5

City Park Contours

Return to City Engineer's Office
City Hall, San Diego, Cal.

159

400

LEVEL

F. B. 159

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

MICROFILMED
OCT 7 1964

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Nº 5

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Contour Survey City Park

No 5

2/6/03 Alverson
McLaren
Anginsola
Lull

△ Pt. on 8th St. range line at A 2 R

→ A 4+94 R

170 ft. Contour

0°00'	125°45' L	0.55	55 ✓
0°00'	66°45' L	0.13	13 ✓
0°00'	8°15' L	0.20	20 ✓
0°00'	19°15' R	0.70	70 ✓
0°00'	17°25' R	1.33	133 ✓
0°00'	15°40' R	1.83	183 ✓
0°00'	18°10' R	2.33	233 ✓
0°00'	24°25' R	2.58	258 ✓
0°00'	31°50' R	2.72	272 ✓
0°00'	36°20' R	2.77	277 ✓

0°00'	41°52' R	2.57		

△ Pt. 340.5 ft., angle 59.10 L from Sta 13 of Pound Canyon base line

→ Line produced northwesterly

165 ft. Contour -

Commencing at cut on Date St.

5°50'	97°45' L	1.83	181	✓
5°50'	102°10' L	1.60	158	✓
5°45'	101°15' L	1.18	117	✓
6°45'	90°30' L	0.87	87	✓
8°30'	76°45' L	0.67	66	✓

160 ft. Contour

6°30'	87°25' L	0.51	51	✓
5°15'	103°30' L	0.76	76	✓
3°10'	109°38' L	1.10	110	✓
2°40'	111°30' L	1.58	158	✓
3°00'	109°40' L	1.86	186	✓

3°40'	105°30' L	1.99	199	✓

Ending at cut on Date St

△ Pt. on 8th St range line at B 1+50 R

→ B.0

190 ft. Contour

0°50'	49°06' L	1.82	182	✓
1°00'	51°15' L	1.43	143	✓
0°45'	36°30' L	1.18	118	✓
0°40'	9°15' L	1.21	121	✓
0°40'	7°50' R	1.48	148	✓
0°30'	23°50' R	1.78	178	✓
0°30'	37°00' R	1.97	197	✓
0°30'	49°00' R	2.03	203	✓
0°30'	60°00' R	2.31	231	✓
0°30'	69°10' R	2.54	254	✓
0°30'	76°32' R	2.59	259	✓
0°30'	83°35' R	2.47	247	✓
0°30'	89°45' R	2.74	274	✓

0°30'	92°10'R.	3.10	310 ✓
0°30'	94°00'R.	3.57	357 ✓
0°30'	94°55'R.	4.00	400 ✓
0°30'	93°55'R.	4.27	427 ✓
0°55'	92°40'R.	4.43	443 ✓

185 ft. Contour

0°00'	97°00'R.	4.30	430 ✓
0°15'	97°15'R.	4.00	400 ✓
0°15'	96°55'R.	3.57	357 ✓
0°00'	95°30'R.	3.10	310 ✓
0°00'	93°45'R.	2.62	262 ✓
0°30'	92°00'R.	2.27	227 ✓
0°15'	82°50'R.	2.23	223 ✓
0°20'	73°16'R.	2.38	238 ✓
0°30'	65°22'R.	2.23	223 ✓
0°30'	59°05'R.	2.04	204 ✓
0°30'	51°37'R.	1.73	173 ✓

0°30'	39°55'R.	1.54	154 ✓
0°30'	29°36'R.	1.27	127 ✓
0°30'	19°40'R.	0.95	95 ✓
0°30'	35°38'R.	0.47	47 ✓
0°30'	37°00'N	0.16	16 ✓
at B1+50 R.			
0°15'	137°45'L.	0.19	19 ✓
0°30'	114°05'L.	0.58	58 ✓
0°15'	117°00'L.	1.10	110 ✓
0°30'	118°37'L.	1.63	163 ✓
0°15'	119°32'L.	2.10	210 ✓
0°30'	111°42'L.	2.43	243 ✓

△ Pt on 8th Strangeline 200 ft. N. of C 6+13 L.
→ C 6+13 L.

205 ft. Contour

2°30'	138' L.	1.66	166 ✓

Vertical	Horiz.	Rod	
4°20'	6°40' L	1.40	140 ✓
4°15'	14°43' L	1.16	116 ✓
4°15'	23°15' L	0.94	94 ✓
5°30'	43°10' L	0.72	71 ✓
6°00'	57°30' L	0.74	73 ✓

210 ft. Contour

6°00'	63°50' L	0.48	48 ✓
6°00'	36°18' L	0.54	54 ✓
4°00'	16°25' L	0.73	73 ✓
4°00'	8°25' L	0.87	87 ✓
3°30'	0°45' R	1.02	102 ✓

215 ft Contour

4°10'	155°10' L	0.15	15 ✓
4°00'	98°32' L	0.22	22 ✓
1°00'	111°07' L	0.48	48 ✓

1°15'	119°00' L	0.81	81 ✓
0°00'	126°30' L	1.01	101 ✓
1°45'	137°00' L	1.21	121 ✓
1°00'	143°25' L	1.36	136 ✓

△ Pt on 8th St range line at □5+87 L

→ □0

190 ft. Contour

8°35'	68°20' R	2.87	281 ✓
8°20'	73°32' R	2.56	251 ✓
9°35'	77°50' R	2.23	217 ✓
10°20'	77°30' R	2.05	198 ✓
9°15'	75°30' R	2.23	217 ✓
8°45'	72°20' R	2.42	236 ✓
7°30'	67°55' R	2.56	252 ✓

3/10/03 Alverson
McLaren
Agginaska
Lidee

Δ Pt. on 8th lt. range line at □ 4+87 L.

→ □ 5+87 L.

235 ft. Contour

0°00′	142°20′L.	3.87	387 ✓
0°00′	145°18′L.	3.37	337 ✓
0°00′	144°40′L.	3.00	300 ✓
0°00′	150°05′L.	2.57	257 ✓
0°00′	158°05′L.	2.23	223 ✓
0°00′	164°40′L.	1.70	170 ✓
0°00′	178°00′R.	1.20	120 ✓
0°00′	155°50′R.	0.90	90 ✓
0°00′	126°37′R.	0.97	97 ✓
0°00′	116°05′R.	1.35	135 ✓
0°00′	102°25′R.	1.34	134 ✓
0°00′	91°10′R.	1.48	148 ✓

0°00′	80°30′R.	1.41	141 ✓
0°00′	74°15′R.	1.58	158 ✓
0°00′	71°40′R.	1.87	187 ✓
0°00′	69°49′R.	2.02	202 ✓
0°00′	63°00′R.	2.16	216 ✓
0°00′	57°55′R.	2.02	202 ✓
0°00′	53°15′R.	1.90	190 ✓
0°00′	58°20′R.	1.77	177 ✓
0°00′	46°18′R.	1.70	170 ✓

230 ft. Contour.

1°00′	0°25′R.	1.36	136 ✓
1°30′	3°30′R.	1.10	110 ✓
1°45′	19°55′R.	1.07	107 ✓
1°30′	28°05′R.	1.16	116 ✓
1°35′	46°55′R.	1.42	142 ✓
0°20′	50°00′R.	1.60	160 ✓
0°30′	52°20′R.	1.78	178 ✓

0°15′	57°30′R	1.98	198 ✓
0°15′	62°10′R	2.08	208 ✓
0°15′	65°55′R	1.96	196 ✓
0°15′	69°15′R	1.90	190 ✓
0°15′	67°10′R	1.68	168 ✓
0°20′	69°55′R	1.46	146 ✓
0°15′	73°10′R	1.26	126 ✓
0°15′	70°15′R	1.01	101 ✓
0°15′	87°15′R	0.94	94 ✓
0°15′	89°10′R	0.66	66 ✓
1°00′	78°25′R	0.41	41 ✓
1°00′	65°15′R	0.14	14 ✓
1°00′	85°12′L	0.22	22 ✓
1°00′	110°32′L	0.54	54 ✓
1°00′	133°37′L	0.96	96 ✓
1°00′	140°55′L	1.54	154 ✓
0°00′	144°55′L	1.94	194 ✓
0°00′	138°00′L	2.27	227 ✓

0°15′	131°25′L	2.55	255 ✓
0°30′	128°10′L	2.88	288 ✓
0°25′	125°15′L	3.28	328 ✓
225 ft Contour			
1°00′	118°20′L	3.42	342 ✓
1°00′	121°45′L	3.07	307 ✓
1°00′	126°04′L	2.54	254 ✓
1°00′	130°12′L	2.13	213 ✓
1°00′	129°45′L	1.80	180 ✓
1°20′	118°12′L	1.55	155 ✓
1°30′	105°43′L	1.34	134 ✓
3°00′	91°25′L	1.33	133 ✓
3°40′	78°03′L	0.97	97 ✓
4°00′	64°10′L	0.79	79 ✓
4°10′	59°00′L	0.50	50 ✓
3°45′	33°12′L	0.18	18 ✓
3°30′	54°45′R	0.27	27 ✓

3°10′	76°18′R.	0.47	47 ✓
3°10′	81°00′R.	0.58	58 ✓
1°00′	90°10′R.	0.83	83 ✓
2°00′	77°12′R.	0.90	90 ✓
2°15′	67°40′R.	1.02	102 ✓
2°00′	70°35′R.	1.27	127 ✓
2°00′	68°50′R.	1.50	150 ✓
2°00′	65°45′R.	1.70	170 ✓
1°00′	66°55′R.	1.87	187 ✓
1°10′	60°55′R.	2.00	200 ✓
1°10′	57°05′R.	1.88	188 ✓
1°15′	54°22′R.	1.80	180 ✓
2°30′	52°05′R.	1.60	160 ✓
1°30′	48°08′R.	1.44	144 ✓
1°30′	35°20′R.	1.21	121 ✓
2°00′	23°06′R.	0.96	96 ✓
2°00′	4°30′R.	0.92	92 ✓
2°00′	9°45′ L.	1.09	109 ✓

20 ft. Contour

4°15′	14°35′L.	1.12	112 ✓
4°30′	3°10′L.	0.92	92 ✓
4°30′	9°05′R.	0.84	84 ✓
4°30′	27°52′R.	0.98	98 ✓
4°30′	45°50′R.	1.30	130 ✓
4°30′	51°22′R.	1.53	153 ✓
4°00′	54°50′R.	1.73	173 ✓
4°00′	60°00′R.	1.90	190 ✓
3°50′	64°05′R.	1.83	183 ✓
3°45′	68°30′R.	1.64	164 ✓
3°50′	66°15′R.	1.43	143 ✓
3°50′	66°25′R.	1.16	116 ✓
4°45′	63°25′R.	0.97	97 ✓
5°00′	76°28′R.	0.82	82 ✓
6°00′	74°15′R.	0.61	61 ✓
10°00′	55°30′R.	0.41	40 ✓
14°10′	23°52′R.	0.24	24 ✓

Vertical Horiz Rod.

10°15'	45°05'L	0.39	38 ✓
6°00'	56°42'L	0.77	77 ✓

215 ft. Contour.

9°30'	50°55'L	0.73	71 ✓
12°40'	38°15'L	0.50	48 ✓
10°45'	9°30'L	0.35	31 ✓
15°40'	37°40'R	0.40	37 ✓
12°00'	59°52'R	0.54	52 ✓
7°20'	73°37'R	0.70	69 ✓
7°30'	63°00'R	0.88	86 ✓
6°15'	62°15'R	1.18	117 ✓
5°00'	63°00'R	1.47	146 ✓
4°15'	62°36'R	1.70	170 ✓
4°45'	60°55'R	1.78	178 ✓
4°30'	56°20'R	1.70	170 ✓
4°45'	54°15'R	1.57	157 ✓

4°45'	52°30'R	1.37	137 ✓
5°00'	46°15'R	1.20	119 ✓
6°20'	37°55'R	1.10	109 ✓
6°35'	32°30'R	1.00	99 ✓
7°00'	9°00'R	0.80	79 ✓
7°00'	8°45'L	0.93	92 ✓
7°00'	17°50'L	1.09	108 ✓

210 ft. Contour.

8°45'	18°30'L	1.01	99 ✓
11°00'	1°15'L	0.79	76 ✓
11°00'	14°05'R	0.77	74 ✓
7°45'	39°05'R	1.04	102 ✓
7°10'	52°18'R	1.28	126 ✓
7°00'	56°50'R	1.47	145 ✓
7°00'	59°45'R	1.62	160 ✓
7°00'	59°52'R	1.35	133 ✓
8°00'	59°30'R	1.14	112 ✓

11°45'	49°00' R	0.84	81 ✓
11°00'	64°05' R	0.77	74 ✓
16°00'	40°50' R	0.58	54 ✓
22°30'	3°35' R	0.42	36 ✓
15°00'	31°45' L	0.57	53 ✓
11°45'	49°10' L	0.77	74 ✓

705 ft. Contour.

11°45'	75°38' L	1.05	101 ✓
14°30'	11°35' L	0.84	79 ✓
18°00'	7°10' R	0.70	63 ✓
15°45'	29°10' R	0.75	69 ✓
15°45'	35°35' R	0.86	80 ✓
15°00'	45°20' R	1.02	95 ✓
16°30'	44°05' R	0.72	66 ✓
13°30'	21°30' R	0.56	53 ✓
23°00'	13°00' L	0.55	47 ✓
15°30'	35°05' L	0.75	70 ✓

13°00'	45°20' L	0.87	83 ✓

702 ft. Contour.

13°00'	37°55' L	0.97	92 ✓
18°00'	22°45' L	0.73	66 ✓
15°00'	3°00' R	0.70	65 ✓
14°30'	16°08' R	0.67	63 ✓
22°30'	1°45' R	0.69	59 ✓
18°30'	15°40' L	0.82	74 ✓
14°00'	30°52' L	1.10	104 ✓
13°00'	38°32' L	1.20	114 ✓

Con. from Book 6. Page 159

△ Pt on Pound Canyon base line at Sta 66

→ N 4+05

250 ft Contour

10°20'	16°25'R	4.95	479	✓
10°35'	19°30'R	4.81	464	✓
11°00'	22°48'R	4.65	448	✓
11°15'	25°20'R	4.54	437	✓
11°00'	30°40'R	4.60	443	✓
10°55'	33°20'R	4.73	464	✓

255 ft Contour

11°05'	31°45'R	4.87	469	✓
11°30'	27°40'R	4.70	452	✓
11°30'	25°00'R	4.72	454	✓
11°00'	21°05'R	4.88	471	✓
10°40'	16°55'R	5.10	493	✓

260 ft Contour

11°00'	18°30'R	5.17	500	✓
11°30'	23°30'R	5.00	483	✓
11°40'	26°55'R	4.90	473	✓
11°30'	29°55'R	5.07	490	✓

△ Pt on Pound Canyon base line at Sta 61

→ Sta 73

150 ft Contour

0°45'	186°30'R	2.34	234	✓
0°45'	176°45'R	2.42	242	✓
0°45'	166°10'R	2.23	223	✓
1°00'	162°30'R	1.88	188	✓
1°00'	171°20'R	1.60	160	✓
1°20'	177°25'R	1.23	123	✓
1°00'	183°30'R	0.65	65	✓
0°30'	131°00'R	0.35	35	✓

0°30′	66°15′R	0.53	53	✓

155 ft Contour

0°30′	7°15′R	2.14	214	✓
0°40′	12°30′R	2.73	273	✓
1°15′	7°55′R	3.28	328	✓
1°15′	13°30′R	2.87	287	✓
1°15′	17°45′R	2.36	236	✓
1°30′	17°45′R	1.70	170	✓
1°30′	19°45′R	1.31	131	✓
1°30′	38°45′R	0.90	90	✓
1°30′	63°45′R	0.80	80	✓
1°30′	90°00′R	0.70	70	✓

160 ft Contour

0°30′	52°35′R	1.00	100	✓
0°30′	72°05′R	1.00	100	✓
0°40′	86°30′R	1.21	129	✓
1°00′	90°00′R	1.50	150	✓

165 ft Contour

2°00′	90°00′R	2.28	228	✓
2°30′	88°55′R	1.96	196	✓
3°30′	85°20′R	1.71	170	✓
4°00′	78°55′R	1.50	149	✓
4°00′	70°10′R	1.25	124	✓
3°50′	59°45′R	1.13	113	✓

170 ft Contour

5°35′	54°15′R	1.36	135	✓
5°15′	65°55′R	1.47	146	✓
5°00′	74°45′R	1.70	169	✓
4°10′	82°55′R	1.92	191	✓
3°50′	86°05′R	2.14	213	✓
3°30′	87°10′R	2.37	236	✓
3°15′	89°48′R	2.72	271	✓

3°00'	92°00'R	2.97	296	✓
2°30'	93°15'R	3.15	314	✓
175 ft Contour				
3°45'	90°40'R	3.18	317	✓
4°00'	88°50'R	3.00	298	✓
4°00'	86°15'R	2.70	268	✓
4°45'	83°35'R	2.38	236	✓
5°00'	78°30'R	2.08	206	✓
5°45'	70°22'R	1.80	178	✓
6°20'	62°00'R	1.65	163	✓
6°45'	54°10'R	1.61	159	✓
180 ft Contour				
7°30'	54°00'R	1.83	180	✓
7°00'	67°45'R	1.96	193	✓
6°25'	75°05'R	2.13	211	✓
5°35'	79°45'R	2.38	236	✓

5°00'	83°12'R	2.70	268	✓
4°30'	86°10'R	3.07	305	✓
4°15'	87°50'R	3.23	321	✓
185 ft Contour				
5°00'	85°45'R	3.26	324	✓
5°30'	83°30'R	3.00	298	✓
6°00'	81°00'R	2.77	274	✓
6°30'	77°52'R	2.53	250	✓
7°30'	72°55'R	2.24	221	✓
8°00'	64°55'R	2.07	203	✓
8°00'	56°15'R	2.00	197	✓
190 ft Contour				
8°35'	49°00'R	2.32	226	✓
8°15'	54°12'R	2.25	219	✓
8°10'	63°05'R	2.24	218	✓
8°15'	70°22'R	2.36	230	✓

24

7°30′	76°45′R. 2.62	258	✓
6°30′	81°40′R. 3.08	304	✓
6°10′	84°05′R. 3.30	326	✓

195 ft. Contour

6°45′	82°45′R. 3.32	328	✓
7°15′	80°20′R. 3.10	306	✓
8°00′	76°48′R. 2.80	275	✓
8°40′	71°10′R. 2.39	254	✓
9°10′	65°20′R. 2.47	241	✓
9°15′	58°15′R. 2.44	238	✓
9°10′	51°45′R. 2.43	237	✓

200 ft. Contour.

9°35′	50°50′R. 2.73	266	✓
10°00′	59°00′R. 2.65	258	✓
9°30′	66°45′R. 2.73	266	✓
9°40′	74°38′R. 2.94	287	✓

8°00′	79°00′R. 3.17	311	✓
7°45′	81°25′R. 3.37	330	✓

205 ft. Contour.

8°30′	78°45′R. 3.43	336	✓
9°00′	75°05′R. 3.17	311	✓
9°40′	68°25′R. 2.96	288	✓
10°00′	60°30′R. 2.87	279	✓
10°00′	55°25′R. 2.83	275	✓
10°00′	50°00′R. 2.75	287	✓

210 ft. Contour.

9°50′	47°50′R. 3.27	317	✓
10°00′	54°50′R. 3.19	309	✓
10°00′	61°10′R. 3.13	303	✓
10°00′	68°38′R. 3.24	314	✓
9°30′	73°00′R. 3.38	328	✓
9°00′	76°00′R. 3.52	343	✓

26

215 ft Contour

9°30′	73°15′R. 3.62	352	✓
10°00′	69°10′R. 3.46	338	✓
10°15′	64°00′R. 3.47	337	✓
10°30′	59°20′R. 3.38	328	✓
10°00′	51°35′R. 3.42	332	✓
10°00′	48°45′R. 3.44	334	✓

220 ft Contour

10°30′	49°40′R. 3.72	362	✓
10°30′	54°42′R. 3.65	355	✓
10°30′	60°55′R. 3.63	353	✓
10°30′	66°05′R. 3.67	357	✓
10°00′	70°10′R. 3.73	363	✓

225 ft Contour

10°30′	65°25′R. 3.75	385	✓
10°30′	62°35′R. 3.76	370	✓

27

10°30′	56°55′R. 3.75	368	✓
10°30′	52°05′R. 3.96	386	✓
10°00′	47°47′R. 4.15	394	✓

End of work — March 18, 1903

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Return to City Engineers Office
City Hall, San Diego, Cal.

TRAVERSE TABLE FOR TRANSIT BOOK.

From 1° to 90° for a distance of 100.

Return to City Engineers Office
City Hall, San Diego, Cal.

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	99.03	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.		

Published by H. S. CROCKER COMPANY, Stationers, Drawing Materials, Mathematical Instruments, etc., San Francisco.