



## *A CUBE DIAL*

*For both  
Phoenix AZ,  
and for Silver  
City NM*

*A horizontal,  
vertical  
and an east  
and west  
meridian dial*



Quite a few years ago, I built a cube dial with simple CAD produced plates. This project was nothing more than CAD produced dial plates for a horizontal, a vertical and the east and west meridian dials. This dial had an EOT table on the back and corrections for Los Angeles, Phoenix, and Silver City, NM.

The CAD plates were originally worked using TurboCAD, however, the DeltaCAD macros that are available on the Illustrating Shadows web site allow the dial plates to be drafted quickly.

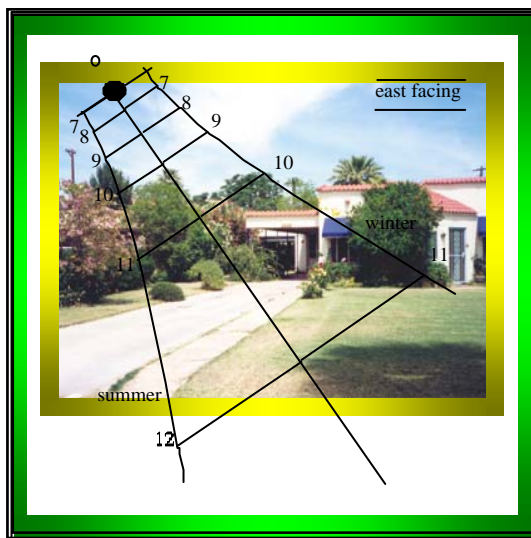
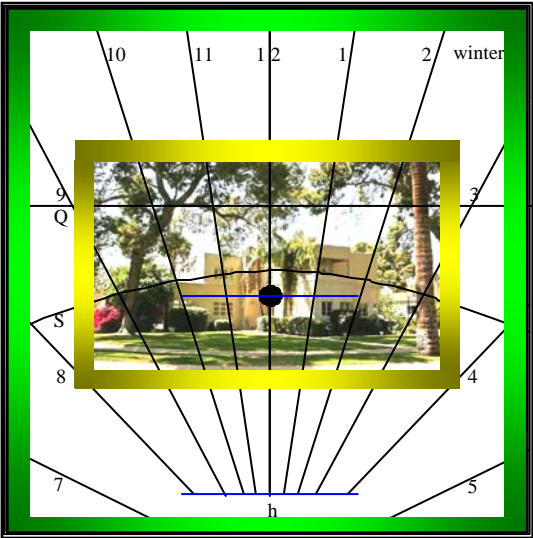
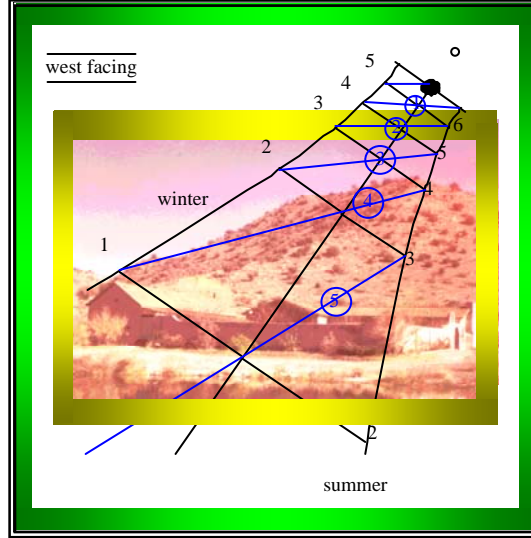
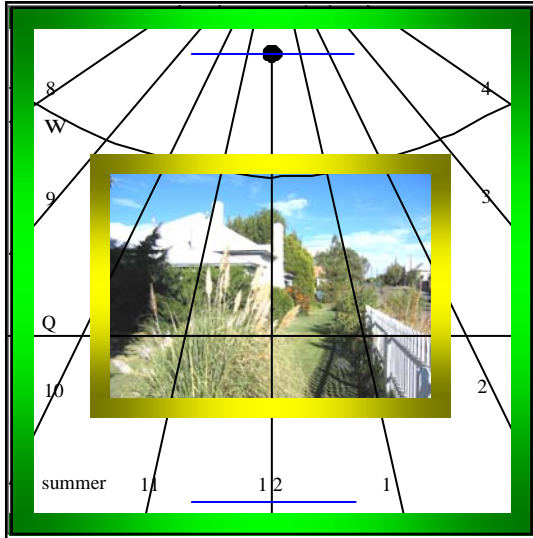


Whereas CUBIC SHADOWS addressed a cube dial using the equatorial, polar, and meridian dials without Italian lines, thus making the dial plates work for any latitude, this dial uses horizontal and vertical dial plates, and they are thus latitude specific.

Anything that is latitude specific might just as well have Italian lines. They need a solstive and an equinox line as a minimum, or the two solstice curves.

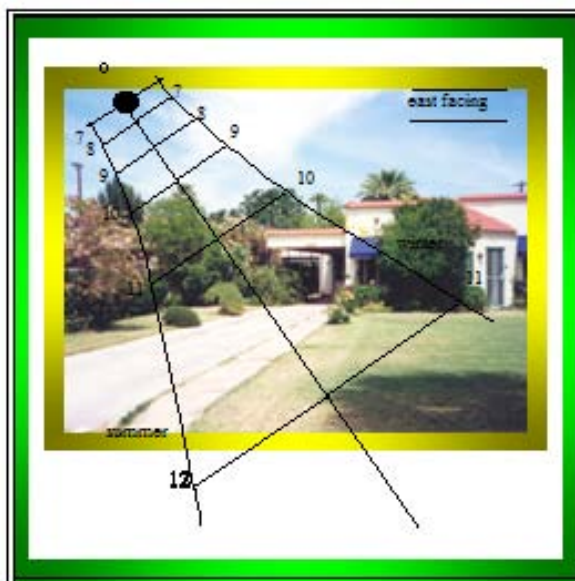
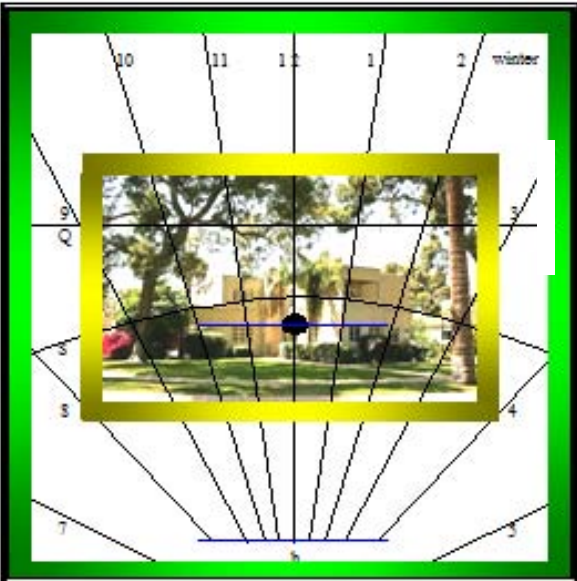
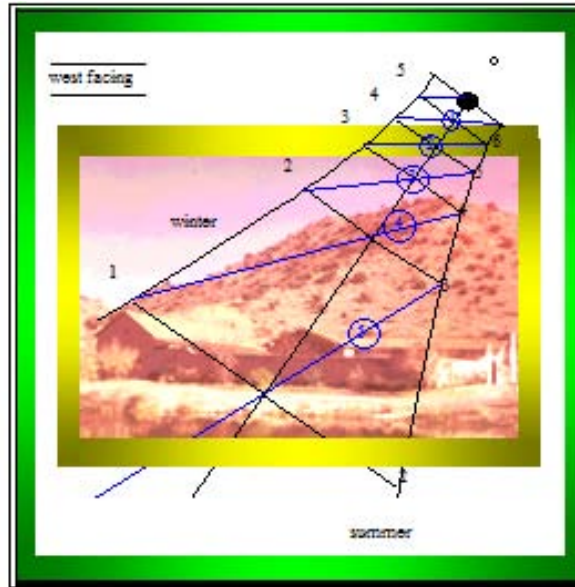
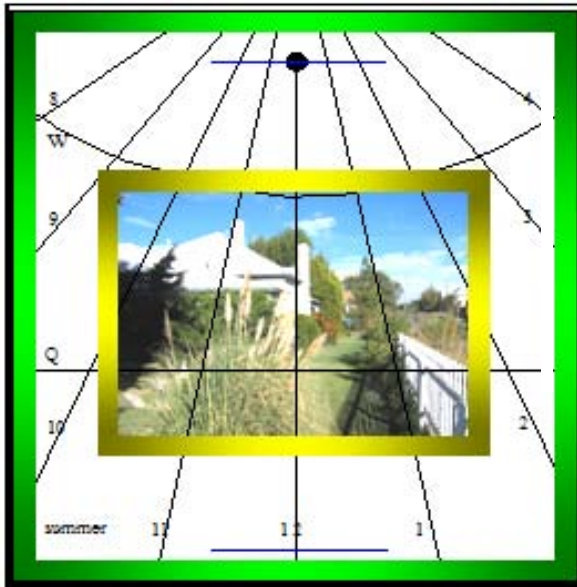
Since Phoenix and Silver City are close in latitude, this dial had no longitude correction at all, but the north facing plate had two EOT tables, one for Phoenix, one for Silver City.

The Diptych dial case stude has different EOT tables for Phoenix and Silver City. This is because th Diptych dial was designed for Silver City, and thus its EOT table was a pure EOT table. Whereas, this dial was designed for the legal meridian, thus both EOT tables have longitude corrections.



	SILVER CITY			PHOENIX		
	5th	15th	25th	5th	15th	25th
JAN	17.9	21.8	24.8	33.9	37.8	40.8
FEB	26.7	27.0	26.2	42.7	43.0	42.2
MAR	24.7	22.1	19.1	40.7	38.1	35.1
APR	15.6	12.8	10.5	31.6	28.8	26.5
MAY	9.2	8.8	9.3	25.2	24.8	25.3
JUN	10.8	12.7	14.8	26.8	28.7	30.8
JULY	16.7	18.1	18.7	32.7	34.1	34.7
AUG	18.2	16.6	14.2	34.2	32.6	30.2
SEP	10.6	7.0	3.4	26.6	23.0	19.4
OCT	0.1	-2.3	-3.7	16.1	13.7	12.3
NOV	-3.7	-2.3	0.3	12.3	13.7	16.3
DEC	4.0	8.3	13.0	20.0	24.3	29.0

2 3/4 inch squares CAD image pasted as Windows metafile



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NOV	-3.7	-2.3	0.3	12.3	13.7	16.3
DEC	4.0	8.3	13.0	20.0	24.3	29.0

3 inch squares CAD image pasted as Windows metafile