Cadence at speed

chainring	cog	Gear (27")	develop (m)	Cadence at Speed (rpm, km/h)												
		27	2.096	20	25	30	35	40	45	50	55	60	65	70	75	80
50	16	84.4	6.55	51	64	76	89	102	115	127	140	153	165	178	191	204
51	16	86.1	6.68	50	62	75	87	100	112	125	137	150	162	175	187	200
52	16	87.8	6.81	49	61	73	86	98	110	122	135	147	159	171	183	196
53	16	89.4	6.94	48	60	72	84	96	108	120	132	144	156	168	180	192
50	15	90.0	6.99	48	60	72	83	95	107	119	131	143	155	167	179	191
54	16	91.1	7.07	47	59	71	82	94	106	118	130	141	153	165	177	188
51	15	91.8	7.13	47	58	70	82	94	105	117	129	140	152	164	175	187
55	16	92.8	7.21	46	58	69	81	93	104	116	127	139	150	162	173	185
52	15	93.6	7.27	46	57	69	80	92	103	115	126	138	149	161	172	183
56	16	94.5	7.34	45	57	68	80	91	102	114	125	136	148	159	170	182
53	15	95.4	7.41	45	56	68	79	90	101	113	124	135	146	158	169	180
57	16	96.2	7.47	45	56	67	78	89	100	112	123	134	145	156	167	179
50	14	96.4	7.49	45	56	67	78	89	100	111	122	134	145	156	167	178
54	15	97.2	7.55	44	55	66	77	88	99	110	121	133	144	155	166	177
58	16	97.9	7.60	44	55	66	77	88	99	110	121	132	143	154	165	175
51	14	98.4	7.64	44	55	65	76	87	98	109	120	131	142	153	164	175
55	15	99.0	7.69	43	54	65	76	87	98	108	119	130	141	152	163	173
59	16	99.6	7.73	43	54	65	75	86	97	108	119	129	140	151	162	173
52	14	100.3	7.79	43	54	64	75	86	96	107	118	128	139	150	161	171
56	15	100.8	7.83	43	53	64	75	85	96	106	117	128	138	149	160	170
60	16	101.3	7.86	42	53	64	74	85	95	106	117	127	138	148	159	170
53	14	102.2	7.93	42	53	63	74	84	95	105	116	126	137	147	158	168
57	15	102.6	7.96	42	52	63	73	84	94	105	115	126	136	146	157	167
50	13	103.8	8.06	41	52	62	72	83	93	103	114	124	134	145	155	165
54	14	104.1	8.08	41	52	62	72	82	93	103	113	124	134	144	155	165
58	15	104.4	8.10	41	51	62	72	82	93	103	113	123	134	144	154	165
51	13	105.9	8.22	41	51	61	71	81	91	101	111	122	132	142	152	162
55	14	106.1	8.23	40	51	61	71	81	91	101	111	121	132	142	152	162
59	15	106.2	8.24	40	51	61	71	81	91	101	111	121	131	142	152	162
52	13	108.0	8.38	40	50	60	70	80	89	99	109	119	129	139	149	159
56	14	108.0	8.38	40	50	60	70	80	89	99	109	119	129	139	149	159
60	15	108.0	8.38	40	50	60	70	80	89	99	109	119	129	139	149	159
57	14	109.9	8.53	39	49	59	68	78	88	98	107	117	127	137	146	156
53	13	110.1	8.55	39	49	59	68	78	88	98	107	117	127	137	146	156
58	14	111.9	8.68	38	48	58	67	77	86	96	106	115	125	134	144	154
54	13	112.2	8.71	38	48	57	67	77	86	96	105	115	124	134	144	153
50	12	112.5	8.73	38	48	57	67	76	86	95	105	115	124	134	143	153
59	14	113.8	8.83	38	47	57	66	75	85	94	104	113	123	132	142	151
55	13	114.2	8.87	38	47	56	66	75	85	94	103	113	122	132	141	150
51	12	114.8	8.91	37	47	56	65	75	84	94	103	112	122	131	140	150
60	14	115.7	8.98	37	46	56	65	74	83	93	102	111	121	130	139	148
56	13	116.3	9.03	37	46	55	65	74	83	92	102	111	120	129	138	148
52	12	117.0	9.08	37	46	55	64	73	83	92	101	110	119	128	138	147
57	13	118.4	9.19	36	45	54	63	73	82	91	100	109	118	127	136	145
53	12	119.3	9.26	36	45	54	63	72	81	90	99	108	117	126	135	144
58	13	120.5	9.35	36	45	53	62	71	80	89	98	107	116	125	134	143
54	12	121.5	9.43	35	44	53	62	71	80	88	97	106	115	124	133	141
59	13	122.5	9.51	35	44	53	61	70	79	88	96	105	114	123	131	140
55	12	123.8	9.61	35	43	52	61	69	78	87	95	104	113	121	130	139
60	13	124.6	9.67	34	43	52	60	69	78	86	95	103	112	121	129	138
56	12	126.0	9.78	34	43	51	60	68	77	85	94	102	111	119	128	136
57	12	128.3	9.96	33	42	50	59	67	75	84	92	100	109	117	126	134
58	12	130.5	10.13	33	41	49	58	66	74	82	90	99	107	115	123	132
59	12	132.8	10.31	32	40	49	57	65	73	81	89	97	105	113	121	129
60	12	135.0	10.48	32	40	48	56	64	72	80	87	95	103	111	119	127
			F200 time	36	28.8	24	20.6	18	16	14.4	13.09	12	11.08	10.29	9.6	9

F200 time	12.0	11.9	11.8	11.7	11.6	11.5	11.4	11.3	11.2	11.1	11.0
	60.0	60.5	61.0	61.5	62.1	62.6	63.2	63.7	64.3	64.9	65.5
	10.9	10.8	10.7	10.6	10.5	10.4	10.3	10.2	10.1	10.0	
	66.1	66.7	67.3	67.9	68.6	69.2	69.9	70.6	71.3	72.0	
	9.9	9.8	9.7	9.6	9.5	9.4	9.3	9.2	9.1	9.0	
	72.7	73.5	74.2	75.0	75.8	76.6	77.4	78.3	79.1	80.0	

Speed at Cadence

chainring	cog	Gear (27")	develop (m)	80	85	90	95	100	105	110	115	120	125	130	135	140	145
		27	2.096	Speed at cadence (km/h)													
50	16	84.4	6.55	31.4	33.4	35.4	37.3	39.3	41.3	43.2	45.2	47.2	49.1	51.1	53.1	55.0	57.0
51	16	86.1	6.68	32.1	34.1	36.1	38.1	40.1	42.1	44.1	46.1	48.1	50.1	52.1	54.1	56.1	58.1
52	16	87.8	6.81	32.7	34.7	36.8	38.8	40.9	42.9	45.0	47.0	49.0	51.1	53.1	55.2	57.2	59.3
53	16	89.4	6.94	33.3	35.4	37.5	39.6	41.7	43.7	45.8	47.9	50.0	52.1	54.2	56.2	58.3	60.4
50	15	90.0	6.99	33.5	35.6	37.7	39.8	41.9	44.0	46.1	48.2	50.3	52.4	54.5	56.6	58.7	60.8
54	16	91.1	7.07	34.0	36.1	38.2	40.3	42.4	44.6	46.7	48.8	50.9	53.1	55.2	57.3	59.4	61.5
51	15	91.8	7.13	34.2	36.3	38.5	40.6	42.8	44.9	47.0	49.2	51.3	53.4	55.6	57.7	59.9	62.0
55	16	92.8	7.21	34.6	36.7	38.9	41.1	43.2	45.4	47.6	49.7	51.9	54.0	56.2	58.4	60.5	62.7
52	15	93.6	7.27	34.9	37.1	39.2	41.4	43.6	45.8	48.0	50.1	52.3	54.5	56.7	58.9	61.0	63.2
56	16	94.5	7.34	35.2	37.4	39.6	41.8	44.0	46.2	48.4	50.6	52.8	55.0	57.2	59.4	61.6	63.8
53	15	95.4	7.41	35.5	37.8	40.0	42.2	44.4	46.7	48.9	51.1	53.3	55.5	57.8	60.0	62.2	64.4
57	16	96.2	7.47	35.8	38.1	40.3	42.6	44.8	47.0	49.3	51.5	53.8	56.0	58.2	60.5	62.7	65.0
50	14	96.4	7.49	35.9	38.2	40.4	42.7	44.9	47.2	49.4	51.7	53.9	56.1	58.4	60.6	62.9	65.1
54	15	97.2	7.55	36.2	38.5	40.7	43.0	45.3	47.5	49.8	52.1	54.3	56.6	58.9	61.1	63.4	65.6
58	16	97.9	7.60	36.5	38.7	41.0	43.3	45.6	47.9	50.1	52.4	54.7	57.0	59.3	61.5	63.8	66.1
51	14	98.4	7.64	36.7	38.9	41.2	43.5	45.8	48.1	50.4	52.7	55.0	57.3	59.6	61.8	64.1	66.4
55	15	99.0	7.69	36.9	39.2	41.5	43.8	46.1	48.4	50.7	53.0	55.3	57.6	59.9	62.3	64.6	66.9
59	16	99.6	7.73	37.1	39.4	41.7	44.1	46.4	48.7	51.0	53.3	55.6	58.0	60.3	62.6	64.9	67.2
52	14	100.3	7.79	37.4	39.7	42.0	44.4	46.7	49.0	51.4	53.7	56.1	58.4	60.7	63.1	65.4	67.7
56	15	100.8	7.83	37.6	39.9	42.3	44.6	47.0	49.3	51.6	54.0	56.3	58.7	61.0	63.4	65.7	68.1
60	16	101.3	7.86	37.7	40.1	42.4	44.8	47.2	49.5	51.9	54.2	56.6	59.0	61.3	63.7	66.0	68.4
53	14	102.2	7.93	38.1	40.5	42.8	45.2	47.6	50.0	52.4	54.8	57.1	59.5	61.9	64.3	66.7	69.0
57	15	102.6	7.96	38.2	40.6	43.0	45.4	47.8	50.2	52.6	55.0	57.3	59.7	62.1	64.5	66.9	69.3
50	13	103.8	8.06	38.7	41.1	43.5	46.0	48.4	50.8	53.2	55.6	58.0	60.5	62.9	65.3	67.7	70.1
54	14	104.1	8.08	38.8	41.2	43.7	46.1	48.5	50.9	53.4	55.8	58.2	60.6	63.1	65.5	67.9	70.3
58	15	104.4	8.10	38.9	41.3	43.8	46.2	48.6	51.1	53.5	55.9	58.4	60.8	63.2	65.6	68.1	70.5
51	13	105.9	8.22	39.5	41.9	44.4	46.9	49.3	51.8	54.3	56.7	59.2	61.7	64.1	66.6	69.1	71.5
55	14	106.1	8.23	39.5	42.0	44.5	46.9	49.4	51.9	54.3	56.8	59.3	61.8	64.2	66.7	69.2	71.6
59	15	106.2	8.24	39.6	42.0	44.5	47.0	49.5	51.9	54.4	56.9	59.4	61.8	64.3	66.8	69.3	71.7
52	13	108.0	8.38	40.2	42.8	45.3	47.8	50.3	52.8	55.3	57.8	60.4	62.9	65.4	67.9	70.4	72.9
56	14	108.0	8.38	40.2	42.8	45.3	47.8	50.3	52.8	55.3	57.8	60.4	62.9	65.4	67.9	70.4	72.9
60	15	108.0	8.38	40.2	42.8	45.3	47.8	50.3	52.8	55.3	57.8	60.4	62.9	65.4	67.9	70.4	72.9
57	14	109.9	8.53	41.0	43.5	46.1	48.6	51.2	53.8	56.3	58.9	61.4	64.0	66.6	69.1	71.7	74.2
53	13	110.1	8.55	41.0	43.6	46.1	48.7	51.3	53.8	56.4	59.0	61.5	64.1	66.7	69.2	71.8	74.3
58	14	111.9	8.68	41.7	44.3	46.9	49.5	52.1	54.7	57.3	59.9	62.5	65.1	67.7	70.3	72.9	75.5
54	13	112.2	8.71	41.8	44.4	47.0	49.6	52.2	54.9	57.5	60.1	62.7	65.3	67.9	70.5	73.1	75.7
50	12	112.5	8.73	41.9	44.5	47.2	49.8	52.4	55.0	57.6	60.3	62.9	65.5	68.1	70.7	73.4	76.0
59	14	113.8	8.83	42.4	45.0	47.7	50.3	53.0	55.6	58.3	60.9	63.6	66.2	68.9	71.5	74.2	76.8
55	13	114.2	8.87	42.6	45.2	47.9	50.5	53.2	55.9	58.5	61.2	63.8	66.5	69.2	71.8	74.5	77.1
51	12	114.8	8.91	42.8	45.4	48.1	50.8	53.4	56.1	58.8	61.5	64.1	66.8	69.5	72.2	74.8	77.5
60	14	115.7	8.98	43.1	45.8	48.5	51.2	53.9	56.6	59.3	62.0	64.7	67.4	70.1	72.8	75.5	78.2
56	13	116.3	9.03	43.3	46.0	48.8	51.5	54.2	56.9	59.6	62.3	65.0	67.7	70.4	73.1	75.8	78.6
52	12	117.0	9.08	43.6	46.3	49.0	51.8	54.5	57.2	59.9	62.7	65.4	68.1	70.8	73.6	76.3	79.0
57	13	118.4	9.19	44.1	46.9	49.6	52.4	55.1	57.9	60.7	63.4	66.2	68.9	71.7	74.4	77.2	80.0
53	12	119.3	9.26	44.4	47.2	50.0	52.8	55.5	58.3	61.1	63.9	66.7	69.4	72.2	75.0	77.8	80.5
58	13	120.5	9.35	44.9	47.7	50.5	53.3	56.1	58.9	61.7	64.5	67.3	70.1	72.9	75.7	78.6	81.4
54	12	121.5	9.43	45.3	48.1	50.9	53.8	56.6	59.4	62.3	65.1	67.9	70.7	73.6	76.4	79.2	82.1
59	13	122.5	9.51	45.7	48.5	51.4	54.2	57.1	59.9	62.8	65.6	68.5	71.3	74.2	77.1	79.9	82.8
55	12	123.8	9.61	46.1	49.0	51.9	54.8	57.6	60.5	63.4	66.3	69.2	72.1	74.9	77.8	80.7	83.6
60	13	124.6	9.67	46.4	49.3	52.2	55.1	58.0	60.9	63.8	66.7	69.7	72.6	75.5	78.4	81.3	84.2
56	12	126.0	9.78	47.0	49.9	52.8	55.8	58.7	61.6	64.6	67.5	70.4	73.4	76.3	79.2	82.2	85.1
57	12	128.3	9.96	47.8	50.8	53.8	56.7	59.7	62.7	65.7	68.7	71.7	74.7	77.7	80.6	83.6	86.6
58	12	130.5	10.13	48.6	51.7	54.7	57.7	60.8	63.8	66.9	69.9	72.9	76.0	79.0	82.1	85.1	88.1
59	12	132.8	10.31	49.5	52.6	55.6	58.7	61.8	64.9	68.0	71.1	74.2	77.3	80.4	83.5	86.6	89.7
60	12	135.0	10.48	50.3	53.4	56.6	59.7	62.9	66.0	69.2	72.3	75.5	78.6	81.7	84.9	88.0	91.2