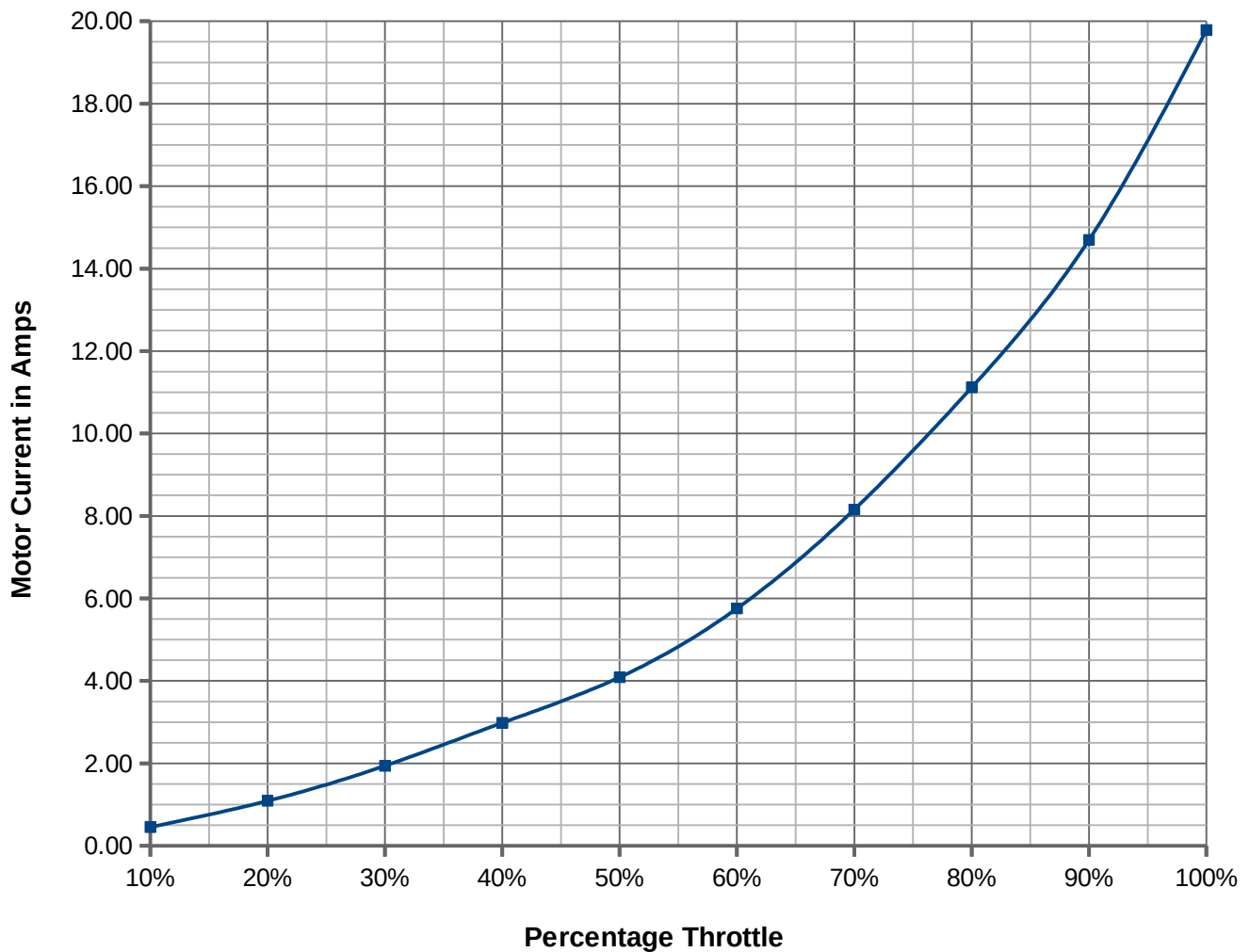


Cobra CM-2204-22 Motor Test Data, Kv=2850

| Data Collected at 11.1 volts with HQ 5x4.5 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.45 | 5.04 | 5,109 | 30.0 | 1.06 | 5.95 |
| 20% | 1.09 | 12.11 | 8,028 | 75.1 | 2.65 | 6.20 |
| 30% | 1.94 | 21.56 | 10,330 | 123.9 | 4.37 | 5.75 |
| 40% | 2.98 | 33.12 | 12,256 | 176.3 | 6.21 | 5.32 |
| 50% | 4.09 | 45.39 | 13,884 | 226.4 | 7.98 | 4.99 |
| 60% | 5.76 | 63.91 | 15,717 | 296.5 | 10.45 | 4.64 |
| 70% | 8.16 | 90.54 | 17,938 | 387.6 | 13.66 | 4.28 |
| 80% | 11.12 | 123.42 | 20,062 | 484.7 | 17.08 | 3.93 |
| 90% | 14.70 | 163.15 | 22,035 | 587.9 | 20.72 | 3.60 |
| 100% | 19.79 | 219.61 | 24,341 | 716.5 | 25.25 | 3.26 |

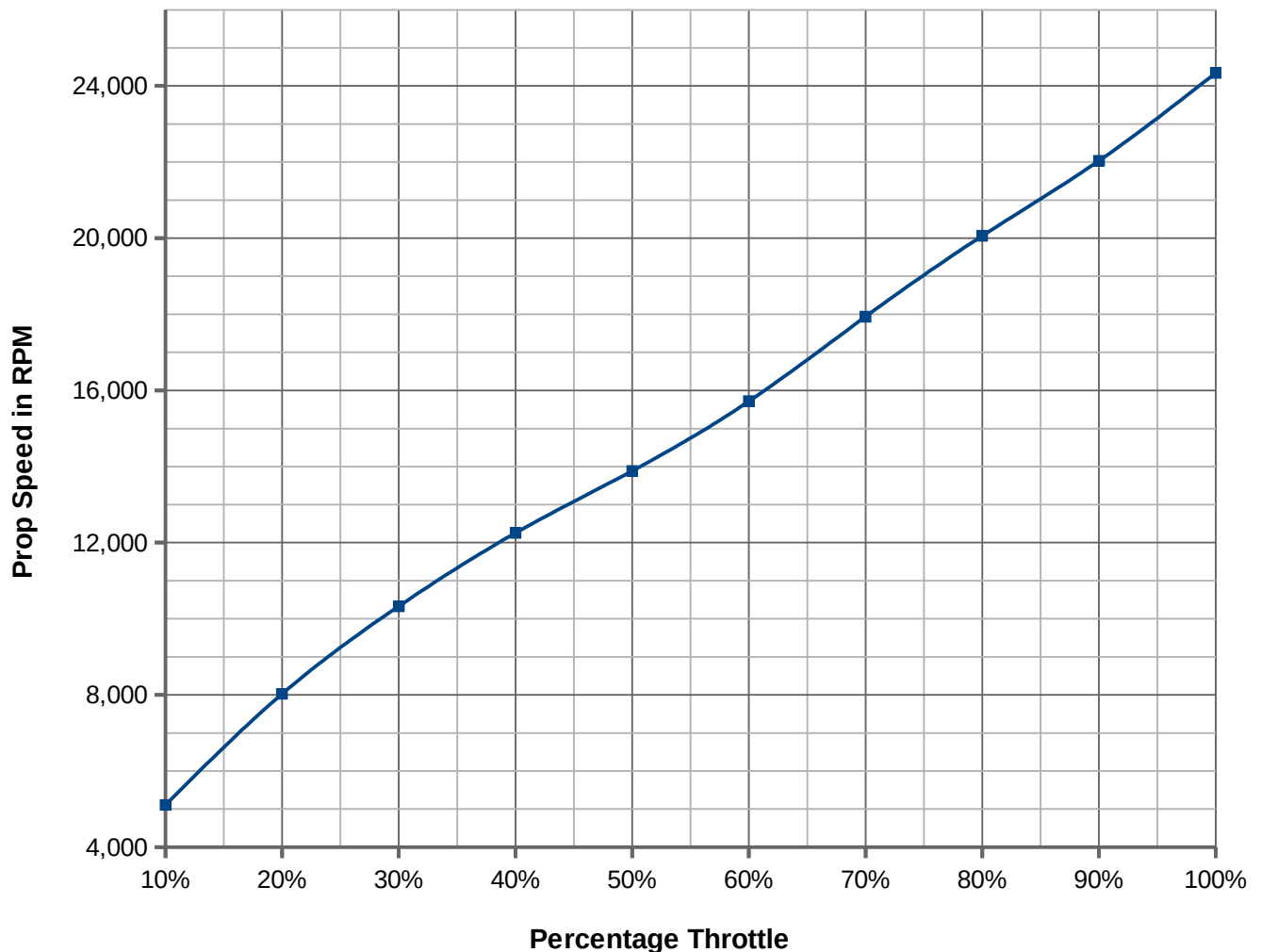
Motor Current vs Throttle Position



Cobra CM-2204-22 Motor Test Data, Kv=2850

| Data Collected at 11.1 volts with HQ 5x4.5 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.45 | 5.04 | 5,109 | 30.0 | 1.06 | 5.95 |
| 20% | 1.09 | 12.11 | 8,028 | 75.1 | 2.65 | 6.20 |
| 30% | 1.94 | 21.56 | 10,330 | 123.9 | 4.37 | 5.75 |
| 40% | 2.98 | 33.12 | 12,256 | 176.3 | 6.21 | 5.32 |
| 50% | 4.09 | 45.39 | 13,884 | 226.4 | 7.98 | 4.99 |
| 60% | 5.76 | 63.91 | 15,717 | 296.5 | 10.45 | 4.64 |
| 70% | 8.16 | 90.54 | 17,938 | 387.6 | 13.66 | 4.28 |
| 80% | 11.12 | 123.42 | 20,062 | 484.7 | 17.08 | 3.93 |
| 90% | 14.70 | 163.15 | 22,035 | 587.9 | 20.72 | 3.60 |
| 100% | 19.79 | 219.61 | 24,341 | 716.5 | 25.25 | 3.26 |

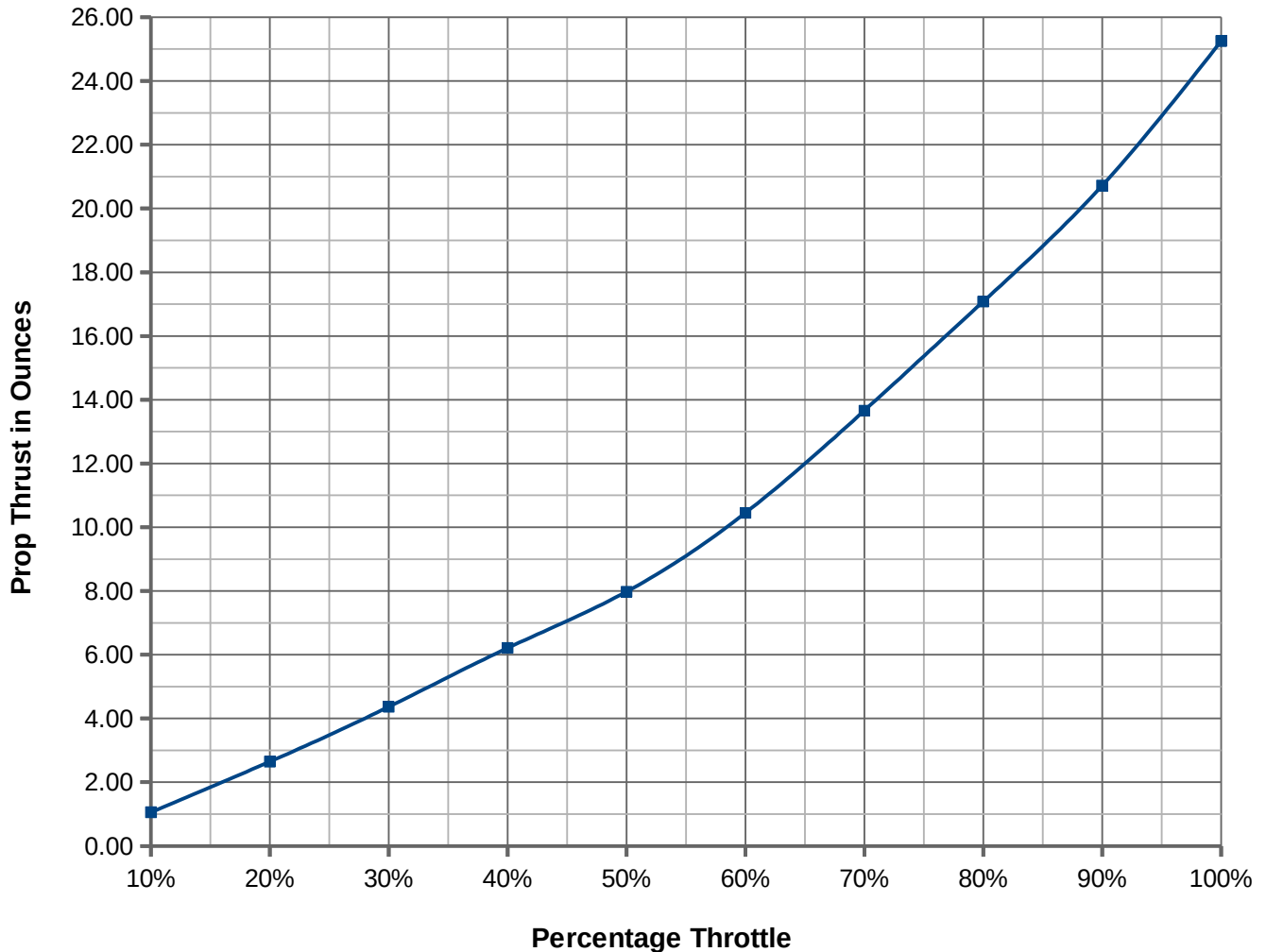
Propeller RPM vs Throttle Position



Cobra CM-2204-22 Motor Test Data, Kv=2850

| Data Collected at 11.1 volts with HQ 5x4.5 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.45 | 5.04 | 5,109 | 30.0 | 1.06 | 5.95 |
| 20% | 1.09 | 12.11 | 8,028 | 75.1 | 2.65 | 6.20 |
| 30% | 1.94 | 21.56 | 10,330 | 123.9 | 4.37 | 5.75 |
| 40% | 2.98 | 33.12 | 12,256 | 176.3 | 6.21 | 5.32 |
| 50% | 4.09 | 45.39 | 13,884 | 226.4 | 7.98 | 4.99 |
| 60% | 5.76 | 63.91 | 15,717 | 296.5 | 10.45 | 4.64 |
| 70% | 8.16 | 90.54 | 17,938 | 387.6 | 13.66 | 4.28 |
| 80% | 11.12 | 123.42 | 20,062 | 484.7 | 17.08 | 3.93 |
| 90% | 14.70 | 163.15 | 22,035 | 587.9 | 20.72 | 3.60 |
| 100% | 19.79 | 219.61 | 24,341 | 716.5 | 25.25 | 3.26 |

Propeller Thrust vs Throttle Position



Cobra CM-2204-22 Motor Test Data, Kv=2850

| Data Collected at 11.1 volts with HQ 5x4.5 Prop | | | | | | |
|---|------------|-------------|----------|----------------|-----------------|--------------------|
| Throttle Setting | Motor Amps | Input Watts | Prop RPM | Thrust (Grams) | Thrust (Ounces) | Efficiency Grams/W |
| 10% | 0.45 | 5.04 | 5,109 | 30.0 | 1.06 | 5.95 |
| 20% | 1.09 | 12.11 | 8,028 | 75.1 | 2.65 | 6.20 |
| 30% | 1.94 | 21.56 | 10,330 | 123.9 | 4.37 | 5.75 |
| 40% | 2.98 | 33.12 | 12,256 | 176.3 | 6.21 | 5.32 |
| 50% | 4.09 | 45.39 | 13,884 | 226.4 | 7.98 | 4.99 |
| 60% | 5.76 | 63.91 | 15,717 | 296.5 | 10.45 | 4.64 |
| 70% | 8.16 | 90.54 | 17,938 | 387.6 | 13.66 | 4.28 |
| 80% | 11.12 | 123.42 | 20,062 | 484.7 | 17.08 | 3.93 |
| 90% | 14.70 | 163.15 | 22,035 | 587.9 | 20.72 | 3.60 |
| 100% | 19.79 | 219.61 | 24,341 | 716.5 | 25.25 | 3.26 |

Propeller Efficiency vs Throttle Position

