

Table 13 Solar Heat Gain Factors—Btu Per Square Foot—for August 21

Latitude	Sun Time ^a AM. →	N	NE	E	SE	S	SW	W	NW	Horiz	Sun Time ^a ← PM
24 Deg North	6 a.m.	—	—	—	56	31	2	2	2	8	6 p.m.
	7	12	130	173	116	9	9	9	9	54	5
	8	14	136	203	146	15	14	14	14	24	4
	9	18	104	185	148	27	18	18	18	8	3
	10	20	55	136	128	43	20	20	20	234	2
	11	22	23	65	89	54	22	22	22	264	1
12 N	23	23	23	43	59	43	23	23	23	273	12 N
32 Deg North	6 a.m.	—	—	—	74	41	3	3	3	11	6 p.m.
	7	9	126	173	124	9	9	9	9	55	5
	8	14	122	202	158	21	14	14	14	121	4
	9	18	84	184	166	46	18	18	17	179	3
	10	20	36	133	152	71	20	20	20	223	2
	11	21	21	64	115	91	25	21	21	250	1
12 N	22	22	22	44	97	64	22	22	22	259	12 N
40 Deg North	6 a.m.	—	—	—	88	51	3	3	3	13	6 p.m.
	7	9	120	174	127	9	9	9	9	55	5
	8	13	108	190	169	32	13	13	13	114	4
	9	17	65	180	183	69	17	17	17	168	3
	10	19	23	130	172	102	19	19	19	207	2
	11	20	20	62	141	126	37	20	20	231	1
12 N	21	21	21	89	134	89	21	21	21	240	12 N
48 Deg North	6 a.m.	—	—	—	79	100	59	4	4	16	6 p.m.
	7	9	113	174	129	11	9	9	9	56	5
	8	13	92	193	175	44	13	13	13	105	4
	9	16	46	175	195	91	16	16	16	152	3
	10	18	18	126	188	131	18	18	18	187	2
	11	19	19	60	155	156	19	19	19	209	1
12 N	19	19	19	111	165	111	19	19	19	216	12 N
		N	NW	W	SW	S	SE	E	NE	Horiz	← PM

* Values in bold face are for hours when sun is striking facerotation.

* Values for morning hours must be selected by reading down for the proper direction listed at the top of the columns.

* Values for afternoon hours must be selected by reading up for the proper direction listed at the bottom of the columns.

Table 14 Solar Heat Gain Factors—Btu Per Square Foot—for September 21

Latitude	Sun Time ^a AM. →	N	NE	E	SE	S	SW	W	NW	Horiz	Sun Time ^a ← PM
24 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	7	91	149	117	12	7	7	7	35	5
	8	13	101	177	172	37	13	13	13	101	4
	9	17	69	188	185	66	17	17	17	167	3
	10	20	28	136	167	91	20	20	20	216	2
	11	21	21	65	128	106	28	21	21	245	1
12 N	22	22	22	75	113	75	22	22	22	256	12 N
32 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	6	82	141	113	14	6	6	6	31	5
	8	12	85	190	175	52	12	12	12	89	4
	9	16	51	181	197	89	16	16	16	151	3
	10	19	20	132	185	119	19	19	19	197	2
	11	20	20	63	152	142	44	20	20	224	1
12 N	20	20	20	100	148	100	20	20	20	234	12 N
40 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	6	72	130	106	16	6	6	6	27	5
	8	11	72	181	175	60	11	11	11	76	4
	9	15	35	173	202	107	15	15	15	130	3
	10	17	17	128	200	144	20	17	17	172	2
	11	19	19	61	170	169	61	19	19	198	1
12 N	19	19	19	119	177	119	19	19	19	206	12 N
48 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	5	59	117	98	17	5	5	5	22	5
	8	10	59	168	170	64	10	10	10	63	4
	9	13	24	162	201	117	13	13	13	107	3
	10	16	16	122	204	161	24	16	16	144	2
	11	17	17	58	181	189	77	17	17	167	1
12 N	17	17	17	136	197	136	17	17	17	175	12 N
		N	NW	W	SW	S	SE	E	NE	Horiz	← PM

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Table 15 Solar Heat Gain Factors—Btu Per Square Foot—for October 21

Latitude	Sun Time ^a AM. →	N	NE	E	SE	S	SW	W	NW	Horiz	Sun Time ^a ← PM
24 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	7	53	106	97	26	7	6	6	16	5
	8	13	63	174	179	70	13	12	12	72	4
	9	16	37	172	203	107	17	15	15	131	3
	10	18	20	128	193	135	20	18	17	185	2
	11	19	20	64	153	153	51	20	19	217	1
12 N	19	20	21	109	160	109	21	20	20	229	12 N
32 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	5	38	84	73	22	5	4	4	10	5
	8	12	51	162	167	72	12	11	11	54	4
	9	15	25	166	202	118	16	14	13	102	3
	10	17	18	122	202	156	23	17	16	154	2
	11	17	19	61	175	180	69	19	18	188	1
12 N	18	18	19	126	186	126	19	19	18	197	12 N
40 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	3	23	55	49	15	3	3	3	5	5
	8	10	39	141	153	71	10	9	9	37	4
	9	13	18	150	194	127	14	13	12	81	3
	10	16	17	115	202	167	28	16	14	122	2
	11	16	17	57	182	194	82	16	15	151	1
12 N	16	17	19	139	202	139	19	17	17	161	12 N
48 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	2	12	22	25	7	2	1	1	2	5
	8	8	29	113	126	62	8	7	7	22	4
	9	11	14	134	181	122	13	11	10	63	3
	10	13	15	106	196	168	37	14	13	90	2
	11	14	15	53	181	195	90	16	14	109	1
12 N	14	15	17	143	205	143	17	15	15	115	12 N
		N	NW	W	SW	S	SE	E	NE	Horiz	← PM

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Table 16 Solar Heat Gain Factors—Btu Per Square Foot—for November 21

Latitude	Sun Time ^a AM. →	N	NE	E	SE	S	SW	W	NW	Horiz	Sun Time ^a ← PM
24 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	3	18	49	51	21	3	3	3	5	5
	8	11	34	147	169	86	11	10	10	47	4
	9	14	18	153	203	133	16	14	13	100	3
	10	16	18	114	201	162	28	17	16	147	2
	11	17	19	57	175	182	74	19	17	183	1
12 N	18	18	20	131	189	131	20	18	18	193	12 N
32 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	1	4	13	13	6	1	1	1	1	5
	8	8	23	115	137	75	9	8	7	27	4
	9	12	14	138	193	134	14	12	11	73	3
	10	15	16	106	200	172	37	15	14	113	2
	11	16	17	53	182	197	89	17	16	139	1
12 N	16	17	18	141	202	141	18	17	17	148	12 N
40 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	—	—	—	—	—	—	—	—	—	5
	8	6	14	83	99	56	6	6	5	13	4
	9	10	12	116	173	124	12	10	10	46	3
	10	13	14	95	188	169	41	13	12	79	2
	11	14	15	48	178	196	93	15	14	101	1
12 N	14	15	16	143	205	143	16	15	15	110	12 N
48 Deg North	6 a.m.	—	—	—	—	—	—	—	—	—	6 p.m.
	7	—	—	—	—	—	—	—	—	—	5
	8	3	8	45	54	31	3	3	3	4	4
	9	8	9	88	131	95	10	8	7	22	3
	10	10	11	81	166	151	39	11	10	47	2
	11	11	13	41	164	183	90	13	12	67	1
12 N	11	12	14	135	191	135	14	12	12	74	12 N
		N	NW	W	SW	S	SE	E	NE	Horiz	← PM

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