

HydroComp PropCad v4

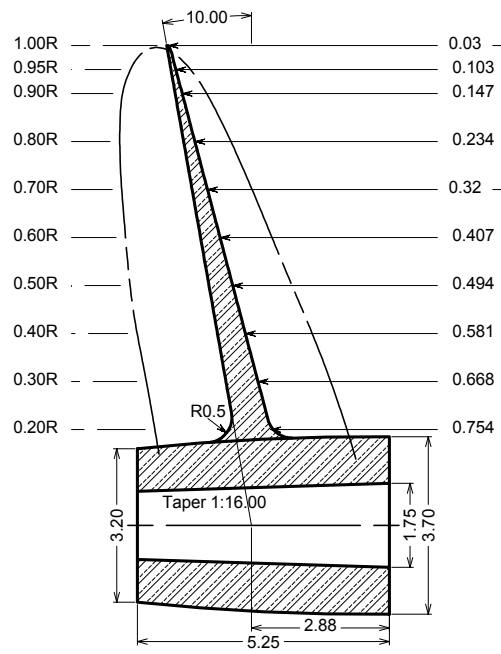
Example Design Documents

This document contains examples of the various design documents that can be printed or exported to a file with HydroComp PropCad v4.

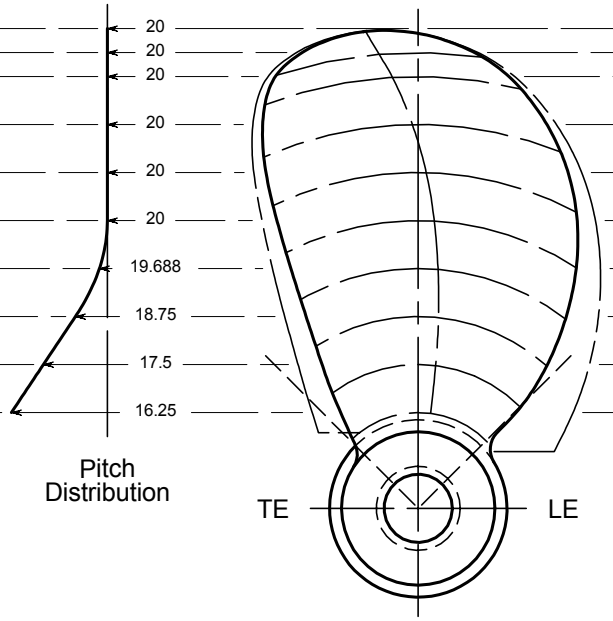
A sample 20" diameter 4-bladed B-series propeller is used for these examples.

Example Design Documents:

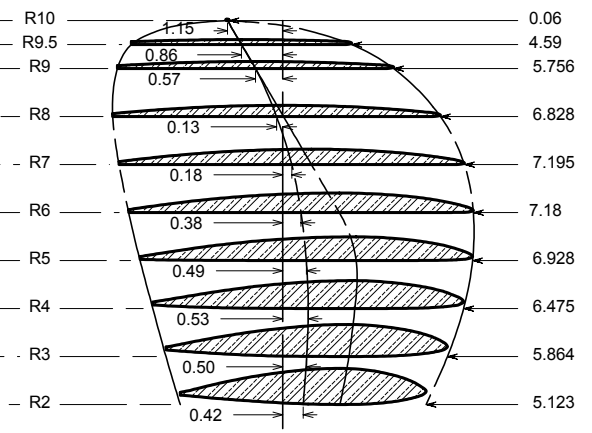
- Standard 2D *CAD View* printout
- Offsets – 2D (expanded)
- Offsets – 3D (XYZ)
- Offsets – 3D (X, angle, radius)
- ABS thickness report



Profile View



Transverse View



Expanded View

PROPELLER DATA	Propeller type	FPP	
	Rotation	Right	
	Number of blades	4	
	Diameter	20.000	in
	Pitch (nominal)	20.000	in
	Expanded area ratio	0.650	
	Rake aft	10	Deg
	Skew	9.20	Deg
	Material type	Mn-Ni-Al [5]	
	Density	0.27	lb/in ³
	Design power	150	HP
	Design RPM	1250	
	Thickness rule	ABS Small	
Required t @ 0.25	0.711	in	
Weight	28.1	lb	
Mass moment of inertia	496.1	lb-in ²	
My Design 20" B-series Propeller My Company			
DRAWING #	20011008-01	SCALE	1/4
DRAWN BY	DMM	DATE	10/8/2001
APPROVED BY		DATE	

OFFSET TABLES [INCHES]

r/R	r	C	MT	SK	P	PA°	RL
0.2000	2.000	5.123	0.754	-0.424	16.250	52.28	0.000
0.3000	3.000	5.864	0.668	-0.497	17.500	42.87	0.000
0.4000	4.000	6.475	0.581	-0.529	18.750	36.72	0.000
0.5000	5.000	6.928	0.494	-0.489	19.688	32.07	0.000
0.6000	6.000	7.180	0.407	-0.380	20.000	27.95	0.000
0.7000	7.000	7.195	0.320	-0.185	20.000	24.45	0.000
0.8000	8.000	6.828	0.234	0.130	20.000	21.70	0.000
0.9000	9.000	5.756	0.147	0.569	20.000	19.48	0.000
0.9500	9.500	4.590	0.103	0.861	20.000	18.52	0.000
0.9750	9.750	3.375	0.082	1.009	20.000	18.08	0.000
0.9875	9.875	2.458	0.071	1.081	20.000	17.87	0.000
1.0000	10.000	0.060	0.030	1.153	20.000	17.66	0.000

My Design
20" B-series Propeller
My Company
Drawing #: 20011008-01

Rotation: RIGHT Blades: 4
 Diameter: 20.000 Pitch: 20.000
 Rake Angle: 10.0°

3D Back Offsets

r/R	Back	LE	2.5	5	10	20	30	40	50	60	70	80	90	95	TE	MT
0.2000	X	-2.179	-2.145	-2.090	-1.948	-1.620	-1.250	-0.847	-0.423	0.018	0.470	0.934	1.411	1.652	1.887	-1.052
	Y	1.388	1.503	1.590	1.722	1.894	1.978	2.000	1.976	1.917	1.830	1.722	1.599	1.533	1.456	1.996
	Z	-1.440	-1.319	-1.213	-1.017	-0.643	-0.294	0.021	0.308	0.570	0.807	1.018	1.201	1.284	1.371	-0.133
0.3000	X	-1.956	-1.948	-1.899	-1.769	-1.449	-1.092	-0.695	-0.276	0.164	0.616	1.080	1.559	1.801	2.039	-0.897
	Y	2.110	2.243	2.342	2.506	2.746	2.901	2.981	2.999	2.965	2.883	2.759	2.600	2.509	2.406	2.949
	Z	-2.132	-1.993	-1.875	-1.649	-1.207	-0.765	-0.341	0.069	0.459	0.830	1.178	1.496	1.645	1.792	-0.551
0.4000	X	-1.662	-1.658	-1.612	-1.492	-1.189	-0.845	-0.462	-0.056	0.370	0.813	1.272	1.743	1.980	2.216	-0.657
	Y	2.972	3.101	3.205	3.383	3.656	3.845	3.956	3.999	3.980	3.905	3.777	3.603	3.499	3.382	3.909
	Z	-2.677	-2.526	-2.394	-2.135	-1.622	-1.104	-0.595	-0.092	0.397	0.869	1.316	1.737	1.939	2.135	-0.849
0.5000	X	-1.290	-1.287	-1.244	-1.134	-0.853	-0.527	-0.163	0.222	0.624	1.043	1.478	1.931	2.160	2.391	-0.348
	Y	3.947	4.068	4.169	4.347	4.627	4.824	4.945	4.997	4.984	4.909	4.776	4.591	4.480	4.356	4.894
	Z	-3.069	-2.907	-2.760	-2.471	-1.894	-1.314	-0.737	-0.163	0.402	0.951	1.479	1.980	2.221	2.454	-1.025
0.6000	X	-0.841	-0.833	-0.791	-0.687	-0.434	-0.140	0.184	0.530	0.893	1.272	1.668	2.081	2.293	2.509	0.147
	Y	5.015	5.122	5.213	5.378	5.644	5.833	5.949	5.998	5.982	5.903	5.765	5.573	5.457	5.329	5.940
	Z	-3.294	-3.126	-2.970	-2.660	-2.036	-1.407	-0.777	-0.150	0.470	1.076	1.662	2.224	2.494	2.756	-0.846
0.7000	X	-0.359	-0.345	-0.298	-0.196	0.035	0.291	0.570	0.869	1.183	1.512	1.857	2.217	2.403	2.592	0.697
	Y	6.176	6.264	6.340	6.480	6.708	6.869	6.966	7.000	6.973	6.888	6.748	6.554	6.439	6.311	6.988
	Z	-3.295	-3.125	-2.966	-2.647	-2.001	-1.347	-0.691	-0.037	0.610	1.244	1.862	2.458	2.746	3.028	-0.409
0.8000	X	0.169	0.186	0.233	0.330	0.536	0.757	0.993	1.242	1.502	1.775	2.060	2.356	2.509	2.665	1.188
	Y	7.429	7.493	7.549	7.652	7.816	7.929	7.989	7.997	7.956	7.866	7.730	7.548	7.441	7.323	8.000
	Z	-2.968	-2.803	-2.648	-2.335	-1.704	-1.067	-0.429	0.207	0.837	1.456	2.063	2.652	2.939	3.221	0.074
0.9000	X	0.789	0.800	0.841	0.923	1.092	1.267	1.449	1.638	1.833	2.035	2.243	2.458	2.568	2.680	1.638
	Y	8.740	8.775	8.804	8.857	8.938	8.986	9.000	8.981	8.930	8.846	8.732	8.587	8.503	8.413	8.981
	Z	-2.146	-2.001	-1.866	-1.595	-1.051	-0.504	0.042	0.585	1.124	1.657	2.181	2.696	2.948	3.198	0.585
0.9500	X	1.191	1.195	1.228	1.294	1.428	1.566	1.707	1.851	1.998	2.149	2.303	2.461	2.540	2.621	1.851
	Y	9.404	9.420	9.434	9.457	9.489	9.500	9.491	9.462	9.413	9.345	9.258	9.151	9.091	9.027	9.462
	Z	-1.346	-1.227	-1.118	-0.899	-0.461	-0.024	0.413	0.848	1.280	1.708	2.132	2.550	2.756	2.961	0.848
0.9750	X	1.480	1.476	1.500	1.549	1.648	1.748	1.850	1.954	2.060	2.167	2.276	2.387	2.442	2.499	1.954
	Y	9.729	9.735	9.739	9.745	9.750	9.744	9.727	9.700	9.663	9.615	9.557	9.488	9.450	9.410	9.700
	Z	-0.635	-0.545	-0.464	-0.303	0.020	0.342	0.663	0.983	1.301	1.618	1.932	2.243	2.398	2.552	0.983
0.9875	X	1.667	1.656	1.674	1.710	1.783	1.856	1.930	2.005	2.081	2.158	2.235	2.314	2.353	2.393	2.005
	Y	9.874	9.875	9.875	9.874	9.869	9.858	9.841	9.819	9.792	9.759	9.720	9.676	9.652	9.627	9.819
	Z	-0.132	-0.064	-0.005	0.113	0.348	0.582	0.816	1.049	1.281	1.512	1.742	1.971	2.085	2.198	1.049
1.0000	X	2.092	2.087	2.086	2.084	2.082	2.081	2.083	2.085	2.087	2.089	2.092	2.095	2.096	2.098	2.082
	Y	9.942	9.942	9.942	9.941	9.941	9.940	9.939	9.939	9.938	9.937	9.937	9.936	9.936	9.936	9.939
	Z	1.072	1.075	1.077	1.081	1.088	1.094	1.100	1.105	1.111	1.117	1.122	1.127	1.130	1.132	1.099

3D Face Offsets

r/R	Face	LE	2.5	5	10	20	30	40	50	60	70	80	90	95	TE	MT
0.2000	X	-2.179	-2.017	-1.893	-1.657	-1.214	-0.794	-0.389	0.008	0.399	0.785	1.168	1.547	1.734	1.924	-0.591
	Y	1.388	1.389	1.424	1.501	1.662	1.807	1.919	1.985	1.998	1.956	1.855	1.698	1.599	1.489	1.868
	Z	-1.440	-1.439	-1.405	-1.322	-1.113	-0.857	-0.563	-0.246	0.084	0.419	0.747	1.056	1.201	1.336	-0.713
0.3000	X	-1.956	-1.792	-1.671	-1.443	-1.014	-0.608	-0.208	0.189	0.582	0.968	1.347	1.718	1.901	2.083	-0.408
	Y	2.110	2.144	2.204	2.327	2.560	2.754	2.896	2.978	2.999	2.956	2.847	2.671	2.558	2.430	2.832
	Z	-2.132	-2.099	-2.035	-1.893	-1.565	-1.190	-0.785	-0.361	0.073	0.512	0.946	1.366	1.567	1.759	-0.990
0.4000	X	-1.662	-1.502	-1.390	-1.176	-0.774	-0.385	0.002	0.389	0.775	1.157	1.535	1.905	2.087	2.264	-0.192
	Y	2.972	3.027	3.102	3.251	3.520	3.736	3.889	3.978	3.999	3.952	3.837	3.654	3.536	3.401	3.821
	Z	-2.677	-2.615	-2.525	-2.330	-1.900	-1.430	-0.934	-0.423	0.096	0.616	1.129	1.627	1.869	2.105	-1.184
0.5000	X	-1.290	-1.148	-1.047	-0.853	-0.482	-0.114	0.254	0.622	0.990	1.357	1.722	2.084	2.264	2.442	0.070
	Y	3.947	4.017	4.099	4.257	4.534	4.750	4.900	4.983	4.997	4.942	4.819	4.629	4.508	4.372	4.833
	Z	-3.069	-2.977	-2.863	-2.622	-2.107	-1.562	-0.995	-0.414	0.173	0.757	1.333	1.891	2.162	2.426	-1.280
0.6000	X	-0.841	-0.721	-0.636	-0.466	-0.130	0.207	0.543	0.880	1.216	1.553	1.889	2.226	2.394	2.562	0.506
	Y	5.015	5.090	5.172	5.325	5.587	5.787	5.922	5.991	5.993	5.928	5.797	5.601	5.479	5.342	5.910
	Z	-3.294	-3.176	-3.041	-2.764	-2.187	-1.585	-0.966	-0.336	0.298	0.929	1.549	2.152	2.445	2.731	-1.035
0.7000	X	-0.359	-0.257	-0.183	-0.034	0.264	0.562	0.860	1.158	1.456	1.753	2.051	2.349	2.498	2.647	0.988
	Y	6.176	6.246	6.318	6.452	6.677	6.844	6.952	6.998	6.983	6.907	6.771	6.575	6.456	6.322	6.979
	Z	-3.295	-3.161	-3.014	-2.715	-2.100	-1.467	-0.821	-0.168	0.486	1.136	1.777	2.402	2.707	3.005	-0.541

OFFSET TABLES [INCHES]

3D Face Offsets

r/R	Face	LE	2.5	5	10	20	30	40	50	60	70	80	90	95	TE	MT
0.8000	X	0.169	0.260	0.323	0.449	0.701	0.954	1.206	1.459	1.711	1.964	2.216	2.468	2.595	2.721	1.406
	Y	7.429	7.483	7.537	7.638	7.802	7.918	7.984	7.999	7.964	7.880	7.745	7.562	7.453	7.332	8.000
	Z	-2.968	-2.830	-2.681	-2.380	-1.768	-1.144	-0.513	0.121	0.754	1.383	2.003	2.610	2.908	3.201	-0.012
0.9000	X	0.789	0.865	0.913	1.009	1.201	1.393	1.585	1.777	1.969	2.161	2.352	2.544	2.640	2.736	1.777
	Y	8.740	8.770	8.799	8.852	8.934	8.983	9.000	8.984	8.935	8.854	8.741	8.596	8.512	8.420	8.984
	Z	-2.146	-2.024	-1.891	-1.625	-1.089	-0.549	-0.006	0.536	1.077	1.613	2.144	2.666	2.924	3.180	0.536
0.9500	X	1.191	1.256	1.292	1.365	1.511	1.657	1.803	1.949	2.094	2.240	2.386	2.532	2.605	2.678	1.949
	Y	9.404	9.418	9.431	9.455	9.487	9.500	9.492	9.465	9.418	9.351	9.264	9.158	9.098	9.033	9.465
	Z	-1.346	-1.247	-1.139	-0.923	-0.489	-0.054	0.381	0.815	1.248	1.678	2.104	2.526	2.736	2.943	0.815
0.9750	X	1.480	1.535	1.561	1.613	1.718	1.823	1.928	2.032	2.137	2.242	2.347	2.451	2.504	2.556	2.032
	Y	9.729	9.734	9.738	9.745	9.750	9.745	9.729	9.703	9.666	9.619	9.561	9.493	9.455	9.415	9.703
	Z	-0.635	-0.564	-0.484	-0.324	-0.003	0.317	0.638	0.958	1.276	1.594	1.909	2.223	2.379	2.534	0.958
0.9875	X	1.667	1.715	1.734	1.771	1.847	1.922	1.997	2.073	2.148	2.224	2.299	2.375	2.412	2.450	2.073
	Y	9.874	9.875	9.875	9.875	9.870	9.859	9.843	9.821	9.794	9.762	9.724	9.680	9.656	9.631	9.821
	Z	-0.132	-0.082	-0.024	0.093	0.327	0.561	0.794	1.027	1.259	1.491	1.722	1.952	2.066	2.180	1.027
1.0000	X	2.092	2.097	2.099	2.103	2.107	2.109	2.111	2.113	2.115	2.117	2.118	2.120	2.121	2.122	2.111
	Y	9.942	9.942	9.942	9.942	9.942	9.941	9.940	9.940	9.939	9.938	9.938	9.937	9.937	9.937	9.940
	Z	1.072	1.072	1.073	1.075	1.080	1.085	1.091	1.096	1.102	1.108	1.114	1.119	1.122	1.125	1.090

OFFSET TABLES [INCHES]

r/R	r	C	MT	SK	P	PA°	RL
0.2000	2.000	5.123	0.754	-0.424	16.250	52.28	0.000
0.3000	3.000	5.864	0.668	-0.497	17.500	42.87	0.000
0.4000	4.000	6.475	0.581	-0.529	18.750	36.72	0.000
0.5000	5.000	6.928	0.494	-0.489	19.688	32.07	0.000
0.6000	6.000	7.180	0.407	-0.380	20.000	27.95	0.000
0.7000	7.000	7.195	0.320	-0.185	20.000	24.45	0.000
0.8000	8.000	6.828	0.234	0.130	20.000	21.70	0.000
0.9000	9.000	5.756	0.147	0.569	20.000	19.48	0.000
0.9500	9.500	4.590	0.103	0.861	20.000	18.52	0.000
0.9750	9.750	3.375	0.082	1.009	20.000	18.08	0.000
0.9875	9.875	2.458	0.071	1.081	20.000	17.87	0.000
1.0000	10.000	0.060	0.030	1.153	20.000	17.66	0.000

My Design
20" B-series Propeller
My Company
Drawing #: 20011008-01

Rotation: RIGHT Blades: 4
 Diameter: 20.000 Pitch: 20.000
 Rake Angle: 10.0°

Radial Back Offsets

r/R	Back	LE	2.5	5	10	20	30	40	50	60	70	80	90	95	TE	MT
0.2000	X	-2.179	-2.145	-2.090	-1.948	-1.620	-1.250	-0.847	-0.423	0.018	0.470	0.934	1.411	1.652	1.887	-1.052
	r	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
	theta	-0.804	-0.720	-0.652	-0.534	-0.327	-0.148	0.010	0.155	0.289	0.415	0.534	0.644	0.697	0.755	-0.067
0.3000	X	-1.956	-1.948	-1.899	-1.769	-1.449	-1.092	-0.695	-0.276	0.164	0.616	1.080	1.559	1.801	2.039	-0.897
	r	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000
	theta	-0.791	-0.726	-0.675	-0.582	-0.414	-0.258	-0.114	0.023	0.154	0.280	0.403	0.522	0.580	0.640	-0.185
0.4000	X	-1.662	-1.658	-1.612	-1.492	-1.189	-0.845	-0.462	-0.056	0.370	0.813	1.272	1.743	1.980	2.216	-0.657
	r	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
	theta	-0.733	-0.684	-0.642	-0.563	-0.418	-0.280	-0.149	-0.023	0.099	0.219	0.335	0.449	0.506	0.563	-0.214
0.5000	X	-1.290	-1.287	-1.244	-1.134	-0.853	-0.527	-0.163	0.222	0.624	1.043	1.478	1.931	2.160	2.391	-0.348
	r	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
	theta	-0.661	-0.620	-0.585	-0.517	-0.389	-0.266	-0.148	-0.033	0.080	0.191	0.300	0.407	0.460	0.513	-0.207
0.6000	X	-0.841	-0.833	-0.791	-0.687	-0.434	-0.140	0.184	0.530	0.893	1.272	1.668	2.081	2.293	2.509	0.147
	r	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000
	theta	-0.581	-0.548	-0.518	-0.459	-0.346	-0.237	-0.130	-0.025	0.078	0.180	0.281	0.380	0.429	0.477	-0.141
0.7000	X	-0.359	-0.345	-0.298	-0.196	0.035	0.291	0.570	0.869	1.183	1.512	1.857	2.217	2.403	2.592	0.697
	r	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000
	theta	-0.490	-0.463	-0.438	-0.388	-0.290	-0.194	-0.099	-0.005	0.087	0.179	0.269	0.359	0.403	0.447	-0.058
0.8000	X	0.169	0.186	0.233	0.330	0.536	0.757	0.993	1.242	1.502	1.775	2.060	2.356	2.509	2.665	1.188
	r	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000
	theta	-0.380	-0.358	-0.337	-0.296	-0.215	-0.134	-0.054	0.026	0.105	0.183	0.261	0.338	0.376	0.414	0.009
0.9000	X	0.789	0.800	0.841	0.923	1.092	1.267	1.449	1.638	1.833	2.035	2.243	2.458	2.568	2.680	1.638
	r	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000
	theta	-0.241	-0.224	-0.209	-0.178	-0.117	-0.056	0.005	0.065	0.125	0.185	0.245	0.304	0.334	0.363	0.065
0.9500	X	1.191	1.195	1.228	1.294	1.428	1.566	1.707	1.851	1.998	2.149	2.303	2.461	2.540	2.621	1.851
	r	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500
	theta	-0.142	-0.130	-0.118	-0.095	-0.049	-0.002	0.044	0.089	0.135	0.181	0.226	0.272	0.294	0.317	0.089
0.9750	X	1.480	1.476	1.500	1.549	1.648	1.748	1.850	1.954	2.060	2.167	2.276	2.387	2.442	2.499	1.954
	r	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750
	theta	-0.065	-0.056	-0.048	-0.031	0.002	0.035	0.068	0.101	0.134	0.167	0.199	0.232	0.249	0.265	0.101
0.9875	X	1.667	1.656	1.674	1.710	1.783	1.856	1.930	2.005	2.081	2.158	2.235	2.314	2.353	2.393	2.005
	r	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875
	theta	-0.013	-0.006	0.000	0.011	0.035	0.059	0.083	0.106	0.130	0.154	0.177	0.201	0.213	0.225	0.106
1.0000	X	2.092	2.087	2.086	2.084	2.082	2.081	2.083	2.085	2.087	2.089	2.092	2.095	2.096	2.098	2.082
	r	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000
	theta	0.107	0.108	0.108	0.108	0.108	0.109	0.110	0.110	0.111	0.111	0.112	0.112	0.113	0.113	0.110

Radial Face Offsets

r/R	Face	LE	2.5	5	10	20	30	40	50	60	70	80	90	95	TE	MT
0.2000	X	-2.179	-2.017	-1.893	-1.657	-1.214	-0.794	-0.389	0.008	0.399	0.785	1.168	1.547	1.734	1.924	-0.591
	r	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000	2.000
	theta	-0.804	-0.803	-0.779	-0.722	-0.590	-0.443	-0.286	-0.124	0.042	0.211	0.383	0.556	0.644	0.731	-0.365
0.3000	X	-1.956	-1.792	-1.671	-1.443	-1.014	-0.608	-0.208	0.189	0.582	0.968	1.347	1.718	1.901	2.083	-0.408
	r	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000	3.000
	theta	-0.791	-0.775	-0.746	-0.683	-0.549	-0.408	-0.265	-0.121	0.024	0.171	0.321	0.473	0.549	0.627	-0.336
0.4000	X	-1.662	-1.502	-1.390	-1.176	-0.774	-0.385	0.002	0.389	0.775	1.157	1.535	1.905	2.087	2.264	-0.192
	r	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000	4.000
	theta	-0.733	-0.713	-0.683	-0.622	-0.495	-0.365	-0.236	-0.106	0.024	0.155	0.286	0.419	0.486	0.554	-0.301
0.5000	X	-1.290	-1.148	-1.047	-0.853	-0.482	-0.114	0.254	0.622	0.990	1.357	1.722	2.084	2.264	2.442	0.070
	r	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000	5.000
	theta	-0.661	-0.638	-0.610	-0.552	-0.435	-0.318	-0.200	-0.083	0.035	0.152	0.270	0.388	0.447	0.507	-0.259
0.6000	X	-0.841	-0.721	-0.636	-0.466	-0.130	0.207	0.543	0.880	1.216	1.553	1.889	2.226	2.394	2.562	0.506
	r	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000	6.000
	theta	-0.581	-0.558	-0.532	-0.479	-0.373	-0.267	-0.162	-0.056	0.050	0.155	0.261	0.367	0.420	0.473	-0.173
0.7000	X	-0.359	-0.257	-0.183	-0.034	0.264	0.562	0.860	1.158	1.456	1.753	2.051	2.349	2.498	2.647	0.988
	r	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000	7.000
	theta	-0.490	-0.468	-0.445	-0.398	-0.305	-0.211	-0.118	-0.024	0.070	0.163	0.257	0.350	0.397	0.444	-0.077

OFFSET TABLES [INCHES]

Radial Face Offsets

r/R	Face	LE	2.5	5	10	20	30	40	50	60	70	80	90	95	TE	MT
0.8000	X	0.169	0.260	0.323	0.449	0.701	0.954	1.206	1.459	1.711	1.964	2.216	2.468	2.595	2.721	1.406
	r	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000	8.000
	theta	-0.380	-0.362	-0.342	-0.302	-0.223	-0.144	-0.064	0.015	0.094	0.174	0.253	0.332	0.372	0.412	-0.002
0.9000	X	0.789	0.865	0.913	1.009	1.201	1.393	1.585	1.777	1.969	2.161	2.352	2.544	2.640	2.736	1.777
	r	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000	9.000
	theta	-0.241	-0.227	-0.212	-0.182	-0.121	-0.061	-0.001	0.060	0.120	0.180	0.240	0.301	0.331	0.361	0.060
0.9500	X	1.191	1.256	1.292	1.365	1.511	1.657	1.803	1.949	2.094	2.240	2.386	2.532	2.605	2.678	1.949
	r	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500	9.500
	theta	-0.142	-0.132	-0.120	-0.097	-0.052	-0.006	0.040	0.086	0.132	0.178	0.223	0.269	0.292	0.315	0.086
0.9750	X	1.480	1.535	1.561	1.613	1.718	1.823	1.928	2.032	2.137	2.242	2.347	2.451	2.504	2.556	2.032
	r	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750	9.750
	theta	-0.065	-0.058	-0.050	-0.033	0.000	0.033	0.065	0.098	0.131	0.164	0.197	0.230	0.246	0.263	0.098
0.9875	X	1.667	1.715	1.734	1.771	1.847	1.922	1.997	2.073	2.148	2.224	2.299	2.375	2.412	2.450	2.073
	r	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875	9.875
	theta	-0.013	-0.008	-0.002	0.009	0.033	0.057	0.080	0.104	0.128	0.152	0.175	0.199	0.211	0.223	0.104
1.0000	X	2.092	2.097	2.099	2.103	2.107	2.109	2.111	2.113	2.115	2.117	2.118	2.120	2.121	2.122	2.111
	r	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000	10.000
	theta	0.107	0.107	0.107	0.108	0.108	0.109	0.109	0.110	0.110	0.111	0.112	0.112	0.112	0.113	0.109

**ABS Propeller Thickness Calculation
Steel Vessels Under 61 Meters (1983) and Notice 7 (1991)
Section 26**

Principal Characteristics

Propeller type:	Fixed-pitch	Rotation:	Right
Blades:	4	Exp area ratio:	0.650
Diameter:	20 in	Rake aft:	10 Deg
Pitch:	20 in	Skew angle:	9.20 Deg
Material type:	Mn-Ni-Al [5]	Design power:	150 HP
Density:	0.27 lb/in3	Design RPM:	1250

Properties at 0.25R

Pitch:	16.875 in		
Chord length:	5.504 in		
Max thickness:	0.711 in		
Sectional area:	2.74 in2	Required t:	0.711 in
Mom of inertia:	0.08 in4		