

TABLE 16.8 Results of Ex. 16.4

		Local Solar Time																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
Corrected CLTD (°F)		-28	-31	-33	-35	-36	-38	-37	-34	-26	-15	-4	8	18	26	32	33	31	26	17	6	-5	-13	-20	-24
ICL (Btu/hr)		-1400	-1550	-1650	-1750	-1800	-1900	-1850	-1700	-1300	-750	-200	400	900	1600	1650	1550	1300	850	300	-250	-650	-1000	-1200	

TABLE 16.9 Cooling-Load Temperature Differences (CLTD) for Conduction through Glass and Doors

		Solar Time, hr																							
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
CLTD, °F	1	0	-1	-2	-2	-2	-2	0	2	4	7	9	12	13	14	14	13	12	10	8	6	4	3	2	
CLTD, °C	1	0	-1	-1	-1	-1	-1	0	1	2	4	5	7	7	8	8	7	7	6	4	3	2	2	1	

SOURCE: Reprinted by permission from ASHRAE Fundamentals 1993, p. 26.49.

Corrections: The values in the table were calculated for an inside temperature of 78 °F (25.5 °C) and an outdoor maximum temperature of 95 °F (35 °C) with an outdoor daily range of 21 °F (12 °C). The table remains approximately correct for other outdoor maximums (93 to 102 °F) (34 to 39 °C) and other outdoor daily ranges (16 to 34 °F) (9 to 19 °C), provided the outdoor daily average temperature remains approximately 85 °F (29.4 °C). If the room-air temperature is different from 78 °F (25.5 °C) and/or the outdoor daily average temperature is different from 85 °F (29.4 °C), see note 2, Table 16.5.