

HEATING VENTILATING AIR CONDITIONING GUIDE 1939

TABLE 2. SOLAR RADIATION IMPINGING AGAINST WALLS HAVING SEVERAL ORIENTATIONS, AND A HORIZONTAL SURFACE.

For 30 Deg Latitude on the twenty-first of July.

SUN TIME	INTENSITY OF SOLAR RADIATION, BTU PER SQ FT PER HOUR							
	NORTHEAST	EAST	SOUTHEAST	SOUTH	SOUTHWEST	WEST	NORTHWEST	HORIZONTAL SURFACE
4:59	0	0	0					0
5:00	1	1	0.3					0.01
6:00	47	51	24					9
7:00	136	160	90					68
8:00	151	205	136					147
9:00	127	189	140	8				214
10:00	79	141	122	31				265
11:00	21	78	85	45				296
12:00			36	50	36			305
1:00				45	85	78	21	296
2:00				31	122	141	79	265
3:00				8	140	189	127	214
4:00					136	205	151	147
5:00					90	160	136	68
6:00					24	51	47	9
7:00					0.3	1	1	0.01
7:01					0	0	0	0

TABLE 3. SOLAR RADIATION IMPINGING AGAINST WALLS HAVING SEVERAL ORIENTATIONS, AND A HORIZONTAL SURFACE.

For 35 Deg Latitude on the twenty-first of July.

SUN TIME	INTENSITY OF SOLAR RADIATION, BTU PER SQ FT PER HOUR							
	NORTHEAST	EAST	SOUTHEAST	SOUTH	SOUTHWEST	WEST	NORTHWEST	HORIZONTAL SURFACE
4:46	0	0	0					0
5:00	9	9	3					0.01
6:00	67	72	35					15
7:00	142	174	103					77
8:00	150	209	145					151
9:00	118	191	154	26				214
10:00	60	143	139	55				264
11:00	2	75	103	72				291
12:00			55	78	55			300
1:00				72	103	75	2	291
2:00				55	139	143	60	264
3:00				26	154	191	118	214
4:00					145	209	150	151
5:00					103	174	142	77
6:00					35	72	67	15
7:00					3	9	9	0.01
7:14					0	0	0	0

CHAPTER 8. COOLING LOAD

TABLE 4. SOLAR RADIATION IMPINGING AGAINST WALLS HAVING SEVERAL ORIENTATIONS, AND A HORIZONTAL SURFACE.

For 40 Deg Latitude on the twenty-first of July.

SUN TIME	INTENSITY OF SOLAR RADIATION, BTU PER SQ FT PER HOUR							
	NORTHEAST	EAST	SOUTHEAST	SOUTH	SOUTHWEST	WEST	NORTHWEST	HORIZONTAL SURFACE
4:31	0	0	0					0
5:00	14	14	5					1
6:00	72	80	40					19
7:00	143	180	112					82
8:00	143	211	155	8				152
9:00	104	192	168	46				213
10:00	46	143	156	77				258
11:00		75	121	95	15			284
12:00			73	103	73			293
1:00			15	95	121	75		284
2:00				77	156	143	46	258
3:00				46	168	192	104	213
4:00				8	155	211	143	152
5:00					112	180	143	82
6:00					40	80	72	19
7:00					5	14	14	1
7:29					0	0	0	0

TABLE 5. SOLAR RADIATION IMPINGING AGAINST WALLS HAVING SEVERAL ORIENTATIONS, AND A HORIZONTAL SURFACE.

For 45 Deg Latitude on the twenty-first of July.

SUN TIME	INTENSITY OF SOLAR RADIATION, BTU PER SQ FT PER HOUR							
	NORTHEAST	EAST	SOUTHEAST	SOUTH	SOUTHWEST	WEST	NORTHWEST	HORIZONTAL SURFACE
4:26	0	0	0					0
5:00	25	24	9					2
6:00	89	99	52					26
7:00	149	194	125					90
8:00	140	219	171	22				156
9:00	92	194	183	65				210
10:00	33	144	171	98				251
11:00		75	139	121	32			274
12:00			91	128	91			282
1:00			32	121	139	75		274
2:00				98	171	144	33	251
3:00				65	183	194	92	210
4:00				22	171	219	140	156
5:00					125	194	144	90
6:00					52	99	89	26
7:00					9	24	25	2