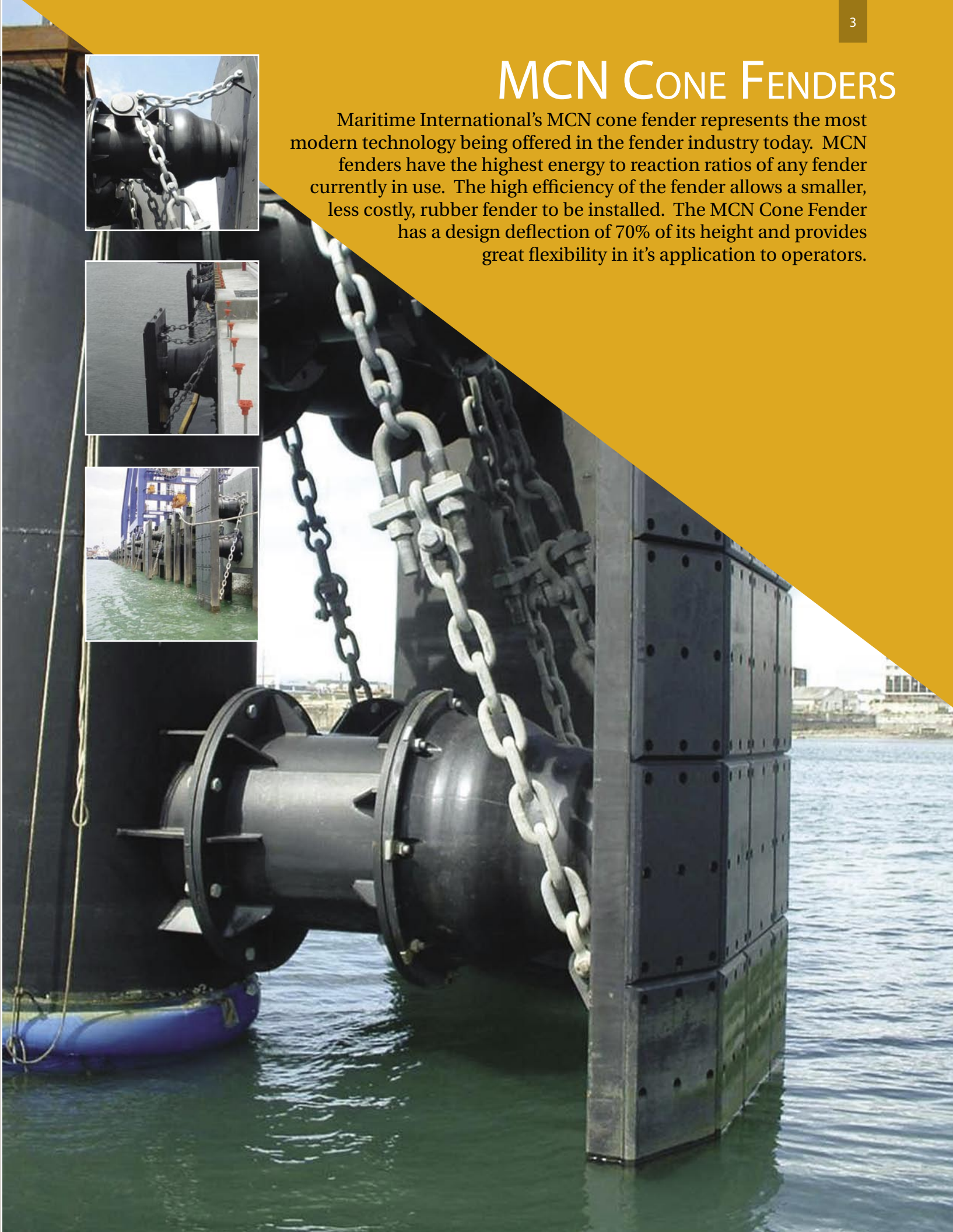


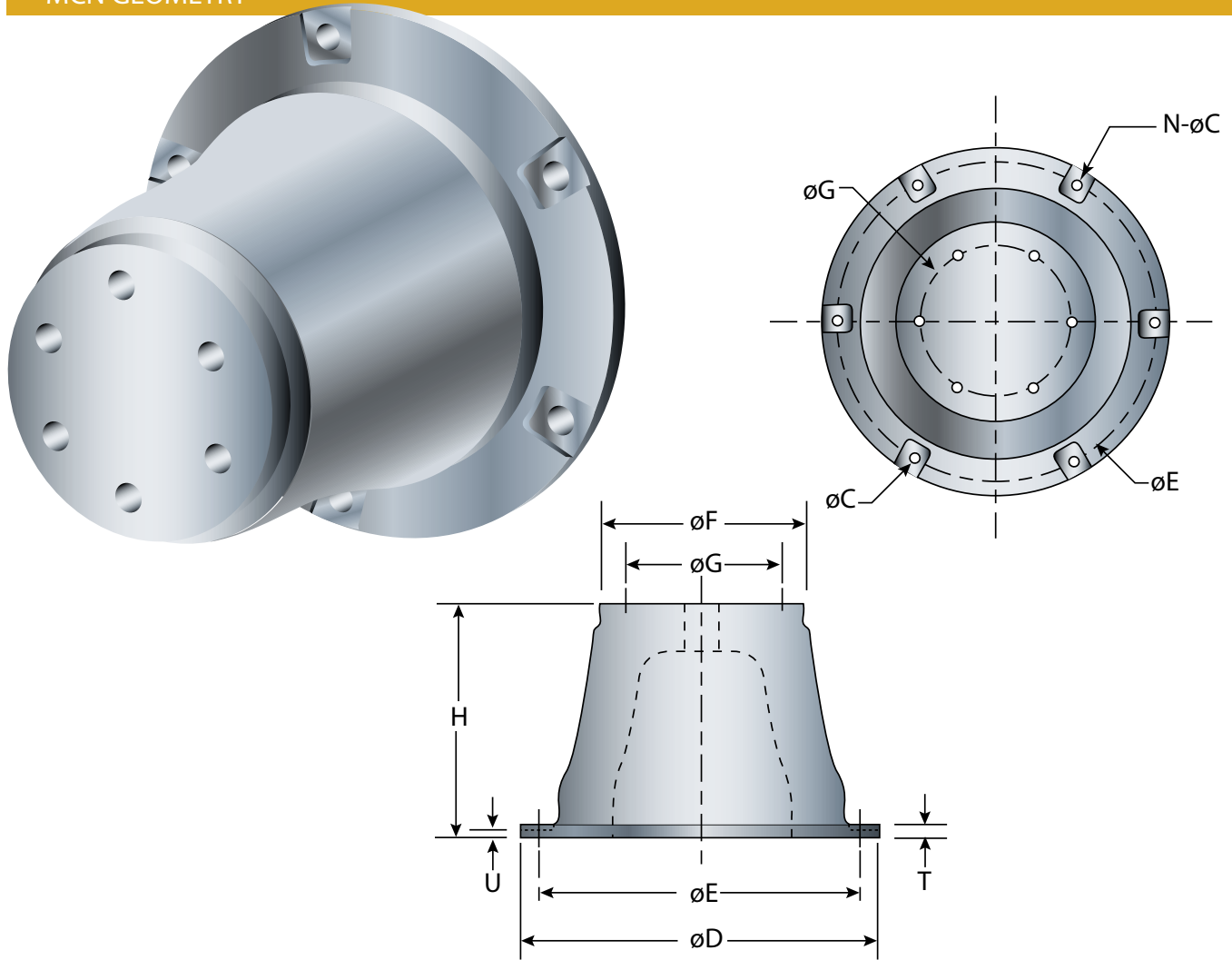
# MCN CONE FENDERS

Maritime International's MCN cone fender represents the most modern technology being offered in the fender industry today. MCN fenders have the highest energy to reaction ratios of any fender currently in use. The high efficiency of the fender allows a smaller, less costly, rubber fender to be installed. The MCN Cone Fender has a design deflection of 70% of its height and provides great flexibility in its application to operators.



## MCN CONE FENDERS

## MCN GEOMETRY

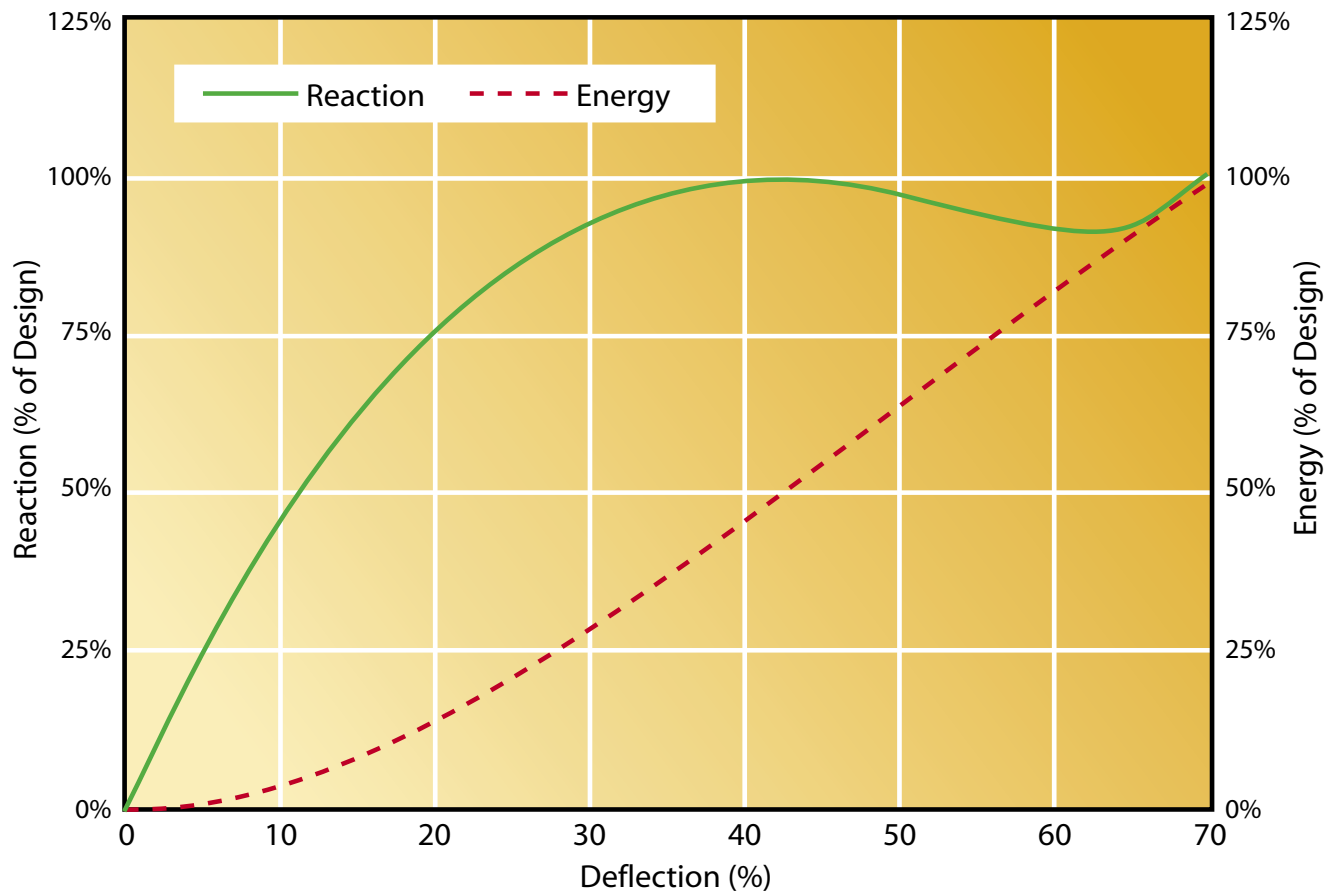


## MCN DIMENSIONS

Model	H		$\phi D$		$\phi E$ PCD		$\phi F$		$\phi G$ PCD		T	U	N- $\phi C$	Bolt Size	
	mm	in	mm	in	mm	in	mm	in	mm	in					
MCN 500	500	19.7	750	29.5	675	26.6	425	16.7	325	12.8	25	0.98	4-30	4-1.18	M24
MCN 600	600	23.6	900	35.4	810	31.9	510	20.1	390	15.4	27	1.06	6-30	6-1.18	M24
MCN 700	700	27.6	1050	41.3	945	37.2	595	23.4	455	17.9	32	1.26	6-38	6-1.50	M30
MCN 800	800	31.5	1200	47.2	1080	42.5	680	26.8	520	20.5	36	1.42	6-44	6-1.73	M36
MCN 900	900	35.4	1350	53.1	1215	47.8	765	30.1	585	23.0	41	1.61	6-44	6-1.73	M36
MCN 1000	1000	39.4	1500	59.1	1350	53.1	850	33.5	650	25.6	45	1.77	6-50	6-1.97	M42
MCN 1100	1100	43.3	1650	65.0	1485	58.5	935	36.8	715	28.1	50	1.97	6-50	6-1.97	M42
MCN 1150	1150	45.3	1725	67.9	1550	61.0	998	39.3	750	29.5	52	2.05	6-50	6-1.97	M42
MCN 1200	1200	47.2	1800	70.9	1620	63.8	1020	40.2	780	30.7	54	2.13	8-50	8-1.97	M42
MCN 1300	1300	51.2	1950	76.8	1755	69.1	1105	43.5	845	33.3	59	2.32	8-60	8-2.36	M48
MCN 1400	1400	55.1	2100	82.7	1890	74.4	1190	46.9	930	36.6	66	2.60	8-60	8-2.36	M48
MCN 1600	1600	63.0	2400	94.5	2160	85.0	1360	53.5	1060	41.7	72	2.83	8-70	8-2.76	M52

Other sizes available. Dimensions are subject to change. Verify current dimensions with Maritime when ordering any fender.

## MCN GENERIC PERFORMANCE CURVE



Intermediate grades can be interpolated from standard grades

## MCN PERFORMANCE

Model	Standard Rubber Grades														Weight			
	G4				G3				G2				G1					
	R		E		R		E		R		E		R		E		(kg)	(lbs)
kN	kips	kN-m	ft-kips	kN	kips	kN-m	ft-kips	kN	kips	kN-m	ft-kips	kN	kips	kN-m	ft-kips			
MCN 500	307	68.9	81.3	59.9	245	55.1	65.1	48.0	196	44.1	54.7	40.3	157	35.3	43.8	32.3	140	309
MCN 600	441	99.2	140	104	353	79.4	112	83.0	282	63.5	94.5	69.7	226	50.8	75.6	55.8	230	507
MCN 700	601	135	223	164	481	108	179	132	384	86.4	150	111	308	69.1	120	88.6	390	860
MCN 800	785	176	333	246	628	141	267	197	502	113	224	165	402	90.3	179	132	540	1190
MCN 900	993	223	474	350	794	179	380	280	636	143	319	235	508	114	255	188	755	1664
MCN 1000	1226	276	650	480	981	220	521	384	785	176	437	323	628	141	350	258	1020	2249
MCN 1100	1483	333	865	638	1187	267	693	511	950	214	582	429	760	171	466	344	1505	3318
MCN 1150	1621	365	989	729	1297	292	792	584	1038	233	665	491	830	187	532	393	1600	3527
MCN 1200	1765	397	1124	829	1412	317	900	664	1130	254	756	557	904	203	605	446	1960	4321
MCN 1300	2072	466	1428	1054	1657	373	1144	844	1326	298	961	709	1061	238	769	567	2400	5291
MCN 1400	2403	540	1784	1316	1922	432	1429	1054	1538	346	1200	885	1230	277	961	709	3060	6746
MCN 1600	3139	706	2663	1964	2511	564	2133	1573	2009	452	1792	1321	1607	361	1434	1058	4600	10141

R = reaction E = energy Values shown are for standard 70% deflection Maximum deflection = 72.5% R = 112% E = 104% Tolerance = +/- 10%

## MCN INTERMEDIATE RUBBER GRADES

Grade	Unit	500		600		700		800		900		1000		1100		1150		1200		1300		1400		1600	
		kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips	kN kN-m	lbs ft-kips
G0.7	R	145	32.7	209	47.0	285	64.1	372	83.6	470	106	581	131	703	158	768	173	836	188	982	221	1138	256	1486	334
	E	40.7	30.0	70.6	52.1	111	81.9	166	122	236	174	324	239	431	318	492	363	560	413	711	525	889	656	1327	978
G0.8	R	149	33.5	215	48.3	293	65.8	382	85.9	482	108	597	134	722	162	788	177	859	193	1008	227	1168	263	1527	343
	E	41.8	30.8	72.4	53.4	114	84.1	170	125	242	179	333	245	443	327	505	373	575	424	731	539	913	674	1362	1005
G0.9	R	153	34.4	220	49.5	300	67.5	392	88.1	495	111	612	138	741	167	809	182	881	198	1035	233	1199	270	1567	352
	E	42.9	31.6	74.2	54.7	117	86.3	175	129	249	183	341	252	454	335	519	383	590	435	750	553	937	691	1398	1031
G1	R	157	35.3	226	50.8	308	69.2	402	90.4	508	114	628	141	760	171	830	187	904	203	1061	239	1230	277	1607	361
	E	44.0	32.5	76.0	56.1	120	88.5	179	132	255	188	350	258	466	344	532	392	605	446	769	567	961	709	1434	1058
G1.1	R	161	36.2	232	52.1	316	70.9	412	92.6	521	117	644	145	779	175	851	191	927	208	1088	244	1261	283	1647	370
	E	45.1	33.3	77.8	57.4	123	90.7	184	135	261	193	359	265	478	352	545	402	620	457	788	581	985	726	1470	1084
G1.2	R	165	37.0	237	53.3	323	72.7	422	94.9	534	120	659	148	798	179	872	196	949	213	1114	250	1292	290	1687	379
	E	46.2	34.1	79.6	58.7	126	92.9	188	139	268	198	367	271	489	361	559	412	635	468	807	596	1009	744	1506	1110
G1.3	R	169	37.9	243	54.6	331	74.4	432	97.1	546	123	675	152	817	184	892	201	972	218	1141	256	1322	297	1728	388
	E	47.3	34.9	81.4	60.0	129	95.1	193	142	274	202	376	277	501	369	572	422	650	480	827	610	1033	762	1541	1137
G1.4	R	173	38.8	248	55.8	338	76.1	442	99.4	559	126	691	155	836	188	913	205	994	224	1167	262	1353	304	1768	397
	E	48.4	35.7	83.2	61.4	132	97.4	197	145	281	207	385	284	512	378	585	432	665	491	846	624	1057	779	1577	1163
G1.5	R	177	39.7	254	57.1	346	77.8	452	102	572	129	707	159	855	192	934	210	1017	229	1194	268	1384	311	1808	406
	E	49.5	36.5	85.0	62.7	135	99.6	202	149	287	212	394	290	524	386	599	441	681	502	865	638	1081	797	1613	1190
G1.6	R	180	40.6	260	58.4	354	79.5	462	104	585	131	722	162	874	196	955	215	1040	234	1220	274	1415	318	1848	415
	E	50.6	37.3	86.8	64.0	138	102	206	152	293	216	402	297	536	395	612	451	696	513	884	652	1104	815	1649	1216
G1.7	R	184	41.4	265	59.6	361	81.2	472	106	598	134	738	166	893	201	976	219	1062	239	1247	280	1446	325	1888	425
	E	51.7	38.1	88.6	65.3	141	104	211	155	300	221	411	303	547	404	625	461	711	524	903	666	1128	832	1685	1242
G1.8	R	188	42.3	271	60.9	369	82.9	482	108	610	137	754	169	912	205	996	224	1085	244	1273	286	1476	332	1929	434
	E	52.8	38.9	90.4	66.7	144	106	215	159	306	226	420	309	559	412	638	471	726	535	923	680	1152	850	1720	1269
G1.9	R	192	43.2	276	62.1	376	84.6	492	111	623	140	769	173	931	209	1017	229	1107	249	1300	292	1507	339	1969	443
	E	53.9	39.8	92.2	68.0	147	108	220	162	313	231	428	316	570	421	652	481	741	546	942	695	1176	867	1756	1295
G2	R	196	44.1	282	63.4	384	86.3	502	113	636	143	785	176	950	214	1038	233	1130	254	1326	298	1538	346	2009	452
	E	55.0	40.6	94.0	69.3	150	111	224	165	319	235	437	322	582	429	665	490	756	558	961	709	1200	885	1792	1322
G2.1	R	201	45.2	289	65.0	394	88.5	515	116	652	147	805	181	974	219	1064	239	1158	260	1359	306	1576	354	2059	463
	E	56.0	41.3	95.8	70.7	153	113	228	168	325	240	445	329	593	437	678	500	770	568	979	722	1223	902	1826	1347
G2.2	R	206	46.3	296	66.6	403	90.7	527	119	668	150	824	185	997	224	1090	245	1186	267	1392	313	1615	363	2109	474
	E	57.0	42.0	97.6	72.0	156	115	233	172	331	244	454	335	604	446	690	509	785	579	998	736	1246	919	1860	1372
G2.3	R	211	47.4	303	68.2	413	92.9	540	121	683	154	844	190	1021	230	1116	251	1215	273	1425	320	1653	372	2160	485
	E	58.0	42.8	99.4	73.3	159	117	237	175	337	249	462	341	615	454	703	519	799	589	1016	749	1269	936	1894	1397
G2.4	R	216	48.5	310	69.8	423	95.0	552	124	699	157	863	194	1045	235	1142	257	1243	279	1458	328	1692	380	2210	497
	E	59.0	43.5	101	74.6	162	119	241	178	343	253	471	347	626	462	716	528	814	600	1034	763	1292	953	1928	1422
G2.5	R	221	49.6	318	71.4	433	97.2	565	127	715	161	883	199	1069	240	1168	262	1271	286	1492	335	1730	389	2260	508
	E	60.0	44.3	103	76.0	165	121	246	181	350	258	479	353	638	470	729	537	828	611	1053	776	1315	970	1963	1447
G2.6	R	225	50.7	325	73.0	442	99.4	578	130	731	164	903	203	1092	246	1193	268	1299	292	1525	343	1768	398	2310	519
	E	61.0	45.0	105	77.3	167	123	250	184	356	262	487	359	649	478	741	547	842	621	1071	790	1337	986	1997	1473
G2.7	R	230	51.8	332	74.6	452	102	590	133	747	168	922	207	1116	251	1219	274	1327	298	1558	350	1807	406	2360	531
	E	62.0	45.7	107	78.6	170	126	254	187	362	267	496	366	660	487	754	556	857	632	1089	803	1360	1003	2031	1498
G2.8	R	235	52.9	339	76.2	462	104	603	136	762	171	942	212	1140	256	1245	280	1356	305	1591	358	1845	415	2411	542
	E	63.0	46.5	108	80.0	173	128	258	191	368	271	504	372	671	495	767	565	871	643	1107	817	1383	1020	2065	1523
G2.9	R	240	54.0	346	77.8	471	106	615	138	778	175	961	216	1163	262	1271	286	1384	311	1624	365	1884	423	2461	553
	E	64.0	47.2	110	81.3	176	130	263	194	374	276	513	378	682	503	779	575	886	653	1126	830	1406	1037	2099	1548
G3	R	245	55.1	353	79.4	481	108	628	141	794	178	981	221	1187	267	1297	292	1412	317	1657	373	1922	432	2511	564
	E	65.0	47.9	112	82.6	179	132	267	197	380	280	521	384	693	511	792	584	900	664	1144	844	1429	1054	2133	1573
G3.1	R	251	56.5	362	81.3	493	111	644	145	814	183	1006	226	1217											