

Figure 11

Temperature/kelvin	Temperature^4/kelvin^4
1000	1000000000000
2000	16000000000000
3000	81000000000000
4000	256000000000000
5000	625000000000000
6000	1296000000000000
7000	2401000000000000
8000	4096000000000000
9000	6561000000000000
10000	1E+016
11000	1.4641E+016
12000	2.0736E+016
13000	2.8561E+016
14000	3.8416E+016
15000	5.0625E+016
16000	6.5536E+016
17000	8.3521E+016
18000	1.04976E+017
19000	1.30321E+017
20000	1.6E+017
21000	1.94481E+017
22000	2.34256E+017
23000	2.79841E+017
24000	3.31776E+017
25000	3.90625E+017
26000	4.56976E+017
27000	5.31441E+017
28000	6.14656E+017
29000	7.07281E+017
30000	8.1E+017
31000	9.23521E+017
32000	1.048576E+018
33000	1.185921E+018
34000	1.336336E+018
35000	1.500625E+018
36000	1.679616E+018
37000	1.874161E+018
38000	2.085136E+018
39000	2.313441E+018
40000	2.56E+018
41000	2.825761E+018
42000	3.111696E+018
43000	3.418801E+018
44000	3.748096E+018
45000	4.100625E+018
46000	4.477456E+018
47000	4.879681E+018
48000	5.308416E+018
49000	5.764801E+018
50000	6.25E+018

Figure 12

Stefan-Boltzmann constant	Temperature/kelvin	Temperature <sup>4</sup> /kelvin <sup>4</sup>	Flux/watts per square metre
5.67E-008	1000	1.00E+012	5.67E+004
W m <sup>-2</sup> K <sup>-4</sup>	2000	1.60E+013	9.07E+005
	3000	8.10E+013	4.59E+006
	4000	2.56E+014	1.45E+007
	5000	6.25E+014	3.54E+007
	6000	1.30E+015	7.35E+007
	7000	2.40E+015	1.36E+008
	8000	4.10E+015	2.32E+008
	9000	6.56E+015	3.72E+008
	10000	1.00E+016	5.67E+008
	11000	1.46E+016	8.30E+008
	12000	2.07E+016	1.18E+009
	13000	2.86E+016	1.62E+009
	14000	3.84E+016	2.18E+009
	15000	5.06E+016	2.87E+009
	16000	6.55E+016	3.72E+009
	17000	8.35E+016	4.74E+009
	18000	1.05E+017	5.95E+009
	19000	1.30E+017	7.39E+009
	20000	1.60E+017	9.07E+009
	21000	1.94E+017	1.10E+010
	22000	2.34E+017	1.33E+010
	23000	2.80E+017	1.59E+010
	24000	3.32E+017	1.88E+010
	25000	3.91E+017	2.21E+010
	26000	4.57E+017	2.59E+010
	27000	5.31E+017	3.01E+010
	28000	6.15E+017	3.49E+010
	29000	7.07E+017	4.01E+010
	30000	8.10E+017	4.59E+010
	31000	9.24E+017	5.24E+010
	32000	1.05E+018	5.95E+010
	33000	1.19E+018	6.72E+010
	34000	1.34E+018	7.58E+010
	35000	1.50E+018	8.51E+010
	36000	1.68E+018	9.52E+010
	37000	1.87E+018	1.06E+011
	38000	2.09E+018	1.18E+011
	39000	2.31E+018	1.31E+011
	40000	2.56E+018	1.45E+011
	41000	2.83E+018	1.60E+011
	42000	3.11E+018	1.76E+011
	43000	3.42E+018	1.94E+011
	44000	3.75E+018	2.13E+011
	45000	4.10E+018	2.33E+011
	46000	4.48E+018	2.54E+011
	47000	4.88E+018	2.77E+011
	48000	5.31E+018	3.01E+011
	49000	5.76E+018	3.27E+011
	50000	6.25E+018	3.54E+011



Figure 13

Stefan-Boltzmann constant	Temperature/kelvin	Temperature <sup>4</sup> /kelvin <sup>4</sup>	Flux/watts per square metre
5.67E-008	1000	1.00E+012	5.67E+004
W m <sup>-2</sup> K <sup>-4</sup>	2000	1.60E+013	9.07E+005
	3000	8.10E+013	4.59E+006
	4000	2.56E+014	1.45E+007
	5000	6.25E+014	3.54E+007
	6000	1.30E+015	7.35E+007
	7000	2.40E+015	1.36E+008
	8000	4.10E+015	2.32E+008
	9000	6.56E+015	3.72E+008
	10000	1.00E+016	5.67E+008
	11000	1.46E+016	8.30E+008
	12000	2.07E+016	1.18E+009
	13000	2.86E+016	1.62E+009
	14000	3.84E+016	2.18E+009
	15000	5.06E+016	2.87E+009
	16000	6.55E+016	3.72E+009
	17000	8.35E+016	4.74E+009
	18000	1.05E+017	5.95E+009
	19000	1.30E+017	7.39E+009
	20000	1.60E+017	9.07E+009
	21000	1.94E+017	1.10E+010
	22000	2.34E+017	1.33E+010
	23000	2.80E+017	1.59E+010
	24000	3.32E+017	1.88E+010
	25000	3.91E+017	2.21E+010
	26000	4.57E+017	2.59E+010
	27000	5.31E+017	3.01E+010
	28000	6.15E+017	3.49E+010
	29000	7.07E+017	4.01E+010
	30000	8.10E+017	4.59E+010
	31000	9.24E+017	5.24E+010
	32000	1.05E+018	5.95E+010
	33000	1.19E+018	6.72E+010
	34000	1.34E+018	7.58E+010
	35000	1.50E+018	8.51E+010
	36000	1.68E+018	9.52E+010
	37000	1.87E+018	1.06E+011
	38000	2.09E+018	1.18E+011
	39000	2.31E+018	1.31E+011
	40000	2.56E+018	1.45E+011
	41000	2.83E+018	1.60E+011
	42000	3.11E+018	1.76E+011
	43000	3.42E+018	1.94E+011
	44000	3.75E+018	2.13E+011
	45000	4.10E+018	2.33E+011
	46000	4.48E+018	2.54E+011
	47000	4.88E+018	2.77E+011
	48000	5.31E+018	3.01E+011
	49000	5.76E+018	3.27E+011
	50000	6.25E+018	3.54E+011

### Blackbody flux



Figure 13

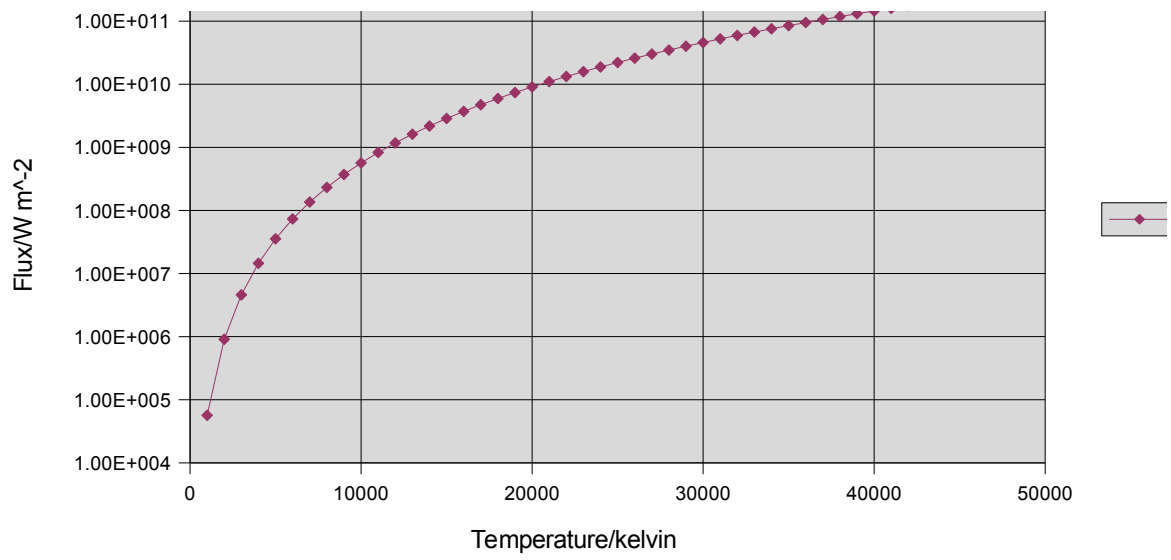




Figure 13

- Flux/watts per square metre