

City Park
Survey.—

Contours

2

#6.

F.B. 617

617 Contuse

140 A Brickyard

140 C Switzer-

MICROFILMED

DEC 14 1964

9.....21	29.....67	49.....114
10.....23	30.....70	50.....116
11.....25	31.....72	51.....119
12.....28	32.....74	52.....121
13.....30	33.....77	53.....123
14.....32	34.....79	54.....126
15.....35	35.....81	55.....128
16.....37	36.....84	56.....130
17.....39	37.....86	57.....133
18.....42	38.....88	58.....135
19.....44	39.....91	59.....137
20.....46	40.....93	60.....140

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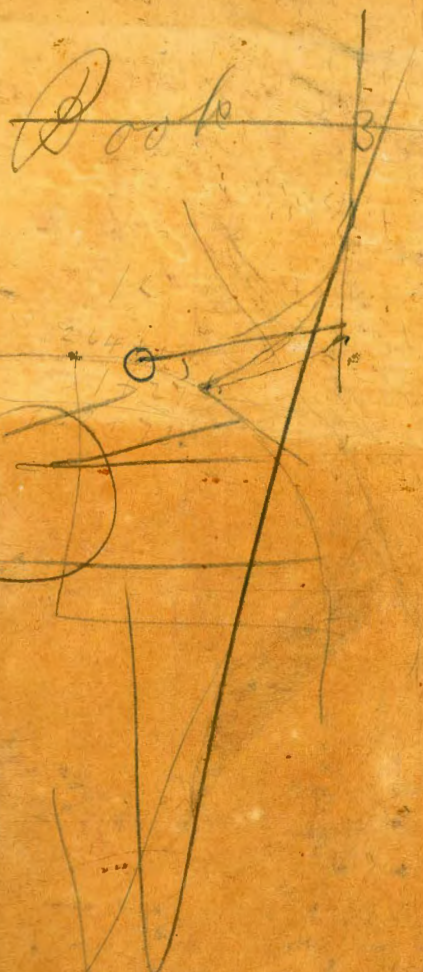
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Table for Running on Slopes.

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	4.58	24	9.47	35	22.07



6
/

$$\begin{array}{r} 11.90 \\ 32 \\ \hline 11.58 \\ 11.58 \\ \hline 23.16 \\ 1.35 \\ \hline 1.81 \\ 8 \\ \hline 1.01 \end{array}$$

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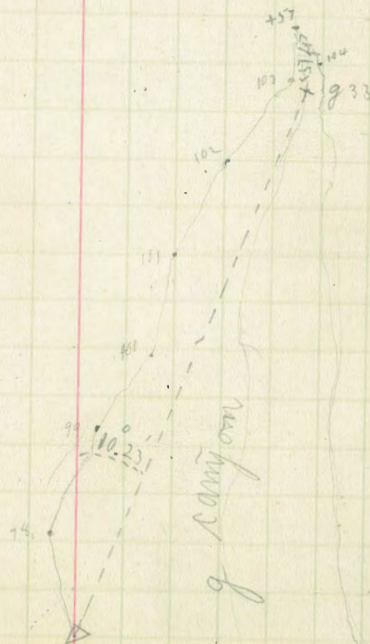
1

140 Contour line

Sta. Left Right

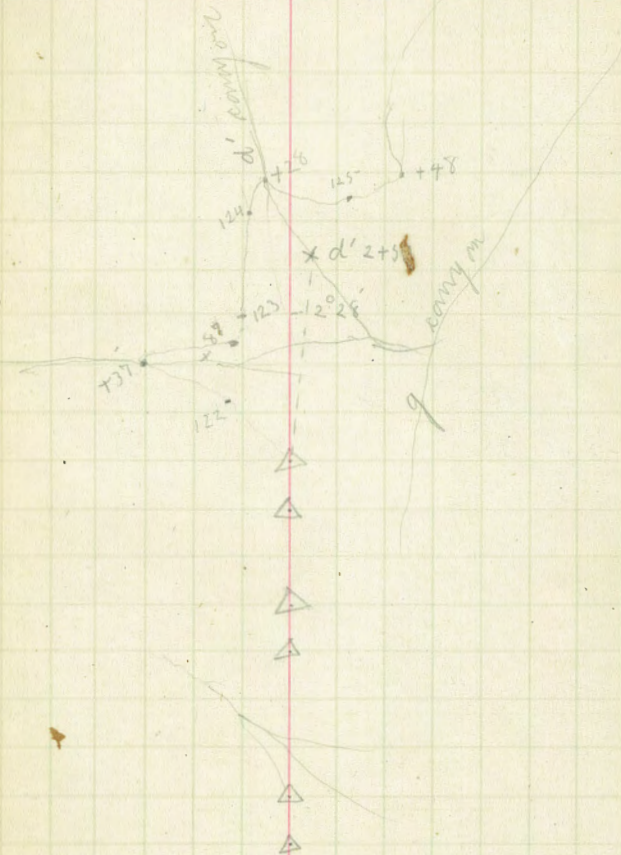
Continued from book No. 2

112+64	152° 00'
112	145° 32'
111+72	140° 20'
111	135° 45'
110	106° 08'
109	55° 42'
108	25° 21'
107	18° 10'
106	13° 25'
105	11° 57'
104	11° 17'
103+67	9° 03'
103	9° 18'
102	7° 44'
101	5° 52'
100	5° 20'
99	1° 37'
98	11° 05'
97+44	1° 24'
97	4° 44'



140 Contour line

Sta	Left	Right
125+48		27° 24'
125		12° 50'
124+28	1° 58'	
124	4° 00'	
123	10° 26'	
122+89	11° 55'	
122+37	46° 23'	
122	41° 10'	
121+62	16° 36'	
121	19° 22'	
120	12° 35'	
119+79	21° 33'	
119		99° 41'
118		44° 30'
117+54	13° 55'	
117	47° 26'	
116+71		163° 17'
116		162° 59'
115		162° 30'
114		156° 22'
113		152° 26'

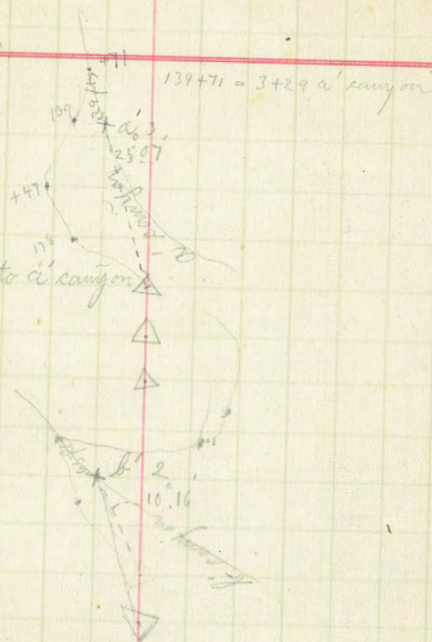


140 Lantau line

Sta. Left Right.

139	37° 30'	
138+47	52° 14'	
138	59° 16'	
137+57	23° 02'	
137	4° 40'	
136	32° 06'	
135+71	30° 20'	
135	3° 18'	
134+34	37° 45'	
134	38° 33'	
133+17	57° 41'	
133	57° 39'	
132	48° 07'	
131	44° 44'	
130	40° 17'	
129+72	38° 44'	
129+40	35° 52'	
129	37° 04'	
128	33° 02'	
127	29° 00'	
126	26° 59'	

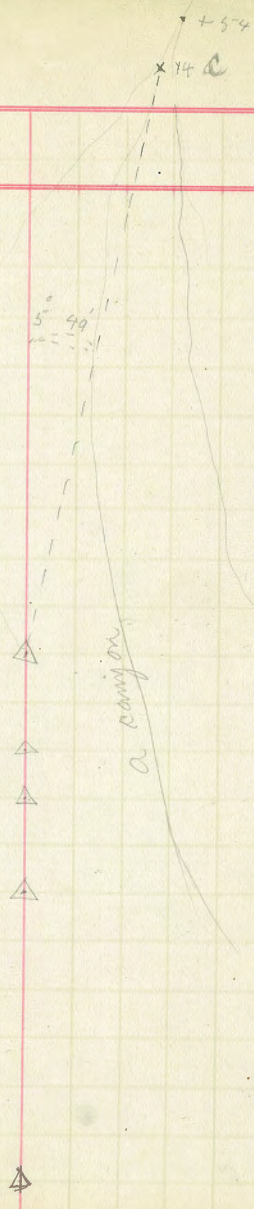
Entrance to a canyon



140. Mountain line

Sta. Left Right

174		3° 31'
173		3° 13'
172		3° 00'
171		2° 45'
170		1° 18'
169	00° 43'	
168	3° 22'	
167	4° 20'	
166	19° 11'	
165	17° 45'	
164	30° 26'	
163	127° 22'	
162	109° 42'	
161+90	7° 37'	
161	10° 00'	
160	5° 58'	
159	00° 02'	
158	3° 57'	
157	5° 06'	
156	12° 27'	
155	12° 41'	



140 Boston line

Sta. Left Right

185+32	44° 19'	
185	44° 35'	
184+58	42° 47'	
184	37° 12'	
183+84	33° 27'	
183	32° 35'	
182+66	32° 14'	
182	26° 22'	
181+78	24° 25'	
181+25	23° 32'	
181	21° 35'	
180	17° 05'	
179+58	14° 36'	
179	13° 25'	
178+58	12° 46'	
178	9° 07'	
177+05	8° 02'	
177	7° 18'	
176+64	5° 52'	
176	5° 41'	
175	3° 57'	

176+54 = H+20 @ canyon

140 contour line

Sta Left Right

200	3° 10'	
199	44° 53'	
198+45	34° 44'	
198	25° 04'	
197+68	34° 49'	
197	6° 47'	
196	11° 33'	
195	40° 24'	
194+38	41° 29'	
194	32° 32'	
193+70	17° 40'	
193	19° 13'	
192	20° 45'	
191+84	40° 41'	
191	13° 04'	
190	16° 42'	
189	14° 28'	
188+71	71° 37'	
188	71° 57'	
187	66° 41'	
186	53° 00'	

193 = 5+72 E canyon

26
 24
 24+50 d
 +60



140 Contour line

Sta. Left Right

212		63° 57'
211		3° 30'
210	15° 10'	
209+67	18° 12'	
209	35° 18'	
208		111° 17'
207+67		113° 02'
207		75° 18'
206+15		1° 36'
206	00° 33'	
205+29	25° 18'	
205	27° 08'	
204+46	21° 03'	
204		65° 26'
203		54° 21'
202+90		52° 42'
202+45		60° 50'
202		60° 54'
201		33° 15'
200+68		19° 26'
200+26		2° 06'

211 = 1+59 c' canyon



51

51.5

200+26 = 2+57 0'

140 contour line

Sta. Left Right

226	15° 20'	
225	107° 36'	
224	111° 08'	
223+60	78° 15'	
223+28	21° 31'	
223	22° 51'	
222+76	24° 15'	
222	19° 12'	
221	15° 41'	
220	11° 05'	
219	9° 05'	
218	8° 34'	
217+59	129° 31'	
217	129° 44'	
216	125° 56'	
215+34	84° 07'	
215	64° 08'	
214	14° 53'	
213+79	25° 48'	
213	46° 50'	
212+73	64° 05'	

* 57+50 h'

8° 10'

101° 49'

sta 3 h" canyon

5.16

5.13

4.95

4.77

5.03

4.92

$$213+79 = 14+92$$

* 15 f'

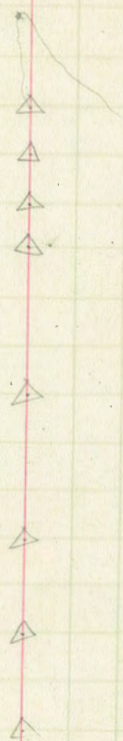
26 48'

canyon on

140 Mountain Line

Sta. Left Right

239	57° 08'
238+56	1° 31'
238	41° 30'
237+42	13° 06'
237	23° 00'
236+59	22° 48'
236	23° 08'
235	21° 56'
234+48	14° 21'
234	13° 56'
232	21° 52'
231+32	10° 18'
231	13° 08'
231+58	26° 21'
230	23° 54'
229+72	66° 05'
229	64° 05'
228	26° 58'
227+53	11° 18'
227	6° 27'
226+72	15° 47'



$$226+72 = 6'' 5' 73$$

140 Montauk line

Sta. Left Right

257+28	9° 47'	
257	5° 57'	
250+20	4° 43'	
250	4° 28'	
249	5° 01'	
248+92	58° 33'	
248	39° 14'	
247+76	15° 58'	
247	24° 46'	
246	33° 32'	
245+91	25° 30'	
245+53	31° 48'	
245	26° 50'	
244+85	15° 45'	
244	17° 37'	
243+61	7° 56'	
243	10° 33'	
242	18° 08'	
241	38° 50'	
240+36	122° 37'	
240	124° 37'	



140 contour line

Sta. Left Right

2+90 34° 08'

2+22 35° 47'

2 43° 09'

1 123° 50'

126+99

258+80 45° 14'

258 17° 23'

257+88 17° 38'

257 18° 16'

256 22° 31'

255+43 7° 19'

255 13° 57'

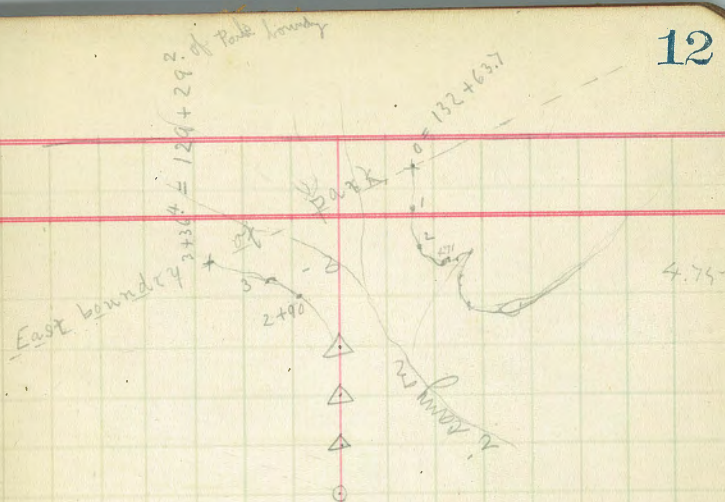
254+15 43° 31'

254 39° 46'

253+90 34° 25'

253 139° 58'

252 62° 41'



Starting from Sta. 126+99 East boundary = 0 of
140 contour F.S. 124 looking North turned inside
angle left.

East boundary - 17° 46' of - 02 park boundary
258+80 = 113 + 28.3

252 = 8 + 63.5
1.8 line

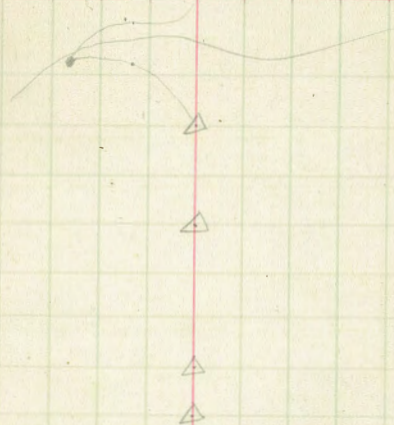
140 contour line

Sta	Left	Right
10	44° 36'	
9+53		2° 28'
9		2° 57'
8+42	8° 26'	
8	10° 48'	
7	12° 36'	
6+54	12° 35'	
6		83° 08'
5+56		83° 02'
5		75° 08'
4+68		68° 30'
4		57° 44'
3+61		53° 12'
3		50° 24'
2+71		49° 21'
2		33° 26'
1		14° 35'
0		7° 44'

3+36.4

3

36° 23'



0 = 132 + 63.7 of peak boundary

3+36.4 = 129 + 29.2 of Park boundary

140 mountain line

Sta. Left Right

4		163° 42'
3		153° 57'
2		140° 46'
1		118° 30'
0		107° 57'

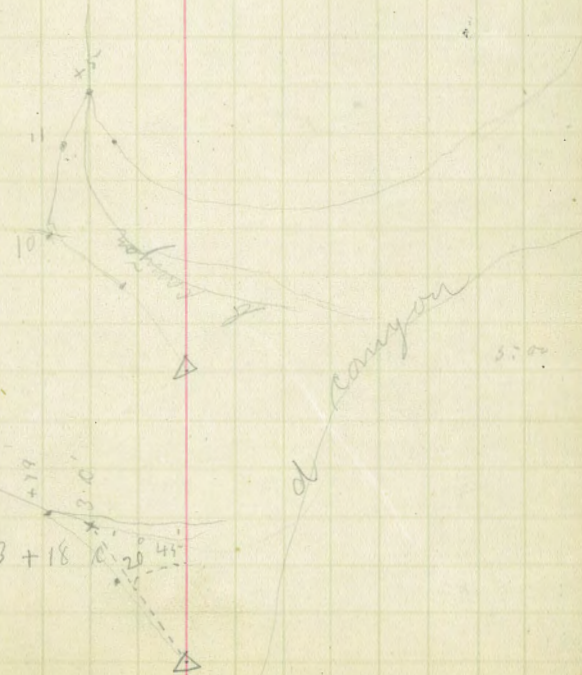
29+67.2	43° 39'
29+22	27° 36'
29	20° 34'
28+68	15° 52'
28	14° 16'
27+44	32° 35'
27	33° 14'
26	36° 16'
25	36° 46'
24+63	32° 30'
24	46° 50'
23+72	56° 32'
23	57° 34'
22+65	34° 21'
22	24° 10'

- East $0 = 145 + 13.2$ of Park boundary
 boundary
 $29+67.2 = 141+39$ Park boundary



140 contour line

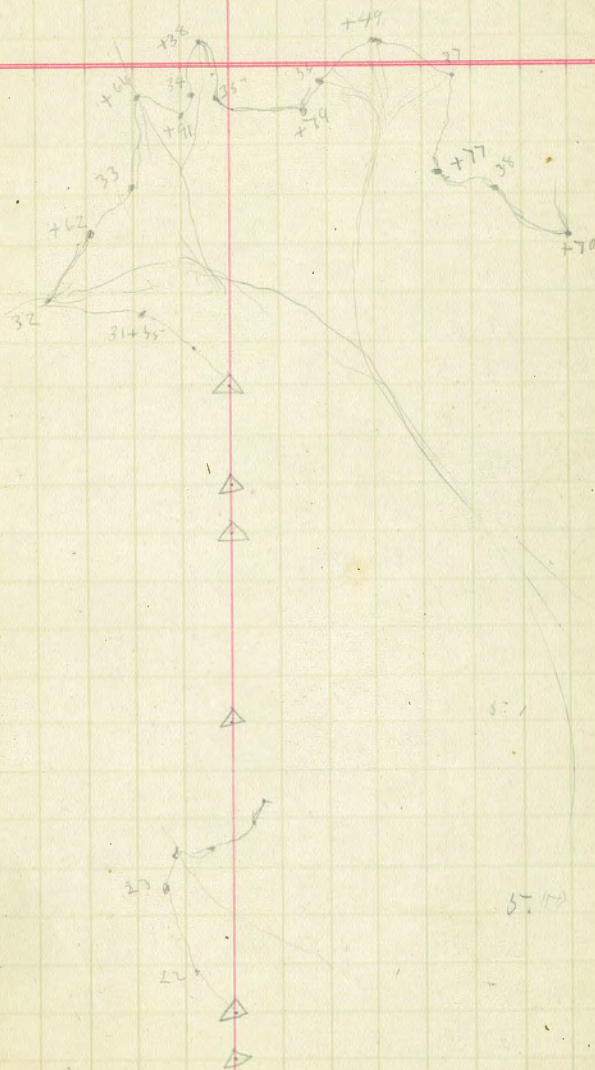
Sta.	Left	Right
20	56° 24'	
19+66	13° 18'	
19		40° 24'
18		38° 26'
17		34° 58'
16		29° 38'
15		25° 39'
14		12° 02'
13	13° 33'	
12	39° 08'	
11+50	43° 49'	
10	50° 54'	
10	65° 15'	
9	63° 40'	
8+45		47° 08'
8		47° 15'
7		20° 51'
6	19° 03'	
5+79	27° 02'	
5	26° 57'	
4+39		163° 20'



140 Contour line

Sta. Left Right

33	23° 50'
32+62	32° 06'
32	48° 17'
31+48	37° 30'
31	36° 21'
30+77	78° 02'
30	67° 10'
29+82	31° 07'
29	17° 21'
28	14° 27'
27	4° 00'
26	13° 35'
25	5° 02'
24+81	4° 45'
24	13° 25'
23+48	27° 49'
23	33° 09'
22	39° 26'
21+86	32° 22'
21+59	23° 02'
21	23° 47'

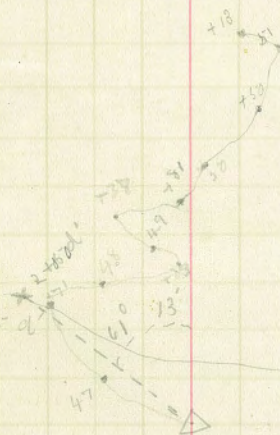


140 Contour

Sta. Left Right

32	88° 57'				
51+18	7° 49'				
51	9° 09'				
50+50	8° 21'				
50	00° 37'				
49+81	1° 39'				
49+37	16° 03'				
49	4° 56'				
48+83	3° 17'				
48	44° 14'				
47+71	59° 17'				
47	68° 26'				
46+62	14° 46'				
46+35	16° 44'				
46	10° 58'				
45+22	9° 11'				
45	11° 33'				
44+91	13° 23'				
44+40	28° 38'				
44	32° 50'				
43	73° 32'				

$$47+71 = 2+45 \text{ d}$$



140 Loutain

$13^0 \quad 14^1$

4	2	110	53
---	---	-----	----

 $18^{\circ} 03'$

4	5	7	6	5	7
---	---	---	---	---	---

4 56 + 74 15° 43'

4 56 5 27

$$455 + 64 \quad 24^{\circ} 10'$$

55- 20 56

 $453 + 24 = 67, 49$

4 53 76° 57'

$$52 + 73 \quad 88^{\circ} 13'$$
$$452 + 42 \quad 101^{\circ} 32'$$

$\sigma = 174 + 60.6$ of P.B.

21 12⁰ 12

19 . 15° 28'

17 32 27

16 50° 43'

4 15-431 19° 32'

14 $100^{\circ} 19'$

 $13 + 72 \quad 101^{\circ} 28'$

13 111° 55'

12 53° 47'

11 + 90 9° 32'

4	11	4 ⁰	92
---	----	----------------	----

4. 9 11.5° 41'

140 Contour in Canyon A.

Sta. Left Right

1 94° 09'

0 = 18 + 02³18 + 02³ = 0 of 140 ft contour

17

16

15

14

13

12 + 20

4° 30'

11

10

9

8

7

6

5

4

3

2

1

0 = 207 102° 00'

Starting from sta. 207 south boundary
 of park backright to 115 " "
 turned 102° 00' left

140 Linton in Canyon A

Sta. Left Right

19	1° 49'	
18	8° 32'	
17	20° 39'	
16+37	111° 39'	
16	112° 13'	
15+59	112° 43'	
15	115° 15'	
14+64	116° 40'	
14	116° 09'	
13	117° 53'	
12	118° 25'	
11	121° 07'	
10	125° 45'	
9	129° 30'	
8	132° 6'	
7	134° 40'	
6	71° 39'	
5	78° 34'	
4	73° 47'	
3	83° 11'	
2	81° 56'	

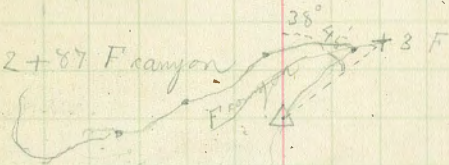
Entrance to D Δ canyon

140 contour in Canyon st.

Sta. Left Right

30		36° 08'
29+59		26° 42'
29		21° 45'
28+68	111° 02'	
28	93° 45'	
27	46° 57'	
26+76	2° 10'	
26		36° 12'
25+32		48° 44'
25		38° 55'
24+68	13° 02'	
24+31	14° 14'	
24	10° 18'	
23+63	4° 25'	
23+35	2° 53'	
23		1° 15'
22		21° 25'
21+90		25° 06'
21		23° 45'
20+39		43° 28'
20	2° 20'	

26 = 2+87 F canyon



Entrance to F branch of D canyon

5.15

140 Contain in canyon A + branches

 $44 + 53 = 38^{\circ} 59'$

44 13 46

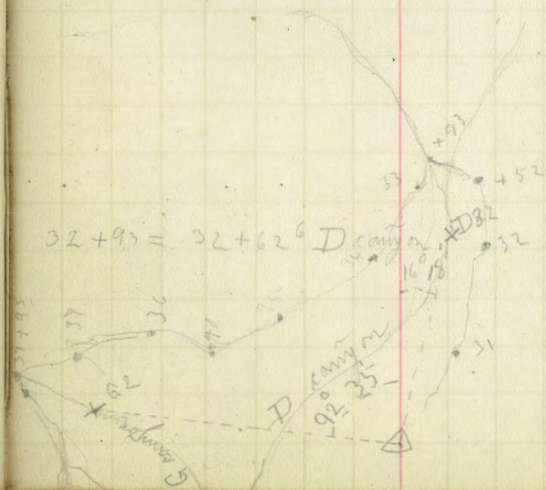
 $37 + 93$ $90^\circ 20'$

35 + 40 75 49

34	5 20
----	------

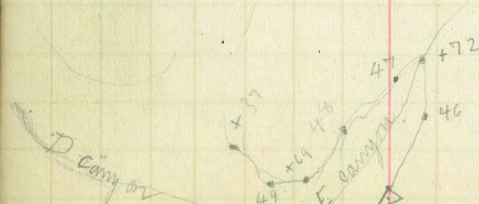
32 + 52 16 07

Entrance to E branch



Sta. Left Right

56		35° 05'
55+87		64° 43'
55+44		25° 06'
55		22° 39'
54		19° 42'
53+71	45° 08'	
53	42° 35'	
52+52	35° 51'	
52	13° 26'	
51		47° 20'
50+83		57° 57'
50		47° 34'
49+89		27° 01'
49+37	69° 47'	
49	71° 04'	
48+69	69° 22'	
48	38° 18'	
47		00° 41'
46+72		9° 01'
46		10° 32'
45		58° 17'

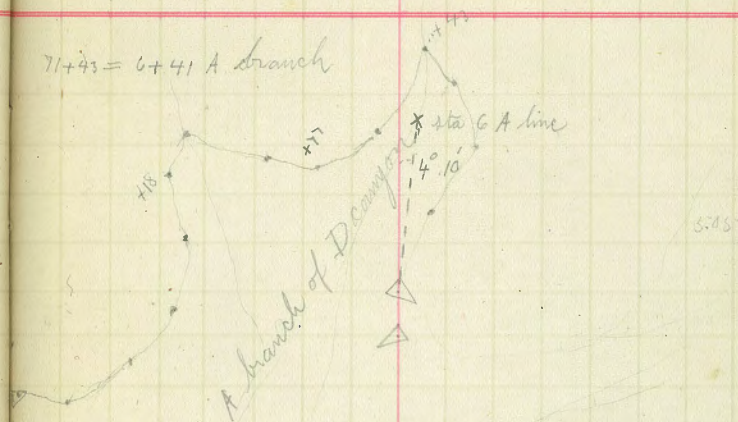


140 bottom in canyon A + branches

Sta Left Right

71+43		4° 28'
71		8° 27'
70		14° 50'
69		13° 14'
68		106° 30'
67+36	83° 16'	
67	84° 20'	
66	77° 47'	
65	69° 37'	
64	59° 52'	
63+59	53° 21'	
63	36° 25'	
62+62	22° 53'	
62	2° 34'	
61	14° 50'	
60	26° 59'	
59+58	30° 41'	
59	33° 12'	
58	37° 57'	
57	44° 31'	
56+70	42° 04'	

71+43 = 6+41 A branch



59+58 = 8+19 C branch



Sta. Left Right

89	13° 28'
88	19° 02'
87	24° 07'
86	26° 34'
85	22° 15'
84+83	43° 58'
84	33° 30'
83	67° 31'
82	64° 54'
81	69° 03'
80	63° 28'
79	79° 21'
78	79° 48'
77	72° 36'
76	57° 13'
75	39° 38'
74+18	31° 23'
74	29° 02'
73	23° 16'
72+77	19° 44'
72	4° 13'



5700



140 ft Canyon in canyon A + branches

Sta Left Right

102+64	2° 30'
102	00° 14'
101	18° 29'
100+42	42° 25'
100	24° 30'
99+80	10° 05'
99	12° 14'
98	20° 51'
97+41	2° 30'
97	2° 00'
96+69	1° 31'
96	9° 35'
95+57	18° 24'
95	26° 45'
94+47	33° 17'
94	41° 42'
93	54° 32'
92	75° 07'
91	57° 44'
90	49° 03'
89+65	13° 22'

Ran light on 89-90 and closed to Sta 100



H canyon



4.98

4.93

Sta. Left Right

117+61 7° 43'

117 3° 43'

116+44 7° 16'

116 5° 14'

115 24° 01'

114+76 39° 53'

114 30° 09'

113+66 117° 54'

113 116° 43'

112 99° 44'

111 57° 50'

110 31° 20'

109 25° 00'

108 20° 17'

107+60 17° 13'

107 14° 45'

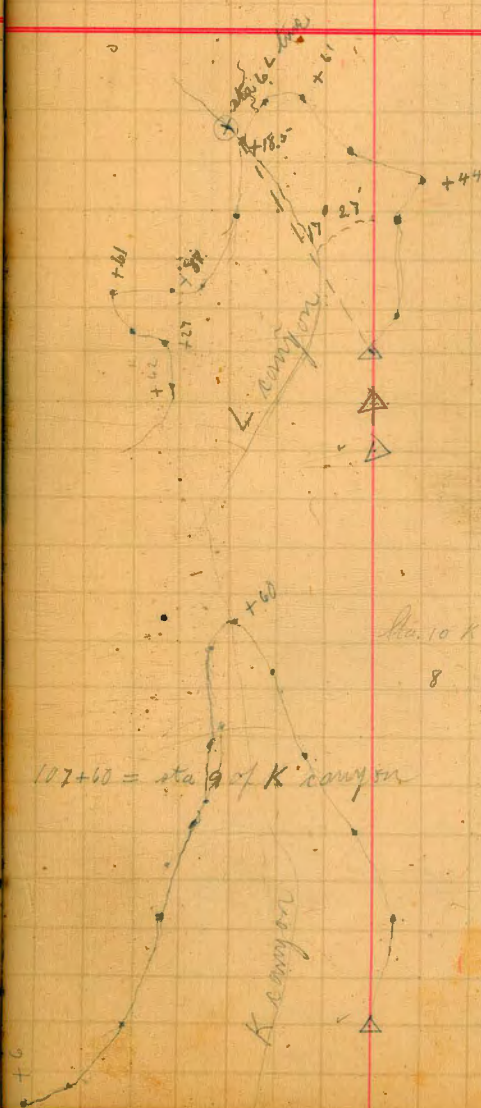
106 12° 16'

105 2° 46'

104 11° 48'

103+16 18° 45'

103 15° 21'



Sta. Left Right

129		21° 07'
128		44° 30'
127+87		46° 41'
127+59		82° 57'
127		58° 25'
126		55° 28'
125		24° 22'
124+50		14° 38'
124		18° 52'
123	78° 39'	
122+45	80° 52'	
122	76° 05'	
121+62	74° 00'	
121+27	64° 34'	
121	63° 29'	
120+61	53° 57'	
120	53° 37'	
119+87	57° 25'	
119	29° 14'	
118+18.5	17° 26'	
118	18° 48'	

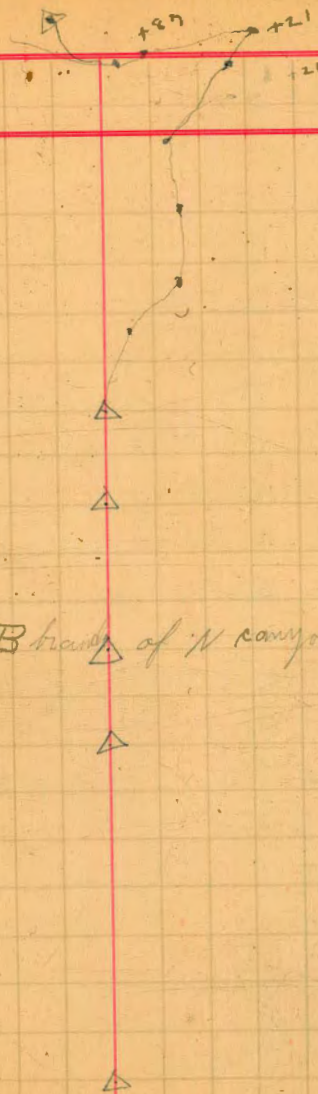


118+18.5 = 5+96 L canyon

140 Contour
Sta Left Right

141+63	14° 37'
141	16° 36'
140	22° 41'
139+68	14° 20'
139+32	37° 07'
139	33° 47'
138+19	12° 18'
138	11° 01'
137	6° 59'
136+53	33° 13'
136	23° 32'
135+58	44° 29'
135	46° 24'
134+48	48° 38'
134	61° 08'
133	88° 22'
132+80	96° 44'
132	81° 10'
131+41	17° 41'
131	2° 08'
130	5° 06'

Entrance to B branch of N canyon



Sta. Left Right

153	79° 30	
152+78	69° 12	
152+52	63° 38	
152	27° 00	
151	8° 11	
151	21° 43	
149+46	62° 50	
149	55° 33	
148+73	22° 41	
148	25° 09	
147+54	30° 00	
147	26° 58	
146+70	175° 04	
146	178° 59	
145	115° 42	
144+49	33° 17	
144	4° 46	
143	5° 00	
142+87	7° 21	
142+21	20° 53	
142	19° 11	



Sta. Left Right

167		30° 58'
166+57		30° 12'
166		38° 15'
165+90		39° 15'
165		39° 30'
164		39° 16'
163		30° 41'
162+67	1° 20'	
162	1° 55'	
161		00° 18'
160		6° 50'
159+60		21° 35'
159		92° 34'
158		91° 30'
157+19	125° 47'	
157	127° 43'	
156	124° 37'	
155+72	124° 57'	
155	114° 22'	
154+64	127° 07'	
154	120° 18'	

165+90 = 4+27 F Canyon

N Canyon

E channel

+57

+90

4+20 4. F line

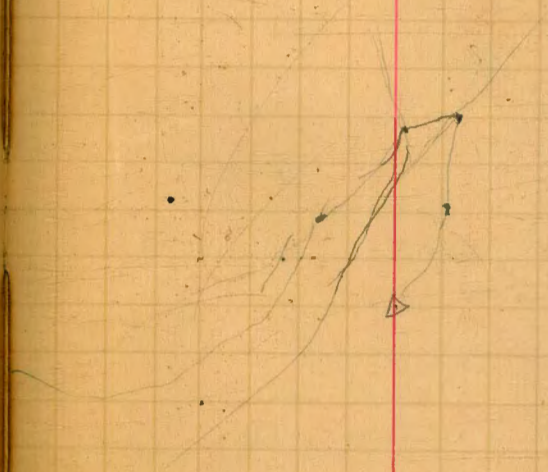
Δ

Δ

5.05

4.80

Sta.	Left	Right
183		15° 42'
182		12° 36'
181+53		21° 45'
181		22° 44'
180		20° 56'
179	157° 41'	
178	158° 23'	
177	152° 01'	
176	136° 14'	
175	67° 52'	
174		2° 12'
173+67		18° 28'
173		20° 53'
172+50	45° 24'	
172	46° 00'	
171	45° 18'	
170+67	45° 34'	
170	43° 10'	
169+36	40° 20'	
169	25° 06'	
168		12° 56'



87.5

Sta.	Left	Right
198		46° 24'
197		28° 38'
196		10° 06'
195		45° 57'
194		47° 38'
193		60° 08'
192		49° 40'
191+77		46° 21'
191		37° 24'
190		39° 18'
189		24° 47'
188+49	36° 57'	
188	37° 36'	
187	34° 39'	
186+45	29° 52'	
186	11° 37'	
185+48		17° 57'
185		32° 56'
184+44		26° 44'
184		23° 48'
183+43		18° 08'



5.13

4.9

Sta.	Left	Right
------	------	-------

211		43° 13'
210+63		19° 51'
210		17° 25'
209+62		47° 01'
209		40° 12'
208+30	127° 46'	
208	128° 51'	
207	128° 00'	
206	106° 57'	
205+57	89° 33'	
205	73° 00'	
204	55° 16'	
203+80	52° 20'	
203	48° 51'	
202+23	43° 33'	
202	34° 06'	
201		18° 08'
200+81		25° 53'
200		33° 58'
199+48		44° 41'
199		44° 24'

Entrance to R Δ canyon



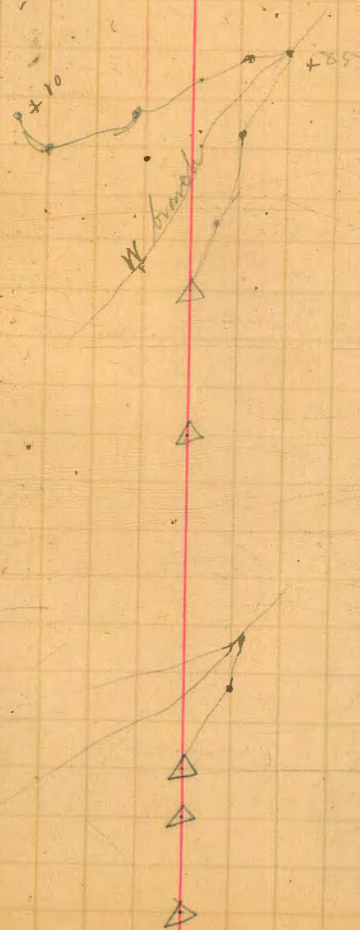
228	7° 58'
227	19° 27'
226+80	22° 59'
226	20° 02'
225	17° 12'
224+75	13° 41'
224	1° 37'
223+74	5° 59'
223	13° 09'
222	20° 59'
221	26° 04'
220	28° 18'
219	29° 34'
218+50	31° 36'
218	31° 04'
217	32° 40'
216	37° 27'
215	37° 56'
214	36° 57'
213	38° 23'
212	41° 49'

$$218+50 = 269 + 10 R \text{ canyon}$$

140 contour in canyon A & Bando

Sta. Left Right

242	1° 58'	
241	14° 25'	
240+89	17° 14'	
240	16° 52'	
239	17° 55'	
238+55	59° 48'	
238	44° 05'	
237	42° 57'	
236	48° 48'	
235+18	110° 19'	
235	111° 33'	
234+39	104° 14'	
234	84° 32'	
233	17° 45'	
232+20	23° 35'	
232	24° 14'	
231	32° 21'	
230+50	41° 56'	
230	24° 43'	
229+79	2° 10'	
229	00° 02'	



Sta. Left Right

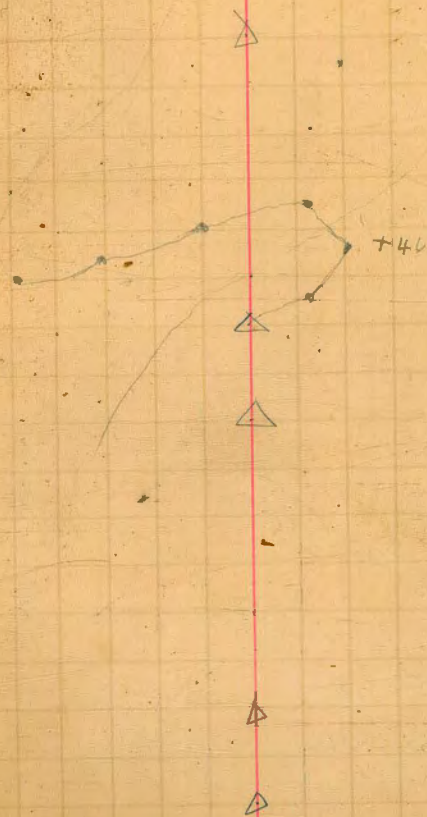
22	31° 35'	
21+23	12° 36'	
21	2° 41'	
20+82	13° 32'	
20+40	30° 36'	
20	38° 49'	
19	47° 49'	
18+45	59° 57'	
18	143° 39'	
17	142° 46'	
16+82	143° 46'	
16	143° 22'	
15	142° 34'	
14+63	142° 20'	
14	140° 52'	
13	137° 51'	
12	136° 06'	
11+54	134° 40'	
11	130° 12'	
10	121° 45'	
9+80	120° 19'	



140 Bottom line in canyon A

Sta. Left Right

36		70° 02'
35+66		103° 36'
35	64° 28'	
34	58° 25'	
33	16° 43'	
32		31° 12'
31+46		56° 15'
31		62° 03'
30+35		94° 23'
30		59° 43'
29+67	1° 50'	
29	3° 10'	
28		00° 58'
27		17° 37'
26+30		43° 50'
26		43° 00'
25+62		23° 52'
25		24° 46'
24+25	92° 35'	
24	93° 57'	
23	70° 50'	



140 Canton

Sta. Left Right

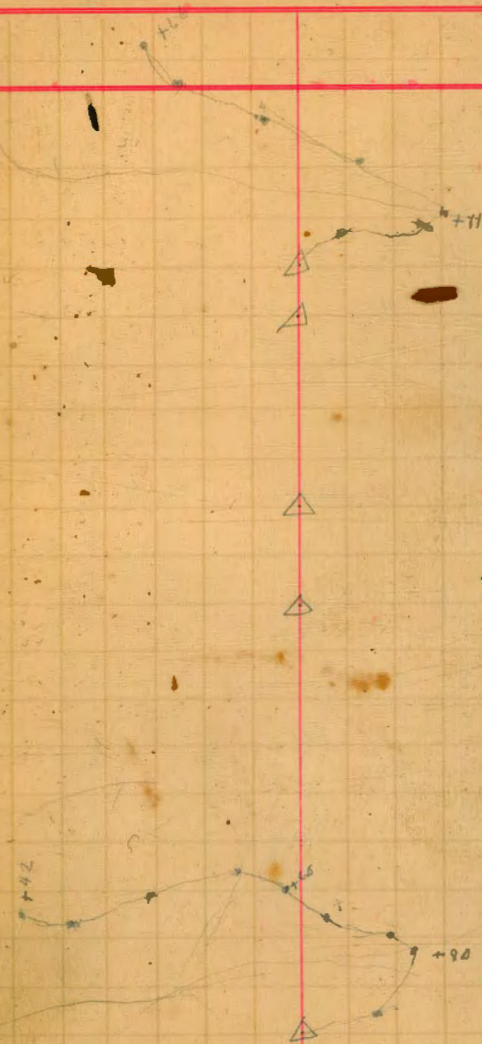
49+36	28° 43'	
49	28° 24'	
48	31° 47'	
47	35° 51'	
46	37° 02'	
45+40	147° 28'	
45	148° 31'	
44	137° 10'	
43	117° 13'	
42	96° 01'	
41+72	91° 10'	
41	87° 14'	
40+93	86° 47'	
40	81° 03'	
39+30	48° 02'	
39	36° 45'	
38+75	24° 50'	
38	22° 09'	
37+85	30° 24'	
37	21° 30'	
36+80	66° 54'	



140 contours in canyon d. & branches

Sta. Left Right

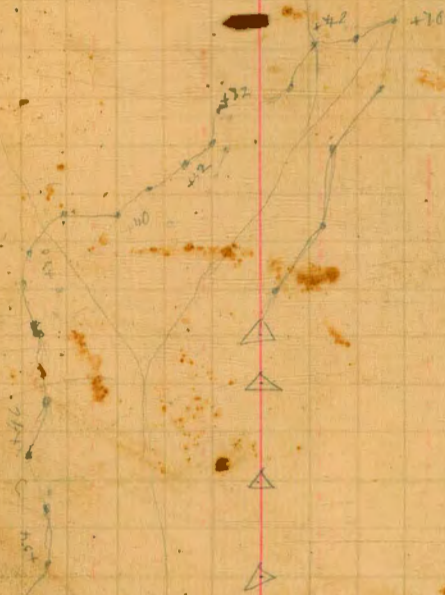
62+11		53° 09'
62		53° 22'
61		48° 41'
60+68		42° 05'
60+25		8° 30'
60		8° 00'
59		7° 03'
58		11° 40'
57+61		20° 37'
57		19° 20'
56+42	50° 40'	
55	49° 52'	
55	36° 30'	
54	10° 57'	
53+60	1° 46'	
53	14° 30'	
52	54° 10'	
51+90	57° 25'	
51	76° 22'	
50+25	46° 38'	
50	34° 30'	
49+80	28° 10'	



140 Lantain

"Chick Survey"

Sta.	Left	Right		Left	Right
75+40	27° 20'			37° 16'	
75	14° 27'			24° 33'	
74+35	4° 07'			16° 44'	
74	00° 16'			12° 55'	
73+72	0° 59'			11° 35'	
73	12° 23'			0° 30'	
72+42	16° 13'			3° 24'	
72	21° 38'			9° 21'	
71+70	25° 43'	Intersection 6+75 on Curve		12° 31'	
71	26° 46'			14° 10'	
70	25° 39'			12° 38'	
69	28° 57'			14° 42'	
68	28° 45'			15° 17'	
67+66	24° 40'			24° 40'	
67+22	27° 49'			27° 49'	
67	23° 02'			25° 31'	
66+53	60° 10'				
66	50° 33'				
65+66	28° 04'				
65	26° 43'				
64	9° 35'				
63	19° 13'				



"Chuck Swamy"

$$\begin{array}{r} 72.37 \\ - 1.21 \\ \hline 71.16 \end{array}$$

Sta	Left	Right
107		73° 42'
106		77° 18'
105		72° 58'
104		68° 36'
103		75° 00'
102		40° 55'
101+27		5° 38'
101		1° 17'
100	65° 07'	
99	67° 01'	
98	66° 26'	
97	66° 04'	
96	65° 34'	
95	63° 10'	
94	61° 23'	
93	48° 37'	
92	28° 34'	
91+75	24° 29'	
91	3° 14'	
90		24° 06'
89+20		54° 34'

140 Contour in canyon A. + branches

Sta Left Right

124	22° 02'	
120+48	14° 00'	
120	11° 40'	
119+23	8° 00'	
119	7° 13'	
118	13° 18'	
117+70	11° 54'	
117	11° 20'	
116+25	7° 20'	
116	6° 36'	
115	6° 53'	
114+65	6° 18'	
114	00° 50'	
113+40	3° 36'	
113	7° 40'	
112+32	4° 25'	
112	6° 03'	
111	9° 56'	
110+65	10° 30'	
110	16° 54'	
109	15° 13'	
108	75° 11'	

X hnd West boundary of park



Sta	Left	Right				
122+10	40° 41'					
122	38° 36'					

122+10 includes 206+35 x km

S

122 +

122

$$\begin{array}{r} 30.29 \\ 15.01 \\ \hline 15.28 \end{array}$$

$$\begin{array}{r} 30.29 \\ 13.46 \\ \hline 13.03 \end{array}$$

$$\begin{array}{r} 30.29 \\ 11.20 \\ \hline 41.49 \end{array}$$

$$\begin{array}{r} 30.29 \\ .47 \\ \hline 29.82 \end{array}$$

$$\begin{array}{r} 30.29 \\ 16.14 \\ \hline 46.43 \end{array}$$

$$\begin{array}{r} 30.29 \\ 14.31 \\ \hline 44.60 \end{array}$$

$$\begin{array}{r} 30.29 \\ 13.59 \\ \hline 43.88 \end{array}$$

TRAVERSE TABLE FOR TRANSIT BOOK, From 1° to 90° for a distance of 100.

Degrees.	DEGREES.		% DEGREE.		% DEGREE.		% DEGREE.		Degrees.
	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	
0			100.00	0.44	100.00	0.87	99.99	1.31	81
1	99.98	1.75	99.98	2.18	99.97	2.62	99.95	3.05	82
2	99.94	3.49	99.92	3.93	99.91	4.36	99.88	4.80	83
3	99.86	5.23	99.84	5.67	99.81	6.10	99.79	6.54	84
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	86
6	99.45	10.45	99.41	10.89	99.36	11.32	99.31	11.75	87
7	99.25	12.19	99.20	12.62	99.14	13.05	99.09	13.49	88
8	99.03	13.92	98.97	14.35	98.90	14.78	98.84	15.21	89
9	98.77	15.64	98.70	16.07	98.63	16.50	98.56	16.93	90
10	98.48	17.36	98.40	17.79	98.33	18.22	98.25	18.65	71
11	98.16	19.08	98.08	19.51	97.99	19.94	97.90	20.36	72
12	97.81	20.79	97.72	21.22	97.63	21.64	97.53	22.07	73
13	97.44	22.50	97.34	22.92	97.24	23.34	97.13	23.77	74
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	76
16	96.13	27.56	96.00	27.98	95.88	28.40	95.76	28.82	77
17	95.63	29.24	95.50	29.65	95.37	30.07	95.24	30.49	78
18	95.11	30.90	94.97	31.32	94.83	31.73	94.69	32.14	79
19	94.55	32.56	94.41	32.97	94.26	33.38	94.12	33.79	80
20	93.97	34.20	93.82	34.61	93.67	35.02	93.51	35.43	61
21	93.36	35.84	93.20	36.24	93.04	36.65	92.88	37.06	62
22	92.72	37.46	92.55	37.86	92.39	38.27	92.22	38.67	63
23	92.05	39.07	91.88	39.47	91.71	39.87	91.53	40.27	64
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	66
26	89.88	43.84	89.69	44.23	89.49	44.62	89.30	45.01	67
27	89.10	45.40	88.90	45.79	88.70	46.17	88.50	46.56	68
28	88.29	46.95	88.09	47.33	87.88	47.72	87.67	48.10	69
29	87.46	48.48	87.25	48.86	87.04	49.24	86.82	49.62	70
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.	DEGREES.		% DEGREE.		% DEGREE.		% DEGREE.		Degrees.
	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	Dep.	Lat.	

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