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**160 Cleveland Cloudster 600 - Project Summary**

1 message

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Sat, Apr 24, 2021 at 4:15 AM

Report No. 160

*Cleveland Cloudster 600**April 23, 2021***SAM Electric Limited Motor Run (LMR)****PROJECT**

Duration: 10 Months to Completion on 4/21/2021

Plans: 1938 Cleveland Cloudster Plan No. GP 5004C

Graphics: Callie Graphics

Covering: Fuselage - Red Silk over Polyspan

Wing &amp; Stab - UltraCote Transparent Red and White

Finish: Randolph's Nitrate Dope

Wood Frame:...3 Coats (50D/50T)

Polyspan:.....2 Coats 50D/50T

2 Coat 40D/60T

Red Silk:.... 1 Coat 50D/50T

1 Coat 50D/50T with Red Tint

3 Coats 33D/67T

1 Coat 50D/50T with 15% Retarder

1 Coat 1E:1C:1R Satin Clear Klass Kote

1 Coat 1E:1C:1.5R Satin Clear Klass Kote

## SPECIFICATIONS

Wing Span: .....67.9 in.

Wing Chord: .....9.80 in.

Weight: ..... 40.67 oz (1153 gm)

Wing Area: .....600 sq. in.

Wing Loading: .....9.76 oz/sq. ft.

CG: ..... 48.47 %

Fuselage Length: .....43 in. (Spinner Tip to End of Rudder)

Wing Incidence:.....+1.5° (Positive)

Vertical Thrust Offset:.....-5° (Down)

Side Thrust Offset:.....+2.2° (Right)

## EQUIPMENT

Brushless Motor: AXI 15 2814/10 OUTRUNNER Brushless Motor V2

ESC: Jeti Advance 70 Pro Opto

Battery (Motor): Turnigy Graphene 1000 mAh 2S 65C LiPo

Battery (Radio): 5-Cell 800 mAh eneloop NiMH

Spinner: Great Planes 2-1/4" White

Flight Prop: 11 X 7e APC

Main Wheels: 2-1/4 in. Foam

Tail Wheel: 1.0 in.

Receiver: Futaba 7 Channel FASST 2.4GHz R617FS

Servos: Hitec HS-85BB

## PREDICTED PERFORMANCE

*(Jay Burkart's ElectriCalc Program Results on 7/5/2020)*

11 X 7e APC Prop

LiPo TG 1000 mAh 2S 65C

Throttle 100%

Thrust: 46.2 oz

Thrust/Weight 1.16

Run Time: 1.3 min

