

18

				(2)	(4)	
x	y	$m = \frac{dy}{dx}$	ψ	$\sin \psi$	$\cos \psi$	$1953 \cos \psi \quad \frac{\pi^2 m \sin \psi}{32}$
0	0					
3.75	.195312	.1042	$5^\circ 57'$	.1037	.9946	
7.5	.78125	.2083	$11^\circ 46'$	.2039	.9790	$\rightarrow$
11.25	1.7578	.3125	$17^\circ 21'$	.2982	.9545	$\rightarrow$
15	3.1250	.4167	$22^\circ 37'$	.3846	.9231	$\rightarrow$
18.75	4.8828	.5208	$27^\circ 31'$	.4620	.8869	$\rightarrow$
22.5	7.0312	.6250	$32^\circ 14'$	.5294	.8480	$\rightarrow$
26.25	9.5703	.7292	$36^\circ 6'$	.5892	.8080	$\rightarrow$
30	12.5000	.8333	$39^\circ 48'$	.6401	.7683	$\rightarrow$

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X	Z	SLOPE	ANGLE	ARC	X'	-Z'	CURVR	CURVT	SIDE
1.0	.014	.02778	1.591	1.000		.471	36.042	36.014	.1
2.0	.056	.05556	3.180	2.001		.918	36.167	36.056	.2
3.0	.125	.08333	4.763	3.003		1.341	36.376	36.125	.3
4.0	.222	.11111	6.340	4.008		1.739	36.669	36.222	.4
5.0	.347	.13889	7.907	5.016		2.113	37.047	36.346	.5
6.0	.500	.16667	9.462	6.027		2.462	37.510	36.497	.6
7.0	.681	.19444	11.003	7.044		2.787	38.061	36.674	.7
8.0	.889	.22222	12.528	8.065		3.088	38.699	36.878	.8
9.0	1.125	.25000	14.036	9.093		3.368	39.427	37.108	1.0
9.75	1.320	.27083	15.154	10.125	9.852	3.551	.033	37.297	1.0
10.0	1.389	.27778	15.524	11.159	10.111	3.617	40.246	37.363	1.1
10.5	1.531	.29167	16.260	12.197		3.734	40.690	37.500	1.1
11.0	1.681	.30556	16.990	13.239		3.845	41.158	37.643	1.2
11.5	1.837	.31944	17.715	14.284		3.950	41.649	37.792	1.2
12.0	2.000	.33333	18.434	15.334		4.049	42.164	37.947	1.3
12.5	2.170	.34722	19.148	16.388		4.142	42.703	38.108	1.4
13.0	2.347	.36111	19.855	17.447		4.228	43.266	38.275	1.4
13.5	2.531	.37500	20.555	18.510		4.309	43.855	38.448	1.5
14.0	2.722	.38889	21.250	19.578		4.383	44.468	38.626	1.5
14.5	2.920	.40278	21.938	20.651	15.387	4.452	45.107	38.810	1.6
15.0	3.125	.41667	22.619	21.729		4.514	45.771	39.000	1.6
15.5	3.337	.43056	23.294	22.812		4.570	46.461	39.195	1.7
16.0	3.556	.44444	23.962	23.901		4.620	47.177	39.395	1.7
16.5	3.781	.45833	24.623	24.996		4.665	47.920	39.601	1.8
17.0	4.014	.47222	25.277	26.096		4.703	48.690	39.812	1.8
17.5	4.253	.48611	25.924	27.201		4.734	49.487	40.028	1.9
18.0	4.500	.50000	26.564	28.313		4.760	50.312	40.249	2.0
18.5	4.753	.51389	27.197	29.431		4.780	51.164	40.475	2.0
19.0	5.014	.52778	27.823	30.556		4.794	52.045	40.706	2.1
19.5	5.281	.54167	28.442	31.686	20.922	4.801	52.955	40.942	2.1
20.0	5.556	.55556	29.054	32.824		4.803	53.893	41.183	2.2
20.5	5.837	.56944	29.658	33.968		4.798	54.861	41.428	2.2
21.0	6.125	.58333	30.255	35.118		4.788	55.859	41.677	2.3
21.5	6.420	.59722	30.846	36.276		4.771	56.887	41.931	2.3
22.0	6.722	.61111	31.429	37.441		4.748	57.946	42.190	2.4
22.5	7.031	.62500	32.004	38.613		4.719	59.036	42.453	2.4
23.0	7.347	.63889	32.573	39.792		4.684	60.157	42.720	2.5
23.5	7.670	.65278	33.135	40.979		4.643	61.311	42.991	2.5
24.0	8.000	.66667	33.689	42.173		4.596	62.496	43.267	2.6
24.5	8.337	.68056	34.236	43.375	26.788	4.543	63.715	43.546	2.6
25.0	8.681	.69444	34.777	44.584		4.484	64.966	43.829	2.7
25.5	9.031	.70833	35.310	45.802		4.418	66.251	44.116	2.7
26.0	9.389	.72222	35.837	47.027		4.347	67.570	44.407	2.8
26.5	9.753	.73611	36.356	48.261		4.269	68.924	44.702	2.8
27.0	10.125	.75000	36.869	49.503		4.186	70.312	45.000	2.9
27.5	10.503	.76389	37.375	50.753		4.096	71.737	45.302	2.9
28.0	10.889	.77778	37.874	52.011		4.000	73.196	45.607	3.0
28.5	11.281	.79167	38.366	53.278		3.899	74.693	45.916	3.0
29.0	11.681	.80556	38.852	54.553		3.791	76.226	46.228	3.1
29.5	12.087	.81944	39.331	55.837	33.044	3.677	77.796	46.543	3.1
30.0	12.500	.83333	39.804	57.130		3.551	79.404	46.861	3.2