

Gunnery log for Lion

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
17:05	21,474	-1,162	1 AP		Seydlitz
17:07	19,225	-1,052	1 AP		Seydlitz
17:08	18,167	-1,046	1 AP		Seydlitz
17:09	17,115	-1,039	1 AP		Seydlitz
17:10	16,070	-1,031	7 AP		Seydlitz
17:11	15,066	-988	9 AP		Seydlitz
17:12	14,925	-72	9 AP		Seydlitz
17:13	14,923	11	8 AP	1 hit	Seydlitz
17:14	14,991	116	9 AP		Seydlitz
17:15	15,167	227	8 AP		Seydlitz
17:16	15,457	340	8 AP		Seydlitz
17:17	15,149	-253	8 AP		Seydlitz
17:18	14,949	-127	8 AP		Seydlitz
17:19	14,875	-18	9 AP		Seydlitz
17:20	14,916	101	8 AP	1 hit	Seydlitz
17:21	15,080	225	9 AP		Seydlitz
17:22	15,233	216	8 AP		Seydlitz
17:23	15,515	344	8 AP		Seydlitz
17:24	15,919	463	8 AP		Seydlitz
17:25	16,447	584	7 AP	1 hit	Seydlitz
17:26	17,084	687	7 AP		Seydlitz
17:27	17,616	585	6 AP		Seydlitz
17:28	18,267	701	5 AP		Seydlitz
17:29	19,014	791	5 AP		Seydlitz
17:30	19,846	871	4 AP		Seydlitz
17:31	20,753	941	4 AP		Seydlitz
17:34	19,261	-565	1 AP		Seydlitz
17:35	18,663	-598	5 AP		Seydlitz
17:36	18,031	-632	6 AP		Seydlitz
17:37	17,675	-356	6 AP		Seydlitz
17:38	17,302	-378	6 AP		Seydlitz
17:39	16,913	-389	7 AP		Seydlitz
17:40	16,525	-389	7 AP		Seydlitz
17:41	16,115	-410	8 AP		Seydlitz
17:42	15,746	-369	8 AP		Seydlitz
17:43	15,387	-359	6 AP		Seydlitz
17:44	15,017	-370	7 AP		Seydlitz
17:45	14,658	-359	7 AP		Seydlitz
17:46	14,299	-359	9 AP		Seydlitz
17:47	14,587	290	9 AP		Seydlitz
17:48	14,893	297	9 AP		Seydlitz
17:49	15,202	309	6 HE		Seydlitz
17:50	15,515	314	5 HE		Seydlitz
17:51	15,829	315	8 HE		Seydlitz

17:52	16,145	316	1 HE		Seydlitz
17:53	16,466	322	7 HE		Seydlitz
17:54	16,788	323	7 HE		Seydlitz
17:55	17,112	324	7 HE		Seydlitz
17:56	17,437	326	6 HE		Seydlitz
17:57	16,741	-695	1 HE		Seydlitz
17:58	16,054	-604	8 HE		Seydlitz
17:59	15,436	-617	8 HE		Seydlitz
18:00	14,819	-617	9 HE		Seydlitz
18:01	14,181	-638	9 HE		Seydlitz
18:02	13,979	-200	9 HE		Seydlitz
18:03	13,781	-193	9 HE		Seydlitz
18:04	13,588	-192	9 HE	1 hit	Seydlitz
18:05	13,397	-189	10 HE	1 hit	Seydlitz
18:06	13,209	-186	9 HE		Seydlitz
18:07	13,025	-182	9 HE		Seydlitz
18:08	12,845	-178	9 HE		Seydlitz
18:09	12,671	-171	10 HE	1 hit	Seydlitz
18:10	12,784	114	9 HE		Seydlitz
18:11	12,900	117	9 HE		Seydlitz
18:12	13,032	135	9 HE	2 hits	Seydlitz
18:13	13,198	169	9 HE		Seydlitz
18:14	13,699	501	8 HE		Seydlitz
18:15	14,201	445	8 HE		Seydlitz
		Total	475 shells	8 hits	

Gunnery log for Tiger

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
17:06	20,618	-1,211	1 AP		Seydlitz
17:08	18,398	-1,015	1 AP		Seydlitz
17:09	17,330	-1,027	1 AP		Seydlitz
17:10	16,267	-1,037	1 AP		Seydlitz
17:12	15,057	-118	1 AP		Seydlitz
17:13	15,008	-28	6 AP		Seydlitz
17:14	15,035	76	6 AP		Seydlitz
17:15	15,171	186	6 AP		Seydlitz
17:16	15,420	300	6 AP		Seydlitz
17:17	15,301	-64	6 AP		Seydlitz
17:18	14,999	-168	5 AP		Seydlitz
17:19	14,882	-61	7 AP		Seydlitz
17:20	14,878	56	6 AP		Seydlitz
17:21	14,997	181	6 AP		Seydlitz
17:22	15,105	172	6 AP		Seydlitz
17:23	15,343	302	5 AP		Seydlitz
17:24	15,707	424	6 AP		Seydlitz
17:25	16,197	549	5 AP		Seydlitz
17:26	16,801	655	5 AP		Seydlitz
17:27	17,504	750	5 AP		Seydlitz
17:28	18,069	667	4 AP		Seydlitz
17:29	18,784	761	4 AP		Seydlitz
17:30	19,588	844	3 AP		Seydlitz
17:31	20,470	918	2 AP		Seydlitz
17:32	20,296	-138	3 AP		Seydlitz
17:33	20,015	176	1 AP		Seydlitz
17:35	18,852	-585	1 AP		Seydlitz
17:37	17,568	-652	1 AP		Seydlitz
17:38	17,232	-378	4 AP		Seydlitz
17:39	16,835	-389	6 AP		Seydlitz
17:40	16,446	-389	6 AP		Seydlitz
17:41	16,037	-409	6 AP		Seydlitz
17:42	15,628	-409	6 AP		Seydlitz
17:43	15,269	-357	6 AP		Seydlitz
17:44	14,893	-367	7 AP	1 hit	Seydlitz
17:45	14,528	-357	7 AP rapid		Seydlitz
17:46	14,172	-356	5 AP		Seydlitz
17:47	14,414	244	5 AP		Seydlitz
17:48	14,739	301	4 AP		Seydlitz
17:49	15,050	312	4 AP		Seydlitz
17:50	15,368	318	4 AP		Seydlitz
17:51	15,685	318	5 AP		Seydlitz
17:52	15,760	318	1 AP		Seydlitz
17:53	16,084	325	1 AP		Seydlitz

17:54	16,409	326	1 AP	Seydlitz
17:56	17,063	328	1 AP	Seydlitz
17:58	15,885	-605	1 AP	Seydlitz
17:59	15,268	-617	1 AP	Seydlitz
18:00	14,651	-617	1 AP	Seydlitz
18:01	14,015	-636	1 AP	Seydlitz
18:02	13,821	-192	1 AP	Seydlitz
18:04	13,453	-191	1 AP	Moltke
18:05	13,262	-190	1 AP	Moltke
18:06	13,073	-186	1 AP	Moltke
18:09	12,608	-132	1 AP	Moltke
		Total	198 shells	1 hit

Gunnery log for Princess Royal

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
17:07	19,755	-1,192	1 AP		Seydlitz
17:09	17,556	-1,042	1 AP		Seydlitz
17:10	16,476	-1,054	1 AP		Seydlitz
17:11	15,434	-1,030	7 AP		Seydlitz
17:12	15,204	-163	1 AP		Seydlitz
17:13	15,108	-66	7 AP		Seydlitz
17:14	15,096	36	5 AP		Seydlitz
17:15	15,046	97	6 AP		Moltke
17:16	15,214	210	5 AP		Moltke
17:17	15,487	323	5 AP		Moltke
17:18	15,165	-264	5 AP		Moltke
17:19	14,963	-143	5 AP		Moltke
17:20	14,870	-32	5 AP		Moltke
17:21	14,897	89	6 AP		Moltke
17:22	15,050	214	5 AP		Moltke
17:23	15,156	211	5 AP		Moltke
17:24	15,432	340	5 AP		Moltke
17:25	15,840	462	5 AP		Moltke
17:26	16,368	584	5 AP		Moltke
17:27	17,005	687	4 AP		Moltke
17:28	17,653	583	4 AP		Moltke
17:29	18,303	700	4 AP		Moltke
17:30	19,049	790	3 AP		Moltke
17:34	19,954	-47	1 AP		Moltke
17:36	18,724	-651	1 AP		Moltke
17:38	17,346	-678	1 AP		Moltke
17:39	17,073	-368	1 AP		Moltke
17:40	16,685	-388	4 AP		Moltke
17:41	16,276	-388	5 AP		Moltke
17:42	15,867	-409	5 AP	1 hit	Moltke
17:43	15,458	-409	5 AP		Moltke
17:44	15,081	-347	5 AP		Moltke
17:45	14,708	-356	5 AP		Moltke
17:46	14,352	-356	6 AP		Moltke
17:47	14,004	-348	5 AP		Moltke
17:48	14,498	254	5 AP		Moltke
17:49	14,835	312	4 AP		Moltke
17:50	15,152	312	5 AP		Moltke
17:51	15,469	318	4 AP		Moltke
17:52	15,301	317	5 AP	1 hit	Moltke
17:53	15,623	318	8 AP		Moltke
17:54	15,947	325	7 AP		Moltke
17:55	16,366	330	1 AP		Seydlitz
17:56	16,697	331	1 AP		Seydlitz

17:57	16,413	-693	1 AP		Seydlitz
17:58	15,730	-606	1 AP		Seydlitz
17:59	15,114	-615	7 AP		Seydlitz
18:00	14,499	-615	8 AP		Seydlitz
18:01	13,865	-634	8 AP	1 hit	Seydlitz
18:02	13,679	-184	8 AP		Seydlitz
18:03	13,497	-182	8 AP		Seydlitz
18:04	13,317	-178	8 AP		Seydlitz
18:05	13,141	-175	8 AP		Seydlitz
18:06	12,970	-169	9 AP		Seydlitz
18:07	12,905	-173	8 AP		Seydlitz
18:08	12,734	-169	8 AP	3 hits	Seydlitz
18:09	12,571	-160	8 HE		Seydlitz
18:10	12,691	122	8 HE		Seydlitz
18:11	12,815	125	8 HE		Seydlitz
18:12	12,956	143	7 HE	1 hit	Seydlitz
18:13	13,133	180	4 HE		Seydlitz
18:14	13,633	501	4 HE		Seydlitz
18:15	14,134	443	4 HE		Seydlitz
		Total	309 shells	7 hits	

Gunnery log for New Zealand

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
17:10	18,266	-1,190	1 AP		Moltke
17:11	17,053	-1,202	1 AP		Moltke
17:12	15,892	-1,148	1 AP		Moltke
17:13	15,777	-287	10 AP	1 hit	Moltke
17:14	15,560	-172	8 AP		Moltke
17:15	15,446	-68	8 AP		Moltke
17:16	15,444	46	10 AP		Moltke
17:17	15,469	78	8 AP		Moltke
17:18	14,994	-293	8 AP		Moltke
17:19	14,744	-184	8 AP		Moltke
17:20	14,709	-143	10 AP		Moltke
17:21	14,847	-1	9 AP		Moltke
17:22	14,908	124	8 AP		Moltke
17:23	14,919	122	10 AP	1 hit	Moltke
17:24	15,107	254	9 AP		Moltke
17:25	15,430	383	8 AP		Moltke
17:26	15,881	511	6 AP		Moltke
17:27	16,661	824	3 AP		Moltke
17:28	17,342	510	5 AP		Moltke
17:29	17,920	607	7 AP		Moltke
17:30	18,587	712	4 AP		Moltke
17:35	18,392	-561	7 AP		Moltke
17:36	17,767	-593	8 AP		Moltke
17:37	17,530	-213	5 AP	1 hit	Moltke
17:38	17,268	-254	6 AP		Moltke
17:39	16,983	-261	6 AP		Moltke
17:40	16,698	-285	6 AP	1 hit	Moltke
17:41	16,390	-284	7 AP		Moltke
17:42	16,082	-308	7 AP		Moltke
17:43	15,774	-307	7 AP	1 hit	Moltke
17:44	15,444	-306	6 AP		Moltke
17:45	15,115	-329	8 AP		Moltke
17:46	14,787	-327	7 AP	1 hit	Moltke
17:47	14,476	-311	7 AP		Moltke
17:48	14,981	280	6 AP		Moltke
17:49	15,261	282	10 AP	3 hits	Moltke
17:50	15,546	285	9 AP	1 hit	Moltke
17:51	15,835	291	8 HE		Moltke
17:52	15,841	-513	3 HE		Moltke
17:53	15,333	-263	4 HE		Moltke
17:54	15,359	-41	5 HE		Moltke
17:55	15,462	292	9 HE	1 hit	Moltke
17:56	15,802	300	9 HE		Moltke
17:57	16,541	750	2 HE		Moltke

17:58	15,704	-626	1 HE		Moltke
17:59	15,112	-562	10 HE	1 hit	Moltke
18:00	14,489	-590	11 HE		Moltke
18:01	13,847	-601	11 HE		Moltke
18:02	13,207	-629	12 HE	1 hit	Moltke
18:03	13,202	-172	8 HE		Moltke
18:04	13,030	-173	12 HE		Moltke
18:05	12,861	-167	8 HE		Moltke
18:06	12,699	-163	9 HE		Moltke
18:07	12,542	-155	6 HE		Moltke
18:08	12,390	-149	6 HE	1 hit	Moltke
18:09	12,248	-143	9 HE		Moltke
18:10	12,222	138	9 HE	3 hits	Moltke
18:11	12,362	141	9 HE	1 hit	Moltke
18:12	12,505	144	9 HE		Moltke
18:13	12,704	166	9 HE	1 hit	Moltke
18:14	13,049	495	9 HE		Moltke
18:15	13,544	436	9 HE		Moltke
		Total	451 shells	19 hits	

Gunnery log for Indomitable

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
17:10	18,061	-1,237	1 AP		Seydlitz
17:11	16,832	-1,218	1 AP		Seydlitz
17:13	15,980	-273	6 AP		Seydlitz
17:14	15,758	-167	4 AP		Seydlitz
17:15	15,509	-142	5 AP		Derfflinger
17:16	15,425	-29	5 AP		Derfflinger
17:17	15,460	93	5 AP		Derfflinger
17:19	14,925	-278	6 AP		Derfflinger
17:20	14,853	-236	5 AP		Derfflinger
17:21	14,881	-93	5 AP	1 hit	Derfflinger
17:22	14,851	36	5 AP		Derfflinger
17:23	14,860	26	6 AP		Derfflinger
17:24	14,954	162	5 AP		Derfflinger
17:25	15,185	299	5 AP	1 hit	Derfflinger
17:26	15,550	435	5 AP		Derfflinger
17:27	16,056	576	5 AP		Derfflinger
17:28	17,026	445	4 AP		Derfflinger
17:29	17,529	574	5 AP		Derfflinger
17:30	18,130	679	4 AP		Derfflinger
17:36	18,255	-593	4 AP		Derfflinger
17:37	17,613	-617	4 AP		Derfflinger
17:38	17,378	-237	4 AP		Derfflinger
17:39	17,093	-277	5 AP		Derfflinger
17:40	16,808	-284	5 AP		Derfflinger
17:41	16,500	-308	5 AP		Derfflinger
17:42	16,193	-307	6 AP		Derfflinger
17:43	15,886	-330	5 AP		Derfflinger
17:44	15,556	-329	6 AP		Derfflinger
17:45	15,228	-328	6 AP		Derfflinger
17:46	14,901	-349	7 AP		Derfflinger
17:47	14,567	-333	6 AP		Derfflinger
17:48	14,752	280	5 AP		Derfflinger
17:49	15,032	281	6 AP		Derfflinger
17:50	15,316	287	6 AP	1 hit	Derfflinger
17:51	15,605	290	5 AP		Derfflinger
17:52	15,136	-458	4 AP		Derfflinger
17:53	14,726	-282	4 AP		Derfflinger
17:54	14,892	-291	3 AP		Derfflinger
17:55	14,992	296	4 AP		Derfflinger
17:56	15,331	305	7 AP		Derfflinger
17:57	15,937	737	2 AP		Derfflinger
17:58	15,848	-624	1 AP		Derfflinger
17:59	15,257	-561	6 AP		Derfflinger
18:00	14,634	-590	6 AP		Derfflinger

18:01	13,993	-618	8 AP		Derfflinger
18:02	13,353	-629	9 AP		Derfflinger
18:03	13,065	-170	9 AP		Derfflinger
18:04	12,893	-171	9 AP		Derfflinger
18:05	12,724	-164	9 AP	1 hit	Derfflinger
18:06	12,562	-160	9 AP		Derfflinger
18:07	12,404	-150	9 AP	2 hits	Derfflinger
18:08	12,252	-145	9 AP		Derfflinger
18:09	12,111	-138	9 AP		Derfflinger
18:10	11,923	157	9 AP	1 hit	Derfflinger
18:11	12,064	160	9 HE	3 hits	Derfflinger
18:12	12,208	163	9 HE	1 hit	Derfflinger
18:13	12,409	186	9 HE	1 hit	Derfflinger
18:14	12,590	494	7 HE		Derfflinger
18:15	13,084	434	7 HE		Derfflinger
		Total	339 shells	12 hits	

Gunnery log for Seydlitz

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
17:07	19,225	-1,052	1 AP		Lion
17:08	18,167	-1,046	2 AP		Lion
17:09	17,115	-1,039	2 AP		Lion
17:10	16,070	-1,031	2 AP		Lion
17:11	15,066	-988	2 AP		Lion
17:12	14,925	-72	8 AP		Lion
17:13	14,923	11	10 AP	1 hit	Lion
17:14	14,991	116	11 AP	1 hit	Lion
17:15	15,167	227	10 AP	1 hit	Lion
17:16	15,457	340	8 AP	1 hit	Lion
17:17	15,149	-253	9 AP	2 hits	Lion
17:18	14,949	-127	10 AP	1 hit	Lion
17:19	14,875	-18	11 AP		Lion
17:20	14,916	101	10 AP	1 hit	Lion
17:21	15,080	225	11 AP		Lion
17:22	15,233	216	10 AP	1 hit	Lion
17:23	15,515	344	9 AP		Lion
17:24	15,919	463	10 AP		Lion
17:25	16,447	584	9 AP	3 hits	Lion
17:26	17,084	687	8 AP		Lion
17:27	17,616	585	6 AP		Lion
17:28	18,267	701	6 AP		Lion
17:29	19,014	791	5 AP	1 hit	Lion
17:34	19,261	-565	6 AP		Lion
17:35	18,663	-598	6 AP	1 hit	Lion
17:36	18,031	-632	6 AP		Lion
17:37	17,675	-356	6 AP		Lion
17:38	17,302	-378	7 AP		Lion
17:39	16,913	-389	7 AP		Lion
17:40	16,525	-389	7 AP		Lion
17:41	16,115	-410	8 AP		Lion
17:42	15,746	-369	7 AP		Lion
17:43	15,387	-359	8 AP		Lion
17:44	15,017	-370	8 AP	1 hit	Lion
17:45	14,658	-359	8 AP	1 hit	Lion
17:46	14,299	-359	9 AP	1 hit	Lion
17:47	14,587	290	8 AP	1 hit	Lion
17:48	14,893	297	10 AP	1 hit	Lion
17:49	15,202	309	10 AP		Lion
17:50	15,515	314	10 AP		Lion
17:51	15,829	315	9 AP	1 hit	Lion
17:52	16,145	316	8 AP		Lion
17:53	16,466	322	10 AP		Lion
17:54	16,788	323	8 AP		Lion

17:55	17,112	324	9 AP		Lion
17:56	17,437	326	8 AP		Lion
17:57	16,741	-695	6 AP		Lion
17:58	16,054	-604	9 AP		Lion
17:59	15,436	-617	8 AP		Lion
18:00	14,819	-617	9 AP		Lion
18:01	14,181	-638	9 AP		Lion
18:02	13,979	-200	10 AP		Lion
18:03	13,781	-193	12 AP	1 hit	Lion
18:04	13,588	-192	11 AP		Lion
18:05	13,397	-189	12 AP	1 hit	Lion
18:06	13,209	-186	12 AP		Lion
18:07	13,025	-182	12 AP	2 hits	Lion
18:08	12,845	-178	13 AP	1 hit	Lion
18:09	12,671	-171	12 AP	1 hit	Lion
18:10	12,784	114	12 AP	1 hit	Lion
18:11	12,900	117	12 AP	1 hit	Lion
18:12	13,032	135	10 AP	1 hit	Lion
18:13	13,198	169	9 AP		Lion
18:14	13,699	501	7 AP		Lion
18:15	14,201	445	6 AP		Lion
		Total	544 shells	29 hits	

Gunnery log for Moltke

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
17:07	19,758	-1,017	1 AP		Lion
17:09	17,830	-994	2 AP		Tiger
17:10	16,569	-999	2 AP		Lion
17:11	15,742	-1,011	3 AP		Tiger
17:12	14,746	-979	2 AP		Tiger
17:13	14,926	-27	8 AP		Tiger
17:14	14,914	29	10 AP	1 hit	Tiger
17:15	15,010	137	10 AP		Tiger
17:16	15,220	250	10 AP		Tiger
17:17	15,534	363	7 AP	1 hit	Tiger
17:18	15,083	-222	8 AP	2 hits	Tiger
17:19	14,923	-101	10 AP	1 hit	Tiger
17:20	14,874	12	10 AP	2 hits	Tiger
17:21	14,948	133	9 AP	1 hit	Tiger
17:22	15,145	257	10 AP		Tiger
17:23	15,297	254	9 AP	1 hit	Tiger
17:24	15,617	381	9 AP		Tiger
17:25	16,065	500	9 AP		Tiger
17:26	16,629	619	8 AP		Tiger
17:27	17,298	717	8 AP		Tiger
17:28	17,828	619	5 AP	1 hit	Tiger
17:29	18,512	732	5 AP		Tiger
17:30	19,288	819	5 AP		Tiger
17:34	19,763	-531	5 AP	1 hit	Tiger
17:35	19,164	-565	5 AP		Tiger
17:36	18,533	-598	5 AP		Tiger
17:37	17,880	-632	6 AP		Tiger
17:38	17,546	-357	6 AP		Tiger
17:39	17,149	-367	6 AP	1 hit	Tiger
17:40	16,760	-389	7 AP		Tiger
17:41	16,350	-389	6 AP	1 hit	Tiger
17:42	15,940	-410	6 AP	1 hit	Tiger
17:43	15,580	-358	7 AP	1 hit	Tiger
17:44	15,202	-348	7 AP	1 hit	Tiger
17:45	14,835	-359	7 AP		Tiger
17:46	14,477	-358	7 AP		Tiger
17:47	14,127	-349	7 AP		Tiger
17:48	14,678	304	8 AP	1 hit	Tiger
17:49	14,987	309	9 AP		Tiger
17:50	15,300	310	8 AP	1 hit	Tiger
17:51	15,614	315	6 AP	1 hit	Tiger
17:52	15,689	314	7 AP		Tiger
17:53	16,008	316	7 AP	1 hit	Tiger
17:54	16,329	322	6 AP		Tiger

17:55	16,651	323	7 AP		Tiger
17:56	16,975	324	5 AP	1 hit	Tiger
17:57	17,168	-4	2 AP		Tiger
17:58	16,191	-687	4 AP		Tiger
17:59	15,574	-597	6 AP		Tiger
18:00	14,957	-617	5 AP	1 hit	Tiger
18:01	14,319	-617	6 AP		Tiger
18:02	13,681	-638	6 AP		Tiger
18:03	13,646	-197	7 AP		Tiger
18:04	13,453	-191	9 AP	1 hit	Tiger
18:05	13,262	-190	8 AP	1 hit	Tiger
18:06	13,073	-186	9 AP		Tiger
18:07	12,900	-171	8 AP	1 hit	Tiger
18:08	12,743	-153	8 AP		Tiger
18:09	12,608	-132	8 AP	1 hit	Tiger
18:10	12,608	173	6 AP		Tiger
18:11	12,799	196	5 AP		Tiger
18:12	12,791	27	5 AP		Tiger
18:13	12,844	210	4 AP	1 hit	Tiger
18:14	13,188	517	4 AP		Tiger
18:15	13,738	500	5 AP		Tiger
		Total	425 shells	27 hits	

Gunnery log for Derfflinger

Local Time	Range Yards	Range Rate	Shells Fired	Result	Target
17:09	18,556	-1,008	3 AP		Princess Royal
17:10	17,266	-1,005	4 AP		Tiger
17:11	16,240	-1,013	4 AP		Tiger
17:12	15,382	-1,037	5 AP		Princess Royal
17:13	14,994	-122	7 AP		Princess Royal
17:14	14,901	-43	9 AP	1 hit	Princess Royal
17:15	14,916	66	10 AP		Princess Royal
17:16	15,044	182	8 AP		Princess Royal
17:17	15,293	302	8 AP		Princess Royal
17:18	15,281	-314	6 AP		Princess Royal
17:19	15,037	-190	10 AP	2 hits	Princess Royal
17:20	14,899	-78	8 AP		Princess Royal
17:21	14,881	45	8 AP	1 hit	Princess Royal
17:22	14,992	175	8 AP	3 hits	Princess Royal
17:23	15,142	166	8 AP		Princess Royal
17:24	15,373	299	7 AP	1 hit	Princess Royal
17:25	15,736	427	8 AP	2 hits	Princess Royal
17:26	16,223	554	7 AP	1 hit	Princess Royal
17:27	16,822	663	6 AP	1 hit	Princess Royal
17:28	17,434	563	7 AP	1 hit	Princess Royal
17:29	18,051	684	5 AP		Princess Royal
17:30	18,767	780	5 AP		Princess Royal
17:36	19,034	-648	6 AP		Princess Royal
17:37	18,357	-657	5 AP		Princess Royal
17:38	17,658	-678	6 AP		Princess Royal
17:39	17,384	-368	7 AP		Princess Royal
17:40	16,996	-389	6 AP		Princess Royal
17:41	16,586	-410	1 AP		Princess Royal
17:42	16,176	-410	7 AP		Princess Royal
17:43	15,767	-430	8 AP		Princess Royal
17:44	15,388	-369	7 AP	1 hit	Princess Royal
17:45	15,013	-358	8 AP	1 hit	Princess Royal
17:46	14,655	-378	9 AP		Princess Royal
17:47	14,285	-369	8 AP		Princess Royal
17:48	14,438	251	7 AP		Princess Royal
17:49	14,772	309	8 AP		Princess Royal
17:50	15,084	313	8 AP	1 hit	Princess Royal
17:51	15,398	314	8 AP		Princess Royal
17:52	15,236	316	8 AP		Princess Royal
17:53	15,553	318	8 AP	2 hits	Princess Royal
17:54	15,872	320	8 AP		Princess Royal
17:55	16,193	326	7 AP		Princess Royal
17:56	16,515	328	8 AP		Princess Royal
17:57	16,909	2	7 AP		Princess Royal

17:58	16,329	-687	6 AP	1 hit	Princess Royal
17:59	15,712	-597	9 AP	1 hit	Princess Royal
18:00	15,095	-617	9 AP		Princess Royal
18:01	14,457	-638	9 AP	1 hit	Princess Royal
18:02	13,820	-637	10 AP	1 hit	Princess Royal
18:03	13,512	-199	8 AP		Princess Royal
18:04	13,318	-193	10 AP		Princess Royal
18:05	13,126	-191	10 AP		Princess Royal
18:06	12,937	-187	10 AP		Princess Royal
18:07	12,892	-192	10 AP	1 hit	Princess Royal
18:08	12,703	-188	11 AP		Princess Royal
18:09	12,518	-182	10 AP	1 hit	Princess Royal
18:10	12,282	120	10 AP	1 hit	Princess Royal
18:11	12,391	124	11 AP	1 hit	Princess Royal
18:12	12,516	141	10 AP	2 hits	Princess Royal
18:13	12,672	160	10 AP	1 hit	Princess Royal
18:14	12,784	501	4 AP		Princess Royal
18:15	13,286	446	5 AP		Princess Royal
		Total	468 shells	29 hits	

Gunnery log for Blucher

Local Time	Range Yards	Range Rate	Shells Fired		Result	Target
17:12	16,925	-1,114	1 AP			New Zealand
17:13	15,840	-1,072	2 AP		1 hit	New Zealand
17:14	15,506	-244	12 AP	rapid		New Zealand
17:15	15,498	-999	5 HE			Birmingham
17:16	15,226	-48	9 AP			New Zealand
17:17	15,151	-26	8 AP			New Zealand
17:18	15,174	75	8 AP			New Zealand
17:19	16,442	-1,033	1 HE			Nottingham
17:20	14,870	-235	7 AP			New Zealand
17:21	14,898	-85	9 AP			New Zealand
17:22	12,130	-1,250	1 HE			Nottingham
17:23	14,953	145	8 AP			New Zealand
17:24	15,066	160	8 AP			New Zealand
17:25	15,296	287	8 AP			New Zealand
17:26	15,658	413	3 AP			New Zealand
17:27	16,365	737	8 AP			New Zealand
17:28	16,967	411	6 AP			New Zealand
17:39	16,244	308	1 HE			Lowestoft
17:43	16,496	-262	5 AP			New Zealand
17:44	16,161	-262	1 AP			New Zealand
17:45	15,646	-318	1 AP			Lion
17:46	15,493	-285	6 AP			New Zealand
17:47	15,225	-268	6 AP			New Zealand
17:48	14,787	-241	1 AP			Lion
17:49	15,252	266	1 AP			New Zealand
17:50	15,521	271	8 AP			New Zealand
17:51	15,793	274	8 AP			New Zealand
17:52	16,009	300	7 AP			Lion
17:53	15,201	-332	1 AP			New Zealand
17:54	15,187	-80	1 AP			New Zealand
17:55	15,268	260	1 AP			New Zealand
17:56	15,601	270	8 AP			New Zealand
17:58	16,420	40	1 AP			New Zealand
17:59	16,417	-639	7 AP			Lion
18:00	15,800	-549	7 AP			Lion
18:01	15,161	-571	9 AP		1 hit	Lion
18:02	13,821	-577	9 AP			New Zealand
18:03	13,996	-593	9 AP		1 hit	Lion
18:04	12,995	-186	9 AP			New Zealand
18:05	12,811	-184	10 AP			New Zealand
18:06	12,630	-182	11 AP			New Zealand
18:07	12,454	-179	10 AP			New Zealand
18:08	12,884	-198	1 AP			Lion
18:09	12,680	-196	11 AP		1 hit	Lion

18:10	12,250	60	24 AP rapid	Lion
18:11	12,343	73	2 AP	Lion
18:12	12,449	86	10 AP	Lion
18:14	16,907	379	1 HE	Undaunted
		Total	291 shells	4 hits