

**Payload Plan** (string 4)

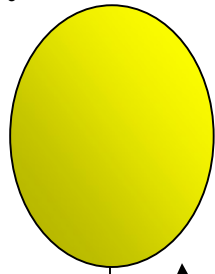
**EOSS-374 Lite**

**Rev B**

(change ADS-B unit)

**0725 MDT 12 Apr 2025**

**Deer Trail, CO**



1500 gm latex balloon

20 ft 240# woven nylon



12 ft Rocketman parachute with remote release Adam 770 g (1.70 #)



KCØD-2 JP02 DF/APRS  
145.765 MHz 471 g (1.04 #)

11 ft



**N991SS ADS-B**  
Total wt: 575 g (1.27 #) Squawk: 4453

8 ft

6 ft

**2 MSU DemoSat Payloads**  
**1 MSU Camera Payload**  
**1 CU-Boulder DemoSat Payload**  
Spaced @ 24" on 500# woven nylon  
Total wt : 3,747 g (prelim) (8.26 #)

(lightest to heaviest)  
CU-BOULDER  
WOLF PACK  
OCTONAUTS  
INSTRUCTOR CAMERA

13 ft



AEØSS-2 Discovery JP02 ADSB/Digi  
Alias = "DISC"  
Time slotted at 0:08 and 0:38  
144.340 MHz 471g (1.04 #)

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
AEØSS-2/ EOSS-374

Item	Weight pounds	Weight kg
Student Experiments	8.26	3.747
EOSS Payloads	3.38	1.531
Parachute	1.70	0.770
Neck load	13.33	6.048
Balloon	3.31	1.500
Gross Weight	16.64	7.548
Gross Lift Factor	1.30	1.30
Neck Lift	18.33	8.311
H2 fill; scf (approx)	292	
Burst Altitude; kft km	92.5	28.2
<b>Manual Release Altitude kft</b>	<b>90.5</b>	

[www.wxqa.com/sss/balon1.cgi](http://www.wxqa.com/sss/balon1.cgi)  
KCØD-2 / EOSS-374