

Market Requirements		Importance		Performance Measures		Units												
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	Capable of flight for extended period of time	9	●	●	●	●												
2	Capable of traveling an extended distance	9	●	●	●	●	●											
3	Minimize flight path deviation	9						●	●	●	●							
4	Components are protected	9										●	●					
5	Complies with AMA safety code	9												●				
6	Capable of carrying UGV and water bottle	3		●	●	●	●	●							●	●		
7	Fast and cheap rebuild	3											●				●	●

Measured	Predicted	Target	Upper Acceptable	Ideal	Lower Acceptable
50	60	60	N/A	75	40
5	7.5	7.5	N/A	20	5
N/A	0.405	0.35	N/A	1	0.2
4.5	4.5	4.5	10	2	0
14.5	14	14	30	13	10
11	11	10	20	10	N/A
N/A	0.3187	0	0.4	-0.05	-0.1
0.057	0.06	0.1	0.15	0.1	0
N/A	0.10452	0.1	0.15	0.1	0.05
N/A	0.06032	0	0.1	-0.1	-0.15
0	0	0	0	0	0
0	0	0	0	0	0
0	0	0	0	0	0
0.7	0.7	0.7	1	0.5	0.35
10766	7974	8000	12000	10000	6000
8	10	10	24	0	N/A
6	8	8	10	10	5