

TABLE I
DEFLECTIONS AND CHORDS FOR RADIUS CURVES

Radius Ft.	Deflections for Arcs of				Chords for Arcs of		
	1 Ft. Min.	25 Ft. Deg. Min.	50 Ft. Deg. Min.	100 Ft. Deg. Min.	25 Ft.	50 Ft.	100 Ft.
30	57.296	23 52.39	47 44.79		24.28	44.41	
40	42.972	17 54.30	35 48.59		24.60	46.81	
50	34.377	14 19.94	28 38.87		24.74	47.94	
60	28.648	11 56.20	23 52.39		24.82	48.57	
70	24.555	10 13.88	20 27.77		24.87	48.94	
80	21.486	8 57.15	17 54.30		24.90	49.19	
90	19.099	7 57.46	15 54.93		24.92	49.36	
100	17.189	7 09.72	14 19.44		24.93	49.48	
110	15.626	6 30.65	13 01.31		24.95	49.57	
120	14.324	5 58.10	11 56.20		24.95	49.64	
130	13.222	5 30.55	11 01.11		24.96	49.69	
140	12.278	5 06.94	10 13.88		24.97	49.74	
150	11.459	4 46.48	9 32.96	19 05.92	24.97	49.77	98.16
160	10.743	4 28.57	8 57.15	17 54.30	24.97	49.80	98.38
170	10.111	4 12.78	8 25.55	16 51.10	24.98	49.82	98.56
180	9.549	3 58.73	7 57.46	15 54.92	24.98	49.84	98.72
190	9.047	3 46.17	7 32.34	15 04.67	24.98	49.86	98.85
200	8.594	3 34.86	7 09.72	14 19.44	24.98	49.87	98.96
210	8.185	3 24.63	6 49.26	13 38.51	24.99	49.88	99.06
220	7.813	3 15.33	6 30.65	13 01.31	24.99	49.89	99.14
230	7.473	3 06.83	6 13.67	12 27.34	24.99	49.90	99.21
240	7.162	2 59.05	5 58.10	11 56.20	24.99	49.91	99.28
250	6.876	2 51.89	5 43.77	11 27.55	24.99	49.92	99.33
260	6.611	2 45.28	5 30.55	11 01.11	24.99	49.92	99.39
270	6.366	2 39.15	5 18.31	10 36.62	24.99	49.93	99.43
280	6.139	2 33.47	5 06.94	10 13.88	24.99	49.93	99.47
290	5.927	2 28.18	4 56.36	9 52.71	24.99	49.94	99.50
300	5.730	2 23.24	4 46.48	9 32.96	24.99	49.94	99.54
310	5.545	2 18.62	4 37.24	9 14.48	24.99	49.95	99.57
320	5.371	2 14.29	4 28.57	8 57.15	24.99	49.95	99.59
330	5.209	2 10.22	4 20.44	8 40.87	24.99	49.95	99.62
340	5.056	2 06.39	4 12.78	8 25.55	24.99	49.96	99.64
350	4.911	2 02.78	4 05.55	8 11.11	25.00	49.96	99.66
360	4.775	1 59.37	3 58.73	7 57.46	25.00	49.96	99.68
370	4.646	1 56.14	3 52.28	7 44.56	25.00	49.96	99.70
380	4.523	1 53.08	3 46.17	7 32.34	25.00	49.96	99.71
390	4.407	1 50.19	3 40.37	7 20.74	25.00	49.97	99.73
400	4.297	1 47.43	3 34.86	7 09.72	25.00	49.97	99.74
410	4.193	1 44.81	3 29.62	6 59.24	25.00	49.97	99.75
420	4.093	1 42.31	3 24.63	6 49.26	25.00	49.97	99.76
430	3.997	1 39.93	3 19.87	6 39.74	25.00	49.97	99.77
440	3.907	1 37.66	3 15.13	6 30.65	25.00	49.97	99.78
450	3.820	1 35.49	3 10.99	6 21.97	25.00	49.97	99.79
460	3.737	1 33.42	3 06.83	6 13.67	25.00	49.98	99.80
470	3.657	1 31.43	3 02.86	6 05.72	25.00	49.98	99.81

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	1 Ft. Min.	25 Ft. Deg. Min.	50 Ft. Deg. Min.	100 Ft. Deg. Min.	25 Ft.	50 Ft.	100 Ft.
480	3.581	1 29.52	2 59.05	5 58.10	25.00	49.98	99.82
490	3.508	1 27.70	2 55.40	5 50.79	25.00	49.98	99.83
500	3.438	1 25.94	2 51.89	5 43.77	25.00	49.98	99.83
510	3.370	1 24.26	2 48.52	5 37.03	25.00	49.98	99.84
520	3.306	1 22.64	2 45.28	5 30.55	25.00	49.98	99.85
530	3.243	1 21.08	2 42.16	5 24.32	25.00	49.98	99.85
540	3.183	1 19.58	2 39.15	5 18.31	25.00	49.98	99.86
550	3.125	1 18.13	2 36.26	5 12.52	25.00	49.98	99.86
560	3.069	1 16.74	2 33.47	5 06.94	25.00	49.98	99.87
570	3.016	1 15.39	2 30.78	5 01.56	25.00	49.98	99.87
580	2.964	1 14.09	2 28.18	4 56.36	25.00	49.99	99.88
590	2.913	1 12.84	2 25.67	4 51.33	25.00	49.99	99.88
600	2.8648	1 11.62	2 23.24	4 46.48	25.00	49.99	99.88
700	2.4555	1 01.39	2 02.78	4 05.55	25.00	49.99	99.91
800	2.1486	0 53.71	1 47.43	3 34.86	25.00	49.99	99.93
900	1.9099	0 47.75	1 35.49	3 11.00	25.00	49.99	99.95
1000	1.7189	0 42.97	1 25.94	2 51.89	25.00	49.99	99.96
1100	1.5626	0 39.07	1 18.13	2 36.26	25.00	49.99	99.97
1200	1.4324	0 35.81	1 11.62	2 23.24	25.00	49.99	99.97
1300	1.3222	0 33.06	1 06.11	2 12.22	25.00	49.99	99.97
1400	1.2278	0 30.69	1 01.39	2 02.78	25.00	49.99	99.98
1500	1.1459	0 28.65	0 57.30	1 54.59	25.00	49.99	99.98
1600	1.0743	0 26.86	0 53.71	1 47.43	25.00	49.99	99.98
1700	1.0111	0 25.28	0 50.56	1 41.11	25.00	50.00	99.99
1800	0.95493	0 23.87	0 47.75	1 35.49	25.00	50.00	99.99
1900	0.90467	0 22.62	0 45.23	1 30.47	25.00	50.00	99.99
2000	0.85944	0 21.49	0 42.97	1 25.94	25.00	50.00	99.99
2100	0.81851	0 20.46	0 40.93	1 21.85	25.00	50.00	99.99
2200	0.78131	0 19.53	0 39.07	1 18.13	25.00	50.00	99.99
2300	0.74734	0 18.68	0 37.37	1 14.73	25.00	50.00	99.99
2400	0.71620	0 17.90	0 35.81	1 11.62	25.00	50.00	99.99
2500	0.68755	0 17.19	0 34.38	1 08.75	25.00	50.00	99.99
2600	0.66111	0 16.53	0 33.06	1 06.11	25.00	50.00	99.99
2700	0.63662	0 15.92	0 31.83	1 03.66	25.00	50.00	99.99
2800	0.61388	0 15.35	0 30.69	1 01.39	25.00	50.00	99.99
2900	0.59271	0 14.82	0 29.64	0 59.27	25.00	50.00	100.00
3000	0.57296	0 14.32	0 28.65	0 57.30	25.00	50.00	100.00
3100	0.55448	0 13.86	0 27.72	0 55.45	25.00	50.00	100.00
3200	0.53715	0 13.43	0 26.86	0 53.71	25.00	50.00	100.00
3300	0.52087	0 13.02	0 26.04	0 52.09	25.00	50.00	100.00
3400	0.50555	0 12.64	0 25.28	0 50.56	25.00	50.00	100.00
3500	0.49111	0 12.28	0 24.56	0 49.11	25.00	50.00	100.00
3600	0.47746	0 11.94	0 23.87	0 47.75	25.00	50.00	100.00
3700	0.46456	0 11.61	0 23.23	0 46.46	25.00	50.00	100.00
3800	0.45234	0 11.31	0 22.62	0 45.23	25.00	50.00	100.00

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	1 Ft. Min.	25 Ft. Deg. Min.	50 Ft. Deg. Min.	100 Ft. Deg. Min.	25 Ft.	50 Ft.	100 Ft.
3900	0.44074	0 11.02	0 22.04	0 44.07			
4000	0.42972	0 10.74	0 21.49	0 42.97			
4100	0.41924	0 10.48	0 20.96	0 41.92			
4200	0.40926	0 10.23	0 20.46	0 40.93			
4300	0.39974	0 9.99	0 19.99	0 39.97			
4400	0.39065	0 9.77	0 19.53	0 39.07			
4500	0.38197	0 9.55	0 19.10	0 38.20			
4600	0.37367	0 9.34	0 18.68	0 37.37			
4700	0.36572	0 9.14	0 18.29	0 36.57			
4800	0.35810	0 8.95	0 17.90	0 35.81			
4900	0.35079	0 8.77	0 17.54	0 35.08			
5000	0.34377	0 8.59	0 17.19	0 34.38			
5100	0.33703	0 8.43	0 16.85	0 33.70			
5200	0.33055	0 8.26	0 16.53	0 33.06			
5300	0.32432	0 8.11	0 16.22	0 32.43			
5400	0.31831	0 7.96	0 15.92	0 31.83			
5500	0.31252	0 7.81	0 15.63	0 31.25			
5600	0.30694	0 7.67	0 15.35	0 30.69			
5700	0.30156	0 7.54	0 15.08	0 30.16			
5800	0.29636	0 7.41	0 14.82	0 29.64			
5900	0.29133	0 7.28	0 14.57	0 29.13			
6000	0.28648	0 7.16	0 14.32	0 28.65			
6100	0.28178	0 7.04	0 14.09	0 28.18			
6200	0.27724	0 6.93	0 13.86	0 27.72			
6300	0.27284	0 6.82	0 13.64	0 27.28			
6400	0.268574	0 6.71	0 13.43	0 26.86			
6500	0.264442	0 6.61	0 13.22	0 26.44			
6600	0.260435	0 6.51	0 13.02	0 26.04			
6700	0.256548	0 6.41	0 12.83	0 25.65			
6800	0.252775	0 6.32	0 12.64	0 25.28			
6900	0.249112	0 6.23	0 12.46	0 24.91			
7000	0.245553	0 6.14	0 12.28	0 24.56			
7100	0.242095	0 6.05	0 12.10	0 24.21			
7200	0.238732	0 5.97	0 11.94	0 23.87			
7300	0.235462	0 5.87	0 11.77	0 23.55			
7400	0.232280	0 5.81	0 11.61	0 23.23			
7500	0.229183	0 5.73	0 11.46	0 22.92			
7600	0.226168	0 5.65	0 11.31	0 22.62			
7700	0.223230	0 5.58	0 11.16	0 22.32			
7800	0.220368	0 5.51	0 11.02	0 22.04			
7900	0.217579	0 5.44	0 10.88	0 21.76			
8000	0.214859	0 5.37	0 10.74	0 21.49			
8100	0.212206	0 5.31	0 10.61	0 21.22			
8200	0.209618	0 5.24	0 10.48	0 20.96			
8300	0.207093	0 5.18	0 10.35	0 20.71			

Arc Length=
Chord Length

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Ra- dius Ft.	Deflections for Arcs of				Chords for Arcs of		
	1 Ft. Min.	25 Ft. Deg. Min.	50 Ft. Deg. Min.	100 Ft. Deg. Min.	25 Ft.	50 Ft.	100 Ft.
8400	0.204628	0 5.12	0 10.23	0 20.46			
8500	0.202220	0 5.06	0 10.11	0 20.22			
8600	0.199869	0 5.00	0 9.99	0 19.99			
8700	0.197571	0 4.94	0 9.88	0 19.76			
8800	0.195327	0 4.88	0 9.77	0 19.53			
8900	0.193132	0 4.83	0 9.66	0 19.31			
9000	0.190986	0 4.77	0 9.55	0 19.10			
9200	0.186834	0 4.67	0 9.34	0 18.68			
9400	0.182859	0 4.57	0 9.14	0 18.29			
9600	0.179049	0 4.48	0 8.95	0 17.90			
9800	0.175395	0 4.38	0 8.77	0 17.54			
10000	0.171887	0 4.30	0 8.59	0 17.19			
11000	0.156261	0 3.91	0 7.81	0 15.63			
12000	0.143239	0 3.58	0 7.16	0 14.32			
13000	0.132221	0 3.31	0 6.61	0 13.22			
14000	0.122777	0 3.07	0 6.14	0 12.28			
15000	0.114591	0 2.86	0 5.73	0 11.46			
16000	0.107429	0 2.69	0 5.37	0 10.74			
17000	0.101110	0 2.53	0 5.06	0 10.11			
18000	0.095493	0 2.39	0 4.77	0 9.55			
19000	0.090467	0 2.26	0 4.52	0 9.05			
20000	0.085944	0 2.15	0 4.30	0 8.59			
21000	0.081851	0 2.05	0 4.09	0 8.19			
22000	0.078131	0 1.95	0 3.91	0 7.81			
23000	0.074734	0 1.87	0 3.74	0 7.47			
24000	0.071620	0 1.79	0 3.58	0 7.16			
25000	0.068755	0 1.72	0 3.44	0 6.88			
26000	0.066110	0 1.65	0 3.31	0 6.61			
27000	0.063662	0 1.59	0 3.18	0 6.37			
28000	0.061388	0 1.53	0 3.07	0 6.14			
29000	0.059271	0 1.48	0 2.96	0 5.93			
30000	0.057296	0 1.43	0 2.86	0 5.73			
31000	0.055448	0 1.39	0 2.77	0 5.54			
32000	0.053715	0 1.34	0 2.69	0 5.37			
33000	0.052087	0 1.30	0 2.60	0 5.21			
34000	0.050555	0 1.26	0 2.53	0 5.06			
35000	0.049111	0 1.23	0 2.46	0 4.91			

Arc Length=
Chord Length