

Routinely Licensed Input power density (dBW/4 kHz) -14 Digital  
Maximum antenna Gain (dBi) @ 14.25 GHz 41.8  
Max EIRP density (dBW/4 kHz) for proposed Earth Station 18.74  
Non-routinely sized antenna input Power density (dBW/4 kHz) -23.06

Value of Theta (degrees)	25.209(a)(1) Co-Pol Gain	Off-Axis EIRP Density under Routine Licensing	Non-Routinely sized Antenna Off-Axis Gain (dBi)	Max off-axis EIRP Density of non-routinely sized antenna (dBW/4kHz)	Margin
1.25	26.6	12.6	35.04	11.98	0.60
1.3	26.2	12.2	33.84	10.78	1.37
1.4	25.3	11.3	32.41	9.35	2.00
1.5	24.6	10.6	30.82	7.76	2.84
1.6	23.9	9.9	28.92	5.86	4.04
1.7	23.2	9.2	26.65	3.59	5.65
1.8	22.6	8.6	24.1	0.99	7.63
1.9	22.0	8.0	22.0	-1.06	9.09
2	21.5	7.5	21.5	-1.56	9.03
2.1	20.9	6.9	20.9	-2.16	9.10
2.2	20.4	6.4	20.4	-2.66	9.10
2.3	20.0	6.0	20.0	-3.06	9.02
2.4	19.5	5.5	19.5	-3.56	9.05
2.5	19.1	5.1	19.1	-3.96	9.01
2.6	18.6	4.6	18.6	-4.46	9.09
2.7	18.2	4.2	18.2	-4.86	9.08
2.8	17.8	3.8	17.8	-5.26	9.08
2.9	17.4	3.4	17.4	-5.62	9.06
3	17.1	3.1	17.1	-5.99	9.06
3.5	15.4	1.4	15.4	-7.67	9.07
4	13.9	-0.1	13.9	-9.12	9.07
4.5	12.7	-1.3	12.7	-10.39	9.06
5	11.5	-2.5	11.5	-11.54	9.07
5.5	10.5	-3.5	10.5	-12.57	9.06
6	9.5	-4.5	9.5	-13.52	9.07
6.5	8.7	-5.3	8.7	-14.39	9.07
7	7.9	-6.1	7.9	-15.19	9.06
7.1	8.0	-6.0	7.7	-15.35	9.35
8	8.0	-6.0	6.4	-16.64	10.64
9.2	8.0	-6.0	4.9	-18.16	12.16
10	7.0	-7.0	4.0	-19.06	12.06
11	6.0	-8.0	3.0	-20.10	12.07
12	5.0	-9.0	2.0	-21.04	12.06
15	2.6	-11.4	-0.4	-23.46	12.06
20	-0.5	-14.5	-3.5	-26.56	12.03
25	-2.9	-16.9	-3.5	-26.56	9.61
30	-4.9	-18.9	-4.9	-27.96	9.03
35	-6.6	-20.6	-6.6	-29.66	9.06
40	-8.1	-22.1	-8.1	-31.11	9.06
48	-10.0	-24.0	-10.0	-33.06	9.03

50	-10.0	-24.0	-10.0	-33.06	9.06
60	-10.0	-24.0	-10.0	-33.06	9.06
70	-10.0	-24.0	-10.0	-33.06	9.06
80	-10.0	-24.0	-10.0	-33.06	9.06
90	-10.0	-24.0	-10.0	-33.06	9.06
100	-10.0	-24.0	-10.0	-33.06	9.06
120	-10.0	-24.0	-10.0	-33.06	9.06
140	-10.0	-24.0	-10.0	-33.06	9.06
160	-10.0	-24.0	-10.0	-33.06	9.06
180	-10.0	-24.0	-10.0	-33.06	9.06

**Minimum Margin**

1.37