rotation rate	rotation rate	rotation rate	period of rotation	beam width	beam width	exposure duration	duty cycle
		$\omega = (RPM \times 2 \times \pi) / 60$	$T = 2\pi/\omega$	θ	θ	$t = \theta/\omega$	t/T
deg/sec	RPM	rad/sec	sec	deg	rad	sec	
330	55	5.7596	1.091	1.5	0.02618	0.004545	0.004167
72	12	1.2566	5.00	1.5	0.02618	0.020833	0.004167
36	6	0.6283	10.0	1.5	0.02618	0.041667	0.004167
18	3	0.3142	20.0	1.5	0.02618	0.083333	0.004167

power	power	antenna gain	EIRP	distance	power density	duty cycle	average power density
P	P	G	$P \times 10^{(G/10)}$	R	$PD = EIRP/4\pi R^2$	t/T	$PD \times (t/T)$
dBm	mW	dBi	mW	cm	mW/cm^2		mW/cm^2
29.0	800	32.5	1422624	22	233.9	0.004167	0.97