Blackbody Source

Input Data			Calculated Outputs		
Blackbody temperature, Celsius (Tc)	5500	C	Blackbody temperature, Kelvin (Tk)	=Tc+273	K
Emissivity (emisiv)	0.06		Total radiance (B)	=emisiv*0.0000000000018047*Tk^4	W/sr/cm2
Wavelength λ (exw)	550	nm	Spectral radiance at λ (Blambda)	=emisiv * 1.19E+016 * exw^-5/(EXP(14380000/(exw*Tk))-1)	W/sr/nm/cm2
Flicker (fluctuation) noise fraction	0.01		Wavelength of maximum emission	=2897000/Tk	nm
			Energy of photon at λ	=6.6261E-034*30000000000*10000000/exw	Joules/photon
			Photon flux	=F7/F9	photon/sec/sr/nm
			total UV (150-400 nm)	=SUM(F23:F42)*(E19-E18)	W/sr/nm/cm2
			total Visible (400-800 nm)	=SUM(F43:F82)*(E19-E18)	W/sr/nm/cm2
			total IR (800-3500 nm)	=SUM(F83:F353)*(E19-E18)	W/sr/nm/cm2
			Fraction of radiation visible	=F12/SUM(F11:F13)	
			Total radiance from graph	=SUM(F11:F13)	W/sr/cm2

				Wavelength, nm	Spectral radiance	
				150	=emisiv * 1.19E+016 * E18^-5/(EXP(14380000/(E18*Tk))-1)	
				=E18+10	=emisiv * 1.19E+016 * E19^-5/(EXP(14380000/(E19*Tk))-1)	
				=E19+10	=emisiv * 1.19E+016 * E20^-5/(EXP(14380000/(E20*Tk))-1)	
				=E20+10	=emisiv * 1.19E+016 * E21^-5/(EXP(14380000/(E21*Tk))-1)	
				=E21+10	=emisiv * 1.19E+016 * E22^-5/(EXP(14380000/(E22*Tk))-1)	
				=E22+10	=emisiv * 1.19E+016 * E23^-5/(EXP(14380000/(E23*Tk))-1)	
				=E23+10	=emisiv * 1.19E+016 * E24^-5/(EXP(14380000/(E24*Tk))-1)	
				=E24+10	=emisiv * 1.19E+016 * E25^-5/(EXP(14380000/(E25*Tk))-1)	
				=E25+10	=emisiv * 1.19E+016 * E26^-5/(EXP(14380000/(E26*Tk))-1)	
				=E26+10	=emisiv * 1.19E+016 * E27^-5/(EXP(14380000/(E27*Tk))-1)	
				=E27+10	=emisiv * 1.19E+016 * E28^-5/(EXP(14380000/(E28*Tk))-1)	
				=E28+10	=emisiv * 1.19E+016 * E29^-5/(EXP(14380000/(E29*Tk))-1)	
				=E29+10	=emisiv * 1.19E+016 * E30^-5/(EXP(14380000/(E30*Tk))-1)	
				=E30+10	=emisiv * 1.19E+016 * E31^-5/(EXP(14380000/(E31*Tk))-1)	
				=E31+10	=emisiv * 1.19E+016 * E32^-5/(EXP(14380000/(E32*Tk))-1)	
				=E32+10	=emisiv * 1.19E+016 * E33^-5/(EXP(14380000/(E33*Tk))-1)	
				=E33+10	=emisiv * 1.19E+016 * E34^-5/(EXP(14380000/(E34*Tk))-1)	
				=E34+10	=emisiv * 1.19E+016 * E35^-5/(EXP(14380000/(E35*Tk))-1)	
				=E35+10	=emisiv * 1.19E+016 * E36^-5/(EXP(14380000/(E36*Tk))-1)	
				=E36+10	=emisiv * 1.19E+016 * E37^-5/(EXP(14380000/(E37*Tk))-1)	
				=E37+10	=emisiv * 1.19E+016 * E38^-5/(EXP(14380000/(E38*Tk))-1)	
				=E38+10	=emisiv * 1.19E+016 * E39^-5/(EXP(14380000/(E39*Tk))-1)	
				=E39+10	=emisiv * 1.19E+016 * E40^-5/(EXP(14380000/(E40*Tk))-1)	
				=E40+10	=emisiv * 1.19E+016 * E41^-5/(EXP(14380000/(E41*Tk))-1)	
				=E41+10	=emisiv * 1.19E+016 * E42^-5/(EXP(14380000/(E42*Tk))-1)	
				=E42+10	=emisiv * 1.19E+016 * E43^-5/(EXP(14380000/(E43*Tk))-1)	
				=E43+10	=emisiv * 1.19E+016 * E44^-5/(EXP(14380000/(E44*Tk))-1)	
				=E44+10	=emisiv * 1.19E+016 * E45^-5/(EXP(14380000/(E45*Tk))-1)	
				=E45+10	=emisiv * 1.19E+016 * E46^-5/(EXP(14380000/(E46*Tk))-1)	
				=E46+10	=emisiv * 1.19E+016 * E47^-5/(EXP(14380000/(E47*Tk))-1)	
				=E47+10	=emisiv * 1.19E+016 * E48^-5/(EXP(14380000/(E48*Tk))-1)	
				=E48+10	=emisiv * 1.19E+016 * E49^-5/(EXP(14380000/(E49*Tk))-1)	
				=E49+10	=emisiv * 1.19E+016 * E50^-5/(EXP(14380000/(E50*Tk))-1)	
				=E50+10	=emisiv * 1.19E+016 * E51^-5/(EXP(14380000/(E51*Tk))-1)	

				=E51+10	=emisiv * 1.19E+016 * E52^-5/(EXP(14380000/(E52*Tk))-1)	
				=E52+10	=emisiv * 1.19E+016 * E53^-5/(EXP(14380000/(E53*Tk))-1)	
				=E53+10	=emisiv * 1.19E+016 * E54^-5/(EXP(14380000/(E54*Tk))-1)	
				=E54+10	=emisiv * 1.19E+016 * E55^-5/(EXP(14380000/(E55*Tk))-1)	
				=E55+10	=emisiv * 1.19E+016 * E56^-5/(EXP(14380000/(E56*Tk))-1)	
				=E56+10	=emisiv * 1.19E+016 * E57^-5/(EXP(14380000/(E57*Tk))-1)	
				=E57+10	=emisiv * 1.19E+016 * E58^-5/(EXP(14380000/(E58*Tk))-1)	
				=E58+10	=emisiv * 1.19E+016 * E59^-5/(EXP(14380000/(E59*Tk))-1)	
				=E59+10	=emisiv * 1.19E+016 * E60^-5/(EXP(14380000/(E60*Tk))-1)	
				=E60+10	=emisiv * 1.19E+016 * E61^-5/(EXP(14380000/(E61*Tk))-1)	
				=E61+10	=emisiv * 1.19E+016 * E62^-5/(EXP(14380000/(E62*Tk))-1)	
				=E62+10	=emisiv * 1.19E+016 * E63^-5/(EXP(14380000/(E63*Tk))-1)	
				=E63+10	=emisiv * 1.19E+016 * E64^-5/(EXP(14380000/(E64*Tk))-1)	
				=E64+10	=emisiv * 1.19E+016 * E65^-5/(EXP(14380000/(E65*Tk))-1)	
				=E65+10	=emisiv * 1.19E+016 * E66^-5/(EXP(14380000/(E66*Tk))-1)	
				=E66+10	=emisiv * 1.19E+016 * E67^-5/(EXP(14380000/(E67*Tk))-1)	
				=E67+10	=emisiv * 1.19E+016 * E68^-5/(EXP(14380000/(E68*Tk))-1)	
				=E68+10	=emisiv * 1.19E+016 * E69^-5/(EXP(14380000/(E69*Tk))-1)	
				=E69+10	=emisiv * 1.19E+016 * E70^-5/(EXP(14380000/(E70*Tk))-1)	
				=E70+10	=emisiv * 1.19E+016 * E71^-5/(EXP(14380000/(E71*Tk))-1)	
				=E71+10	=emisiv * 1.19E+016 * E72^-5/(EXP(14380000/(E72*Tk))-1)	
				=E72+10	=emisiv * 1.19E+016 * E73^-5/(EXP(14380000/(E73*Tk))-1)	
				=E73+10	=emisiv * 1.19E+016 * E74^-5/(EXP(14380000/(E74*Tk))-1)	
				=E74+10	=emisiv * 1.19E+016 * E75^-5/(EXP(14380000/(E75*Tk))-1)	
				=E75+10	=emisiv * 1.19E+016 * E76^-5/(EXP(14380000/(E76*Tk))-1)	
				=E76+10	=emisiv * 1.19E+016 * E77^-5/(EXP(14380000/(E77*Tk))-1)	
				=E77+10	=emisiv * 1.19E+016 * E78^-5/(EXP(14380000/(E78*Tk))-1)	
				=E78+10	=emisiv * 1.19E+016 * E79^-5/(EXP(14380000/(E79*Tk))-1)	
				=E79+10	=emisiv * 1.19E+016 * E80^-5/(EXP(14380000/(E80*Tk))-1)	
				=E80+10	=emisiv * 1.19E+016 * E81^-5/(EXP(14380000/(E81*Tk))-1)	
				=E81+10	=emisiv * 1.19E+016 * E82^-5/(EXP(14380000/(E82*Tk))-1)	
				=E82+10	=emisiv * 1.19E+016 * E83^-5/(EXP(14380000/(E83*Tk))-1)	
				=E83+10	=emisiv * 1.19E+016 * E84^-5/(EXP(14380000/(E84*Tk))-1)	
				=E84+10	=emisiv * 1.19E+016 * E85^-5/(EXP(14380000/(E85*Tk))-1)	
				=E85+10	=emisiv * 1.19E+016 * E86^-5/(EXP(14380000/(E86*Tk))-1)	
				=E86+10	=emisiv * 1.19E+016 * E87^-5/(EXP(14380000/(E87*Tk))-1)	
				=E87+10	=emisiv * 1.19E+016 * E88^-5/(EXP(14380000/(E88*Tk))-1)	
				=E88+10	=emisiv * 1.19E+016 * E89^-5/(EXP(14380000/(E89*Tk))-1)	

				=E89+10	=emisiv * 1.19E+016 * E90^-5/(EXP(14380000/(E90*Tk))-1)	
				=E90+10	=emisiv * 1.19E+016 * E91^-5/(EXP(14380000/(E91*Tk))-1)	
				=E91+10	=emisiv * 1.19E+016 * E92^-5/(EXP(14380000/(E92*Tk))-1)	
				=E92+10	=emisiv * 1.19E+016 * E93^-5/(EXP(14380000/(E93*Tk))-1)	
				=E93+10	=emisiv * 1.19E+016 * E94^-5/(EXP(14380000/(E94*Tk))-1)	
				=E94+10	=emisiv * 1.19E+016 * E95^-5/(EXP(14380000/(E95*Tk))-1)	
				=E95+10	=emisiv * 1.19E+016 * E96^-5/(EXP(14380000/(E96*Tk))-1)	
				=E96+10	=emisiv * 1.19E+016 * E97^-5/(EXP(14380000/(E97*Tk))-1)	
				=E97+10	=emisiv * 1.19E+016 * E98^-5/(EXP(14380000/(E98*Tk))-1)	
				=E98+10	=emisiv * 1.19E+016 * E99^-5/(EXP(14380000/(E99*Tk))-1)	
				=E99+10	=emisiv * 1.19E+016 * E100^-5/(EXP(14380000/(E100*Tk))-1)	
				=E100+10	=emisiv * 1.19E+016 * E101^-5/(EXP(14380000/(E101*Tk))-1)	
				=E101+10	=emisiv * 1.19E+016 * E102^-5/(EXP(14380000/(E102*Tk))-1)	
				=E102+10	=emisiv * 1.19E+016 * E103^-5/(EXP(14380000/(E103*Tk))-1)	
				=E103+10	=emisiv * 1.19E+016 * E104^-5/(EXP(14380000/(E104*Tk))-1)	
				=E104+10	=emisiv * 1.19E+016 * E105^-5/(EXP(14380000/(E105*Tk))-1)	
				=E105+10	=emisiv * 1.19E+016 * E106^-5/(EXP(14380000/(E106*Tk))-1)	
				=E106+10	=emisiv * 1.19E+016 * E107^-5/(EXP(14380000/(E107*Tk))-1)	
				=E107+10	=emisiv * 1.19E+016 * E108^-5/(EXP(14380000/(E108*Tk))-1)	
				=E108+10	=emisiv * 1.19E+016 * E109^-5/(EXP(14380000/(E109*Tk))-1)	
				=E109+10	=emisiv * 1.19E+016 * E110^-5/(EXP(14380000/(E110*Tk))-1)	
				=E110+10	=emisiv * 1.19E+016 * E111^-5/(EXP(14380000/(E111*Tk))-1)	
				=E111+10	=emisiv * 1.19E+016 * E112^-5/(EXP(14380000/(E112*Tk))-1)	
				=E112+10	=emisiv * 1.19E+016 * E113^-5/(EXP(14380000/(E113*Tk))-1)	
				=E113+10	=emisiv * 1.19E+016 * E114^-5/(EXP(14380000/(E114*Tk))-1)	
				=E114+10	=emisiv * 1.19E+016 * E115^-5/(EXP(14380000/(E115*Tk))-1)	
				=E115+10	=emisiv * 1.19E+016 * E116^-5/(EXP(14380000/(E116*Tk))-1)	
				=E116+10	=emisiv * 1.19E+016 * E117^-5/(EXP(14380000/(E117*Tk))-1)	
				=E117+10	=emisiv * 1.19E+016 * E118^-5/(EXP(14380000/(E118*Tk))-1)	
				=E118+10	=emisiv * 1.19E+016 * E119^-5/(EXP(14380000/(E119*Tk))-1)	
				=E119+10	=emisiv * 1.19E+016 * E120^-5/(EXP(14380000/(E120*Tk))-1)	
				=E120+10	=emisiv * 1.19E+016 * E121^-5/(EXP(14380000/(E121*Tk))-1)	
				=E121+10	=emisiv * 1.19E+016 * E122^-5/(EXP(14380000/(E122*Tk))-1)	
				=E122+10	=emisiv * 1.19E+016 * E123^-5/(EXP(14380000/(E123*Tk))-1)	
				=E123+10	=emisiv * 1.19E+016 * E124^-5/(EXP(14380000/(E124*Tk))-1)	
				=E124+10	=emisiv * 1.19E+016 * E125^-5/(EXP(14380000/(E125*Tk))-1)	
				=E125+10	=emisiv * 1.19E+016 * E126^-5/(EXP(14380000/(E126*Tk))-1)	
				=E126+10	=emisiv * 1.19E+016 * E127^-5/(EXP(14380000/(E127*Tk))-1)	

				=E127+10	=emisiv * 1.19E+016 * E128^-5/(EXP(14380000/(E128*Tk))-1)	
				=E128+10	=emisiv * 1.19E+016 * E129^-5/(EXP(14380000/(E129*Tk))-1)	
				=E129+10	=emisiv * 1.19E+016 * E130^-5/(EXP(14380000/(E130*Tk))-1)	
				=E130+10	=emisiv * 1.19E+016 * E131^-5/(EXP(14380000/(E131*Tk))-1)	
				=E131+10	=emisiv * 1.19E+016 * E132^-5/(EXP(14380000/(E132*Tk))-1)	
				=E132+10	=emisiv * 1.19E+016 * E133^-5/(EXP(14380000/(E133*Tk))-1)	
				=E133+10	=emisiv * 1.19E+016 * E134^-5/(EXP(14380000/(E134*Tk))-1)	
				=E134+10	=emisiv * 1.19E+016 * E135^-5/(EXP(14380000/(E135*Tk))-1)	
				=E135+10	=emisiv * 1.19E+016 * E136^-5/(EXP(14380000/(E136*Tk))-1)	
				=E136+10	=emisiv * 1.19E+016 * E137^-5/(EXP(14380000/(E137*Tk))-1)	
				=E137+10	=emisiv * 1.19E+016 * E138^-5/(EXP(14380000/(E138*Tk))-1)	
				=E138+10	=emisiv * 1.19E+016 * E139^-5/(EXP(14380000/(E139*Tk))-1)	
				=E139+10	=emisiv * 1.19E+016 * E140^-5/(EXP(14380000/(E140*Tk))-1)	
				=E140+10	=emisiv * 1.19E+016 * E141^-5/(EXP(14380000/(E141*Tk))-1)	
				=E141+10	=emisiv * 1.19E+016 * E142^-5/(EXP(14380000/(E142*Tk))-1)	
				=E142+10	=emisiv * 1.19E+016 * E143^-5/(EXP(14380000/(E143*Tk))-1)	
				=E143+10	=emisiv * 1.19E+016 * E144^-5/(EXP(14380000/(E144*Tk))-1)	
				=E144+10	=emisiv * 1.19E+016 * E145^-5/(EXP(14380000/(E145*Tk))-1)	
				=E145+10	=emisiv * 1.19E+016 * E146^-5/(EXP(14380000/(E146*Tk))-1)	
				=E146+10	=emisiv * 1.19E+016 * E147^-5/(EXP(14380000/(E147*Tk))-1)	
				=E147+10	=emisiv * 1.19E+016 * E148^-5/(EXP(14380000/(E148*Tk))-1)	
				=E148+10	=emisiv * 1.19E+016 * E149^-5/(EXP(14380000/(E149*Tk))-1)	
				=E149+10	=emisiv * 1.19E+016 * E150^-5/(EXP(14380000/(E150*Tk))-1)	
				=E150+10	=emisiv * 1.19E+016 * E151^-5/(EXP(14380000/(E151*Tk))-1)	
				=E151+10	=emisiv * 1.19E+016 * E152^-5/(EXP(14380000/(E152*Tk))-1)	
				=E152+10	=emisiv * 1.19E+016 * E153^-5/(EXP(14380000/(E153*Tk))-1)	
				=E153+10	=emisiv * 1.19E+016 * E154^-5/(EXP(14380000/(E154*Tk))-1)	
				=E154+10	=emisiv * 1.19E+016 * E155^-5/(EXP(14380000/(E155*Tk))-1)	
				=E155+10	=emisiv * 1.19E+016 * E156^-5/(EXP(14380000/(E156*Tk))-1)	
				=E156+10	=emisiv * 1.19E+016 * E157^-5/(EXP(14380000/(E157*Tk))-1)	
				=E157+10	=emisiv * 1.19E+016 * E158^-5/(EXP(14380000/(E158*Tk))-1)	
				=E158+10	=emisiv * 1.19E+016 * E159^-5/(EXP(14380000/(E159*Tk))-1)	
				=E159+10	=emisiv * 1.19E+016 * E160^-5/(EXP(14380000/(E160*Tk))-1)	
				=E160+10	=emisiv * 1.19E+016 * E161^-5/(EXP(14380000/(E161*Tk))-1)	
				=E161+10	=emisiv * 1.19E+016 * E162^-5/(EXP(14380000/(E162*Tk))-1)	
				=E162+10	=emisiv * 1.19E+016 * E163^-5/(EXP(14380000/(E163*Tk))-1)	
				=E163+10	=emisiv * 1.19E+016 * E164^-5/(EXP(14380000/(E164*Tk))-1)	
				=E164+10	=emisiv * 1.19E+016 * E165^-5/(EXP(14380000/(E165*Tk))-1)	

				=E165+10	=emisiv * 1.19E+016 * E166^-5/(EXP(14380000/(E166*Tk))-1)	
				=E166+10	=emisiv * 1.19E+016 * E167^-5/(EXP(14380000/(E167*Tk))-1)	
				=E167+10	=emisiv * 1.19E+016 * E168^-5/(EXP(14380000/(E168*Tk))-1)	
				=E168+10	=emisiv * 1.19E+016 * E169^-5/(EXP(14380000/(E169*Tk))-1)	
				=E169+10	=emisiv * 1.19E+016 * E170^-5/(EXP(14380000/(E170*Tk))-1)	
				=E170+10	=emisiv * 1.19E+016 * E171^-5/(EXP(14380000/(E171*Tk))-1)	
				=E171+10	=emisiv * 1.19E+016 * E172^-5/(EXP(14380000/(E172*Tk))-1)	
				=E172+10	=emisiv * 1.19E+016 * E173^-5/(EXP(14380000/(E173*Tk))-1)	
				=E173+10	=emisiv * 1.19E+016 * E174^-5/(EXP(14380000/(E174*Tk))-1)	
				=E174+10	=emisiv * 1.19E+016 * E175^-5/(EXP(14380000/(E175*Tk))-1)	
				=E175+10	=emisiv * 1.19E+016 * E176^-5/(EXP(14380000/(E176*Tk))-1)	
				=E176+10	=emisiv * 1.19E+016 * E177^-5/(EXP(14380000/(E177*Tk))-1)	
				=E177+10	=emisiv * 1.19E+016 * E178^-5/(EXP(14380000/(E178*Tk))-1)	
				=E178+10	=emisiv * 1.19E+016 * E179^-5/(EXP(14380000/(E179*Tk))-1)	
				=E179+10	=emisiv * 1.19E+016 * E180^-5/(EXP(14380000/(E180*Tk))-1)	
				=E180+10	=emisiv * 1.19E+016 * E181^-5/(EXP(14380000/(E181*Tk))-1)	
				=E181+10	=emisiv * 1.19E+016 * E182^-5/(EXP(14380000/(E182*Tk))-1)	
				=E182+10	=emisiv * 1.19E+016 * E183^-5/(EXP(14380000/(E183*Tk))-1)	
				=E183+10	=emisiv * 1.19E+016 * E184^-5/(EXP(14380000/(E184*Tk))-1)	
				=E184+10	=emisiv * 1.19E+016 * E185^-5/(EXP(14380000/(E185*Tk))-1)	
				=E185+10	=emisiv * 1.19E+016 * E186^-5/(EXP(14380000/(E186*Tk))-1)	
				=E186+10	=emisiv * 1.19E+016 * E187^-5/(EXP(14380000/(E187*Tk))-1)	
				=E187+10	=emisiv * 1.19E+016 * E188^-5/(EXP(14380000/(E188*Tk))-1)	
				=E188+10	=emisiv * 1.19E+016 * E189^-5/(EXP(14380000/(E189*Tk))-1)	
				=E189+10	=emisiv * 1.19E+016 * E190^-5/(EXP(14380000/(E190*Tk))-1)	
				=E190+10	=emisiv * 1.19E+016 * E191^-5/(EXP(14380000/(E191*Tk))-1)	
				=E191+10	=emisiv * 1.19E+016 * E192^-5/(EXP(14380000/(E192*Tk))-1)	
				=E192+10	=emisiv * 1.19E+016 * E193^-5/(EXP(14380000/(E193*Tk))-1)	
				=E193+10	=emisiv * 1.19E+016 * E194^-5/(EXP(14380000/(E194*Tk))-1)	
				=E194+10	=emisiv * 1.19E+016 * E195^-5/(EXP(14380000/(E195*Tk))-1)	
				=E195+10	=emisiv * 1.19E+016 * E196^-5/(EXP(14380000/(E196*Tk))-1)	
				=E196+10	=emisiv * 1.19E+016 * E197^-5/(EXP(14380000/(E197*Tk))-1)	
				=E197+10	=emisiv * 1.19E+016 * E198^-5/(EXP(14380000/(E198*Tk))-1)	
				=E198+10	=emisiv * 1.19E+016 * E199^-5/(EXP(14380000/(E199*Tk))-1)	
				=E199+10	=emisiv * 1.19E+016 * E200^-5/(EXP(14380000/(E200*Tk))-1)	
				=E200+10	=emisiv * 1.19E+016 * E201^-5/(EXP(14380000/(E201*Tk))-1)	
				=E201+10	=emisiv * 1.19E+016 * E202^-5/(EXP(14380000/(E202*Tk))-1)	
				=E202+10	=emisiv * 1.19E+016 * E203^-5/(EXP(14380000/(E203*Tk))-1)	

				=E203+10	=emisiv * 1.19E+016 * E204^-5/(EXP(14380000/(E204*Tk))-1)	
				=E204+10	=emisiv * 1.19E+016 * E205^-5/(EXP(14380000/(E205*Tk))-1)	
				=E205+10	=emisiv * 1.19E+016 * E206^-5/(EXP(14380000/(E206*Tk))-1)	
				=E206+10	=emisiv * 1.19E+016 * E207^-5/(EXP(14380000/(E207*Tk))-1)	
				=E207+10	=emisiv * 1.19E+016 * E208^-5/(EXP(14380000/(E208*Tk))-1)	
				=E208+10	=emisiv * 1.19E+016 * E209^-5/(EXP(14380000/(E209*Tk))-1)	
				=E209+10	=emisiv * 1.19E+016 * E210^-5/(EXP(14380000/(E210*Tk))-1)	
				=E210+10	=emisiv * 1.19E+016 * E211^-5/(EXP(14380000/(E211*Tk))-1)	
				=E211+10	=emisiv * 1.19E+016 * E212^-5/(EXP(14380000/(E212*Tk))-1)	
				=E212+10	=emisiv * 1.19E+016 * E213^-5/(EXP(14380000/(E213*Tk))-1)	
				=E213+10	=emisiv * 1.19E+016 * E214^-5/(EXP(14380000/(E214*Tk))-1)	
				=E214+10	=emisiv * 1.19E+016 * E215^-5/(EXP(14380000/(E215*Tk))-1)	
				=E215+10	=emisiv * 1.19E+016 * E216^-5/(EXP(14380000/(E216*Tk))-1)	
				=E216+10	=emisiv * 1.19E+016 * E217^-5/(EXP(14380000/(E217*Tk))-1)	
				=E217+10	=emisiv * 1.19E+016 * E218^-5/(EXP(14380000/(E218*Tk))-1)	
				=E218+10	=emisiv * 1.19E+016 * E219^-5/(EXP(14380000/(E219*Tk))-1)	
				=E219+10	=emisiv * 1.19E+016 * E220^-5/(EXP(14380000/(E220*Tk))-1)	
				=E220+10	=emisiv * 1.19E+016 * E221^-5/(EXP(14380000/(E221*Tk))-1)	
				=E221+10	=emisiv * 1.19E+016 * E222^-5/(EXP(14380000/(E222*Tk))-1)	
				=E222+10	=emisiv * 1.19E+016 * E223^-5/(EXP(14380000/(E223*Tk))-1)	
				=E223+10	=emisiv * 1.19E+016 * E224^-5/(EXP(14380000/(E224*Tk))-1)	
				=E224+10	=emisiv * 1.19E+016 * E225^-5/(EXP(14380000/(E225*Tk))-1)	
				=E225+10	=emisiv * 1.19E+016 * E226^-5/(EXP(14380000/(E226*Tk))-1)	
				=E226+10	=emisiv * 1.19E+016 * E227^-5/(EXP(14380000/(E227*Tk))-1)	
				=E227+10	=emisiv * 1.19E+016 * E228^-5/(EXP(14380000/(E228*Tk))-1)	
				=E228+10	=emisiv * 1.19E+016 * E229^-5/(EXP(14380000/(E229*Tk))-1)	
				=E229+10	=emisiv * 1.19E+016 * E230^-5/(EXP(14380000/(E230*Tk))-1)	
				=E230+10	=emisiv * 1.19E+016 * E231^-5/(EXP(14380000/(E231*Tk))-1)	
				=E231+10	=emisiv * 1.19E+016 * E232^-5/(EXP(14380000/(E232*Tk))-1)	
				=E232+10	=emisiv * 1.19E+016 * E233^-5/(EXP(14380000/(E233*Tk))-1)	
				=E233+10	=emisiv * 1.19E+016 * E234^-5/(EXP(14380000/(E234*Tk))-1)	
				=E234+10	=emisiv * 1.19E+016 * E235^-5/(EXP(14380000/(E235*Tk))-1)	
				=E235+10	=emisiv * 1.19E+016 * E236^-5/(EXP(14380000/(E236*Tk))-1)	
				=E236+10	=emisiv * 1.19E+016 * E237^-5/(EXP(14380000/(E237*Tk))-1)	
				=E237+10	=emisiv * 1.19E+016 * E238^-5/(EXP(14380000/(E238*Tk))-1)	
				=E238+10	=emisiv * 1.19E+016 * E239^-5/(EXP(14380000/(E239*Tk))-1)	
				=E239+10	=emisiv * 1.19E+016 * E240^-5/(EXP(14380000/(E240*Tk))-1)	
				=E240+10	=emisiv * 1.19E+016 * E241^-5/(EXP(14380000/(E241*Tk))-1)	

				=E241+10	=emisiv * 1.19E+016 * E242^-5/(EXP(14380000/(E242*Tk))-1)	
				=E242+10	=emisiv * 1.19E+016 * E243^-5/(EXP(14380000/(E243*Tk))-1)	
				=E243+10	=emisiv * 1.19E+016 * E244^-5/(EXP(14380000/(E244*Tk))-1)	
				=E244+10	=emisiv * 1.19E+016 * E245^-5/(EXP(14380000/(E245*Tk))-1)	
				=E245+10	=emisiv * 1.19E+016 * E246^-5/(EXP(14380000/(E246*Tk))-1)	
				=E246+10	=emisiv * 1.19E+016 * E247^-5/(EXP(14380000/(E247*Tk))-1)	
				=E247+10	=emisiv * 1.19E+016 * E248^-5/(EXP(14380000/(E248*Tk))-1)	
				=E248+10	=emisiv * 1.19E+016 * E249^-5/(EXP(14380000/(E249*Tk))-1)	
				=E249+10	=emisiv * 1.19E+016 * E250^-5/(EXP(14380000/(E250*Tk))-1)	
				=E250+10	=emisiv * 1.19E+016 * E251^-5/(EXP(14380000/(E251*Tk))-1)	
				=E251+10	=emisiv * 1.19E+016 * E252^-5/(EXP(14380000/(E252*Tk))-1)	
				=E252+10	=emisiv * 1.19E+016 * E253^-5/(EXP(14380000/(E253*Tk))-1)	
				=E253+10	=emisiv * 1.19E+016 * E254^-5/(EXP(14380000/(E254*Tk))-1)	
				=E254+10	=emisiv * 1.19E+016 * E255^-5/(EXP(14380000/(E255*Tk))-1)	
				=E255+10	=emisiv * 1.19E+016 * E256^-5/(EXP(14380000/(E256*Tk))-1)	
				=E256+10	=emisiv * 1.19E+016 * E257^-5/(EXP(14380000/(E257*Tk))-1)	
				=E257+10	=emisiv * 1.19E+016 * E258^-5/(EXP(14380000/(E258*Tk))-1)	
				=E258+10	=emisiv * 1.19E+016 * E259^-5/(EXP(14380000/(E259*Tk))-1)	
				=E259+10	=emisiv * 1.19E+016 * E260^-5/(EXP(14380000/(E260*Tk))-1)	
				=E260+10	=emisiv * 1.19E+016 * E261^-5/(EXP(14380000/(E261*Tk))-1)	
				=E261+10	=emisiv * 1.19E+016 * E262^-5/(EXP(14380000/(E262*Tk))-1)	
				=E262+10	=emisiv * 1.19E+016 * E263^-5/(EXP(14380000/(E263*Tk))-1)	
				=E263+10	=emisiv * 1.19E+016 * E264^-5/(EXP(14380000/(E264*Tk))-1)	
				=E264+10	=emisiv * 1.19E+016 * E265^-5/(EXP(14380000/(E265*Tk))-1)	
				=E265+10	=emisiv * 1.19E+016 * E266^-5/(EXP(14380000/(E266*Tk))-1)	
				=E266+10	=emisiv * 1.19E+016 * E267^-5/(EXP(14380000/(E267*Tk))-1)	
				=E267+10	=emisiv * 1.19E+016 * E268^-5/(EXP(14380000/(E268*Tk))-1)	
				=E268+10	=emisiv * 1.19E+016 * E269^-5/(EXP(14380000/(E269*Tk))-1)	
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				=E270+10	=emisiv * 1.19E+016 * E271^-5/(EXP(14380000/(E271*Tk))-1)	
				=E271+10	=emisiv * 1.19E+016 * E272^-5/(EXP(14380000/(E272*Tk))-1)	
				=E272+10	=emisiv * 1.19E+016 * E273^-5/(EXP(14380000/(E273*Tk))-1)	
				=E273+10	=emisiv * 1.19E+016 * E274^-5/(EXP(14380000/(E274*Tk))-1)	
				=E274+10	=emisiv * 1.19E+016 * E275^-5/(EXP(14380000/(E275*Tk))-1)	
				=E275+10	=emisiv * 1.19E+016 * E276^-5/(EXP(14380000/(E276*Tk))-1)	
				=E276+10	=emisiv * 1.19E+016 * E277^-5/(EXP(14380000/(E277*Tk))-1)	
				=E277+10	=emisiv * 1.19E+016 * E278^-5/(EXP(14380000/(E278*Tk))-1)	
				=E278+10	=emisiv * 1.19E+016 * E279^-5/(EXP(14380000/(E279*Tk))-1)	

				=E279+10	=emisiv * 1.19E+016 * E280^-5/(EXP(14380000/(E280*Tk))-1)	
				=E280+10	=emisiv * 1.19E+016 * E281^-5/(EXP(14380000/(E281*Tk))-1)	
				=E281+10	=emisiv * 1.19E+016 * E282^-5/(EXP(14380000/(E282*Tk))-1)	
				=E282+10	=emisiv * 1.19E+016 * E283^-5/(EXP(14380000/(E283*Tk))-1)	
				=E283+10	=emisiv * 1.19E+016 * E284^-5/(EXP(14380000/(E284*Tk))-1)	
				=E284+10	=emisiv * 1.19E+016 * E285^-5/(EXP(14380000/(E285*Tk))-1)	
				=E285+10	=emisiv * 1.19E+016 * E286^-5/(EXP(14380000/(E286*Tk))-1)	
				=E286+10	=emisiv * 1.19E+016 * E287^-5/(EXP(14380000/(E287*Tk))-1)	
				=E287+10	=emisiv * 1.19E+016 * E288^-5/(EXP(14380000/(E288*Tk))-1)	
				=E288+10	=emisiv * 1.19E+016 * E289^-5/(EXP(14380000/(E289*Tk))-1)	
				=E289+10	=emisiv * 1.19E+016 * E290^-5/(EXP(14380000/(E290*Tk))-1)	
				=E290+10	=emisiv * 1.19E+016 * E291^-5/(EXP(14380000/(E291*Tk))-1)	
				=E291+10	=emisiv * 1.19E+016 * E292^-5/(EXP(14380000/(E292*Tk))-1)	
				=E292+10	=emisiv * 1.19E+016 * E293^-5/(EXP(14380000/(E293*Tk))-1)	
				=E293+10	=emisiv * 1.19E+016 * E294^-5/(EXP(14380000/(E294*Tk))-1)	
				=E294+10	=emisiv * 1.19E+016 * E295^-5/(EXP(14380000/(E295*Tk))-1)	
				=E295+10	=emisiv * 1.19E+016 * E296^-5/(EXP(14380000/(E296*Tk))-1)	
				=E296+10	=emisiv * 1.19E+016 * E297^-5/(EXP(14380000/(E297*Tk))-1)	
				=E297+10	=emisiv * 1.19E+016 * E298^-5/(EXP(14380000/(E298*Tk))-1)	
				=E298+10	=emisiv * 1.19E+016 * E299^-5/(EXP(14380000/(E299*Tk))-1)	
				=E299+10	=emisiv * 1.19E+016 * E300^-5/(EXP(14380000/(E300*Tk))-1)	
				=E300+10	=emisiv * 1.19E+016 * E301^-5/(EXP(14380000/(E301*Tk))-1)	
				=E301+10	=emisiv * 1.19E+016 * E302^-5/(EXP(14380000/(E302*Tk))-1)	
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				=E305+10	=emisiv * 1.19E+016 * E306^-5/(EXP(14380000/(E306*Tk))-1)	
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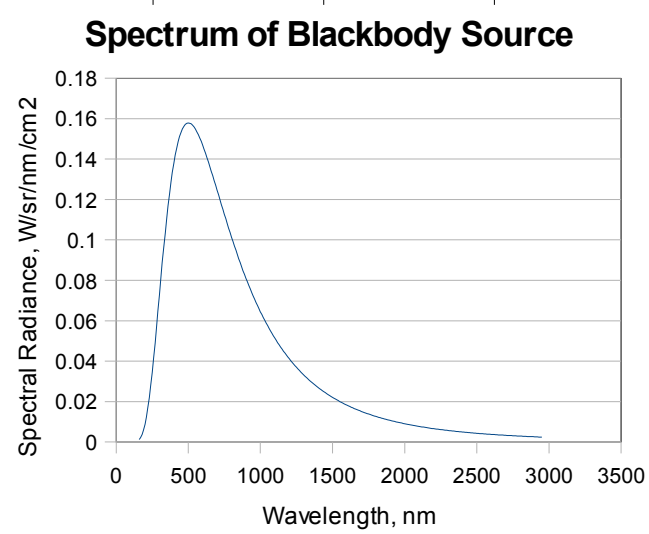
				=E307+10	=emisiv * 1.19E+016 * E308^-5/(EXP(14380000/(E308*Tk))-1)	
				=E308+10	=emisiv * 1.19E+016 * E309^-5/(EXP(14380000/(E309*Tk))-1)	
				=E309+10	=emisiv * 1.19E+016 * E310^-5/(EXP(14380000/(E310*Tk))-1)	
				=E310+10	=emisiv * 1.19E+016 * E311^-5/(EXP(14380000/(E311*Tk))-1)	
				=E311+10	=emisiv * 1.19E+016 * E312^-5/(EXP(14380000/(E312*Tk))-1)	
				=E312+10	=emisiv * 1.19E+016 * E313^-5/(EXP(14380000/(E313*Tk))-1)	
				=E313+10	=emisiv * 1.19E+016 * E314^-5/(EXP(14380000/(E314*Tk))-1)	
				=E314+10	=emisiv * 1.19E+016 * E315^-5/(EXP(14380000/(E315*Tk))-1)	
				=E315+10	=emisiv * 1.19E+016 * E316^-5/(EXP(14380000/(E316*Tk))-1)	
				=E316+10	=emisiv * 1.19E+016 * E317^-5/(EXP(14380000/(E317*Tk))-1)	

				=E317+10	=emisiv * 1.19E+016 * E318^-5/(EXP(14380000/(E318*Tk))-1)	
				=E318+10	=emisiv * 1.19E+016 * E319^-5/(EXP(14380000/(E319*Tk))-1)	
				=E319+10	=emisiv * 1.19E+016 * E320^-5/(EXP(14380000/(E320*Tk))-1)	
				=E320+10	=emisiv * 1.19E+016 * E321^-5/(EXP(14380000/(E321*Tk))-1)	
				=E321+10	=emisiv * 1.19E+016 * E322^-5/(EXP(14380000/(E322*Tk))-1)	
				=E322+10	=emisiv * 1.19E+016 * E323^-5/(EXP(14380000/(E323*Tk))-1)	
				=E323+10	=emisiv * 1.19E+016 * E324^-5/(EXP(14380000/(E324*Tk))-1)	
				=E324+10	=emisiv * 1.19E+016 * E325^-5/(EXP(14380000/(E325*Tk))-1)	
				=E325+10	=emisiv * 1.19E+016 * E326^-5/(EXP(14380000/(E326*Tk))-1)	
				=E326+10	=emisiv * 1.19E+016 * E327^-5/(EXP(14380000/(E327*Tk))-1)	
				=E327+10	=emisiv * 1.19E+016 * E328^-5/(EXP(14380000/(E328*Tk))-1)	
				=E328+10	=emisiv * 1.19E+016 * E329^-5/(EXP(14380000/(E329*Tk))-1)	
				=E329+10	=emisiv * 1.19E+016 * E330^-5/(EXP(14380000/(E330*Tk))-1)	
				=E330+10	=emisiv * 1.19E+016 * E331^-5/(EXP(14380000/(E331*Tk))-1)	
				=E331+10	=emisiv * 1.19E+016 * E332^-5/(EXP(14380000/(E332*Tk))-1)	
				=E332+10	=emisiv * 1.19E+016 * E333^-5/(EXP(14380000/(E333*Tk))-1)	
				=E333+10	=emisiv * 1.19E+016 * E334^-5/(EXP(14380000/(E334*Tk))-1)	
				=E334+10	=emisiv * 1.19E+016 * E335^-5/(EXP(14380000/(E335*Tk))-1)	
				=E335+10	=emisiv * 1.19E+016 * E336^-5/(EXP(14380000/(E336*Tk))-1)	
				=E336+10	=emisiv * 1.19E+016 * E337^-5/(EXP(14380000/(E337*Tk))-1)	
				=E337+10	=emisiv * 1.19E+016 * E338^-5/(EXP(14380000/(E338*Tk))-1)	
				=E338+10	=emisiv * 1.19E+016 * E339^-5/(EXP(14380000/(E339*Tk))-1)	
				=E339+10	=emisiv * 1.19E+016 * E340^-5/(EXP(14380000/(E340*Tk))-1)	
				=E340+10	=emisiv * 1.19E+016 * E341^-5/(EXP(14380000/(E341*Tk))-1)	
				=E341+10	=emisiv * 1.19E+016 * E342^-5/(EXP(14380000/(E342*Tk))-1)	
				=E342+10	=emisiv * 1.19E+016 * E343^-5/(EXP(14380000/(E343*Tk))-1)	
				=E343+10	=emisiv * 1.19E+016 * E344^-5/(EXP(14380000/(E344*Tk))-1)	
				=E344+10	=emisiv * 1.19E+016 * E345^-5/(EXP(14380000/(E345*Tk))-1)	
				=E345+10	=emisiv * 1.19E+016 * E346^-5/(EXP(14380000/(E346*Tk))-1)	
				=E346+10	=emisiv * 1.19E+016 * E347^-5/(EXP(14380000/(E347*Tk))-1)	
				=E347+10	=emisiv * 1.19E+016 * E348^-5/(EXP(14380000/(E348*Tk))-1)	
				=E348+10	=emisiv * 1.19E+016 * E349^-5/(EXP(14380000/(E349*Tk))-1)	
				=E349+10	=emisiv * 1.19E+016 * E350^-5/(EXP(14380000/(E350*Tk))-1)	
				=E350+10	=emisiv * 1.19E+016 * E351^-5/(EXP(14380000/(E351*Tk))-1)	
				=E351+10	=emisiv * 1.19E+016 * E352^-5/(EXP(14380000/(E352*Tk))-1)	
				=E352+10	=emisiv * 1.19E+016 * E353^-5/(EXP(14380000/(E353*Tk))-1)	


Spectrum of Blackbody Source
Spectral Radiance, W/sr/nm/cm2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02
0
0
500
1000
1500
2000
2500
3000
3500
Wavelength, nm

Constants									
Boltzman constant	1.38E-023	Joule/K							
Speed of light, c	3.00E+010	cm/sec							
Planck constant	###								

				###	=M132+10	###	=O132+10	###	=Q132+10
				###	=M133+10	###	=O133+10	###	=Q133+10
				###	=M134+10	###	=O134+10	###	=Q134+10
				###	=M135+10	###	=O135+10	###	=Q135+10
				###	=M136+10	###	=O136+10	###	=Q136+10
				###	=M137+10	###	=O137+10	###	=Q137+10
				###	=M138+10	###	=O138+10	###	=Q138+10
				###	=M139+10	###	=O139+10	###	=Q139+10
				###	=M140+10	###	=O140+10	###	=Q140+10
				###	=M141+10	###	=O141+10	###	=Q141+10
				###	=M142+10	###	=O142+10	###	=Q142+10
				###	=M143+10	###	=O143+10	###	=Q143+10
				###	=M144+10	###	=O144+10	###	=Q144+10
				###	=M145+10	###	=O145+10	###	=Q145+10
				###	=M146+10	###	=O146+10	###	=Q146+10
				###	=M147+10	###	=O147+10	###	=Q147+10
				###	=M148+10	###	=O148+10	###	=Q148+10
				###	=M149+10	###	=O149+10	###	=Q149+10

###	=S132+10
###	=S133+10
###	=S134+10
###	=S135+10
###	=S136+10
###	=S137+10
###	=S138+10
###	=S139+10
###	=S140+10
###	=S141+10
###	=S142+10
###	=S143+10
###	=S144+10
###	=S145+10
###	=S146+10
###	=S147+10
###	=S148+10
###	=S149+10