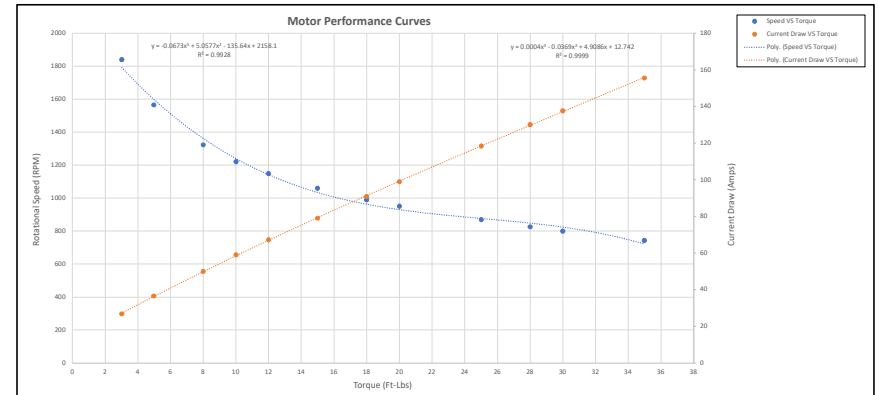
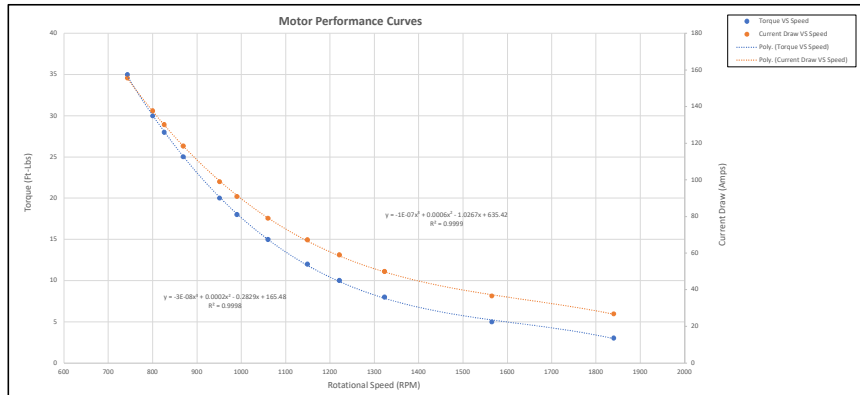
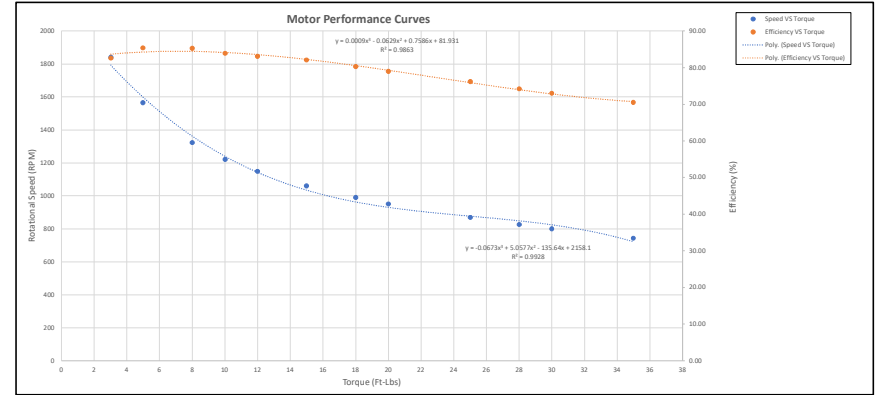
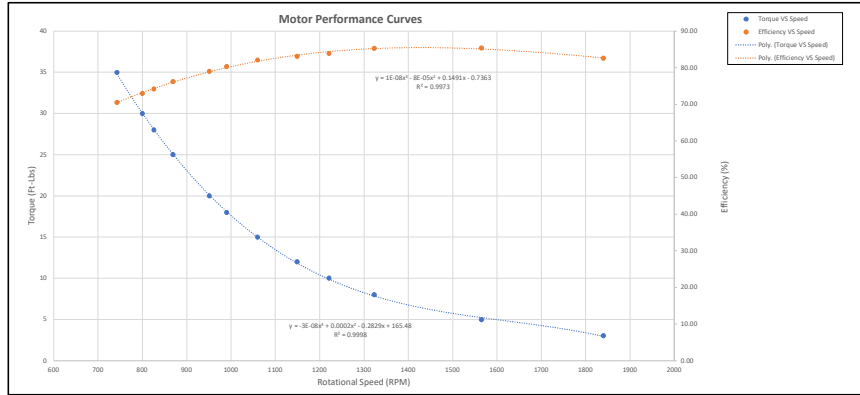


Engineering Performance Test Report

Performance Spec (PS) Number: 13

System Voltage (V): 36 - (1 * 0.015)

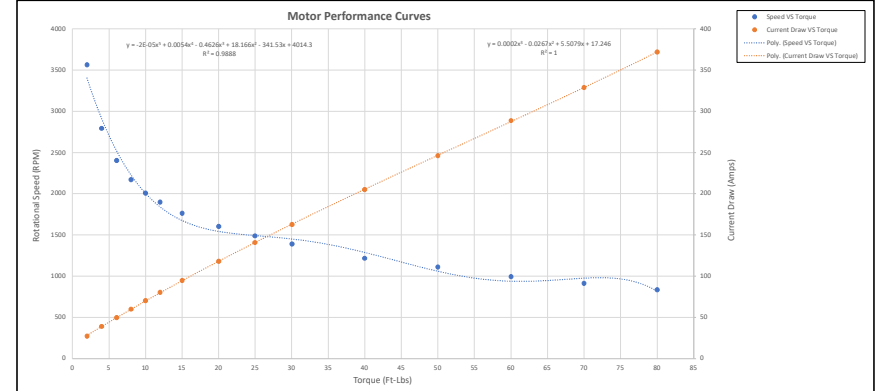
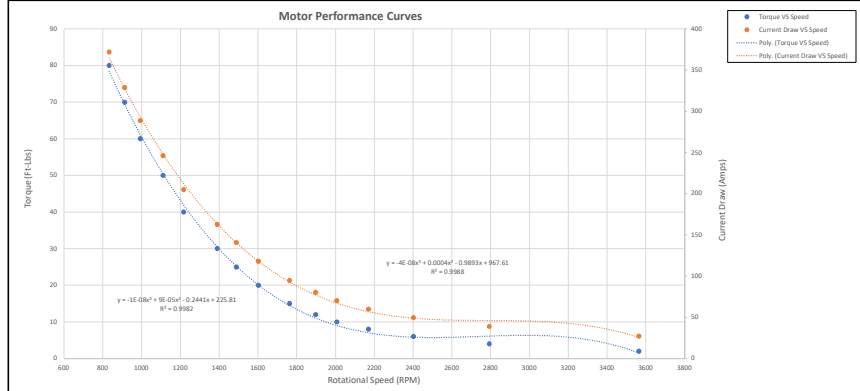
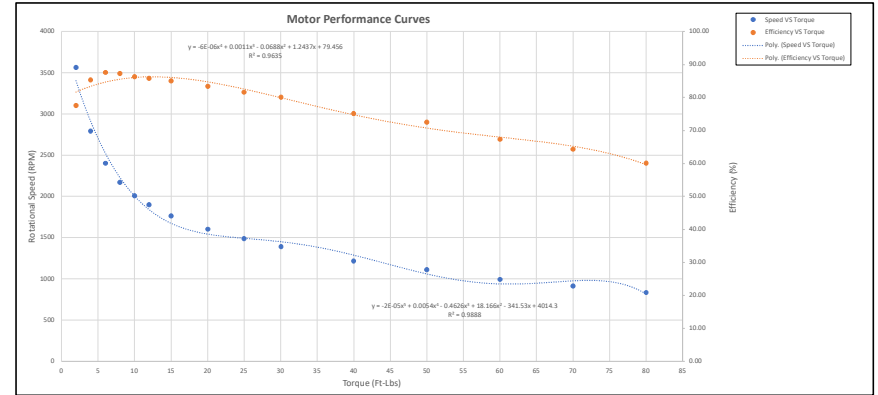
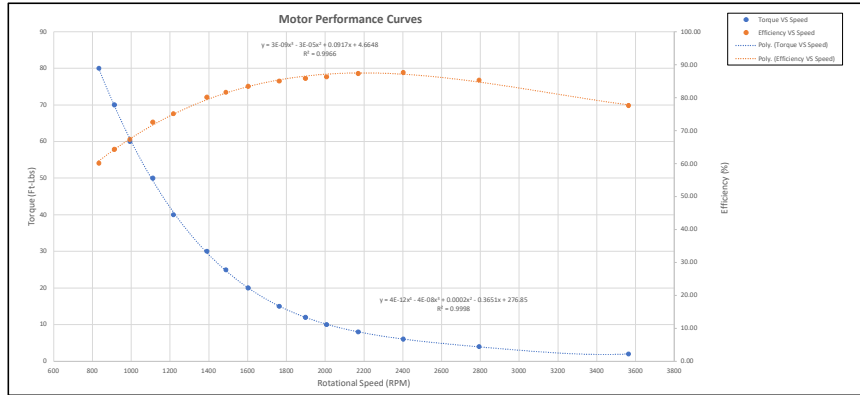
Torque (Ft-Lbs)	Speed (RPM)	Analog Voltage (Volts)	Analog Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3.02	1840	35.6	26.8	0	0	26.8	1.28	1.06	82.60
4.98	1595	35.4	26.6	0	0	26.6	1.24	1.48	85.40
8	1323	35.2	50	0	0	50	2.36	2.02	85.30
10.01	1221	35.1	59	0	0	59	2.77	2.33	83.90
11.99	1149	35	67.2	0	0	67.2	3.15	2.62	83.10
14.99	1060	34.8	79	0	0	79	3.69	3.03	82.10
18	990	34.7	90.9	0	0	90.9	4.22	3.39	80.30
20	951	34.5	99	0	0	99	4.58	3.62	79.00
25.01	809	34.2	118.5	0	0	118.5	5.43	4.14	76.20
30	826	34	130.1	0	0	130.1	5.93	4.4	74.20
29.99	800	33.9	137.6	0	0	137.6	6.25	4.57	73.00
34.98	743	33.6	155.6	0	0	155.6	7.02	4.95	70.50



Engineering Performance Test Report

Performance Spec (SP) Number: 13
 System Voltage (V): 48 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
1.99	3564	47.7	27.2	0	0	27.2	1.74	1.35	77.60
3.99	2793	47.5	29	0	0	29	2.45	2.12	85.30
6.04	2402	47.4	49.6	0	0	49.6	3.15	2.76	87.60
8.01	2170	47.2	59.9	0	0	59.9	3.79	3.31	87.30
10	2007	47.1	70.2	0	0	70.2	4.43	3.82	86.30
11.99	1898	46.9	80.3	0	0	80.3	5.05	4.23	83.80
15.01	1763	46.6	94.8	0	0	94.8	5.93	5.04	85.00
20.02	1602	46.3	118	0	0	118	7.32	6.11	83.40
24.97	1488	45.9	140.8	0	0	140.8	8.67	7.68	81.60
30.04	1390	45.6	162.5	0	0	162.5	9.93	7.95	80.10
39.98	1217	44.9	205	0	0	205	12.33	9.26	75.10
49.99	1111	44.2	246.1	0	0	246.1	14.59	10.58	72.50
60.01	993	43.6	288.7	0	0	288.7	16.86	11.34	67.30
70	913	43	328.8	0	0	328.8	18.94	12.17	64.30
80	833	42.4	371.8	0	0	371.8	21.12	12.69	60.10

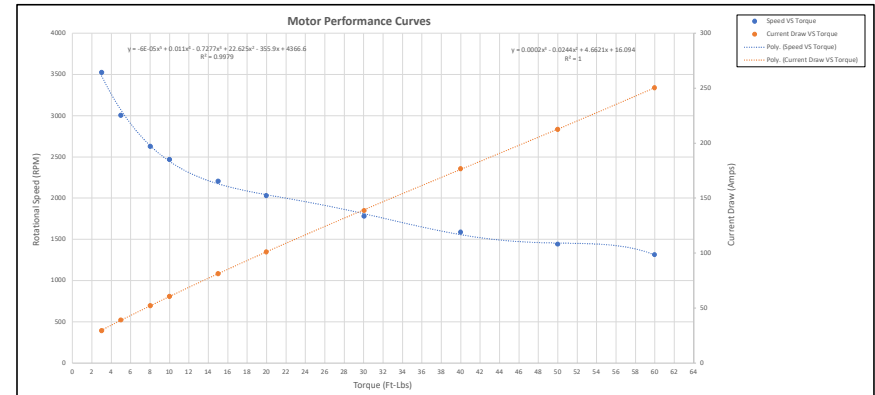
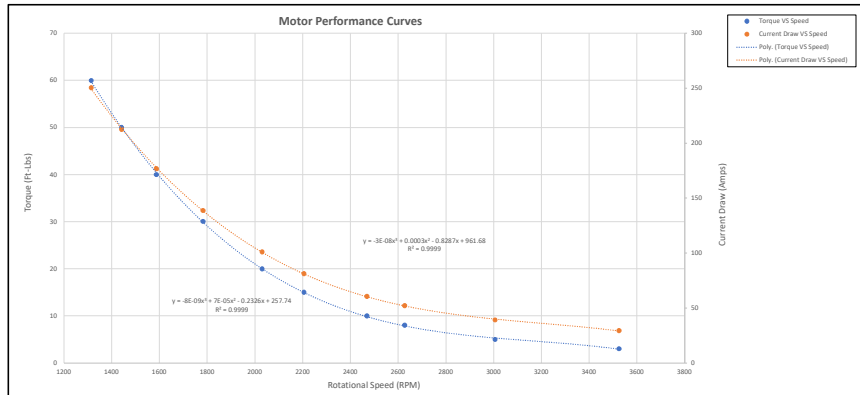
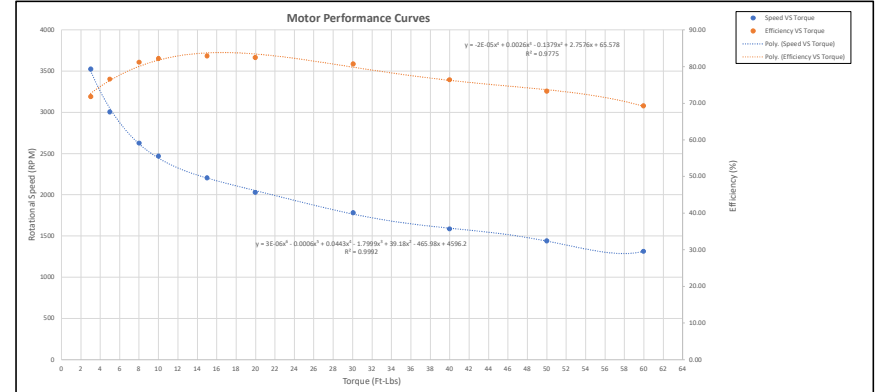
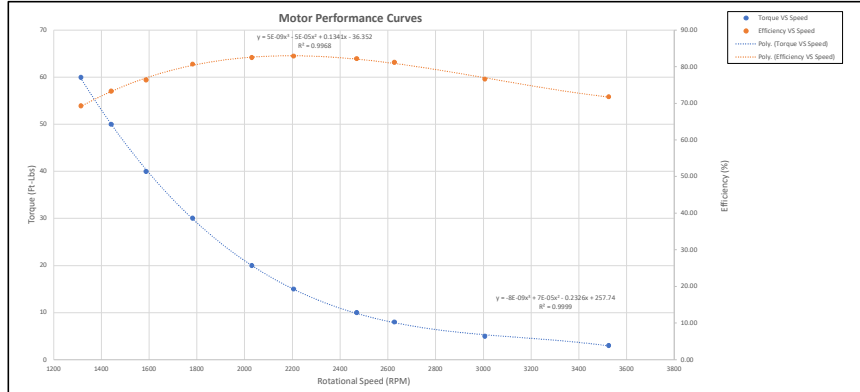


Engineering Performance Test Report

Performance Spec (SP) Number: 13

System Voltage (V): 72 - (1 * 0.030)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3.01	3525	71.3	29.4	0	0	29.4	2.81	2.02	71.80
4.98	3006	71	29.8	0	0	29.8	3.72	2.85	76.00
8.01	2627	70.7	52.1	0	0	52.1	4.93	4.01	81.20
9.99	2469	70.4	60.6	0	0	60.6	5.72	4.7	82.20
15	2205	69.8	81.3	0	0	81.3	8.13	6.3	82.50
19.97	2030	69.2	101	0	0	101	9.36	7.72	83.50
30.05	1782	68	138.7	0	0	138.7	12.64	10.2	80.70
39.98	1587	66.8	176.8	0	0	176.8	15.82	12.08	76.40
49.99	1441	65.7	212.6	0	0	212.6	18.71	13.72	73.30
59.96	1314	64.5	250.4	0	0	250.4	21.95	15	69.30

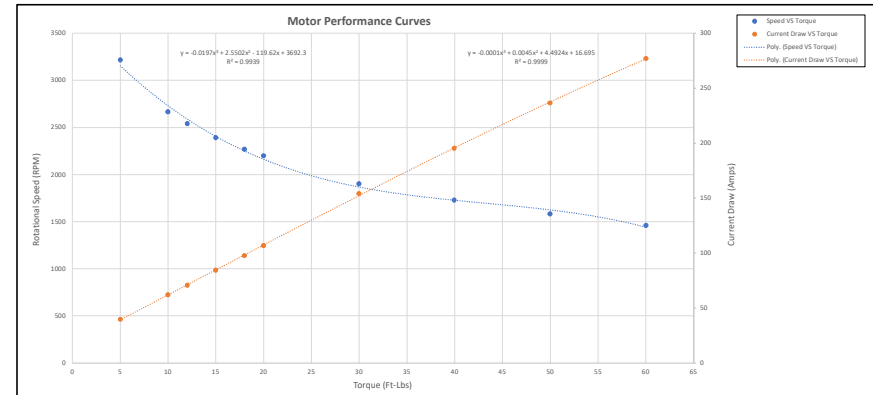
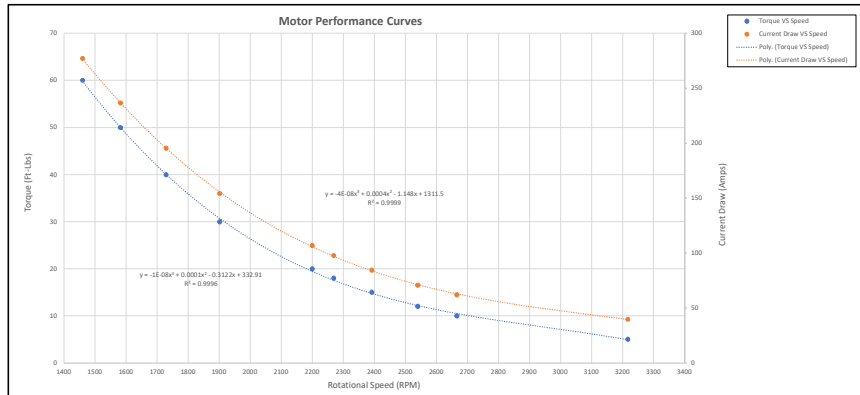
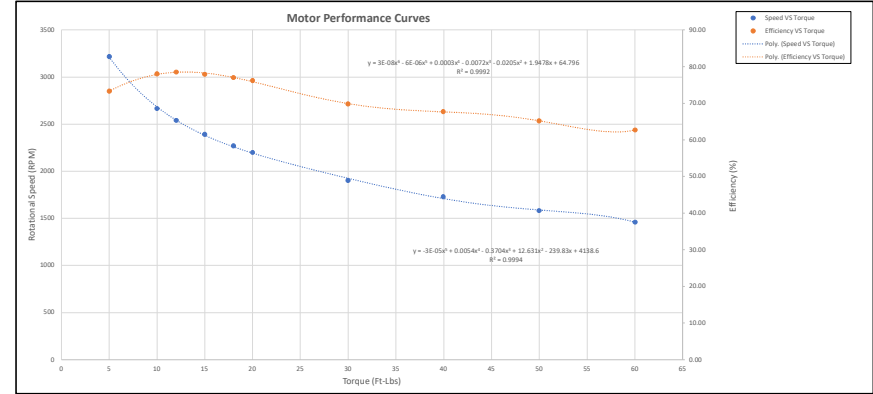
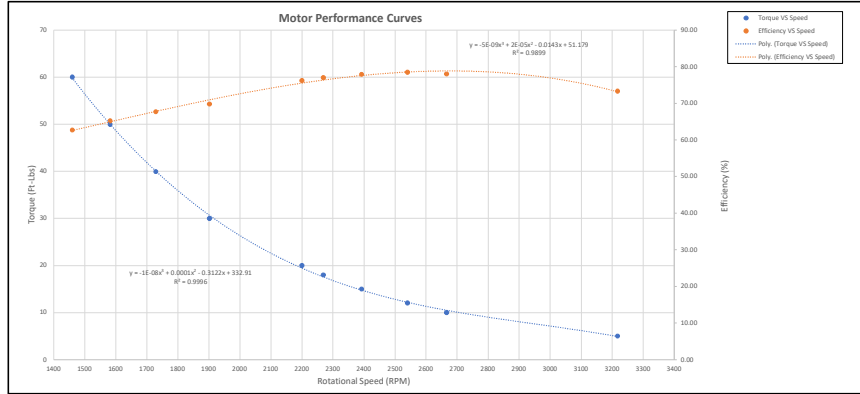


Engineering Performance Test Report

Performance Spec (PS) Number: 13

System Voltage (V): 80 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
5.01	3217	78.8	39.7	0	0	39.7	4.19	3.07	73.30
9.99	2656	78.7	62.1	0	0	62.1	6.5	5.07	78.00
12.01	2540	77.9	70.8	0	0	70.8	7.4	5.81	78.50
14.99	2392	77.5	84.3	0	0	84.3	8.76	6.83	77.90
17.99	2269	77.1	97.7	0	0	97.7	10.09	7.77	77.00
19.99	2100	76.8	106.8	0	0	106.8	10.99	8.27	76.20
29.98	1902	75.4	154.1	0	0	154.1	15.57	10.86	69.80
39.94	1729	74.1	195.4	0	0	195.4	19.41	13.15	67.70
49.97	1582	72.8	236.6	0	0	236.6	23.09	15.05	65.20
60.02	1460	71.7	277.1	0	0	277.1	26.62	16.68	62.70



Engineering Performance Test Report

Performance Spec (PS) Number: 13

System Voltage (V): 96 - (1 * 0.015)

Torque (Ft-Lbs)	Speed (RPM)	Applied Voltage (Volts)	Armature Current (Amps)	Field Voltage (Volts)	Field Current (Amps)	Total Current (Amps)	Power In (Horsepower)	Power Out (Horsepower)	Efficiency (%)
3	4746	94.9	28.7	0	0	28.7	3.66	2.71	74.00
4.99	4096	95.4	28.8	0	0	28.8	4.96	3.89	78.60
8.01	3603	95	52.1	0	0	52.1	6.63	5.5	82.90
9.99	3384	94.8	60.6	0	0	60.6	7.7	6.44	83.60
11.97	3220	94.6	68.8	0	0	68.8	8.72	7.34	84.20
15.02	3071	94.2	81.1	0	0	81.1	10.21	8.67	84.70
20.01	2806	93.5	100.6	0	0	100.6	12.61	10.69	84.80
30.01	2510	92.4	138.1	0	0	138.1	17.1	14.34	83.90
40.01	2235	91.2	179.4	0	0	179.4	21.93	17.02	79.80
50.01	2108	90.3	208.1	0	0	208.1	25.17	20.08	77.60
60.05	1943	89.2	242.5	0	0	242.5	28.99	22.21	76.60
65.09	1842	88.4	262.9	0	0	262.9	31.15	22.83	73.30
69.97	1769	87.9	279.5	0	0	279.5	32.94	23.57	71.50
74.99	1686	87.4	297	0	0	297	34.79	24.08	69.20

