

TABLE 13—SOLAR HEAT GAIN THRU ORDINARY GLASS

0°

Btu/(hr) (sq ft sash area)

0°

0° NORTH LATITUDE		SUN TIME														0° SOUTH LATITUDE	
Time of Year	Exposure	6	7	8	9	10	11	Noon	1	2	3	4	5	6	Exposure	Time of Year	
JUNE 21	North	0	45	65	74	78	80	82	80	78	74	65	45	0	South	DEC 22	
	Northeast	0	119	156	154	133	95	53	20	14	13	11	6	0	Southeast		
	East	0	116	147	135	93	43	14	14	14	13	11	6	0	East		
	Southeast	0	37	42	27	15	14	14	14	14	13	11	6	0	Northeast		
	South	0	6	11	13	14	14	14	14	14	13	11	6	0	North		
	Southwest	0	6	11	13	14	14	14	14	15	27	42	37	0	Northwest		
	West	0	6	11	13	14	14	14	43	93	135	147	116	0	West		
JULY 23 & MAY 21	Northeast	0	6	11	13	14	20	53	95	133	154	156	119	0	Southwest	JAN 21 & NOV 21	
	East	0	28	87	147	191	217	226	217	191	147	87	28	0	Horizontal		
	Southeast	0	37	54	61	65	66	67	66	65	61	54	37	0	South		
	South	0	118	153	150	124	86	43	16	14	13	11	6	0	Southeast		
	Southwest	0	121	152	139	96	43	14	14	14	13	11	6	0	East		
	West	0	46	52	36	18	14	14	14	14	13	11	6	0	Northeast		
	Horizontal	0	6	11	13	14	14	14	14	14	18	36	52	46	0		North
AUG 24 & APR 20	Northeast	0	6	11	13	14	14	14	43	96	139	152	121	0	Northwest	FEB 20 & OCT 23	
	East	0	6	11	13	14	16	43	86	124	150	153	118	0	West		
	Southeast	0	29	91	151	195	223	233	223	195	151	91	29	0	Southwest		
	South	0	17	28	31	33	34	34	34	33	31	28	17	0	Horizontal		
	Southwest	0	110	141	133	102	61	24	14	14	13	12	6	0	South		
	West	0	129	163	148	103	46	14	14	14	13	12	6	0	Southeast		
	Horizontal	0	67	79	65	35	15	14	14	14	13	12	6	0	East		
SEPT 22 & MAR 22	Northeast	0	6	12	13	14	14	14	14	14	13	12	6	0	Northeast	MAR 22 & SEPT 22	
	East	0	95	118	101	68	31	14	14	14	13	12	6	0	North		
	Southeast	0	134	167	151	107	47	14	14	14	13	12	6	0	Northwest		
	South	0	95	118	101	68	31	14	14	14	13	12	6	0	West		
	Southwest	0	6	12	13	14	14	14	31	68	101	118	95	0	Southwest		
	West	0	6	12	13	14	14	14	47	107	151	167	134	0	Horizontal		
	Horizontal	0	6	12	13	14	14	14	31	68	101	118	95	0	South		
OCT 23 & FEB 20	Northeast	0	32	100	163	210	240	250	240	210	163	100	32	0	Southeast	APR 20 & AUG 24	
	East	0	6	12	13	14	14	14	14	14	13	12	6	0	East		
	Southeast	0	67	79	65	35	15	14	14	14	13	12	6	0	North		
	South	0	129	163	148	103	46	14	14	14	13	12	6	0	Northwest		
	Southwest	0	110	141	133	102	61	24	14	14	13	12	6	0	West		
	West	0	17	28	31	33	34	34	34	33	31	28	17	0	Southwest		
	Horizontal	0	6	12	13	14	14	14	15	35	65	79	67	0	Horizontal		
NOV 21 & JAN 21	Northeast	0	31	97	150	206	234	245	234	206	150	97	31	0	South	MAY 21 & JULY 23	
	East	0	6	11	13	14	14	14	14	14	13	11	6	0	Southeast		
	Southeast	0	46	52	36	18	14	14	14	14	13	11	6	0	East		
	South	0	121	152	139	96	43	14	14	14	13	11	6	0	Northeast		
	Southwest	0	118	153	150	124	86	43	16	14	13	11	6	0	North		
	West	0	37	54	61	65	66	67	66	65	61	54	37	0	Northwest		
	Horizontal	0	6	11	13	14	14	14	14	18	36	52	46	0	West		
DEC 22	Northeast	0	29	91	151	195	223	233	223	195	151	91	29	0	Southwest	JUNE 21	
	East	0	6	11	13	14	14	14	14	14	13	11	6	0	Horizontal		
	Southeast	0	6	11	13	14	14	14	14	14	13	11	6	0	South		
	South	0	119	156	154	133	95	53	20	14	13	11	6	0	Southeast		
	Southwest	0	45	65	74	78	80	82	80	78	74	65	45	0	East		
	West	0	6	11	13	14	20	53	95	133	154	156	119	0	Northeast		
	Horizontal	0	6	11	13	14	14	14	14	15	27	42	37	0	North		
Solar Gain Correction	Steel Sash, or No Sash × 1/.85 or 1.17	Haze —15% (Max.)				Altitude +0.7% per 1000 Ft				Dewpoint Decrease From 67 F + 7% per 10 F				Dewpoint Increase From 67 F — 7% per 10 F		South Lat. Dec. or Jan. + 7%	

Bold Face Values — Monthly Maximums

Boxed Values — Yearly maximums

TABLE 15—SOLAR HEAT GAIN THRU ORDINARY GLASS (Contd)

10°

Btu/(hr) (sq ft sash area)

10°

10° NORTH LATITUDE		SUN TIME														10° SOUTH LATITUDE	
Time of Year	Exposure	6	7	8	9	10	11	Noon	1	2	3	4	5	6	Exposure	Time of Year	
JUNE 21	North	19	44	50	45	44	43	41	43	44	45	50	44	2	South	DEC 22	
	Northeast	55	131	153	140	106	65	28	14	14	13	11	8	2	Southeast		
	East	54	134	155	139	98	41	14	14	14	13	11	8	2	East		
	Southeast	18	49	55	43	25	14	14	14	14	13	11	8	2	Northeast		
	South	2	8	11	13	14	14	14	14	14	13	11	8	2	North		
JULY 23 & MAY 21	Southwest	2	8	8	13	14	14	14	14	25	43	55	49	18	Northwest	JAN 21 & NOV 21	
	West	2	8	8	13	14	14	14	41	98	139	155	134	54	West		
	Northwest	2	8	8	13	14	18	28	65	106	140	153	131	55	Southwest		
	Horizontal	4	44	107	166	205	233	243	233	205	166	107	44	4	Horizontal		
	North	5	34	39	35	33	31	30	31	33	35	39	34	5	South		
AUG 24 & APR 20	Northeast	42	127	148	133	109	56	22	14	14	13	11	7	1	Southeast	FEB 20 & OCT 23	
	East	50	135	158	142	98	43	14	14	14	13	11	7	1	East		
	Southeast	26	57	66	56	32	14	14	14	14	13	11	7	1	Northeast		
	South	1	7	11	13	14	14	14	14	14	13	11	7	1	North		
	Southwest	1	7	11	13	14	14	14	14	32	56	66	57	26	Northwest		
SEPT 22 & MAR 22	West	1	7	11	13	14	14	14	43	98	142	158	135	50	West	MAR 22 & SEPT 22	
	Northwest	1	7	11	13	14	14	22	56	109	133	148	127	42	Southwest		
	Horizontal	3	42	107	166	210	236	247	236	210	166	107	42	3	Horizontal		
	North	1	15	16	15	15	14	14	14	15	15	16	15	1	South		
	Northeast	17	113	130	111	80	34	14	14	14	13	11	7	1	Southeast		
OCT 23 & FEB 20	East	25	138	163	149	104	46	14	14	14	13	11	7	1	East	APR 20 & AUG 24	
	Southeast	18	79	94	85	60	27	14	14	14	13	11	7	1	Northeast		
	South	1	7	11	13	14	14	14	14	14	13	11	7	1	North		
	Southwest	1	7	11	13	14	14	14	27	60	85	94	79	18	Northwest		
	West	1	7	11	13	14	14	14	46	80	149	163	138	25	West		
NOV 21 & JAN 21	Northwest	1	7	11	13	14	14	14	34	15	111	130	113	17	Southwest	MAY 21 & JULY 23	
	Horizontal	2	38	105	167	213	242	250	242	213	167	105	38	2	Horizontal		
	North	1	6	11	13	14	14	14	14	14	13	11	6	1	South		
	Northeast	1	89	103	80	45	17	14	14	14	13	11	6	1	Southeast		
	East	1	130	164	151	106	47	14	14	14	13	11	6	1	East		
DEC 22	Southeast	1	97	127	122	94	56	21	14	14	13	11	6	1	Northeast	JUNE 21	
	South	1	6	13	19	24	27	28	27	24	19	13	6	1	North		
	Southwest	1	6	11	13	14	14	21	56	94	122	127	97	1	Northwest		
	West	1	6	11	13	14	14	14	47	106	151	164	130	1	West		
	Northwest	1	6	11	13	14	14	14	17	45	80	103	89	1	Southwest		
OCT 23 & FEB 20	Horizontal	1	31	97	160	207	235	247	235	207	160	97	31	1	Horizontal	APR 20 & AUG 24	
	North	0	5	10	13	14	14	14	14	14	13	10	5	0	South		
	Northeast	0	58	66	44	28	14	14	14	14	13	10	5	0	Southeast		
	East	0	118	155	145	100	40	14	14	14	13	10	5	0	East		
	Southeast	0	103	147	149	123	81	46	18	14	13	10	5	0	Northeast		
NOV 21 & JAN 21	South	0	18	40	55	65	71	73	71	65	55	40	18	0	North	MAY 21 & JULY 23	
	Southwest	0	5	10	13	14	18	46	81	123	149	147	103	0	Northwest		
	West	0	5	10	13	14	14	14	40	100	145	155	118	0	West		
	Northwest	0	5	10	13	14	14	14	14	28	44	66	58	0	Southwest		
	Horizontal	0	22	85	139	193	220	230	220	193	139	85	22	0	Horizontal		
DEC 22	North	0	4	9	12	13	14	14	14	13	12	9	4	0	South	JUNE 21	
	Northeast	0	27	37	17	13	14	14	14	13	12	9	4	0	Southeast		
	East	0	99	143	132	93	39	14	14	13	12	9	4	0	East		
	Southeast	0	99	153	161	146	109	70	31	17	12	9	4	0	Northeast		
	South	0	35	65	91	96	104	106	104	96	91	65	35	0	North		
NOV 21 & JAN 21	Southwest	0	4	9	12	17	31	70	109	146	161	153	99	0	Northwest	JULY 23	
	West	0	4	9	12	13	14	14	39	93	132	143	99	0	West		
	Northwest	0	4	9	12	13	14	14	14	13	17	37	27	0	Southwest		
	Horizontal	0	17	62	131	175	202	210	202	175	131	62	17	0	Horizontal		
	North	0	4	9	12	13	14	14	14	13	12	9	4	0	South		
DEC 22	Northeast	0	15	28	17	13	14	14	14	13	12	9	4	0	Southeast	JUNE 21	
	East	0	86	137	130	91	42	14	14	13	12	9	4	0	East		
	Southeast	0	99	154	163	149	121	79	36	23	12	9	4	0	Northeast		
	South	0	50	74	94	109	116	120	116	109	94	74	50	0	North		
	Southwest	0	4	9	12	23	36	79	121	149	163	154	99	0	Northwest		
DEC 22	West	0	4	9	12	13	14	14	42	91	130	137	86	0	West	JUNE 21	
	Northwest	0	4	9	12	13	14	14	14	13	17	28	15	0	Southwest		
	Horizontal	0	14	66	120	167	193	202	193	167	120	66	14	0	Horizontal		
	North	0	4	9	12	13	14	14	14	13	12	9	4	0	South		
	Northeast	0	15	28	17	13	14	14	14	13	12	9	4	0	Southeast		
DEC 22	East	0	86	137	130	91	42	14	14	13	12	9	4	0	East	JUNE 21	
	Southeast	0	99	154	163	149	121	79	36	23	12	9	4	0	Northeast		
	South	0	50	74	94	109	116	120	116	109	94	74	50	0	North		
	Southwest	0	4	9	12	23	36	79	121	149	163	154	99	0	Northwest		
	West	0	4	9	12	13	14	14	42	91	130	137	86	0	West		
DEC 22	Northwest	0	4	9	12	13	14	14	14	13	17	28	15	0	Southwest	JUNE 21	
	Horizontal	0	14	66	120	167	193	202	193	167	120	66	14	0	Horizontal		
	North	0	4	9	12	13	14	14	14	13	12	9	4	0	South		
	Northeast	0	15	28	17	13	14	14	14	13	12	9	4	0	Southeast		
	East	0	86	137	130	91	42	14	14	13	12	9	4	0	East		
DEC 22	Southeast	0	99	154	163	149	121	79	36	23	12	9	4	0	Northeast	JUNE 21	
	South	0	50	74	94	109	116	120	116	109	94	74	50	0	North		
	Southwest	0	4	9	12	23	36	79	121	149	163	154	99	0	Northwest		
	West	0	4	9	12	13	14	14	42	91	130	137	86	0	West		
	Northwest	0	4	9	12	13	14	14	14	13	17	28	15	0	Southwest		
DEC 22	Horizontal	0	14	66	120	167	193	202	193	167	120	66	14	0	Horizontal	JUNE 21	
	North	0	4	9	12	13	14	14	14	13	12	9	4	0	South		
	Northeast	0	15	28	17	13	14	14	14	13	12	9	4	0	Southeast		
	East	0	86	137	130	91	42	14	14	13	12	9	4	0	East		
	Southeast	0	99	154	163	149	121	79	36	23	12	9	4	0	Northeast		
DEC 22	South	0	50	74	94	109	116	120	116	109	94	74	50	0	North	JUNE 21	
	Southwest	0	4	9	12	23	36	79	121	149	163	154	99	0	Northwest		

Solar Gain Correction	Steel Sash, or No Sash	Haze — 15% (Max.)	Altitude + 0.7% per 1000 Ft	Dewpoint Decrease From 67 F + 7% per 10 F	Dewpoint Increase From 67 F — 7% per 10 F	South Lat. Dec. or Jan. + 7%
	× 1/.85 or 1.17					

TABLE 15—SOLAR HEAT GAIN THRU ORDINARY GLASS (Contd)

20°

Btu/(hr) (sq ft sash area)

20°

20° NORTH LATITUDE		SUN TIME														20° SOUTH LATITUDE	
Time of Year	Exposure	6	7	8	9	10	11	Noon	1	2	3	4	5	6	Exposure	Time of Year	
JUNE 21	North	28	41	33	25	19	17	15	17	19	25	33	41	28	South	DEC 22	
	Northeast	81	154	144	122	83	38	15	14	14	14	12	9	3	Southeast		
	East	81	148	160	143	96	41	14	14	14	14	12	9	3	East		
	Southeast	28	62	73	66	44	21	14	14	14	14	12	9	3	Northeast		
	South	3	9	12	14	14	14	14	14	14	14	12	9	3	North		
JULY 23	Southwest	3	9	12	14	14	14	14	21	44	66	73	62	28	Northwest	JAN 21	
	West	3	9	12	14	14	14	14	41	96	143	160	148	81	West		
	Northwest	3	9	12	14	14	14	15	38	83	122	144	154	81	Southwest		
	Horizontal	11	60	121	176	216	232	250	232	216	176	121	60	11	Horizontal		& NOV 21
	North	20	28	23	17	15	14	14	14	15	17	23	28	20	South		
Northeast	71	132	138	111	73	31	14	14	14	13	12	8	3	Southeast			
East	75	148	163	145	99	46	14	14	14	13	12	8	3	East			
MAY 21	Southeast	31	70	85	79	57	29	14	14	14	13	12	8	3	Northeast	OCT 23	
	South	3	8	12	13	14	14	14	14	14	13	12	8	3	North		
	Southwest	3	8	12	13	14	14	14	29	57	79	85	70	31	Northwest		
	West	3	8	12	13	14	14	14	46	99	145	163	148	75	West		
	Northwest	3	8	12	13	14	14	14	31	73	111	138	132	71	Southwest		
AUG 24	Horizontal	8	55	118	175	216	240	251	240	216	175	118	55	8	Horizontal	FEB 20	
	North	6	10	11	13	14	14	14	14	14	13	11	10	6	South		
	Northeast	45	111	118	89	50	18	14	14	14	13	11	7	2	Southeast		
	East	53	142	165	149	106	51	14	14	14	13	11	7	2	East		
	Southeast	29	89	113	108	98	55	20	14	14	13	11	7	2	Northeast		
APR 20	South	2	7	11	14	20	24	26	24	20	14	11	7	2	North	OCT 23	
	Southwest	2	7	11	13	14	14	20	55	98	108	113	89	29	Northwest		
	West	2	7	11	13	14	14	14	51	106	149	165	142	53	West		
	Northwest	2	7	11	13	14	14	14	18	50	89	118	111	45	Southwest		
	Horizontal	5	48	107	167	210	235	247	235	210	167	107	48	5	Horizontal		
SEPT 22	North	0	6	11	13	14	14	14	14	14	13	11	6	0	South	MAR 22	
	Northeast	0	83	87	59	22	14	14	14	14	13	11	6	0	Southeast		
	East	0	130	163	149	104	45	14	14	14	13	11	6	0	East		
	Southeast	0	99	136	140	120	84	41	15	14	13	11	6	0	Northeast		
	South	0	8	22	38	52	63	65	63	52	38	22	8	0	North		
MAR 22	Southwest	0	6	11	13	14	15	41	84	120	140	136	99	0	Northwest	SEPT 22	
	West	0	6	11	13	14	14	14	45	104	149	163	130	0	West		
	Northwest	0	6	11	13	14	14	14	22	59	87	83	0	Southwest			
	Horizontal	0	30	93	153	198	225	233	225	198	153	93	30	0	Horizontal		
	North	0	4	9	12	13	14	14	14	13	12	9	4	0	South		APR 20
Northeast	0	44	52	29	13	14	14	14	13	12	9	4	0	Southeast			
East	0	99	147	141	100	49	14	14	13	12	9	4	0	East			
Southeast	0	91	146	160	149	119	74	27	13	12	9	4	0	Northeast			
South	0	21	50	76	93	106	111	106	93	76	50	21	0	North	AUG 24		
Southwest	0	4	9	12	13	27	74	119	149	160	146	91	0	Northwest			
West	0	4	9	12	13	14	14	49	100	141	147	99	0	West			
Northwest	0	4	9	12	13	14	14	14	13	29	52	44	0	Southwest			
Horizontal	0	18	68	127	171	196	208	196	171	127	68	18	0	Horizontal			
NOV 21	North	0	3	8	11	13	13	13	13	13	11	8	3	0	South	MAY 21	
	Northeast	0	24	26	14	13	13	13	13	13	11	8	3	0	Southeast		
	East	0	71	128	127	91	43	13	13	13	11	8	3	0	East		
	Southeast	0	73	144	164	158	135	91	46	16	11	8	3	0	Northeast		
	South	0	28	69	100	123	136	141	136	123	100	69	28	0	North		
JAN 21	Southwest	0	3	8	11	16	46	91	135	158	164	144	73	0	Northwest	JULY 23	
	West	0	3	8	11	12	13	13	43	91	127	128	71	0	West		
	Northwest	0	3	8	11	12	13	13	13	13	14	26	24	0	Southwest		
	Horizontal	0	5	48	101	146	172	180	172	146	101	48	5	0	Horizontal		
	North	0	2	7	11	12	13	13	13	12	11	7	2	0	South		JUNE 21
Northeast	0	14	18	12	12	13	13	13	12	11	7	2	0	Southeast			
East	0	56	118	121	85	34	13	13	12	11	7	2	0	East			
Southeast	0	59	139	167	159	134	97	60	20	11	7	2	0	Northeast			
South	0	25	74	111	132	146	149	146	132	111	74	25	0	North			
DEC 22	Southwest	0	2	7	11	20	60	97	134	159	167	139	59	0	Northwest	JUNE 21	
	West	0	2	7	11	12	13	13	34	85	121	118	56	0	West		
	Northwest	0	2	7	11	12	13	13	13	12	12	18	14	0	Southwest		
	Horizontal	0	4	36	92	135	161	170	161	135	92	36	4	0	Horizontal		
	North	0	2	7	11	12	13	13	13	12	12	18	14	0	Southwest		
Solar Gain Correction	Steel Sash, or No Sash	Haze		Altitude		Dewpoint		Dewpoint		South Lat.							
	× 1/.85 or 1.17	- 15% (Max.)		+ 0.7% per 1000 Ft		Decrease From 67 F + 7% per 10 F		Increase From 67 F - 7% per 10 F		Dec. or Jan. + 7%							

TABLE 15—SOLAR HEAT GAIN THRU ORDINARY GLASS (Contd)

30°

Btu/(hr) (sq ft sash area)

30°

30° NORTH LATITUDE		AM			SUN TIME										PM			30° SOUTH LATITUDE	
Time of Year	Exposure	6	7	8	9	10	11	Noon	1	2	3	4	5	6	Exposure	Time of Year			
JUNE 21	North	33	29	18	14	14	14	14	14	14	14	18	29	33	South	DEC 22			
	Northeast	105	139	130	97	55	19	14	14	14	14	12	10	5	Southeast				
	East	108	156	161	143	98	44	14	14	14	14	12	10	5	East				
	Southeast	42	75	90	90	73	44	17	14	14	14	12	10	5	Northeast				
	South	5	10	12	14	15	19	21	19	15	14	12	10	5	North				
	Southwest	5	10	12	14	14	14	17	44	73	90	90	75	42	Northwest				
JULY 23 & MAY 21	West	5	10	12	14	14	14	14	44	98	143	161	156	108	West	JAN 21 & NOV 21			
	Northwest	5	10	12	14	14	14	14	19	55	97	130	139	105	Southwest				
	Horizontal	19	61	131	180	217	240	250	240	217	180	131	61	19	Horizontal				
	North	22	20	14	13	14	14	14	14	13	14	20	22	South					
	Northeast	93	131	123	89	46	16	14	14	14	13	12	9	4	Southeast				
	East	100	155	164	145	99	44	14	14	14	13	12	9	4	East				
AUG 24 & APR 20	Southeast	42	82	100	100	83	53	22	14	14	13	12	9	4	Northeast	FEB 20 & OCT 23			
	South	4	9	12	14	20	27	30	27	20	14	12	9	4	North				
	Southwest	4	9	12	13	14	14	14	53	83	100	100	82	42	Northwest				
	West	4	9	12	13	14	14	14	44	99	145	164	155	100	West				
	Northwest	4	9	12	13	14	14	14	16	46	89	123	131	93	Southwest				
	Horizontal	15	66	123	176	214	236	246	236	214	176	123	66	15	Horizontal				
SEPT 22 & MAR 22	North	6	8	11	13	13	14	14	14	13	13	11	8	6	South	MAR 22 & SEPT 22			
	Northeast	55	108	100	66	27	14	14	14	13	13	11	8	2	Southeast				
	East	66	147	165	148	102	46	14	14	13	13	11	8	2	East				
	Southeast	37	98	127	129	112	82	39	15	13	13	11	8	2	Northeast				
	South	2	8	13	27	47	58	63	58	47	27	13	8	2	North				
	Southwest	2	8	11	13	13	15	39	82	112	129	127	98	37	Northwest				
OCT 23 & FEB 20	West	2	8	11	13	13	14	14	46	102	148	165	147	66	West	APR 20 & AUG 24			
	Northwest	2	8	11	13	13	14	14	14	27	66	100	108	55	Southwest				
	Horizontal	6	47	107	161	200	225	235	225	200	161	107	47	6	Horizontal				
	North	0	5	10	12	13	14	14	14	13	12	10	5	0	South				
	Northeast	0	74	90	40	15	14	14	14	13	12	10	5	0	Southeast				
	East	0	124	158	144	103	48	14	14	13	12	10	5	0	East				
NOV 21 & JAN 21	Southeast	0	98	131	152	141	113	67	25	13	12	10	5	0	Northeast	MAY 21 & JULY 23			
	South	0	9	18	60	82	98	105	98	82	60	18	9	0	North				
	Southwest	0	5	10	12	13	25	67	113	141	152	131	98	0	Northwest				
	West	0	5	10	12	13	14	14	48	103	144	158	124	0	West				
	Northwest	0	5	10	12	13	14	14	14	15	40	90	74	0	Southwest				
	Horizontal	0	25	81	135	179	202	212	202	179	135	81	25	0	Horizontal				
DEC 22	North	0	3	8	11	12	13	14	13	12	11	8	3	0	South	JUNE 21			
	Northeast	0	33	39	18	12	13	14	13	12	11	8	3	0	Southeast				
	East	0	79	135	132	94	43	14	13	12	11	8	3	0	East				
	Southeast	0	73	142	163	159	136	92	47	15	11	8	3	0	Northeast				
	South	0	18	57	92	121	139	145	139	121	92	57	18	0	North				
	Southwest	0	3	8	11	15	47	92	136	159	163	142	73	0	Northwest				
JAN 21	West	0	3	8	11	12	13	14	43	94	132	135	79	0	West	JULY 23			
	Northwest	0	3	8	11	12	13	14	13	12	11	8	3	0	Southwest				
	Horizontal	0	6	49	100	143	171	179	171	143	100	49	6	0	Horizontal				
	North	0	1	6	9	11	12	12	12	11	9	6	1	0	South				
	Northeast	0	8	16	9	11	12	12	12	11	9	6	1	0	Southeast				
	East	0	27	109	116	83	35	12	12	11	9	6	1	0	East				
FEB 20	Southeast	0	28	127	161	162	143	104	64	23	9	6	1	0	Northeast	JUNE 21			
	South	0	10	68	109	137	154	159	154	137	109	68	10	0	North				
	Southwest	0	1	6	9	23	64	104	143	162	161	127	28	0	Northwest				
	West	0	1	6	9	11	12	12	35	83	116	109	27	0	West				
	Northwest	0	1	6	9	11	12	12	12	11	9	16	8	0	Southwest				
	Horizontal	0	2	27	71	109	136	145	136	109	71	27	2	0	Horizontal				
MAY 21	North	0	0	4	9	11	12	12	12	11	9	4	0	0	South	JUNE 21			
	Northeast	0	0	10	9	11	12	12	12	11	9	4	0	0	Southeast				
	East	0	0	92	105	80	32	12	12	11	9	4	0	0	East				
	Southeast	0	0	114	157	162	143	108	72	28	9	4	0	0	Northeast				
	South	0	0	64	113	142	159	163	159	142	113	64	0	0	North				
	Southwest	0	0	4	9	28	72	108	143	162	157	114	0	0	Northwest				
JUNE 21	West	0	0	4	9	11	12	12	32	80	105	92	0	0	West	JUNE 21			
	Northwest	0	0	4	9	11	12	12	12	11	9	10	0	0	Southwest				
	Horizontal	0	0	19	60	97	122	131	122	97	60	19	0	0	Horizontal				
	North	0	0	4	9	11	12	12	12	11	9	4	0	0	South				
	Northeast	0	0	10	9	11	12	12	12	11	9	4	0	0	Southeast				
	East	0	0	92	105	80	32	12	12	11	9	4	0	0	East				
JULY 23	Southeast	0	0	114	157	162	143	108	72	28	9	4	0	0	Northeast	JUNE 21			
	South	0	0	64	113	142	159	163	159	142	113	64	0	0	North				
	Southwest	0	0	4	9	28	72	108	143	162	157	114	0	0	Northwest				
	West	0	0	4	9	11	12	12	32	80	105	92	0	0	West				
	Northwest	0	0	4	9	11	12	12	12	11	9	10	0	0	Southwest				
	Horizontal	0	0	19	60	97	122	131	122	97	60	19	0	0	Horizontal				
Solar Gain Correction	Steel Sash, or No Sash × 1/.85 or 1.17	Haze — 15% (Max.)			Altitude + 0.7% per 1000 Ft			Dewpoint Decrease From 67 F + 7% per 10 F			Dewpoint Increase From 67 F — 7% per 10 F			South Lat. Dec. or Jan. + 7%					

Bold Face Values — Monthly Maximums

Boxed Values — Yearly maximums

TABLE 15—SOLAR HEAT GAIN THRU ORDINARY GLASS (Contd)

40°

Btu/(hr) (sq ft sash area)

40°

40° NORTH LATITUDE		AM		SUN TIME												PM		40° SOUTH LATITUDE			
Time of Year	Exposure	6	7	8	9	10	11	Noon	1	2	3	4	5	6	Exposure	Time of Year					
JUNE 21	North	32	20	12	13	14	14	14	14	14	13	12	20	32	South	DEC 22					
	Northeast	118	133	112	73	30	14	14	14	14	13	12	10	6	Southeast						
	East	126	161	162	142	95	44	14	14	14	13	12	10	6	East						
	Southeast	51	88	109	111	99	71	34	14	14	13	12	10	6	Northeast						
	South	6	10	12	19	35	44	54	44	35	19	12	10	6	North						
	Southwest	6	10	12	13	14	14	34	71	99	111	109	88	51	Northwest						
JULY 23	West	6	10	12	13	14	14	14	44	95	142	162	161	126	West	JAN 21					
	Northwest	6	10	12	13	14	14	14	14	30	73	112	133	118	Southwest						
	Horizontal	31	82	134	179	210	232	237	232	210	179	134	82	31	Horizontal						
	North	24	14	12	13	14	14	14	14	14	13	12	14	24	South		NOV 21				
	Northeast	106	127	105	66	26	14	14	14	14	13	12	10	5	Southeast						
	East	118	161	164	144	98	43	14	14	14	13	12	10	5	East						
MAY 21	Southeast	54	96	119	125	110	82	42	15	14	13	12	10	5	Northeast	&					
	South	5	10	13	26	44	63	69	63	44	26	13	10	5	North			NOV 21			
	Southwest	5	10	12	13	14	15	42	62	110	125	119	96	54	Northwest						
AUG 24	West	5	10	12	13	14	14	14	43	98	144	164	161	118	West	FEB 20					
	Northwest	5	10	12	13	14	14	14	14	26	66	105	127	106	Southwest						
	Horizontal	24	73	126	171	203	225	233	225	203	171	126	73	24	Horizontal						
	APR 20	North	7	8	11	13	14	14	14	14	14	13	11	8	7		South	&			
		Northeast	68	102	82	46	16	14	14	14	14	13	11	8	3		Southeast		OCT 23		
		East	84	147	162	145	101	45	14	14	14	13	11	8	3		East				
SEPT 22	Southeast	48	105	138	146	139	107	66	25	14	13	11	8	3	Northeast	MAR 22					
	South	3	8	24	51	89	97	102	97	89	51	24	8	3	North		&				
	Southwest	3	8	11	13	14	25	66	107	139	146	138	105	48	Northwest			SEPT 22			
	MAR 22	West	3	8	11	13	14	14	14	45	101	145	162	147	84				West	APR 20	
		Northwest	3	8	11	13	14	14	14	14	16	46	82	102	68				Southwest		AUG 24
		Horizontal	9	47	100	150	185	205	214	205	185	150	100	47	9				Horizontal		
OCT 23	North	0	5	9	12	13	13	14	13	13	12	9	5	0	South	APR 20					
	Northeast	0	51	58	26	13	13	14	13	13	12	9	5	0	Southeast		&				
	East	0	116	149	139	99	45	14	13	13	12	9	5	0	East			AUG 24			
	FEB 20	Southeast	0	95	144	162	157	133	90	41	14	12	9	5	0				Northeast	MAY 21	
		South	0	12	44	81	110	122	140	122	110	81	44	12	0				North		&
		Southwest	0	5	9	12	14	41	90	133	157	162	144	95	0				Northwest		
NOV 21	West	0	5	9	12	13	13	14	45	99	139	149	116	0	West	MAY 21					
	Northwest	0	5	9	12	13	13	14	13	13	26	58	51	0	Southwest		&				
	Horizontal	0	21	67	124	153	176	183	176	153	124	67	21	0	Horizontal			JULY 23			
	JAN 21	North	0	2	6	10	11	12	12	12	11	10	6	2	0				South	JUNE 21	
		Northeast	0	35	33	12	11	12	12	12	11	10	6	2	0				Southeast		JUNE 21
		East	0	85	117	122	88	39	12	12	11	10	6	2	0				East		
DEC 22	Southeast	0	81	132	161	163	144	107	63	20	10	6	2	0	Northeast	JUNE 21					
	South	0	21	59	104	137	154	162	154	137	104	59	21	0	North		JUNE 21				
	Southwest	0	2	6	10	20	63	107	144	163	161	132	81	0	Northwest			JUNE 21			
	FEB 20	West	0	2	6	10	11	12	12	39	88	122	117	85	0				West	JUNE 21	
		Northwest	0	2	6	10	11	12	12	12	11	12	33	35	0				Southwest		JUNE 21
		Horizontal	0	8	29	64	101	123	129	123	101	64	29	8	0				Horizontal		
NOV 21	North	0	0	3	7	9	10	11	10	9	7	3	0	0	South	JUNE 21					
	Northeast	0	0	12	7	9	10	11	10	9	7	3	0	0	Southeast		JUNE 21				
	East	0	0	91	100	74	33	11	10	9	7	3	0	0	East			JUNE 21			
	JAN 21	Southeast	0	0	109	144	156	144	116	70	27	7	3	0	0				Northeast	JUNE 21	
		South	0	0	59	104	139	158	166	158	139	104	59	0	0				North		JUNE 21
		Southwest	0	0	3	7	27	70	116	144	156	144	109	0	0				Northwest		
DEC 22	West	0	0	3	7	9	10	11	33	74	100	91	0	0	West	JUNE 21					
	Northwest	0	0	3	7	9	10	11	10	9	7	12	0	0	Southwest		JUNE 21				
	Horizontal	0	0	16	43	73	92	103	92	73	43	16	0	0	Horizontal			JUNE 21			
	JAN 21	North	0	0	2	6	9	10	10	10	9	6	2	0	0				South	JUNE 21	
		Northeast	0	0	7	6	9	10	10	10	9	6	2	0	0				Southeast		JUNE 21
		East	0	0	72	86	68	31	10	10	9	6	2	0	0				East		
DEC 22	Southeast	0	0	88	134	148	142	115	73	30	7	2	0	0	Northeast	JUNE 21					
	South	0	0	51	99	134	158	165	158	134	99	51	0	0	North		JUNE 21				
	Southwest	0	0	2	7	30	73	115	142	148	134	88	0	0	Northwest			JUNE 21			
	JAN 21	West	0	0	2	6	9	10	10	31	68	86	72	0	0				West	JUNE 21	
		Northwest	0	0	2	6	9	10	10	10	9	6	2	0	0				Southwest		JUNE 21
		Horizontal	0	0	8	32	55	76	85	76	55	32	8	0	0				Horizontal		
DEC 22	Horizontal	0	0	8	32	55	76	85	76	55	32	8	0	0	Horizontal	JUNE 21					
	Horizontal	0	0	8	32	55	76	85	76	55	32	8	0	0	Horizontal		JUNE 21				
Solar Gain Correction	Steel Sash, or No Sash × 1.85 or 1.17	Haze — 15% (Max.)				Altitude + 0.7% per 1000 Ft				Dewpoint Decrease From 67 F + 7% per 10 F				Dewpoint Increase From 67 F — 7% per 10 F		South Lat. Dec. or Jan. + 7%					

Bold Face Values — Monthly Maximums

Boxed Values — Yearly Maximums

TABLE 15—SOLAR HEAT GAIN THRU ORDINARY GLASS (Contd)

50°

Btu/(hr) (sq ft sash area)

50°

50° NORTH LATITUDE		SUN TIME												50° SOUTH LATITUDE				
Time of Year	Exposure	6	7	8	9	10	11	Noon	1	2	3	4	5	6	Exposure	Time of Year		
JUNE 21	North	29	12	12	13	14	14	14	14	14	13	12	12	29	South	DEC 22		
	Northeast	126	125	94	50	16	14	14	14	14	13	12	10	8	Southeast			
	East	139	164	162	136	94	41	14	14	14	13	12	10	8	East			
	Southeast	64	102	126	135	124	98	61	23	14	13	12	10	8	Northeast			
	South	8	10	16	39	68	87	93	87	68	39	16	10	8	North			
JULY 23 & MAY 21	Southwest	8	10	12	13	14	23	61	98	124	135	126	102	64	Northwest	NOV 21		
	West	8	10	12	13	14	14	14	41	94	136	162	164	139	West			
	Northwest	8	10	12	13	14	14	14	16	50	94	125	126	102	Southwest			
	Horizontal	44	86	133	173	197	214	220	214	197	173	133	86	44	Horizontal			
	North	21	11	12	13	14	14	14	14	14	13	12	11	21	South		JAN 21 & NOV 21	
Northeast	114	117	87	44	15	14	14	14	14	13	12	10	6	Southeast				
East	131	161	163	141	96	43	14	14	14	13	12	10	6	East				
South	65	107	134	143	136	109	70	26	14	13	12	10	6	Northeast				
Southwest	6	10	21	50	80	98	106	98	80	50	21	10	6	North				
AUG 24 & APR 20	Southwest	6	10	12	13	14	26	70	109	136	143	134	107	65	Northwest	OCT 23		
	West	6	10	12	13	14	14	14	43	96	141	163	161	131	West			
	Northwest	6	10	12	13	14	14	14	15	44	87	117	114	87	Southwest			
	Horizontal	33	75	119	159	188	205	211	205	188	159	119	75	33	Horizontal			
	North	8	8	10	12	13	14	14	14	13	12	10	8	8	South		FEB 20 & OCT 23	
Northeast	76	94	70	31	13	14	14	14	13	12	10	8	4	Southeast				
East	94	145	158	141	98	45	14	14	13	12	10	8	4	East				
South	53	111	144	157	153	132	89	40	13	12	10	8	4	Northeast				
Southwest	4	9	36	73	105	130	138	130	105	73	36	9	4	North				
SEPT 22 & MAR 22	Southwest	4	8	10	12	13	40	89	132	153	157	144	111	53	Northwest	SEPT 22		
	West	4	8	10	12	13	14	14	45	98	141	158	145	94	West			
	Northwest	4	8	10	12	13	14	14	14	13	31	70	94	76	Southwest			
	Horizontal	13	46	89	131	160	179	185	179	160	131	89	46	13	Horizontal			
	North	0	4	8	10	12	12	12	12	12	10	8	4	0	South		MAR 22 & SEPT 22	
Northeast	0	58	46	16	12	12	12	12	12	10	8	4	0	Southeast				
East	0	102	138	130	93	43	12	12	12	10	8	4	0	East				
South	0	86	139	162	163	145	105	56	17	10	8	4	0	Northeast				
Southwest	0	11	51	93	131	150	158	150	131	93	51	11	0	North				
OCT 23 & FEB 20	Southwest	0	4	8	10	12	12	12	12	12	10	8	4	0	Northwest	APR 20 & AUG 24		
	West	0	4	8	10	12	12	12	43	93	130	138	102	0	West			
	Northwest	0	4	8	10	12	12	12	12	12	16	46	58	0	Southwest			
	Horizontal	0	15	49	88	118	140	148	140	118	88	49	15	0	Horizontal			
	North	0	0	4	7	9	10	11	10	9	7	4	0	0	South		MAY 21 & JULY 23	
Northeast	0	29	20	7	9	10	11	10	9	7	4	0	0	Southeast				
East	0	73	99	105	79	35	11	10	9	7	4	0	0	East				
South	0	69	111	145	157	144	115	69	24	7	4	0	0	Northeast				
Southwest	0	17	53	99	137	157	167	157	137	99	53	17	0	North				
NOV 21 & JAN 21	Southwest	0	0	4	7	24	69	115	144	157	145	111	69	0	Northwest	JUNE 21		
	West	0	0	4	7	9	10	11	35	79	105	99	73	0	West			
	Northwest	0	0	4	7	9	10	11	10	9	7	20	29	0	Southwest			
	Horizontal	0	2	19	45	72	86	94	86	72	45	19	2	0	Horizontal			
	North	0	0	1	4	6	8	9	8	6	4	1	0	0	South		JUNE 21	
Northeast	0	0	5	4	6	8	9	8	6	4	1	0	0	Southeast				
East	0	0	51	64	57	28	9	8	6	4	1	0	0	East				
South	0	0	62	95	127	127	107	67	21	4	1	0	0	Northeast				
Southwest	0	0	34	70	116	143	153	143	116	70	34	0	0	North				
DEC 22	Southwest	0	0	1	4	21	67	107	127	127	95	62	0	0	Northwest	JUNE 21		
	West	0	0	1	4	6	8	9	28	57	64	51	0	0	West			
	Northwest	0	0	1	4	6	8	9	8	6	4	5	0	0	Southwest			
	Horizontal	0	0	4	13	30	47	53	47	30	13	4	0	0	Horizontal			
	North	0	0	0	3	5	6	7	6	5	3	0	0	0	South		JUNE 21	
Northeast	0	0	0	3	5	6	7	6	5	3	0	0	0	Southeast				
East	0	0	0	27	47	23	7	6	5	3	0	0	0	East				
South	0	0	0	41	107	116	100	62	25	3	0	0	0	Northeast				
Southwest	0	0	0	31	99	131	141	131	99	31	0	0	0	North				
SOLAR GAIN CORRECTION	Steel Sash, or No Sash × 1/.85 or 1.17	Haze — 15% (Max.)				Altitude + 0.7% per 1000 Ft				Dewpoint Decrease From 67 F + 7% per 10 F				Dewpoint Increase From 67 F — 7% per 10 F				South Lat. Dec. or Jan. + 7%

Bold Face Values — Monthly Maximums

Boxed Values — Yearly maximums