MONTHLY AVERAGE SOLAR INSOLATION CALCULATOR USING PVWATTS OUTPUT

BTU/ft2/day per kWh/m2/day 317

Enter the square feet of NET GLAZING (not gross window area) in E7, E25, E43, and E61
Enter the Glazing Solar Heat Gain Coefficient (SHGC) in cells G7, G25, G43, and G61
NOTE: these are NOT the NFRC Whole Window Values!
The dirt/off axis factor is a constant which accounts for dirt and the fact that the glazing has lower SHGC at acut

Copy the input azimuth results from PVWatts into the yellow shaded cells in Column C

Azimuth	0	ft2 of glazing	70	SHGC	0.21	dirt/off axis	0.85
Month	Insolation,	BTU/ft2/day	Days/mont	BTU/ft2/month	Fraction	BTU/month	
Jan	0.74	235	31	7,272	0.9	81,777	
Feb	1.14	361	28	10,119	0.9	113,789	
Mar	1.15	365	31	11,301	0.9	127,086	
Apr	1.41	447	30	13,409	0.9	150,792	
May	1.76	558	31	17,296	0.9	194,497	
Jun	1.88	596	30	17,879	0.9	201,056	
Jul	1.86	590	31	18,278	0.9	205,548	
Aug	1.50	476	31	14,741	0.9	165,764	
Sep	1.17	371	30	11,127	0.9	125,125	
Oct	0.86	273	31	8,451	0.9	95,038	
Nov	0.61	193	30	5,801	0.9	65,236	
Dec	0.58	184	31	5,700	0.9	64,096	

Copy the input azimuth results from PVWatts into the yellow shaded cells in Column C

Azimuth	90	ft2 of glazing	32	SHGC	0.21	dirt/off axis	0.85
Month	Insolation,	BTU/ft2/day	Days/mont	BTU/ft2/month	Fraction	BTU/month	
Jan	1.48	469	31	14,544	0.9	74,768	
Feb	2.14	678	28	18,995	0.9	97,648	
Mar	2.59	821	31	25,452	0.9	130,843	
Apr	2.96	938	30	28,150	0.9	144,711	
May	3.27	1,037	31	32,134	0.9	165,196	
Jun	3.38	1,071	30	32,144	0.9	165,245	
Jul	3.48	1,103	31	34,198	0.9	175,805	
Aug	3.07	973	31	30,169	0.9	155,092	
Sep	2.40	761	30	22,824	0.9	117,334	
Oct	2.00	634	31	19,654	0.9	101,037	
Nov	1.29	409	30	12,268	0.9	63,067	
Dec	1.15	365	31	11,301	0.9	58,096	