



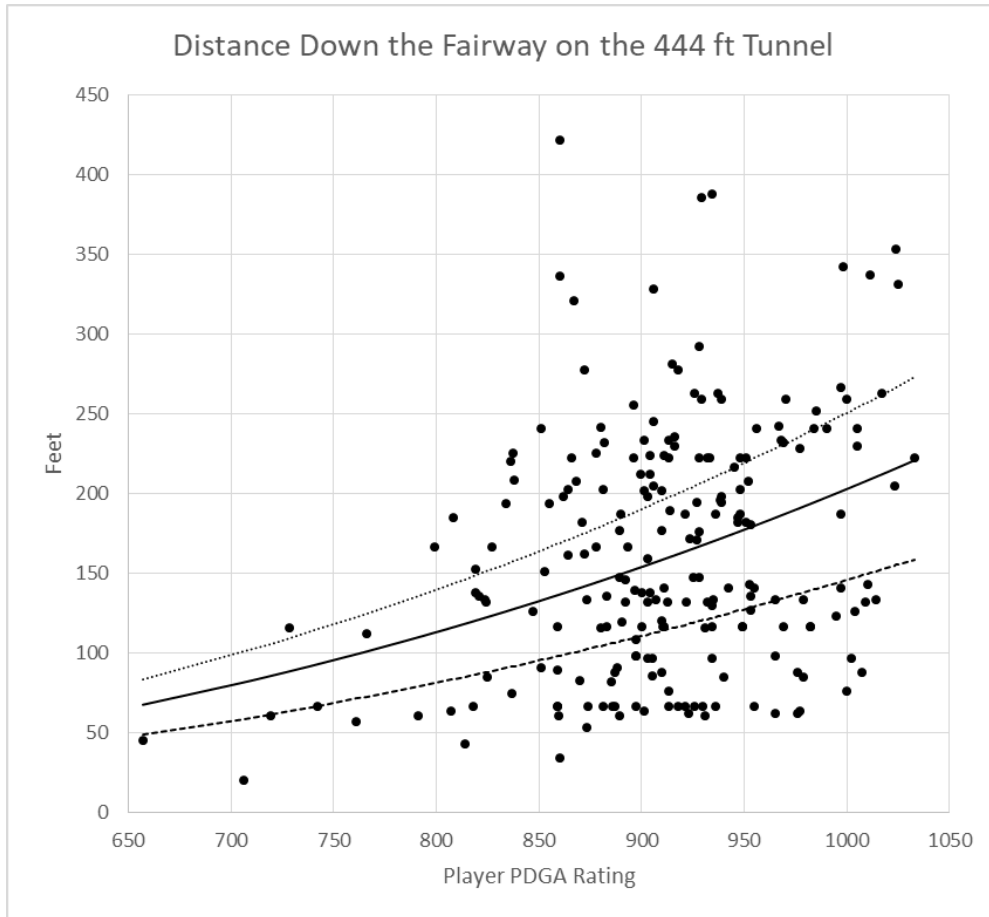
# Accuracy of Disc Golf Throws in a Corridor

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The graphic on the previous page shows - to scale - all of the 212 recorded throws on the infamous 444 foot long corridor hole at Blue Ribbon Pines. The data was collected from the Am and Pro (non-rainy parts) weekends of The Majestic 2018.

This chart shows the distance each throw got down the fairway before touching the edge (by either hitting a tree or going off-fairway between them), by PDGA Rating. The lines are where 67%, 50% and 33% of the throws make it that far.



Here are the distances where half and two-thirds of the players will get at least that far, by skill level.

Rating	50%	67%
800	113	81
850	133	95
900	154	111
950	177	127
1000	203	146
1050	231	166

So, if you feel that two-thirds of the players for whom the hole is designed should be able to successfully execute the throw, a 13.1 foot wide corridor should be no longer than 127 feet for Blue=950 rated players.

### Other Widths

To extrapolate to other corridor widths, just multiply the above lengths by the width of the corridor, divided by 13.12. Here are some pre-calculated lengths:

50%	5	10	13.12	15	20	25	30
800	43	86	113	129	172	215	258
850	50	101	133	151	202	252	303
900	59	117	154	176	235	293	352
950	68	135	177	203	270	338	406
1000	77	155	203	232	309	387	464
1050	88	176	231	264	351	439	527

67%	5	10	13.12	15	20	25	30
800	31	62	81	93	124	155	186
850	36	73	95	109	145	181	218
900	42	84	111	126	169	211	253
950	49	97	127	146	194	243	291
1000	56	111	146	167	222	278	333
1050	63	126	166	189	252	316	379

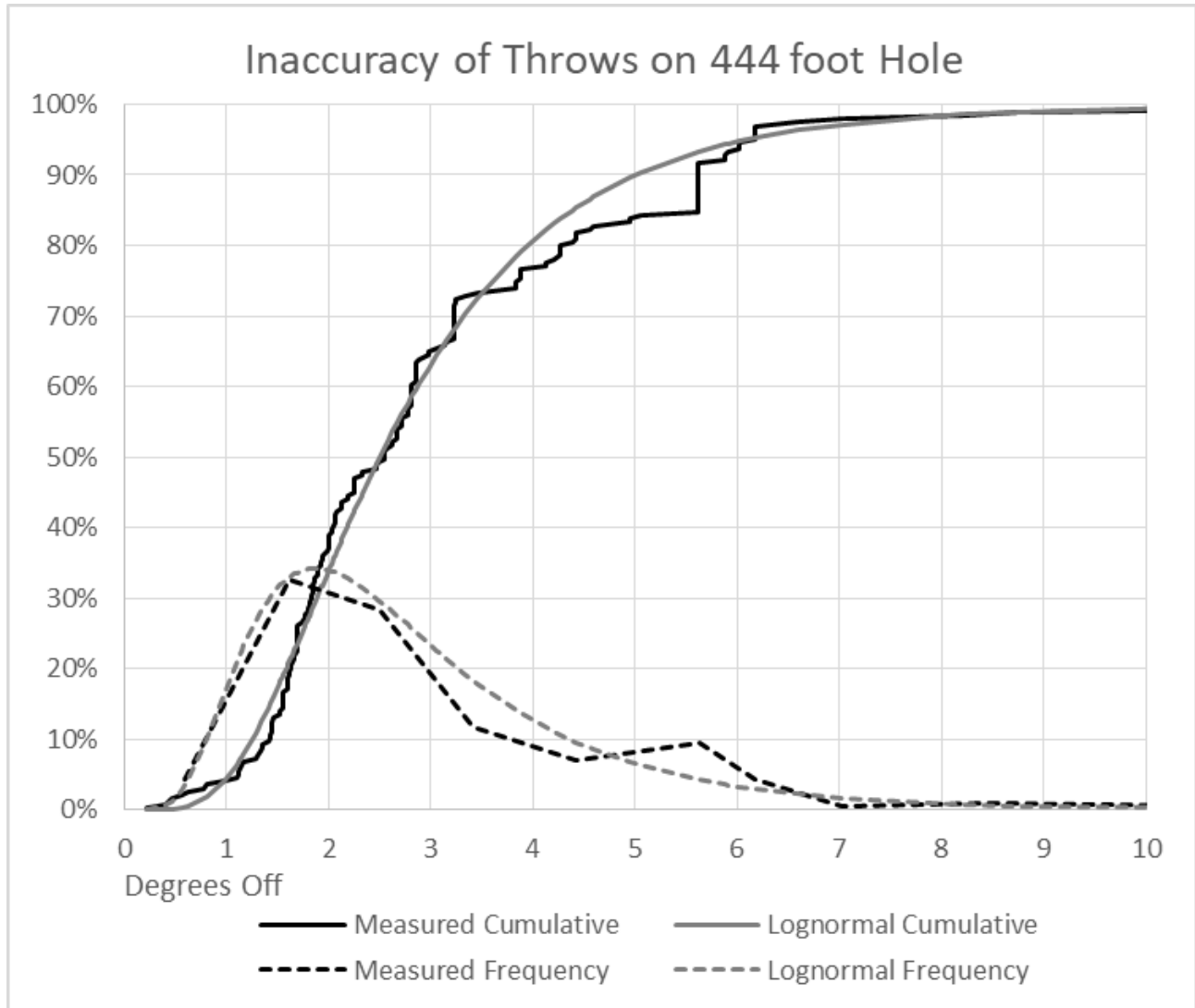
### Angles

This table shows the degrees off-center that players of each rating were able to achieve:

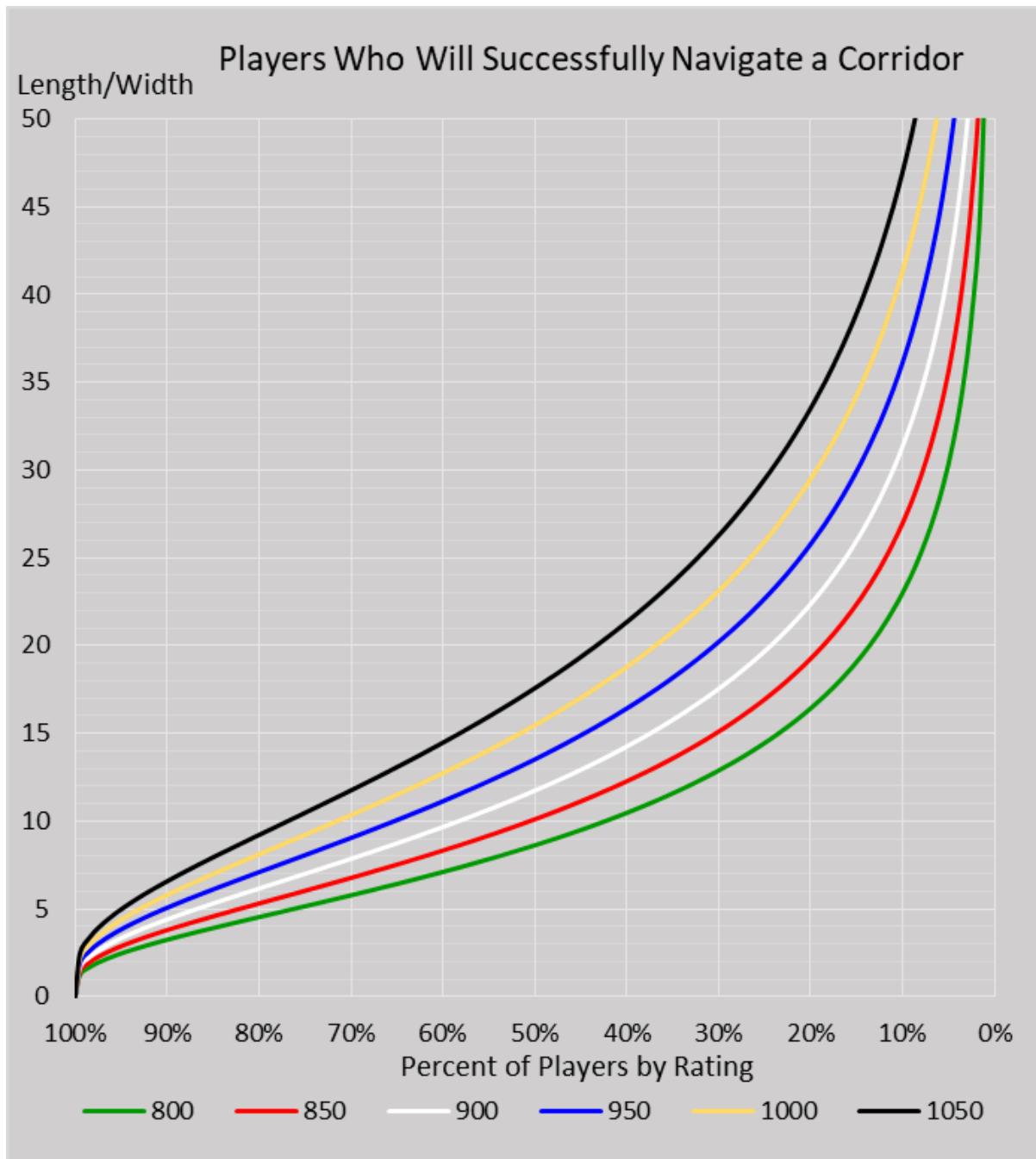
Rating	50%	67%
800	3.3°	4.6°
850	2.8°	3.9°
900	2.4°	3.4°
950	2.1°	2.9°
1000	1.9°	2.6°
1050	1.6°	2.3°

For 950-rated players, two-thirds could get within 2.9 degrees of center, and only half could get within 2.1 degrees of center.

We can fit a lognormal distribution to the degrees off-center. This is better than simply fitting a normal distribution to the angles, because it preserves the gap in the middle that is always observed when measuring disc golf accuracy.



By setting the parameters of lognormal distributions of degrees off-center to match the calculated distances for 50% and 67%, we can generate the following chart. This chart shows percent of players who will get to a certain distance before hitting the wall of a straight corridor.



So, if you feel that two-thirds of the players for whom the hole is designed should be able to successfully execute the throw, a corridor should be no longer than about 10 times the width for Blue=950 rated players.

Data

Rating	x feet	y feet	Rating	x feet	y feet	Rating	x feet	y feet	Rating	x feet	y feet	Rating	x feet	y feet
657	6.5	45	868	6.6	207	903	-6.6	97	928	6.6	176	965	-6.6	62
706	6.6	20	870	6.6	82	903	-6.6	132	928	-6.6	223	965	6.6	98
719	-6.6	61	871	-6.6	182	903	-5.0	159	928	-6.6	292	965	6.6	133
729	-5.0	116	872	6.6	162	903	6.6	198	929	-6.6	259	967	6.6	242
742	-6.6	67	872	-6.6	278	904	6.6	138	929	-6.6	386	968	-6.6	234
761	6.6	57	873	-6.6	53	904	6.6	212	930	-6.6	67	969	-6.6	116
766	-6.6	112	873	6.6	133	904	3.0	224	931	-6.6	61	969	6.6	232
791	-6.6	61	874	6.6	67	905	6.6	85	931	6.6	116	970	6.6	259
799	-6.6	167	878	-6.6	167	905	-6.6	97	932	-6.6	132	976	-6.6	62
807	6.6	63	878	6.6	225	906	-6.6	205	932	-6.6	223	976	-6.6	88
808	6.6	185	880	6.6	116	906	6.6	246	933	-6.6	223	977	-6.6	64
814	-6.6	43	880	6.4	242	906	-6.6	328	934	-6.6	97	977	6.6	229
818	-6.6	67	881	-6.6	67	907	6.6	133	934	-6.6	116	979	-6.6	85
819	6.6	138	881	6.6	203	910	-6.6	88	934	6.6	130	979	6.6	133
819	6.6	152	882	6.6	232	910	-6.6	120	934	-3.0	388	982	-6.6	116
821	-6.6	135	883	-6.6	116	910	-6.6	177	935	6.6	133	982	-6.6	116
824	-6.6	132	883	-6.6	135	910	-6.6	201	936	-6.6	67	984	-6.6	241
824	6.6	133	885	-6.6	82	911	-6.6	116	936	-6.6	187	985	2.7	252
825	-6.6	85	886	-6.6	67	911	-6.6	116	937	1.0	263	990	-6.6	241
827	6.6	167	887	6.6	67	911	-6.6	141	938	-5.0	196	995	6.6	123
834	6.6	194	887	-6.6	88	911	1.8	224	939	-6.6	194	997	-6.6	141
836	5.0	220	888	-6.6	91	913	-6.6	67	939	-6.6	198	997	-6.6	187
837	-6.6	74	889	-6.6	61	913	-6.6	76	939	6.6	259	997	-6.6	267
838	-6.6	209	889	6.6	148	913	-6.6	132	940	-6.6	85	998	-6.6	342
838	6.6	225	889	-6.6	177	913	-6.6	223	942	-6.6	141	1000	-6.6	76
847	6.6	126	890	-6.6	187	913	-6.6	234	945	6.6	216	1000	6.6	259
851	-6.6	91	891	6.6	119	914	6.6	190	947	-6.6	182	1002	-6.6	97
851	-6.6	241	892	-6.6	132	915	-6.6	281	947	6.6	185	1004	6.6	126
853	-6.6	151	892	-6.6	146	916	-6.6	230	948	-6.6	187	1005	-6.6	230
855	6.6	194	893	-6.6	167	916	6.6	235	948	6.6	203	1005	-6.6	241
859	-6.6	67	896	-6.6	223	918	-6.6	67	948	-6.6	223	1007	-6.6	88
859	-6.6	67	896	2.5	256	918	-6.6	278	949	-6.6	116	1009	-6.6	132
859	-6.6	89	897	6.6	67	921	-6.6	67	949	-6.6	116	1010	6.6	143
859	-6.6	116	897	6.6	98	921	-6.6	187	951	-6.6	182	1011	-6.6	337
860	6.6	34	897	6.6	98	922	-6.6	132	951	-6.6	223	1014	6.6	133
860	-6.6	61	897	-6.6	108	923	-6.6	62	952	6.6	207	1017	6.6	263
860	6.6	337	897	5.0	139	924	-6.6	172	953	-5.0	127	1023	-6.6	205
860	3.0	422	900	-6.6	116	925	6.6	148	953	-6.6	135	1024	-5.0	353
862	-6.6	198	900	6.6	138	926	6.6	67	953	6.6	143	1025	6.6	332
864	-6.6	161	900	-6.6	212	926	-6.6	263	953	6.6	181	1033	-6.6	223
864	6.6	203	901	-6.6	64	927	6.6	171	955	-6.6	67			
866	-6.6	223	901	-6.6	201	927	-6.6	194	955	-6.6	141			
867	6.6	321	901	-6.6	234	928	6.6	148	956	-6.6	241			