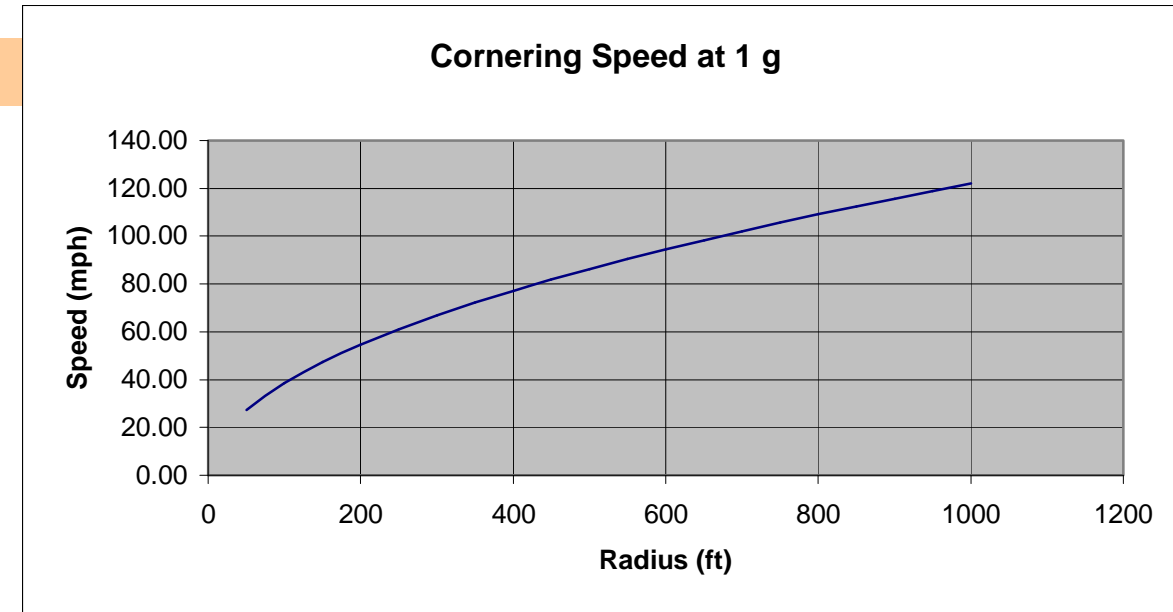


Radius (ft)	Cornering speed @ 1g in mph	Required Braking Distance (ft) @ 1g from 100 mph	Straight Distance (ft) prior to braking	Time (sec) in straight @ 100 mph prior to braking zone	Time (sec) in corner @ 180 degrees	Time (sec) in exit chute at 1/2 g accel.	Exit speed (mph)	Total time (sec) in segment
50	27.27	311.11	238.89	1.629	3.333	3.927	4.347	74.69
100	38.57	286.11	263.89	1.799	2.816	5.554	3.753	79.51
150	47.31	260.06	389.94	2.659	2.407	6.791	5.661	109.26
200	54.63	235.06	314.94	2.147	2.073	7.842	4.675	105.79
250	60.98	211.11	338.89	2.311	1.788	8.781	2.888	92.49
300	66.80	186.11	363.89	2.481	1.521	9.619	2.715	96.42
350	72.16	161.11	388.89	2.652	1.276	10.390	2.571	100.21
400	77.14	136.11	413.89	2.822	1.048	11.107	2.449	103.85
450	81.82	111.11	438.89	2.992	0.833	11.781	2.343	107.37
500	86.24	86.11	463.89	3.163	0.630	12.418	2.249	110.78
550	90.45	61.11	488.89	3.333	0.438	13.024	2.167	114.09
600	94.48	36.11	513.89	3.504	0.253	13.603	2.093	117.30
650	98.33	11.11	538.89	3.674	0.076	14.159	2.026	120.43
700	102.05							
750	105.63			1.46667	0.6818182			
800	109.09			2.15111	0.4648760			
850	112.45			32.1				
900	115.71			650				
950	118.88			200				
1000	121.97			100				



Start Speed (mph)	End Speed (mph)	Stopping Distance @ 1g (ft)	Inscribed Corner Radius (ft)	Alpha (deg)	h (ft)	Cornering speed @ 1g in mph	Required Braking Distance (ft) @ 1g from 100 mph	Straight Distance (ft) prior to braking	Time (sec) in straight @ 100 mph prior to braking zone	Time (sec) in corner prior to apex	Time (sec) in corner after apex	Time for entrance and complete corner	Exit speed from chute (mph) @ g/2 accel	Time in exit chute (sec)	Combined segment time	Combined time and exit-chute time	Combined pre-apex time and chute time	
100	5.00	334.23	150	90.00	0.00	47.31	260.06	389.94	2.659	2.407	6.791	0.000	11.857	109.261	5.661	17.518	5.661	11.857
100	30.00	304.91	151	73.90	14.14	47.47	259.56	376.29	2.566	2.400	6.204	0.609	11.780	108.360	5.564	17.344	6.174	11.170
100	55.00	233.71	152	67.38	20.00	47.63	259.06	370.94	2.529	2.393	5.977	0.859	11.758	108.025	5.519	17.278	6.378	10.899
100	80.00	120.62	153	62.47	24.49	47.78	258.56	366.94	2.502	2.386	5.810	1.049	11.746	107.783	5.483	17.229	6.532	10.698
100	105.00	-34.34	154	58.41	28.28	47.94	258.06	363.65	2.479	2.379	5.674	1.207	11.739	107.590	5.451	17.190	6.659	10.532
			155	54.90	31.62	48.09	257.56	360.81	2.460	2.372	5.557	1.346	11.735	107.428	5.422	17.157	6.768	10.389
			160	41.81	44.72	48.86	255.06	350.21	2.388	2.336	5.136	1.878	11.738	106.864	5.300	17.038	7.178	9.860
			165	32.58	54.77	49.62	252.56	342.66	2.336	2.302	4.850	2.272	11.761	106.511	5.199	16.959	7.471	9.489
			170	25.38	63.25	50.37	250.06	336.69	2.296	2.268	4.634	2.596	11.793	106.267	5.108	16.901	7.704	9.198
			175	19.47	70.71	51.10	247.56	331.73	2.262	2.234	4.461	2.874	11.831	106.094	5.025	16.856	7.899	8.957
			180	14.48	77.46	51.83	245.06	327.48	2.233	2.201	4.318	3.121	11.873	105.971	4.948	16.821	8.069	8.752
			185	10.16	83.67	52.54	242.56	323.77	2.208	2.168	4.197	3.345	11.918	105.886	4.875	16.792	8.220	8.573
			190	6.38	89.44	53.25	240.06	320.49	2.185	2.136	4.092	3.551	11.965	105.831	4.805	16.770	8.356	8.414
			195	3.02	94.87	53.94	237.56	317.57	2.165	2.104	4.001	3.742	12.013	105.801	4.739	16.751	8.481	8.271
			200	0.00	100.00	54.63	235.06	314.94	2.147	2.073	3.921	3.921	12.062	105.792	4.675	16.737	8.596	8.141

Inscribed Corner Radius (ft)	Alpha (deg)	h (ft)
150	90.00	0.00
151	73.90	14.14
152	67.38	20.00
153	62.47	24.49
154	58.41	28.28
155	54.90	31.62
160	41.81	44.72
165	32.58	54.77
170	25.38	63.25
175	19.47	70.71
180	14.48	77.46
185	10.16	83.67
190	6.38	89.44
195	3.02	94.87
200	0.00	100.00

Inscribed Corner Radius (ft)	Alpha (deg)	h (ft)	Cornering speed @ 1g in mph	Required Braking Distance (ft) @ 1g from 100 mph	Straight Distance (ft) prior to braking	Time (sec) in straight @ 100 mph prior to braking	Time (sec) in braking zone	Time (sec) in corner prior to apex	Total time (sec) up to the apex
150	90.00	0.00	47.24	261.11	388.89	2.652	2.418	6.802	11.872
151	73.90	14.14	47.39	260.61	375.25	2.559	2.411	6.214	11.184
152	67.38	20.00	47.55	260.11	369.89	2.522	2.404	5.987	10.912
153	62.47	24.49	47.71	259.61	365.89	2.495	2.397	5.819	10.710
154	58.41	28.28	47.86	259.11	362.60	2.472	2.390	5.682	10.544
155	54.90	31.62	48.02	258.61	359.77	2.453	2.382	5.566	10.401
160	41.81	44.72	48.79	256.11	349.17	2.381	2.347	5.144	9.872
165	32.58	54.77	49.54	253.61	341.62	2.329	2.313	4.858	9.500
170	25.38	63.25	50.29	251.11	335.64	2.288	2.278	4.641	9.208
175	19.47	70.71	51.02	248.61	330.68	2.255	2.245	4.468	8.968
180	14.48	77.46	51.75	246.11	326.43	2.226	2.212	4.325	8.762
185	10.16	83.67	52.46	243.61	322.72	2.200	2.179	4.203	8.583
190	6.38	89.44	53.16	241.11	319.45	2.178	2.147	4.099	8.424
195	3.02	94.87	53.86	238.61	316.52	2.158	2.115	4.008	8.280
200	0.00	100.00	54.55	236.11	313.89	2.140	2.083	3.927	8.150

Inscribed Corner Radius (ft)	Alpha (deg)	h (ft)	Cornering speed @ 1g in mph	Required Braking Distance (ft) @ 1g from 100 mph	Straight Distance (ft) prior to braking	Time (sec) in straight @ 100 mph prior to braking	Time (sec) in braking zone	Time (sec) in corner prior to apex	Time (sec) in corner after apex	Total time (sec) in the semi-circle	Time for entrance and complete corner	Exit speed (mph) @ g/2 accel	Time in exit chute (sec)	Combined segment time	Combined time and exit-chute time	Combined pre-apex entry-chute time
150	90.00	0.00	47.24	261.11	388.89	2.652	2.418	6.802	0.000	6.802	11.872	109.091	5.670	17.541	5.670	11.872
151	73.90	14.14	47.39	260.61	375.25	2.559	2.411	6.214	0.610	6.824	11.794	108.191	5.573	17.367	6.183	11.184

152	67.38	20.00	47.55	260.11	369.89	2.522	2.404	5.987	0.860	6.847	11.773	107.857	5.528	17.301	6.388	10.912
153	62.47	24.49	47.71	259.61	365.89	2.495	2.397	5.819	1.051	6.869	11.761	107.615	5.492	17.252	6.542	10.710
154	58.41	28.28	47.86	259.11	362.60	2.472	2.390	5.682	1.209	6.892	11.754	107.422	5.460	17.213	6.669	10.544
155	54.90	31.62	48.02	258.61	359.77	2.453	2.382	5.566	1.348	6.914	11.750	107.260	5.430	17.180	6.779	10.401
160	41.81	44.72	48.79	256.11	349.17	2.381	2.347	5.144	1.881	7.025	11.753	106.697	5.308	17.061	7.189	9.872
165	32.58	54.77	49.54	253.61	341.62	2.329	2.313	4.858	2.276	7.134	11.776	106.345	5.207	16.982	7.482	9.500
170	25.38	63.25	50.29	251.11	335.64	2.288	2.278	4.641	2.600	7.241	11.808	106.101	5.116	16.924	7.716	9.208
175	19.47	70.71	51.02	248.61	330.68	2.255	2.245	4.468	2.879	7.347	11.846	105.928	5.033	16.879	7.912	8.968
180	14.48	77.46	51.75	246.11	326.43	2.226	2.212	4.325	3.126	7.451	11.888	105.806	4.955	16.844	8.082	8.762
185	10.16	83.67	52.46	243.61	322.72	2.200	2.179	4.203	3.350	7.554	11.933	105.721	4.882	16.815	8.233	8.583
190	6.38	89.44	53.16	241.11	319.45	2.178	2.147	4.099	3.556	7.655	11.980	105.666	4.813	16.792	8.369	8.424
195	3.02	94.87	53.86	238.61	316.52	2.158	2.115	4.008	3.748	7.755	12.028	105.636	4.746	16.774	8.494	8.280
200	0.00	100.00	54.55	236.11	313.89	2.140	2.083	3.927	3.927	7.854	12.077	105.627	4.682	16.760	8.609	8.150

cornering

gs	accel gs	accel v(t)
1	0.000	47.23775
1	0.000	47.39495

t	a(t) (tangential, fpsps)	v ² /r (radial, fpsps)	a(t) (radial, fpsps)	r(t) (feet)	ax(t) (fpsps)	ay(t) (fpsps)	x(t) (feet)	y(t) (feet)	vx(t) (mph)	vy(t) (mph)	v (mph)	parameters
0.00	0.00	32.00	32.00	160.00	-21.33	23.85	66.67	-74.54	36.36	32.52	48.79	r0 100 feet
0.05	0.32	31.99	31.57	162.27	-21.33	23.27	69.28	-72.09	35.64	33.34	48.80	r_1 200 feet
0.10	0.64	31.97	31.14	164.68	-21.31	22.71	71.84	-69.59	34.91	34.13	48.82	r 160 feet
0.15	0.96	31.94	30.70	167.23	-21.26	22.17	74.35	-67.03	34.18	34.91	48.86	alpha 41.81 degrees
0.20	1.28	31.90	30.27	169.92	-21.20	21.64	76.80	-64.41	33.46	35.66	48.90	h 44.72 feet
0.25	1.60	31.84	29.84	172.77	-21.12	21.14	79.20	-61.74	32.74	36.40	48.95	w 100 feet
0.30	1.92	31.77	29.41	175.78	-21.01	20.66	81.55	-59.02	32.02	37.12	49.02	k 2.5 seconds
0.35	2.24	31.68	28.97	178.95	-20.89	20.20	83.84	-56.25	31.30	37.82	49.09	v0 48.79 mph
0.40	2.56	31.59	28.54	182.30	-20.76	19.75	86.09	-53.42	30.59	38.51	49.18	amax 16 fpsps
0.45	2.88	31.48	28.11	185.84	-20.61	19.33	88.28	-50.55	29.88	39.19	49.28	deltat 0.05 seconds
0.50	3.20	31.35	27.68	189.56	-20.44	18.93	90.42	-47.63	29.18	39.85	49.39	g 32 fpsps
0.55	3.52	31.22	27.24	193.50	-20.26	18.55	92.51	-44.66	28.48	40.49	49.50	k_unwind 3.70 seconds
0.60	3.84	31.06	26.81	197.64	-20.06	18.19	94.54	-41.64	27.79	41.12	49.63	
0.65	4.16	30.90	26.38	202.01	-19.86	17.85	96.53	-38.58	27.11	41.74	49.77	
0.70	4.48	30.72	25.95	206.62	-19.64	17.54	98.47	-35.48	26.43	42.35	49.92	
0.75	4.80	30.53	25.51	211.47	-19.41	17.24	100.36	-32.33	25.76	42.95	50.08	
0.80	5.12	30.32	25.08	216.59	-19.17	16.96	102.20	-29.13	25.10	43.54	50.25	
0.85	5.44	30.09	24.65	221.99	-18.92	16.70	103.99	-25.90	24.44	44.12	50.43	
0.90	5.76	29.85	24.22	227.68	-18.67	16.47	105.74	-22.62	23.80	44.69	50.63	
0.95	6.08	29.60	23.78	233.68	-18.40	16.25	107.44	-19.30	23.16	45.25	50.83	
1.00	6.40	29.33	23.35	240.01	-18.13	16.05	109.09	-15.94	22.53	45.80	51.04	
1.05	6.72	29.04	22.92	246.70	-17.85	15.87	110.70	-12.55	21.92	46.35	51.27	
1.10	7.04	28.74	22.49	253.75	-17.56	15.71	112.26	-9.11	21.31	46.89	51.50	
1.15	7.36	28.41	22.05	261.20	-17.27	15.57	113.78	-5.63	20.71	47.42	51.75	
1.20	7.68	28.07	21.62	269.07	-16.97	15.45	115.25	-2.11	20.12	47.96	52.01	
1.25	8.00	27.71	21.19	277.39	-16.66	15.34	116.69	1.44	19.54	48.48	52.27	
1.30	8.32	27.33	20.76	286.19	-16.35	15.25	118.08	5.04	18.97	49.00	52.55	
1.35	8.64	26.93	20.32	295.49	-16.04	15.18	119.43	8.67	18.42	49.52	52.84	
1.40	8.96	26.51	19.89	305.34	-15.72	15.13	120.74	12.34	17.87	50.04	53.14	
1.45	9.28	26.07	19.46	315.78	-15.40	15.09	122.01	16.05	17.33	50.56	53.45	
1.50	9.60	25.60	19.03	326.84	-15.07	15.07	123.24	19.79	16.81	51.07	53.77	
1.55	9.92	25.11	18.59	338.57	-14.74	15.06	124.44	23.57	16.30	51.59	54.10	
1.60	10.24	24.59	18.16	351.03	-14.41	15.07	125.59	27.39	15.79	52.10	54.44	
1.65	10.56	24.04	17.73	364.26	-14.08	15.09	126.72	31.25	15.30	52.61	54.79	
1.70	10.88	23.46	17.30	378.34	-13.74	15.13	127.80	35.15	14.82	53.13	55.16	
1.75	11.20	22.85	16.86	393.32	-13.40	15.18	128.86	39.08	14.35	53.64	55.53	
1.80	11.52	22.21	16.43	409.28	-13.05	15.24	129.88	43.05	13.90	54.16	55.92	
1.85	11.84	21.52	16.00	426.31	-12.71	15.32	130.86	47.06	13.45	54.68	56.31	
1.90	12.16	20.80	15.57	444.50	-12.36	15.41	131.82	51.11	13.02	55.20	56.72	
1.95	12.48	20.02	15.14	463.95	-12.01	15.51	132.74	55.20	12.60	55.73	57.13	
2.00	12.80	19.20	14.70	484.77	-11.66	15.62	133.63	59.32	12.19	56.26	57.56	
2.05	13.12	18.32	14.27	507.10	-11.31	15.75	134.50	63.49	11.79	56.79	58.00	
2.10	13.44	17.36	13.84	531.08	-10.95	15.88	135.33	67.69	11.40	57.33	58.45	
2.15	13.76	16.33	13.41	556.88	-10.59	16.03	136.14	71.94	11.03	57.87	58.91	
2.20	14.08	15.20	12.97	584.67	-10.23	16.18	136.93	76.22	10.67	58.41	59.38	
2.25	14.40	13.95	12.54	614.69	-9.87	16.35	137.68	80.54	10.32	58.97	59.86	
2.30	14.72	12.54	12.11	647.16	-9.51	16.52	138.42	84.91	9.99	59.52	60.35	
2.35	15.04	10.92	10.92	729.74	-8.39	16.58	139.12	89.32	9.66	60.09	60.86	

2.40	15.36	8.96	8.96	904.26	-6.51	16.55	139.81	93.76	9.38	60.65	61.37
2.45	15.68	6.37	6.37	1294.17	-3.98	16.45	140.48	98.25	9.15	61.22	61.90
2.50	16.00	0.00	0.00	#####	0.00	15.83	141.14	102.78	9.02	61.78	62.43
2.55	16.00	0.00	0.00	#DIV/0!	0.00	15.84	141.81	107.35	9.02	62.32	62.97
2.60	16.00	0.00	0.00	#DIV/0!	0.00	15.84	142.47	111.96	9.02	62.86	63.50
2.65	16.00	0.00	0.00	#DIV/0!	0.00	15.84	143.13	116.61	9.02	63.40	64.03
2.70	16.00	0.00	0.00	#DIV/0!	0.00	15.84	143.79	121.30	9.02	63.94	64.57
2.75	16.00	0.00	0.00	#DIV/0!	0.00	15.85	144.45	126.03	9.02	64.48	65.10
2.80	16.00	0.00	0.00	#DIV/0!	0.00	15.85	145.11	130.80	9.02	65.02	65.64
2.85	16.00	0.00	0.00	#DIV/0!	0.00	15.85	145.77	135.60	9.02	65.56	66.17
2.90	16.00	0.00	0.00	#DIV/0!	0.00	15.85	146.43	140.45	9.02	66.10	66.71
2.95	16.00	0.00	0.00	#DIV/0!	0.00	15.86	147.10	145.34	9.02	66.64	67.24
3.00	16.00	0.00	0.00	#DIV/0!	0.00	15.86	147.76	150.26	9.02	67.18	67.78
3.05	16.00	0.00	0.00	#DIV/0!	0.00	15.86	148.42	155.23	9.02	67.72	68.32
3.10	16.00	0.00	0.00	#DIV/0!	0.00	15.86	149.08	160.24	9.02	68.26	68.85
3.15	16.00	0.00	0.00	#DIV/0!	0.00	15.86	149.74	165.28	9.02	68.80	69.39
3.20	16.00	0.00	0.00	#DIV/0!	0.00	15.87	150.40	170.37	9.02	69.34	69.92
3.25	16.00	0.00	0.00	#DIV/0!	0.00	15.87	151.06	175.49	9.02	69.88	70.46
3.30	16.00	0.00	0.00	#DIV/0!	0.00	15.87	151.72	180.65	9.02	70.42	71.00
3.35	16.00	0.00	0.00	#DIV/0!	0.00	15.87	152.39	185.86	9.02	70.96	71.53
3.40	16.00	0.00	0.00	#DIV/0!	0.00	15.87	153.05	191.10	9.02	71.50	72.07
3.45	16.00	0.00	0.00	#DIV/0!	0.00	15.88	153.71	196.39	9.02	72.05	72.61
3.50	16.00	0.00	0.00	#DIV/0!	0.00	15.88	154.37	201.71	9.02	72.59	73.15
3.55	16.00	0.00	0.00	#DIV/0!	0.00	15.88	155.03	207.07	9.02	73.13	73.68
3.60	16.00	0.00	0.00	#DIV/0!	0.00	15.88	155.69	212.47	9.02	73.67	74.22
3.65	16.00	0.00	0.00	#DIV/0!	0.00	15.88	156.35	217.92	9.02	74.21	74.76
3.70	16.00	0.00	0.00	#DIV/0!	0.00	15.88	157.01	223.40	9.02	74.75	75.29
3.75	16.00	0.00	0.00	#DIV/0!	0.00	15.89	157.68	228.92	9.02	75.29	75.83
3.80	16.00	0.00	0.00	#DIV/0!	0.00	15.89	158.34	234.48	9.02	75.84	76.37
3.85	16.00	0.00	0.00	#DIV/0!	0.00	15.89	159.00	240.08	9.02	76.38	76.91
3.90	16.00	0.00	0.00	#DIV/0!	0.00	15.89	159.66	245.72	9.02	76.92	77.45
3.95	16.00	0.00	0.00	#DIV/0!	0.00	15.89	160.32	251.40	9.02	77.46	77.98
4.00	16.00	0.00	0.00	#DIV/0!	0.00	15.89	160.98	257.12	9.02	78.00	78.52
4.05	16.00	0.00	0.00	#DIV/0!	0.00	15.90	161.64	262.88	9.02	78.54	79.06
4.10	16.00	0.00	0.00	#DIV/0!	0.00	15.90	162.31	268.68	9.02	79.09	79.60
4.15	16.00	0.00	0.00	#DIV/0!	0.00	15.90	162.97	274.52	9.02	79.63	80.14
4.20	16.00	0.00	0.00	#DIV/0!	0.00	15.90	163.63	280.40	9.02	80.17	80.68
4.25	16.00	0.00	0.00	#DIV/0!	0.00	15.90	164.29	286.32	9.02	80.71	81.21
4.30	16.00	0.00	0.00	#DIV/0!	0.00	15.90	164.95	292.28	9.02	81.25	81.75
4.35	16.00	0.00	0.00	#DIV/0!	0.00	15.90	165.61	298.28	9.02	81.80	82.29
4.40	16.00	0.00	0.00	#DIV/0!	0.00	15.90	166.27	304.32	9.02	82.34	82.83
4.45	16.00	0.00	0.00	#DIV/0!	0.00	15.91	166.93	310.39	9.02	82.88	83.37
4.50	16.00	0.00	0.00	#DIV/0!	0.00	15.91	167.60	316.51	9.02	83.42	83.91
4.55	16.00	0.00	0.00	#DIV/0!	0.00	15.91	168.26	322.67	9.02	83.97	84.45
4.60	16.00	0.00	0.00	#DIV/0!	0.00	15.91	168.92	328.87	9.02	84.51	84.99
4.65	16.00	0.00	0.00	#DIV/0!	0.00	15.91	169.58	335.10	9.02	85.05	85.53
4.70	16.00	0.00	0.00	#DIV/0!	0.00	15.91	170.24	341.38	9.02	85.59	86.07
4.75	16.00	0.00	0.00	#DIV/0!	0.00	15.91	170.90	347.70	9.02	86.14	86.61
4.80	16.00	0.00	0.00	#DIV/0!	0.00	15.91	171.56	354.05	9.02	86.68	87.15
4.85	16.00	0.00	0.00	#DIV/0!	0.00	15.92	172.22	360.45	9.02	87.22	87.69
4.90	16.00	0.00	0.00	#DIV/0!	0.00	15.92	172.89	366.88	9.02	87.76	88.22

4.95	16.00	0.00	0.00	#DIV/0!	0.00	15.92	173.55	373.36	9.02	88.31	88.76
5.00	16.00	0.00	0.00	#DIV/0!	0.00	15.92	174.21	379.88	9.02	88.85	89.30
5.05	16.00	0.00	0.00	#DIV/0!	0.00	15.92	174.87	386.43	9.02	89.39	89.84
5.10	16.00	0.00	0.00	#DIV/0!	0.00	15.92	175.53	393.03	9.02	89.93	90.38
5.15	16.00	0.00	0.00	#DIV/0!	0.00	15.92	176.19	399.66	9.02	90.48	90.92
5.20	16.00	0.00	0.00	#DIV/0!	0.00	15.92	176.85	406.34	9.02	91.02	91.46
5.25	16.00	0.00	0.00	#DIV/0!	0.00	15.92	177.51	413.05	9.02	91.56	92.00
5.30	16.00	0.00	0.00	#DIV/0!	0.00	15.92	178.18	419.80	9.02	92.10	92.54
5.35	16.00	0.00	0.00	#DIV/0!	0.00	15.92	178.84	426.60	9.02	92.65	93.09
5.40	16.00	0.00	0.00	#DIV/0!	0.00	15.93	179.50	433.43	9.02	93.19	93.63
5.45	16.00	0.00	0.00	#DIV/0!	0.00	15.93	180.16	440.31	9.02	93.73	94.17
5.50	16.00	0.00	0.00	#DIV/0!	0.00	15.93	180.82	447.22	9.02	94.28	94.71
5.55	16.00	0.00	0.00	#DIV/0!	0.00	15.93	181.48	454.17	9.02	94.82	95.25
5.60	16.00	0.00	0.00	#DIV/0!	0.00	15.93	182.14	461.17	9.02	95.36	95.79
5.65	16.00	0.00	0.00	#DIV/0!	0.00	15.93	182.80	468.20	9.02	95.91	96.33
5.70	16.00	0.00	0.00	#DIV/0!	0.00	15.93	183.47	475.27	9.02	96.45	96.87
5.75	16.00	0.00	0.00	#DIV/0!	0.00	15.93	184.13	482.39	9.02	96.99	97.41
5.80	16.00	0.00	0.00	#DIV/0!	0.00	15.93	184.79	489.54	9.02	97.53	97.95
5.85	16.00	0.00	0.00	#DIV/0!	0.00	15.93	185.45	496.73	9.02	98.08	98.49
5.90	16.00	0.00	0.00	#DIV/0!	0.00	15.93	186.11	503.96	9.02	98.62	99.03
5.95	16.00	0.00	0.00	#DIV/0!	0.00	15.93	186.77	511.23	9.02	99.16	99.57
6.00	16.00	0.00	0.00	#DIV/0!	0.00	15.93	187.43	518.55	9.02	99.71	100.11
6.05	16.00	0.00	0.00	#DIV/0!	0.00	15.94	188.10	525.90	9.02	100.25	100.65
6.10	16.00	0.00	0.00	#DIV/0!	0.00	15.94	188.76	533.29	9.02	100.79	101.20
6.15	16.00	0.00	0.00	#DIV/0!	0.00	15.94	189.42	540.72	9.02	101.34	101.74
6.20	16.00	0.00	0.00	#DIV/0!	0.00	15.94	190.08	548.19	9.02	101.88	102.28
6.25	16.00	0.00	0.00	#DIV/0!	0.00	15.94	190.74	555.70	9.02	102.42	102.82
6.30	16.00	0.00	0.00	#DIV/0!	0.00	15.94	191.40	563.25	9.02	102.97	103.36
6.35	16.00	0.00	0.00	#DIV/0!	0.00	15.94	192.06	570.84	9.02	103.51	103.90
6.40	16.00	0.00	0.00	#DIV/0!	0.00	15.94	192.72	578.48	9.02	104.05	104.44
6.45	16.00	0.00	0.00	#DIV/0!	0.00	15.94	193.39	586.15	9.02	104.60	104.98
6.50	16.00	0.00	0.00	#DIV/0!	0.00	15.94	194.05	593.86	9.02	105.14	105.53
6.55	16.00	0.00	0.00	#DIV/0!	0.00	15.94	194.71	601.61	9.02	105.68	106.07
6.60	16.00	0.00	0.00	#DIV/0!	0.00	15.94	195.37	609.40	9.02	106.23	106.61
6.65	16.00	0.00	0.00	#DIV/0!	0.00	15.94	196.03	617.23	9.02	106.77	107.15
6.70	16.00	0.00	0.00	#DIV/0!	0.00	15.94	196.69	625.10	9.02	107.31	107.69
6.75	16.00	0.00	0.00	#DIV/0!	0.00	15.94	197.35	633.01	9.02	107.86	108.23
6.80	16.00	0.00	0.00	#DIV/0!	0.00	15.94	198.01	640.95	9.02	108.40	108.78
6.85	16.00	0.00	0.00	#DIV/0!	0.00	15.95	198.68	648.94	9.02	108.95	109.32
6.90	16.00	0.00	0.00	#DIV/0!	0.00	15.95	199.34	656.97	9.02	109.49	109.86
6.95	16.00	0.00	0.00	#DIV/0!	0.00	15.95	200.00	665.04	9.02	110.03	110.40
7.00	16.00	0.00	0.00	#DIV/0!	0.00	15.95	200.66	673.15	9.02	110.58	110.94
7.05	16.00	0.00	0.00	#DIV/0!	0.00	15.95	201.32	681.30	9.02	111.12	111.48
7.10	16.00	0.00	0.00	#DIV/0!	0.00	15.95	201.98	689.49	9.02	111.66	112.03
7.15	16.00	0.00	0.00	#DIV/0!	0.00	15.95	202.64	697.72	9.02	112.21	112.57
7.20	16.00	0.00	0.00	#DIV/0!	0.00	15.95	203.30	705.99	9.02	112.75	113.11
7.25	16.00	0.00	0.00	#DIV/0!	0.00	15.95	203.97	714.29	9.02	113.29	113.65
7.30	16.00	0.00	0.00	#DIV/0!	0.00	15.95	204.63	722.64	9.02	113.84	114.19
7.35	16.00	0.00	0.00	#DIV/0!	0.00	15.95	205.29	731.03	9.02	114.38	114.74
7.40	16.00	0.00	0.00	#DIV/0!	0.00	15.95	205.95	739.46	9.02	114.93	115.28
7.45	16.00	0.00	0.00	#DIV/0!	0.00	15.95	206.61	747.93	9.02	115.47	115.82

7.50	16.00	0.00	0.00	#DIV/0!	0.00	15.95	207.27	756.43	9.02	116.01	116.36
7.55	16.00	0.00	0.00	#DIV/0!	0.00	15.95	207.93	764.98	9.02	116.56	116.91
7.60	16.00	0.00	0.00	#DIV/0!	0.00	15.95	208.59	773.57	9.02	117.10	117.45
7.65	16.00	0.00	0.00	#DIV/0!	0.00	15.95	209.26	782.20	9.02	117.64	117.99
7.70	16.00	0.00	0.00	#DIV/0!	0.00	15.95	209.92	790.86	9.02	118.19	118.53
7.75	16.00	0.00	0.00	#DIV/0!	0.00	15.95	210.58	799.57	9.02	118.73	119.07
7.80	16.00	0.00	0.00	#DIV/0!	0.00	15.95	211.24	808.32	9.02	119.28	119.62
7.85	16.00	0.00	0.00	#DIV/0!	0.00	15.95	211.90	817.10	9.02	119.82	120.16
7.90	16.00	0.00	0.00	#DIV/0!	0.00	15.96	212.56	825.93	9.02	120.36	120.70
7.95	16.00	0.00	0.00	#DIV/0!	0.00	15.96	213.22	834.80	9.02	120.91	121.24
8.00	16.00	0.00	0.00	#DIV/0!	0.00	15.96	213.89	843.70	9.02	121.45	121.79
8.05	16.00	0.00	0.00	#DIV/0!	0.00	15.96	214.55	852.65	9.02	122.00	122.33
8.10	16.00	0.00	0.00	#DIV/0!	0.00	15.96	215.21	861.64	9.02	122.54	122.87
8.15	16.00	0.00	0.00	#DIV/0!	0.00	15.96	215.87	870.66	9.02	123.08	123.41
8.20	16.00	0.00	0.00	#DIV/0!	0.00	15.96	216.53	879.73	9.02	123.63	123.96
8.25	16.00	0.00	0.00	#DIV/0!	0.00	15.96	217.19	888.83	9.02	124.17	124.50
8.30	16.00	0.00	0.00	#DIV/0!	0.00	15.96	217.85	897.98	9.02	124.72	125.04
8.35	16.00	0.00	0.00	#DIV/0!	0.00	15.96	218.51	907.17	9.02	125.26	125.58
8.40	16.00	0.00	0.00	#DIV/0!	0.00	15.96	219.18	916.39	9.02	125.80	126.13
8.45	16.00	0.00	0.00	#DIV/0!	0.00	15.96	219.84	925.66	9.02	126.35	126.67
8.50	16.00	0.00	0.00	#DIV/0!	0.00	15.96	220.50	934.96	9.02	126.89	127.21
8.55	16.00	0.00	0.00	#DIV/0!	0.00	15.96	221.16	944.31	9.02	127.44	127.75
8.60	16.00	0.00	0.00	#DIV/0!	0.00	15.96	221.82	953.69	9.02	127.98	128.30
8.65	16.00	0.00	0.00	#DIV/0!	0.00	15.96	222.48	963.12	9.02	128.52	128.84
8.70	16.00	0.00	0.00	#DIV/0!	0.00	15.96	223.14	972.58	9.02	129.07	129.38
8.75	16.00	0.00	0.00	#DIV/0!	0.00	15.96	223.80	982.09	9.02	129.61	129.93
8.80	16.00	0.00	0.00	#DIV/0!	0.00	15.96	224.47	991.63	9.02	130.16	130.47
8.85	16.00	0.00	0.00	#DIV/0!	0.00	15.96	225.13	1001.22	9.02	130.70	131.01
8.90	16.00	0.00	0.00	#DIV/0!	0.00	15.96	225.79	1010.84	9.02	131.25	131.55
8.95	16.00	0.00	0.00	#DIV/0!	0.00	15.96	226.45	1020.51	9.02	131.79	132.10
9.00	16.00	0.00	0.00	#DIV/0!	0.00	15.96	227.11	1030.21	9.02	132.33	132.64
9.05	16.00	0.00	0.00	#DIV/0!	0.00	15.96	227.77	1039.95	9.02	132.88	133.18
9.10	16.00	0.00	0.00	#DIV/0!	0.00	15.96	228.43	1049.74	9.02	133.42	133.73
9.15	16.00	0.00	0.00	#DIV/0!	0.00	15.96	229.09	1059.56	9.02	133.97	134.27
9.20	16.00	0.00	0.00	#DIV/0!	0.00	15.96	229.76	1069.43	9.02	134.51	134.81
9.25	16.00	0.00	0.00	#DIV/0!	0.00	15.96	230.42	1079.33	9.02	135.05	135.36
9.30	16.00	0.00	0.00	#DIV/0!	0.00	15.96	231.08	1089.28	9.02	135.60	135.90
9.35	16.00	0.00	0.00	#DIV/0!	0.00	15.97	231.74	1099.26	9.02	136.14	136.44
9.40	16.00	0.00	0.00	#DIV/0!	0.00	15.97	232.40	1109.28	9.02	136.69	136.98
9.45	16.00	0.00	0.00	#DIV/0!	0.00	15.97	233.06	1119.35	9.02	137.23	137.53
9.50	16.00	0.00	0.00	#DIV/0!	0.00	15.97	233.72	1129.45	9.02	137.78	138.07
9.55	16.00	0.00	0.00	#DIV/0!	0.00	15.97	234.38	1139.59	9.02	138.32	138.61
9.60	16.00	0.00	0.00	#DIV/0!	0.00	15.97	235.05	1149.78	9.02	138.86	139.16
9.65	16.00	0.00	0.00	#DIV/0!	0.00	15.97	235.71	1160.00	9.02	139.41	139.70
9.70	16.00	0.00	0.00	#DIV/0!	0.00	15.97	236.37	1170.26	9.02	139.95	140.24
9.75	16.00	0.00	0.00	#DIV/0!	0.00	15.97	237.03	1180.57	9.02	140.50	140.79
9.80	16.00	0.00	0.00	#DIV/0!	0.00	15.97	237.69	1190.91	9.02	141.04	141.33
9.85	16.00	0.00	0.00	#DIV/0!	0.00	15.97	238.35	1201.29	9.02	141.59	141.87
9.90	16.00	0.00	0.00	#DIV/0!	0.00	15.97	239.01	1211.72	9.02	142.13	142.42
9.95	16.00	0.00	0.00	#DIV/0!	0.00	15.97	239.68	1222.18	9.02	142.67	142.96
10.00	16.00	0.00	0.00	#DIV/0!	0.00	15.97	240.34	1232.68	9.02	143.22	143.50

10.05	16.00	0.00	0.00	#DIV/0!	0.00	15.97	241.00	1243.22	9.02	143.76	144.05
10.10	16.00	0.00	0.00	#DIV/0!	0.00	15.97	241.66	1253.81	9.02	144.31	144.59
10.15	16.00	0.00	0.00	#DIV/0!	0.00	15.97	242.32	1264.43	9.02	144.85	145.13
10.20	16.00	0.00	0.00	#DIV/0!	0.00	15.97	242.98	1275.09	9.02	145.40	145.68
10.25	16.00	0.00	0.00	#DIV/0!	0.00	15.97	243.64	1285.79	9.02	145.94	146.22
10.30	16.00	0.00	0.00	#DIV/0!	0.00	15.97	244.30	1296.54	9.02	146.49	146.76
10.35	16.00	0.00	0.00	#DIV/0!	0.00	15.97	244.97	1307.32	9.02	147.03	147.31
10.40	16.00	0.00	0.00	#DIV/0!	0.00	15.97	245.63	1318.14	9.02	147.57	147.85
10.45	16.00	0.00	0.00	#DIV/0!	0.00	15.97	246.29	1329.00	9.02	148.12	148.39
10.50	16.00	0.00	0.00	#DIV/0!	0.00	15.97	246.95	1339.90	9.02	148.66	148.94
10.55	16.00	0.00	0.00	#DIV/0!	0.00	15.97	247.61	1350.85	9.02	149.21	149.48
10.60	16.00	0.00	0.00	#DIV/0!	0.00	15.97	248.27	1361.83	9.02	149.75	150.02
10.65	16.00	0.00	0.00	#DIV/0!	0.00	15.97	248.93	1372.85	9.02	150.30	150.57
10.70	16.00	0.00	0.00	#DIV/0!	0.00	15.97	249.59	1383.91	9.02	150.84	151.11
10.75	16.00	0.00	0.00	#DIV/0!	0.00	15.97	250.26	1395.01	9.02	151.39	151.65
10.80	16.00	0.00	0.00	#DIV/0!	0.00	15.97	250.92	1406.15	9.02	151.93	152.20
10.85	16.00	0.00	0.00	#DIV/0!	0.00	15.97	251.58	1417.34	9.02	152.47	152.74
10.90	16.00	0.00	0.00	#DIV/0!	0.00	15.97	252.24	1428.56	9.02	153.02	153.28
10.95	16.00	0.00	0.00	#DIV/0!	0.00	15.97	252.90	1439.82	9.02	153.56	153.83