

EOSS-310 Heavy

As-flown

Flight Version	EOSS-310 Heavy Rev D (as flown)					
Balloon	Kaymont 3000		Mass	3.000 kg	6.61 lb	
Parachute	12A 12' Rocketman KCOD-3 Lite			0.520 kg	1.15 lb	Parachute Capacity Remaining 25.935 kg 57.18 lb
DF/Cutter	APRS/DF/Release			0.420 kg	0.93 lb	Parachute Total 0.520 kg 1.15 lb
EOSS Payload 1	Wireless Charlie			0.240 kg	0.53 lb	
EOSS Payload 2	CU ADS-B			0.510 kg	1.12 lb	
EOSS Payload 3	AEØSS-12 APRS/Digi lite			0.930 kg	2.05 lb	
EOSS Payload 4	None			0.000 kg	0.00 lb	
EOSS Payload 5	None			0.000 kg	0.00 lb	
EOSS Payload 6	None			0.000 kg	0.00 lb	EOSS Total 2.100 kg 4.63 lb
Student Payload 1	Inners	880 g turn-in		0.880 kg	1.94 lb	850 30 0.07
Student Payload 2	Rocket League	570 g turn-in		0.570 kg	1.26 lb	632 -62 -0.14
Student Payload 3	Barbie Boys	780 g turn-in		0.780 kg	1.72 lb	800 -20 -0.04
Student Payload 4	Spudnick	835 g turn-in		0.835 kg	1.84 lb	840 -5 -0.01
Student Payload 5	Pop Rocks	670 g turn-in		0.670 kg	1.48 lb	750 -80 -0.18
Student Payload 6	Newton's Apples	710 g turn-in		0.710 kg	1.57 lb	774 -64 -0.14
Student Payload 7				0.000 kg	0.00 lb	4646 -201 -0.44
Student Payload 8				0.000 kg	0.00 lb	total diff diff
Student Payload 9				0.000 kg	0.00 lb	NECK LIFT (lb) 20.77 -0.54
Student Payload 10				0.000 kg	0.00 lb	orig diff
Student Payload 11				0.000 kg	0.00 lb	
Student Payload 12				0.000 kg	0.00 lb	Student Total 4.445 kg 9.80 lb
			Gross Mass	10.065 kg	22.19 lb	Remaining (if exempt) -1.102 kg -2.43 lb
			Neck Load	7.065 kg	15.58 lb	Neck Load Remaining 4.935 kg 10.88 lb
			Gross Lift	119.432 N	26.85 lbf	
			Neck Lift	90.012 N	20.24 lbf	Lift Factor 1.21
			Free Lift	20.728 N	4.66 lbf	
Lift Gas	H2	MSL Volume at 0C	10.27 m ³	363 ft ³		NECK LIFT (lb) 20.24
Lanuch Site Alt (km) (Use 0)	0.00	Ascent Rate	4.77 m/s	939 ft/min		
15)	15.0	Burst Alt	33.0 km	108.3 kft		

plus 0.3 lb per balloon crew