26928

. Is to the Beats gone in one hour --- 20196 :: So continuance of the Watches going -16

. To the number of the turns about the Fu-

These proportions holding, that any three given, (not the same kind,) you may find the

fourth :: As for Example,

Toknow the continuante of the Watches going, that hath 12 tuins in the Fusie, and 269:8 Beats in one turn; and 20196 Beats in an hour. Say, N in an H. N one t F:. 12 t. of F. to Con. 20196) 26928 x 12 (16. But if it be demanded by the Beats, and the time of the Watches going to know the Turns of F.26928)20196 x 16 (12. Or if it be demanded, what Quotient shall be laid upon

upon the Pinion of Report; Say, 16. 12:: 12. 9; or as 26928.20196. Note that the lesser B is taken, the longer shall be the continuance of the

Watches going at an equal T.

Rule 3 Concerning Pendulums. The spring in a Watch, drawing harder at the first than at the last; and likewise in Clocks with weights and strings, there is added the weight of the string gotten every moment, to the Clock weight and for that no Motion can by hand be made so sit, but there will come some unequalness, as you may hear by the Beats either of Watch or Clock, to justen and regulate these inequalities Monsieur Hugens invented the way of applying Pendulums to either, for which his Name will be ever Remembred.

Pendulums, whose Vibrations are of the same D grees and Minutes are equal, or if they rise not above a Degree, and the squares of their Vibrations are in proportion to the lengths: For a Standard or Rule Monsieur Hugens gives the length of a Pendulum that shall swing seconds, to be 881 to the Parisian seet 864. The English Feet to the Parisi Feet by my Table are, As, 1000. 1068. Therefore, 864. 881:: 1.058. 1.089 and 1.089 x 3 = 3, 267 equal to three feet

three inches, and two tenths of an inch.

The Honourable Lord Brunker, and Mr. Hook, found the length to be thirty nine inches and; 25 parts, which a little exceeds the other, and may be, was Justned by Master Hugen's Rule for the Centre of Oscillation; for Montous Pendulum that shall vibrate one hundred thirty two times in a minute, it will be found likewise 8, 1 inches agreeing to 39,2 inches English: Therefore for certain 39,2 inches may be called the universal measure, and relied on, to be the near length of a Pendulum that shall swing seconds each vibration: With this caution and Rule, As the length

length of the string from the point of suspension to the Centre of a round Ball, isto Radius :: fo is Radiusto a fourth number. Let two fifths of that fourth be added to the former length, for the length of the Pendulum. Having this Standard, the next Rule is this: That the lengths of two Pendulums are in proportion to the squares of their several vibrations, which will be equal to the Beats of the Ballance; therefore the Beats that shall be proposed in a minure, being given to be 50, and it be demanded to give the length of a Pendulum; Say, as the square of 50 (2500) is to the square of 60 (3600) :: so is 39,2 to 56,4 the length required for (2500) 3600 x 39.2 (56,1.) And if the lengths be given to know the fwings or beats in a minute, As Altitude given, To Altitute known: fo square vibr. known To square vibr. req. whose square Root is the Answer: And because the two middle terms stand in all such Questions, and will be always 141120: Therefore divide 141120 by the square of the swings in a minute, it gives the length fought; or by the length it gives the square of the Swings. And thus as the Ingenious Master Hook first proposed, I have hang'd a swing by my Clock to regulate it upon a Pin, that it may freely vibrate.

wing by my Clock to regula
it may freely vibrate.

$$48) - 4$$
 (12
 $56 - 7$ (8
 $54 - 6$ (9
21
nbers of the great Wheel 50

The numbers of the great Wheel 56, its Pinion 4, turning the hour Wheel 48. The great Wheel turns a Pinion of 7 fixt to the Crown Wheel 54, which turns a Pinion of 6 fixt to the Ballance Wheel 21. The Quotients 8 x 9 x 21 x 2 = 3024 the beats in an hour, because the great Wheel turns once in an hour, else 12 x 9

x 21 x 2 = 36288.12) 36288 (3024 and 60) 3024 (50,4 bears in a minute, and as was shewed before, the length of the Pendulum will be 55, 5 inches, fix a weight upon a Wirerunning into a Rod, that shall have four feet 7, 5 inches below the Pin whereon it plays, and about a foot or above, a Wire beaten flat with several holes to fit to the top of this Rod, and to a Pin placed upon the Ballance towards the back side, will regulate the Motion exceedingly well, and may be done without trouble or charge.

For the regulating the inequality of a swing, when it may rise sometimes higher, sometimes lower: There are two ways, either by making the Line play betwixt two Cheek parts of a Cycloid, as Monsieur Hugens has directed, which may easily be effected to any length of the Pendulum, and are made, if any defire them, by Mr. Humphery Adamson (near Turnstile in Holbourn.) Or else by not suffering the Pendulum to vibrate above an inch from its settlement. For my part, after some time and charge of Experi-

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ments, I believe the fift the better way. Montieur Hugens in his Book of Penaulum Clocks, proposeth a Watch about a Mans height, to go 30 hours, and

to have these numbers. The great Wheel 80, &c. which turns about in an hour, and shews minutes; therefore for an hour multiply the Quotients, 10 x 6 x 2 x 15 x 2 = 3600 being the seconds in an hour (60 x 60 = 3600) or beats. Now the third Wheel I turns about in one minute for 10 x 6 = 60, and carries a plate divided into 60 seconds, and shews the seconds; and upon the Arbor of the great Wheel is fixed a Wheel

(113)

Wheel a turning another wheel a, both of 30 Teeth, both turning about in an hour; the larer has on it a Pinion b of 6 Teeth turning B 72 in 12 hours. This Watch has a pully tied to its weight, by which you may pull it up and not stop the Watch; the Pendulum plays betwixt

two Checks, part of a Cycloid.

The next question (supposing there be a screw below or above the Pendul. to list it up or let it down upon a squ. Brass Ruler divided into inc. and tenth parts) to know how many minutes and seconds every tenth part of an inch will make the Watch go taster or slower in a day. I take the Pendulum which swings, seconds length 39.2. Then by the Log. I make this Table.

TI	II.	III.	IV.	V. 1
38. 7	1.587711	1. 720988	60;39	9 21
1386	1. 588832	1. 780378	00;31	7.20
1.8.9	1.589949	1.779819	00;23	3.31
139.0	1, 591065	1.779201	60: 8	1.55
The second second	1.59,286	William Property on Assessment Street		
139 3	1.594393	1. 777046	50.85	3.36
39.5	1. 596597	1.7 6495	59.77	5 31
39.6	1. 597595	1.775996	59.70	7.26
139.7	1. 55879	1.775399	159.62	9.20

The first Column has in the middle the length of the Pendulum 39. 2 inches, upwards it diminisheth one tenth, and downwards in creaseth one tenth

The fecond Column are the Log. of the first.

The third Column are half of the Log of the difference of the II taken out of the Log 5.

149588, which is of the standing number 141120 aforesaid: The IV Col. are the numbers

(114)

bers of the III and the V Column are the minutes and seconds that these augmentings or diminishings will cause in a day, and are gotten by Multiplying 24 x 80 = 1440 the minutes in a day, by the decimals above or under 60, which work may be done easily to any length of a Pendulum.

Rule 4. Of finding out fit Numbers for the

Wheels and Pinions

portional perform the same Motion; as 9. 36. 45. 63.

- &c. The upper for the Wheel,

1. 4. 5. 7.

the lower for the Pinion.

2. If it be as one Wheel to one Pinion:: fo is the product of many Wheels, to the product of many Pinions, both will perform the

fame Motion. Exam. $\frac{1440}{28}$ equal to $\frac{36}{28}$ 8

 $\frac{5}{x-or} = \frac{36}{x-or} = \frac{8}{x-or} = \frac{50}{4x.7 \times 10} = \frac{36 \times 8 \times 50}{4 \times .7 \times 10} = \frac{50}{4 \times .7 \times 10} = \frac{$

280 28 nor matters it in what order the

Wheels and Pinions are fet, or which Pinions

stand under every Wheel.

3. These Factor's 36 x 8 given, may thus be varied, viz Divide them by such numbers as will measure them, and multiply the Quotients by the Altern Divisors, the Product of 9. 8 those two last numbers shall be two 36. 8 to the product of the Factor's given, for 4. 1 36 x 8 = 32 x 9 = 288.

4. If fit numbers cannot be had by any of the three former ways, you must seek some Ratio as near as possible in this manner, as

one of the two Numbers is to the other:: fo is 350 to 2 4 b. Divide that 4th number, and also 360, by 4, 5, 6, 7, 8, 9, 10, 12, 15; or which of them bringeth a Quotient nearest to an Integer; as if the two Numbers be 147, 170 which are too great to be cut into Wheels, and yet cannot be reduced into less, because they have no greater common measure than Unity. Say therefore,

170. 147:: 360. 3114 6) 311(52-8) 311(39. 147. 170:: 360. 4164 6) 360(60 8) 360(45. 8) 360(45-1 wherefore for the two Num-bers 147 and 170, you may take 52 and 60; 39 and 45, or 45 and 52.

Rule 5. The Diameter or Circumference of any Wheel being given in inches and one hundred parts, and the number of Teeth it is divided into, to give the Diameter or Circumterence of a leffer Wheel or Pinion, with a number of Teeth given that shall exactly agree with the Teeth of the greater Wheel: Exam. The great Wheel has one inch Diameter, and fifty Teeth, the lesser Wheel or Pinion ten Teeth; say if 7, 22:: 1.3, 14; then if 50. 3. 14:: 10.63 for the Circumference of the Pinion, whose Dia-

meter will be,2 of an inch.

Rule 6. To give numbers to a Watch that shall have a swift train, about 20000 beats in an hour, that may have turns about the Fusie, and go 16 hours, and the number of the Crown Wheel 17. Say by the second Rule 12. 16:; 20000. 26666. the Beats for one turn of the Fusie; and because by the first Rule 26666 is equal to all the Quotients multiplied together into 17 and into 2, that number being halv'd is 13333, and that again divided by 17 gives for the Quotient 784, which being broken into three numbers, that multiplied together will be

be 784, or near to it; let them be 11, 9, 8. multiplied are 792. Then 792 x 17 x 2 = 26928; and fay, 16. 12:1:26928 10196 the Beats in an hour. Also 16. 12:1: 12: 9 and \frac{2}{3} = \frac{3}{4}. Lastly, by the three Quotients, assured 4) 36 (9 Pinions, by taking the Pinions as 5) 55 (11 you defire, as is done in the side: \$) 45 (2 You may try several Experiments to make the Watch go longer by altering the Beats and Pinion of Report.

Examp. Of a Clock or Warch proposed to go a week or 8 days with this Order, that the Ballance Wheel, or that which moves the Pendulam may go about in a minute, with an Index to fliew feconds, that the great Wheel may go about in-12 hours, and that the Wheel next it may go about in one hour to shew minutes: First, how many seconds there are in 12 hours, and that 12 x 60 x 60 = 43:00 these are the Beats that shall be in one turn of the Great Wheel. These are double, because there are two fwings to one Tooth of the Ballance Wheel, the half 41200 is 21600 now the Ballance Wheel must needs be 30, d vide 21600 by it the Quotient is 720 to be broke into three Quotients, whereof the first must needs be 11 for the Teeth of the great Wheel, divide 720 b it, the Quotient is 60 for the two Quo ients remaining, which may be either to and 60 6, or 5 and 12, or 8 and 71, which last let stand, then the work will stand thus, and the 10-140 Pinions taken as you please to be all 8, the Wheels mult be 96.64. 60. So then the great Wheel will

go about in 12 hours, the second Wheel in an hour, and the Ballance Wheel in a minute, as desired. I gave my Watch these Numbers to

go above a year.

In my large Sphere going by clock work, there is a motion for the Revolution of the (*) Apogeum writ down on the Circle to be made in 17096 years, but by Examining the Work, I find it to be 17100, that is four years more. For the Great Wheel fixed is 95, a spindle Wheel of 12 bars turns round it 8 times in 24 hours, that is in 3 hours; afte: thefe, there are four Wheels, 20, 73, 24, and 75, wrought by endle's ferews that are in value but one; therefore 3 x 20 x 73 x 24 x 75 = 7884000 hours, which divided by 24 gives 3285000 days equal 900 years Now on the last Wheel 75 is a Pi nion of 6 turning a great Wheel that carries the Apogeum number 114, and 114 by 6 gives 19, and 900 x 19 = 17100.

Rule 7. Of giving particular Motions to any Movement. The number of a Motion, is the Proportion that it bears to one turn of the hour Wheel, or the Pinion of Report, from whither-foever it be taken, which proportion being broken into two or three Quotients, will shew the Wheels and Pinions, as if you took it for the Beats of the Ballance.

The last Note shall be concerning Time; that which is ordinarily termed the Hour of the Doy: Consider this in the length of days, which are two, distinguished only by the Revolution of the Earth: The first is the Syderial Day, where any fixt point or points of the Earth in the same Meridian or Azimuth returns from any Star to the same again; the second the Solar Day, where the same Meridian of the Earth returns from the 6 to the same again, neither

neither of these days are the true Equinoctial day, indeed the Syderial is sensibly the same, if it be but for some small space of time, the difference being only fome fourths and fifths of a degree flower in a day; but the Solar is notably longer than the other, viz. by 3, 56", 53", 19", of time in a day, and from hence the length of an hour is generally accounted: Therefore to fit the Pendulum of a Watch or Clock to this Solar day and hour: I. By the Revolution of a fixed Star to the same point again after one or more Revolutions (which you must curiously observe by fixing your eye want 31, 56th of 24 hours, or for two, 7, 45", for three, 401, 3511, O'c. then doth your Watch go true to the Equal or Middle Motion of the (e), if otherwise, the Pendulum must be altered to make it go fo. II. By a Sun Dyal, which though it be made never so exact, and your Motion so too, yet there will be a considerable difference after some days, nay even in one day, all which talls out by reason of the inequality of Natural Days, (which at last is settled and demonstrated by Mr. William Flamsted,) from whom (if God continue his health) Aftronomy hopes for a better Drefs; But this Manual will not admit the Table of Equations, which you may find in Monsieur Huged's Herology, whereto you are referred.

Lastly, There is added a Table of the Right Ascension of the and a Table of the Right Ascension of the Stars of the greater Magnitude, that when any of them come into the Meridian, by substracting that of the from that of the Star (adding 24 hours, if need be) leaves

the hour of the night.

And there is an Excellent and useful Table the last of all, of 22 Stars, which here never

rise or set, and are constantly seen, which Table shews their right Ascentions and their time and Azimuth when they come under the Pole Star; therefore if you hang up a Thred and Plummet, and looking through a small hole, (to take away the Stars ray) observe when any of these Stars come with the Pole Star to that Perpendicular: If you substract the Right Ascension, from the hour of the Stars coming under the North Pole, you have the true time of the Night to a minute. Many other uses may be made of this Table, but there is not room here to set them down.

The Table of Right Ascensions of the is very exact to a second, to every degree of the Ecliptick; and because the North-Signs have the same Right Ascension with their respective degrees of the South-Signs 12 hours difference: The Table is contracted, and the common parts do answer two Columns: For finding the Part Proportional for the in minutes, the differences are set down to seconds, and may be supplied from the Table of Parts Proportional, it you enter the 10 differences under 6, as you did for the Log, under 10.

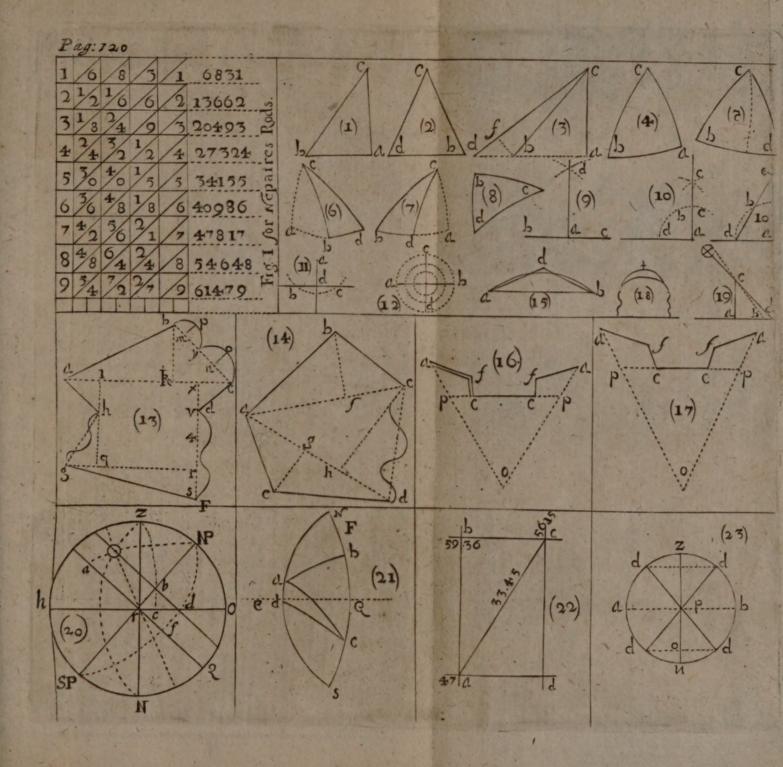
The Table of the Right Ascensions and Declinations of one hundred of the Principal fixed Stars are rectified to the year 1680, and are taken from Ricciolus his last Book. Entituled, Assertionomia Reformata, are more exact than any other extant, and have their Differences set by, for every ten years to rectifie them, and were thus done at the desire of that Worthy and Able Physician, and incomparable Mathematician, Sir Charles Scarborough, for the benefit

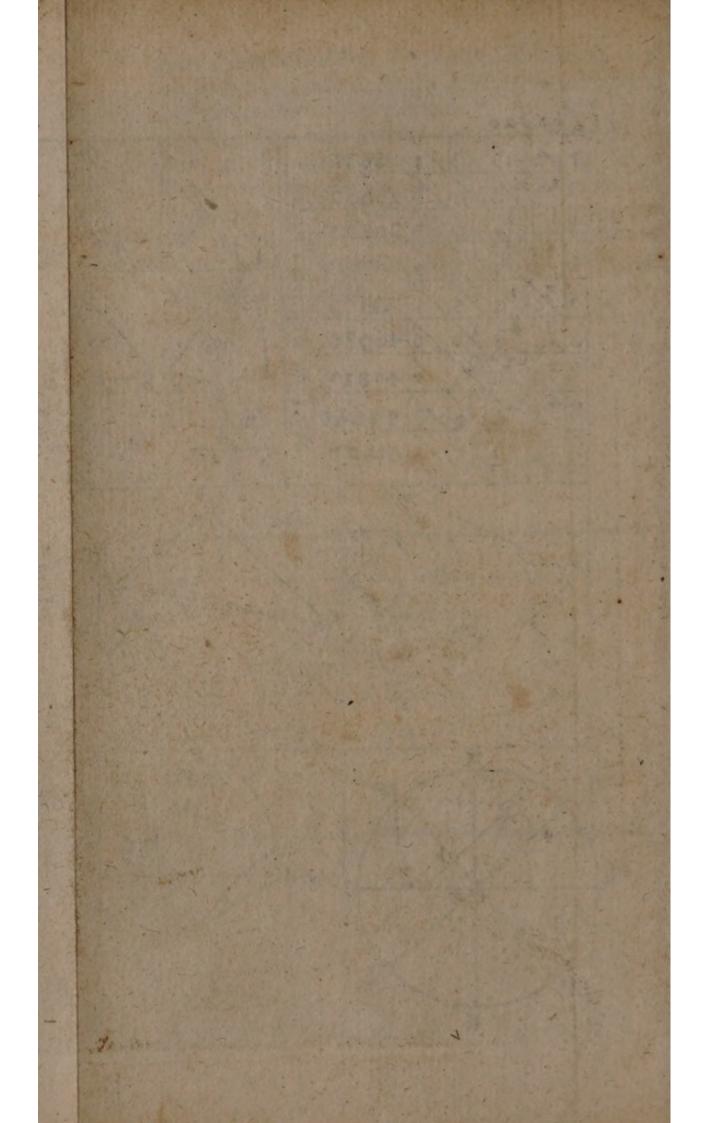
of the Industrious Seaman.

The last Table of the Stars about the North-Pole, are calculated for the Latitude of London, and for the year 1680. Any Artist may compute

pute them for other Latitudes, observing that all such Stars whose Right Ascentions are above 9°, 14′, 10′′, and under 8°′, 14′, 10′′′, pass the Meridian before they came under the Pole-Star, all the other Semicircles contrary. This Table will be welcome to those that make Observations of the Stars, to know the true time of the night, and to rectifie their Pendulum Warches by: To all whom let their Days and Nights be fortunate.

Soli Deo Gloria.





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006466	006894	007321	007748	008174	428
010724	011147	011570	011993	012415	424
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019116	019532	019947	020361	020775	416
023252	023664	024075	024486	024896	411
027350	027757	028164	028571	028978	1 408
031408	031812	032216	032619	033021	404
035430	035830	036229	036629	037028	401
039414	039810	040207	040602	040998	397
043362	043755	044148	044540	044931	393
047275	047664	048053	048442	048830	390
051152	051538	051924	052309	052694	386
054906	055378	055760	056142	056524	383
058805	059185	059562	059942	060320	379
062582	062958	063333	063708	054083	376
066326	066698	067071	067443	062814	373
070038	070407	070776	071645	071514	370
073718	074085	074451	074816	075182	366
077368	077731	078094	078457	078819	364
080987	081347	081707	082967	082426	361
084576	084934	085291	085647	086004	357
088136	088490	088845	089198	089552	355
091667	092018	092369	092721	093071	352
095169	095518	095866	096215	096562	349
098644	098989	099335	099681	100026	347
102091	102434	102777	103119	103462	344
105510	105851	106191	106531	106870	341
108903	109241	109578	109916	110253	338
112270	112605	112940	113275	112609	336
115610	115943	116276	116608	116940	332
118926	119256	119586	119915	120245	330
122215	122543	122871	123198	123525	328
125481	125806	126131	126456	126781	325
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138	139879	140194	140508	140822	141136
139	143015	143327	143639	143951	144263
140	146128	146438	146748	147058	147367
141	149219	149527	149835	150142	150449
142	152288	152594	152900	153205	153510
143	155336	155640	155943	156246	156549
144	158362	158664	158965	159266	159267
145	161368	151667	161967	162266	162564
1 146	164353	164650	164947	165244	165541
1 47	167317	167613	167908	168203	168497
148	170262	170555	170848	171141	171434
149	173186	173478	173769	174060	174351
150	176091	176318	176669	176939	177248
151	178977	179264	179552	179839	180126
152	181844	182129	182415	182699	182985
153	184691	184975	185259	185542	185825
154	187521	187803	188084	188366	189647
155	190332	190612	190892	191171	191451
156	193125	193403	193681	193959	194237
157	195900	196176	196453	196729	197005
158	198657	198932	199206	199481	199755
159	201397	201670	201943	202216	
160	204120	204391	204663	204934	205204
161	206826	207096	207365	207634	207904
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141450	141763	142076	142389	142702	314
144574	144835	145195	145507	145818	311
147676	147985	148294	148603	148911	309
1 50746	151063	151370	151676	151982	307
154815	154119	154424	154723	155032	305
156852	157154	-157457	157759	158061	303
159868	160168	160469	150769	161068	301
162863	163161	163459	163758	164055	298
165838	166134	166430	166726	167022	297
168792	169086	169380	169764	169968	295
171725	172019	172311	172603	172895	292
174641	174932	175222	175512	175802	290
177536	177825	178113	178401	178689	289
180413	180699	180986	181272	181558	287
183270	183555	183839	184123	184407	285
186108	186391	186674	186956	187239	283
188928	189210	189499	189771	190051	281
191730	192009	192289	192567	192845	279
195514	194792	195069	195345	195623	278
197281	197556	197832	198107	198382	276
200029	200303	200577	200850	201124	274
202761	203033	203305	203577	203848	272
205475	205746	206016	206286	206556	271
208173	208441	208701	208978	209247	269
219853	211121	211388	211654	211921	267
213518	213783	214049	214314	214579	266
216616	216430	216694	216957	217221	264
218798	219060	219323	219585	219846	262
221414	221675	221936	222196	222456	261
224015	224274	224533	224791	225051	260
225600	226858	227115	227372	227630	258
229170	229426	229682	229938	230194	257
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170	230449	230704	230959	231215	231470
171	232996	233250	233504	233757	234011
172	235528	235781	236033	236285	236537
173	238046	238297	238548	238799	239049
174	240549	240799	241048	241297	241546
175	243038	243286	243534	243782	244030
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184	264818	265054	265240	265525	265761
185	264172	267406	267641	267875	268110
186	269513	269746	269980	270213	270446
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188	274158	274389	274620	274850	275081
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192	283301	283527	283753	283979	284205
193	285557	285782	286007	286232	286456
194	287802	288025	288249	288473	288696
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196	292256	292478	292699	292920	293141
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198	296665	296884	297104	297323	297542
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201	303196	303412	303628	303844	304059
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1 204 1	1 309630 1	309843	310056	310260	310481

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234264	234517	234770	235023	235276	253
236789	237041	237292	237544	237795	252
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244277	244524	244772	245019	245266	247
246745	246991	247236	247482	247728	246
249198	249443	249687	249932	250176	244
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261263	261501	261738	261976	262214	238
263636	263873	264109	264345	264582	237
265996	266232	266467	266702	266937	235
268344	268578	268812	269046	269279	234
270679	270912	271144	271377	271609	233
273001	273233	273464	273696	273927	231
275311	275542	275772	276002	276232	230
277609	277838	278064	278296	278525	229
279895	280123	280351	280578	280806	228
282169	282395	282622	282849	283075	227
284431	284656	284882	285107	285332	226
286681	286905	287130	287354	287578	225
288920	289143	289366	289589	289812	224
291147	291369	291591	291831	292034	222
293363	293583	293084	294015	294246	221
295567	295787.	296007	296226	295446	220
297760	297979	298198	1298416	298635	219
299943	300160	300373	300595	300813	218
302114	302331	302547	302764	302980	217
304275	304490	304706	304921	305136	216
306425	306639	306854	307068	307282	215
308564	308778	308991	309204	309417	213
310693	310906	311110	311330	311742	212

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205	311754	311966	312177	312389	312600
206	313857	314078	314289	314499	314710
207	315970	316180	316390	3165.99	316809
208	318063	318272	318481	318689	318898
209	320146	320354	320562	320769	320977
210	322219	322426	322633	322839	323046
211	324282	324488	324694	324899	325105
212	326336	326541	326745	326950	327155
213	328380	328583	328787	328991	329194
214	330414	320617	350819	331022	331224
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220	342423	342620	342817	343014	343212
221	344392	344589	344785	344981	345178
222	346353	346549	346744	346939	347135
223	348305	348500	348694	348889	349083
224	350248	350441	350636	350829	351023
225	352183	352375	352568	352761	352954
226	354108	354301	354493	354685	354876
227	355026	356217	356403	356599	356790
229	357935	358125	358316	358506	358696
-	THE RESERVE OF THE PERSON NAMED IN	360025	360215	360404	360593
230	361728	361917	362105	362294	362482
231	363612	363800	363 988	364176	364363
233	367356	365675	365862	366049	366236
234	369216	369101	369587	367915	369958
235	3710 9	371253		- Automorphisms	371806
236	372912	371253	371437 373280	371622	373647
237	374748	374932	373200	375298	375481
238	376577	376759	376942	377124	377306
239	1378398	378580	378761	378952	379124

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	5130 3153		315760	210
317018 31	7227 3174	DESCRIPTION OF THE PARTY OF THE	317854	209
	9314 3195	A STATE OF THE PARTY OF THE PAR	319938	209
321184 32	1391 3215		322012	207
323252 32	3458 3236	55 323871	324077	106
	5511 3257		326131	205
327359 32	7563 32770		328176	201
329398 32	9601 3298		330211	203
331427 33	1630 3318	32 332034	332236	202
333447 33	3644 3338	59 335051	334253	202
335458 33	5658 3358	59 335059	336260	201
337459 337	7659 3378		348257	200
	9650 3398	19 340047	340246	199
CONTRACTOR OF THE PERSON NAMED IN COLUMN	1632 3418	30 342028	342225	198
	3606 34380	2 343999	344195	197
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	1410 35160	351795	351989	193
353147 353	3339 35353	32 353724	353916	193
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001	846 37602		376394	183
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379306 379	487 37966	8 379849	380030	181

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240	380211	380392	380573	380754	380934
241	382017	382197	382377	382557	382737
242	383815	383995	384174	384353	384533
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246	399935	391112	391288	391464	391641
247	392697	392873	393048	393224	393400
248	394452	394627	394802	394977	395152
249	395199	396374	396548	396722	396896
250	397940	398114	398287	398461	398634
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252	401400	401573	401745	401917	402089
253	403120	403297	403464	403635	403807
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256	408240	408410	408579	408749	408918
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259	413300	413467	413635	413802	413970
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262	418301	418467	418633	418798	418964
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264	421604	421768	421933	422097	422261
265	423246	423410	423573	423737	423901
266	424882	425045	425208	425371	425534
267	426511	426674	426836	426999	427161
268	428135	428297	428459	428621	428782
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271	432969	433129	433290	433450	433610
272	434569	434728	434888	435048	435207
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274	1 1 437751	1437909	438067	438226	1 438384

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384712 384891 385070 385249 385427 179 386499 386677 386856 387034 387212 178 380279 388456 388634 388811 388982 178 390051 390229 390405 399582 399758 177 391817 391993 392169 392345 392521 176 393575 393751 393926 394101 394176 176 395808 395501 395676 395850 396025 175 397808 397245 397418 397592 397766 174 398808 398981 399654 399327 399501 173 400538 400711 400883 401056 401218 173 40261 402433 402605 402777 402929 172 40588 405858 406029 406199 406370 171 407907 409257 409426 409595 409764 <td></td> <td>383097</td> <td>383277</td> <td></td> <td></td> <td>NO REPORT OF THE PARTY OF</td>		383097	383277			NO REPORT OF THE PARTY OF
385499 386677 386856 387034 387212 178 380279 388456 388634 388811 388982 178 390051 390228 390405 399582 399758 177 391817 391993 392169 392345 392521 176 393575 393751 393926 394101 394176 176 395326 395501 395676 395850 396025 175 39808 39881 399654 399327 399501 173 400538 400711 400883 401056 401218 173 403978 404149 404320 404492 404663 171 407391 407561 407731 407900 408070 170 409087 409257 409426 409595 409764 169 410777 410946 411114 411283 411451 169 414137 414305 414472 414639 414806 <td></td> <td></td> <td></td> <td>385249</td> <td></td> <td>STATE OF THE PARTY AND PERSONS ASSESSED.</td>				385249		STATE OF THE PARTY AND PERSONS ASSESSED.
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393575 393751 393926 394101 394176 176 395326 395501 395676 395850 396025 175 397060 397245 397418 397592 397766 174 398808 398981 399654 399327 399501 173 400538 400711 400883 401056 401218 173 402261 402433 402605 402777 402929 172 403978 404149 404320 404492 404663 171 405888 405858 406029 406199 406370 171 407391 407561 407731 407900 408070 170 409087 409257 409426 409595 409764 169 410777 410946 411114 411283 411451 169 414137 414305 414472 414639 414866 167 415808 415974 416141 416308 416474<	CONTRACTOR STATE OF THE PARTY O		392169		A CONTRACTOR OF THE PARTY OF TH	CO. Co
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398808 39981 399654 399327 399501 173 400538 400711 400883 401056 401218 173 402261 402433 402605 402777 402929 172 403978 404149 404320 404492 404663 171 405888 405858 406029 406199 406370 170 409087 409257 409426 409595 409764 169 410777 410946 411114 411283 411451 169 412460 412628 412796 412964 413132 168 414137 414305 414472 414639 414806 167 415808 415974 416141 416308 416474 167 417472 417638 417804 417970 418135 166 419129 419295 419460 419625 419791 165 422426 422590 422754 422918 423082 </td <td>AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IN COL</td> <td>395501</td> <td>395676</td> <td>395850</td> <td>396025</td> <td>175</td>	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 2 IN COL	395501	395676	395850	396025	175
400538 400711 400883 401056 401218 173 402261 402433 402605 402777 402929 172 403978 404149 404320 404492 404663 171 405688 405858 406029 406199 406370 170 40987 409257 409426 409595 409764 169 410777 410946 411114 411283 411451 169 412460 412628 412796 412964 413132 168 414137 414305 414472 414639 414806 167 417472 417638 417804 417970 418135 166 419129 419295 419460 419625 419791 165 420781 420945 421110 421275 421439 165 422426 422590 422754 422918 423082 164 427324 427486 427648 427811 427973 162 428944 429106 429268 429429 4295		- Contract Spanish Contract	397418	397592	397766	174
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277	412180	442637	442793	442950	443106
278	444045	444201	444357	444513	444669
279	445604	445760	445915	446071	446226
280	447158	447313	447468	447523	447778
281	448706	448861	449015	449170	449324
282	450249	450403	450557	450711	450865
283	451786	451940	452093	452247	452400
284	453318	453471	453624	453777	453930
285	454845	454997	455149	455302	455454
286	456366	456518	456670	456821	456973
287	457882	458033	458184	458336	458487
288	459392	459543	459594	459845	459995
289	460898	461049	461198	461348	461499
290	462398	462548	462597	462847	462997
291	463893	464042	464191	464340	464489
292	465383	455532	465680	465829	465977
293	466868	467016	467164	467312	467460
294	468347	468495	468643		468938
295	469822	469969	470116	470263	470410
296	471292	471438	471585	471732	471878
297	472756	472903	473049	473195	473341
298	474216	474362 475816	474508 475962	474653	474799
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305	484300	485863	486005	486147	486289
307	487138	487280	487421	487563	487704
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469085 469233 469380 469527 469675 147 470557 470704 470851 470998 471145 147 472025 472171 472318 472464 472610 146 473487 473633 473779 473925 474071 146 474944 475090 475235 475381 475526 146 476397 476542 476687 476832 476976 145 477844 477989 478133 478278 478422 145 480725 480896 481012 481156 481299 144 482159 482302 482445 482588 482731 143 483587 483730 483872 484015 484157 143 486430 486572 486714 486855 486997 142 487845 489386 488127 488269 488410 141 489255 489396 489537 489677 489818 141	The second second second	-	The second secon	PERSONAL PROPERTY AND ADDRESS	PRODUCTION CONTRACTOR AND ADDRESS.	468200	
470557 470704 470851 470998 471145 147 472025 472171 472318 472464 472610 146 473487 473633 473779 473925 474071 146 474944 475090 475235 475381 475526 146 476397 476542 476687 476832 476976 145 479287 479431 479575 479719 479863 144 480725 480896 481012 481156 481299 144 483587 483730 483872 484015 484157 143 485011 485153 485295 485437 485579 142 487845 487986 488127 488269 488410 141 489255 489396 489537 489677 489818 141	4690	85	469233	469380	469527	469675	147
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480725 480896 481012 481156 481299 144 482159 482302 482445 482588 482731 143 483587 483730 483872 484015 484157 143 485011 485153 485295 485437 485579 142 486430 486572 486714 486855 486997 142 487845 487986 488127 488269 488410 141 489255 489396 489537 489677 489818 141	4792	87	479431	479575	MATERIAL SECTION AND ADDRESS OF THE PARTY OF		
482159 482302 482445 482588 482731 143 483587 483730 483872 484015 484157 143 485011 485153 485295 485437 485579 142 486430 486572 486714 486855 486997 142 487845 487986 488127 488269 488410 141 489255 489396 489537 489677 489818 141	48072	25-	480896	481012	481156	481299	THE RESIDENCE OF THE PARTY OF T
483587 403730 483872 484015 484157 143 485011 485153 485295 485437 485579 142 486430 486572 486714 486855 486997 142 487845 487986 488127 488269 488410 141 489255 489396 489537 489677 489818 141	4821	59	482302	482445		482731	
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487845 487986 488127 488269 488410 141 489255 489396 489537 489677 489818 141	4864	30	486572	486714	486855	486997	THE RESERVE AND ADDRESS OF THE PARTY OF THE
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				489537	489677	489818	141
100//2 1 1	49066	SI	490801		491081		140

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310	491362	491502	491642	491782	491922
311	492760	492900	493040	493179	493319
312	494155	494294	494433	494572	494711
313	495544	495683	495822	495960	496399
314	496930	497068	497206	497344	497482
315	498311	498448	498586	498724	498862
316	499687	499834	499962	500099	500236
317	505056	501196	501333	501470	501607
318	502427	502564	502700	502837	502973
319	503791	503927	504063	504199	504335
320	505155	505286	505421	505557	505692
321	506505	506640	506775	506911	507046
322	507852	507991	508125	508260	508395
323	509295	509337	509471	508606	509740
324	510545	510679	510813	510947	511081
325	511883	512017	512150	512284	512417
326	513218	513351	513484	513617	513750
327	514548	514681	514813	514946	515079
328	515874	516006	516139	516271	516403
329	517196	517328	517460	517592	517724
230	518514	518645	518777	518909	519040
331	519828	519959	520090	520221	520352
332	521138	521269	521400	521530	521661
333	522444	522575	522705	522835	522966
334	523746	523876	524006	524136	524266
335	525045	525174	525304	525433	525563
336	526339	526468	526598	526727	526856
337	527630	527759	527888	528016	528145
338	528917	529045	529174	529302	529430
339	530200	530328	530456	530584	530712
340	531479	531607	531734	531862	531989
341	532754	532882	533009	533136	533263
342	534026	534153	534280	534407	534534
343	535294	535421	535547	535674	535800
1 344	1 536558	536685	536811	536937	537063

5	6	7 1	8	9 1	ID
492062	492201	492341	492481	492621	140
493458	493597	493737	493876	494015	139
494850	494589	495128	495267	495406	139
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497621	497759	497897	498035	498173	138
498999	499137	599275	499412	499550	138
500374	500511	500648	500785	500922	137
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505828	505963	506099	506234	506370	136
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509874	510008	510143	510277	510411	134
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512551	512684	512818	512951	513084	134
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517855	517987	518119	518251	518382	131
519171	519303	519434	519566	519697	131
520483	520614	520745	520876	521007	131
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523096	523226	523356	523486	523616	130
524396	524526	524656	524785	524915	130
525692	525822	525951	526081	526210	129
526985	527114	527243	527372	527501	129
528274	528402	528531	528660	528788	129
529559	529687	529815	529943	530072	128
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532117	532245	532372	532500	532627	128
533391	533518	533645	533772	533899	128
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535927	536053	536179	536306	536432	127
537189	1537315	537441	1537567	537693	1127

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345	537819	537945	538071	538197	538322
346	539076	53,202	539327	539452	539578
347	540329	540455	540580	540705	540830
348	541579	541704	541829	541953	542078
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350	544068	544192	544316	544440	544564
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352	546543	546666	546789	546913	547036
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357	552668	552790	552911	553033	553155
358	553883	554004	554126	554247	554368
359	555094	555215	555336	555457	555578
360	556303	556423	556544	556664	556785
361	557507	557627	557748	557868	557988
362	558709	558829	558948	559068	559188
363	559907	560026	560146	560265	560385
364	561101	561221	561340	561459	561578
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366	563481	563600	563718	563837	563955
367	564666	564784	564903	565021	565139
368	565848	565966	566084	566202	566320
369	567026	567144	567262	567379	5 7497
370	568202	568319	568436	568554	568671
371	569374	569491	569608	569725	569842
372	570543	570660	570776	570893	571010
373	571700	571825 572988	571942	572058	572174
374		-	573104	573220	573336
375	574031	574147	574263	574379	574494
376	575188	575303	575419	575534	575650
377	576341	576457	576572	576687	576802
378	577492 578639	578754	577722	578983	57795I 579097
379	570039	31-134 }	3,0000	2102021	2/2091

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1 2	38448	538574	538699	A Charles State of the		
	39703	539829	539954	538852	538951	126
	40955	541080	541205	541330	540204	125
	42203	542327	542452	542076	542701	125
	42447	543571	542696	543820	543944	1124
15	44688	544812	544939	545050	545183	-
	45925	546049	546172	546295	546419	124
15	47159	547282	547405	547529	547652	124
15	48389	548512	548635	548758	548881	123
15	49515	549739	549891	549984	550106	123
	50840	550962	551084	551206	551328	122
	52059	552181	552303	552425	552547	122
	53276	553398	553519	553640	553762	121
5	54489	554610	554731	554852	554973	121
	55699	555820	555940	555061	556182	121
	56905	557026	557146	557267	557387	120
	8018	558228	558349	558469	558589	120
10000	59308	559428	550548	559667	559787	120
1000	50504	560624	560743	560863	560982	119
THE REAL PROPERTY.	1698	561817	561936	562055	562174	119
	2887	563006	563125	563244	563362	119
56	4074	564182	564311	564429	564548	119
56	5257	565376	565494	565612	565730	1118
	6437	566555	566673	566791	556909	118
STATE OF THE PARTY.	7614	567732	567849	567967	568084	118
	8788	568905	569023	569140	560257	117
	9959	570076	570193	570309	570426	117
CONTRACTOR OF THE PARTY OF THE	1126	571243	571359	571476	571592	117
	2291	572407	-572523	572639	572755	116
-	3452	573568	573684	573800	573915	116
THE RESERVE	4610	574726	574841	574957	575072	116
	5765	575880	575996	576111	576226	115
57	6917	577032	577147	577262	577377	115
	8066	578181	578295	578410	578525	115
2/	9212	579326	579441	579555 1	579669	114
170	No. of Concession, Name of Street, or other Designation, or other	-	-	THE OWNER OF THE OWNER OWNER OF THE OWNER OW		Contract of the last

NI	1 0	1	2	3	4
380	579784	579898	580012	580126	580240
381	580925	581039	581153	581267	581381
382	582063	582177	582291	582404	582518
383	583199	583312	583425	583539	583652
384	584331	584444	584557	584670	584783
385	585461	585573	585686	585799	585912
386	586587	586700	586812	586925	587037
387	587711	587823	587935	588047	588160
388	588832	588944	589055	589167	589279
389	589950	590061	590173	590284	590396
390	591065	591176	591287	591398	591510
391	592177	592288	592399	592510	592621
392	593286	593397	593508	593618	593729
393	594392	594503	594613	594724	594834
394	595496	595606	595717	395827	595937
395	596597	596707	596817	596927	597037
396	597695	597805	597914	598024	598134
397	598790	598900	599009	599119	599228
398	599883	599992	600101	600210	600319
399	600973	601082	601190	601299	601408
400	602060	602168	602277	602386	602494
401	603144	603253	603361	603469	603577
402	604226	604334	604442	604550	604658
403	605305	605513	605550	605628	605736
404	605381	606489	606596	606704	606811
405	607455	607562	607669	607777	607884
406	608526	608633	608740	608847	608954
407	609594	609701	609868	609914	600021
408	610600	610767	610873	610979	611086
409	611723	611829	611936	612042	612148
410	612784	612890	61 2996	613101	613207
411	613842	613947	614053	614159	614264
412	614897	615003	615108	615213	615319
413	615950	616055	616160	616265	616370
14141	1617000	617105	617210	617315	617420

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5	0	271	0	9	<u>D</u>
580355	580469	580583	580697	580811	114
581494	581608	581722	581836	581950	114
582631	582745	582859	582972	583085	113
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586024	586137	586250	586362	586475	112
587149	587262	587374	587486	587599	112
588272	588384	588496	588608	583720	112
589391	589503	589615	589726	589838	112
590507	590619	590730	590842	590953	III
591621	591732	591843	591955	592066	III
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594945	595055	595156	595276	595386	III
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597146	597256	597366	597476	597586	110
598243	598353	598462	5 98 5 7 2	598681	110
599337	599446	599556	599665	599774	109
600428	600537	600646	600755	600864	109
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607991	608098	608205	608312	608419	107
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611192	611298	611405	611511	611617	106
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614370	614475	614681	614586	614792	106
616475	615529	615634	615740	615845	105
617524	617629	617734	617839	616895	105
1		7-//)4	0-1-37	0-7743	105

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	14		0	I	1 2	3	1 4
1	415		618048	618153	618257	618362	618466
1	416		619093	619198	619302	619406	619511
1	417		620136	620240	620344	620448	620552
1	418		621176	621280	621384	621488	621592
	419	П	622214	622318	622421	622525	622628
1	420	8	623249	623553	623456	623559	623663
ı	421		624282	624385	624488	624591	624695
	422		625312	625415	625518	625621	625724
1	423		626340	626443	626546	626648	626751
-	424		627366	627468	627571	627673	627775
ı	425		628389	628491	628593	628695	628797
	426		629410	629511	629613	629751	629817
200	427	91	630428	630530	630631	630733	630835
	428	91	631444	631545	631647	631748	631849
1	429	1	632457	632559	632660	632761	632862
1	430	91	633468	633569	633670	633713	633872
ı	431	81	634477	634578	634679	634779	634880
ı	432	81	635484	635584	635685	635785	635886
Ĭ	433		636488	636588	636688	636789	636889
1	434		637490	637590	637690	637790	637890
H	435	1	638489	638589	638689	638789	638888
H	436		639486	639586	639686	639785	639885
ı	437	1	640481	640581	640680	640779	640879
ı	438	1	641475	641 573	641672	641771	641871
1	439	1	642465	642563	642662	642761	
1	440	1	643453	643551	643650	643749	643847
1	441	1	644439	644537	644636	644734	644832
1	442	1	645422	645521	645619	645717	645815
1	443	1	646404	646502	646600	646698	646796
	444	1	647383	647481	647579	647676	647774
	445	1	648360	648458	648555	648653	648750
-	446		649335	649432	649530	649627	649724
-	447		650308	650405	650502	650599	650696
	448		651273	651375	651472	651569	651666
1	449 1		552246	652343	652440	072370 1	0,2033

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518571	618676	618780	618884	618989	105
519615	619719	619824	619928	620032	104
520556	620760	620864	620968	621072	104
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524798	624901	624004	625107	625209	103
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526853	626959	627058	627161	627253	103
527878	627980	628082	628185	628287	102
528900	629002	629104	629206	629308	102
29919	630021	630123	630224	630326	102
30936	631038	631139	631241	631342	102
31951	632052	632153	632255	632356	IOI
532963	633064	633165	633266	633367	IOI
33973	634074	634175	634276	634376	100
534981	635081	635182	635283	635383	100
35986	636087	636187	636288	636388	100
36989	637089	637189	637289	637390	100
37990	638090	638190	638289	638389	99
38988	639088	639188	639287	638387	99
39984	640084	640183	640283	640382	99
40978	641077	641177	641276	641375	99
41970	642069	642168	642267	642366	99
42959	643058	643156	643255	643354	99
43946	644044	644143	644242	644340	98
44931	645029	645127	645226	645324	98
45913	646011	646109	646208	646306	98
46894	646992	647089	647187	647285	98
47872	647969	648067	648165	648762	98
48848	648945	649043	649140	649237	97
149821	649919	650016	650113	650210	97
50794	650890	650987	651084	651181	97
52630	651859	651956	652053	652152	97
22030 1	052020	652923	653019	653116	97

IN	10	1	2	3	4
450	653212	653309	653404	653502	653598
451	654176	654273	654369	654465	654562
452	655138	655234	655331	655427	655523
453	656098	656194	656290	656386	656481
454	657054	657151	657247	657343	657438
455	658011	658107	658202	658298	658393
456	658965	659060	659155	659250	659346
457	659916	660011	660106	660201	660296
458	660865	660960	661055	661150	661245
459	661813	661907	662002	662096	662191
460	662758	662852	662947	663041	663135
461	663701	663795	663889	663983	664078
462	664642	664735	664830	664924	665018
463	665581	665675	665768	665862	665956
464	666518	666612	666705	666799	666892
465	667453	667546	667640	667733	667827
466	668386	668479	668572	668665	668758
457	669317	669410	669503	669595	669689
468	670246	670339	670431	670524	670617
469	671173	671265	671358	671451	671543
470	672098	672190	672283	672375	672467
471	673021	673113	673205	673297	673390
472	673942	674034	674126	674218	674310
473	674861	674953	675045	675136	675228
474	675778		675961	676053	676145
475	676694	676785	676876	676968	677059
476	677607	677698	677789	677881	677973
1477	678518	678609	678700	678791	678882
478	689226	679519	680517	679700	679791
479	680335	SECURITY SECURITY AND ADDRESS OF THE PARTY AND		The second second	
480	681241	681332	681422	681513	681603
481	682145	682235	682326	682416	682506
482	683047	683137	684127	684217	683407
484	684845	684935	685025	685114	685204
14-4	1004040	1004755	00,02)	007114	00,204

5	16	1 7	8	191	D
653695	653791	653888	653984	654080	97
654658	654754	654850	654946	655042	95
655619	655714	655810	655906	656002	1.96
656577	656673	656769	656860	656950	96
657534	657629	657725	657820	657916	96
658488	658584	658679	658774	658870	95
659441	659536	659531	659726	659821	95
660391	660486	660581	660676	660771	95
661339	661434	661529	661623	661718	94
662285	662380	662474	662569	662663	94
663230	663324	663418	663512	663607	94
664172	664266	664360	664454	664548	94
665112	665206	665399	665393	665487	94
666086	666143	666237	666331	666424	94
666986	667079	667173	667266	667359	94
667920	668013	668106	668199	668293	94
668852	668945	669038	669131	669224	94
669782	669874	669667	670060	670153	93
670710	670802	670895	670988	671080	93
671636	671728	671821	671913	672005	93
672560	672652	672744	672836	672929	93
673482	673574	673666	673758	673850	92
674402	674494	674586	674577	674769	92
675320	675412	675503	675595	675687	92
THE RESERVE THE PARTY NAMED IN	Contractor Separate Separate	676419	676511	676602	91
677150	677242	677333	677424	677516	91
678063	678154	678245	678336	678427	91
679882	679064	679155	679246	679337	91
680789	679973	680063	680154	680245	91
Marie Contract of the last of	681784	70-0-	The second secon		91
681693	682686	681874	681964	682055	90
683497	683587	682777	683767	682957	90
684396	184486	684576	684666	684756	90
685294	685383	685473	685563	685652	90
	र्वा विष्	74/3	17.21		1 90

N	10	I	, 2	3	4
485	685742	685831	685921	685010	686100
485	686536	686726	686815	686904	686994
487	687529	687618	687707	687796	687885
483	688420	688599	688598	688687	688776
489	689309	689398	689486	689575	685664
490	690196	690285	690373	690462	690550
491	691081	691170	691258	691342	691435
492	691965	692053	692142	692237	692318
493	692847	692935	693023	693111	693199
494	693727	693815	693903	693941	694078
495	694605	694693	694781	694868	694956
496	695482	695569	695657	695744	695832
497	696356	696445	696531	696618	696706
498	697229	697317	697404	697491	697578
499	698101	698188	698275	698362	698449
500	698970	699057	699144	799231	699317
501	699835	699924	700011	700098	700184
502	700704	700790	700877	700963	701049
503	701 68	701654	701741	701827	701913
504	702430	702517	-	702689	702775
505	703291	703377	703463	703231	703635
506	704151	704236	704322	704408	704494
507	705008	705094	706035	705265	705350
509	706718	706803	706888	706974	707059
510	707570	707655	707740	707826	707911
511	708421	708506	708591	708676	708761
512	709270	709455	709440	709524	709609
513	710117	710202	710287	710371	710456
514	710963	711048	711132	711217	711501
515	711807	711892	711976	712060	712144
516	712650	71274	712818	712902	712986
517	713491	713575	713659	713742	713826
518	714330	714414	714497	714581	714665
1519	715167	715251	715335	715415	715501

5	6	7	8	0 1	IDI
685189	685279	10/0/8	707.0	7	THE RESERVE TO
687083	687172	685358	686458	686547	89
637975	688064	688153	687351	687440	89
688865	688953	68 7042	689131	689220	89
689753	689811	639930	690019	690107	89
690539	690727	690816	690905	690993	
691524	691612	691700	691789	691877	89
692405	692494	692583	692571	692759	88
693287	693375	693463	693551	693639	88
694166	694254	694342	694430	694517	88
695011	695131	695219	695307	695394	88
695919	696007	695091	695182	696270	87
696793	696830	696968	697055	697142	87
6976:5	697752	697839	697926	698014	87
698535	698622	6.98709	698706	698883	87
699404	699491	699578	699664	699751	87
700271	700358	700444	700531	700617	87
701136	701222	701309	701395	701482	86
701999	702086	702172	702258	702344	86
702861	702947	703033	703119	703205	86
703721	703807	793893	703979	704065	86
704579	704665	704751	704837	704922	86
705436	705522	705607	705693	705778	86
707144	706376	705462	706547	706632	85
707996	707229	707315	707400	707485	85
708846	703931	708166	708251	708336	85
709691	709779	709015	709100	709185	85
710540	710525	710710	710794	710033	85
711385	711469	711554	711639	711722	85
712229	712313	712397	712481	712566	
713070	713154	713238	713323	713407	84
713910	713994	714378	714162	714245	84 84
714749	714833	714916	715000	715084	84
715586	715669	715753	715836	715920	84
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-	-	-	Management of the Parks	Special Street, Street, Service, Servic	THE PERSON NAMED OF TAXABLE PARTY.
N	0	I	2	3	4
520	716003	716087	716170	716254	716337
521	716838	716921	717004	717088	717171
522	717671	717754	717837	717920	718003
523	718502	718585	718668	718751	718834
524	719331	719414	719497	719580	719663
525	720159	720242	720325	720407	720190
526	720986	721068	721151	721233	721316
527	721811	721893	721975	722058	722140
528	722633	722716	722798	722881	722963
529	723406	723538	723620	723700	723784
530	724276	724358	724440	724522	724603
153I	725094	725176	725258	725340	725422
532	725912	725993	726075	726156	726238
533	726727	726809	725890	726972	727053
534	727541	727623	727704	727785	727866
535	728354	728435	728516	728597	728673
536	729165	729246	729327	729408	729481
537	729974	730055	730136	730217	730298
538	730782	730863	730944	731024	731105
539	731589	731669	731750	731830	731911
540	732394	732474	732555	732635	732715
541	733197	733278	733358	733438	733518
542	733899	734079	734159	734240	734320
543	734800	734880	734960	735040	735120
544	735599	735679	735759	supported planters	735918
545	736397	736476	736556	736635	736715
546	737193	737272	737352	737431 738225	737511
547	737987	738067	738939	739018	738305
E BROSSESSESSES	OF RESIDENCE OF STREET, STREET	739651	739731	739810	739097
549	739572	The same of the sa	-	The same transmitted in con-	THE PERSON NAMED IN COLUMN 1
550	741152	740442	740521	740599	740678
551 552	741939	742018	742096	742175	741467
553	742725	742804	742882	742961	743039
554	743510	743588	743667	743745	743823
1	No. of London		, 13.7	743747	143-23

5	6	7	8	9 1	DI
716421	716504	716588	716671		83
717254	717338	717421	717504	716754	83
718086	718169	718253	718336	718419	83
718917	719000	719083	716165	719218	83
719745	719828	719911	719994	720078	83
720573	720655	720738	720821	720903	83
721343	721481	721563	721646	721728	82
722222	722305	722387	722469	722552	82
723045	723127	723209	723291	723374	82
723866	723948	724030	724112	724194	82
724685	724767	724849	724931	725013	82
725503	725584	725667	725748	725830	82
726320	726401	726483	725564	726646	82
727134	727216	727297	727379	727460	81
727948	728029	728110	728191	728273	81
728759	728841	728922	729003	729034	81
729570	729651	729733	729813	729893	81
730378	730459	730549	730621	730702	81
731186	731266	731347	731428	731508	81
731991	732072	732152	732233	732313	81
732789	732976	732956	733037	733117	80
733598	733679	733759	733139	733919	80
734400	734480	734560	734640	734720	80
735199	735279	735359	735439	735519	80
THE RESERVE THE PARTY NAMED IN	736078	736157	736237	736317	80
736795	736874	736954	737034	737113	80
738384	737670	737749	737829	737908	79
739177	738463	738543	738522	738,701	79
739968	739256	739335	1739414	739493	79
740757	740836	740126	740205	740284	79
741546	741624	740915	740994	741073	79
742332	742411	741703	741782	741860	79
733118	743196	742489	742568	742647	79
743902	743980	744058	743353	743431	78
-	11177	1440)0		744215	78

INI	0 1	I	2 1	3	1
555	741293	744371	744449	744528	744606
556	745075	745153	745231	745309	745387
557	745855	745933	746011	746089	746167
558	746634	746712	745790	746868	746945
559	747412	747489	747567	747645	747722
1560	748818	748266	748343	748421	748498
561	748963	749040	749118	749195	749272
562	749736	749814	749891	749968	750045
563	750508	750585	750663	750740	750817
564	751279	751356	751433	751510	751587
565	752048	752125	752202	752279	752356
566	752816	752893	752970	753047	753123
567	753583	753660	7537:6	753813	753889
568	754348	754425	754501	754578	754654
569	755112	755189	755255	755341	755417
570	755875	755951	756027	756103	756179
571	756636	756712	756788	756864	756940
572	757395	757472	757548	757624	757700
573	758155	758230	758305	758382	758453
574	758912	-	759063	759139	759214
575	7:9668	759743	759819	759894	759970
576	760422	760498	760573	760649	760724
577	761176	761251	761326	761402	761477
578	761928	762754	762829	762904	762978
579	762679	Name of Street, or other Designation of the last of th	763578	763653	763727
580	763428	763503	764326	764400	764475
581	764176	754998	765072	765147	765221
583	764923	765743	765818	765892	765956
584	766413	766487	766561	766636	766710
585	767156	767230	767304	767379	767453
586	767898	767972	768046	768120	768194
587	768638	768712	768786	768860	768934
588	769377	769451	769525	769599	769673
589	770115	770189	770263	770336	770410
15091	7/0115	770109	1 //0203	110330	7704.0

- I	561	7 1	8 1	9	D
511651	744760		711010		78
744684	744762	744840	744919	744997	78
746245	746323	746401	746479	746556	78
747023	747101	747179	747256	747334	78
747800	747877	747955	748033	748110	78
748576	748653	748731	748808	748885	77
749350	749427	749504	749582	749659	77
750123	750200	750277	750354	750431	77
750894	750971	751048	751125	751202	77
751664	751741	751818	751895	751972	77
752433	752509	752586	752563	752740	77
753200	753277	753353	753430	753506	77
753966	754042	754119	754195	754272	77
754730	754807	754883	754960	755036	76
756494	755570	755646	755722	755799	76
756256	756332	756408	756484	756560	76
757016	7.57092	757168	757244	757320	76
757775	757851	757927	758003	758079	76
758533	758609	758585	758761	758836	76
759290	759366	759441	759517	759592	-
760045	760121	760196	760272	760347	75
760799	760875	760950	761025	761101	75
761552	761627	761702	761778	761853	75
762303	762378	762453	762529	763353	75
763053	A DESCRIPTION OF THE PERSON NAMED IN		764027	764101	100.00
763802	763877	763952	764774	764848	75
754550	765370	765445	765519	765594	75
765296	766115	766190	765264	766338	74
766784	766859	766933	767007	767082	74
767527	767601	767675	757749	767823	74
768268	768342	768416	768490	768564	74
769008	769032	769155	769230	769303	74
769745	769820	769894	769968	770042	74
770484	770557	770631	770705	770778	74
The second second second	Mary and the last of the last	Name of Street, or other Designation of the Owner, where the Parket of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, where the Owner, which is the	The same of the sa		

INI	10	I	2	1 3	4
590	770825	770926	770999	771073	771146
591	771587	771661	771734	771808	771881
592	772322-	772395	772468	772542	772615
593	773055	773128	773201	773274	773348
594	773786	773850	773933	774006	775079
595	774517	774590	774663	774736	774809
596	775246	775319	775392	775265	775338
597	775974	776047	776120	776193	776265
598	776701	776774	776846	776919	776992
599	777427	777499	777572	777944	777717
600	778451	778224	778296	778368	778441
601	778874	778947	779019	779091	779163
602	779596	779669	779741	779813	779885
603	780317	780389	780461	78 533	780905
604	781037	781109	781181	781253	781324
605	781755	781827	781899	781971	782042
606	782473	782544	782616	782688	782759
607	783189	783260	783332	783403	783475
608	783904	783975	784046	784118	784139
609	784617	784689	784760	784831	784902
610	785330	785401	785472	785543	785615
611	786041	786112	786183	786254	786325
612	786751	786822	786893	786964	787035
613	787460	787531	787602	787673	787744
614	788168	789239	788310	788381	788451
615	788875	788946	789016	789087	789157
616	789581	789651	789722	789792	789863
617	790285	790356	790426	790495	790567
618	790988	791059	791129	791199	791269
619	791691	791761	791831	791901	791971
620	792392	792462	792532	792602	792672
621	793092	793162	793231	793301	79337I
622	793790	793860	793930	794000	794070
623	794488	794558	794627	794697	794767
1 624	795185	795254	795324	795393	795463

5 1	6 1	7 1	8	9 11	N
771220	771293	771367	771440	771514	74
771955	772028	772102	772175	772248	73
772688	772762	772835	772908	772981	73
773421	773494	773567	773640	773713	73
774152	774225	774248	774371	774444	73
774882	774955	775028	775100	775173	73
775610	775683	775756	775829	775902	73
776338	776411	7.76483	776556	776629	73
777064	777137	777209	777282	777354	73
777739	-777862	777934	778006	778079	72
778513	778585	778658	778720	778302	72
779236	779308	779380	77,9452	779524	72
779957	770029	780101	780173	780245	72
780977	780749	780821	780893	780965	72
781306	781468	781540	781612	781684	72
782114	782186	782258	782329	782401	72
782831	782902	782974	783046	783117	72
783545	783618	783689	783761	783832	71
784261	784332	784403	784475	784546	71
784974	785045	785116	785187	785259	71
785686	785757	785828	785899	785970	71
786395	786467	786538	786609	786680	71
787106	787177	787248	787319	787399	71
787815	787885	787956	788027	788098	71
788522	788593	788663	788734		71
789228	789299	789369	789410	739510	71
789933	790004	790074	790144		70
790537	790707	790777	790848	792918	70
791340	791410	79140	791550	791620	70
792041	792111	792181	792252	792322	70
792742	792812	792882	792953		70
793411	794511	793581	793651	793721	70
794139	791209	794279			70
794833	794906			795118	1 70
1 795532	795602	795672	795741	1795810	11.70

IN:	1 0	1	2	2	
129	-		-	3	4
625	795880	795949	796019	796088	796158
627	796574	7.96644	796713	796782	796852
623	797268	797337	797406	797475	797545
629	7,8551	798720	798398	798858	798236
630	799341	799409	799478	799547	The second second second second
631	800029	800098	800167	800236	799616
632	800717	800786	800854	800923	800992
633	801404	801472	801541	801608	801678
634	802089	802158	802226	802295	802363
635	802774	802842	802910	802979	803047
636	803457	803525	803594	803662	803730
637	804139	804203	804276	804344	804412
638	804821	804889	804957	805025	805093
639	805501	805569	805637	805705	805773
640	806180	806248	806316	806384	806451
641	806858	806926	806993	807061	807129
642	807535	807603	807670	807738	807805
643	808211	808279	808346	808414	808481
644	808886	808953	809021	809088	809156
645	809560	809627	809594	809762	809829
646	810233	810301	810367	810434	810501
647	810904	810971	811039	811106	811173
648	811575	811642	811709	8117,6	811843
649	812245	812312	812379	812445	812512
650	812913	812980	813047	813114	813181
651	813581	813648	813714	813731	813848
652	814248	814314	814381	814447	814514
653	814913	814980	815046	815113	815179
654	815578	815644	815711	815777	815843
655	81:241	816308	816374	816440	816506
656	815904	816970	817036	817102	817169
657	817565	817631	817698	817764	817830
659	818885	818292	818358	818424	818490
and the same of	010000	818951	819017	819083	819149

5	6	7	8	9 1	D
796227	796297	796366	796436	796505	69
796921	796990	797060	797129	797198	69
797614	797683	797752	797821	797850	69
798305	798374	798443	798513	798582	69
798996	799065	799134	799203	799272	69
799685	799754	799823	799892	799961	69
800373	800442	800511	800580	800648	69
801061	801129	801198	801265	801335	69
801747	802500	802568	802537	802705	68
803116	803184	803252	803321	803389	68
803798	803867	803935	804003	804071	68
804480	804548	804616	804685	804753	68
805161	805229	805297	805365	805433	68
805840	805908	805976	856044	806112	68
806519	806587	806655	806722	805790	68
897197	807264	807332	807400	807467	68
807873	807941	808008	808076	808143	68
808548	808616	808684	808751	808818	67
809223	809290	809358	809425	809492	67
809896	809964	810031	810098	810165	67
810569	810636	810703	810770	810837	67
811240	811307	811374	812111	811508	67
81257)	812646	812713	812780	812847	67
813247	813314	813381	813448	813514	66
81,914	813981	814048	814114	814181	66
814581	814647	814714	814780	814847	66
815246	815312	815379	815445	815511	66
815910	815976	816015	816109	1816175	66
816573	816639	816705	816771	1816838	66
817235	817301	817367	817433	817499	66
817896	817962	818028	818094	818160	65
818556	818622	818588	818754	818319	66
819215	819281	819347	1819412	1819478	1 66 1

INI	10	1	2	2 1	
	0.000	9.44.0	-	9	4
660	819544	819610	819676	819741	819807
662	820858	820924	820333	820399	820464
663	821514	821579	821645	821710	821120
664	822168	822233	822299	822364	821776
665	822822	822887	822952	823018	823083
666	823474	823539	825605	823670	823735
667	824126	824101	824256	824321	824386
668	824777	824842	824907	824972	825036
669	825426	825491	825556	825621	825686
670	826075	826140	8.26204	826269	826334
671	826723	826787	826852	825917	826981
672	827369	827434	827499	827563	827608
673	828015	828080	828144	828209	828273
674	828660	828724	828789	828853	828918
675	829334	829368	829432	829497	829561
676	829947	830011	830075	830139	830204
677	830589	830653	830717	830781	, 830845
678	831230	831294	831358	831422	831486
674	831870	831934	831998	832062	832126
680	832509	832573	832636	832700	832764
681	833147	833211	833275	833338	833402
682	833784	833848	833912	833975	834039
684	834401	835120	835183	834611	834675
685	The Real Property lies and the least tent to the least tent to the least tent to the least tent to the least tent tent tent tent tent tent tent te	A COMMENTAL PROPERTY AND ADDRESS OF THE PARTY	835817	835881	835310
686	83969I 836324	835754 836386	836451	836514	835944
687	836957	837020	837083	837146	837209
688	837588	837652	837715	837778	837841
689	838219	838282	838345	838408	838471
690	838849	838912	838975	839038	839101
691	839478	839541	839604	839667	839729
692	840106	840169	840232	840295	840357
693	840733	840795	840859	840921	840984
694	1 841359	1841422	841485	841547	841610

The second	11/2/2019		- Alexander		T
5	6	7 1	8	9	D
819873	819939	820004	820070	820136	66
820530	820,96	820561	820727	820792	66
821186	821251	821317	821382	821448	66
821841	821906	821972	822037	822103	65
822495	822560	822526	822691	822756	65
823148	823213	823279	823344	823409	65
823800	823865	823930	823996	824061	65
824451	824516	824581	824646	824771	65
825501	825166	825231	825296	825361	65
825751	825815	825880	825945	826009	65
826399	826464	826523	826593	826658	65
827046	827111	827175	827240	827305	65
827692	827757	827821	827886	827951	65
828338	828402	828867	823531	828596	64
828982	829046	829111	829175	829240	64
829625	829590	829754	829818	829882	64
830268	830332	830396	830460	830525	64
830909	830973	831037	831102	831806	64
831550	831614	831678	831742	832445	64
832189	832253	832317	-	833083	64
832828	832892	832956	833019	833721	64
833466	833530	833593	833657	834357	64
834103	834166	834230	834929	834993	64
834739	834702	835500	835564	835627	63
835373	835437	836134	836197	83 261	63
836007	836071	836767	836830	836894	63
836641	836704	837399	837461	837525	63
837273	837969	838030	838093	838156	63
838534	838597	838660	838723	838786	63
839164	839237	839289	839352	839415	63
839792	839855	839918	839981	840043	63
840420	840482	840545	840608	840571	63
841046	841109	841172	841234	841297	63
841672	841735	841797	841860	841922	1 631
The same of the same of	AND AND A STATE OF	ALL PROPERTY AND	THE PERSON NAMED IN COLUMN	-	-

INI	101	I	2	3 1	4
695	841985	842047	842110	842172	842235
696	842609	842572	812734	842796	842859
697	843233	843295	843357	843420	843482
698	843855	843918	843980	844042	844104
699	844477	844539	844601	844664	844726
700	845098	845160	845222	845284	845346
701	845718	845780	845842	845904	815966
702	846337	846399	846461	846523	846585
703	846955	847017	847079	847141	847202
70+	847573	847634	847696	847758	847819
705	848189	848251	848312	848374	848435
705	848805	848866	848928	848939	819051
707	849419	849481	849542	849604	819565
708	850033	850095	850156	850217	850279
709	850546	850707	850769	850830	850891
710	851258	851319	851381	851442	851503
711	851869	851931	851992	852053	852114
712	852480	852541	852602	852663	852724
713.	853089	853150	853211	853272	853333
714	853698	853759	853820	853881	853941
715	85,4306	854357	854428	854488	854549
716	854913	854974	855034	855095	055156
717	855519	855580	855540	855701	855761
R. DOMESTICKED	856124	856185	856245	856306	856366
719	The Sales of Sales and Sal	856789	856850	856910	856970
720	857333	857393	857453	857513	857574
722	857935	857995	858056	858116	858176
723	858537	858597	858557	858718	858778
724	859739	859799	859258	859318	859278
725	860338	860398	860458	860518	859978
726	860937	860996	861056	861116	860578
727	861534	861594	861654	861714	861773
728	862131	862191	862851	862310	862370
729	1862727	862787	862847	862906	862966
-	Sansard house and			Contract of the last of	

5 1	6	7	8 1	9 1	INI
842297	842360	842422	842484	842547	62
842921	842983	843046	843108	843170	62
843544	843606	843669	843731	843793	62
844166	841229	844291	844353	844415	62
844788	844850	844912	844974	845036	62
845408	845470	845532	845594	845656	62
846028	846090	846151	846213	846275	62
846646	846708	846770	846832	846894	62
847263	847325	847388	847449	847511	62
847881	847943	The second second	Company of the Company	040127	62
848497	848559	848620	848682	848743 849358	61
849112	849174	849849	84,297	849972	61
849725	850401	850462	850524	850585	61
850952	851014	851075	851136	851197	61
851564	851625	851686	851747	851809	61
852175	852236	852297	852358	852419	61
852785	852846	852907	852968	853029	61
853394	853455	853516	853576	853637	61
854002	854063	854124	854184	854245	61
854610	854670	854731	854792	854852	61
855216	A STATE OF THE REAL PROPERTY.	1855337	855398	855459	61
855822	1000	855943	855003	856064	61
856427	856487	856548	856608	856668	60
857031	857091	857151	857212	857272	60
857634	857694			857875	60
858236	1000			858477	60
858838	10	10	THE REAL PROPERTY AND ADDRESS.	THE REPORT OF THE PARTY OF THE	60
859439		10			60
850038	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 0000		60
850637					60
861236	1000	THE RESERVE OF THE PERSON NAMED IN		The second secon	60.
861833	10 - 0	I EULA IGN TOURS	1011	0 0 0 000	1 60
862430	1011-10	100	101	100	60
1 00302	, , , , , ,	1 203-44	A CONTRACTOR	1.03203	A STATE OF THE PARTY OF

IN	11 0	I	2	1 -2	4
730	863323	863382	863442	863501	863561
731	863917	863977	854036	864069	864155
732	864511	864570	854630	864689	864748
733	865104	865163	865222	865282	865341
734	865696	865755	865815	865873	865933
735	866287	866346	866405	865465	866524
736	866878	866937	866495	867055	867114
737	867467	867526	867585	867644	867703
738	868058	868115	868174	868233	868292
739	868644	868703	868762	868821	868879
740	869232	859290	869349	859408	869466
741	869818	869877	869935	869994	870053
742	870404	870462	870521	870579	870638
743	870989	871047	871106	871154	871223
744	871573	871631	871690	THE RESIDENCE PROPERTY.	-
745	872156	872215	872273 872855	872332 872913	872389
746	872739 873321	872797	873437	873495	872972 873553
748	873902	873379	874018	874076	874134
749	874482	874540	874398	874656	874714
750	875061	875119	875177	875235	875293
751	875640	875698	875756	875813	875871
752	876218	876276	876333	876391	876449
753	876795	876853	876910	876968	877026
754	877371	877429	877488	877544	877602
755	877947	878004	878052	878119	878177
756	878522	878579	878637	878694	878751
757	879095	879153	879211	879268	879325
758	879669	879736	879784	879841	879898
759	880242	880299	880356	880413	880471
760	880814	880871	880928	880985	881042
761	881385	881442	881499	881556	881613
762	881955	882012	882069	882126	882183
763	882524	882581	882638	882695	882752
764	1883093	883050	883297 1	883366 1	883321

5	6 1	7	8	9	ID
863620	863680	863739	863798	863858	59
864214	864274	864333	864392	864452	59
864808	864867	864926	864985	865045	59
865400	865459	865518	855578	865637	59
865692	866051	866110	866169	866228	59
866585	866642	866701	866760	866819	59
867173	867232	867291	857350	867409	59
867762	867821	867880	857939	867997	59
868350	868409	868469	868527	868586	59
868938	858997	859056	869114	869173	59
869525	869584	869642	869701	859760	59
870111	870170	870228	870287	870345	59
870696	870795	871393	870872	870930	58
871865	871339	871981	872040	871515	58
Proposition in which the Parket	872506	872564	872622	-	58
872448 873030	873088	873146	873291	872581	58
873611	873669	873727	873785	873843	58
874192	874250	874308	874366	874424	58
874772	874830	874887	874945	875003	58
875351	875409	875466	875524	875582	58
875929	875987	876044	876102	876160	58
876506	876564	876622	876680	876737	58
877083	877141	877198	877256	877314	58
877659		877774		877889	
878234	878292	878349	878407	878454	57
878809			878981	879038	57
879383		879497	879555	879612	57
879956	880013	880070		880185	
880528			The second second	The second name of the second	
881099	881156	881213		881328	57
881670		881784		881898	57
882240	882297		882411	883468	57
882809	883434		883548	883036	57
0935/	1 003434	1 403471	1 003740	1 003003	

IN	110	1	2	1 3	1 4
765	883661	883718	833775	883832	893888
766	884229	884285	1 884342	884399	884455
767	884795	-884852	884909	884965	085022
768	835361	885418	005474	085531	885587
769	885925	885983	886039	886097	886155
770	886491	886547	886604	885660	886716
771	887054	887111	887167	887223	887280
772	887617	887673	887730	887786	887842
773	888179	888236	888292	888348	888404
774	888741	838797	The state of the last of the l	888909	888964
775	889302	889358	889414	889470	889526
776	889862	889918	890533	890589	890086
777	890980	891035	891091	891147	890644
779	891537	891593	891549	891705	891760
780	892095	892150	892206	892262	892317
781	892551	892707	892762	892818	892873
782	893207	893262	893318	893373	893424
783	893762	893817	893873	893928	893984
784	894316	894371	894427	894482	894538
785	894870	894925	894980	895036	895091
786	895422	895478	895533	895588	895643
787	895975	896030	896085	896140	896195
788	896526	896581	896636	896691	896747
784	897077	897132	897187	897243	897297
790	897627	897682	897737	897792	897847
791	898176	898231 898780	898286	898341	898396
792	898725	8 19328	899383	899890	898944
793	899273	899875	899930	899437	899492
794	900367	900422	900476	900531	900586
795	900307	900968	901022	901077	900300
797	901458	901513	901567	901622	901676
798	902003	902057	902112	902166	902220
799	902547	902601	902655	902710	902764
-		-	-	THE RESIDENCE PROPERTY.	THE RESIDENCE AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO IN COLUMN TW

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883945	884002	884059	884115	884172	57-
884512	834569	884625	884582	884739 1	57
885078	885135	885191	885248	885305	57
885644	835700	885757	885813	885869	57
886209	885265	886321	885378	886434	56
886773	885829	886385	886941	886998	56
837336	8 7392	887449	887505	887561	56
887898	837955	888011	888067	888123	56
883460	888516	838573	888629	888685	56
889021	839077	889133	889190	889246	56
889582	889638	889694	889750	889805	56
890141	890197	890253	890309	890365	56
890700	890756	890812	890868	890924	56
891259	891872	891928	891983	892039	56
-	892428	892484	892540	892595	56
892373	892985	893040	893096	893151	56
892929	893540	893595	893651	893706	56
894039	894094	894150	894205	894261	55
894593	894648	894704	894759	894814	55
895146	895201	895257	895312	895357	55
895699		895809	895864	895919	55
896251	895305	896361	896416	896471	55
896802		896912	896967	897022	55
897352	897407	897461	897517	897572	55
897902	897957	898011	898:67	898122	55
898451	898506	898561	898615	898670	55
898999	The second second	100	899164	899218	55
899547		THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IN COLUMN	899711	899766	55
800094	The second second	-	900258	900312	55
900640			900804	900859	55
901186			901349	901404	55
901731	THE REAL PROPERTY AND ADDRESS OF THE PERSON NAMED IN COLUMN TWO PERSONS ASSESSMENT OF THE PERSON NAMED IN COLUMN TWO PERSONS ASSESSMENT OF THE PERSON NAMED IN COLUMN TWO PERSONS ASSESSMENT OF THE PERSON NAMED IN COLUMN TWO PERSON NAMED IN COLUMN TRANSPORT OF THE PERSON NAMED IN COLUMN TWO PERSON NAMED IN COLUMN TWO PERSON NAMED IN COLUMN TRANSPORT N		1	901948	54
902275		THE RESIDENCE OF THE PARTY OF T	902981	902492	54
902818	902873	1 902927	902901	402020	11 54

N	1 0		1 0	1 0	4-9-6
\$5000 DOM:	0	I	2	3	1 4
800	903090	903144	903193	903253	903307
801	903632	903687	903741	923795	903849
802	901174	904228	904283	904337	904391
803	904715	904770	904824	904878	904932
804	505276	905310	905364	905418	905472
805	905706	905850	905904	905958	906012
806	906335	906389	906443	906497	906550
807	906873	906927	907981	907035	907089
808	907411	907465	907519	907573	907626
809	907948	908002	908056	908109	908163
810	908485	908539	908592	908646	908699
811	909021	909074	909128	906181	909235
813	909556	909609	909563	909716	939770
814	910090	910144	910197	910251	910304
815	THE RESERVE THE PERSON NAMED IN				-
816	911158	911211	911264	911317	911391
817	911090	911743	911797 912323	912381	911903
818	912753	912806	912859	912912	912966
819	913283	913337	913390	913443	913495
820	913814	913867	913920	913973	914026
821	914343	914396	914449	914502	914555
822	914872	914925	914977	915030	915583
823	915400	915453	915505	915558	915611
824	915927	915980	916033	916085	916138
825	916454	916507	916559	916612	916664
825	916980	917033	917085	917138	917190
827	917505	917558	917611	917663	917715
828	918930	918083	918135	918188	918240
829	918554	918607	918659	918712	918764
830	91978	919130	919183	91 9235	919287
831	919601	919653	919700	91 9758	919810
832	920123	920175	920228	920280	920332
833	920645	920697	920742	920801	920853
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903	903	903958	904012	904066	904120	54
	145	904499	904553	904607	904661	54
	.985	905040	905094	905148	905202	54
905	526	905585	905634	905688	995742	54
	065	905119	906173	906227	906281	54
	604	936658	906712	905765	906820	54
	142	907196	907250	907304	907358	54
	680	907734	907787	907841	907895	54
	217	908270	908424	908378	908431	54
	3753	908807	908800	908914	908967	54
	288	909342	909395	909149	909502	54
	9323	909877	909930	909984	910037	53
	0358	910411	910464	910;18	910571	53
910	1680	910944	910998	911051	911104	53
	1424	911477	911530	911584	911637	53
	1956	912009	912062	912116	912166	53
III WASHI	2488	912541	912594	912647	912700	53
	3019	913072	913125	913178	913231	53
91	3549	913602	913655	913708	913761	53
91.	4079	914132	914184	914237	914290	53
DOI: NOT THE REAL PROPERTY.	4603	914660	914713	914766	914819	53
	5136	915189	915214	915294	915347	53
THE RESERVE	5664	915716	915769	915822	915874	53
-	6191	916243	616296	916349	916401	53
_	6717	916770	916822	916875	916927	53
	7243	917295	917348	917400	917453	53
	7768	917820	917873	917925	917978	53
	8292	918345	918397	918459	918502	53
91	8816	918869	918921	918973	919026	53
91	9340	919392	919444	919496	919549	52
91	9862	919914	919967	920019	920071	52
92	0384	920436	920489	920541	920593	52
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92	14.6	921478	921530	921582	1921634	11 52

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835	921686	921738	921790	921842	921894
836	922205	922253	922310	922352	922414
837	922725	922777	922829	522881	922933
	923214	923296	923348	923399	923451
1839	923762	923814	923865	923917	923969
840	924279	924331	924383	924434	924486
841	921795	924848	924899	924951	925002
842	925312	925354	925415	525467	925518
843	925828	925879	925931	925982	926034
844	926342	926394	926415	926497	926548
845	926875	926903	926959	927011	927062
846	927370	927422	927473	927524	927576
847	927883	927935	927986	928037	923088
848	928396	928447	928498	928549	928601
849	928908	928959	92,9010	929061	929112
850	929419	929470	929521	929572	929623
851	929930	929981	930032	930083	930134
852	930440	930491	930541.	930592	930643
853	930949	931000	931051	931102	931152
854	931458	931509	931560	931610	
855 856	931966	932017	932068	932118	932169
856	932474	932524	932575	932626	932677
857	932981	933031	933082	933131	933690
858	933487	933538		934145	934195
859	933993	934044	934094	Sale-attended to the country	-
860	934498	934549	934599	934650	934700
861	935003	935054	935104	935154	935709
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864	936514	936564	936614	936665	936715
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865	937518	937568	937618	937668	937718
867	938019	938069	938119	938169	939219
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893	950851	950900	950949	950997	951046
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905	956649	936597	956745	956793	955840
905	957123	957176	957224	957272	957320
907	957507	957655	957703	957751	957799
903	958086	958134	958181	958229	958277
909	958561	958612	958559	958707	958755
910	959011	959089	959137	959184	959232
911	959518	959566	959614	959561	959709
912	959995	960012	960090	960138	960185
913	960471	960518	950566	960613	950561
914	960946	960991	951041	961089	961136
915	951421	951468	961516	951563	961611
916	961895	166196	961990	952038	952085
917	952369	962417	962454	962511	952559
918	952843	952890	962937	962985	953032
919	953315	563363	963410	963457	952504
920	963783	953835	963882	963929	963977
921	954260	964307	964354	964401	964448
922	964731	954778	95482	954872	964919
923	965202	955249	955295	965343	965390
924	955672	965719	955766	965813	965860
925	956142	966189	9652 6	966283	966329
926	966511	956558	956705	966752	966798
927	957080	957127	967173	967220	967257
928	967548	957595	967542	957688	967735
929	958016	968062	958109	968156	968202
930	958481	968530	968576	958623	968670
931	958950	968996	969043	969090	969136
932	969416	969463	969509	969556	95,9602
933	969382	969928	969975	970021	970068
934	970347	970393	970440	970186	970533
935	970812	970858	970904	970951	970997
936	971276	971322	971369	971415	971461
937	971740	971786	971832	971879	971925
938	972203	972249	972295	972342	972388
19391	972666	972712	972758	972804	972851

Was Inches	1000	SECTION SECTION			-
5	6	7 1	8 1	9 1	DI
956885	956936	956984	957032	957080	48
957368	957416	957464	957512	957559	48
957847	957894	957942	957990	958038	481
958325	958373	558421	958468	958516	48
958303	958850	958898	958946	958994	48
959280	959328	959375	959423	959171	48
959757	959804	959852	959900	959947	48
960235	960285	960328	950376	960423	48
960709	960756	960804	960851	960849	48
951184	961231	961279	961326	951374	47
961658	951706	961753	961801	961848	47
962132	962180	962227	962275	962322	47
962606	962653	952701	962748	962795	47
963079	963126	963174	963221	963268	47
963552	963599	963646	953693	963741	47
954024	964071	964118	964165	964212	47
964495	954542	964590	964637	964684	47
964966	965013	965061	965108	965155	47
955437	965484	965531	965578	965624	47
955907	965954	966001	966048	966095	47
966376	966423	966470	966517	966564	47
966815	966892	966939	966986	967033	47
967314	967361	957408	967454	967501	47
967782	968296	967875	968389	967969	47
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968716	968763	968810	968856	968903	47
969649	969229	969276	969323	969369	47
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970114	970626	970207	970254	970300	47
the Management of the last		-	970719	970765	46
971044	971090	9711;7	971183	971229	46
971971	972018	972064	971647	THE RESERVE AND PARTY AND PARTY AND PARTY AND PARTY.	46
972434		972527	972573	972157	46
972897	972943	972989	973035	973082	46
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-	THE RESIDENCE OF THE PERSON NAMED IN	- Transmission ou	-		OF STREET, STR
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940	973128	973174	973220	973266	973313
941	973550	973636	973582	973728	973774
942	974051	974097	974143	.974189	974235
943	974512	974558	974604	974650	974696
944	974972	975018	975064	975110	975156
945	975432	975478	975524	975570	975616
946	975891	975937	975483	976029	976075
947	976350	976396	975442	976488	976533
948	976828.	976854	976899	976946	9.76992
949	977266	977312	977358	977403	977449
950	977724	977769	977815	977861	977906
951	978181	978226	978272	978317	978363
952	978637	978683	978723	978774	978819
953	979093	979138	979184	979230	979275
954	979548	979594	979639	979685	979730
955	980003	980049	980094	980140	980185
956	980458	980503	980539	980594	980640
957	980912	580957	981003	981048	981093
958	981366	981411	981456	:981501	981547
959	981819	581864	981,909	981954	982000
960	982271	982316	980094	982407	982452
961	982723	982769	982814	982859	982904
962	983175	983220	983265	983310	583356
963	983626	983671	983716	983762	983807
964	984077	984122	984167	984212	984257
965	984527	984573	984617	984662	984707
966	984977	985022	985067	985112	985157
967	985426	985471	985516	985561	985606
969	985875	985920	585965	986010	986055
	- Companion of the Paris	986816	986413	Market and Administration of the Control of the Con	986503
970	986772	987264	98 861	986906	986951
971	987666	987711	987309	987353	987393 987845
973	988113	988157	988202	988247	988291
974	988559	988604	98.648	988693	988737
3//41	1 2000	7.1	90.040	70075	300/3/

5	6	7	8	9 1	D
973359	973405	973451	973497	973543	46
973820	973866	973913	973959	974005	46
974281	974327	974374	974420	974466	46
974742	974788	974834	974880	974926	46
975202	975248	975294	975340	975386	46
975662	975707	975753	975799	975845	46
976121	.976167	976212	976258	976304	46
976579	976625	976671	976717	.976763	46
977037	977083	.977129	977175	977220	- 46
977495	977541	977586	977632	977678	46
977952	977998	978043	978089	978135	46
978409	978454	978500	978546	978591	46
978865	978911	978956	979002	979047	46
979321	979366	979412	979457	979503	46
979776	979821	979867	979912	979958	46
980231	980276	980322	980367	980412	45
980685	980730	980776	980821	980867	45
981139	. 981184	981229	981275	981320	45
981592	981637	981683	982181	981773	45
982015	982090	982135	The second secon	A STATE OF THE PARTY OF THE PAR	45
982467	982543	982588	982633	982678	45
982949	982994	983040	903005	983130	45
983401 983852	983446	983491	983536	983581	45
984302		983942	983987	984032	45
THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE OWNE	984347	984392	984437	CONTRACTOR SERVICE	45
984752	984797	984842	984887	984932	45
985202	985247	985292	985337 985786	985382	45
986100	986144	985741 986189	986324	986279	45
986548	486593	986637	986682	986707	45
986996	987040	987085	987130	987175	The Report of the Local Division in the Loca
987443	987488	987522	987577	987622	45
987890	987934	987979	1988024	988068	45
988336	988381	688425	988470	988514	45
988782	988826	988871	988916	988960	45
	- Francisco	-)		

1					
INI	101	I	2	3 1	4
975	989005	989049	989094	989138	989183
976	989450	989494	989539	989583	989628
977	989895	989939	989583	980023	990072
978	1.990339	990383	990428	990472	990516
979	990783	990827	990871	990916	990960
980	991226	991270	991315	991359	991403
186	991669	991713	991757	991802	991845
982	992111	992156	992200	992244	992288
983	992554	992598	992642	992636	992730
984	992995	993039	993083	993127	993172
985	993436	993480	993524	993568	993613
986	993877	993921	993965	994009	994053
987	994317	994361	994405	994449	994493
989	994757	994801	994845	995328	994933
	995196	995240	995284	995767	995372
990	995033	995679	995723	996205	996249
991	996522	996555	996599	996643	996687
998	996949	995993	997037	997080	997124
994	997386	997430	997474	997517	997561
1	997823	997867	997910		
995	998259	998303	998346	997951	997998
997	998695	998739	998782	998826	998869
998	999130	1999174	999218	999261	999305
999	1999565	999609	999652		1999739

End of the Table

			CONTROL DESCRIPTION	RESIDENCE PROPERTY.	THE REAL PROPERTY.
5	6	7 1	8	91	D
989227	989372	989316	989301	989405	45
989572	989717	989761	989805	989850	44
993117	990161	990206	990250	990294	44
990561	990605	990550	990694	990738	44
991001	991509	991-093	991137	991182	44
991448	991492	991536	991580	991625	44
991890	991934	991979	992023	992067	41
992333	992377	992421	992465	992509	44
992774	992819	992'563	992907	992951	44
993216	993260	993304	993348	993392	-44
993657	993701	993745	993789	993833	44
993097	994141	994185	991229	994273	44
994537	994581	991625	994669	994713	44
994977	995021	995065	995108	995152	44
995416	995460	995504	995547	995591	44
995854.	995898	995942	995986	996030	44
1996293	995337	996380	996424	996468	44
996731	996774	996818	996862	996906	44
997168	997212	997255	997299	997043	44
997695	997648	997692	997736	997779	44
998041	998085	998129	998172	998216	44
998477	998521	998564	998608	998652	44
998913	998956	999000	999043	999087	44
999438	999392	999435	999479	999522	44
999783		999870	99,1913	999956	44
		and the last		-	-

Of Logarithms.

Here followeth

ATABLE

OF

PARTS PROPORTIONAL,

FOR

The finding the Logarithms of all Numbers, betwixt 10000 and 100000.

27 4 -	T	A TOWN THE PARTY OF THE PARTY O	7
Parto	Pron	ortiona	
TINE	TIOP	OL PEDIETO	a

				BOSION	MAN THE				THE REAL PROPERTY.
DI	TI	21	21	1	7	5	7	34	9
-	-	2 8		4		2	1	-	-0
43	4	8	12	17	21	25	30	34	30
41	1 4 4 4	8	13	17	22	26	30	35	39
15	A	0	13	18	22	27	31	36	40
16	1	2	12	18	22	27	32	26	41
40	4	7	123	17 18 18 18 18	22	28	20	27	12
4/	4	9	1	70	23	08	22	28	12
40.	4	9	14	19	24	20	33	30	42
49	4	9	14	19	24	29	34	39	44
.50.	5	IO	15	20.	25	30	35	40	45
51	5	8 9 9 9 9 9 9 9 10 10	2 12 13 13 14 14 14 15 15	20	25	30	35	40	45
52	4 5 5 5	IO .	15	20	26	31	36	41	46
53	5	IO	15	21	26	31	37	42	47
54	5	IO	15	21	5 21 22 23 24 24 25 26 27 28 29 29	5-256 27288 2900 3112 33344566778 39	7 30 3 2 3 3 4 5 5 6 7 7 8 9	35 36 37 38 39 40 41 42 43 44 45 47 48	38 39 40 41 42 43 44 45 45 46 47 49 51 52 53 54 54
55	2	II	16	22	27	22	38	44	49
25	5	7.	16		28	22	20	11	50
20	5	II		22	28	22	20	15	SI
57	5 5	II	17	22	20	34	32	43	50
58	5	II	17	23	29	34	40	40	24
59	5	11 12 12 12 12 12	17 18 18 18 18 19	22 23 24 24 24 25 25 26	29	35	39 40 41 42 42 43 44 44	47	23
60	6	12	18	24	30	36	42	48	54
61	6	12	18	24	30	36	42	48	54
62	6	12	18	24	31	37	43	49	55
62	6	12	18	25	31	37	44	50	1.56
61	6	12	19	25	31 32 32	38	44	48 49 50 51	56 57 58 59
60	6		19	26	22	30	45	52	58
2	1	13	10	26	22	20	16	80	50
D 43 44 45 46 47 48 49 50 51 52 53 54 55 55 57 58 59 60 60 60 60 60 60 60 70 71	9999999999	13	19	26	33	39	46	52	60
07	0	13		26	33	40	40	53	61
68	0	13	20	27	34	40	47	54	62
69	6	13	20	27 28	34	41	48	55	
70	7	14	21	28	35	42	49	56	03
71	77	14	21	28	35	42 43	49	56 56	03
72	7	IA	21	28	36	43	50	1 57	64
73	7	13 13 13 13 14 14 14 14	21	29	35 36 36	43	51	58	63 64 65
74	7	14	22	29.	37	44	51	59	66
74		-	22	30	37	45	52	60	67
74 75 76	7	15	22	4 75 4	38	1 45	53	60	68
1 70	7	1 15		30	30.	47	, 12	20114	A POST
-	STATE OF THE PERSON NAMED IN	-		STATE OF THE PARTY		the state of the last of the l	AND DESCRIPTION	PARTICIPATION OF THE PARTY OF T	THE PERSON NAMED IN

Parts Proportional.

		+ 3000 (3)	M. Branch		THE PARTY NAMED IN		11/1/10	100		2000
	D 778 790 81 82 83 84 85 86 87 88 89 99 99 99 99 99 99 99 99 99 99 99	I 77788888888889999999999999999999999999	2 15 15 16 16 16 17 17 17 18 18 18 19 19 19 19 20	3 23 23 24 24 24 25 25 26 26 27 27 27 28 28 29 29 30	4 3 3 3 3 3 3 4 3 4 3 5 5 6 6 6 7 7 8 8 8 9 9 4 9	5 38 39 40 41 42 42 43 44 45 45 46 47 48 48 49 50	6 46 47 48 49 50 51 52 53 54 55 57 78 8 59 60	7 53 55 56 57 58 59 50 61 62 63 64 65 66 67 67 68 69 70	8 61 62 63 64 65 66 67 68 68 69 70 71 72 73 74 75 76 77 78 79 80	9/69 70 71 72 73 74 75 77 77 78 79 81 82 83 84 85 86 87 89 90
ı	82	8	17	25	34		51	59	68	76
ı	87	8	17	26	34	43	51	59	60	77
ı	88	8	17	26	35	44	52	61	70	70
ì	89	8.	17	26	35	44	53	62	71	80
ì	90	9	18	27	36	45	54	63	72	18
١	91	9.	18	27	36	45	54	63	72	81
۱	92	9	18	27	30	A5	55	64	73	82
I	93	9	18	28	3/	40	56	65	75	84
ł	95	9	19	28	38	47	57	66	76	85
١	96	9	19	28	38	48	37	67	76	86
H	97	9	19	29	38	48	58	67	77	87
ı	98	7		29	39	49	THE RESERVE OF THE PERSON NAMED IN COLUMN 1	68	A CONTRACTOR OF THE PARTY OF TH	
۱				29			60	70	179	THE RESERVE OF THE PARTY OF THE
1	IOI	10	20	30	40	. 50	60	70	80	90
-	102	10	20	30	40	51	61	71	81	91
-	103	10.	20	30	41	51	61	72	82	92
1	104	10	20	31	41	52	62	72	83	93
	105	10	21	31	42	52	63	73	84	94
-	106	10	21	31	42	53	64	74	85	95
-	108	IO	21	32	43	54	64	75	86	96
1	109	10	21	32	43.	54	65	76	87	98.
-	110	II	22	133) 44	1 55	66	177	188	98.
10	STATE SPACE	www.completylesp	PROPERTY OF THE PARTY OF	THE OWNER WHEN	NAME OF TAXABLE PARTY.	District Street	-	-	-	The Real Property lies

Parts Proportional.

-	-									
DI	I	21	31	41	51	61	7 1	8,	9	-
77.	II	1	- 1 -	-		66		88	- gapranes	2.
III	II	DESCRIPTION OF THE PERSON NAMED IN	STATE OF THE PARTY	44	55		77 78	00	99	1
112.	II		DESCRIPTION AND ADDRESS OF THE PERSON NAMED IN	44	56	67	70	89	100	
113		22	PARTY BEAUTY	45	57	67	78	90	IOI	
114	II	22	34	45	57	68	79	91	102	1
115	II	23	34	45	57	69	00	92	103	
116	II	23	34	46	58	69	18	92	104	
117	II	23		46	58	70	81	93	105	
118	II	23	35	47	59	70	82	94	106	
119	II	23	35	47	59	71	83	95	107	
120	12	24	35	48	60	72	84	96	108	200
121	12	24	35	48	60	72	84	96	108	
122	12	24	36	48	61	73	85	97	109	
123	12	24	35	48	61	73	86	98	110	12
124	12	21	37	49	62	74	86	99	III	4
125	12	25	37	50	62	75	87	100	112	10
126	12	25	37	50	63	75	88	100	113	100
127	12	25	37	50	63	76	88	IOI	114	18
128	12	25	38	51	64	76	89	102	115	8
129	12	25	38	51	64	77	90	103	116	B
130	13	25	39	52	65	78	91	104	117	ı
131	13	126	39	52	65	78	91	104	117	18
132	13	25	39	52	66	79	92	105	118	П
133	13	25	39	53	66	79	93	106	119	П
134	13	26	40	53	67	79	93	107	120	i
135	13	27	40	54	67	81	94	108	121	B
1126	13	27	40	54	68	81	95	108	122	
137	13	27	41	54	68	82	95	109	123	8
138	13	27	41	55	69	182	1 05	110	124	1
139	13		41	55	69	83	07	III	125	1
140			42	56	170	84	97 98	112	126	
141	14		42	56	70	184	98	112	126	-
142	No. 2011		42	56	71	85	99	113	127	1
143			42	57	71	185	100	114	128	
144	66 SEP		43	157	A SHARE WAS A SHARE WAS A		100.	115	1 129	-
6-44		Stea 3	1 43	. 11		1000		1	257	3

	THE REAL PROPERTY.	COLUMN THE PARTY.	E CONTRACTOR OF THE PARTY OF TH	-			-	and the same of	HARACTURE
D	1	12	3	14	15	6	17	181	19
145	14	28	43	58	72	87	-	1-1	
146	1000000	29		58		0-	101	116	130
147	14	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 1	43	58	73	87	102	116	131
148	14		44		73	88	102	117	132
	14	29	44	59	74	88	103	118	133
149	14	29	44	59	74	89	104	119	134
150	15	30	45	60	75	9.0	105	120	135
151	15	30	45	60	75	90	105	120	135
152	15	30	45	60	76	91	106	121	136
153	15	30	45	60	76	91	107	122	137
154	15	30	46	61	77	92	107	123	138
155	15	31	46	62	77	93	108	124	138
156	15	31	46	62	78	93	109	124	140
157	15	31	47	62	78	94	109	125	141
158	15	31	47	63	79	94	IIO	126	142
159	15	31	47	63	79	95	III	127	143
160	16	32	47	64	80	96	112	128	144
161	16	32	48	64	80	96	112	128	144
162	16	32	48	05	81	97	113	129	145
163	16	32	48	165	82	98	114	130	146
164	16	32	49	66	82	98	114	131	147
165	16	33	49	66	82	99	115	122	148
165	16	33	49	66	83	99	116	132	The second second
167	16	33.	50	66	83	100	116	732	149
168	16	33	50	67	84	100	117	133	150
169	16	33	50	67	84	IOI	118	134	151
170	17	34	51	68	85	102	119	135	152
171	17	34	51	68	85	102	119	136	153
172	17	34	51	68	86	103	120	136	153
173	17	34	51	69	86	103	121	137	154
174	17	34	52	69	87	104	121	130	155
175	17	35 1	52	70	87	105	122	139	156
176	17	35	52	70	88	105		140	157
177	17	35	53	70	88	106	123	140	158
178	17	35-	53	71	891	106	123	141	159
William !	1	33	12 1	151	,	100.0	124	142 1	160
2.		PRODUCTION		STATE OF THE PARTY.	- BANKS	-	ALEX -	STREET, STREET,	-

	-	-				-	A STATE OF THE PARTY OF THE PAR		-
DI	1	2	31	41	5 1	6	71	8	9
170	17	35	53	71	89	107	125	143	161
179	17	36	54	72	90 .	108	126	144	162
181	18	36	54	72	90	801	126	144	162
182	18	36	54	72	91	109	127	145	163
183	18	36	54	73	91	109	128	146	164
181	18	36	55	73	92	IIO	128	147	165
185	18	37	55	74	92	III	129	148	166
185	18	37	55	74	93	III	130	148	167
187	18	37	56	74	93	112	130	149	168
188	18	37	56	75	94	112	131	150	169
189	18	37	56	75	94	113	132	151	170
189	19	38	57	76	94 95	114	133	152	171
191	19	38	57	76	95	114	133	152.	171
192 193 194	19	38	57	76	96	115	134	153	172
193	19	38	57	77	90	115	235	154	173
194	19	38	50	77 78	97	116	135	155	174
195	19	39	58	70	97 98	117	136	156	175
196	19	39	59	78	90	117	136	156	176
197	19	39	59	78	98	118	137	157	177
190	19	39	59	79	99	2717181903018	138	150	178
199	19	39	59	79	99	119	139	159	179
The party	20	40	60020000	80	A CONTRACTOR OF	15/63/04	140	160	F 400 Std 100 100 100
201	20	40	60	80	100	121	140	161	181
202	20	40	60	81	IOI	121	141	162	182
203	20	40	61	81	102	122	142	163	183
205	20	41	61	82	102	123	143	164	184
206	20	41	61	82	103	123	144	164	185
207	20	41	62	82	103	124	CONTRACTOR OF THE PARTY OF THE	165	186
203		41	62	83	104	124		166	187
209		41	62	83	104	125	146	167	188
210	92 2 7	42	63	84	105	126	and the second second	168	1189
211	21	42	63	84	105	126	147	1 168	189
212		142	163	184	1106	1127	148	169	190
-		-	-	-	-	-	-	-	

-		THE REAL PROPERTY.	-	and the	TOTAL STREET	To block to	A STATE OF	nghinal hours	35 137
DI	1	2	31	4	5	16	7	8	19
213	21	42	63	85	1	-	-	The same	-
214	21	42		85	106	127	149	170	191
215	21	SECOND STREET,	64	86	107	123	149	171	192.
216	21	43	64	86	107	129	150	172	193
-217	21	43	65	86	108	129	151	172	194
218	21	43	65	87	200000000000000000000000000000000000000	130	151	173	195
219	21	43	65	87	109	130	152	1.74	195
220	22	44	66	88	110	131	153	175	197
221	22	44	66	88	110	132	154	176	198.
222	22	44	66	83	III	133	154	176	
223	22	44	66	89	III	133	155	177	199.
224	22	44	67	89	112	134	156	179	201
225	22		67	90	112	135	157	180	202
226	22	45	67	90	113	1.35	158	180	203
227	22	45	68	90	113	136	158	181	204
228	22	145	68	16	114	136	159	182	205
1229	23	45	68	91	114	137	160	183	206
230	23	145	69	92	115	138	161	184	207
1231	23	46	69	92	115	138	161	184	207
232	23	46	69	92	116	139	162	185	208
233	23	46	69	93	116	139	163	186	209
234			70	93	117	140	163	187	210
235	23	47	70	94	117	141	164	188	211
236	and the second second	III. BEDDANIES	70	94	118	141	165	188	212
237	23		71	94	118	142	165	189	213
238	23		71	95	119	142	166	190	214
239		147	71	95	119	143	167	191	215
240	A DESCRIPTION OF		72	95	120	144	168	192	216
241	24	1 2 2	72	96	120	144	168	192	216
243	24		72	95	121	145	169	193	217
244	24		7.2	97	121	145	170	194	218
245	24	n seminar	73	97	122	146	170	195	219
246	24	149		0.0	123	147	171	196	220
-		-	1/3	7	1.00	147	172	196	221

S. P.		DE LANGE	-				-	-	
D,	1	21	31	41	5 1	6	71	8	9
047	24	49	74	93	123	148	172	197	222
247	24	49	74	99	124	148	173	198	223
	24	49	74	99.	124	149	174	199	224
249	25	50	75	100	125	150	175	200	225
250	25	50	75	LOO!	125	150	175	200	225
251	25	50	75	100	125	151	176	201	225
253	25	50	75	IOI	125	LSI	177	202	227
254	25	50	76	IOI	127	152	177	203	228
255	25	50	75	102	127	153	178	204	229
256	25	51	76	102	128	153	179	204	230.
257	25	51	77	102	128	154	179	205	231
258	25	51	77	103	129	154	130	205	232.
259	25	51	77	103	129	155	181	207	233
260	26	52	78	104	130	156	182	208	234
261	26	52	78	101	130	156	182	208	234
262	26	52	78	104	131	155	183	209	235
263	26	52	78.	105	131	157	184	210	236
264	26	52	79.	105	132	158	184	211	237
265	26	53	79.	106	132	159	185	212	238.
266	26	53	79	105	133	159	185	212	239
267	26	53	8.0	106	133.	160	186	213	240
268	25	53	80	107	134	150	187	214	241
269	26	53	80	107	134	161	188	215	242
270	27	154	18	103	135	162		216	213
271	27	154	81	108	135	162	189	216	243
272		154	181	103	136	163	190	217	244
273	27	54	181	109	136	163	191	218	245
274	27	154	82	109	137	164	191	219	246
275	B LIE SI	55	82	IIO	137	165	192		247
276		155	82	IIO		165	193	AN ADDRESS OF THE PARTY OF THE	248
277	2.7	55	83	IIO	THE RESIDENCE OF THE PARTY OF T	156	193	221	249
278	27	55	83	III	139	165	194	222	250
279	27	1 55	83		139	167	195		251
280		1 56	84	1112	1140	1 168	1 196	1224	252
1-	-	-	-	Carlotte State	DESCRIPTION OF THE PARTY OF THE	NAME OF TAXABLE PARTY.	BURNING ST	STATE OF THE PARTY OF	September 1

	Name and Address of the Owner, where	CONTRACT OF	No. of Concession, Name of Street, or other Designation, or other			Contract of the	-		
D	1 3	1.3	213	14	15	16	17	18	19
28	1 28	5 50	-			168		-	-
28	2 08	COURS BEING COM	84	II 2			1		
28:	2 08		84	1113	A STATE OF THE PARTY OF			225	
1 23/	1 1 28		85	1113	and the same of the			225	
28	5 28		THE RESERVE OF THE PERSON	114		THE RESIDENCE OF THE PARTY OF T	STATE OF THE OWNER, TH	10000	
1 285	5 28			114			199		256
28-	7 28			114		CO. But the Co. Co.	200	an employeesses	257
288	3 28		2 / -	1115	144				258
289	28	and the second	B (1) 4	1115	144	III SURESCONDO DE LA CONTRACTORIO		230	259
290		AND DESCRIPTION OF	87	116	145	174			260
291	29		87	116	145	174	203	232	261
292	29		87	1116	146	175	204		262
293	29		87	117	146	175	205		263
294	29		88	117	147	176	205	234 235	264
295	29	159	88	118	147	177	206	236	265
1296	129		88	118	148	177	607	236	266
297	29	159	88	118	148	178	207	237	267
298	29	159	189	119	149	178	208	238	268
299	29	159	189	119	149	179	209	239	269
300	30	60	90	120	150	180	210	240	270
301	30	160	90	120	150	180	210	240	270
302	30	60	90	120	151	181	211	211	271
303	30	60	90	121	ISI	181	212	242	272
304	30	60	91	121	152	182	212	243	273
305	30	61	91	122	152	183	213	244	274
306	30	61	91	122	153	1831	214	244	275
307	30	61	92	122	153	1841	214	245	276
308	30	61	92	123	154	184	215	246	
309	30	61	92	123.	154	185	216	247	277 278
310	31	62	93	124	155	186	217	248	279
311	31	62	93 1	124	155	186	217	248	279
312	31	62	93	124	156	187	218	249	280
314	31	62	93	125	156	187	219	250	231
3.4	311	62	941	125	157	188	219	251	282
P. State Sta	THE PERSON	24/2964	Secretary Section	STORES OF THE PARTY OF THE PART	G. A. pale a			-	-

Charles and the same of	lange T	-	-					
DII	121	31	41	51	6 1	71	81	9
315 31	63	94	126	157	189	220	252	233
TO COLOR	63	94	126	158	189	221	252	284
SECRETARIA DE LA COMPANIONA DEL COMPANIONA DE LA COMPANIONA DE LA COMPANIONA DE LA COMPANIO	63	95	125	158	190	221	253	285
01	63	95	127	159	190	222	254	236
THE RESERVE TO STREET,	63	95	127	159	191	223	255	237
319 31	64	95	128	160	192	224	256	288
321 32	64	96	128	1600	192	224	256	288
322 32	64	96	128	161	193	225	257	289
323 32	1/-1	9.5	129	161	193	226	258	290
324 32	64	97	129	162	194	225	259	291
325 32	1/.1	97	130	162	195	227	260	292
326 32		97	130	163	195	228	250	293
327 32		98	130	163	196	228	261	294
328 32	1 / . 1	98	131	163	196	229	262	295
329 32	11.1	98	131	164	197	230	263	295
330 33	111	99	132.	165	198	221	264	297
131 33	111	99	132	165	198	231	264	297
332 33	1 //	99	132	165	199	232	255	298
333 3	4//	99	133	166	199	233	266	299
334 3	11/	100	133	167	200	233	267	300
335 3		100	134	167	201	234	268	301
336 3	1-	100	134	168	201	235	258	302
337 23		101	134	163		235	259	303
338 3	/ / /	IOI	135	169	202	236	270	304
339 3	167	IOI	135	169	203	237	271	305
340 3	1 68	102	136	170	304	238	272	306
341 3	1 68	102	136	170		238	272	306
1 342 3	1 68	102	136	171	205	239	273	307
343 3	4 68	102	637	171		240	274	303
1 344 3	4 68	-	137	172		2,10	275	1309
345 3	1 69		138		_	241	276.	310
345 3	1 69		138	173		212		1311
347-3					1 ^	212	277	312
1 348 1 3	4169	1104	1139	1174	1233	1 243	1 278	1313

350 34 70 105 140 175 210 245 280 351 35 70 105 140 175 210 245 280 352 35 70 105 147 176 211 246 281 353 35 70 105 141 176 211 247 282	9 314 315 315 316 317
349 34 69 101 139 174 209 214 279 350 34 70 105 140 175 210 215 280 351 35 70 105 140 175 210 245 280 352 35 70 105 143 176 211 246 281 353 35 70 105 141 176 211 247 282	314 315 315 316
350 34 70 105 140 175 210 245 280 351 35 70 105 140 175 210 245 280 352 35 70 105 143 176 211 246 281 353 35 70 105 141 176 211 247 282	315 315 316
351 35 70 105 140 175 210 245 280 352 35 70 105 147 176 211 246 281 353 35 70 105 141 176 211 247 282	315
352 35 70 105 147 176 211 246 281 353 35 70 105 141 176 211 247 282	316
353 35 70 105 141 176 211 247 282	
10-11-11-11-11-11-11-11-11-11-11-11-11-1	217
	0.0
1 255 3 - 71 126 142 177 012 203	318
1 256 371	319
1200 - 1 - 1 - 1 - 1 - 1 - 1 - 1	320
	321
250 2 27 707 713 770	322
1 260 2 20 20 20 20 20 20	323
261 201 200 1	324
260 33 1 20 20 1	325
260 130 1 209 1	325
1 26 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	326
1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2	327
366 304 292	28
1367 30 292	329
368	330
1 250 230 234	331
270 20 20 20 20 20 20 20 20 20 20 20 20 20	32
9 3/1 2m '74 TYT TAX TYC 000 -	333
1 272 12- 12- 17- 17- 17- 17- 17- 17- 17- 17- 17- 17	33
1 272 2- 24 17- -40 -9/ - -/0 3	34
274 2 74 74 740 700 201 201 201 3	35
276 -0 -0	36
276 37 300 3	37
377 3- 3- 3- 3-00 3-00 3-00 3	38.
278 3/ /2 113 120 100 223 263 301 3	39
270 00 00 00 00 00 00 00 00 00 00 00 00 0	40
330 37 75 114 152 100 008 200 303 3	41
38 1 36 1 36 1 304 3	42
382-38 75 114 1:52 125 205 304 3	42
302 38 76 114 152 191 223 257 305 3	43

2	15 DE	3 7 800				-			
D	11	2	3 1	41	5 1	6 1	7	81	9
383	38	76	-	STATE OF THE PARTY NAMED IN	191	229	258	306	344
384	30	76	114	153	The second second second	230	268	307	345
385	38 1	THE PERSON NAMED IN	115	153	192	231	269	308	346
386	38	77	115	154	192	CONTRACTOR OF	270	308	347
300	38	77	115	154	193	231	270	309	348
387	38	77	116	154	193	232	271	310	349
383	38	77	116	155	194	232		311	350
389	38	77	116	155	194	233	272	312	351
390	39	78	117	156	195	233	273	312	351
1391	39	78	117	156	195	233	273	313	352
392	39	78	117	156	1.96	234	274	314	MICHIGAN CO.
393	139	78	117	157	196	235	275	315	353
394	39	78.	118	157	197	236	275	316	354
395	39	79	118	158	197	237	276		355
395	39	7.9	113	158	198	237	277	316	356
397	39	79	119	158	195	238	277	317	357
398	39	79	119	159	199	238	278.	318	358
399	39	79	119	159	199	239	279	319	359
400	40	80	120	160	200	240	280	320	360
401	40	80	120	160	200	240	280	320	360
402	40	80	120	160	201	241	281	321	361
403	40	80	120	161	201	241	282	322	362
404	40	80	121	161	202	242	282	323	363
405	40	181	121	162	202	243	28.3	324	364
406	40	181	21	162	203	243	284	324	365
407	140	181	122	162	203	244	284	325	366
408	140	81	122	153	204	2+4	285	326	367
409	40	181	122	1 163	204	245	286	327	368
410	41	182	123	164	205	246	287	328	369
411	41	82	123	164	205	246	287	323	369
412		82	123	164	206	247	288	1329	370
413	41	182	123	165	206	247	289	1330	371
414	the second second	82	124	165	207	248	289	1331	372
415	-	182	124	166	207	249	290	1332	373
416		183	1124		208	249	291	1332	1374
				1	THE REAL PROPERTY.				

P	arts	Pr	ope	ortic	noi.
20	THE PARTY OF THE	090300	i		11627 2

	Name of Street	DOM: SHE	AND DESCRIPTION OF THE PERSON	Service Control	AND DESCRIPTION OF				
D	1	12	13	4	15	16	7	18	19
417	41	83	125	166	208	250	291	333	375
418	41	83	125	167	209	250	292	334	376
1419	41	83	125	187	209	251	293	335	377
420	42	84	126	168	210	252	294	336	378
421	42	84	126	168	210	252	294	336	378
422	42	84	126	168	211	253	295	337	379
423	42	84	125	169	211	253	256	338	380
424	42	84	127	169	212	254	296	339	381
425	42	85	127	170	212	255	297	340	382
426	42	85	127	170	213	255	298	340	383
427	42	85	128	170	213	256	298	341	384
428	42	85	128	171	214	256	299	342	385
429	42	.85	128	171	214	257	300	343	386
430	43	86	129	172	215	258	301	344	387
431	43	86	129	172	215	258	301	344	387
432	43	86	129	172	216	259	302	345	388
433	43	86	129	173	216	259	303	346	389
434	43	86	130	173	217	260	304	347	390
435	43'	87	130	174	217	261	304	348	391
Contractor	-	-	-	-Decided to the	-			-	-

Artificial Sines AND TANGENTS, For every Degree and Minute OFTHE UADRANT, Fitted to the Size OFTHE LOGARITHMS.

Degree o.

M	Sine	Co fine	Tangent	Co-Tang.	
0	0.000000	10.000000	-	Infinita.	60
1	6.463726	9.999999	6.463725	13-536274	59
2	6.764756	9.999999		13.235244	10120015011
3	6.940847	9.999999	and the second of the second o	13.059153	57
4	7.055786	9.999999	The second secon	12.934214	56
5	7.162696	9.999999	The second second second second	12.836304	55
6	7.341877	9.999999		12.758122	54
8	7.309824	9.999999	AND REAL PROPERTY AND ADDRESS OF THE PARTY O	12.691175	53
SHIELDS.	7.366816	9.999999	MARKET AND DESCRIPTION AND DES	12.633183	52
10	7.417968	9.999999	THE RESERVE THE PERSON NAMED IN	12.582030	50
TI	-	-	Commission management in coming	12.536273	
12	7.542906	9.999998	THE RESERVOIR CONTRACTOR OF THE PERSON OF TH	12.494880	49
13	7.577668	9 9 9 9 9 9 9 7 9 9 9 9 9 9 9 9 9 9 9 9	CONTRACTOR	12.457091	47
14	7.609853	9.999999		2.390143	46
15	7.639816	9-999596	7.639825	12.360180	45
16	7.667844	9.997995	7.667849	12.332151	44
17	7.694173	9 999995	7.594179	12.305821	43
18	7.718977	9.999994	7-719003	12.281997	42
19	7.742477	9.999993	7.742484	12.257516	41
20	7.764754	9.999993	7.7647:1	12.235239	40
21	7.785943	9.999992	7.785951	12.214049	39
22	7.806145	9.999991	7.806145	12.193845	381
23	7.825451	9.999990		12.174540	37
24	7.843934	9.999989		12.156056	36
25	7.861652	9.949989		12.138326	35
26	7.878695	9.999988	7.878708	12.121292	34
27	7.895085	9.999987	7.895099	12.104901	33
28	7.910879	9.999986		12.089106	32
30	7.926219	9.999985	7.926134	12.073866	31
3-	Management of the last				30 M
	Co-sine	Sine	Co Tang.	Tangent	M

Degree 89.

-	Degree. o.											
M	Sine	Co-sine	Tangenr	Co Tang.								
30	7.940842	9.999983	7.940858	12.059142	30							
31	7.955082	9.999982	7.955100	12.044900	29							
32	7.968870	9.999981	7.968889	12.031111	23							
33	7.982233	9.999980	7.982253	12.017747	27							
34	7.995198	9-999978	7.995215	12.004781	26							
35	8.007787	9.999978	7,007810	11.992191	25							
36	8.020021	9.999976	8.020044	11.979956	24							
37	8.031919	9.999975	8.031945	11.568055	23							
38	8.043501	9.999973	8.043527	11.956473	22 21							
39	8.054781	9.999972	8.054809	11.934194	20							
40	-	9.999971	-	11.923469								
41	8.076500	9.999969	8.086997	11.913003	19							
42	8.097183	9.999966	8.097217	11.902783	17							
43	8.107167	9.999964	8.107203	11.892797	16							
45	8.116926	9.999963	8,116963	11.883037	15							
46	8.126471	9.999961	8.126510	11.873490	14							
47	8 135810	9.999959	8.135851	11.864149	13							
48	8.144953	9.999958	8.144996	11.855004	12							
149	18.153907	9.999956	8.153952	11.846048	11							
50	8.162681	9.999954	8.162737	11.837273	10							
51	8.172180	9.999952	8.171328	11.828672	9							
52	8.179713	9.999950	8.179763	11.820237	- 8							
53	8.187985	19.999948		11.811964	7							
54	8.156102	9-999946	10	11.803844	6							
55	8.204070	PROPERTY AND ADDRESS.	10	11.795874	5							
56	8.211895	THE RESIDENCE OF THE PARTY OF T		11.788017	4							
57	8.219581			11.780359	3 2							
	8.227134	9.999938		11.772805	_							
1 59	8.234557	9.999936			1							
60			-	-	0							
	1 Co-sine	1 Sine	Co.Tang.	l Tangent.	M							
1	The same of the sa	Deg	ree 89.	200 92 100								

		Deg	ree 1.		724
M	Sine	Co-sine	Tangent	Co-Tang.	1
0	8.241855	9-999934	8.241.921	11.758079	60
ī	8.249033	9.999932	8.249102	11.750898	59
2	8.256094	9.999929	8.256165	11.743835	58
3	8.263012	9-999927	8.263115	11.736885	57
4	8.269881	9.999925	8.269956	11.73 044	56
5	8.276614	9.999922	8.276691	11.723309	55
- 6	8.283243	9.999920	8.283323	11.716677	54
7 8	8.289773	9.999918	8.289856	11.716144	53
AND MALLS OF	8.296207	9.999915	8.296292	11.703708	52
9	8.202546	9.999913	8,302634	11.697366	51
10	8.308794	9.999910	8.308884	11.691116	50
II	8.314954	9.999907	8.315046	11.684954	49
12	8.321027	9.999905	8.321122	11.678878	48
13	8.327016	9.999902	8.327114	11.672886	47
14	8.332924	9.999899	8.333025	11.666575	46
15	8.3387.53	9.999897	-	Market Committee of the	45
16	8.344504	9.999894	8.344610	11.655390	44
17	8.350180	9.999891	8.350289	11.649711	43
18	8.355783	9.99 888	8.355895	11.644105	42
19	8.361315	9.999885	8.361430	11.633105	41 40
20	8.366777	9.999002	Management of the contract of		-
21	8.372171	9.999879	8.372292	11.627708	39
22	8.377499	9.999876	8.377622 8.382889	11.617111	38
23	8.382762	9.999873		11.611908	36
24	8.393101	9.999867		11.606766	35
25	The second second	2.333001	8.398315	11.601685	34
26	8.398179	9.999861	8.403338	11.596662	33
27 28	8.403199	9.999858			32
29	8.413068	9.999854		1 0 0 0	31
30	8.417919	9.999851	8.418068	11.581932	30
50	Co sine	Sine	Co. Tang.	Separate and separate	M
-	-	Degi	ee 88.	A resident and a state of	1000

	JACK .	Deg	ree 1.	Sust in	35
M	Sine	Co-fine	Tangent,	Co. Tang.	4
30	8.417919		8.418068	11:581932	30
31	8.422717	9.999848	8.422869	11.577131	29
32	8.427462	9.99 844	8.427618	11.572382	23
33	8.432156	9.999841	8.432315	11.567685	27
34	8.436800	9.999838	8.436962	11.563038	26
35	8.441394	The second second	8.440110	11.558440	25
36	8.445941	THE RESERVE OF THE PARTY OF THE	8.450613	11.553990	24
37 38	8.450440	9.999824	8.455070	11.549387	23
39	8.459301	9.999820	8.459481	11.540519	22 21
40	8.463665		8.493849	11.556151	20
41	8.467985	9.999812	8.468172	11.531828	19
42	8.472263	9.999809	8.472454	11.527546	18
43	8.476498	9.999805	8.476693	11.523307	17
44	8.480693		8.480892	11.519108	16
45	8.484843	9.999797	8.485050	11.514950	15
46	8.488963	9.999794	8.489170	11.510830	14
47	8.493040	9 999790	8.495250	11.506750	13
48	8.497078	9.999786	8.497293	11.502707	12
49	8.501080	9.999782	8.501298	11.498702	II
50	8.505045	9.999778	8.505267	11.494733	10
51	8.508974	9-999774	8.509200	11.490800	98
52	8.512867	9.999769	8.513098	11.486902	NOR COLL
53	8.516726	9.999761	8.520790	11.483039	76
54	8.524343	9.959756	8.524586	11.475414	5
56	8.528102	9.994753	8.528349	11.471651	30
57	8.531828	9.999748	8.532080	11.467920	4 3
58	8.535523	9.999744	8.535779	11.464221	2
59	8.539186	9.999740	8.539117	11.460553	I
60	8.552819	9-999735	8.543084	11.456910	0
	Co-fine	Sine	Co-Tang.	Tangent	M
	The same of the sa	Degr	ee 88.	The state of the s	

		Deg	ree 2.		
M	Sine	Co-fine	Tangent	Co-Tang.	
0	8.542819	9.999375	8.543084	11.456916	60
I	8.546422	9.999731		11.453309	59
2	8.549995	9.999725	8.550258	11.44,732	58-1
3	8.553558	9-949722		11,446183	57
4	8.557054	9.999717	8.557335	11.442 64	56
5 6	8.560540	9.999713	8.560827	11.449172	55
CHONSON,	8.563999	9.999708	8.564291	11.435709	54]
8	8.567431	9.999703	8.567727	11.432272	53
236260	8.570836	9.999699	8.571137	11.428863	52
9	8.574214	9.999694	8.574520	11.425480	51
11	-	9.999589	8.581208	11.422123	50
12	8.580092	9.999685	8.584514	11.418792	49
13	8.587469	9.999675	8.587795	11.412205	48
14	8.590721	9.999670	8.591051	11.408949	47
15	8.593948	9.999665	8.594283	11.405717	45
16	8.597152	9.999660	8.597492	11.402508	44
17	8.600332	9.999655	8.600667	11.399323	43
18	8.603488	9.999650	8.603838	11.356161	42
19	8.606622	9.999645	8.505978	11.393022	41
20	8.609734	9.995640	8.610094	11.389906	40
21	8.612823	9.999635	8.613189	11.386811	39
22	8.615891	9.999629	8.616262	11.383738	39
23	8.618937	9.999624	8.619313	11.380687	37
24	8.621967	9.999619	8.622343	11.377657	36
25	8.624965	9.999614		11.374648	35
26	8.627948		10 1 0	11.371660	34
27	8.630911	9.999603	10 .	11.368692	33
28	8.633854	9-999597		11.365744	32
30	8.636776	9.999592		11.359907	31
30	THE RESIDENCE ASSESSMENT OF THE PERSON NAMED IN	the district of the party of the last of t	Co. Tange	1	30 M
218	1 Co sine	1 Sine		1 Tangent	1 141
A THE REAL PROPERTY.		1)00	ree 87.	windows the species	

Degree 87.

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M	Sine	Co sine	Tangent	Co-Tang.	
30	8.639579	9.994586	8.640093	11.359907	30
31	8.542563	9.999581	8.642982	11.257017	29
132	8.645428	9.999575	8.645853	11.354147	28
-33	8.648274	9.999570	8.648704	11.351296	27
34	8.651102	9.999564	8.651538	11.348463	25
35	8.653911	9.999558	8.654352	11.345648	25
35	8.656702	9-999553	8.657149	11.342851	24
37	8.659475	9-999547	8.659928	11.340072	23
38	8.662230	9.999541	8.662689	11.337311	22
39	8.664968	9.999535	8.665433	11.334567	21
40	8.667639	9.999529	8.663160	11-331840	20
41	8.670393	9.999523	8.670869	11.329130	19
42	8.673080	9.999518	8.673563	11.326437	18
43	8.675751	9.999512	8.676239	11.326761	17
44	8.578405	9.999506	8,678866	11.321100	16
45	8.681043	9.999199	8.681544	11.318456	Is
46	8.683665	9-949493	8.684172	11.315828	14
47	8.686272	9.999487	8.686784	11.313216	13
48	8.688892	9.999481	8.689381	11.310619	12
49	8.691438	9.999475	8.691963	11.308037	II
50	8.693998	9-999169	8.694529	11.305471	10
51	8.695543	9.997462	8.697081	11.302919	9
52	8.699073	9.999456	8.659517	11.300383	8
53	8.701589	9.999450	8.702139	11.297861	7
54	8.704090	9.999443	8.704546	11.295354	6
55	Minister September 1 - 1	9.999437	8.707139	11.292860	5
56	8.709049	9.999431	8.709618	11.290381	4
57	8.713952	9.999424	8.712083	11.287917	3
59	8.716383	9.999418	8.714543	11.285466	2
60	8.718800	9.999411	8,716972	11.283028	
-	-	9.999104	8.719396	11.280504	0
1	Co-sine	Sine 1	Co-Tang.	Tangent.	M
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Degree 87.

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100	12	172	94	0	0		2	
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1000	0	Co Cua	Tingent	Co-Tang. 1	
M	Sine	Co sine	Tangent		-
10	8.718800	9.999404	8.719396	11.280504	60
1	8.721204	9.999398	8.721805	11.278194	59
100000000000000000000000000000000000000	8.723595	9.999391	8.721254	11.275796	58
3	8.725972	9.999334	8.726588	11.27341.2	57
TO ADDRESS OF THE PARTY.	8.728336	9.999378	8.728959	11.271041	56
4	8.730688	9.999371	8.731317	11.268653	55
6	8.733027	9.999364	8.733663	11.266337	54
THE RESIDENCE OF	8.735354	9.999357	8.735995	● 1.264034	53
8	8.737667	9.999350	8.738317	11.261683	52
9	8.739969	9.999343	8.740626	11.259374	51
TO	8.742259	9.999336	8.742922	11.257078	50
TI	8.744536	9.999329	8.745207	11.254793	49
12	8.746801	9.999322	8.747479	11.252521	48
13	8.745955	9.9993:5	8.749740	11.250240	47
14	8.751297	9.999308	8.751989	11.248011	46
15	8.753528	9.999331	8.754227	11.245773	45
16	8.755747	9.999294	8.756453	11.243547	44
17	8 757955	9.999285	8.758668	11.241332	, 43
18	8.760151	9.999279	8.760872	11.239128	142
19	8.762337	9.999272	8.763065	11.236935	41
20	8.764511	9.999265	8.765246	11.234754	40
21	8.766675	9.999257	18.767417	11.232583	39
22	8.768828	9.999250	8.769578	11.230422	38
23	8.770970	9.999242	18.771727	11.228273	37
24	8.773101	9-999235	8.773866	11.229134	The second second
25	8.775223	9.999227	8.775995	11.224005	35
26	8.777333	9.999220	8.778114	11.221886	134
27	8.779434	9.999212	8.783222	11.219778	33
28	8.781524	9.999204	8.782320	11.217680	32
29	8.783605	9.999197	8.784404	11.215592	31
30	8.785675	9.999189	8.786486	11.213514	30
15	Co-fine	Sine	Co.Tang	Tang.	M
100				Designation of the last of the	-

Degree 86.

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M	1 Sine	Co fine	Tangent	Co Tang	.1
30	8.78567	NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAMED IN	8.786486	11.213541	
131	8.787736	18100000	8.788554	11.211446	2 -
32	8.78 9787	9.997174	8.790613	11.209387	
33	8.781828		8.792662	11.207338	SHIP TO THE OWNER OF THE OWNER.
34	8.793859	SE ESTATION OF THE PROPERTY OF	8.794701	11.205299	
35	8.795881	9.999150	8.796731	11.203269	25
36	8.797894	12	8.798752	11.201248	24.
37	8.799897	The second	8,800763	11.199237	23
38	8.801891	9.999126	8.802765	11.197235	22
39	8.803876 8.805852		8.807458	11.195242	21
	With Street and Street Labour.		8.306742	11.193253	20
41 42	8.807819	N CONTRACTOR OF STREET	8.808717	11.191285	19
43	8.811726	9.999094	8.812683	11.189317	18
44	8.813667	9.999086	8,812641	11.187359	17
45	8.815598	9.999069	8.814589	11.185411	16
46	8.817522	9.999051	8.818461	11.183471	15
47	8.819436	9.999052	8.820384	11.181539	14
48	8.821342	9.999044	8.822298	11.179616	13
49	8.823240	9.999036	8.824205	11.175795	12
50	8.825130	9.999027	8.825103	11.173897	IO
51	8.827011	9.99,019	8.827992	11.172008,	and a
52	8.828884	9.999010	8.829874	11.170126	8
53	8.830749	9.999002	8.831748	11.168252	7
54	8.532106	9.998993	8.833613	11.166387	6
55	8.834456	9.998984	8.835471	11.164529	5
56	8.836297	9.998976	8.837321	11.162679	4
57	8.838130	9.998967	8.839163	11.160837	31
58	8.839956	9.998958	8.840998	11.159002	2
59	8.843585	9.998940	8.842825	11.157175	I
-	THE RESIDENCE OF THE PARTY OF T	9.998941	8.844644	11.155356	0
Property line	Co-sine	Sine 1	Co-Tange	Tangent.	M
	-	D	0		-1

Degree 86.

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1	M	Sine	Co-fine	Tangent	Co-Tang	
1		8.843584	9.998941	8.844649	11.155356	60
1	0	-	STREET, SQUARE STREET, SQUARE,	8.846455	11.153545	-
1	I	8.815387	9.998931	8.848240	11.151740	59
1	2 1	8.847183	9.9989'4	8.850057	11.149943	57
and an	3	8.848971	9.998505	8.851846	11.148154	56
1	4	8.852525	9.998856	8.853628	11.146372	55
1	-	-	9.99887	8.755403	11.144597	54
1	6	8.854291	9.998878	8.857171	11.142829	33
1	8	8.856049	9.993869	8.858922	11.141068	52
1	9	8.859546	9.998860	8.860686	11.139314	51
1	40	8.861283	9.998851	8.862433	11.137507	50
-	11	8.863014	9.998841	8.864173	11.135827	49
ı	12	8.864738	9.998832	8.865906	11.134094	48
	13	8.866454	9.998823	8.867632	11.132368	47
B	14	8.868165	9.998813	8.869351	11.130649	46
N	15	8.869868	9.998801	8,871064	11.128936	45
	16	8.871565	9.998795	8.872750	11.127230	44
3	17	8.873255	9.998785	8.874469	11.125531	43
B	गरी	8.874938	9.998776	8.876162	11.123838	42
R	19	8.876615	9.998756	8.877849	11.122151	41
1	20	8.878285	9-958757	8.879529	11.120471	40
1	21	8.879949	9.998747	8.881202	11.118798	39
ì	22	8.881607	9.998738	8.882869	11.117131	38
B	23	8.883258	9.998728	8.884530	11.115470	37
B	24	8.884903	9.998718	8.896185	11.113815	36
	25	8.886542	A BANKSHINE AND THE REAL PROPERTY.	8.887838		35
1	-26	8.888174	9.998699	8.839476	11.110524	34
100	27	8.8898or	9.998689	8.891112	11.107258	33.
1	28	8.891421	9.998679	8.892742	11.105634	31
Sec. se	29	8.893035	9.998654		/	30
F 6.4	30	-	The state of the s	Co Tang.		M
D. Carlo	1839	Co-fine	O'lle	CO 24.6.		-

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		10.5	ee 4.		
M	Sine	Co-sine	Tangent	Co Tang.	188
30	8.891613	9.998659	8.895910	11.104016	30
31	8.895246	9.993649	8.897595	11.102404	29
32	8.897842	9.998539	8.879202	11.100797	28
33	8.899432	9.998529	8.900803	11.099197	27
134	8.901017	9.998619	8.902398	11.097602	26
35	8.902546	9.993609	8.903987	11.096013	25
36	8.904159	9.998599	18.975570	11.094430	24
37	8.905736	9.998589	8.907147	11.093853	23
39	8.907297	9.998578	8.903719	11.091281	22
40	8.910404	9.998568	8.911846	11.089715	21
41	If Address Agency addresses	9.998548	8.913401	11.086599	20
42	8.911949	9.998537	8.914951	11.085049	19
43	8.915022	9.998527	8.916495	11.083505	17
44	8.916550	9.998516	8.918034	11.081960	16
45	8.918073	9.998506	8.919568	11.080432	15
45	8,919591	9.998495	8.921095	11.078921	14
47	8.921103	9.998485	8.922519	11.077381	13
48	8.922610	9.998474	8.924136	11.07.5854	12
49	8.924112	5.993464	8.925649	11.074351	II
50	8.525607	9.998453	8.927156	11.072344	IO
51	8.927100	9.993442	8.928658	11.071344	9
52	8.928587	9.998431	8.930155	11.069845	000
53	8.930068	9.998421	18.931647	11.068353	76
54	8,931544	9-998410	8.933134	11.066866	
55	8.933015	9.998309	8.934616	11.065384	5
56	8.931481	9.998338	8.936093	11.063907	- 4
57	8.935942	9.998377	8.937565	11.062435	3 2
59	8.937398	9.998366	8.939032	11.059506	_
65	8.910296	9.998314	8.911952	11.058048	1 0
-	Co-fine	Sine	Co-Tang.	Tangent	M
2353	Co-line	Sinc 1	Co. Inus.	Langene	. 11

Degree 85.

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M	Sine	Co fine	Tangent	Co-Tang.	1
0	8.940296	9.998344	8.941952	11.058048	60
I	8.941738	19-998333	8.943404	11.056596	1-
2	18.943174	9.998322	8,944852	11.055148	59
3	8.944606	9.998311	8.946295	11.053705	57
4	8.946034	9.998300	8.947734	11.052266	56
1-5	8.957456	9.998289	8.949168	11.050832	55
6	8.958814	9.998277	8.950597	11.049403	54
8	8.950287	9.998256	8.952021	11.047979	33
9	8.953696	9.993255	8.953441	11.046559	52
IC	8.954499	9.998243	8.954856	1.045144	51
11	8.955804	9.998220	8.9:7674	11.042326	50
12	8.957284	9.998209	8.959075	11.042325	49
13	8.958670	9.998197	8,960473	11.039527	47
14	8.960052	9.998186	8.961856	11.038134	46
15	8.961429	9.998174	8.963254	11.036746	45
16	8.962801	9.998163	8.964639	11.035361	44
17	8.964170	9.998151	8.966019	11.033981	43
18	8.965534	9 998139	8.967394	11.032605	42
20	8.966893	9.998129	8.958766	11.031234	41
-		9.998106	8.970133	11.039867	40
21 22	8.959500	9.998104	8.971495	11.028505	39
23	8.972289	9.998090	8.972855	11.027145	38
21	8.973626	9.998063	8.975560	11.025/91	37 36
25	8.974962	9.998056	8.975906	11.023094	35
25	8.976293	9.998344	8.978248	11.0217.2	34
27	8.977519	9.998032	8.979585	11.020414	33
28	8.978941	9.999020	8.980921	11.019079	32
29	8.980259	9.998008	8.982251	11.017749	31
30	8.981573	9.997996	8.983577	11.016423	30
1900	Co fine	Sine '	Co Tang.	Tangent	M
-	and the contract of the contra	-	1318 4-1	man Committee	-

Degree 84.

1	Degree 5.					
M	Sine	Co-fine	Tangent	Co Tang.	M	
30	8.981573	9.997996	8.983577	11.010423	30	
31	8.982883	9.997984	8.981899	11.015101	29	
32	8.981189	9.997971	8.986217	11.013783	23	
33	8.985491	9.997959	8.987532	11.012468	27	
34	8.985789	9.997947	8,9838 12	11.011158	26	
35	8.98 083	9.997935	8.990149.	11.009851	25	
35	8.989374	9.977922	8.991451	11.008549	24	
37	8.990550	9.997910	8.992750	11.007250	23	
33	8.991943	9.997397	8.994045	11.205955	22	
39	8.993223	9.997885	8.995337	11.004653	21	
40	8.991497	6.997873	8.996 124	11.003376	20	
41.	8.995768	9.997860	8.997908	11.002092	1:9	
4.2	8,997036	9.997847	8.999188	11.000812	18	
43	8.998291	9.997835	9.000465	10.999535	1.7	
44 45	8.900816	9.997379	9.001738	10.99699	1.6	
46	9.002069	-		10.995728	15	
47	9.003318	9.997797	9.004272	10.995/20	14	
43	9.001563	9.997771	9.0057534	10.993208	13	
49	y.00.805	9.997758	9.008047	11.991953	12.	
50	9.007044	9.497742	9.009298	10.990702	IO	
51	9.008278	9.997732	9.010546	10.989454		
52	9.009510	9.797719	9.011790	10.988210	.9.	
53	9.010737	9.997706	9.01.031	10.985969	7	
54	9.011952	9.997693	9.014268	10.985732	6.	
55	9.013182	9.997680	9.015502	10.984498	5	
56	9.014399	9.997667	9.016732	10.983268	4	
57	9.015613	9.99765		10.982041	13	
-58	9.016824	9.997641	9.019183	10.980817	2	
59	9.018031	9.997528	5.020403	10.979597	1	
60	9.019235	9.997614	9.021520	10.978380	0	
12/	Co-sine	Sine	Co Tang.	Tangent	IM	
-		Degre	00 84		-	

Degree 84.

Degree. 6.

M	Sine	Co-fine	Tangent	Co-Tang.	Ma
0	9.019235	9.997614	9.321623	10.978380	60
I	9.020435	9.997601	9.022834	10,977166	59
2	9.021632	9.997588	9.024044	10.975956	58
1 3	9.022825	9.997574	9.025251	10.974749	57
14	9.024016	9.997562	9.026455	10.973545	56
15	9.025203	9.997548	9.027655	10.972345	55
16	9.026306	9.997534	9.028852	10.971148	54
8	9.027567	9.997520	9.030046	10.959954	53
25700000	9.028744	9-997507	9.031237	10.968763	52
9	9.029918	9.997493	9.032425	10.957575	51
10	9.031089	9.997480	9.033609	10.966391	50
11	9.032257	9.997466	9.034791	10.965209	49
12	9.033421	9.997452	9.035969	10.964031	48
13	9.034482	9.997439	9.037144	10.962856	47
14	9.035741	9.997425	9.038316	13.961684	46
15	9.036896	9.997411	9.039495	10.950505	45
16	9.038048	9-997397	9.040651	10.959349	44
17	9039197	9.997383	9.041813	10.958187	43
19	9.040342	9-997369	9.012973	10.957027	42
20	9.042625	9.997355	9.044130	10.954716	41
		9.99734:	9.045284	CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	40
21 22	9.043762	9.997327	9.046434	10.953566	39
23	9.041895	9.997313	9.047582	10.952413	38
21	9.047154	9.997299	9.049869	10.950131	37
25	9.048279	9.997271	9.051008	10.958992	36
26	9.049400	9.997256	-	10.947856	35
27	9.050519	9.997212	9.052144	10.946723	34
28	9.051635	9.997228	9.054408	10.945592	33
29	9.052749	9.997214	9.055535	10.944485	31
30	9.053859	9.997249	9.056640	10.943340	30
123	Co-sine	Sine	Co. Tang.	Tang.	M
-	-	-		-	-

Degree 6.

M	Sine	Co-fine	Tangent	Co-Tang.	1
30	9.053859	9.997199	9.056630	10.943340	30
31	9.054966	9.997185	9.057781	10.942219	29
32	9.055071	9.997170	9.058;00	10.941100	28
33	9.057172	9.997156	9.060016	10.939984	27
34	9-058271	9.997141	9.061130	10.938870	26
35	9.054367	9.997127	9.062210	10.937760	25
35	9.060460	9.997112	9.063348	10.936652	24
37	9.061551	9.997048	9.054453	10.935547	23
38	9.052538	9.997033	9.065556	10.934444	22
39	9.063723	9.997063	9.066555	10.933345	21
40	9.064806	9.997053	9.067752	10.932248	20
41	9.065885	9-997039	9.068847	10.931153	19
42	9.066962	9.997024	9.059938	10.930062	18
43	9.068036	9.997009	9.071027	10.928973	17
44	9.059107	9.996994	9.072113	10.925803	16
45		-	9.073197		15
46	9.071242	9.996954	9.074278	10.925722	14
47	9.072306	9.995934	9.075356	10.924644	13
49	9.074424	9.995919	9.077505	10.922495	II
50	9.075480	9.996904	9.078576	10.921424	10
51	9.076533	9.996889	9.079644	10.920356	-
52	9.077583	9.996874	9.080710	10.919290	98
53	9.078631	9.996858	9.081773	10.918227	7
54	9.079676	9.945.843	9.082833	10.917167	6
55	9.080719	9.996828	9.083891	10.916109	5
56	9.081759	9-996812	9.084947	10.915053	4
57	9.082797	9.995797	9.0859991	10.9140001	3
58	9.083832	9.996782	9.087050	10.912950	2
59	9.084864	9.995766	9.088098	10.911902	1
60	9.085894	9.996751	9.089144	10.910856	0
-	Co sine	Sine	Co-Tangl	Tangent.	M
48-74	1 200 300	D	0		

Degree 83.

Degree 7.

MI	Sine 1	Co fine 11	Tangenri	Co-Tana	
0	-		Tangent	Co-Tang.	
100	9.085894	9.996751	9.089144	10.910856	60
I	9.085922	9.996735	9.090187	10.909813	59
2	9.037947	9.996720	9.091228	10.908772	58.
5	9.088970	9.996701	9.092266	10.907734	57
4	9.089990	9:996688	9.093302:	10.905698	56
5	9.091088	9.996573	9.044335	10.905664	55
6	9.092021	9.996657	9.095367	10.904633	54
8	9.093037	9.996641	9.096395	10.903604	53
B37000	9.094047	9.995625	9.097422	10.902578	52
19	9.095056	9.996610	9.098446	10.901554	51
IO	9.096 62	9.996594	9.099468	10.900532	50
II	9.097065	9.995578	9.100187	10.899513	49
12	9.098066	9.996562	9.101504	10.898496	48
13	9.099065	9.996546	9.102519	10.897481	47
14		9.996530	9.103532	10.896468	46
15	9.101056	9.996514	9.104542	10.895458	45
16	9.102048		9.105550	10.894450	44
17	9.103037	1 9.996482	9.106556		43
118	9.104025	9.996465	9.107559	10.892441	42
119	The state of the s	9.995449	9.108560	A STATE OF THE PARTY OF THE PAR	41
20	9.105992	9.996433	9.109559	10.890441	40
21	9.106973	9.996417	9.110556	10.889444	39
22	1111	9.996400	9.111551	10.888449	38
23	The Control of the Co		9.112543	10.887457	37
24		9.996368	9.113533	10.886467	26
25			9.114521	10.885478	35
26	THE REPORT OF THE PARTY AND ADDRESS OF THE PAR	1 4 1 6 3 1 2	9.115507	10.884493	24
27	THE RESIDENCE OF THE PARTY OF T		9.116491	10.883509	33
28	11111	9.996302	9.117472	10.882528	32
29		The second second second	9.118452	10.881548	31
30	to or window or window	9.996269	9.119429		30
1	Co fine	Sine	1 Co-Tang	Tangent	M
1	The room walled	Maria Carlo	Section 1	A STATE OF THE PARTY OF THE PAR	-

Degree 7.

		-	-	NAME AND ADDRESS OF THE OWNER, WHEN PERSON NAMED AND	
M	Sine	Co-fine	Tangent	Co-Tang.	-
30	9.115698	9.996269	9.119427	10.880571	30
31	9.116656	9.996252	9.120404	10.879595	29
32	9.117612	9.996235	9.121377	10.878523	28
33	9.118567	9.996218	9.122348	10.877652	27 26
34	9.119519	9.996202	9.123317	10.876683	_
35	9.120469	9.996185	9.124284	10.875716	25
36	9.121417	9.996168	9.125248	10.874751	24
37	9.122362	9.996152	9.125211	10.873789	23
38	9.123306	9.996134	9.127172	10.872328	22
39	9.124248	9.996117	9.128130	10.871870	21
40	9.125187	9.996100	9.129037	10.870913	20
41	9.126125	9.996083	9:130041	10.859959	19
42	9.127060	9 996066	9.130994	10.869006	18
43	9.127993	9.996049	9.131944	10.868056	17
44	9.128925	9.996032	9.132893	10.867107	16
45	9.129854	9.995015	9.133839	The second secon	15
46	9.130781	9.995998	9.134784	10.865216	14
47	9.131706	9.995980	9.135725	10.864274	13
43	9.132630	9.995963	9.136666	10.853334	11
49	9-133551	9.995946	9.138542	10.862395	to
50			-		
51	9.135387	9.995911	9.139476	10.860524	98
52	9.136303	9.995894	9.140409	10.859591	
53.	9.138127	9.995859	9.142269	10.857731	76
55	9.139037	9.995841	9.143196	10.856804	5
56	9.139944	9.995825	9.144121	10.855879	4
	9.140850	9.995806	9.145044	Committee of the Commit	
57 58	9.141754	9.995788	9.145965	10.854035	3
59	9.142655	9.995770	9.149885	THE RESERVE AND ADDRESS OF THE PARTY OF THE	1
60	9.143555	9.995753	9.147803	10.852197	0
D	Co-fine	Sine	Co Tang.	The second secon	M
-					

Degree 8.

M	Sine	Co-fine	Tangent	Co-Tang.	1
0	9.143555	9.995753	9.147803	10.852197	60
1	9.144453	9-995735	9.148718	10.851282	59
2	9.145349	9-995717	9.149632	10.850363	58
3	9.146243	9-945699	9.159544	10.849456	57
4	9.147136	9.995681	9.151454	10.848546	56
5	9.148026	9.995664	9.152363	10.847637	55
6	9.148915	9.995646	9.153269	10.846731	154
8	9.149801	9.995620	9.154174	10.845825	53
8 55/A	9.150686	9.995610	9.155077	10.844923	52
9	9.151569	9.995591	9.155978	10.844022	51
10	9.152451	9.995573	9.156877	10.843123	50
II	9.1533330	9.995555	9.157775	10.842225	49
12	9.154208	9-995537	9.158671	10.841329	\$
13	9.155082	9-995519	9.159565	10.840435	47
14	9.155957	9.995501	9.160457	10.839543	46
15	9.156830	9.995584	9.161347	10.838633	45
16	9.157700	9.995464	9.162235	10.837764	44
17	9.158569	9.995446	9.163123	10.836877	43
18	9.159436	9.995427	9.164008	10.835992	42
19	9.160301	9.995409	9.164892	10.835108	41
-	9.161164	9-995390	9.165773	10.834225	40
21	9.162052	9-995372	9.166654	10.833346	39
22	9.162885	9.995353	9.167532	10.832468	38
23	9.163743	9-995334	9.168409	10.831591	37
24	9.164600	9.995316	9.169284	10.830716	36
25	9.165454	9.995297	9.170157	10.829843	35
26	9.166307	9.995278	9.171029	10.828971	34
27	9.167158	9.995260	9.171899	10.828101	33
29	9.168008	9.995241	9.172767	10.827233	32
30	9.169702	9.995222	9.173634	10.826366	31
30	Total and the second	9.995203	THE RESIDENCE OF THE PERSON NAMED IN COLUMN 1		30
M	1 Co sine	Sine	Co-Tang.	Tangent	M

Degree 8.

M	Sine	Co-fine	Tanger t	Co-Tang.	
30	9.169702	9.995203	9-174499	10.825501	30
31	9.170546	9.995184	9-175362	10.824638	29
32	9.171389	9.995165	9-176221	10.823776	28
33	9-172230	9.995146	9-177084	10.822916	27
34	9-173070	9.995127	9.177942	10.822057	26
35	9.173908	9.995108	9.178799	10.821201	25
36	9.174744	9.995089	9.179555	10.820345	21
37	9.175578	9.995070	9.180508	10.819442	23
38	9.176411	9.995061	9.181360	10.818940	22
39	9.177242	9.995032	9.182211	10.817789	21
40	9.178072	9.995012	9.183060	10.816940	20
41	9.178900	9-994993	9.183907	10.816093	19
42	9.179726	9.994974	9.184752	10.815248	18
43	9.180551	9-994955	9.185597	10.8:4403	17
44	9.181374	9-994935	9.186439	10.813561	16
45	9.182195	9.994916	9-187280	10.812720	15
45	9.183016	9.994896	9.188120	10.811880	14
47	9-183834	9.994876	9.188957	10.811042	13
48	9.184651	9.994857	9.189794	10.810206	12
49	9.185466	9.994838	9.190629	10.809371	II
50	9-186280	9.994818	9.191462	10.808538	10
51	9.187192	9-994798	9.192294	10.807706	98
52	9.187903	9-994779	9-193124	10.805876	20000
53	9.188712	9.994759	9:193953	10.806047	7
54	9.189519	9.994739	9.194780	10.805220	6
55	9.190325	9.994719	9.195606	10.804394	5
55	9.191130	9.994699	9.196440	10.803569	4
57	9.191933	9.994680	9.197253	10.802747	3 2
58	9-192734	9.994660	9.198674	10.801926	_
59	9.193534	9.994640	9-198894	10.801106	1
60	9.194332	Andrews to be opposite the same of	9.199712		0
-	Co-sine	Sine	Co Tang.	Tangent	M

Degree 9.

M	Sine	Co fine	1	Tangent	Co-Tang.	1100
0	9.194332	9.994620	-	9.199712	10.80.887	60
I	9.195129	9.994600	1	9.200529	10.799470	59
2	9.195925	19.994580	1	9.201345	10.799955	58
13	9.196718	9.994560	1	9.202159	37 2 1 1	57
4	9.197511	19.994540	1	9.202971	10.797929	56
5	9.198302	9.994519	1	9.203782	10.796218	55
6	9.199091	9.994499		9.204592	10.795408	154
7	19.199879	9.994479		9.205400	10.794600	53
8	9.200556	9.991159	3	9.206207	10.793793	52
9	9.201451	9.994438	2	9.207013	10.792987	51
10	9.202234	9.994118	3	9.207817	10.792183	50
II	9.203017	9.994368		9.203619	10.791381	49
1.2	9.203797	9.994377	5	9.209120	10.790580	48
13	9.201577	9.994357		9.212220	10.789780	47
14	9.205354	9.994336	2	9.211018	10.788982	46
15	9.206131	9.994316		9.211815	10.788185	45
16	9.205905	9.994295		9.212611	10.787389	44
17	9.207579	9.994274		9.213405	10.786595	43
18	9.208452	9.991254	1	9.214198	10.785802	42
19	9.209222	9-9-94233	1	9.214989	10.785011	41
20	9.209992	9.991212		9.215780	10.78 1220	40
21	9.210760	9.994191		9.216568	10.783432	39
22	9.211526	9.994171		9.217356	10.78 2644	38
23	9.212291	9.994150		9.218142	10.781858	37
24	9.213055	9-994129		9.218926	10.781074	36
25	9.213818	9-994108		9.21 9710	10.780290	35
26	9.214579	9.994087	1	9.220491	10.779508	34
27	9.215338	9.994066	1	9.221272	10.778729	33
28	9.216097	9,994044	1	9.222052	10.777918	32
29	9.216854	9.991022	+	9.222830	10.777170	31
30	9.2175 9	9.994003	1.	9.223607	10.766393	30
	Co sine	Sine	1	Co Tang.	Tangent	M
The same			1000	STATE OF THE PARTY OF		-

Degree 9.

M	Sine 1	Co-fine	Tangent	Co-Tang.	
201			-		-
30	9.217609	9.994003	9.223607	10.775393	30
31	9.218363	9.993982	9.224382	10.775618	29
32	9.219116	9.993960	9.225156	10.774844	28.
33	9.219863	9.993939	9.225929	10.774071	27
34	9.220518	9.993918	9.226704	10.773300	26
35	-	9.993897	9.227471	10.772529	25
35.	9.222115	9.993875	9.228240	10.771760	21
37	9.222361	9.973854	9.223007	10.770993	23
38	9.223505	9.993832	9.229774	10.770225	22 1
39	9.221349	9-993811	9.230539	10.769461	21
40	9.225092	9.993789	9.231302	10.768698	20
41	9.225833	9.993768	9.232055	10.767935	19
42	9.225573	9.993746	9.232825	10.767174	18
43	9.227311	9.993725	9.233586	10.766414	17
44	9.228018	9.993703	9.234345	10.765655	16
45		9.993681	9.235103	10.764897	15
46	9.229518	9.993650	9.235859	10.764141	14
47	9.230252	9.993638	19.236514	10.763386	13
48	9.230984	9.993616	9.237368	10.762532	12.
49	9.231715	9.9935.94	9.238120	10.761880	11
50		9.993572	9.238872	10.761128	10
51		9.993550	9.239622	10.760378	98
52		BERTHAM CONTRACTOR OF THE PARTY OF	9.210371	10.759629	
53	AND RESIDENCE AND ADDRESS OF THE PARTY OF	9.993506	9.241118		7
54	THE RESIDENCE OF THE PROPERTY AND THE PERSON NAMED IN	9.993484	9.241865		6
55	-	9.993462	9.242510	10.757390	5
56	ST.		9-243354	10.756646	4
57	9.237515		9.244097		
59		THE RESIDENCE OF THE PARTY OF T	9-244839	THE RESERVE OF THE PARTY OF THE PARTY.	
- 60		The second secon	9-245579	CONTRACTOR OF STREET OF STREET	I
1-	-		9.246319	10.753681	0
1	Co fine	Sine	Co Tang	Tangenr.	M
1	Service Desired	n	0	of the last of the	100

Degree 80.

	Degree 10.					
M	Sine	Co-fine	Tangent	Co-Tang.	1	
0	9.239570	9.993351	9.246310	10.753681	60	
1	9.210385	9.993329	9.247057	10.752943	59	
2	9.241101	9.993307	9.247794	10.752206	58	
3	9.241814	9.993284	9.248530	10.751470	57	
4	9.242526	9.993262	9.249264	10.750736	56	
5	9.243237	9-993240	9.219998	10.750002	55	
6	9.243947	9.993117	9.250730	10.749270	54	
7 8	9.244656	9.993195	9.251461	10.748539	53	
8	9.245363	9.993172	9.252191	10.747809	52	
9	9.246070	9.993149	9.252920	10.747080	51	
10	9.245775	9.993127	9.253648	10.745352	50	
11	9.247478	9.993104	9.254374	10.745626	49	
12	9.248181	9.993011	9.2552 0	10.744900	48	
13	9.248883	9-993059	9.255824	10.744176	47	
14	9-249583	9.993036	19.256547	10.743453	46	
15	9.240292	8.883013	9.257269	10.742731	45	
16	9.250980	9.992990	9.257990	10.742010	44	
17	9.251677	9.992967	9.258710	10.741290	43	
18	9.252373	9.992944	9.259429	10.740571	42	
19	9.253057	9.992921	9.260146	10.749854	41	
20	9.253761	9.992898	9.260863	10.749137	40	
21	9.254453	9.992875	9.261578	10.738422	39	
22	9.255144	9.992852	9.262292	10.737708	38	
23	9.255834	9.992829	9.263005	10:736995	37	
24	9.256523	9.992805	9.263717	10.736283	36	
25	9.257211	9.992783	9.254428	10.735572	35	
25	9.257898	9.992759	9.265138	10.734862	34	
27	9.258583	9.992736	9.265847	10.734153	33	
28	9.259268	9.992613	9.266555	10.733445	32	
29	9.259951	9.992690	9.267251	10.732739	31	
30	9.260633	9.992666	9.267957	10.732033	30	
1	Go sine	Sine .	Co. Tang	Tangent.	M	
CONTRACTOR OF THE PARTY OF	NAME OF TAXABLE PARTY AND ADDRESS OF TAXABLE PARTY.	William State of the State of t	The second second	The second second	1000	

Degree 79:

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D		ĸ	м	L	C	v.

-	William Rolling	-	-	0.7 1	-
M	Sine	Co-sine	Tangent.	Co-Tang.	
30	9.250633	9.992666	9.257957	10.732033	30
31	9.251314	9.992643	9.268671	10.731329	29
32	9.251994	9.992619	9.259375	10.730525	28
33	9.252573	9.992595	9.270778	10.729923	27
34	9.263351	9-992572	9.271479	10.729221	26
35	9.254027	9-992549	9.271470	10.728521	25
3,6	9.264703	9.992525	9.272178	10-727822	21
37	9.265378	9.992501	9.272876	10.727124	23
38	9.266051	9.992479	9-273573	10.726427	22
39	9.266723	9.992454	9.974269	10.725731	21
40	9.257395	9.992430	9.271964	10.725036	20
41	9.268065	9.992405	9.275658	10.724342	19
42	9.268734	9.992382	9.276351	10.723649	18
43	9.259102	9.992362	9-277043	10.722957	17
44	9.270069	9-992335	19.277734	10.722267	16
45	9.270735	9.992311	9.278424	10.721567	15
46	9.271400	9.942237	9.279113	10 720887	14
47	9.272053	9.992253	19.279801	10.720199	13
148	9.272726	9.992239	19.280488	10.719512	12
49	9.273388	9.992214	9.281174	10.718826	II
50	9.274049	9.992190	1 9.281858	10.718142	IO
51	9.274708	9.992166	9.282542	10.717458	8
52	19.275367	9.992142	9.283225	10.716775	8
53	9.276025	9.992113	9.283907	10.716093	7
54	9.276681	9.992003	9.284589	10.715412	6
155	9.277337	9.992069	9.285268	10.714732	5
56	9.277991	9.992045	9.295945		4
5.7	9.278535	9.992020	9.236624	10.713376	3
53	9.279297		9.287301	10.712590	2
159			9.287977	10.712023	I
130	9.290599	9-991947	9.288552	10.711348	0
1	Co-sine	Sine	Co-Tang.	Tangent.	M
			TO STATE OF THE PARTY OF THE PA	STATE OF THE PERSON	1333

Degree 79.

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	egree	T	7
~	CEICC	A	1 .
	Contract of the Contract of th		

M	Sine	Co fine	Tangent	Co-Tang.	[1				
0	9.280599	9.991947	9.288652	10.711348	60				
1	9.281229	9.991922	9.289326	10.710574	59				
2	9.281897	9.991897	1 9.289999	10.710001	58				
3	9.292544	9.991873	9.290671	10.709329	57				
5	9.283190	9.991848	9.291342	10.708658	56				
5	9.283835	9.991823	9.292013	10.707987	55				
6	9.2 4480	9.991799		10.707318	54				
8	9.285124	9.991774	If the telephone with the property of the contract of the cont	10.706550	53				
177.354	9.285766	9.991749	9.295717	10.705983	52				
10	9.285408	9-991724	A STATE OF THE PARTY OF THE PAR	10.705316	51				
11	9.287048	9.991699	9.295349	10.704651	50				
12	9-237683	9.991674	THE RESERVE OF THE PARTY OF THE	10.703987	49				
13	9.288326	9.991649	The State of the S	10.703323	43				
14	9.299600	9.991621	9.297339	10.702661	47				
15	9.290235	9.991599	9.298001	10.701999	46				
16	9.290870	9 991 574	11-	10.701338	45				
MICHIGANIA	9.291504	9.991549	.299322	10.700678	44				
17	9.292137	9.991521	9.300538	10.700020	43				
19	9.292768	9.991473	9.301295	10.698105	42				
20	9.273399	9.991448	9.301951	10.698749	40				
21	9.294029	9.991422	9.302507	10.697393					
22	9.294658	9.991397	5.303251	10.696739	39				
23	9.295286	9.991372	9.303914	10.596086	37				
21	9.295913	9.991346	TO RECEIVE THE PROPERTY OF THE PARTY OF THE	10.695433	36				
2.5	9.296539	9.991321	9.305218	10.694782	35				
25	9.297164	9.991295	9.305857	10.594131	34				
27	9.297788	9.991270	9.306519	10.693481	33				
COLUMN TO SHARE THE PARTY OF TH	9.298412	9.991241	9.307168	10.642 32	32				
29	9.299034	9:991218	9.307916	10.592184	31				
30	9.299555	9.991193	9.308 163	10.591537	30				
16.1	Co sine	- Sine	Co Tang	Tangent	M				
3320	Section in the second section	D		or with the second second	-				

Degree 73.

T							
I)	P	O	2.	P	P	7	
D	~	务	м	·	-	 4	и

M	Sine	Co-fine	Tangent	Co Tang.	100
30	9.295655	9 991193	9.3084'3	10.69 537	30.
3.1	9.300276	9.991167	9:309109	10.690891	29
32	9.300845	9.991141	9.309754	10.690245	28
33	9.301514	9.991115	9.310399	10.689601	27
34	9.302132	9.991090	9.311042	10.683958	26
35	9.302749	9.991064	9.311685	10.688315	25
36	9.303364	9.991038	9-312327	10.687673	24
37	9.30397.9	9.991012	9.312968	10.687032	23
38	9.304593	9.990986	9-313668	10.685392	22:
39	9.305207	9.990950	9.314247	10.585753	21
40	9.305819	9.990934	9.314835	10.685115	20
41	9.306430	9.990908	9.31 5523	10.684477	10
42	9.307041	9.990882	9.316159.	10.683841	18
43	9.307550	9.990855	9.316795	10.693205	17
45	9.308867	9.990829	9.317430	10.632570	16
46	manufacture of the last of the		9.318054	10.681936	15
47	9.309474	9.990777	9.318697	10.681303	14
48	9.310585	9.990750	9.31 9330	10.680570	13
49	9.311289	9.999724	9.31 9961	10.680030	12
50	9.311899	9.990571	9.320592	10.679408	II
51	The second second		9.321222	10.674778	10
52	9.313097	9.990645	9.321851	10.678149	9
53	9.313698	9.990618	9,322479	10.677521	8
54	9.314297	9.940565	9.323106	10.676894	7
55	9.314897	9.990538	9.323733	10.676257	NAME OF
56	9.315495	9.490512	THE REAL PROPERTY AND ADDRESS OF		5
57	9.316092	9.990485	9.324993	10.675017	4
58	9.316689	9.990458	9.325231	10.674393	3
591	9-317284	9.990431	9.326853	10.673147	1
60	9.317879	9.490404	9.327475	10.672525	0
	Co sine	Sine	Co.Tang.	Tangent.	M
THE SALE	Contract of the Parket	A STATE OF THE PARTY OF THE PAR		THE RESERVE OF THE PERSON NAMED IN	

Degree 78.

Degree 12.

M	Sine	Co fine	Tangent	Co-Tang.	
0	9.317879	9.990404	9.327 175	10.672525	60
1	9.318473	9.990377	9.328095	10.671905	59
2.	9.319066	9.990351	9.328715	10.671285	58
3	9.319658	9.990324	9.329334	10.670366	57
4	9.322250	9.990297	9.329953	10.670047	56
5	9.320840	9.990270	9.320570	10.669430	55
6	9.321430	9.990242	9.331187	10.668813	54.
7 8	9.322019	9.990215	9.331803	10.668197	53
2000	9.322607	9.990183	9.332418	10.567582	52
9	9.323191	9.990161	9.332033	10.666957	51
10	9.323786	9.990134	9.333646	10.666354	50
II	9-324366	9.990107	9.334259	10,665741	49
12	9-321950	9.940075	9.334871	10.665129	COLUMN TO SERVICE STATE OF THE PARTY OF THE
13	9.325534	9.990052	9.335482	10.664518	47
14	9-326117	9.990025	9.336093	10.663907	D. 82 85
15	9.326699	9.99997	9.336702	married by tradering	45
16	9.327281	9.989970	9-337311	10.562689	44
17	9.327862	9.989912	9-337919	10.662031	43
18	9.323441	9.989915	9.338527	10.660867	41
19	9.329020	9.989887	9-339133	10.660261	40
20	9.329599	9.989850	9-339739	-	
21	9.330176	9.989932	9-340344	10.659556	38
22	9-330753	9.989801	19.340948	10.659052	37
23	9.331323	9.989777	9.341552	10.557845	36
24	9.331903	9.989749	9.342155	10.657243	35
25	9.332478	9.939721	AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED I	10.556642	34
25	9.333051	9.989693	9.343358	10.656042	33
27	9.333624	9.98,655	9.343958	10.655442	32
29	9.334195	9.939609	9.345157	10.654843	31
30	9.334766	9.989591	9.345755	10.654245	30
12	9.335337		Co Tang	Tangent.	M
1	Co-fine	Sine 1	1 CO I HIS	Jungene,	

T					-	-		
	13	63	•	10	130		2	
D	C	K	ы	C	C	22.3	4	

M	Sine	Co fine 1	Tangent	Co.Ting.	
30	9-335337	9 489581	9-345755	10.654245	30
31	9.335906	9.989553	9.346353	10.653647	29
32	9.336475	9.489525	9.346949	10.653051	23
33	9.337043	9.989597	9.347545	10.652455	27
134	9.337610	9.989469	9.318141	10.651859	26
35	9.338176	9.989441	9-343735	10.651265	25
36	9.338742	9.989413	9-319329	10.650571	24
37	9:339305	9-989384	9.349922	10.650078	23
38		9.939356	9.350514	10.619186	22
135	100000	9.989328	9.351106	10.548894	21
40	THE RESERVE AND PERSONS ASSESSMENT OF THE PE	9.989299	9. 251697	10.648303	20
-41		9.989271	9.352207	10.647713	19
42	the state of the s	9.589243	9.352376	10.647124	18
1-43	0 314030	9.989214	19-353465	10.545535	17
144	1 - 3.22-2	9.989185	9-354053	10.615947	16
45	THE REPORT OF THE PARTY OF THE	9.9/9157	9.354611	10.645350	15
46		9.989128	9.355227	10.644773	14
147	9. 41912	9.989100	9.355812	10.644187	13
48	0 0 16 -01	9.989071	9.355393	10.643602	12]
145	1/4	0.989042	9.355982	10.613018	111
50		9.989014	9.357556	10.642434	10
5	+ -1-(0+	9.988985	9.353149	10.541851	121
-50	1 2 2 1 8 2 1 2	9.988956	9.358731	10.641259	8
1.5	10 318 700	9.988327	9.359313	10.640687	76
15	1 - 24-242	9.988869	9.359893	10.639525	S. Contract of the
15			9.360474		1_5
50	1 - 2-2-1-	9.988811	9.361053	10.638947	, 4
5	AND THE PROPERTY AND PERSONS ASSESSED.	9.983782	9.361632	10.638369	
15	1	9.438754	9.362787	10.637 213	
6	1 0:)	9.988724	9-363254		_
1	Co sine	Sine	Co.Targ.	Tangent.	
-					-

Degree 77.

T							
D	P	C	25		63	2	
L	L	24	м	ч	u	м.	

M	Sine	1 Co fine	Tangent	Co-Tang.	1
0	9.352098	9.988;24	9.36336+	10.6,66,6	60
1	9.352635	9.983695	9.363940	10.635060	59
2	9.353181	9.988666	9.364515	10.635485	58
3	9.353726	9.983636	9.365090	10.634910	57
4	9.354271	9.988607	9.365664	10.63+336	56
5	-9.354185	9.988578	9.366237	10.633763	55
6	9-355358	9.588548	9.366810	10.633190	54
7 8	9.355901	9.988519	9.367382	10.632518	53
10000	9.356413	9.988489	9.367953	10.532047	52
10	9.356984	9.938460	9.368521	10.631475	51
II	9.357524	9.988430	9.369094	10.630906	50.
12	9.358064	9.588401	9.369563	10.630337	49
13	9.359141	9.588371	9.370232	10.629768	47
14	9.359679	9.988312	9.370799	10.52 633	46
15	9.350215	9.988232	9.37-1933	10.628067	45
16	9.360752	9.988252	9.372199	10.627501	44
17	9.361287	9.988223	9.373054	10.625936	43
18	9.361822	9.988193	9.373629	10.626371	42
19	9.362356	9.983163	9.374193	10.625807	41
20	2.362889	9.988133	9.374756	10.625244	40
21	9.363422	9.988103	9.375319	10.624681	39
22	9.363954	9.983073	9.375881	10.624119	38
23	9.364485	9.988043	9.376442	10.523558	37
24	9.355015	9.983013	9.377003	10.622997	36
25	9.365546	9.987983	9.377562	10.622437	35
25	9.366075	9.987953	9.378122	10.521878	34
27	9.366604	9.987922	9.378681	10.621319	33
28	9.367132	9.987892	9.379239	10.620751	32
29	9.367659	9.987362	9.379797	10.620203	31
30	9.368185	9.987882	9.380354	10.619646	30
	Co-sine	Sine	[So.Tang]	Tangent.	M

The state of the s						
		Degi	ree 13.		100	
M	Sine	Co fine	Tangent.	Co-Tang.	36	
30	9.368185	9.987832	9.380354	10.619546	30	
31	9.368711	9.937851	9.380910	10.619090	27	
32	9.369236	9.987771	9.381405	10.618514	28	
33	9.369761	9.987740	9.382021	10.617980	27	
34	9.370285	9.987710	9.382575	10.617125	26	
35	9.370808	9.987679	9.383129	10.616871	25	
36	9.371330	9.587649	9.383682	10.616318	21	
37	9.371852	9.987618	9.384234	10.615766	23	
38	9.372373	9.987583	9.384786	10.615214	22	
39	9.372894	9.987557	9-385337	10.6:4663	21	
40	9.373414	9.987526	9.385888	10.614112	20	
41	9.373933	9.987495	9.385438	10.613562	19	
42	9-374452	9.987465	91385987	10.613013	1.3	
43	9.374970	9.587434	9.387536	10.612464	17	
44	9.375487	9.987403	9.388084	10.611916	-16	
4.5	9.376003	9.987372	9.388531	10.611369	15	
46	9.376519	9.987341	9.389178	10 610822	14	
47	9.377035	9. 987310	9.389721	10.610276	13	
48	9.377549	9.987279	9.390270	10.609730	12	
49	9.378063	9.987248	9.390815	10.609185	II	
50	9.378577	9.987217	9.391360	10.603640	IO	
51.	9.379089	9.987186	9.391907	10.608097	9	
52	9.379501	9.987155	19.392457	10.607553	9	
53	9.380113	9.987124	9.392989	10.607011	7	
54	9.380624	9.987092	9.393531	10.606469	6	
55	9.381134	9.987061	9.394074	10.605927	5	
.56	9.331643	9.987030	9.394614	10.605385	4	
57	9.382152	9.986998	9.395154	10.604846	3	
58	9.382661	9.986967	9.395694	10.604306	2	
59	9.383168	9.986936	9.396233	10.503767	I	
-	9-383575	9.986904	9.396771	10.603229	0	
1	Co-fine	Sine 1	Co. Tang.	Tangent.	M	

Degree 14.

-	The state of the s				1
MI	Sine	Co sine	Tangent	Co-Tang.	_
0	9.383675	9.986904	9.395771	10.603229	60
1	9.384181	9.986873	9.397309	10.602591	59
2	9.38 1687	9.986841	9.397846	10.602154	58
5	9.385192	9.986809	19.399383	10.601617	57
4	9.385697	9.986778	9.398919	10.601081	56
5	9.386201	9.986,746	9.349455	10.600545	55
6	9.386701	9.985714	9.399990	10.600010	54
7 8	9.387207	9.985683	9.400521	10.599476	53
	9.387709	9.985651	9.401058	10.598942	52
10	9.388210	9.986619	9.401591	10.598409	51
-	THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER, THE OWNE				50
II	9.389211	9.986555	9.402656	10.597344	49
13	9.399711	9.985491	9.403718	10.596282	100000
14	9.390708	9.986459	9.404249	10.595751	47
15	9.391206	9.986427	9.404778	10.595222	45
16	9.391703	9.986395	9.405306	10.594693	44
117	9.392199	9.986863	9.405836	10.591164	43
18	9.392695	9.986338	9.406364	10.593636	42
19	9.393190	9.985299	9.406892	10.593608	41
20	9.393685	9.986266	9.407419	10.592581	40
21	9.394179	9.986234	9.407915	10.592055	39
22	9.394673	9.586201	9.408471	10.591529	138
123	9.395166	9.986169	9.408995	10.591001	137
24	9.395554	9.986137	9.409521	10.590479	136
25	9.396150	9.986124	9.410045	10.589954	35
25	9.396641	9.986072	9.410569	10.582431	34
27		9.936039	9.411092	10.588908	133
28	9.397621	9.986007	9.411615	10.588385	100
29	1 - 01	9.935974	9.412137	10.587863	131
130	The same of the same	9.985942	9.412658	10.587342	30
14.7] Co sine	Sine	1 Co Tang	Tangent	JM
No. of Concession,	DOMESTIC OF THE PARTY OF THE PA		The second secon		-

Degree 14.

M	Sine	Co-fine	Tangenr	Co-Tang.	
30	9.348500	9.985942	9.412658	10.587342	1 -0
31	9.399087	9.985939	9.413179	10.586821	30
32	9.399575	9.985876	9.413699	10.586301	29
33	9.400052	9.985843	9.414219	10.585781	27
34	9.400549	9.985811	9.414738	10.585262	26
35		9.985778	9.415257	10.585742	25
35	9.401520	9.985745	9.41 577.5	10.584225	24
37 38	9.402489	9.985679	9.416293	10.583707	23
39	9.402972	9.985646	9.417326	10.583190	22
40	9.403455	9.985613	9.417842	10.582674	21
41	9.403938	9.985580	9.418357	10.581642	20
42	9.101120	9.985547	9.418873	10.581127	19
43	9.404901	9.985513	9.419387	10.580513	18
41	9.405382	9.985480	9.419901	10.580099	17
45	9.405862	9.985447	9.420415	10.589585	15
46	9.405341	9.985414	9.420927	10.579072	14
47	9.406320	9.985380	9.421440	10.578560	13
48	9.407299	9.985347	9.421951	10.578048	12
50	9.408254	9.985280	9.422463	10.577537	II
51	9.408731	9.985247	-	10.577026	10
52	9.109207	9.985213	9.423484	10.576516	9
53	9.409632	9.985180	9-124503	10.576007	8
54	9.410157	9.985146	6.425011	10.575497	-7
55	9.410632	9.985112	9.425518	10.574480	6
.56	9.411106	9.985079	9.426027	10.573973	5
57	9.411579	9.985045	9.426534	10.573466	4
58	9.412052	9.985011	9.427041	10.572959	3
59	9.412524	9.984977	9.427547	10.572453	I
60	9.412996	9.984943	9.428052	10.571947	0
-	Co line	Sine f	Co Tang	Tangenr.	M

Degree 75.

Degree 15.

M	Sine	Co-fine	, Tangent,	Co-Tang.	200
-	Sinc	-		-	60
0	9.412996	9.984944	9.428052	10.571947	-
I	9.413467	9.984910	9.428557	10.571442	59
2	9.413938	9.984876	9.429067	10.570938	58
3	9.414408	9.984842	9.429566	10.570434	57
4	9.414878	9-984808	9.430070	10.569930	56
5	9-415347	9.984774	9.430573	10.569427	55
6	9.415815	9.984740	9.431075	10.568925	54
78	9.416283	9.984706	9.431577	10.568423	53
8	9.416850	9.984672	9.432079	10.567921	52
5.9	9-417217	9.98 637	9.432580	10.567420	51
IO	9.417684	9.984603	9.433080	10.566920	50
II	9.418149	9.984569	9.433580	10.566419	49
12	9.418615	9.984535	9.434080	10.565920	48
13	9.419079	9.984500	9.434579	10.565421	47
14	9.419544	9.984466	9.435078	10.564922	46
15	9.420007	9.984431	9.435576	10.564424	45
16	9.420470	9.984397	9.436073	10.563927	44
17	9.420933	9.984363	9.436570	10.563430	43
18	9.421395	9.984328	9.437067	10.562933	42
19	9.421856	9.984293	9.437563	10.561941	41
20	9.422317	9.984259	9.438059		40
21	9.422778	9.984224	9.438554	10.561446	39
22	9.423238	9.984189	9.439048	10.560952	38
23	9.423697	9.984155	9.439543	10.560457	37
24	9.424156	9.484120	9.440036	10.559964	36
25	9.424615	9.984085	9.440529	10.559471	35
25 26	9.425072	9.984050	9.441022	10.558978	34
27	9.425530	9.984015	9.441514	10.558486	33
28	9.425987	9.983980	9.442006	10.557994	1 - 100
29	19.426443	9.983945	9.442497	10.557503	31
30	9.426899		9.442988	-	30
	Co fine	Sine	Go-Tang.	Tangent	M

Degree 15.

M	Sine	Co-fine	Tancons	I.C. T				
30	9.416899	-		Co-Tang.				
Character of the last		9.983910	9.442988	10.557011	30			
31	9-127354	9.983875	9.413479	10.556521	29			
33	9.428264	9-983840	9-443968	10.556031	28			
34	9.428717	9.983805	9-444458	10.555542	27			
35	9.429170	9.983735	9.444947	10.555053	26			
36	9-439623	9.983699	9.445435	10.554565	25			
37	9.430075	9.983664	9.445923	10.554077	24			
38	9.430507	9.983629	9.446411	10.553589	23			
39	9.430978	9.983593	9-446898	10.553102	22			
40	9.431429	9.983558	9-447384	10.552616	21			
41	9.431879	9.983523	9-447870	10.552129	20			
42	9.432328	9.983487	9.448356	10.551644	19			
43	9.432778	9.983451	9.448841	10.551159	18			
44	9.433206	9.983416	9.449325	10.550674	17			
45	4-433674	9.983380	9.440294	10.550181	16			
46	9.434122	9.983345		10.549706	15			
47	9.434569	9.983309	9.450777	10.549223	14			
48	9.435016	9-983273	9-451743	10.548740	13			
49	9.435462	9.983238	9-452225	10.548257	12			
50	9.435918	9.983202	9.452706	10.547295	II			
51	9.436353	9.983166	9.453187	Charles and the Control of the Contr				
52	9-436798	9.983130	9.453668	10.546813	98			
53	9-437242	9.983094	9.454148	10.545852	DESCRIPTION A			
54	9.437686	9.983058	6.454629	10.545372	76			
55	9.438129	9.983022	9.455107	10.544893	CHARGE I			
56	9.438572	9.982986	9.455586	10.544414	5			
57	9.439014	9.982950	9.456064	10.543936	4			
58	9.439456	9.982914	9.456542	10.543458	3 2			
59	9.439897	9.982878	9.457019	10.542980	I			
60	9.430338	9.982842	9.457496	10.542503	0			
The same	Co fine	Sine	Co Tang	Tangent.				
	The Tangent, M							

Degree 74.

Degree 16.

10	N.	Sine 1	Co sine	Tangent	Co-Tang.	100
-	1000	9.440338	9.982842	9.457496	10.542503	60
		9.440778	9.982805	9.457973	10.542027	59
1	1 2	9.441218	9.982769	9.458449	10.541551	58
	3	9.441658	9.982733	9.458925	10.541075	57
1	4	9.442096	9.982696	9.459400	10.540600	56
1	5	9-442535	9.982560	9.459875	10.540125	55
-	6	9.442973	9.582623	9.460349	10.539651	54
1	7	9.443416	9.982587	9.460829	10.539177	53
	8	9.443848	9.982550	9.461297	10.538703	52
1	9	9.444284	9.982514	9.461770	10.538230	51
10	0	9.4447201	9.982477	9.462242	10.537758	50
1	II	9.445155	9.982441	9.162714	10.537285	49
II 80	12	9.445590	9.982404	9.463186	10.536814	48
888	13	9.446025	9.982367	9.463658	10.536342	47
85 SEC	14	9.446459	9.982330	9.464129	10.535401	46
1	15	9.446893	9.982294	9.454599	-	45
10 Min	16	9.447326	9.982257	5.165069	10.534931	44.
20 3 10	17	9.447759	9.982220	9.465539	10.534461	43
-	18	9.448191	9.982183	9.466003	10.533992	42
1	Ly	9.448623	9.982146	9.456476	10.533055	41
1	20	9.449054	9.982109	9.466945		40
1	21	9.449485	9.982072	9.467413	10.532587	39
k	22	9.449915	9.982035	9.467880	10.532120	38
1	23	9.450345		9.468347		37 36
	24	9.450775	9.981961	9.469280	10.530720	35
	25	9.451203	A AA	The literature operations of	10.53-254	100000
3	26	9.451632	9.981886	9.469746	10.529789	34
10	27	9.452060	9.981849	9.470211		
1	28	9.452488	9.981812	9.471141	10.528859	31
1	29	9-452915	9.981774	9.471605		30
1	30	9.453342		Co-Tang	-	353
177	8	Co-sine	Siue	Co-1 ang	Imagent	-

Degree 73.

Degree 16.

M	Sine	Co fine	Tangent	Co-Tang.	
30	9.453342	9.981737	9.171605	10.528395	30
3.1	9.453768	9.981699	9.472068	10.527931	29
32	9-454194	9.981662	9.472532	10.527468	28
33	9-454619	9.981624	9.472795	10.527005	27
34	9-455044	9.981587	9.473457	10.525543	25
35	9.455469	9.981549	9.473919	10.526081	25
36	9.455892	9.931512	9.474381	10.525519	24
37	9.456316	9.981474	9.474842	10.525158	21
38	9.4:6739	9.941436	9.475393	10.524695	22
39	9.457162	9.981393	9.475763	10,524237	21
40	9-157584	9.981361	9-176223	10.523777.	
41	9.459006	9.981323	9.476683	10.523317	19
42	9.458427	9.981285	9.477142	10.522858	18
43	9.158848	9.981247	9.477601	10.522399	17
44	9.459253	9.981209	9.478059	10.521941	THE PERSON
45	9.459584	9.931171	9.478517	10.521483	15
46	9.460108	9.981133	9.478975	10.521025	14
47	9.460527	9.981095	9-479432	10.520568	13
48	9.460946	9.981057	9.479889	10.519555	II
49	9.461364	9.981019	9.480345	10.519199	IO
50	9.461782	9.980980	1-		-
51	9.452199	9.980912	9.481257	10.518743	8
52	9.462516	9.980904	9.481712	10.518288	7
53	9.463032	9.980866	9.482621	10.517379	6
54	9.463448	9.980789	9.483075	10.516925	5
5.5	9.463864	The second second	The second of the second of the	-	
55	9.464279	9.980750	9.483528	10.516471	4 3
57	19.464694	9.980712	9.483982	10.515565	
58	9.455108	9.980635	9.484887	10.515113	I
59	9.465522	9.980596	9.485339	10.514661	0
1	Co-sine	Sine	Co-Tang.	Tangent.	M

Degree 73.

D	es	re	e	1	7.
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M	Sine	Co fine	Tangent	Co-Tang.	1		
10	9.465935	9-980596	9.485339	10.514661	60		
1	9.466348	9.980558	9-485791	10.514209	59		
12	9.466761	19.980519	9.486242	10.513758	58		
3	9.467173	9.980480	9.486693	10.513307	5.7		
4	9.467585	9.980441	9.487143	10.512857	56		
5	9.467996	9.980403	9.437593	10.512407	55		
6	9.468407	9.980364	9.483043	10.511957	54		
7	9.468817	9.980325	9-483493	10.511507	53.		
8	9.469227	9.980285	9.483941	10.511059	52		
9	9.465637	-9-930247	9.489390	10.510610	51		
In	9.460446	9.980208	9.489838	10.510162	50		
II	9-470155	9.980169	9-490286	10.509714	49		
12	9.471863	9.980130	9-490733	10.509267	48		
13	9.471071	9.980091	9.491180	10.508820	47		
14	9.471678	9.980052	9-491627	10.508373	46		
15	Annual or Management of the		9-492073	Company of the later of the lat	45		
16	9.472492	9-979973	9-492519	10.507481	44		
17	9.472898	9-979934	9-492964	10.506590	43.		
19	9.473710	9.979855	9.493854	10.506145	42		
20	9.474115	9.979816	19.494299	10.505701	40		
21				-	-		
22	9.474519	9.979776	9-494743	10.505257	39		
23	9.475327	9.979697	9.495630	10.504370	37		
21	9.475730	9.979658	9.496073	10.503928	36		
25	9.476133	9.979618	9.496515	10.503485	35		
25	9.476536	9.979578	9.496957	10.503043	34		
27	9.476938	9.979539	9.497399	10.502601	33		
28	9.477340	9.979499	9.497840	10.502160	32		
29	9.477741	9-979459	9.493282	10.501718	31		
30	9.478,142	9.979419	9-498722	10.501278	30		
	Co-sine	Sine	Co-Tang	Tangent.	M		
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-				CAMPAGE STREET, SALES	DECEMBER 1		
M	Sine	Co sine	Tangent	Co Tang.			
30	9.478142	9.979119	9.198722	10.501278	30		
31.	9.478542	9.979380	19.499163	10.500837	29		
3.2.	9.173942	9.979310	9.499602	10.500398	28		
33	9.479342	9.979300	9.500043	10.499958	27		
3.4	9-179741	9.979250	19.500+81	10.499519	25		
35	9.480140	9.979220	9.500920	10.499080	25		
36	9.480538	9.979180	9.501359	10.498641	24		
37	9.480936	9.979140	9.501797	10.498203	23		
38	9.481334	9.979099	9.502234	10.497765	22		
32	9.481731	9.979059	9.502572	10.497328	21		
40	9.482123	9.979719	9.503107	10.496891	20		
41	9.482525	9-978980	9.503546	10.496454	19.		
42	9.482921	9.978439	9.503982	10.496018	18		
43	9.483316	9.978898	9.504418	10.495582	17		
44	9.483711	9-978858	9.504854	10.495146	16		
4.5	9.484106	9.978817	9.50528.9	10.494711	15		
46	9.484501	9.978777	9.505724	10.494216	14		
47	9.484895	9.978736	9.506158	10.493841	13		
48	9.485289	9.978695	9.506593	10.493407	12		
49	9.485682	9.978655	9.507026	10.492973	II		
50	9.486075	9.978515	9.507459	10.492540	10		
51	9.186467	9.978574	9.507892	10.491107	9		
52	9.486859	9-978533	9.508326	10.491674	NUMBER OF		
53	9.487251	9.978493	9.508759	10.491241	7 6		
54	9.487642	9-978452	9.509181	10.490809	200 840 200		
55	9.489033	9.978411	9.509622	10.490377	5		
56	9.488424	9.973370	9.510044	10.489946	4		
57	9.488814	9.978329	9.510480	10.489515	3		
58	9.489204	9.978283	9.510916	10.489084	2		
59	9.489593	9-978247	9.511346	10.488654	I		
60	9.489982	9.978206	9.511776		-		
	Co-sine	Sinc	Co-Tang.	Tangent.	M		
-							

Degree 72.

Degree 18.

M	Sine	Co-fine ,	, Tangent	Co-Tang.	200
-0	9.489982	9.978235	9.511776	-	1
I	-	9.978165	-	10.488224	60
2	9.490371	9.978124	9.512205	10.487794	59
3	9.490759	9.978033	9.513054	10.487265	58
4	9.491534	9.978012	9.513493	10.486936	57
5	9.491922	9.978000	9.513921	10.485079	56
6	9-492308	9.977956	9.514349	10.485651	55
7 8	9.492695	9.977918	9.514777	10.485223	54
8.	9.493080	9.977877	19.515204	10.484795	53
9	9.493466	9.977835	9.515631	10.484369	52
10	9.493851	9-977794	9.516057	10.483942	51
II	9.494236	9.977752	9.516484	10.483516	
12	9.494620	9.977711	9.516910	10.183090	49
13	9.495005	9.977669	9.517335	10.482565	47
14	9.495388	9.977528	9.517751	10.482239	46
15	9.495771	9-977585	9.518185	10.481814	45
16	9.496154	9.977544	9.518610	10.481390	41
17	9.496537	9.977503	9-519034	10.485956	43
	9.496919	9.977461	9.519458	10.480542	42
19	9.497301	9.977377	9.520305	10.479595	41
21	-		9.520728	-	40
22	9.498053	9.977335	9.521151	10.479272	39
23	9.498821	9.977251	9.521573	10.478427	
24	9.499204	9.977209	9.521995	10.478005	37
25	9.499584	9-977167	9.522417		36
26	9.499963	9.977125	9.522838	10.477162	35
27	9.500342	9.977083	9-523259	10.476741	34
28	9.500723	9.977041	9.523679	10.476325	33
29	9.501099	9.975999	9.524109	10.475900	31
30	9.501476	9.976956	9.521520	10.475480	30
1	Co sine	Sine	Co-Tang	Tangent	M
1	-				

Degree 18.

-	Cin	00		~ ~			
M	Sine	Co-fine	Tangent.	Co-Tang.	1		
30	9.501476	9.977956	9.524520	10.475080	30		
15	9.501854	9.976914	9.521939	10.475060	29		
32	9.502231	9.976872	9.525359	10.474641	28		
33.	9.502507	9.976830	9.525778	10.474222	27		
34	9.502981	9.976787	9.526197	10.473803	26		
35	9.503360	9.976745	9.526615	10.473385	25		
36	9.503735	9.975702	9-527033	10.472967	24		
37	9.504110	9.976660	9.527451	10.472549	23		
38	9.504485	9.976517	9.527868	10.472132	22		
39	9.504840	9.976574	9.528285	10.471715	21		
40	9.505234	9.976532	9.528701	10.471298	20		
41	9.505608	9.976489	9.529118	10.470881	19		
42	9.505981	9.976446	9.529535	10,470465	18		
43	9.505354	9.976404	9.529950	10.470049	17		
44	9.506727	9.976361	9.530366	10.469634	16		
45	9.507099	9.976318	9.530781	10.469219	15		
46	9.507471	9.976275	9.531169	10 468804	14		
47	9.507843	9.976232	9.531611	10.468389	13		
48	9.508214	9.976185	9.532025	10.467975	12		
49	9.508585	9.976146	9.532136	10.467561	11		
50	9.508955	9.975 103	9.532852	10.467147	IO		
51	9.509326	9.976060	9.533266	10.466784	9		
52.	9.509696	9.976017	9.533679	10.466321	8		
53	9.510065	9.975973	9.534092	10.465908	7		
54	9.510434	9.975930	9-534504	10.465496	6		
55	9.510303	9.975887	9.534916	10,465084	_5		
56	9.511171	9.975814	9.535328	10.464672	4		
57	9-511540	9.975800	9.535739	10.464251	3		
58	9.511907	9.975757	9.536150	10.453849	2		
59	9.512275	9.975713	9.536561	10.463439	1		
50	9.512542	9.975670	9.536972	10.463028	0		
9.3-8	Co sine	Sine	Co. Tang.	Tangent.	M		

Degree 71.

Degree 19.

M	Sine	Co-fine	Tangent	Co-Tang.	
0	9.512642	9.975670	9.536972	10.463028	60
	9.513009	9.975626	9.537382	10.462618	59
2	9.513375	9-975583	9-537792	10.462208	58
5	9.513741	9.975539	9.538202	10.461798	57
4	9.514107	9-975496	9.538610	10.461389	56
5	9.514472	9.975452	9.539020	10.460980	55
TOTAL PROPERTY.	9.514837	9.975408	9.539429	10.460571	54
1 8	9.515202	9.975364	9-539837	10.460163	53
9	9.515566	9.975321	9.540245	10.459755	52
10	9.515930	9.975277	9.540653	10.459347	51
111	Company of the last of the las	9.975233	E CONTRACTOR PROPERTY.	10.458532	50
12	9.516657	9.975186	9.541468	10.458125	49
13	9.517382	9.975145	9.542281	10.457719	48
14	9.517745	9.975057	9.542688	10.457312	47
15	9.518107	9.975013	9.543094	10.456905	45
16	named and department	9.974969	9.543499	10.456501	-
137	9.518829	9.974925	9.543905	10.456095	44
18		9.974880	9.544310	10.455690	42
19	1	3.974836	9.544715	10.455285	41
20	9.519911	9-974792	9.545119	10.454881	40
21	1 1 1 1 1 1	9.974747	9.545524	10.454476	30
22	1777	9.974703	9.545927	10.454072	39
23		9.974659	9.546331	10.453669	137
24			9.546735		36
25		-	9.547138	Buttersachustenschaften	35
26		9-974525	9.547540	The second secon	34
27		9.974480	9.547943		33
29		9.974436	9.548345	10.451655	13-
30		The state of the s	9.549149		31
12	Co fine	Sine	Co-Tang	Annual Confession and Published Street, Texas, Stre	30
-	1 co june	, othe	11Co-Lang	- Langeut	JM

Degree 19.

M	Sine	Co-fine	Tangent	Co-Tang.	1 3 5		
30	9.523495	9-974346	9-549149	10.450851	30		
31	9.523851	9.974302	9.549550	10.450450	29.		
32	9.524208	9.974257	9.549951	10.450049	28		
33	9.524564	9.974212	9.550352	10.449648	27		
34	9.524920	9-974167	9.550752	10.449048	26		
35	9-525275	9.974122	9.551152	10.448848	25		
36	9.525630	9-974077	9-551552	10.448448	24		
37	9.525984	NAME OF TAXABLE PARTY.	9.551952	10.448048	23		
38	9.526339	9.973987	9-552351	10.447649	22		
39	9.526693	9-973942	9.552750	10.447250	21		
40	9.527046	9.973897	9.553149	10.446851	20		
41	9.527400	9.973852	9-553548	10.446452	19		
42	9-527753	9.973807	9.553946	10.446054	180		
43	9.528105	9.973761	9.554344	10.445656	17		
44	9.528458	9.973716	9.554741	10.445259	16		
45	9.528810	9.973671	9.555139	10.444861	15		
45	9.529161	9.973625	9.555536	10.44464	14		
47	9.529513	9 973580	9.555932	10.444068	13		
48	9.529864	9.973535	9.556329	10.443671	12		
49	9.530214	9.973439	9.556725	10,443257	II		
50	9.530565	9.973443	9.557121	10.442876	IO		
51	9.530915	9.973398	9-557517	10.442483	8		
52	9.531265	9.973352	9-557912	10.442088	81		
53	9.531614	9.973307	9.558308	10.441693	7		
54	9.531953	9.973261	9.558702	10.441298	6		
55	9.532312	9.973215	9.559097	10.440903	5		
56	9.532661	9.973169	9-559491	10.440509	4		
57	9.533099	9.973123	9.559885	10.440115	3		
DESTRUCTION OF	9.533357	9.973078	9.560279	10.439721	2		
59	9.533704	9.973032	9.560673	10.439327	I		
-	9.534052	9-973986	9.561066	10.438934	0		
1	Co-sine	Sine 1	Co-Tang-	Tangent	M		

Degree 20.

M	Sine	Co-fine	Tangent	Co-Tang.	
-0	9.534052	9.972986	9.561066	10.438934	60
	9.534399	9.972940	9.561459	10.438541	59
2	9.534746	9.972894	9.561851	10.438148	58
3	9.535091	9.972848	9.562244	10.437756	57
4	9.535437	9.972901	9.552636	10.437364	56
5	9.535782	9.972755	9.563028	10.436972	55
6	9.536129	9.972709	9.563419	10.436580	54
7 8	9.536474	9.972663	9.563811	10.436189	53
8	9.536818	9.972617	9.564202	10.435798	52
9	9.537163	9.972570	9.564592	10.435407	51
10	9.537507	9.972524		10.434627	50
II	9.537851	9.972477	9.565373	10.434237	49
12	9.538194	9.972431	9.566153	10.433847	48
13	9.538537	9.972338	9.566542	10.433457	46
14	9.539222	9.972291	9.566932	10.433068	45
15	9.539566	9.972215	9.567320	10.432679	44
16	9.539907	9 972198	9.567709	10.432291	43
18	9.540249	9.972151	9.568097	10.431902	42
19	9.540590	9.972105	9.568486	10.431514	41
20	9.540931	9.972058	9.569873	10.431126	40
21	9.541272	9.972011	9.569261	10.430739	39
22	9.541612	9.971964	9.569648	10.430351	39
23	9.541953	9.971917	9.560035	10.429964	37
24	9.542292	9.971870	9.560402	10.429578	36
25 25	9-542632	9.971823	9.560809	10.429191	35
25	9.542971	9.971776	9.571195	10.428419	34
27	9-543310	9.971729	9.571581	10.428033	33
28	9.543649	9.971682	9.571567	10.427643	32
29	9.543987	9.971635	9-572738	10.427262	30
30	Co-fine	Sine	Go Tang.	Tangent	M
1 2 3			No. of the same of the same		-

Degree. 20.

MI	. Sine	Co-fine	Tangen:	Co Tang.	-
30	9.544325	9.971588	9.572738	10.427262	30
31	9.544663	9.971540	9.573123	10.426877	29
32	9.545000	9.971492	9.573507	10.426492	28
33	9.545338	9.971446	9.573892	10.426109	27
34	9.545674	9.971398	95.74276	10.425724	26
35	9.546011	9.971351	9.574660	10.425340	25
36	9.546347	9.971303	9.575044	10.424956	24
	9.546583	9.971256	9.575427	10.424573	23
37	9.547019	9.971208	9.575810	10.421189	22
39	9.547354	9.971161	9.576193	10.423807	21 20
40	9.547689	9.971112	9.576576	10.423424	
41	9.548024	9.971065	9.576958	10.423041	19
42	9.548358	9.971018	9.577341	10.422659	18
43	9.548693	9.970970	9.577723	10.422277	17
44	9.549026	9.970923	9.578104	13.421896	16
45	9.549360	9.970874	9.578486	10.421514	15
46.	9.549693	9.970325	9.578867	10.421133	14
47	9 550025	9.970779	9.579248	10.420752	13
48	9.550359	9.970731	9.579628	10.420371	12
49	9.550692	9.970683	9.580009	10.419991	II
50.	9.551021	9.970634	9.580389	10.419511	
51	9.551355	9.970586	9.530769	10.419231	8
52	9.551687	9.970538	9.581149	10.418851	SCHOOL SECTION 1
53	9.552018	9.970190	9.58:528	10 418472	7
54	9.552349	9.970112	9.581907	10.418092	A STATE OF
55	9.552680	9.970391	9.582285	10.417713	5
56	9.553010	9.970345	9.582665	10.417335	4
57	9.553340	9.970297	9.583043	10.416956	3 2
58.	9.553670	9.970219	9.583422		I
159	9.554000	9.970200	9.583800	10.416200	0
.60	9.554329	9.970152	9.584177	-	-
1	Co-sine	I Sine	'Co.Tang	Tangent	IM

Degree 69.

Degree. 21.

M	Sine	Co-fine	Tangent	Co-Tang.	1
0	9.554329		9.584177	10.415822	60
1	9.554558	9.970105	9.584555	10.415415	59
2	9.554987	9.970055	9.584932	10.415068	58
3	9.555315	9.970006	9.585308	10.414591	57
4	9.555643	9.959957	9.585686	10.414314	56
5	9.555971	9.969909	9.586062	10.413938	55
6	9.556299	9.969860	9.585439	10.413561	54
7	9.556626	9.969811	9.586815	10.413185	53
8	9.556953	9.959762	9.587190	10.412800	52
9	9.557279	9.969715	9.587566	10.412434	51
10	9.557606	9.969665	-	Name of Street, or other Desiration of the last of the	50
II	9-557932	9.959616	9.588316	10.411684	49
12	9.558258	9.969567	9.588691	10.411309	48
13	9.558583	9.969518	9.589440	10.410560	47
14	9.559234	9.969569	9.5898:4	10.410185	45
15	9.559558	9.969419	9.590188	10.409812	1
16	9 559883	9.969370	9.590561	10.409438	44
17	9.560207	9.969272	9.590935	10.409065	42
19	9.560531	9.969223	9.591308	10.408692	41
20	9.560855	9.969173	9.591631	10.408319	40
21	9.561178	9.9691241	9.592054	10.407946	39
22	9.561501	9.969075	9.592426	10.407574	38
23	9.561821	9.969035	9.592798	10 407201	37
24	9.562146	9.968976	9.593170	10.405829	35
25	9.562468	9.968926	9.593542	10.406457	35
25	9.562790	9.958877	9.593914	10.406086	34
27	9.563112	9.968827	9.594285	10.405715	33
28		9.963777	9.594656	10.405344	32
29	9.563754	9.968728	9-595027	10.405073	31
30	9.564075	9.958678	9.595397	10.404602	30
	Co-sine	Sine	Co.Tang.	Tang.	M
MINISTER STATE	STREET, STREET	5		THE RESERVE OF THE PERSON NAMED IN	

Degree 21.

M	Sine	Co-sine	Tangent.	Co-Tang.	1-11
30	9.564075	9.968678	9.595397	10.404602	30
31	9.564396	9.968628	9.595768	10.404232	29
32	9.564716	9.963578	9.596138	10.403862	28
33	9.565036	5.968528	9.596508	10.403492	27
34	9.565355	9.968478	9.596878	10.403122	26
35	9.565675	9.968428	9.597247	10.402753	25
36	9.565995	9.958378	9-597616	10.402384	21
37	9.566314	9.968328	9.597985	10.402015	23
Maria de la California	9.566632	9.968278	9.598354	10.401646	22
39	9.566951	9.958228	9.598722	10.401277	21
40	9.567259	9.968178	19.599091	10.400909	20
41	9.567587	9.968128	9.599459	10,400541	19
42	9.567.904	9.968078	9.599827	10.400173	18
43	9.568222	9.968027	9.600194	10.399438	17
45	9.568855	9.967977	9.600562	10.399071	16
46	Territoria Company Company	THE RESERVE AND PERSONS NAMED IN	9.601296	10 398704	15
47	9.569172	9.967876	9.601296	10.398337	14
48	9.569 04	9.957.775	9.602029	10.397971	13
49	9.570120	9.957725	9.602395	10.397605	12
50	9.570435	9.967674	9.602761	10.397239	10
51	9.570751	9.957623	9.603127	10.395873	-
52	19.571065	9.967573	9.603493	10.396507	98
53	9.571380	9.957522	9.603858	10.396142	7
54	9.571695	9.967471	9.604223	10.395777	6
55	9.572009	9.967420	9.604588	10.395412	5
156	9.572322	9.967370	9.604953	10.395047	4
157	9.572636	9.957319	9.605317	10.394683	
58	9.572949	9.967268	9.605681	10.394318	3 2
159	9.573263	9.967217	9.606046	10.393954	I
60	9.573575	9.967166	9.606409	10.393592	0
-	Co-fine	Sine	Co-Tang.	Tangent.	M

Degree 68.

Degree 22.

M	Sine	Co-fine	Tangent	Co-Tang.	
0	9.573575	6.957166	9.505409	10.393590	60
I	9.573838	9.967115	9.506773	10.393227	59 58
2	9.574200	9.967064	9.607136	10.392853	58
3	9.574512	9.957012	9.607500	10.39250)	57
4	9.574824	9.966961	9.607862	10.392137	56
5	9.575135	9.966910	9.608 225	10.391774	55
6	9.575447	9.966859	9.509 588	10.391412	54
7	9.575758	9.966807	9.608950	10.391050	33
8	9.576058	9.956756	9.609312	10.390538	52
9	9.576379	9.966705	9.609574	10.389964	51
IC	9.576689	9.956653	9.500036	Contraction of Participation and Participation in	50
II	9.576999	9.966602	9.510397	10.339603	49
12	9.577309	9.966550	9.610758	10.388880	THE REAL PROPERTY.
13	9.577618	9.966499	9.611119	10.383520	47
14	9.577927	9.966395	9.611841	10.388159	45
15		-	Committee or other Designation of the last	10.387799	-
16	9.578545	9.966344	9.612201	10.387438	44 43
17	9.578853	9.966240	9.612521	10.387078	42
18	9.579469	9.966188	9.613281	10.385719	41
19	9.579777	9.966136	9.613641	10.386359	40
20	9.580034	9.966084	9.514000	10.386000	30
21	9.580392	9.966032	9.614359	10.385641	39.
22	9.580698	9.965980	9.614718	10.385232	37
23	9.581005	9.955928	9.615077	10.384923	36
25	9.581311	9.965876	9.615435	10.384555	35
26	9.581618	9.955824	9.615793	10.384207	34
27	9.581923	9.955772	9.515151	10.383448	33
28	9.582229		9.616509	10.383491	32
29	9.582534	9.965668	9.616357	10.383133	31
30	9.582840	9.965615	9.617224	10.382776	30
1	Co fine	Sine	Co Tang.	Tangent	M
-			-	and the second second	19/2/19

Degree 67.

Degree 22.

M	Sine	Co-fine	Tangent	Co.Tang.	
30	9.582840	9 955515	9.617224	10.382776	30
31	9.583144	9.965553	9.617581	10.382118	29
32	9.583449	9.965511	9.617938	10.382051	28
33	9.583753	9.955458	9.618295	10.381705	27
34	9.584058	9.9.5405	9.618652	10.381348	26
35	9.584361	9.965353	9.519008	10.380992	25
36	9.584655	9.965301	9.619364	10.380635	24
37	9.584968	9.955248	9.619720	10.380279	23
38	9.585271	9.965195	9.520076	10.379924	22
39	9.535574	9.965143	9:620432	10.379563	20
40	9.585877	9.965090	9.620787	10.379213	-
41	9.586179	9.955037	9.621142	10.378358	19
42	9.586181	9.954984	9.521497	10.378503	17
43	9.586783	9.954931	9.522352	10.378148	16
44	9.587385	9.964825	9.622205	10.377793	15
45		9.954772	COMMENT OF THE PARTY OF		14
46	9.587687	9.954719	9.522915	10.377085	13
47	9.588239	9.961666	9.623623	10.376377	112
49	9.583589	9.954613	9.521976	10.376004	III
50	9.588890	9.951560	9.521330	10.375670	10
51	9.5 19190	9.954507	9.521633	10.375317	19
52	9.589489	9.954154	9.525035	10.374964	8
53	9.589789	9.454100	9.525388	10.374612	17
54	9.590088	9.954347	9.625741	10.371259	6
55	9.590387	9.961291	19.525093	10.373907	5
56	9.590685	9.9542407	9.626415	10.373555	4
57	9.590984	9.964187	9.625797	10.373203	1 3
58	9.591282	9.964133	9.527149	10.372350	2
59	9.591530	9.954085	9.627501	10.372499	I
60	9.591978	9.961025	19.527852	10.372148	10
1	Co sine	Sine i	Co.Tang.	Tangenc.	iM

5 %						22.50		
2 1	13	12	**	0	0	~	13	
D		M	ж	100		Lie	1	Į
and the	No.		м	to the last	ыв			ı

M	Sine	Co fine	Tangent	Co-Tang	1.0
0	9.591878	9.95 4026	9.627852	10.372148	60
I	9.592175	9.963972	9.623203	10.371797	59
2	19.592473	9.963919	19.628554	10.371244	58
3	9.592770	9-953865	9.623905	10.371095	57
4	9.593067	9.963811	19.629255	10.370744	56
5	9.593363	9.963757	9.629,06	10.370391	55
6	9.593659	9.963703	9.529955	10.370044	54
7 8	9.593955	9.953650	9.530306	10.369594	33
100 1 V	9.594251	9.953595	9.530655	10.369344	52
9	9.591547	9.963542	9.531,005	0.368995	51
IC	9.194842	9.953488	9.531354	10.368515	50
11	9.595137	9.963433	9.631704	10.358926	49
12	9.595432	9.963379	9.63 053	10.367947	48
13	9.595727	9.963325	9.632401	10.367598	47
14	9.596021	9.953271	9.632750	10.367250	46
15	9.596315	9.963217	9.633098	10.356901	45
16	9.596610	9.963102	9.533447	10.366553	44
17	9.595903	9.963108	9.533795	10.366205	43
	9.597196	9 962054	9.634043	10.355857	42
19.	9.597490	9.962997	9.634490	10.365510	4.1
20	9.597783	9.962945	9.634838	10.365162	40
21	9.598075	9-952892	9.635185	10.364815	39
22	9.598368	9.962836	9.635530	10.364468	38
23	9.598660	9.952781	9.635879	10,364121	37
24	9.598952	9.952726	9.536226	10.363774	36
25	9.599244	9.962672	9.636572	10.363428	35
26	9.599536	9.952617	9.636918	10.363081	34
27	9.599827	9.952562	9.637205	10.362735	33
28	9.600118	9.962507	9.637611	10.362389	32
29	9.600409	9.962453	9.637956	10.362044	31
30	9.600700	9.962398	9.638302	10.361698	30
1	Co-sine	Sine	Co Tang.	Tangent	M

	Degree 23.					
M	Sine	Co-fine	Tangent	Co.Tang.	100	
30	9.600700	9.962398	9.638302	10.361698	20	
31	9.600990	9.952345	9.638647	10.361353	30	
32	9.601280	9.962288	9.638992	10.351007	23	
33	9.601570	9.962233	19.639337	10.350662	27	
35	9.502149	9.952178	9.639585	10.360318	26	
36	9.502139	-	- washing	10.359973	25	
37	9.602728	9.962057	9.640371	10.359529	24	
38	9.603017	9.961957	9.641060	10,350910	23	
39	9.603305	9.961902	9.611404	10.358596	22 21	
40	9.603594	6.961816	9.641747	10.358258	20	
41	9.603882	9.961791	9.542091	10.357909	19	
42	9.601170	9.961735	9.642434	10.357566	18	
43	9.604457	9.951630	9.642777	10.357223	17	
45	9.604745	9.951624	9.643120	10.356985	15	
46	9.605319	9.951513	9.643806	10.356194	15	
47	9.605606	9.951458	9.644148	10.355582	14	
48	9.605892	9.961402	19.644490	10.355510	13	
49	4.606179	9.961346	9.544832	10.355168	II	
20	9.605 165	9.961290	9.645174	10.354826	IO	
51	9.605750	9.951235	9.645516	10.354484	- 0	
52	9.607039	9.951179	9.545857	10.354142	98	
53 54	9.607322	9.961123	9.646199	10.353801	7	
55	9.607607	9.951067	9.616540	10.353460	76.5	
56	9.608176	-	9.647222	10.352778	75 merce (5)	
57	9.608461	9.960899	9.647562	10.352438	4	
58	9.608745	9.960342	9.647903	10.352097	3 2	
59	9.609029	9.960786	9.648213	10.351757	I	
60	9.609313	9.950730	9.648583	10.351417	0	
WA.	Co-sine	Sine I	Go-Tang.	Tangent	M	
The same	TO SECURE	D		SECTION STREET, STREET		

Degree 66.

T					100
1	01	T 1"	ee	3	A
		48	6	de	40
Dame of C		-			

M	Sine ,	Co-sine	Tangent	Co-Tang.	24
-0	9.609313	9.950730	9.648585	10,351417	60
1	9.609597	9.960674	9.648923	10.351077	59
2	9.609880	9.960617	9.649253	10.350737	58
3	9.610163	9.960561	9.649602	10.350308	57
4	9.610446	9.960505	9.649942	10.350058	56
5	9.610729	9.960448	9.650281	10.349719	55
6	9.511012	9.960392	9.650520	10.349380	54
7 8	9.611291	9.960335	9.550959	10.349041	53
	9.611576	9.960279	9.651297	10.348703	52
9	9.611858	9.960222	9.651974	10.348025	51
10	9.612140	9.950109	9.652312	10.347688	
11	9.612121	9.950109	9.652550	10.347350	49
12	9.612702	9.959995	9.652983	10.347012	47
13	9.613264	9.959938	9.653325	10.346674	46-
14	9.613545	9 959881	9.653663	10.346337	45
16	9.614825	9.955824	19.654000	10.345999	44
17	9.614105	9.959768	19.651337	10.345662	43
18	9.614385	9.959710	19.651674	10.345325	42
19	9.514665	9.959553	9.655011	10.344989	41
20	19.614944	9.959596	19.655348	10.344652	40
21	9.515223	9.959539	9.655684	10.344316	39
22	9.615502	9.959182	5.656020		38
23	9.515781	9.959 125	9.656356	a Charles and the second of the	37
24	9.516050	9.959367	9.656692		36
25	9.616338	9.959310	1	-	35
26	9.616616	9.959253	19.657363		34
27	9.616894	9.959195	9.557699		33
28	9.617172	9.959138	9.658034	10.341965	32
129	9.617450	9.959080	9.558701	10.341296	31
30	9.617727	9.959023		1	-
1] Co fine	Sine	'ICo Tang	Tangent.	M
1	A 40 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	Die	6-	The Party of	

Degree 65.

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_		an an			400

MI	Sine	Co-fine	Tangent ,	Co Tang.	27 1
30	9.617727	9.959023	9.558704	10.341296	30
31	9.618004	9.958965	9.659039	10.340925	29
32	9.618581	9.958908	9.659373	10.340627	23
33	9.618558	9.958850	9.659708	10.340292	27
34	9.618834	9.958792	9.560042	10.339958	26
35	9.519110	9.958734	9.660276	10.339524	25
36	9.519386	9.958577	9.560710	10.339290	24
37	9.619562	9.954619	9.651043	10.338957	23
38	9.61.9938	9.958551	9.661377	10.338623	22
139	9.620213	9.958503	9.661710	10.338290	21
40	9.620488	6.958 145	9.652043	10.337956	120
41	9.520763	9.958387	9.562376	10.337623	19
1:42	9.621038	9.958329	9.562709	10.337291	18
143	9.521313	9.958271	9.663042	10.336525	17
44	9.621587	9.958212	9.653374	10.335293	
1.45		9.958154	-	10.335961	1-1
4.6	9.622135	9.958095	9.664371	10.335629	
47	9.622409	9.958038	9.664703	10.335297	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
- 48	1 6/3 3 13 7 15		9.565035	10.334965	III. Mindred III III
149	1 ~ 633030		9.565366	IN R. CHARLES BY B. MAN AND ADDRESS OF	
50	THE RESERVE OF THE PARTY OF THE	0.			-
51	9.523502		9.565697		
1 52	2 9.623775			10.3,3640	
5	10 601010		9.566691	10.333309	
15	0 631001		1 1 11		
5	-1-60,06	Designation of the Personal Property lies	9.667352	7	8 -
15			1 1 10		× 1
15	7 9.525134	A LOS MANY COLUMN TO A STATE OF THE PARTY OF	11111-		7 3
	9.625400		11000	3 10.33165	74 1
	1 . (2.0)		1101	2 10.33132	7 0
10	Go-fine		Co Tang	The second second second	-
1-	1 30 1000	-			

Degree 65.

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17	A	Ot	ce	-	2
~	-	N.	-	14	3.
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M	Sine	Co-fine	Tangent	Co-Tang.	
0	9.625948	9.957276	9.668672	10.331327	7
1	9.621219	9.957217	9.669002	10.330998	60
2	9.626490	9-957158	9.669332	10.330668	59
3	9.625569	9.957099	9.669661	10.330339	57
4	9.627030	9.957040	9.669990	10.330009	56
5	9.627300	9.956981	9.670320	10.329580	55
6	9.627570	9.9,6922	9.570549	10.329351	51
8	9.627840	9.956862	9.670977	10.329022	53
9	9.628109	9.956803	9.671305	10.328594	52
10	9.628647	9.956584	9.671634	10.328365	51
11	9.628916	9.956625	9.672291	10.328035	50
12	9.629184	9.956565	9.672619	10.327609	49
13	9.629453	9.956506	9.672947	10.327381	48
14	9.629721	9.956446	9.673274	10.326725	47
15	9.629989	9.956387	9.673603	10.325398	46
16	9.630257	9.956327	9.673929	10.325070	45
17	9.630524	9.956267	9.674259	10.325743	44
18	9.630792	9.956208	9.674584	10.325416	43
19	9.631059	9.956148	9.674910	10.325089	41
20	9.631326	9.956088	9.67:237	10.324763	40
21	9.531592	9.956029	9.675564	10.324436	39
22	9.631859	9.955969	9.675890	10.324110	38
23	9.632125	9.955909	9.676216	10.323783	37
24	9.632392	9.955849	9.676369	10.323457	36
25		9.955789	-	10.323131	35
27	9.632923	9.955739	9.677194	10.322805	34
28	9.633454	9.955669	9.677520	10.322480	33
29	9.633719	9.955548	9.678171	10.321829	32
30	9.633984	9.955488	9.678496	10.321504	31
Tai	Co fine	Sine	Co-Tang	Tangent.	30 M
-	A CONTRACTOR OF THE PARTY OF TH	-			

Degree 64.

Degree 25.

M,	Sine 1	Co-sine	, Tangent	Co.Tang.	
30	9.633984	9.955488	9.678496	10.321504	30
31	9.634249	9.955428	9.678821	10.321179	29
32	9.634514	9.955867	9.679146	10.320854	23
33	9.634778	9.955307	9.579471	10.320529	27
34	9.535042	9.955246	9.679795	10.320205	26
35	9.635306	9.955286	9.580120	10.319880	25
36	9.635570	9.955125	9.680414	10.319556	24
37	9.635833	9.955055	9.680768	10.319232	23
	9.636097	9.955004	9.681092	10.318908	22
39	9.636360	9.954914	9.581416	10.318584	21
40	9.636523	9.954883	9.681740	10:318260	20
41	9.536886	9.954823	9.682063	10.317937	19
42	9.637148	9-954762	9.682385	10.317613	18
43	9.637411	9.954701	9.682710	10.317290	17
44	9.637673	9.954640	9.633356	10.316967	16
45	9.637935	9.954579	9.683678	10.316644	15
46	9.638197	9.954518	9.684001	10.316321	14
47	9.538458	9.954457	9.684324	10.315999	13
	9.638981	9.954396	9.684646	10.315676	12
149	9.639242	9.954274	9.684968	10.315334	II
50	1		-		- 1
51	9.639503	9.954213	9.685290	10.314710	8
52	9.639764	9.954152	9.685612	10.314388	BORGE !
53	9.640284	THE RESIDENCE OF THE PARTY OF T	9.686255	10.313745	76
154	9.640544		9.686577	10.313423	5
55	10	STREET, STREET	9.686898	10.313102	5
156	O REAL PROPERTY AND ADDRESS OF THE PERSON.	A CONTRACTOR OF THE PARTY OF TH	9.687219	10.313102	4 3
57	9.641323	THE RESIDENCE OF THE PARTY OF T	9.687540	10.312460	2
59	1 - 6	THE RESERVE OF THE PARTY OF THE	9.687861	10.312138	I
60	1 - 1 0		9.688182	10.311818	0
-	Co-fine	Sinc	Co.Tang.	management assessment of the last of	M
1-					

Degree 26.

M	Sine	Co-fine	Tangent,	Co-Tang.	-
-0	9.541842	9.953650	9.688182	10.311818	60
I	9.642101	9.953598	9.688502	10.311493	59
2	9.642360	9.953537	9.688823	10.311177	58
3	9.642618	9.953475	9.689143	10.310857	57
4	9.642876	9.953413	9.689493	10.310537	56
5	9.643135	9.953351	9.689783	10.310217	55
6	9.643393	9.953290	9.690103	10.309897	54
7 8	9.643650	9.953228	9.690423	10.309577	53
8	9.643908	9.953166	9.690742	10.309258	52
9	9.644165	9.953104	9.691063	10.303938	51
-IO	9.644423	9.953042	9.691381	10.308619	50
II	9.644680	9.952980	9.691700	10.308300	49
1-2	9.644936	9.952917	9.692019	10.307981	48
13	9.645193	9-952855	9.692338	10.307662	47
14	9.645449	9.952793	9.692656	10.307343	46
15	9.645706	9.952731	9.692975	10.307025	45
16	9.645962	9.952668	9.593293	10.306706	44
17	9.646218	9.952506	9.693512	10.305388	43
18	9.646473	9.952544	9.693930	10.306070	42
19	9.646729	9.952481	9.694248	10.305752	42
20	9.646984	9.952419	9.694566	10.305434	40
21	9.647239	9.952356	9.594883	10.305117	39
22	9.647494	9-952294	9.695201	10.304799	38
23	9.647749	9.952231	9.595518	10.304482	37
21	9.648004	9.452168	9.695835	10.304164	36
-25	9.648258	9.952105	9.696153	10.303847	35
26	9.648512	9.952043	9.595470	10.303530	34
27	9.548766	9.951980	9.695786		33
28	9.648020	9.951917	9.697103	10.302897	32
29	9.649274	9.951854	9.697420		31
30	9.649527	9.951791	9.697738		30
	Co-sine	Sine	Co-Tang.	Tangent	M

De	gree	26.

M	Sine	Co-fine	Tangent	Co.Tang	
30	4.649527	9.951791	9.697738	10.302264	30
34	9.649781	9.951728	9.698052	10.301947	29
32	4.650034	9.951665	9.698369	10.301631	23
33	9.650287	9.951602	9.698685	10.301315	27
34	9.650519.	9.951539	9.699001	10.300999	26
35	9.550798	9.951476	9.699316	10.300684	25
36	9.651044	9.951412	9.699632	10.300368	24
37	9.651296	9.951349	9.699947	10.300052	23
38	9.651648	9.951286	9.700263	10,299737	22
39	9.6518 0	9.951222	9.700578	10.299422	21
40	9.652052	9.951159	constructed of the second line will be	10.299107	20
41	9.652303	9.951095	9.701208	10.298792	19
42	9.652556	9.951032	9.701522	10.298477	18
44	9.652806	9.950968	9.702152	10.298163	17
45	9.653057	9.950905	9.702466	10.297534	16
46	COLUMN CONTRACTOR OF THE PERSON NAMED IN	9.950841	9.702780	10.297219	15
47	9.653558	9.950777	9.703095	10.296905	14
48	9.654059	9.950714	9.703409	10.296591	13
49	9.654309	9.950586	9.703722	10.296277	12
50	9.654558	9.950522	9.704036	10.295964	II.
51	9.654808		9.704350	10.295650	1
52	9.655057	9.950458	9.704663	10.295337	8
53	9.655307	9.950330	9.704976	10.295023	Total State of
54	9.655556	9.950266	9.705290	10.294710	76
55	9.655805	9.950202	9.7 5603	10.294397	5
56	9.656053	9.950138	9.705915	10.294081	THE REAL PROPERTY.
57	9.656302	9.950074	9.706223	10.293771	4
58	9.655550	9.950009	9.706541	10.293459	2
59	9.656799	9.949945	9.706853	10.293146	I
60	9.656447	9.949881	9-707166	10.292334	0
S. C.	Co-sine	Sine	Co-Tang.	Tangent	M
100	A STATE OF THE REAL PROPERTY.	Dogu	The second	Land land	

Degree 63.

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D	eg	re	e	2	7	

M	Sine -	Co-fine	Tangent,	Co-Tang.	
10	9.657047	9.949880	9.707166	10.292934	60
Ti	9.657295	9.949816	9.707478	10.292523	59
2	9.657542	9.949752	9.707790	10.292210	58
3	9.657790	9.949687	9.708102	10.291897	57
4	9.658037	9.949623	9.708414	10.291586	56
5	9.658284	9-94-93-98	9.708726	10.291274	55
6	9.658531	9.949494	9.709037	10.290962	54
78	9.658777	9.949429	9.709349	10.290651	53
4 17	9.659024	9.949364	9.7.09660	10.290340	52
10	9.659271	9.949300	9.709971	10.290029	50
V-	9.659517	9.949238		10.289407	49
III	9.659763	9.949174	9.710593	10.289096	48
12	The second second	9.949040	9.711214	10.283785	47
14	The second second	9.948976	9.711525	10.288475	46
135	9.660746	19.948910	9.711836	10.288164	45
186	9.660991	9.948815	9.712146	10.287854	44
	9.661236	AND RESIDENCE OF THE PARTY OF T	9.712456	10.287544	43
18	9.661481	9.944715	9.712766		42
	9.661726		9.713076	THE RESERVE TO STATE OF THE PARTY OF THE PAR	41
20	9.661970	9.948584	9.713285	10.286614	40
21		9.948519	9.713695	10.286305	39
22		9.948453	9.714005	200	38
123	9:662702	9.948388	9.714314		37
1-24	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAME	9.948323	9.714624		35
25	9.663190		9.714933	A D	24
26		9.948191	9.715241		
27	9.663677	9.948126	9.715550		or the second
2	The second second second	9.947995	9.71616		
3	The second secon	9.947929	The second secon		30
1	Co-fine	THE RESERVE AND PERSONS ASSESSMENT OF THE PE	Co-Tang	The state of the s	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other party of the Concession, Name of
1	1. Co-Jene	Jane .	Dever	2	

D	egree	27.
1 1 100	Comment of the	-

M	Sine	Co-fine	Tangons	10.0	-
30	9.661406		Tangent	Co Tang.	0
(Total	9.564618	9. 947929	9-716477	10.283523	30
31	9.664891	9.947863	9.716785	10.283215	29
33	9.665133	9.947797	9.717093	10.282937	23
34	9.665375	9.947731	9.717401	10.232598	27
35	9.565617	9.917655	9.717709	10.282290	26
36	9.555858	9.947599	9.718017	10.281983	25
Market Co.	9.666100	9.947533	9.718325	10.281675	24
37	9.656341	9.947467	9.718633	10.231367	23
39	9.656583	9.947401	9.718940	10.281050	22
40	9.666824	6.947269	9.719248	10.280752	21
41	9.567065	The second second second	9.7.19555	10.280445	20
42	9.667305	9.917203	9.719862	10.280138	19
43	9.567545	9.947136	9.720169	10.279831	18
44	9.667785	9-9-7070	9.720475	10.279524	17
45	9.668025	9.917004	9.720783	10.279217	16
46	9.663265	9.945937	9.721039	10.278911	15
47	9.668505	9.946871	9.721395	10.278504	14
48	9.668746	9.946804	9.721702	10.278298	13
49	9.668985	9.946671	9.7220 8	10.277991	12
50	9.669225	9.946604	9.722315	10.277685	II.
51	9.569464	01		10.277379	IO
52	9.659703	9.915537	9.722927	10.277073	9
53	9.669942	9.916471	9.723232	10.275768	8
51	9.670181	9.945337	9.723533	10.276462	7
55	9-570419	9.916270	9.723843	10.275156	6
55	9.670557	9.946203		10.275351	5-
57	9.570895	9.946203	9.721454	10.275546	4
53	9.671134	9.945059	9.721759	10.275240	3
59	9.671372	9.945002	9.725369	10.274935	. 2
60	9.671609	9.945925	9.725574	10.274630	I
1	Co-fine	-	CONTRACTOR SALES AND ADDRESS OF	10.274325	10
	0. 10.00	Sine 1	Co Tang.	Tangent	M
1		7 77	-		

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	00		0	0	28.
2	CU	и	C		40.
		300	м	ы	THE RESERVE

M	Sine	Co-fine 1	Tangent	Co-Tang.	100
0			9.725674	10.274326	60
-1	9.671609	9.945935	9.725979	10.274021	59
2	9.671847	9.945800	9.725284	10,273816	58
3	9.672321	9.945733	9.725538	10.273412	57
4	9.672558	9.945666	9.726842	10.273107	56
5	9.672795	9-945598	9.727197	10.272803	55
6	9.673032	9.945531	9.727501	10.272499	54
. 7	9.573258	9.945463	9.727805	10.272195	53
1000	9.673505	9.945396	9.728109	10.271587	52
9	9.673741	9:945328	9.728412	10.271234	50
10	9.673977	9-945261		10.270980	49
II	9.674213	9.945193	9.729020	10.270677	48
12	9.674443	9.945125	9.729526	10.270374	47
13	9.674919	9.944990	9.729929	10.270070	46
15	9.675154	9.944922	9.730232	10.269767	45
16	9.675389	9.944854	9.730535	10.26 9464	44
17	9.675623	9.944786	19.730838	10.259162	43
18	9.675859	9.944718	9.731141	10.268859	42
19	9.676094		9.731443	10.268556	41
20	9.676328	9.944582	9.731746	-	40
21	9.676502	The second secon	9.732048	10.267952	39
22			9.732351	The state of the s	38
1 23	1		The second second second second second	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	36
1 24			9.733257	-11	35
25	The state of the s	Managard Construction State of the last	The state of the s	-	34
26		THE RESIDENCE OF THE PARTY OF T	1 1 0 2	10,266140	33
27	THE RESIDENCE OF THE PARTY OF T	AND THE ACCURACY CONTRACTOR OF THE PERSON OF	9.734162	10.205030	32
20	100	9.943967	1 9.734463	10.205537	1
130	- 1-01/2	9.943898	9.734764	10.205230	30
1	Co sine	and the second of the second of the second	Co-Tang	. Tangent	M

Degree 61.

Degree 28.

M,	Sine 1	Co-fine	Tangent	Co.Tang.	-1
30	9.578563	9.943893	9.734764	10.265236	30
31	9,578895	9.943830	9.735666	10.264934	29
32	9.579123	9.943761	9.735362	10.254633	28
33	9.579360	9.913692	9.7 5658	10.264332	27
34	9.579592	9.943524	9. 35958	10.264031	26
35	9.579821	9.943555	9.736259	10.253731	25
35	9.630056	9.943485	9.735570	10.263430	24
37	9.00020	9.943417	9736370	10.253130	23
38	9.680519	9-943348	9.737171	10.262329	22
39	1 9.680982	9.943210	9.737771	10.252229	20
40	9.631213	9.943141	9.738071		-
41	9.531413	9.943071	9.738371	10.251929	19
42	9.531674	ART ARTER TO THE PARTY OF THE P	9.738571	10.261329	17
43	0.681004	9.942933	9.738971	10.261029	16
44	9 68 21 35	9.942361	9.739271	10.260729	15
45	9.682365	9.912795	9.739570	10.250430	14
46	9.68259;	y.942725	9.739870	10.250130	131
47	9.682825	9.912555	9.740169	10.259831	12
149	19.583055	9.912537	9.740468	10.259532	II
50		9.942517	9.710767	10.259233	10
151	19.683514	9.942443	9.741056	10.258934	8
152	19.003/43	9.942378	9.741365	10.258635	
53	19.3039/2	9.942003	9.741664		7 6
51	19.00 +231		9.741962	10.258038	ALCOHOLD .
55	1 3.30 + +30	-	9.742251	10.257739	1 2
56	19.504050		2.742559	10.257441	4
			9.742158	10.257142	3 2
57	9.58511		9.743155		
155	1068227		9.743751	10.256248	10 Table 10 Table 10
160		The same of the same of	Co Tang		M
1	- Co Gne	1 Sinc	L'CO IANE	Tangent.	1 11

Degree 61.

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Maria .	22.		29.

MI	Sine ,	Ca Gua.	Tangent	Co Tana	-
141		Co-fine	Taugent	Co-Tang.	
0	9.685571	9.911819	9.743752	10.256248	60
T	9.685799	9.941749	9-744050	10.255950	59
2	9.685027	9.941679	9.744348	10.255652	58
3	9.686254	9.941609	9.744645	10.255355	57
4	9.686432	9-9+1539	9.744943	10.255057	56
_5	9.686709	9.941468	9.745240	10.254760	55
6	9.686936	9.941398	9.745538	10.254462	54
7 8	9.687163	9.941323	9.745835	10.254165	53
WOULD SHOW	9.687389	9.941257	9.746132	10.254868	52
9	9.687616	9.941187	9.746429	10.253571	51
10	9.687842	9.941116	9.746726	-	50
11	9.688069	9.941046	9-747023	10.252977	49
12	9.688295	9.940975	19.747319	10.252580	48
13	9.688523	9.940905	9.747610	10.252384	47
14	9.688747	9.940834	9.74791	10.252037	46
15	9.688972	9.940763	9.748209	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	45
16	9.689198	9.940693	19.748505	A CONTRACTOR OF THE PARTY OF TH	44
17	9.689421	9-940622	9.748801	10.251199	43
119	9:689548	9.940480	9.749097	AND A STREET OF THE PARTY OF TH	42
20	19.690098	9.940409	9.749393	A VECTOR OF STREET	41
-	-	-	9.74.689		40
21	9.590323	9.940338	THE RESERVE TO SERVE THE PARTY OF THE PARTY		39
22	9.690548	The second secon	5.750281	CONTRACTOR OF THE PARTY OF THE	
24	9.690772		9.750576		37
25	9.691220	A STATE OF THE PARTY OF THE STATE OF THE STA	9.750872	00	A CONTRACTOR OF THE PARTY OF TH
36	1-	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	1	-	() desired
27	9.691444		9.751 462	THE RESERVE OF THE PARTY OF THE	The second second
28	9.691668		9.751757	ET CONTRACTOR OF THE REAL PROPERTY.	a second
29		9.939768	9.752347	THE RESERVE LABOUR TO SERVE AND ADDRESS OF THE PARTY OF T	A Company of the last
130	THE RESIDENCE OF THE PARTY OF T	9.939647	9.75254		VICE AND DESCRIPTION OF THE PERSON OF THE PE
1	-	Sine		-	M
1	1 Co. fine	1 Sinc	' Co Tang	Tangent.	In
		The second second		Contraction Contraction Contraction	

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M	Sine	Co-fine 1	Tangent	Co-Tanga	M
30	9.592339	9.929697	9.752542	10.247358	30
31	9.592562	9.939525	9-751937	10.247063	29
32	9.692758	9.930554	9.753231	10.2467.69	28
33	9.693003	9-939482	9.753525	10.246474	27
34	9.593231	9.939112	2.753820	10.246180	26
35	9.693153	9.939339	9.754115	10.245885	25
35	9.593676	9:939267	9.751409	10.245591	24
37	9.693898	9.939195	9.754703	10.245297	23
37	9.691120	9.939125	9.754997	10.245003	22
39	9.591312	9.939051	9.755291	10.244709	21
40		9.938980	9.755584	10.214115	20
41	9.691786	9,938308	9.755878	10.244122	19
42	9.695007	9.938763	9.756465	10.243828	18
43	9.695229	9.933691	9.756759	10.243211	17
44	9.695671	9,938519	9.757052	10.242918	15
45	9.695892	9.933547	9.757345	10.242655	-
45	9.695113	9.938475	9.757538	10.242362	14
47	9.695334	9.938402	9.757931	10.242069	13
48	9.695554	9.938330	9.758221	10.241776	11
49	9.695774	9,93,9257	9.758517	10.241483	IO.
-	9.696995	9.935185	9.753810	10,241190	-
51	9.597215	9.938112	19.759102	10.240898	98
53	9.597435	9.938040	9.759395	10.210605	ECONOMIC .
54	9.697654	9.937957	6.759587	10.240313	76
55	9.597374	9.93.7895	9.759979	10.240021	5
56	9.598093	9.937822	9.760271	10.239728	4
57	9.698313	9.937740	9.760554	10.239436	3
58	9.594532		9.760856	10.239144	2
59	9.99915	THE RESIDENCE OF THE PARTY OF T	9.761147	10.235862	I
60	9.898970	9.937531	9.761430	10.238561	10
11/2	Co fine.	Sine	Co Tang	Tangent.	M

Degree 60.

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M	Sine	Co-fine	Tangent	Co-Tang.	1-				
0	9.698970	9-937531	9.761139	10.238561	60				
1	9.699189	9.937458	9.761731	10.238269	159.				
2	9.699407	9.937305	9.762034	10.237977	58				
3	9.699626	9.937312	9.762314	10.237636	57				
4	9.699844	9.937238	9.7 2506	10.237391	56				
5	9.700062	9.937165	9.762897	10.237103	55				
6	9.700280	9.937092	9.763188	10.236812	54				
7	9.700498	9.937019	9.763479	10.236521	53				
8	9.700716	9.936945	9.763770	10.235230	52				
9	9.700933	9.936872	9.764061	10.235939	51				
10	9.701151	9.936799	9.754352	10.235648	50				
11	9.701568	9.936725	9.764643	10.235357	49				
12	9.701585	9.936652	9.764933	10.235067	48				
13	9.701802	9.936578	9.765224	10.234776	47				
14	9.702019	9.936505	9.755514	10.234486	46				
15	9.702236	9 935 431	1	10.234195	45				
16	9.702452	9.936357	9.766095	10.233905	44				
17	9.702669	9.935284	9.76638;	10.233615	43				
18	9.702885	9.936210	9.766955	10.233325	42				
19	9.703101	9.936062	9.767255	10.232745	41 40				
20	9.703317				-				
21	9-703533	9.935980	9.757545	10.232455	39				
22	9.703748	9.935914	9.768124	10.232166	38				
23	9.703964	9.935766	9.768413	10.231587	37				
24	9.704395	9.935692	9.763703	10.231297	35				
25	9.704610	9.935618	9.758992	10.231008	34				
26	9.704825	9.935543	9.769281	10.230719	33				
27 28	9.705040	9.935469	9.769570	10.230430	32				
29	9.705254	9-935395	9.769859	10.230141	31				
30	9.705469	9.935320	9.770148	10.229352	30				
1	Co. fine	Sine	Co Tang	Tangent.	M				

Degree 59.

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5ine 9.705469 9.705683 9.705867 9.706112 9.706326 9.706529	9.935320 9.935246 9.935171 9.935097	7.770148 9.770437 9.770726	Co-Tang. 10.229852 10.229363 10.229274	30
9.705683 9.705867 9.706112 9.706326	9.935246 9.935171 9.935097	9.770437	10.229363	29
9.705867 9.706112 9.706326	9.935171	9.770726	10.229274	
9.706326	The Royal William Street	THE RESERVE OF THE PERSON NAMED IN COLUMN 2 IS NOT THE OWNER.	THE RESERVE THE PARTY AND THE	28
STATE OF THE PARTY	0010000	19.771015	10.228985	27
9,706520	9-935022	9.771303	10.228697	26
	9.934948	9.771592	10.228408	25
9.706753	9.934873	9.771800	10.228120	24
9.706967	9.934798	9.772168	10.227833	23
The second secon	9.934723	9.772456		22
	The second secon	TO STATE OF THE PARTY OF THE PA		21
	-	9.773033	The second name of the second	20
	CONTRACTOR OF THE PARTY OF THE	9.773321	BENEFIT OF STREET OF STREET, S	19
	THE PERSON NAMED IN COLUMN 1			18
	THE RESIDENCE OF THE PARTY OF T	A STATE OF THE PARTY OF THE PAR	THE RESIDENCE OF THE PARTY OF T	17
	THE RESERVE OF THE PARTY OF THE		Marie Company of the	16
	Control of the last of the las		Desirable of the last of the l	15
	The Control of the Co	BUT THE REAL PROPERTY AND ADDRESS OF THE PARTY		14
	TO A STATE OF THE PARTY OF THE	THE RESIDENCE OF THE PARTY OF T	SUPPLIES THE PROPERTY OF THE PARTY OF THE PA	13
		THE RESERVE OF THE PERSON NAMED IN COLUMN 1	AND DESCRIPTION OF THE PARTY OF	12
	THE RESERVE AND ADDRESS OF THE PARTY OF THE		The second secon	II
	-		THE RESERVE OF THE PARTY NAMED IN	10
THE RESIDENCE AND ADDRESS OF THE PARTY OF TH	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NAMED IN COLUMN TRANSPORT NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO IS NAMED IN	THE RESERVE AND ADDRESS OF THE PARTY AND ADDRE		98
The state of the s			THE RESERVE AND ADDRESS OF THE PARTY OF THE	GREEK STATE
THE RESERVE OF THE PARTY OF THE	The second secon		THE RESERVE AND ADDRESS OF THE PARTY OF THE	76
	BLOOD LEVEL CONTRACTOR LEVEL CONTRACTOR	9.777342	COLUMN TWO IS NOT THE OWNER, THE PARTY OF THE OWNER, TH	Marie Sala
	THE RESIDENCE OF THE PARTY OF T			15
		9.///020		4
9.711418		9.778201	The same of the sa	32
	9.933141		10.221513	1
	9.933066	9.778774	10.221226	0
Co-fine	Sine	Co-Tang.	Tangent.	M
	9.707180 9.707393 9.707606 9.707819 9.708032 9.708245 9.708457 9.708670 9.709306 9.709306 9.709306 9.709306 9.709306 9.709306 9.709941 9.710153 9.710153 9.710364 9.710575 9.710786 9.710997 9.711208 9.711418 9.711629 9.711839	9.707180 9.934723 9.707393 9.934649 9.707606 9.934574 9.707819 9.934499 9.708032 9.934424 9.708245 9.934349 9.708457 9.934199 9.708882 9.934123 9.709094 9.934048 9.709306 9.933973 9.709518 9.933897 9.709518 9.933897 9.709941 9.933747 9.710153 9.933671 9.710153 9.933520 9.710575 9.933520 9.710786 9.933596 9.710997 9.933369 9.711208 9.933444 9.710997 9.933369 9.711418 9.933217 9.711629 9.933141 9.711629 9.933141 9.711839 9.933066	9.707180 9.934723 9.772456 9.707393 9.934649 9.772745 9.707606 9.934574 9.773033 9.70819 9.934499 9.773008 9.708245 9.934424 9.773008 9.708245 9.934349 9.773896 9.708457 9.934274 9.774184 9.708670 9.934199 9.774471 9.70882 9.934123 9.774759 9.709094 9.934048 9.775046 9.709306 9.933973 6.775323 9.709518 9.933897 9.775046 9.709730 9.933747 9.776195 9.709941 9.933747 9.776195 9.710153 9.933520 9.77608 9.77608 9.77608 9.77608 9.77608 9.77608 9.77628 9.777005 9.710786 9.933520 9.777005 9.710997 9.9333444 9.777342 9.711629 9.933141 9.778487 9.711839 9.933066 9.778774	9.707180 9.934723 9.772456 10.227543 9.707393 9.934649 9.772745 10.226967 9.707606 9.934574 9.773033 10.226967 9.70819 9.934499 9.773321 10.226391 9.708032 9.934424 9.773008 10.226391 9.708245 9.934349 9.773896 10.226391 9.708457 9.934274 9.774184 10.225816 9.708670 9.934199 9.774471 10.225519 9.708882 9.934123 9.774759 10.225241 10.225519 9.709094 9.934048 9.775046 10.224954 6.775323 10.224666 9.709518 9.933973 6.775323 10.224666 9.709518 9.933897 9.775621 10.224379 9.709730 9.933322 9.775908 10.224379 9.709730 9.933322 9.775908 10.224092 9.709941 9.933747 9.776195 10.223805 9.710364 9.933596 9.776482 10.223518 9.710364 9.933596 9.77668 10.223232 9.710997 9.933369 9.777628 10.222945 9.710997 9.933369 9.777628 10.222372 9.711629 9.933141 9.778487 10.22122658 9.711839 9.933066 9.778774 10.221226

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M	Sine .	Co-fine	Tangent	Co-Tang.	110
0	9.711839	9.933066	9-778774	10.221225	60
I	9.712049	9.932990	9:779060	10.220940	59
2.	9.712239	9.932914		10.220654	58
3	9.712469			10.220368	57
4	9.712579	9.932761		10.220082	56
5	9.712889	Anna Marian Company of		10.21.9795	55
6.	9.713098	9.932609	The second of th	10.219511	54
7.8	9.713308		THE RESIDENCE OF THE PARTY OF T	10.219225	33
8	9.713517		THE RESERVE TO SERVE THE PARTY OF THE PARTY	10.218940	52
9	9.713726			10.218369	51
10	9.713935	The state of the s			50
11	9.714144	9-932447	the state of the s	10.218084	49
12	9.714352			10.217799	48
13	9.714561		THE RESERVE THE PARTY OF THE PA	10.217514	47
14	9.714769		the latter of the control of the con	10.216914	46
15	9.714977		THE RESIDENCE OF THE PERSONNELS.	10.216659	45
16	9.715186	9.931045		10.216374	44
17	9.715394		THE RESERVE AND DESCRIPTION OF THE PERSON NAMED IN	10.216.90	43
18	9.715601	9.931691	THE RESERVE AND ADDRESS OF THE PARTY OF THE	10.215805	42
19	1			10,215520	41
20	1		-	10.215236	40
21	A STATE OF THE PARTY OF THE PAR	9.931460	THE RESIDENCE OF THE PARTY OF T	10,214942	39
22	E SANDACTOR PROPERTY.	9.931306	NO. 10. ACCUSATE ACCUSATE ACCUSATION ASSESSMENT ACCUSATION.	10.214668	
23	9.716846	THE RESERVE THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO I	THE RESERVE AND ADDRESS OF THE PARTY OF THE	10.214384	37
24	9.717053	TO SEE SANGED FOR THE PROPERTY OF THE PARTY	THE RESIDENCE OF THE PARTY OF T	10.214099	35
25	9.717259	Secretary distribution of the		10.213816	STEED CONTROL
26	9.717456		THE RESERVED AND DESCRIPTION OF THE PERSON NAMED IN	10.213532	34
27	9.717672		9.786752		32
29		9.930843	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW	CONTRACTOR OF THE PARTY OF THE	31
30	9.718085	9.930766	9.787319	10.212681	30
170	Co-fine	Sine .	Go Tang.	Tangent	M
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Degree 31.

1	2	- 0	-	C. T	-
M	Sine	Co-fine	Tangent.	Co-Tang.	100
30.	9.715085	9.930766	9.787319	10.212681	30
31	9.718291	9.930698	9.787603	10.212397	29
32	9.718+97	9.930511	9.787886	10.212114	28
33	9.718793	9-930533	9.788170	18.211830	27
34	9.718909	9.939456	9.788453	10.211547	26
35	9.719114	9.930378	9.783736	10.211264	25
36	9.719320	9.930300	9.789019	10.210981	24
37	9.719525	9-930223	9.789302	10:210698	23
138	9.719730	9.930145	9.789585	10.210415	22
39	9.719935	9.930057	9.789868	10.210132	21.
40	9.720,140	9.929989	9.790151	10.209849	20
41	9.720345	9.929911	9.799433	10.209566	19
42.	9.720549	9.929833	9.790716	10.209284	18
43.	9.720754	9.929755	9.790999	10.209001	17
44	9.720958	9.929577	9.791563	10.208436	16
45	9.721162	9.929599	9.791845	10.208154	15
46	9.721366	9.929521	9.792128	10,207872	14
47	9.721774	9.924354	6.792410	10.207590	13
48	9.721918	9.929283	9.792592	10.207308	II
49	9.722181	9.929207	9-792974	10-207024	IO
50	9.722385	9.929129	9.793256	10,206744	
51	9.722588	9.929050	9.793538	10.206462	8
52		9.923972	9.793819	10.205180	7
53	9.722991	9.928893	9.794101	10.205899	6
54	9-723197	9-923814	9.791383	10.205627	5
56	9.723400	9.923736	9.794664	10.205236	4
2010/00/00	9.723603	9.928756	9.794945	10.205054	3
57	9.723805	9.928578	9.795227	10.204773	2
59	9.724007	9.928499	9.795508	10.204493	I
50	9,721219	9.928420	9.790789	10.204211	-
1	Co fane	Sine	Co-Tang.	Tangent.	M
					Total !

Degree 32.

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M	Sine	Co-sine	Tangent	Co-Tang.	150
0	9.724210	9.928420	9.795789	10.204211	60
I	9.724412	9.928341	9.796070	10.203930	59
2	9.724614	9.928262	9.796351	10.203649	58
3	9.724816	9.928183	9.796632	10.203368	57
4	9.725017	9.928104	9.796913	10.203087	56
_5	9.725219	9.928025	9.797194	10.202806	55
.6	9.725620	9.927946	9.797474	10.202522	54
7 8	9.725622	9.927867	9.797755	10.202245	33
1 12 Y	9.725823	9.927787	9.798036	10.201964	52
9	9.726024	9.927708	9.798316	10.201684	51
IC.	9.726225	9.927628	9.798596	10.201404	50
11	9.726426	9-927549	9.798877	10.201123	49
12	9.726625	9.927469	9.799157	10.200843	48
13	9.726827	9.927390	9.799437	10.200563	47
14	9.727027	9.927310	9.799717	10.200283	46
15	9.727228	9.927231	9.799997	10.200003	45
16	9.727428	9.927151	9.800277	10.199723	44
17	9.727628	9.927071	9.800557	10.199443	43
18	9.727828	9 926 991	9.800836	10.199163	42
19	9.728027	9.926911	9.801116	10.198884	41
20	9-728227	9.926831	9.801396	10.198604	40
21	9.728427	9.926751	9.801675	10.198325	39
22	9.728626	9.926671	9.801955	10.198045	39
23	9.728825	9.926591	9.802234	10.197766	37
24	9.729024	9.926511	9.802513	10.197487	36
25	9.7.29223	9.926431	9.802792	10.197207	35
26	9.729422	9.926351	9.803072	10.196928	34
27	0.729621	9.926270	9.803351	10.196649	33
28	9.729820	9.926190	9.803630	10.196370	32
29	9.730018	9.926110	9.803908	10.196091	31
30	9.730216	9.926029	9.804187	10.195813	30
400	Co-fine	1 Sine 1	Co-Tang.	Tangent	M
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Degree 32.

M	Sine	1 Co fine	Tangent	Co-Tang.	300
30	9.730216	9.925079	9.804187	10.195813	30
31	9.730415	9.925949	9.804466	10.195534	29
32	9.730613	9.925858	9.804745	10.195255	28
33	9.730811	9-925787	9.805023	10.194977	27
34	9.731009	9.925707	9.805302	10-194693	25
35	9.731206	9.925626	9.805590	10.194420	25
36	9.731404	9.925545	9.805859	10.194141	24
37	9.731601	9.925464	9.806137	10.193863	25
38	9.731799	9.925384	9.806415	10.193585	22
39	9.731995	9.925303	9.806693	10.193309	21
40	9.732193	9.925222	9.806971	10.192028	20
41	9.732390	9.925141	9.807249	10.192751	19
42	9-732587.	9.924978	9.807527	10.192433	18
43	9.732980	9.921097	9.808083	10.192195	17
45	9.733177	9.924816	9.808361	10.191639	16
46	9.733373	9.924735	9.808638	10.191362	2 100
47	9.733569	9.924653	9.808916	10.191084	14
48	4.733765	9.924572	9.809193	10.190807	12
49	9.733961	9-924491	9,809471	10.190529	II
50	9-734157	9.921409	9.809748	10.190252	IO
51	9.734353	9-924328	9.810025	10.189975	9
52	9.734548	9.924246	9.810302	10.189697	8
53	9.734744	9.924164	9.810580	10.189420	7
54	9.734939	9.924083	9.810857	10.189143	6
55	9.735134	9-924001	9.811134	10.188866	5
56	9.735330	9.923919	9.811410	10.188589	4
57	9.735525	9.923837	9.811687	10.188313	3
58	9.735719	9.923755	9.811964	10,187759	2
59	9.735914	9.923591	9.812241	10.187483	0
1		Sine	The second division in which the	Control of the local division in the local d	-
34	Co-fine	OINC 3	Co-Tang.	Tangent.	M

Ŕ	-		esso						
	D	-	0		0	0	2	2	
	IJ		Z	ı.	C	C	-5	3	
٠			O		sı			-	

M	Sme	Co sine	Tangent	Co-Tang.	
0	9.7361091	9.923591	9.812517	10.187483	60
L	9.736309	9.92350.9	9.812794	10.182206	59
2	9.736497	9.923427	9.813070	1.0.185430	58
3	9.736692	9.923340	9.813347	10.186653	57
4	9.736586	9.923203	9.813623	10.186377	56
5	9.737030	9.923180	9.813899	10.186101	55
6	9.737274	9.923098	9.314175	10.18 824	54
8	9.737467	9.923016	9,814452	10.185548	53
9	9.737861	9.922351	9.815004	10.184996	52
10	9.738048	9.922768	9.815279	10.184720	51
II.	9.738241	9.922680	9.815555	10.184445	50
12	9.738434	9.922605	9,815831	10.184169	49
12	9.738627	9.922520	9.816107	10,183893	47
14	9.738820	9.922438	9.816382	10.183617	46
15	9.739013	9.922355	9.816658	10:183342	45
16	9.739205	9.922272	9.816933	10.183066	44
17	9.739393	9.922139	9.817209	10.182791	43
18	9.739590	9.922105	9.817484	10.182516	42
19	9.739783	91922023	9.317759	10.182040	41
20	9.739975	9.921.940	9.818 35	10.181965	40
21	9.740107	9.921857	9.818310	10.181690	39
22	9.740359	9.921770	9.818585	10.181415	38
23	9.740550	9.921690	9.819135	10.181140	37
24	9.740742	9.921534	9.819410	10.180590	36
25	Contract of the Contract of th	90921441	9.819684	10.189315	35
26	9.741125	9.921357	9.819959	10-180041	34
27	9.741316	9.921274	9.820234	10.179766	33
29	9.741698	9.9211900	9.820562	10.179192	31
30	9.741889	9.921100	19.820783	10.179217	30
70	Co fine	Sine	Co-Tang	Tangent	M
7/10		The	sings !	-	

Degree 56.

Degree 33.

M	Sine	I Girgin	T	-	
-	Sine	Co fine	Tangent	co Tang.	133
30	9.742889	9.922107	9.820783	10.179217	30
31	9.742030	9.921023	9.821057	10.175943	29
32	9.742271	9.920939	9.821332	10.178668	28
33	9.742461	9.920855	- 9.821606	10.178394	27
34	9.742650	9.920772	9.821830	10.178120	25
35	9.742842	9.920588	9.822154	10.177846	25
36	9-743032	9.920604	9.822429	10.177571	24
37	9.743223	9.920520	9.822703	10.177297	23
Books and the last	9.743412	9.920136	9.822977	10.177023	22
39	9.743602	9.920352	9.823250	10.176739	21
40	9.743792	9.920258	9.823524	10.176476	20
41	9.743982	9.920184	9.823798	10.176202	19
42	9.744171	9.920093	9.821072	10.175928	18
43	9.744361	9.920015	9.824345	10.175655	17
44	9.744550	9.919931	9.824619	10.175381	16
45	9.744739	9.919845	9.8218.92	10.175108	15
46	9-745928	9.919762	9.825166	10.174834	14
47	9.745117	9.919577	9.825439	10.174560	13
The state of the s	9.745306	9.919593	9.825713	10.174287	12
49	9-745494	9.91.9505	9.825259	10.174014	II
Section 1		-	A Children was a series of the contract of the	10.173741	10
51	9.745871	9.919339	9.825532	10.173468	000
52	9.745059	9.919254	9.826305	10,173195	1000
54	9.746436	9.919083	9.827078	10.172922	76
55	9.746624	9.918999	9.817724	10.172376	
56	9.746811	9.918915	9.827897	10.172103	5
	9.746999	9.918830	9.828170	10.171830	4
57 58	9.747187	9.918744	9.828442	10.171558	32
59	9.74737.4	9.918656	9.828715	10.171285	1
60	9.747562	9.918574	9.328987	10.171012	0
1	Co-fine	Sine	Co-Tang.	Tangent.	-
N	Corjens	The Park	Langue.	a sugetite	M
10000	to be designed from the party	Account to the second s	AND DESCRIPTION OF THE PERSON	A CONTRACTOR OF THE PARTY OF TH	

Degree 34.

M	Sine	Co fine	Tanger t	Co-Tang.	
-0	9-747562	9.918574	9.828937	10.171012	60
-	9.747749	9.918489	9.829260	10.170740	59
2	9.747936	9.918404	9.829532	10.170468	58
3	9.748123	9.918318	9.829805	10.170195	57
4	9:748310	9.918233	9.830077	10.169923	56
5	9.748497	9.918147	9.830349	10.169651	55
6	9.748683	9.918052	9.830621	10.169:79	54
7	9.748870	9.917976	9.830893	10.169156	53
8	9.749056	9.917891	9.831165	10.168503	52
9	9.749242	9.917805	9.831705	10.168291	51
10	9.749429	9.917719	9.831981	10.168019	49
11	9.749615	9.917548	9.832253	10.167747	48
12	9.749801	9.917462	9.832525	10.167475	47
13	9.749986	9.917376	9.832796	10.167204	46
14	9.750172	9.917290	9.833068	10.166932	45
15	-	9.917204	9.833339	10.166660	44
16	9.750543	9 917118	9.833611	10.166389	43
17	9.750914	9.917032	9.833882	10.166118	42
19	9.751099	9.916945	9.834154	10.165846	41
20	9.751284	9.916859	9.834425	10.165575	40
21	9.751469	9.916773	19.834696	10.165304	39
22	9.751954	9.916686	9.834967	10.165033	38
23	9.751838	9.915600	9.835238	10.164762	37
24	9.752023	9-916514	9.835509	10.164491	36
25	9.752207	9.916427	9.835780	10.164220	35
26	9.752392	9.916240	9.836051	10.163949	34
27	9.752576	9.916254	9.836322	10.163678	33
28	9.752760	9.916167	9.536593	10.163407	32
29	9.752944	9.916080	9.836864	10.162866	31
30	9.753128	9.915994			30
200	Co-sine	Sine	Co-Tang.	Tangent	M

Degree 34.

31 9 32 9 33 9 34 9	9.753123 9.753312 9.753495 9.753679 9.753862 9.754046 9.754229	9 915091 9.915907 9.915820 9.915733 9.915746 9.915559 9.915472	9.837134 9.837405 9.837675 9.837946 9.838216 9.838487	10.162595 10.162595 10.162325 10.162054 10.161784 10.161513	30 29 23 27 26
31 9 32 9 33 9 34 9	9.753312 9.753495 9.753679 9.753862 9.754046	9.915907 9.915820 9.915733 9.915546 9.915559	9.837675 9.837946 9.838216 9.838487	10.162325	23
32 9 33 9 34 9	9.753495 9.753679 9.753862 9.754046 9.754229	9.915820 9.915733 9.915546 9.915559	9.837946	10.162054	27
33 9	9.753679 9.753862 9.754046 9.754229	9.915733 9.915546 9.915559	9.838216	10.161784	
34 9	9.753862 9.754046 9.754229	9.915546	9.838487	Later Control by M. Co. Co. Co.	26
AND DESCRIPTION OF THE PERSON	0.754229		the state of the s	10.161612	
Street Street	DESCRIPTION OF THE PARTY OF THE	9.915472			25
36 9	DESCRIPTION OF THE PARTY OF THE		9.838757	10.151243	24
THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	TT	9.915.85	9.839027	10.160973	23
1100	-754595	9.915297	9.839297	10.160702	22
39 9	2.754778	9.915210	9.839568	10.160432	21
40 9	9.754950	9.915121	9.839838	10.160152	20
41 9	7-755143	9.915085	9.840108	10.159892	19
	9.755325	9.914918	9.840378	10.159622	18
	9.755508	9.914860	9.340647	10.15)352	17
44 9	9.755590	9.914773	9.840917	10.159083	16
45 5	9.755872	9.914585	9.841187	10.158813	15
46 5	9.756054	9.914597	9.311457	10.158543	14
	9.756236	9.914510	9.841725	10.158273	13
48	9.755418	9.914422	9.811995	10.158001	12
	9.756600	5.911334	9.842256	10.157734	11
50	9.756781	9.914246	9.8+2535	10.157465	10
51	9.756963	9.914158	9.812301	10.157195	8
AND DESCRIPTION OF THE PERSON NAMED IN COLUMN 1	9.757144	9.914070	9.813074	10.155926	
53	9.757305	9.913932	9.813343	10.155657	76
THE RESERVE AND ADDRESS OF THE PERSON NAMED IN	9.757507	9.913891	9.343602	10.156387	TO RESIDEN
The Bearing British	9.757683	9.913306	9.813832	10.155118	5
56	9.757369	9-913718	19.811151	10.155849	14
	9.758049	9.713630	19.841120	10.155580.	3
58	9.758230	9.913542		10.155511	2
59	9.758111	9.913453	9.841958	10.155042	0
	9.758591	9.913304	9.845227	10.154774	1-
1	Co fine	Sine	Co.Tang.	Tangenc.	IM

Degree 35.

M	Sine -	Co-fine	Tangent	Co. Tang.	
0	9.758591	9.913364	9.845227	10.154774	60
I	9.758772	9.913276	9.845496	10.154504	59
- 2	9.758952	9-913187	9.845764	10.154235	53
3.	9.759132	9.913031	9.346533	10.153957	57
4	9.759312	9.913010	9.846302	10.153698	56
5	9.759492	9.912972	9.846570	10.153429	55
6.	9-759672	9-912833	9.846839	10.153161	54
-	9-759851	9.912744	9.847107	10.152892	53
8	9.760031	9.912555	9.847376	10.152124	52
9	9.760210	9.912566	9.847644	10.152356	51
10	9.760390	9.912477	9.347913	10.152037	50
LI	9.760569	9.912;85	9.848181	10.151819	49
12	9.960748	9.912299	9.848449	10.151551	48
13	9.760927	9.912210	9.848717	10.151283	47
14	9.761166	9.9:2121	9.843685	10.151015	45
15	9.761285	9-912031	9.549254	10.150746	45
16	9.761464	9.911942	9.819522	10.150478	44
17	9.761642	9 911853	9.849789	10.150215	43
18		9.911763	9.850057	10.149643	42
19		9.911674	9.8503.5	10.149675	41
20-	9.762177	9.911584	9.850593,	10.149108	40
21	9-762455	9.911495	9.850861	10.149139	39
22	9.762534	9.911405	9.551128	10.148372	83
23	9.762712	9.911315	9,851396	10.148504	37
24	9.762889	9.911225	9.351664	10.148336	36
25	9.763057	9.9 1136	9.851931	managed that the property of	35
25	2.753215	9.911046	9.852199	10.147801	34
27	9.763422	9.910936	9.852466	10.147534	33
28	9.763599	9.910855	9.352701	10.147257	32
2.9	9-763777	9.910775	9.853268	10.141732	30
30	9.763954	9.9:0585	The second second	and the second second	1000
JA.	Co-sine.	Sine	Co Tang.	Tangent	M

Degree 35.

M	Sine	Co fine 1	Tangent	Co Tang.	
30	9.763955	9.910686	9.853268	10.146732	30
31	9.764131	9.910595	9.853535	10.146465	29
32	9.764306	9.910506	9.853802	10.146198	28
33	9.764486	9.910415	9.854059	10.145931	27
34	9.764662	9.910325	9.854336	10.145664	25
35	9.764838	9.910235	9.854603	10.145397	
36	9.765015	9.910144	9.854870	10.145130	21
37	9,765191	9.910054	9.852137	10.146853	23
38	9-765367	9.909963	9.855101	10.146596	21
39	9.765544	9.909873	9.855671	10.145329	20
40	9.765720	9.909782	9.855937	10.145053	
41	9.765896	9.900144	9.856204	10.143796	18
42	9.766071	9.900054	9.356471	10.143529	17
43	9.766247	9.909963	9.856737	10.143263	16
44	9.766423	9.909373	9.857004	10.142995	15
45	9.756598	9.909782	9.857270	10.142730	14
46	9.766774	9.909237	9.357537	10.142463	13
47	9 766 949	9.909145	9.857803	10.142197	12
48	9.767124	9.909055	9.858069	10.141931	II
49	9.767299	9.908954	9.858336	10,141398	10
50	9.767474		-		0
51	9.767649	9.908781	9.858358	10.141132	8
52	9.757824	9.908590	9.859134	10.141166	7
53	9.767997	9.908599	9.8,9400	10 140600	6
54	9.768348	9.903116	9.859656	10.145334	5
55	Contractor of Street, Square,	THE PERSON NAMED IN COLUMN 1	9.859932		4
55	9.768522	9.908324	9.850: 98	10.139802	3
57 58	9.763871	9.908233	9.860464	10,139536	2
59	9.76 9045	9.908010	9.860730	10.139270	1
60	9.769219	9.907958	9.861251	10.138739	0
-	STATEMENT AND ADDRESS OF	1			M
-	Co-fine	Sine	Co Tang.	Tangent,	

De	gr	ce	2	6.
THE REAL PROPERTY.				191

M	Sine ;	Cifito (Tingent	Co-Tang.	
0	9.759219	9.907958	9.861251	10.138739	60
I	9.769392	9.907856	9.351527	10.138473	59
2	9.769565	9.907774	9.851792	19.138238	58
3	9.759740	9.907682	9.362058	10.137942	57
40	9.759913	9.307593	9.862323	10.137677	56
5	9.770087	9.907493	9.852589	10.137411	55
6	9.770260	9.907.405	9.562854	10.137145	54
8	9.770433	9.907314	9.853119	10.136835	53
9	9.770605	9.907221	9.853550	10:135350	51
10	9.770779	9.907129	9.863915	10.135095	50
11	9.771125	9.905915	9.854183	10.135820	49
12	9.771298	9.905852	19.35+145	10.135554	48
13	9.771270	9.906750	9.854710	10.135289	47
14	9.771643	9.905567	9.361975	10.135024	46
15	9.771815	9.906574	9.865247	10.134759	45
16	9.771987	9.905182	9.865505		44
17	9.772159	9.905387	9.855770		43
18	9.772331	9.905295	9.866036	10.133965	42
19	9.772503	9.905203	9.366300		41
20	9.772675	9.905111	-		40
21	9.7723+7	9.905013	9.857094	10.133171	139
22	9-773018	9.705925	9.857358		33
23	9.773190	9.905332	9.367623		36
25	9.773533	9.905545	9.857837	10.132113	35
25	9.773704	9.905552	9.858152	10.131843	34
27	9.773875	9.905459	9.858416	The state of the s	
28		9.905365	9.353530	The state of the s	32
29.	19.774217	9.905272	19.853945	A CONTRACTOR OF THE PARTY OF TH	10
30	The second second	9.905179	9.35 , 209	-	. 1 2
	Co sine	Sine	Co-Tang	. Tangene	M
-					No. of Street, or other Designation of the last of the

	Degree 36.								
TV	11	Sine	Co fine	Tangent	Co Tang.	1			
39	5	9.774388	9.905179	9.869209	10.130791	30			
3		9.774558	9.905085	9.859773		29			
3	2	9.774729	9,934952	9.85,9337		28			
3	3	9.774899	9.504898	9.870001	ENCINCATION &	27			
3		9.775070	9.901801	9.870265	1000000	26			
3	5	9.775240	9.904711	9.870529		25			
13	6	9.775410	9.904617	9.870743		21			
13	7	9.775580	9.904523	9.871057	200	231			
13	8	9.775750	9.904429	9.871321	2//	22			
1.3	9	9.775920	9.904335	9.871585	The Control of the Association of the	20			
14	10	9.776090	9.904241	9.871849	Command opposition of the	-1.			
1 4	1	9.776259	9.904147	9.872112	10,127888	19			
1	12	9.776429	9.904053	9.872316	10.127624	17			
1	43	9.776598	9.903959	9.872640	10.127360	16			
4	14	9.776763	9.903864	9.872903	10.127097	15			
1	45	9.776817	9.903770						
1	46	9.777106	9.903676	9.373450	10.126570	14			
	47	9 777275	9.903581	9.873694	10.126306	12			
4	48	9.777444	9.903486	9.873957	1 0 1	11			
	49	9.777613	9.903392	9.874220	10.125780	10			
	50	9.777781	1			-			
	51	9.777950	9.903203	9.874747		8			
	52	9.778119	9.903108	9.875010		7			
3	53	9.778287	9.903013	9.875536					
N	54	9.778455	9.902324	9.875795	The state of the s	5			
4	55	9.778623	9.902324	9.87606	-				
	56	9.778792	9.902729	9.87632					
1	57 58	9.778960	CONTRACTOR OF THE PARTY OF THE	9.87658	9 10.123411				
0-		9.779129	AND BLACKSON TO THE PROPERTY OF STANDING	9.87685	10.123149	-			
10	59	9.77929	ARREST OF THE PERSON NAMED IN COLUMN 2 IN	9.8.7711		C			
-	60	Co-fine		Co Tang	-	M			

Degree 53.

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1 3	20	11PA	3	197
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	6.7			ALC DO

M	Sine 1	Co fine 1	Tangent	Co-Tang.	100
-		-			-
0	9-779463	9.902349	9.87711	10.122885	60
I	9.779631	9.902254	9.877377	10.122623	59
2	9.779798	9.902158	9.877640	10.122360	58
3	9.779965	9.902063	9.877903	10.122097	57
4	9.780133	9.901957	9.878165	10.121534	56
5	9.785300	9.901872	9.873421	10.121572	55
6	9.780457	9.901776	9.878591	10.121309	54
7	9.780634	9.901681	9.878953	10.121047	53
8	9.780301	9.901585	9.879216	10.120784	52
9	9.780958	3-301488	9.879178	10.120522	51
IO	9.781134	9.901391	9.879741	10.120259	50
II	9.781301	9.901293	9.980003	10.119997	49
12	9.781467	9.901202	9.880255	10.119734	48
13	9.781694	9.901106	9.880528	10.119472	47
14	9.781800	9.501010	9.880790	10.119210	46
15	9.781966	9.900914	9.831052	10:118018	45
16	9-782132	9,900828	9.881314	10.1186.6	44
17	9.782298	9.900722	9.881576	10.118424	43.
18	9.782464	9.900626	9.831839	10.118161	42
19	9.782690	9.900529	9.882101	10.117899	41
20.	9.782796	9.900433	9.882353	10.117637	40
21	9.782961	9.900337	9.832625	10.117375	39
22	9.783127	9.900240	9.982886	10.117114	38
23	9.783292	9.900144	9.883149	10.116852	3.7
24	9.78:457	9.900047	9.883410	10.116590	36
25	9.783623	9.899951	9.883672	10.116323	35
26	9.783788	9.899854	9.883934	10.116066	34
27	9.783953	9.899757	9.834195	10.115805	33
28	9.784118	9.899660	9.884457	10.115543	32
29	9.784292	9.899563	9.884719	10.115281	31
30	9.734447	9.899467	9.884980	-	30
· ·	Co-fine	I Siue	Co-Tang	Tangent.	M
1				-	-

Degree 37.

M,	Sine	Co-sine	1 Tangent	Co Tang.	
30	9.784147	9899467	9.88 +980	10.115020	30
31	9.784616	9.899370	9.835242	10,114758	29
32	9.784776	9:399273	9.885503	10.114497	23
33	9.784941	9.899175	9.885765	10.114235	27
34	9.785105	9.894078	9.985025	10,113974	26
35	9.785269	9.898931	9.836288	10.113712	25
36	9.785433	9.898384	9.886549	10.113451	21
37	9.785591	9.898787	9.886810	10.11319	23
38	9.785761	9.898689	9.887072	10.112028	22
39	9.785925	9.398592	9.887333	10.112667	21
40	9.785038	9.898191	9.8875.94	10.112406	20
41	9.785252	9.898397	9.887855.	10.112145	19
42	9.785416	9.898299	9.888116	10.111834	18
43	9.781579	19.898201	9.583377.	10.111623	17
44	9.785742	1 0 0	9.888538.	10.111362	16
-	-	1	9.888849	10.111101	15
46	9.787059		9.879160	10.110340	14
47	9.787232		9.899121	10.110579	13
49	13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		9.89,682	10.110318	12
	9.787720		9.899943	10.119357	II
51	9.787883	-	The second of	10.109795	10
52	The second secon	9.897418	9.830465	10.109535	8
53	9.788208		9.890725	10.109275	1000
54	00		9.891247	10.108753	76
55	1 190	9.897025	19.891507	10.108193	The second second
1:55	201	The same and the same of	. I will be be a second	10.108232	5
157	1 000		9.892028	19,107972	4 3
58	9.789018	3: 9.396722	9.892299	10.107711	1 3
59		9.845:31	9.892519		1
60	9.78934	2 9.846532	19.892810		0
1	Co fine	Sine	Co. Fing.		M
	-		31700	1	-

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T Breez A Later Control of the Contr	75	
Degree 3	U	×

M	Sine 1	Co fine 11	Tangent'	Co-Tang. 1	-
-		9.896532	9.892810	10.107190	60
0	9.789342	9.896433	9.893070	10.105930	59
I	9.789504	9.896135	9.893330	10.105659	58
2	9.789327	9.896236		10.105409	57
3 4	9.789988	9.895137	9.893851	10.106149	56
5	9.790149	9.856038	9.894111	10.105889	55
6	9.790310	9.8 95939	9.894371	10.105623	54
100	9.79047:	9,895840	9.894632	10.105368	53
78	9.740632	9.895741	9.891892	10.105108	52
9	9.790793	9.895641	9.895152	10.104848	51
IO	9-790954		9.895412	10.104328	50
II	9.791115	9.895443	9.895672	10.104968	49
12	9.791275	9.895343	9.895932	10.103808	47
13	9.791436	9.895244	9.895452	10.103548	46
14	9.791596	9.895144	9.896712	10.103283	45
15	9.791756	9.895045	9.896971	10.103023	44
16	9.791917	9.894945	9.897231	10.102769	43
17	9.792077	1 7 0	9.897491	10.102509	42
18	9.792237	1 0 1 1	9.897751	10.102249	41
19	1 25	0	9.898010	10.101990	40
20	1	-	9.898270	10.101730	139
21	1	THE REAL PROPERTY AND ADDRESS OF THE PARTY AND	9.998530	10.101470	38
22	1	THE RESERVE OF THE PARTY OF THE	9.898759	10.101211	37
24	I TOP	9.894146	9.899049	10.100951	36
25			9.899308	-	1
126	District Control of the Control	9.893946	9.849568	10.100432	1 2 1
27	9.793673	9.893845	9.899327	10.100173	Contract of the Contract of th
128	9.793832	9.893745	9.900086	10.099554	
129	9.793991	179.093045	9.900505	The state of the s	
130	9.794149	The state of the s	Co-Tans	The same of the sa	1
1	Co-fire	1 Sine	1 CO-1 ans	Langene	4.11
12			and the same	The state of the s	- 151.3

Degree 51.

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D	13	0	4"	a	0	2	Q	
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M	Sine	1 Co sine	Tangent	Co-Tang.	
30	9.794149	9.893544	9.900605	10.099395	30
31	9.794308	9.893444	9.900864	10:099135	29
32	9.794467	9.893343	9.901121	10.098876	28
33	9.794626	9.893243	9.901383	10.098617	27
34	9.794784	9.893142	9.901642	10.098358	26
35	9.794942	9.893041	9.901901	10.098099	25
36	9-795101	9.892940	9.902160	10.097839	24
37	9.795259	9.892839	9.902419	10:097580	23
38	9.795417	9.892738	9.902678	10.097321	21
39	9.795575	9.892637	9.902937	10.097062	20
40	9.795733	Committee of the Sandanasan Co.	9.903196	10.096803	-
41	9.795891	9.892455	9.903455	10.096544	18
42	9.796049	9.892334	9.903714	10.096285	17
43	9.795364	9.892232	9.903973	10.096027	16.
44	9.796521	9.892491	9.904232	10.095768	15
46	9.796678	9.891929		10.095250	14
47	9.796836	9.891827	9.904750	10.094991	13
48	9.796993	9.891726	9.905267	10.094733	12
49	9.797150	9.891624	5.905526	10,094474	II-
50	9.797307	9.891522	9.905784	10.094215	IO
51	9.797464	9.891421	6.906043	10.093957	9
52	9.797521	9.891310	9.906302	10.093648	8
53	9.797777	9.891217	9.906560	10.093440	71
54	9.797934	9.891115	9.906819	10.093181	6
55	9.798091	9.891013	9.907077	10.092923	5
56	9.798247	9.890911	9.907336	10.092664	4
57	9.798403	9.890809	9.907594	10.092406	3
58	9.798560	9.890707	9.907852	10.092147	2
59	9.798716	9.890605	9.908111	10.091889	I
60	9.798872	9.890503	9.908369	10.091631	0
2000	Co-sine	Sine	Co-Tange	Tangent.	M

Degree 51.

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	13	68	20.3	0	3	~
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M	Sine I	Co fine	Tangent	Co-Tang.	
-0	9.798872	9.890503	9.908369	10.091631	60
-	9.799028	9.890400	9.908627	10.091373	59
2	9.799184	9.890298	9.908885	10.091114	58
3	9.799339	9.890195	9.909144	10.090356	57-
4	9.799495	9.890093	9.909 402	10.090598	56
5	9.799551	9.889990	9.909600	10.090340	55
6	9.799806	9.839888	9.909918	18000001	54
78	9.799961	9.889785	9.910176	10.039:23	53
8	9.800117	9.889682	9.910135	10.089565	52
9	9.800272	9.889579	9.910593	10.089307	51
10	9.800427	9.889476	9.910951	10.089019	50
II	9.800582	9.88.9374	9.911209	10.088791	49
12	9.800737	9.889271	9.911467	10.083533	48
13	9.800892	9.889167	9.911724	10.083017	47
14	9.801047	9.888961	9.911932	10.08,7760	46
15	9.301201		Married Construction of the last of the la	10.087502	五
16	9.801356	9.888358	9.912498	10.087244	44
17	19.801510	9.888651	9.913014	10.035985	43
1.9	9.801819	9.838548	9.913271	10:085729	41
20	1 2 2 2 2 2	9.888114	9.913529	10.086471	40
21	9.802127	9.888341	9.913787	10.085213	39
22	9.802282	9.898237	9.914044	10.085956	33
23	9.802435	9.888133	9.914302	10.085598	37
24	9.802589	9.888030	9.91456	10.085440	36
125	9.802743	9.887926	9.914817	10.085183	35
26	9.802897	9.887822	9.915075	10.08 1923	34
27	9.803050	9.387713	9-915332	10.084568	33
28	THE RESIDENCE ASSESSMENT AND ADDRESS OF THE PARTY OF THE	9.887514	9.915550		132
29		9.887510	9.915847		31
30		9.887405	9.915101	The second second	30
1	Co-sine	S ine	Co-Tang.	Tangent.	M

Degree 50.

Degree 39.

M	Sine	Co-fine	Tangent	Co.Tang.	100
30	9.803510	9 837406	9.916104	10.083895	30
3.I	9.803664	9.837302	9.916362	10.083638	29
32	9.803817	9.887198	9.916619	10.083381	23
33	9.803970	9.837073	9.916876	10.083123	27
134	9.804123	9.885989	9.917134	10.082866	26
35	9.804276	9.836884	9.417391	10.082609	25
36	9.301138	9.886780	9.917548	10.082352	21
37	9.801581	9.886675	9.917905	10.082094	23
39	9.804734	9.886571	9.918162	10.081837	22
40	9.804896	9.686466	9.418420	10.081580	21
41	9.805038	9.886361	9.918677	10.081323	20
42	9.803191	9.885257	9.918934	10.080066	18
43	9.805343	9.885152	9.919191	10.080809	1000
44	9.805495	9.885047	9.919448	10.080552	17
45	9.835647	9.835912	9.919705	10.080295	20 10
46	9.305799	91585837	9.919962	10.080038	15
47	9.805951	9.335732	9.920219	10.07 9781	14
43	9.806103.	9.885627	9.920476	10.079524	13
49	9.806251	9.835416	9.920733	10.07925/	ir
50	9.805557	9.883311	9.920990	10.078753	IO.
51	-		1		10
52	9.806860	9.835205	9.921503	10.078495	8
53	9.807011	9.835100	9.921760	10.078240	60 3
54	9.807162	9.884889	9.922017	10.077983	7
55	9.807313	9.884783	9.922530	10.077469	5
56	9.807464	9.384677	Committee annual business of the	Children - beaten	4
57	9.807615	91881572	9.922787	10.077213	3
58	9.807766	9.884466	9.923300	10.076699	2
59	9.807917	9.834350	9.923557	10.076443	61
60	9.808057	9.834251	9.923813	10.076186	0
4	Co fine	Sino	Comment of the Parket of the P	Tangent.	M
-				- railerine .	

Degree 50.

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1	-	CONTRACTOR OF STREET	1000				
1	M	Sine 1	Co-fine	Tangent	Co. Tang.		
1	0	9.808067	9 884254	9.923813	10.076186	60	
1	TI	9.808218	9.884148	9.924070	10.075930	59	
4	2	9.808368	9.884042	9.924327	10.075673	58	
1	3	9.808519	9.883936	9.924583	10.075417	57	
1	4	9.808669	9.883829	9.924839	10.075160	56	
	5	9.808819	9.883723	9-925095	10.074904	55.	
-	6	9.808969	9.88;617	9-925352	10.074647	54	
-	7	9.809119	9.883510	9.925609	10.074391	53.	
-	7 8	9.809269	9.883404	9.925855	10.074135	52	
ı	9	9.809419	9.883297	9.925121	10.073878	51	
ě	10	9.809569	9.883191	9.926378	10.073622	50	
K	11	9.809718	9.883084	19.925634	10.073366	49	
-	12	9.809868	9.882977	9.926890	10.073110	48	
F	13	9.810017	9.882871	9.927147	10.072853	47	
	14	9.810166	9.882764	9.927403	10.072597	46	
	15	9.810316	9.882657	9.927659	10.072341	45	
F	16	9.810465	9.882550	9.927915	10.072085	44	
N. T	17	9.890614	9.882443	9.928171	10.071829	43	
. N.	18	9.810763	9.882336	9.928427	10.071573	42	
100	19	9.810912	9.882228	9.423683	10.07.1316	41	
13	20	19.811061	9.882121	9.928940	10.071000	40	
	21	9.811210	9.882014	19.929196	10.070804	39	
	22	9.811358		9.929452	10.070548	38	
	23	9.811506	9.831799	9.929708	10,070292	37	
	124	9.811655	9.881692	19.429964	10.070036	36	
	25	9.811804	Annual Contract of the Contrac	9.930219	10.069781	35	
	26	9.811952	9.881477	19.930475	10.069525	34	
	27	9.812100		9.930731	10.05 4269	33	
	28	9.81 2248		9.930987	10.069013	32	
	29	9.812396	9.881153	19.931243	10.068757	31	
	30	9.812544	9.881045	9.931499	-	30	
	1	Co-fine	Sine	Co.Tang.	Tangent.	M	
	The same	SA CONTRACTOR OF THE	THE PARTY OF THE PARTY OF	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa	No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street,		

	Degree 40.								
M	Sine ,	Co-fine	Tangent	Co Tang	34				
30!	9,812544	9.881045	9-931449	10.058501	30				
31	9.912692	9.880939	9.931755	10.058245	29				
32.	9.812340	9.880827	9.932010	10.067959	23 1				
33	9.8:2988	9.880722	9.932265	10.067731	271				
34	9.813135	9.830513	9.9:,2522	10.067478	26				
35	9.813233	9.880505	9.932778	10.057122	35				
35	9.813430	9.880397	9.933033	10.066957	24				
37	9.813578	9.885289	9.9,3289	10.055711	23				
	9.813725	9.880180	9.933545	10.066250	22				
39	9.813872	9.880072	9.933800	10.065944	20				
40	9.814019	9.889953		10.065683	19				
41	9.814166	9.879855	9.934311	10.065433	18				
42	9.814313	9.879745	9.934822	10.065177	17				
43	9.814460	9.879537	9.935078	10.064622	16				
4.5	9.814507	9.879529	9.935333	10.054656	15				
46	9.814753	9.879310	9.935589	10.054411	14				
47	9.914900	9.879202	9.935344	10.064156	13				
48	9.815046	9.879093	9.936100	10.06 1900	12,				
49	9.815339	9.878984	9.936355	1,0.063645	II				
50	9.815485	9.878575	9.936610	10.063389	IO				
5.L	9.815531	9.878765	9.935866	10.063134	9.				
52.	9.815777	9.878656	9.937121	10.062879	8 8				
53	9.815923	9.878547	9.937376	10.052673	7				
54	9.816069	9,878438	9.937632	10.062368	6				
155	9.816215	9.878328	9.937837	10.062113	_5				
156	9.816361	9.878219	9.938142	10.061858	4				
57	9.816505	9.878129	9.938397	10.051602	3				
58	9.816552	9.87799	9.938553	10.060092	2. I				
59	9.916797	9.877880	9.938908	10.060837	0				
-	9.316943	9.877783	7		M				
19	1 Co-sine	Sine	Co Tang	Tangent	1471				
-		AND REAL PROPERTY AND REAL PROPERTY.	The state of the s	100	30 800 48				

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M	Sine	Co-sine	Tangent	Co-Tang.	140
-0	9.8.16943	9.877780	9.939163	10.060837	60.
1	9.817088	9.877670	9.939418	10.060582	5.9
2	9.817233	9.877560	9.939673	10.060327	58.
3	9.817378	9.877450	9-939928	10.060072	57
4	9.817528	9.877340	9.940183	10.059816	56
5	9.317668	9.877230	9.940438	10.059562	55
5 6	9.817813	9.877120	9.940693	10,059307	5+
	9.817958	9.877009	9.940948	10.059052	53
8	9.818103	9.876899	9.941203	10.058797	52
9	9.818247	9.876678	9.941458	10.058542	50
LO	9.818492	9.876568	9.941713	10.058032	-
LI	9.818536	9.876457	9.941968	10.057777	49
12	9.818825	9.876347	9.942223	10.057522	47
13	9.818969	9.876236	9.942733	10.057257	46
14	9.819113	9.876125	9.942983	10.057012	45
15	9.819257	9.876014	9.943243	10.056757	44
16	9.819451	9.875904	9.943498	10.056502	43
17	9.819545	9.875793	9.943752	10.056248	42
19	0.819680	9.875682	9.944097	10.055993	41
20	9.819832	9.875571	9.944262	10.055738	40
21	9.819976	9.875459	9-944517	10.05 5453	39
22	9.820119	9.875348	9.944771	10.055229	39
23	9.820263	9.875237	9.945026	10.054974	37
24	9.820406	9.875125	9.945281	10.054719	36
25	9.820549	9.875004	9-945535	10.054464	35
26	9.820693	9.874903	9.945790	10.054210	34
27	9.820836	9.874791	9.946045	10.053055	33.
28	9.820979	9.874568	9.946299	10.053701	32
29	9.821122	9.874450	9.946554	10.053192	30
30	-	Sine	THE OWNER WHEN	Tangent	60,000
To s	Co sine	1 200 2 13	Co-Tange	Trubeill	M.

1							
	0	0	**	0	0	10000	21.
U	C	Ł	1	C		4	No.
	-	σ	wa				Contract of

M	Sine ,	Co-fine	Tangent,	Co.Tang.	
30	9.821254	9.874456	9.946808	10.053192	30
31	9.321407	9.874367	9.947063	10.052937	29
32	y.821550	9.874210	9-947317	10.052682	23
33	9.821692	9.874172	9.947572	10.092428	27
34	9.321835	9.874008	9.947826	10.052173	26
35	9.821977	9.0/3895	9.948081	10.051919	25
36	9.822125	9.873784	9.948335	10.051664	24
37	9.822252	9.373672	9.918590	10.051410	23
33	9.822404	9.573550	9.948844	10.051156	22
139	9.822546	9.873447	9.949099	10.050901	21
40	9.8 22583	9.8/3223	9.949607	10.050393	
41		9.873110	9.949862	10.0,0135	19
42	9.822972	9.872993	9.950-116	10.049884	17
1 43	- 0	9.372885	9.950370	10.049630	16
144	C.	9.872772	9.950625	10.049375	15
N 1977	0 0	The second secon	9.950879	10.049121	14
46			9.951233	10.018867	13
48	1 12 - 12	1 0	9.951338	10.048612	12
49	1 0	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	9.951642	10.048358	III
50		and the second second	9.951895	10.048104	IO
51	-	9.372094	9.952150	10.047850	1-91
52	13 150	9.371931	9.952404	10.047575	8
5	The state of the s	9.871858	9.952659	10.047341	7
5	0	1 9.871755	9.952915	10.047367	The second second
5	9.82480		9.953167	THE RESERVE TO SHARE THE PARTY OF THE PARTY	-
5	THE RESIDENCE OF THE PARTY NAMED IN	9.871538	9.953421		
15	7 9.82509	0 9.071414			
5	8 9.82523	9.871301	9.95392	10.045071	2
THE RESERVE	9 9.82537		9.95418		1 0
6	0 9.82551	and the second s	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN		
8	Co-fine	Sine	1 Co Tang	· Tangent	M
-			THE PERSON NAMED IN COLUMN TWO		

Degree 48.

Degree 42.

M	Sine	Co fine	Tangent	Co-Fang.	M
0	9.825511	9.871073	9.954437	10.045562	60
I	9.825651	9.870950	9.9.54691	10.045308	59
2	9.325791	9.870846	9.951915	10.015054	58
3	9.825931	9.870732	9.955199	10.044800	57
1 4	9.826071	9.870918	9.955453	10.0445 16	56
5	9.325211	9.370504	9.955707	10.044292	55
6	9.825351	9.870390	9.955961	10.044038	154
7 8	9.825491	9.870175	9.956215	10.043784	53
1000	9.825631	9.870161	9.455469	10.043531	52
19	9.826770	9.870047	9.956723	10.0132/6	51
Lo	9.826930	9.869933	9.956977	10.043023	50
II	9.827049	9.869818	9.957231	10.042769	49.
12	9.327189	9.869704	9.957485	10.042515	43
13	9.827323	9.869589	9.957739	10.042251	47
14	9.827457	9.869474	9.957993	10.042,007	46
15		9.869360	9.953245	10.011753	45
16	9.827745	9.869245	9.958 500	10.041500	4.1
17	9.828 23	9.869130	9.958754	10.041246	43.
19	9.828162	9.869015	9.959008	10.040992	42
20	9.828301	9.868785	9.959252	10.040738	41 40
	9.828439	9.868570	9.959515	THE RESERVE AND ADDRESS OF THE PERSON NAMED IN COLUMN 1971	-
21 22	9.828578	9.868555	9.959769	10.040231	39
23	9.823716	9.868429	9.960023	10.039977	38
21	9. 328855	9.868324	9.960530	10.039469	37
25	9.828993	9.868209	9.960784	10.039216	30 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -
25	9.829131	9.858092	9.961038	10.038962	35
27	9.829259	9.867978	9.961291	10.038708	34
28	9.829407	9.857562	9.961545	10.038455	33
29	9.829545	9.867747	9.961799	10.038201	31
30	9.829683	9.857631	9.962052	10.037947	30
	Co sine	Sine	Co. Tang.	Tangent	M

D	e	g	r	e	e	4	2.

-		CONTRACTOR OF THE PARTY OF THE	-	C. T.	14-2
P	M, Sine	1. Co-sine	11 Tangent	Co-Tang	: -
1 2	9.829683	9.867631	9.962052	10.037947	30
	-1 82-82-	9.867515	19.962305	10.037694	1 29
33	0 802000	THE RESERVE OF THE PARTY OF THE	19.962560	10.037140	28
13	10 830006	19.867293	9.962813	10.037187	EST. MODERNA PRIN
3	10070734		19.963067	10.036933	OR DESIGNATION OF THE PERSON NAMED IN
3:	0 620170	9.867051	9.963320	10.036680	-
35	- I - V	9.856935	19.963574		_
			9.963827	10.036173	1000000
37	9.830784	The second secon	9.964081	10,035910	
39	9.030921	9.866585	19.964335	10.035665	21
40	9.031050	9.866470	9.964588	10.035412	20
41	9.831195	9.866353	9.964842	10.035158	19
42	9.031332	9.866237	9.965095	10.034605	18
43	9.031109	9.866120	9.965348	10.034552	17
44	9.031005	9.866004	9.965602	10.034398	222 0000
45	9.831742	9.865887	9.965855	10.034144	15
46	9.831879	9.855770	9.966109	10.033891	14
47	9.032015	9.865653	9.966362	10.033638	13
48	9.832152	9.865536	9.966869	10.033384	II
49		9.865419	9.957122	10.232878	10
50	1 . 3	THE PERSON NAMED IN COLUMN			
51	9.832,61	9.865185	9.957376	10.032624	85
52	9.832697	9.865068	9.967629	10.032371	503,000 8
53	9.832969	9.864833	9.968136	10.031864	7
54	9.833105	9.864716	9.968389	10.031611	51
55	9.83324L		9.958643	PROPERTY AND PERSONS NAMED IN	4
56	9.833375	9.864598	9.968396	10.031357	3
57	9.833512	9.864363	9.969149	10.030851	2
		9.864240	9.959403	10.030597	1.
59	9.831783	9.864127	9.969656	10.030344	0
60	Co fine	Sine	-	Tangenr.	M
1	Co but 1	Onic 1	DA THIES	and the second	-
3/2/	SHARE OF SERVICE	Dec	200 18	5004 1000	

Degrée 47:

30				
	PA	ree	42	
~	CK		44	
	0		STATE OF THE PARTY.	

M	Sine	Co-fine	Tangenti	Co-Tang: 1	-
	-	-	-		-
0	9.823783	9.864127	9.959556	10.030344	60
10	9.833919	9.864010	9.959909	10.030091	59
2	9.834054	9.863892	9.9701.62	10.02,838	58
3	9.834189	9.863774	9.970416	10.029584	57
4	9.834324	9.863656	9.970669	10.029331	56
5	9.834460	9.863537	9.970922	10.029078	55
6	9.834595	9.863419	9.971175	10.028525	54
7 8	9.834730	9.853301	9.971428	10.023572	53
8	9.834865	9.863183	9.971682	10.028318	52
9	9.834999	9.863064	9.971 935	10.029065	51
10	9.835134	9.862946	9.972188	10.027812	50
IL	9.835269	9.862827	9.972441	10.027559	49
12	9.835403	9.862709	9.972694	10.027306	48
113	9.835538	9.862590	9-972948	10.027052	47
14	9.835672	9.862471	9-973201	10.025799	46
15	9.835805	9.862353	9.973454	10.026546	45
16	9.835941	9.862234	9.973707	10.026293	44
17	9.836075	9.852115	9.973960	10.026040	43
18	9.836209	9.861996	9.974213	10.025787	42
19.	9.836343	9.861877	9-974466	10.025533	41
20	9.83 477	9.861757	9.974719	10.025280	40
21	Committee of the Commit	9.861638	9-974973	10.025027	39
122	9.836745	9.861519	9-975225	10.024774	38
23	I A XXXXXX	9.861399	9.975479	10.024521	37
124	9.837012	9.851280	9.975732	10.024268	36
25	-		9.975985	The state of the s	35
26	9.837279	9.861041	9.976233		34
27	9.837412	9.860921	9.976491		33
28	1 - 0 /		9.976744		101.000.0003
29	1 - 0	9.860562	1. 1. 1. 1. 1. 1.		100
30	1		9.977250		120
11	1 Co sine	1 Sine	Co-Tang	Tangent	M
1	Sales State of the lates of the	Commerce Property	the same and the same of the same of	THE RESERVE OF THE PARTY OF THE	

Degree 43.

24	M. Sine Co fine Tangent Co Tang.									
M	Sine	Co sine	-	10.022750	30					
30	9.837812	9.860562	9.977250	-						
31	9.837945	9.860122	9.977503	10.022497	29					
32	9.838078	9.860322	9.977756	10.022244	28					
33	9.838211	9.860202	9.978009	10.021991	27 26					
134	9.838344	9.860082	9.978262	10.021738	25					
35	9.838477	9.859962	9.978515		-					
36	9.838609	9.859842	9.978768	10.021232	24					
37	9.838742	9.859721	9.979021	10.020979	23					
38	9.838875	9.859601	9.979274	10.020726	21					
39	9.839007	9.859480	9.979527	10.020473	20					
40	9.839140	9.859360	9.979780	-						
41	9.839272	9.859239	9.980033	10.019967	19					
42	9.839404	9.859118	9.980235	10.019714	18					
43	9.839536	9.858998	9.980538	10.019461	17					
44	9.839668	9.858877	9.980791	13.019209	16					
45	9.839800	9.858756	9.981044	10.010956	15					
46	9.839932	9.858635	9.981297	10.018703	14					
47	9840064	9.858514	9.981550	10.018450	13					
48	9.840195	9.858193	9.931803	10.018197	12					
49	9.840328	9.858272	9.982056	10.017944	II					
50	9.840459	9.858150	9.982309	10.017691	10					
51	9.840591	9.858029	19.982562	10.017438	2					
52	9.840722	9.857908	9.982814	10.017185	8					
53	9.840854	9.857786	9.983067	10.016933	7					
54	9.840985	9.857665	9.983320	10.016680	6					
55	9.841116	9.857543	9.983573	10.016427	5					
56	9.841247	9.857421	9.983826	10.016174	4					
57	9.841378	9.857300	9.984079	10.016921	3					
58.	9.841509	9.857178	9.984331	10.015668	2					
59	9.841640	9.857056	9.984584	10.015416	I					
00	9.841771	9.856954	9.984837	10.015163	0					
7	Co-fine	Sine	Co. Tang	Tangent	1					
-	OR OTHER DESIGNATION	Marie Control								

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D	e	g	r	e	e	4	4	Į	
	_						-		

	G:		_		-
M	Sine	Co sine	Kangent	Co-Tang.	419
10	9.841771	9.856934	9.984837	10.015162	60
1 1	9.841902	9.856812	9:985090	10,014910	59
2	9.842033	9.856690	9.985343	10.014657	58
1 3	9.842163	9.856568	9.985596	10.015404	57
14	9.842294	9.856445	9.985848	10.014151	56
1-3	9.842924	9.856323	9.986101	10.013899	55
16	9.842555	9.856201	9.986354	10.013646	54.
3 3	9.842685	9.856078	9.996607	10.013393	53.
10	9.84 815	9.855956	9.986859	10.013140	52
110	9.842945	9.855833	9.987112	10.012583	51.
-	7.470/0	9.855710	9.987365	10.012635	50
4II	9.813206	9.855588	9.987618	10.012382	49
112	9.843336	9.855465	9.987871	10.012129	48.
13	9.843465	9.855342	9.988123	10.011877	47
15	IN TOUTU	9.855219	9.988376	10.011371	46
116	9.343725	9.855095	The state of the s	10.011118	45
117	17,043,00	9.854973	9.988882	10.010866	44
1 18	19.843984	9.854850	9.989.34	10.010613	43
119	9.844243	9.854603	9.939640	10.010360	42.
20		9.854480	9.989893	10.010107	40
21	9.844502	9.854356	9.990145	10.009855	39
22	9.844631	9.854233	9.990398	10.009602	38,
123		9.854109	9.990651	10.009349	37
24	9.844889	9.853986	9.990903	10.009096	36
25	9.845018	9.853862	9,991156	10.008844	35.
126	9.845147	9.853738	9.991409	10,008591	34
127	19.815276	9.853614	9.991662	10.008338	33.
28	9.845404	9.853490	9.991914	10.008086	32.
29	11 2000	9.853366	9.992167	10.007833	31
130	9.845662	9.853242	9.992420	10.007580	30
1	Co-fine	Sine	Co.Tang.	Tangent.	M
1	Charles Charles	D			

Degree 45.

Degree 44.

MI	Sine	Co-fire	Tanzenei	Co-Tang.	
-			-		_
30	9.845662	9.853242	9.99242	10.007580	33.
31	9.845790	9.853113	9.992572	10.007328	29
32	9.845919	9.852994	9-992925	10.007075	28
33	9.816047	9.852869	19.993178	10.005822	27
34	9.845175	9.852745	9.993130	10.005559	26.
35	9.846301	9.852520	9.973583	10.005 117	25
36	9.846432	9.852496	9.993935	10.006064	24
37	9.846560	9.852371	9.994189	10.005811	23
38	9.846683	9.852216	9.99+142	10.005559	22:
39	9.846816	9.852122	9.971691	10.005305	21
40	9.346944	9.851997	9.991917	10.005053	20
41	9.847071	9,851872	9.995199	10.001301	19
42	9.847199	9.851747	9.995452	10.001518	18:
43	9.847327	9.851622	19.995705	10.004295	17
44	9.347454	9.851497	19.995957	10.004043	16.
45	9.847582	9 851372	19.995210	10.003790	15
46	9.847709	9.851246	9.996463	10.003537	14
47	9.847030	9.851121	9.995715	10.003285	13.
48	9.847954	9.850995	9.995968	10.003732	12
49	9.848091	9,850370	9.997220	10.002779	II
50	9.848213	The second second	9.997473	10.002527	10-
51.	9.848345	9.850619	9-997725	12.002274	9
52	9.848472	9.850493	19.997979	10.002021	8
5.3	9.848599	9.850357	9.993231	10.001769	7
54	9.848726	9.850242	9.998+84	10.001516	6
55	9.848852	9.850116	9.998737	10.001263	5
56	9.848979	9.849990	9.998989	1101001011	4
57	19.849100	9.849364	9-999242	10.000753	3
58	19.049134	9.849737	19.999495	10.000505	2
159	19.019324	9.349511	9.999747	10.000253	L
60	9.049405	9.819185	10.00000	10.00000	0
1	l Co fine	1 Sine	Co Tang	Tangent	M
1000	101 10 ES 15 ES 15 A	1 37 1 T	A COLUMN TO THE REAL PROPERTY.	TENNE TO LEGIS	-

Degree 45.

A most useful Table, whereby the true time of the Ni ht may be known to a minute, without knowing the Meridian, Height, or Distance of the *.

The State Country		RICE STORY	-	100	
Stars names that	righh asc.	d. in t	Azimuth	1	pr
never fet, and will	in time	bet.the	under	Meri.	=
be under the Pole	under the	pole *	Pole	10	E
Star.	Pole *	& pol:	*	0	Magnitud
State		2 7 1 2 1	100000	LE	
- 35 Carried and C			-	-	
CE DECEMBER 1	h ' "	1 10	0 / //	200	2- 2
1 Calliopeias hip-	12.38.01	00.07	00.01.00	E	3
2 her knee	13.08.33	03.25	00.30.30	E	3
3. In Perseus fide -	15.15.39	14.40	02.21.30	E	2
4 Great Bears lip	20.13.11	09.19	01.43.20	F	4
5 In his left knee	21.16.01	11.59	01.51.30	2000	3
AND DESCRIPTION OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUM		11.08	-		2
6 Lower leader .	22.53.21	AND RESIDENCE TO SHARE THE PARTY OF THE PART	01.33.40	1000	2
7 Upper i'th' wain	22.55.42	12.07	01.29.30	E	
8 The lower in	23.42.52	c6.26	00.57.00	L	2
9. The upper	00.10.33	02.05	00.35.20	E	2
10 Rump or Alist	00.39.18	00.18	00.02.30	W	2
It Laft but one tay!	01.07.09	03.40	00.25.00	W	2
12 Laft of the tayl	01.29.05	05.40	00.55.00	W	2
13 Last turn of Dr.	01.48.12	10.52	01.14.40	W	2
14 Upper guard 1.3.	THE RESERVE OF THE PARTY OF THE PARTY.	25.05	02.01.50		2
15 Lower of lit. B	02.58 42	26.38	02.22.10	_	3
-			200 200	-	A (1)
16 Br. * Drag.hea.	05.25.26	43.17	03.42.44		2
17 Upp. turn of D.	00.30.11	34.54	03.51.20	_	3
18 Cepheus left sho.	08.43.06	27.20	03.10.20	4 60.0	2
19 In his Girdle-	08.55.04	24.43	03.04.40	40000	3
20 Right knee -	11.10.02	17.30	01.21.40	W	3
21 Caffiopeas chair	11:41.37	10.21	00.48.20	W	3
22 In her breaft	12.20.56	01.32	00.15.20	_	3
	23 90 13	M. L.	A STATE OF A	3	
The state of the s	Chicago Page 1	ALCOHOLD SHOP	Transport I	and the same	No.

A Table of the Suns Right Ascension in Time.

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1								
	J. 1	~ 1	Com.		1	0	m	Com. I	-
1	H	H	parts	diff.	1	H	H	A STATE OF THE PARTY OF	diff.
		1	1 11	14	1/2	100	Carlot I	parts	1-1
T	-	II	240			-	8	اغسند	-
2	00	12	7.20	222	133	I	13	55.25	230
3.	0	12	11.10	220	100	1 2	13	59.15	231
4	0	12	14.40	220		2	14	3.06	231
5	0	12	18.20	220	4	2	14	6.57	232
5	-0	12	22.00	10000	1.3	2	14	10.49	233
	0	12	25.41	220	1	2	14	14.42	233
8	0	12	29.22	221	100	2	14	88.35	234
9	0	12	33.03	221	65		14	22.29	234
10	. 0	12	36.44	221	100	2	114	26.23	235
II	10	12	40.25	B. B. B.	1	2	14	-	236
12		12	44.07	222		2	14	34.14	237
13	0	12	47.49	222		2	14	38.11	237
14.		12	51.31	222		2	14		238
15	0	Charles and	55.13	222		2	14		239
16	10	1 0	Contraction.	223	1 6	1-2	1	1	239
17	1	13	2.39	223	16	2		THE RESERVE OF THE PERSON NAMED IN	
18	I	13	6.22	1223		3	14		DAT
19.	10	1.13	10.06	1224		2	The state of the s	ALC: NO LOS CON	241
20	1	13	13.50	1224		313	15	10.10	243
21	I	12	17.34	224		2	1	-	1 445
22	I	13	21.19		11	2	15	14.13	244
23	I	I.3	25.00	225		333	15		1011
24	I	13	28.50	226	1	3	15		245
25 26 27	I	1 1 1	32.30	220		3	15	30.32	10.6
26	1	T	36.2			w min	15	34.39	1017
27	1	1.1	40.1	227	7	1	I	38.47	AND RESIDENCE OF THE PARTY OF T
28	5	I I	43.5	8 228	3		15	42.55	248
129	1	I	3 47.4	7 229	_	-	3 15		
130		II	3 51.3	6 1 22			3 1 1		249
-	-		To be		-			STATE OF THE PARTY	

A Table of the Suns Right Ascension in Time.

1	II	.7	Com	1000	1000	1	1	Com	1
3.0	H	H	parts	dff.	-	9	VS	paris	
1 2 3 4	3344	16	55·21 59·35 3·46	251 252 250 253		6666	18 18 18	4.22 8.43 13.05	262
5 6 7 8	4 4 4 4	16	7.58 12.11 16.25 20.39 24.53	253 254 255 255	000	9999	18 18 18	17.27 21.48 26.09 30.30 34.51	261
9 10 11 12	4 4 4	16 16 16 16	29.09 33.24 37.41 41.57	256 256 257 257 257	121	6	18 18 18	39.11 43.31 47.51 52. 1	260 250 260 260
13 14 15 16	4 4 4 4	16 16 16 16	46.15 50.32 54.51 59.09	258 258 259 259		7	18 19 19 19	56.31 0.50 5.09 9.27	259 259 258 258
17 18 19 20 21	5 5 5 5 5	17 17 17 17	3 23 7 48 12.03 16.28 20.48	250 260 260 260	300	777	19	13.45 18.02 22.19 26.35 30.51	257 257 256 256
22 23 24 25 26	5 5 5 5	17 17 17 17	25.09 29:30 33.51 38.12	250 261 261 261	200	7 7 7 7	9 9	35.06 39.21 43.35 47.48	255 255 254 253
27 28 29	5 5 5 5	17 17 17	42.33 46.55 51.17 55.38	261 262 262 262	227	7 1 2 2 8 2	9900	52.01 56.13 00.25 4.36	253 252 252 251
1 30	61	181	0.00	252	Sec.	8 2	0	8.45	250

A Table of the Sins Right Askension in Time.

_			13.75	1	0.00	m	20	Com	15 100
1-1	EL!	1	Com. I			m	×	Com.	5
1	25/25		1000	di.F.		133		parts	diff
1	H	H	parcs			H	H	Sept 1	
1-1	8	20		249		IQ	22	12.13	228
2	8	20	12.55	248		IO	22	16.01	228
A STATE OF THE PARTY OF THE PAR	8	20	17.04	248		10	22	19.49	227
3	8	20	21.12	247		10	22	23.36	227
4	8	20,	2 .20	246	3 75	Lo	22	27.23	226
5	8	20	29:27	Name of	200		22	31.09	026
6	8	20	33.33	245	2023	10	22	34.55	226
8	8	20	37.38	214	1	10	22	38.40	225
THE RESERVE	8	20	41.42	214	5000	IC	22	42.25	225
19	8.	20	45.46	244	150	10	22	46.10	224
IO	8		49.50	2+3		-	22	49.54	30000
11	-8	20	53.53	212		10	22	53.33	224
12	20 (10 75)	20	57.55	240	12.	IO	22	57.21	223
13	9	21	1.55			II	23	1.24	223
14	9	21	5.55	239	30	11	23	4.17	223
15	No. of Concession, Name of Street, or other party of the Concession, Name of Street, or other pa	-	9.54	239	100	īI	23	8.29	222
16	9	21	13.53	238		II	23	12.11	222
17	9	21	17.51	237	223	II	23	15.13	222.
	9		21.48	237		II	23	19.34	221
19	9	21	25.45	236	3	11.	23	23.15	22 L
20	9	2000	29.41	235	1	11	23	26.56	221
21	9	21	33.36	234	-17 3	11	23		221
22	9	21	37-30	234	100	11	23	30.37	221
23	9	21	41.24	233	70	II.	23	34.18	221
24	9	21	45.17	233	18.3		23		220
25	-9	21	49.10	232	723	11		41.39	220
25	9	21	53.02	119 30	130	II.	23	45.19	220.
27	19	21	56.53	231	1000	11	23	48.59	220
28,	10	22	0.44	231	17-14	11		52.39	220
29	100000	22	4.34	230	-	12	23	00.00	220
3.0	1	122	1 8.24	1230		-	1 -4	00100	-

moß	31	Names of the Stars	Longitude	Latitude
The State of the Land of the Land	30	- Attended	9 , "	0 / 1/
the .	2	In the head of Andr.	V 09.52.09	25.42.10 N
of ars.		Inher Grdle	¥ 25.54.06	25.58.30 N
Tea	2	In her Souther foot	0 09.44.50	
of 1	3	In Aquar. Formahout In his right shoulder	29.19.49	20.59.40 S 10.42.! 5 N
A STATE OF THE STA	MARKET STATE	In his left shoulder -	18.56.33	08.12.15 N
Declination uce for every	5	THE RESERVE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN	£ 11.56.33	04.50.15 N
1 6		Bright * in A qui.vul.	Vy 27.15.23	29.20.40 N
eclin.		I. Horn V	° 23.42.33	07.08.00 N 08.28.30 N
font, Dei		2. Horn of 1	Y 29.23.33	
ger,	3	Bright X in Aries -	II 17.23.08	09.56.30 N 22.51.45 N
20	Name and Address of	In his right shoulder	Л 25.28.28	21.25.40 N
Afce the	1	Boores Arcturus	≈ 19.47.32	31.00.40 N
btl		In his left shoulder	14.13.33	49.51.40 N
gbt		Cancer, Præsepe	1 02.51.29	01.14.30 N
Rie,	A 100 00 00 00 00 00 00 00 00 00 00 00 00	The Southren Afell.	04.12.59	03.08.30 N 00.03.30 N
ides,	1000	The G. dog & Sirius	90 09.47.53	
16	2	The L.do. * Precion	20 21.23.23	15.57.10 S
Latit	3	Capric. the fore horn	V\$ 29.27.32	07 03.11 N
Latiu	3	the lover horn	to the color contribution and the color of the color	04.42.10 N
	3	former in the tay!	m 17.23.33	02.27.50 S
nd nd	3	Caf. br. * i'th' chair	000.38.53	51.17.50 N
ngitudes, Stars for	3	Br g. X in her Breaft	0 03.22.33	46.36.50 N
Lon S	3	In the bend of her hip	0 09.02.33	48.47.50 N
e la	3	In her knee Cepheus in his G'rdle	0 13.26.03	46.23.50 N 71.08.30 N
of the Longitudes, Notable Stars for	2	Cere the Whal's jaw	000.52.23	12.35.50 S
	-3	In the belty North -	¥ 17.31.21	And the second s
ole	3	The Nor. in the Tay!	X 25.29.53	09.58.10 \$
Table		The Southren	X 28.02.53	
7	2	Nor.Cr. the bright *	116.07.45.30	44.25.60 N

·a/c ind	r.as. in ti	Declinati.	di.r.a.	di.d. 10y
0,7	h ' !'	D / '/	h' "	17
57.58.44	23.51.55	27.20.38 N	0.31	03.21 A
12.54.44	0.51.39	33.56. 4 N	0.33	03.18 A
26.01.03	1.44.16	40.46. ON	0.35	03.18 A
39 54.00	22.39.36	31.14.10 S	0.34	03.00 S
27.20.55	21.49.21	1.49.32.5	0.22	02.54 8
18.39.42	21.14.39	6.53.58 S	0.32	101.36 S
07.30.42	20.30.03	10.37.32 S	0.30	01.5: 5
93.47.23	19.35. 9	8. 3.56 N	0.14	o1.18 A
24.00.36	1.36. 2	17.42.12 N	0.33	03.07 A
24.13.39	1.36.55	19.12.42 N	0.33	02.51 A
27.18.58.	1.49.16	21.55.30 N	0.34	03.00 A
73.09.08	4.52.36	45.38.00 N	0.33	01.00 A
84.06.06	5.36.24	44.50.40 N	0.47	00.25 A
10.18.50	14. 1.15	20.53.55 N	0.28	02.57 S
14.50.09	14.19.21	39.10.35 N	0.25	02.41 5
25.28.26	8.21.54	20.46.52 N	03.5	01.54 9
26.08.00	8.24.32	22.35.00 N	0.36	32.00 S
26.36.32	8.26.26	19.19.00 N	0.35	-01.00 S
97.43.42	6.30.55	16.17.18 S	0.27	00.21 A
10.38.32	7.22.34	6. 1.36 N	0.32	01.12 \$
00.07.34	20. 0.30	13.25.18 S	0.34	01.36 S
00.50.05	20. 3.20	15.41.26 S	0.35	01.42 \$
20.39.17	21.22.37	17.59.33 S	0.34	02.36 S
22 26.30	21.29.46	17.27.46 S	0.34	02.42 5
57-59-33	23.51.58	57.25.28 N	0.30	03.24 A
5.39.36	0.22.38	54.48.28 N	0.33	03.24 A
9.28.24	0.37.54	59. 0.48 N	0.34	03.24 A
16.17.00	1.05. 8	58.33.46 N	0.38	102.18 A
21. 2.06	21.24. 8	69.11.56 N	0.39	02.36 A
41.23.07	2.45.32	2.48.50 N	0.30	02.30 A
23-57.00	1.35.48	11.51.02 5	0.30	03.06 S
0.48.35	0. 3.14	10.31.50 S	0.31	03.30 S
6.59 44	0.27.59	19.42.32 5	0.31	03.24 \$
30.26.00	15.21.44	27.49.32 N	1.25	02.06 S
中国共产业6	164.65.81	A - FREE E R. A	KI SIREGIS	1 5 5 mar
THE REPORT OF THE PARTY OF THE	WIND CO. THE RESIDENCE OF THE PERSON NAMED IN	Marin Service Control of the Control	MARKET MA	Selection de la Company de la

Ma	Names of the Star,	Longitude	Latitud:
1.26		0 , 11	0.1.1
3	In the S vans bill -	V3 26.48.37	49.03.001
3		₩ 20.28.37	57.10.201
3		¥ 00.58.18	59.57.201
		11.57.53	64.25.501
3	In her l Wr	23.14.22	49.27.00
32		23.29.13	75.02.10 1
2	Gemin's head of Ca Gem. head of Pollux	The second secon	06.38.30 1
2	In the bright foot		06.48.00
3	Hercules his head -		37.22.15 1
3	In his right foulde	100000	42.47.15
100,000,000	In his left shoulder	2 10.20.13	47.46.151
I	Hydra's Heart	22.19.43	22.23.50
-	Lyons Heart	16 25.31.48	00.26.20 1
C. C. September	Lyons Tyal ——	-	12.16.20 1
	Ly. br. in his cref		08.45.40 1
2	Ly.i'th' top of's neck	05.50.35	14.18.30 1
	Ly. below in his ne. k		01.50.10 1
	In the back o'th hare		43.55.50
2	No theren Ballance-	114.55.23	08.33.30
	Southern Ballance-		00.25.10
I	Bright * 'ita' harp	V3-10-19-33	61.47.00 1
3	I'th' head of Ophius	£ 18.00.13	35 56.151
7000	In his left hand —	-	17.18.201
3	In his right knee	£ 13.34.13	07.17.20
3	In his left knee— In his right shoulder	220 55 13	28.00.20
4	Ori.i'ch' top of his h.	3E 19.17.52	13.25.30
2	Orions right should	71 24.19.41	16.06.15
-	In his let shoulder -	-	16.52.30
I	Orions Foot Riged -	II. 12.19.03	31.10.10
	Pirst of his belt -	MALES SEE STREET, STRE	23.36.40
2.	second of his belt	11.18.55.48	24.34.10
		THE RESERVE OF THE PARTY OF THE	BEAT STEELS

Cind was int I Doclinati I diva id	l.d. 10%.
	CONTRACTOR OF THE PARTY OF THE
	1 1/6
37.30	1.05 A
	1.48 A
	02.03 A
	01.24 A
	02.06 A
	00.12 5
	01 05 5
	01.12 \$
	00.12 5
	co.18 S
14.05.35 16.16.26 22.15.40 N 0.25	01.00 \$
55.26.19 17.01.45 25.17.21 N 0.21	00.48 \$
37.57.22 09.11.49 07.16.30 S 0.30	02.30 A
47.47.45 09.51-11 13.30.58 N 0.33	02.51 5
73.09.45 11.32.39 16.20.52 N 0.31	03.24 5
50.31.41 10.02.07 21.25.48 N 0.34	02.54 5
64.14.55 10.57.00 22.14.32 N 0.35	03.24 5
49.41.16 09.58.45 24.59.42 N 0.35	02.54 \$
47.30.16 09.50.01 18.19.09 N 0.35	c2.48 3
078.38.80 05.14.34 21.00.13 S 0.26	00.42 5
24.59.02 14.59.56 08.09.58 S C.32	00.24 A
218.21.44 14.33.27 14.39.54 S 0.33	00.42 A
276.29.32 18.25.58 38.31.28 N 0.20	00.24 A
260.01.26 17.20.06 12.51-46 N 0.28	00.42 5
239.31.01 15.58.04 02.19.16 S 0.33	01.48 A
252.55.46 16.51.43 15.14.30 S 0.30	01.30 A
244.55.01 16.19.40 19.50.30 8 0.33	01.00 A
261.54.02 17.27.36 04.43.46 N 0.33	00.30 S
079.24.45 05.17.39 09.42.14 N 0.33	00,42 A
084.25.40 05.37.47 07.17.32 N 0.33	00.24 A
077.00.52 05.08.06 06.01.25 N 0.31	00.45 A
074.47.44 04.59.18 08.35.36 \$ 0.30	00.57 S
	CONTRACTOR OF STREET
07.074.04 03.13.30 00,34.14 3 0.41	00.42 3
078.54.24 05.15.38 08.34.14 S 0.31 079.57.27 05.19.51 01.25.58 S 1.31	00.42 S

CHA	NAME AND POST OF THE OWNER, THE O	Marie Contract Contra	-
mol	Names of the Stars	Longitude	Latitude
THE RESERVE OF THE PARTY OF THE	3	1 9 1 "	0 / //
the	2 The 3d in Orions belt	T120.06.03	25:21:10 \$
7.7.0	3 Pegafus in 1 mouth.	1 = 27.28.17	22 06 20 N
Tear Tear	2 In his thigh, sheat—	¥24.57.13	31 08 20 N
	2 Bright in the wing	Mark Committee of the C	1924 50 N
nation of very Ten	2 Br. * i'th lower w.	Y04.43.13	21:37:10N
ion y	2'Perseus in his side	027.17.01	30:05:50N
inati every	3,Ciput Medula-	021.49.03	22 22 40N
200 00	4 Southern lish occiput		07:17:00 N
Dec	3 Bright * bet wixt *	Y13.53.05	09.04 00 8
CONTRACTOR AND ADDRESS OF THE PARTY OF THE P	4 Sagittar. in his head	V309.05.33	01 45:10N
enc.	I Scorpions's heart—	205.18.33	04 25:30 3
Her m	2 In his forehead north	11(28.40.03	01 05:55N
Ascenfion, ne Differenc	3 In his forehe. middle	11128.03.13	
20	3 In his forehead South	17(18.28.53	05.20.103
th th	2 Serpents neck br. *	117.33.53	25.33.50 N
Rigi	I ulls eye South	1105.18.36	05.30.50 5
2 2	2 Bulls Northern eye-	1103.59.06	02.36.103
CONTRACTOR OF THE PARTY OF THE	3 The low- of Hiades	TOI.17.03	05.46.20 S
it ndes	2 His Northern horn-	TL18.05.53	05.20.40 8
	3 His Southern horn -	1120.10.53	02.12.208
Cat	3 Brightest of the 7* I Virgin Spike	020.37.42	02.50.20 V
1 8	I Virgin Spike	19.22.53	OI.50.20 S
Longitudes, I Starsfor Anne	3 Br. * in her Girdle	£07.01.53	08.40.30 V
for	3 Vindimiatrix —	~05.28.23	16.15.00 N
2 2	2 Great Bears shoulder	1110.41.321	49.40.10 N
000	2 Next under it	214.51.03	45.05.10 N
	2 Br. * hinder thigh	L25.57.33	47.08.40N
the able	3 Br. * on his ba k	El 25.33.03	The Personal Property and Publisher St.
Not	2 n his Rump Aliot -	04.19.33	54-17-45 N
13	2 Middle in the Tayl -	11.04.59	56.21.10N
ble	2 Last in the Tayl —	11/22.20.13	the second second second second second
Ta ca	2 The Polc Star	2 1 1 1 1 1 1 1 1 1	5.59.50.
4 Table	2 Little Dears shoulder	(08.28.12	72.48.40N
1	1		
			3543 A ST. A. S.

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r.asc.ind.	rasint.	Declinati.	di.r.a.	d.d 10y.
.0 / "	h ' "	2 1 1	h/"	1
081.03.12	05.24.13	02.09.20 5	030	00,30 \$
222.12.00	21.28.48	09.27.02 N	0.31	02.36 A
342.06.12	22.48.25	25.22.09 N	0.29	03.09 A
342.13.03	22.18.52	13.29.29 N	0.30	03.09 A
350.12.12	23.56.49	13.25.03 N	0.20	03.214
015.04.12	03.00.19	48.39.12 N	0.35	02.35 A
041.53.18	02.47.33	39-41-30 N	0.39	02.30 4
345.08.40	23.00.35	01.33.26 N	0.34	03.18 4
025.22.38	01.45.30	01.13.00 N	0.32	03 00 4
275.47.37	18.39.10	22.24.24 5	0.47	00.48 8
242.29.04	16.09.56	25.36.42 5	0.37	01.36 A
236.40.51	15.46.13	18.49.48 5	0.35	01.54 A
235.19.35	15.43.06	21.37.40 5	0.35	02.00 A
223.48.31	15.39.54	25.05.42 5	0.39	02.05 A
320.90.00	15.28.36	07.20.24 N	0.30	02.06 \$
064.24.16	04.17.37	15.50.10 N	0.34	01.30 A
062.26.48	04.09.37	18.33.52 N	0.34	01.12 A
060.22.35	04.01.30	14.49.02 N	0.34	01.42 A
076.31.54	05.06.07	28.20.38 N	C.39	00.48 A
079.37.18	05.18.29	20.57.22 N	0.36	00.12 A
052.09.49	03.28.39	23.03.36 N	0.35	02.05 A
197.05.57	13.08.28	09.27.00 \$	0.31	03.15 A
189.54.46	12.39.39	05.09.42 N	0.31	05.24 5
191.36.56	12.46.27	12.41.34 N	0.31	03.18 5
160.56.52	10.43.47	63.28.26 N	0.40	03.12 5
160.32.55	10.42.11	58.05.25 N	0.39	03.12 S
174.06.58	11.36.27	55.30.06 N	0.33	103.12 5
179.12.01	11.39.28	58.47.06 V	0.32	05.12 8
189.54.08	12.39.36	57:43.24 N	NAME AND ADDRESS OF THE OWNER, OWNER, TAXABLE PARTY.	03.18 5
197.42.26	13.10.50	56.37.16 N	0.25	103.12 5
203.41.25	13.34.46	50.57.08 N	0.24	03.06 S
099,14.10	00.36.57	87.36.03 N	0.46	92.24 A
222.40.05	14.50.40	75.38.00 N	10,01	00.15 A
3, 2, 6,0	8.0	1.5	1.0.1	10001
0,0 12 10.	104	Control of the Contro	2.1.2	N 0008
12,12, 2.0		8 .01 10.	3.0.2	-1.0000
DE STE	0,8	01.00 0	10, 8	00001
A CONTRACTOR OF THE PARTY OF TH	THE RESERVE OF THE PERSON	the windows the control of the Street Control of the Control of th	THE PARTY NAMED IN COLUMN	man material and a second

1721	'I farthing	2 farthings	1 3 fart bings
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	li. sh.d. q.	li.fh. d. q.	. fh. d. q.
	11. 112.01.4.		3
1.1	I	1.0	1.2
2	2	1.2	2.1
3	1.0	2.0	3.0
4	1.1	2.2	3.3
56	1.2	3.0	4.2
The state of the s	1.3	3.2	5.1
7 8	2.0	4.0	6.0
9	2.1	4.2	. 6.3
10	2.2	5.0	7.2
20	5.0	10.0	1. 3.0
30	7.2	1. 3.0	1.10. 2
40	10.0	1. 8.0	2. 6.0
50	1. 0.2	2. 1.0	3. 1.2
60	1. 0.3	2. 6.0	3. 9.0
70	I. 5.2	2.11.0	4. 4.2
80	1. 8.0	3. 4.0	5. 7.2
90	1.10.2	3. 9.0	The state of the s
100	2. 1.0	4. 2.0	6. 3.0
200	4. 2.0	8. 4.0	12. 6.0
300	6. 3.0	12. 6.0	18. 9.0
400	8. 4.0	16. 8.0	1.11. 3.0
500	10. 5.0	I. 5. 0.0	1.17. 6.0
600	12. 6.0	1. 9. 2.0	2. 3. 9.0
700	16. 8.0	1.13. 4.0	2.10. 0.0
900	18. 9.0	1.17. 6.0	2.16. 3.0
1000	I. 0.10.0	2. 1. 8.0	3. 2. 6.0
2000	2. 1. 8.0	4. 3. 4.0	6. 5. 0.0
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10			Convenience Contractor (Contractor)	20
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60	2. 5.0	2.10. 0	2.15. 0	3. 0. 0
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80	3.0.0	3. 6. 8	3.13. 4	4. 0. 0
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400	15. 0. 0	16.13. 4	18. 6. 8	20. 0. 0
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700	22.10. 0	25. 0. 0	17.10. 0	30. 0. 0
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Forreign Weights and Measures, Carefully compared with the English.

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4-1	POE	pa co	The verd
	rts	English Footo Inc. and parts of an i	olu
TO THE PARTY OF	Jish F	5 C B	Pour upois parts.
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France.	4	22 1	100
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4.0 .0 .0 .04.4	153	-02.1	199
Paris, the Royal Foot	1.068	1.00.8	0.93
Lyon Ell	3.976	3.11.7	1.09
Boloyn Ell-	2. 76	2.00.8	0.89
			155
The 17 Provinces.			
A CONTRACTOR OF THE PARTY OF TH	100	district 133	1
Amfterdam Foot	042	OTT	0.00
Ell	2-260	2.03.2	0.93
Antwerp Foot-	.946		0.48
Ell	2.273	2.03.3	THE RESERVE OF THE PARTY OF THE
Brill Foot	1.103	F.01.2	GOR
Dort Foot	1.184	1.02.2	STORE !
Rynland or Leyden Foot-	1.033	1.00.4	0.96
Ell	2.260	2.03.1	13 200 2
Lorain Foot	.958	.11.4	0.98
Mechalin Foot	.919	.II.o	0.98
Middleburg Foot -	1991	1.11.9	0.98

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	1 -	-	1
Germany.	Thou	-	Aver.
WE TO I LET I WAS TO SEE	parts	F.I.p.	100.р.
Strasbourge Foot	.92	0.11.0	0.93
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7	.94	.II.4	5193
Foot	1-4-123	To Supple to	Figure 1
Ell	1.82	51 7 00	PARTY -
Hambrough Ell	1.90	V.V	10000
Lipfig Ell	2.260		0.95
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Noremburg	1.005		03:63
C.o. Ell	2.227	2. 3.3	0.94
Bavaria -	.954	0.11.4	201704
Vienna -	1.053	1.00.6	TO A
Spain and Portu.	100,25	1	5.83
Spanish Palm, or the	-	- 35 15 35	SSC C
1 4 OL F 1 500 X	.751	0.09.0	0.99
Palm of Caftile.	and her	MONTH ON	0.92
The Spanish Ware or	P (62)	and Holes	BUREST
4026 1 0008 12 05. V	3.004	3.0000	Mary States
Rod, (four Palms)	Low	FAIR	\$2 WEST
Their Foot is 1 of	-		A MARIE .
- S. OO. E 3 - S	1.001	1.00.0	2 210,000
the Vare	0		mul.
Gibralter Vare	2.750	2.09.0	1.06
Toledo Foot-	2.760	2.09.1	1.03
Vare	2.685	0:10.7	1.00
B. Charles de marie de marier	2.005	2.08.2	- 1
Italy.	1 200		ARTON TO THE PERSON NAMED IN COLUMN
Roman Foot, on the	.957	0.11.6	2 00
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Of Statilius-	.972	0.11.7	mg 2 1 1
Roman Palm, for build-	And the second		
ing, whereof to make	-732	0.08.8	100
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	Thou.	F 1 1	Aver.
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1 7770	1.204	1.20.4	1.27
Bononia Foot	2.147	2.01.7	odienis i
Dorch wheren (100)	THE REAL PROPERTY.	42.4	enotice !
Perch, sphereof 500.	12.040	12.00-5	Frankfi
to a Mile	2		MANUE
Florence Brace or Ell-	1.913	1.11.0	123
Naples Palm	.861	0.09.6	1.43
Brace	2.100	2. 1.2	pridmali .
Canna-	6.880	6.10.5	Topid !
Genua Palm	.830	.09.6	1.42
Mantova Foot	1.569	1.06.8	1 43
Milan Calamus Perma Cubit	6.544	6.06.5	1.40
Venice Poot	1.866	1.10.4	1.43
Other Places.	1.152	1.01.9	1
COLUMN TO THE REPORT OF THE PARTY OF THE PAR	Contract of	S DEST	grade
Dantzick Foot	•944	0.11.3	1.19
Copenhagen Foot-	1.903	1,10.8	4
Prague (in Bohemia)	.965	.11.6	0.94
-0.000 BOOK	1.026	1.00.2	1.06
Foot-		THE PROPERTY	10 1000
Riga Foot-	1.831	1.09.9	1 12051
China Cubic	1.016	1.00.2	14 30
Turin Foot	1.052	1.00.7	A 1011
Cairo Cubit-	1.824	1,09.9	1.61
Turkish Pike, at Con-	3.197	3.02.3	obstor
Tenterania medan con-	2.200	I OO A	1000
fantin, the greater	1 5.05	1.02.4	0.86
The Greek Foot	1.007	1.00.1	· Sand
The Universal measure.	3.267	3. 3.2	HE HOLL
The state of the s	1000		The last of
THE PERSON NAMED IN COLUMN	AND DESCRIPTIONS	1000	Ch. Ch.

A Pendulum of the just length whereof will vibrate 60 times in a Minute.

To Guage a Cask which is not full.

A Table for Guaging of Wine Casks which are not full.

		-	1	1000	St. J. C.L.	To de	Variation of		
G:	parts	G.	- 50 Car Land	G.	parts	G.	parts	G.	parts
0	000	13	2630	26	4330	39	5913	52	7072
112	295	100	2703	53	4400		5976	800	77,8
1	602	14	2775 2847	27	4462	40	6040	53	7829
	720	01	2918	-0	4542	1	6094	100	7909
2	830	15	2986	28	4585	41	6158	54	7990
3	935	16	3056	29	4726	10	6223	9.8	8072
	1038		3123		4766	42	6353	55	8154
4	1138	17	3189	30	4826	43	6418	56	8236
	1235	01	3255	1	4835	13	6483	30	8404
5	1339	18	3321	31	4948	44	6548	57	8491
6	1420	Tio	3387	18	5000	6-11	6613	4-3	8580
	1596	19	3452	32	5057	45	6679	58	8661
7	1681	20	3582	22	5115	16	6745	-	8765
1 3	1764	22	3647	33	5234	46	6911	59	8862
8	1846	21	3712	34	5294	47	6944	60	8962
8.	1928	40	3777	01	5354	2	7012	bbsi	9065
2	2010	22	3842	35	5415	48	7082	61	9170
IO	2091	25	3906	821	5476	を	7153	300	9398
10	2242	23	3960	36	5535	49	7225	62	9530
IF	2328	24	4087	27	5600	12	7297	ocd.	9705
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2	200	216	233	250	267	283	16.5			
3 4	300	317	333	350	367	383	1.7			
4	400	417	433	450	467	484	1.7			
5	500	517	534	551	567	584	1.7			
ST. PRINTERS TO THE	601	618	634	651	668	685	1.7			
7.8	701 802	819	735	752 853	769	887	1.7			
9.	903	920	937	954	971	988	1.7			
10	1005	1022	1039	1056	1082	1090	No. 10772 1171			
11	1107	1124	1141	1158	1185	1192	1.7			
12	1209	1226	1243	1260	1287	1294	1.7			
13	1311	1328	1345	1367	1385	1397	1.7			
14	1414	1431	1448	1468	1483	1500	1.7			
15	1517	1534	1552	1569	1586	1604	1.7			
16	1621	1638	1656	1673	1690	1708	17.5			
17	1725	1743	1760	1778	1795	1813	17.5			
18	1835	1848	1865	1883	1900	1918	17.5			
19	1936	1953	1971	1988	2006	2024	17.5			
20	2042	2059	2077	2098	2113	2131	17.5			
21	2148	2166	2184	2202	2220	2238	1.8			
22	2256	2274	2292	2310	2328	2346	1.8			
23	2364	2382	2400	2419	2437	2455	1.8			
24	2473	2491	2510	2528	2545	2565	1.8			
25	2583	2501	2620	2638	2657	2675	1.3			
26	2694	2712	2731	2750	2768	2787	1.8			
27	2806	2824	2843	2862	2880	2899	1.8			
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43 44 45 46 47	4771 4909 5050 5192 5337	4794 4932 5073 5216 5362	4817 4956 5097 5040 5386	4840 4970 5120 5265 5411	4863 4002 5144 5289 5436	4886 4026 5168 5313 5461	23 23 23 24 25			
48 49 50 51 52	5485 5636 5790 5948 6108	5510 5662 5816 5974 6135	5585 5687 5842 6001 6162	5560 5713 5868 6027 6190	5586 5739 5895 6054 6217	5764 5921 6081 6245	25 26 26 26 27			
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A Table of Meridional Parts. 60 7545 7579 7612 7646 7650 7714 34 61 7748 7793 7817 7852 7887 7923 35 62 7958 7994 8029 8665 8402 8138 36 63 8175 8211 8248 8286 8323 8361 37 64 8399 8437 8475 8514 8553 8592 38 65 8631 8671 8710 8750 8791 8831 39 66 8372 8913 8960 8996 9038 9080 41 67 9123 9166 9224 9252 9296 9340 43 68 9384 9429 9474 9517 9565 9611 45 69 9657 9704 9751 9798 9846 9899 47 70 9943 9993 10041 10091 10141 10192 49 71 10242 10294 10346 10398 10450 10504 52 72 10558 10612 10656 10722 10777 10834 54 73 10890 10948 11005 11064 11123 11182 57 74 11242 11303 11365 11427 11989 11553 61 75 11617 11682 11747 11814 11891 11948 67 76 12016 12086 12156 12227 12799 12371 70 77 12445 12519 12595 12672 12749 12828 74 78 12907 12988 13070 13153 13237 13322 81 79 13409 13497 13586 13677 13765 13863 88 80 13958 14055 14153 14253 14355 14459 97	Deg	0 1	10	20	1 30	1 40	1 50	1 D	
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81 14565 14672 14782 14893 15007 15123 107 82 15242 15363 15487 15613 15242 15874 121 83 16009 16148 16289 16435 16584 16737 139 84 16894 17056 17222 17394 17570 17752 162 85 17940 18135 18336 18548 18761 18986 86 19220 19464 19719 19986 20266 2060 87 20870 21197 21545 21915 22310 22985 88 23193 23692 24238 24842 25517 26282	61 62 63 64 65 66 70 77 77 77 77 79 80 8 83 84 85 6 77	7748 7958 8175 8399 8631 8372 9123 9384 9557 9943 10242 10558 10890 11242 11517 12016 12445 12907 13958 14565 15242 16009 16894 17940 19220 20870	7793 7994 8211 8437 8671 8913 9166 9429 9704 9993 10294 10612 10948 11682 12086 12519 12988 13197 14055 14072 15363 16148 17056 18135 19464 21197	7817 8029 8248 8475 8710 8960 9224 9474 9751 10041 10346 10636 11005 11365 11747 12156 12595 13070 13586 14153 14782 15487 16289 17222 18336 19719 21545	7852 8065 8286 8286 8514 8750 8996 9252 9517 9798 10091 10398 10722 11064 11427 11814 12227 12672 13153 13677 14253 14893 15613 15613 15613 16435 17394 18548 19986 21915	7887 8402 8323 8553 8791 9038 9296 9565 9846 10141 10450 10777 11123 11989 12749 13237 13765 14355 15007 15242 16584 17570 18761 20266 22310	7923 8138 8361 8361 8592 8831 9080 9340 9611 9899 10192 10504 10834 11182 11553 11948 12371 12828 13322 13863 14459 15123 15737 17752 18986 2060 22985	35 36 37 38 39 43 43 43 44 45 47 49 54 57 67 70 74 88 97 71 121 139	

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