Property of Engineer's Office
City Hall, San Diego, Cal.

12

TRANSIT.

F.B. 53

53

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City Hall, San Diego, Cal.

MICROFILMED
DEC 4 1964

Table showing the difference of latitude and departure in running 80 chains at any course from 1 to 60 minutes.

Minutes.	Lks.	Minutes.	Lks.	Minutes.	Lks.
1	2⅓	21	49	41	95⅔
2	4⅔	22	51⅓	42	98
3	7	23	53⅔	43	100⅓
4	9⅓	24	56	44	102⅔
5	11⅔	25	58⅓	45	105
6	14	26	60⅔	46	107⅓
7	16⅓	27	63	47	109⅔
8	18⅔	28	65⅓	48	112
9	21	29	67⅔	49	114⅓
10	23⅓	30	70	50	116⅔
11	25⅔	31	72⅓	51	119
12	28	32	74⅔	52	121⅓
13	30⅓	33	77	53	123⅔
14	32⅔	34	79⅓	54	126
15	35	35	81⅔	55	128⅓
16	37⅓	36	84	56	130⅓
17	39⅔	37	86⅓	57	133
18	42	38	88⅔	58	135⅓
19	44⅓	39	91	59	137⅔
20	46⅔	40	93⅓	60	140

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Table for Running on Slopes.

In the following table the first column shows the angle, the second, the number of links to be added to a chain on the slopes, to make one chain, horizontal measurement.

Angle.	Cor. in links	Angle.	Cor. in links.	Angle.	Cor. in links.	Angle.	Cor. in links
°		°		°		°	
4	0·24	11	1·88	18	5·14	25	10·54
5	0 38	12	2·24	19	5 76	26	11·26
6	0 55	13	2·63	20	6·42	27	12 24
7	0·76	14	3·06	21	7·11	28	13 37
8	0·98	15	3·53	22	7·85	29	14 34
9	1 24	16	4·02	23	8·64	30	15·47
10	1·55	17	4·56	24	9·47	35	22 07

53

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Sta | Course

10
9
8
7
6
5
4
3
2
1
0

N 67° 50' W

No Good

262
set flat Stake cor of 261 & 262
Scaf Stake cor of Blk 17
.8' off line

+20
13
+88
12
11

found cor 1.5' back cor .8 off line

10
+33.2
9
8
7
+60
6
5
4
3
2
1
0

S 22° 10' W

Flat Stake set for cor of 273

line

No Good

261
273
Plg and Scaf Stake
262
272

Sta | Course

+20
13
12
11

Stake

Survey of Pueblo Lot 332

Sta.	Course		
		No Good	
+66.7 4			
3			
2	N 67° 58' W		
1			
0 +66.7 4	90° 30' left		set Plot Stake
3			
2	N 22° 40' E		
1			
7 +40	89° 24' left		set Plug 1x2" and witness Stake
6 +61			Plug and 2x2" witness stake old point
5			
4		No Good	
3			
2	S 67° 55' E		
1			
0			Plug and 2x2" witness Stake

Beginning at the East cor of Lot 316 Fire sights to East cor of 317

Survey of S.W. 1/2 of Pueblo lot 316 Sept 1 1891

Sta | Course | Hamlin & Party

+60 | 89° 24' Left | Δ old Stake pt of begining

6

5

4

3

2

1

S 67° 50' W

No Good

+30 | 90° 36' Left | Δ flat Stake
Scarf stake 8.4' N West of this point marked 338

3

2

1

S 22° 40' E

+60 | 89° 24' Left | Δ flat Stake

6

5

4

3

2

1

N 67° 50' W

+30 | 90° 36' Left | Δ flat Stake

3

2

1

N 22° 40' E

No Good

0 | Δ old Stake

Begining at old stake South cor of 316 Fore sight on East cor 316 old Stake

Survey of unnumbered lot Pueblo lying East of Lot 1344 and South East of Cemetery.

Sta Course

11

+80

10

+33

9

8

+65

7

6

5

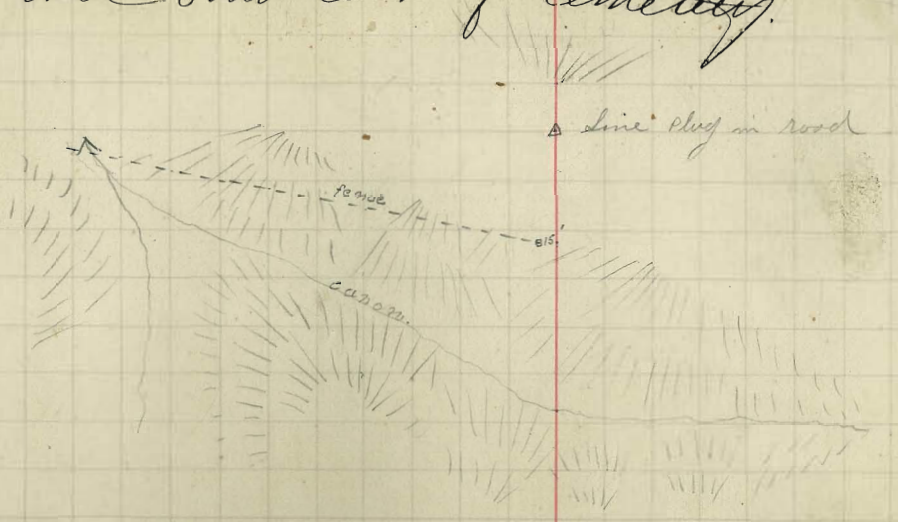
4

3

2

1

0



S 16° 30' E

(S 30° 35' E Mag)

post

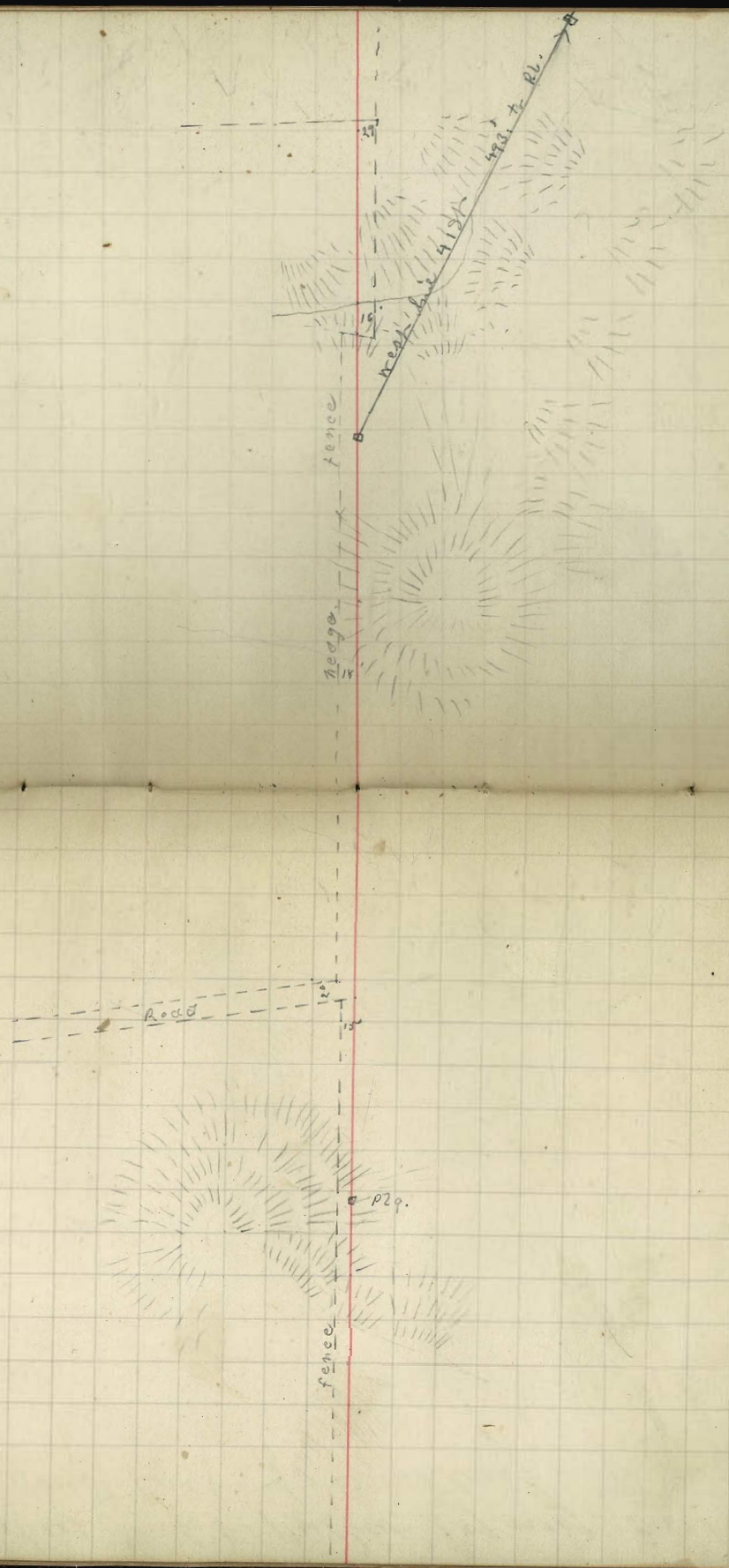
cemetery fence

Found 1 x 1" plug set in ground at the S.E. cor of Mt Hope cemetery, near the fence post. Fore sight to a post about 1 mile South 17° East along Pueblo Boundary, (cemetery fence bears to west of Boundary line

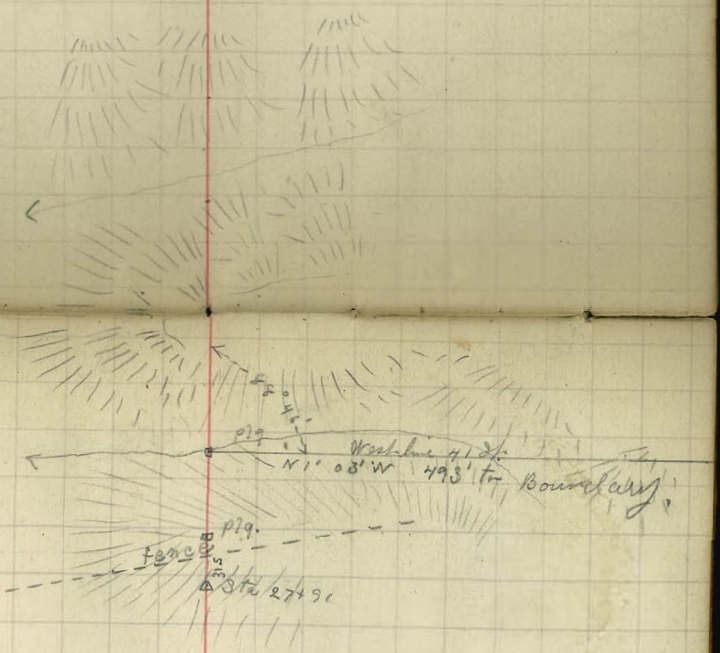
fence

Cemetery

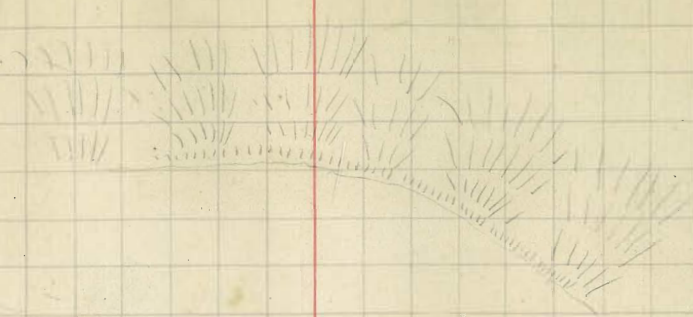
Sta	Course
26	
25	
+56	
24	
23	
+77	
22	
21	
20	
19	
18	
17	
16	
15	
14	
+81	
13	
12	



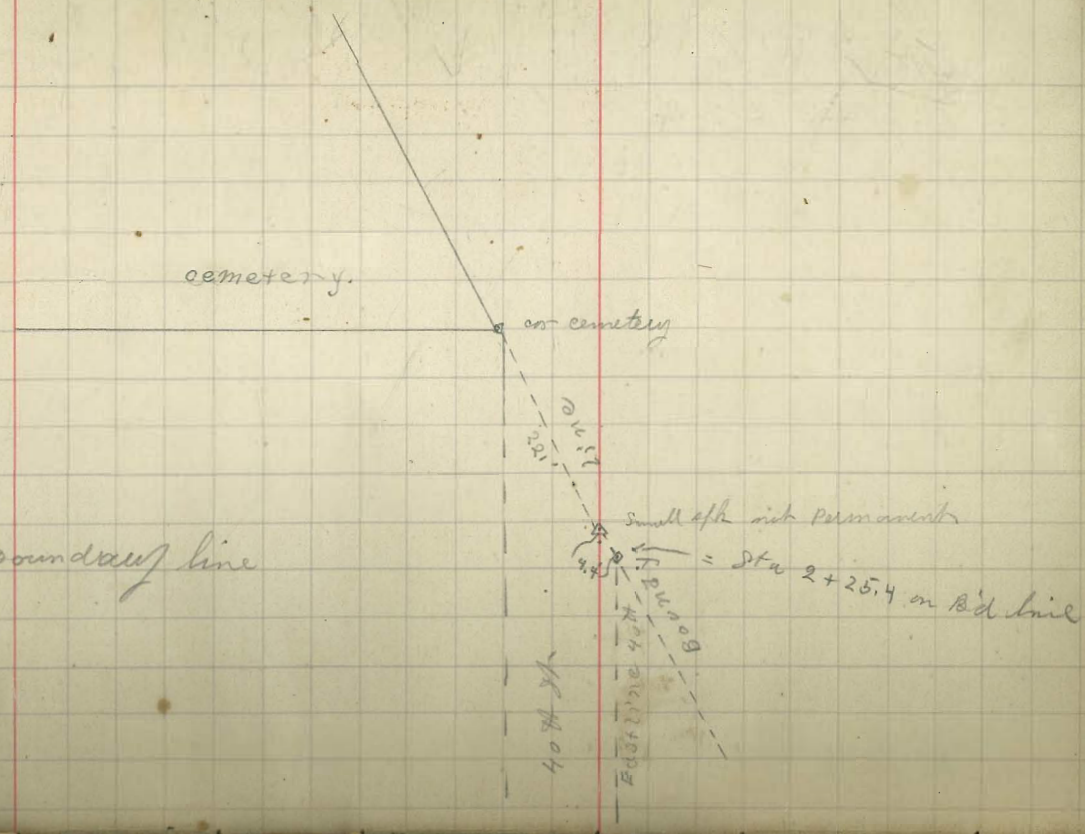
Sta	Course
38	
37	
36	
35	
34	
33	
32	
31	
30	
+ 29.5	
29	
+ 44.5	
+ 22.5	
28	
+ 91	
+ 62	
27	



Sta	Course		
+53.5			line
52			
51			
50			
49			
48			
47			
46			
45			
44			
43			
42			
41	N 14° 50' W		
40			
+33.5	90° R		
+29.5	N 0° 19' E		
~~39~~ 35 +		East line 40 ft St	Stake SE cor of 1344 1143



Sta | Course



+91 = Sta 2+21 on Boundary line

~~62~~ 59+91

62

61

+30

60

59

+80

58

+33

57

56

55

54

Sta Course N 15° 30' E mag.

Set up on the SE cor of B43 measured 23.1' west from S.E. Cor of cemetery, Π Sta this point,

dist from 39th St on S. St. to Pueblo line 621.00', dist from pueblo line to cor of fence 23.4 ✓

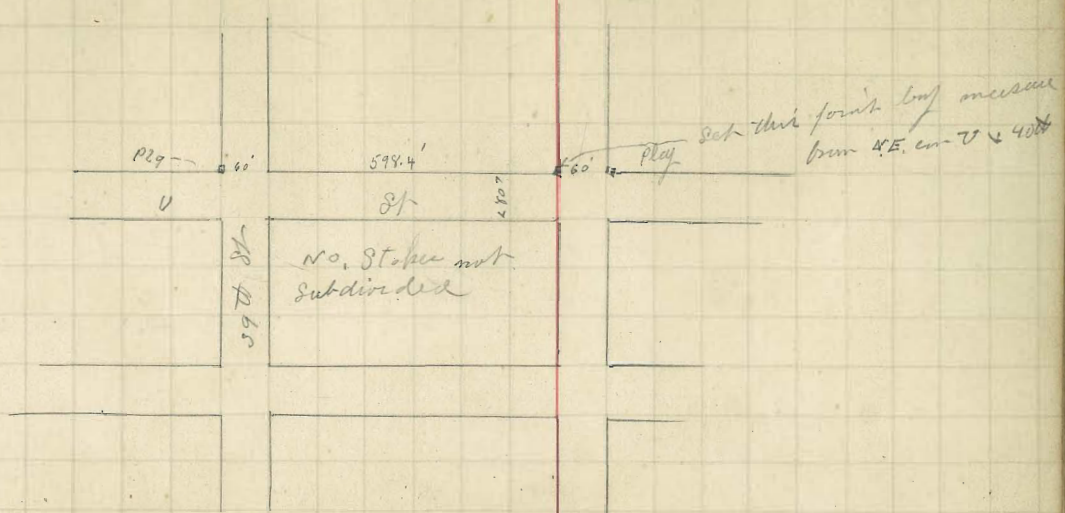
580' to South line of fence dist to Pueblo line 17.0' East to cor fence

on N line of R. St. 10.8 East to old Blk cor.

" S " " " " 43.5 to plank set in ground probably set for a cor

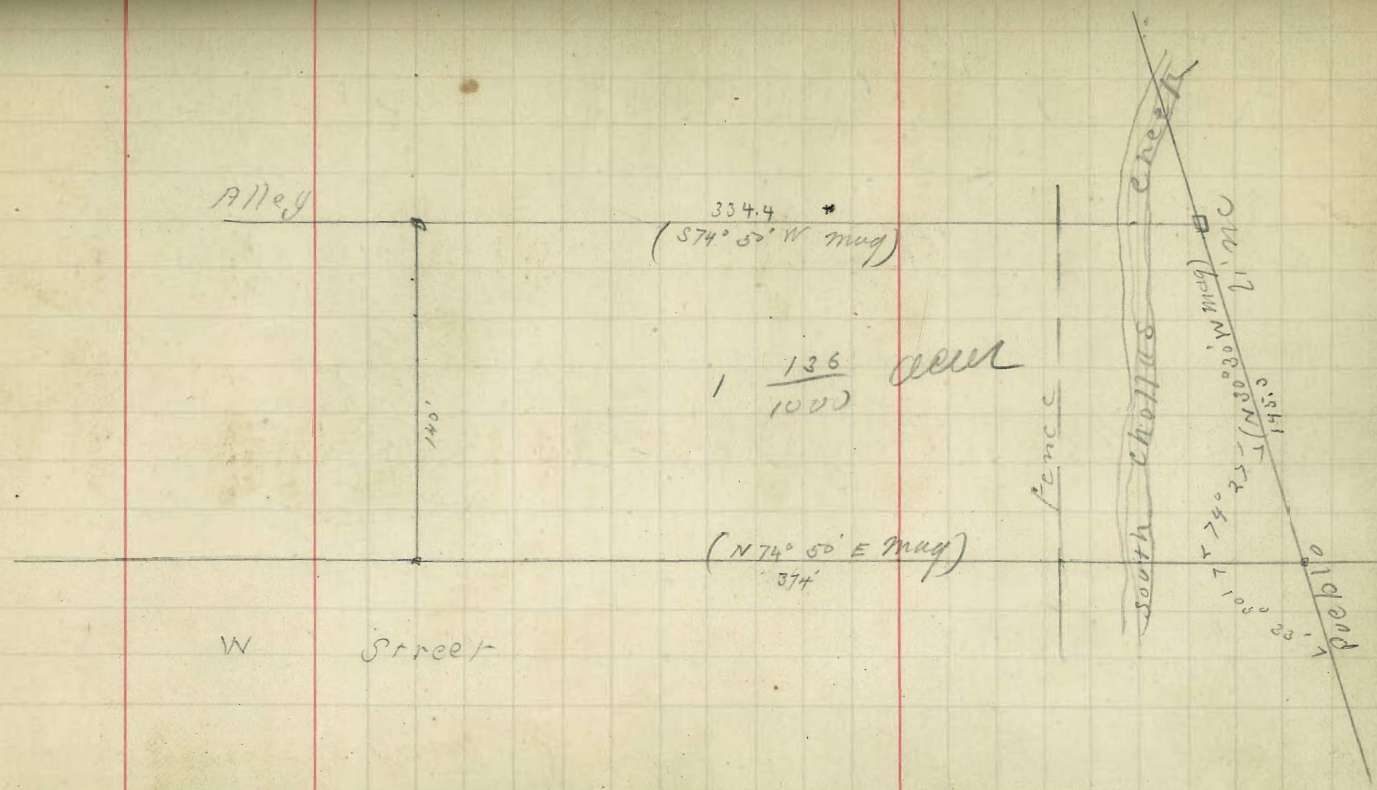
329.5 South of R St. 4x4" stake sawed off flush with surface offset 33.0 to East

Hence 494' South to plank set in ground 13.0 East from line



Hamlin & Party Sept 1 1891

Began at the SE cor of Blk 463' of W.G. Werth add
B.S. to SW cor of said block produced line East
267' crossed line of old fence, 300 bed of South Chollas Creek
374' intersected Eastern boundary of The Pueblo
(M.C. N74° 50' E) Thence 105° 33' Left (N 30° 30' W mag) 145.3'; Thence
74° 27' Left (S 74° 50' W mag) to south line of alley in blk
463 thence south 140' to point of beginning
containing 1 $\frac{136}{1000}$ acres



Measured from center of R.R. track 233.6' to point indicated on stone and on R.R. map, thence L 90° Left 417' to R.R. track 1320' set Stake, L 90° R 81 to stake cor 257 (4' left of it) 736' to center of R.R. 983' to fence

---

Beginning at the N cor of 316, (flat Stake set from East cor, 18.3 SE of cor of fence) N 35 1/4 (?) east, 466.7') thence (N 67° 50' W Mag.) 100' to E. cor of 335, (thence 38' to fence cor 48' Right) 466.7' set stake N cor of 335, (thence N 67° 50' W Mag) 38' to fence, 2.5 Right to cor by Pascoe Map (50' Right to cor of fence by Fox & Dyson) 466.7 set flat stake (2.0 Right to fence line) N cor of 336.) thence (N 67° 50' W Mag) 27' to cor of fence 2.0' Right) 466.7' set stake North cor of 337 (28' to cor of fence 10' to left) thence S 22° 40' W) 466.7 set flat Stake 28' Right cor of fence 58' Left to cor of fence) Thence N 67° 50' W) 466.7' to the

South cor of 339, thence (N 67° 50' W) 333' to line of fence

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TRAVERSE TABLE FOR TRANSIT BOOK,

From 1° to 99° for a distance of 100.

Degrees.	DEGREES.		¼ DEGREE.		½ DEGREE.		¾ DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	89
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	88
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	87
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	86
4	99.76	6.98	99.73	7.41	99.69	7.85	99.66	8.28	85
5	99.62	8.72	99.58	9.15	99.54	9.58	99.50	10.02	84
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	83
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	82
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	81
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	80
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	79
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	78
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	77
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	76
14	97.03	24.19	96.92	24.62	96.81	25.04	96.70	25.46	75
15	96.59	25.88	96.48	26.30	96.36	26.72	96.25	27.14	74
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	73
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	72
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	71
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	70
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	69
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	68
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	67
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	66
24	91.35	40.67	91.18	41.07	91.00	41.47	90.81	41.87	65
25	90.63	42.26	90.45	42.66	90.26	43.05	90.07	43.44	64
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	63
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	62
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	61
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	60
30	86.60	50.00	86.38	50.38	86.16	50.75	85.94	51.13	59
31	85.72	51.50	85.49	51.88	85.26	52.25	85.04	52.62	58
32	84.80	52.99	84.57	53.36	84.34	53.73	84.10	54.10	57
33	83.87	54.46	83.63	54.83	83.39	55.19	83.15	55.56	56
34	82.90	55.92	82.66	56.28	82.41	56.64	82.16	57.00	55
35	81.92	57.36	81.66	57.71	81.41	58.07	81.16	58.42	54
36	80.90	58.78	80.64	59.13	80.39	59.48	80.13	59.83	53
37	79.86	60.18	79.60	60.53	79.34	60.88	79.07	61.22	52
38	78.80	61.57	78.53	61.91	78.26	62.25	77.99	62.59	51
39	77.71	62.93	77.44	63.27	77.16	63.61	76.88	63.94	50
40	76.60	64.28	76.32	64.61	76.04	64.94	75.76	65.28	49
41	75.47	65.61	75.18	65.93	74.90	66.26	74.61	66.59	48
42	74.31	66.91	74.02	67.24	73.73	67.56	73.43	67.88	47
43	73.14	68.20	72.84	68.52	72.54	68.84	72.24	69.15	46
44	71.93	69.47	71.63	69.78	71.33	70.09	71.02	70.40	45
45	70.71	70.71							
Degrees.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Degrees.
	DEGREES.		¾ DEGREE.		½ DEGREE.		¼ DEGREE.		

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