

Sundials 3

Laurence D. Finston

Last updated: October 11, 2007

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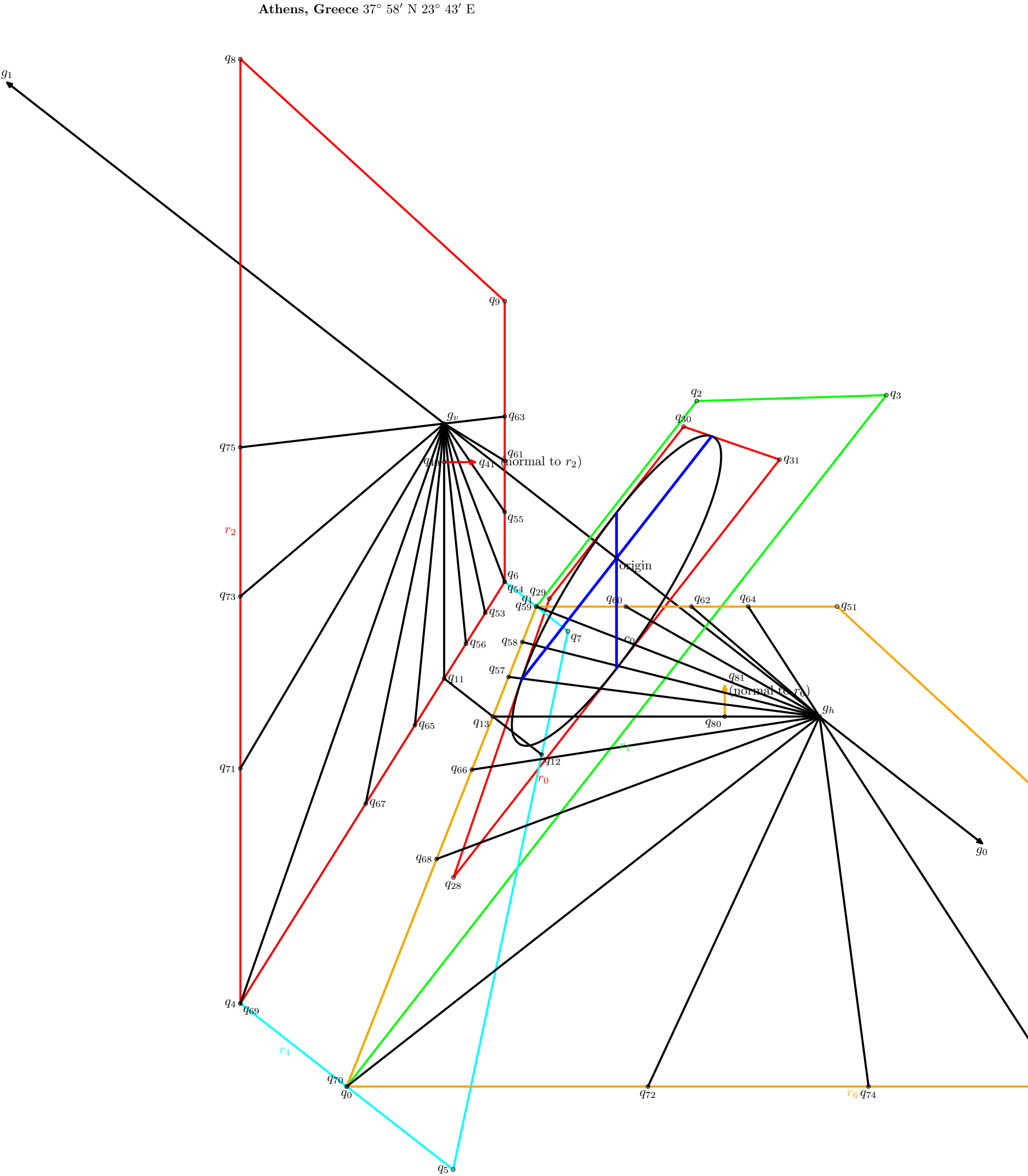
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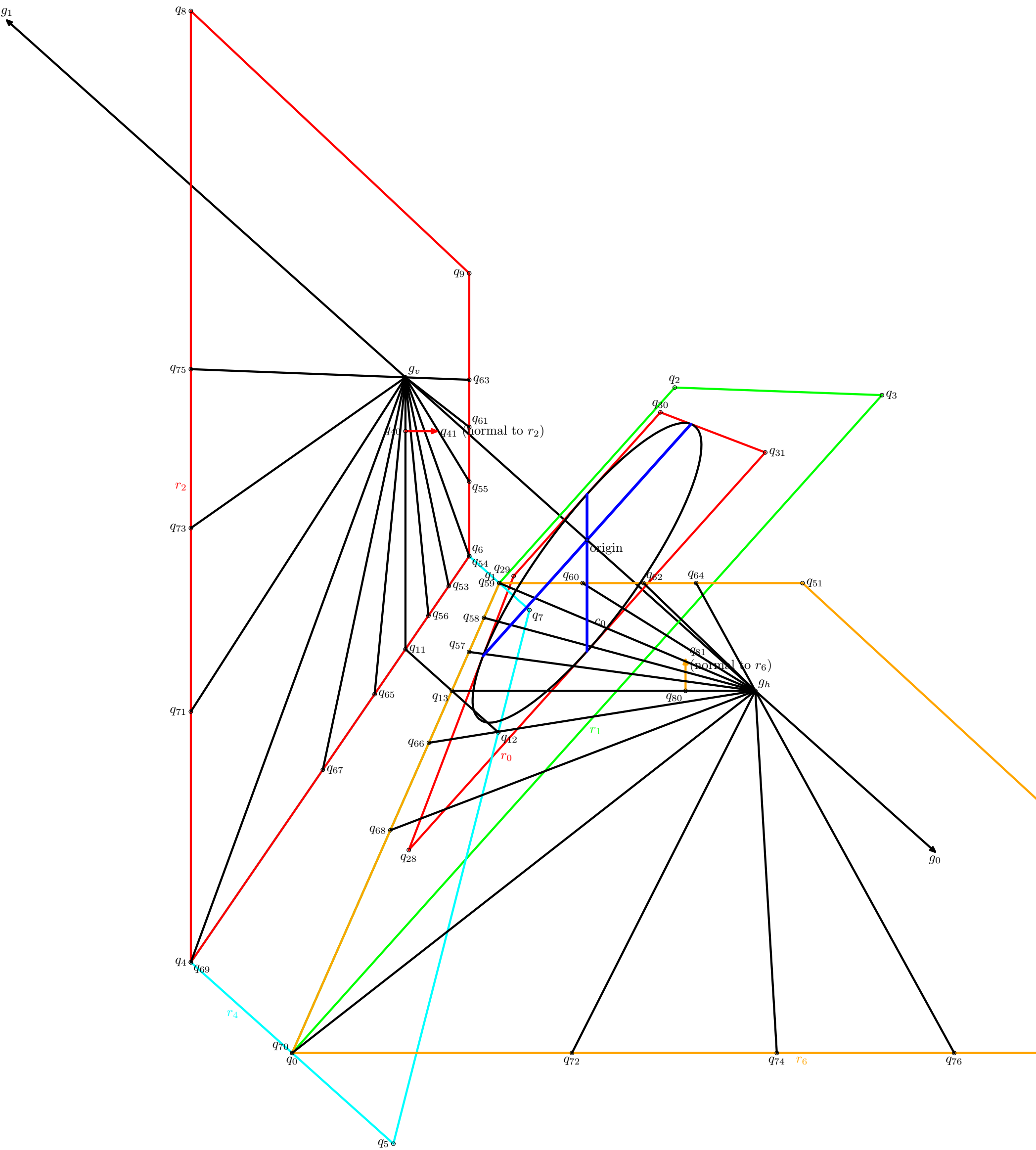
[illegible]

Jerusalem, Israel  $31^{\circ} 47' \text{ N}$ ,  $35^{\circ} 13' \text{ E}$   
Focus: position =  $(0, 5, -12)$ , direction =  $(0, 5, 10)$ , distance = 10  
(dimensions in centimeters)



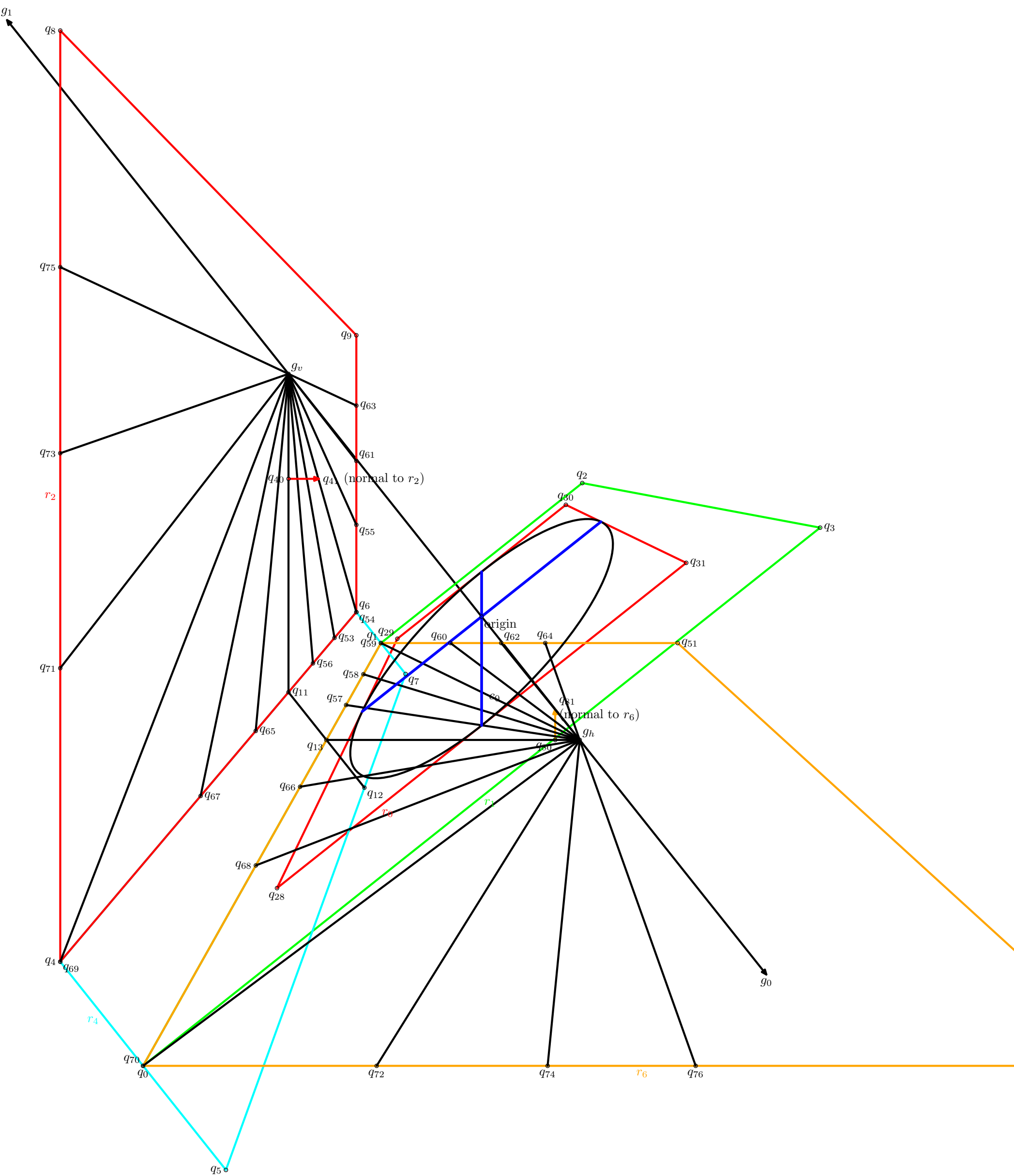
**Perspective projection**  
Latitude 41° 54' N (Athens, Greece)  
Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10  
(dimensions in centimeters)

Chicago, Illinois, USA 41° 52' 55" N 87° 37' 40" W



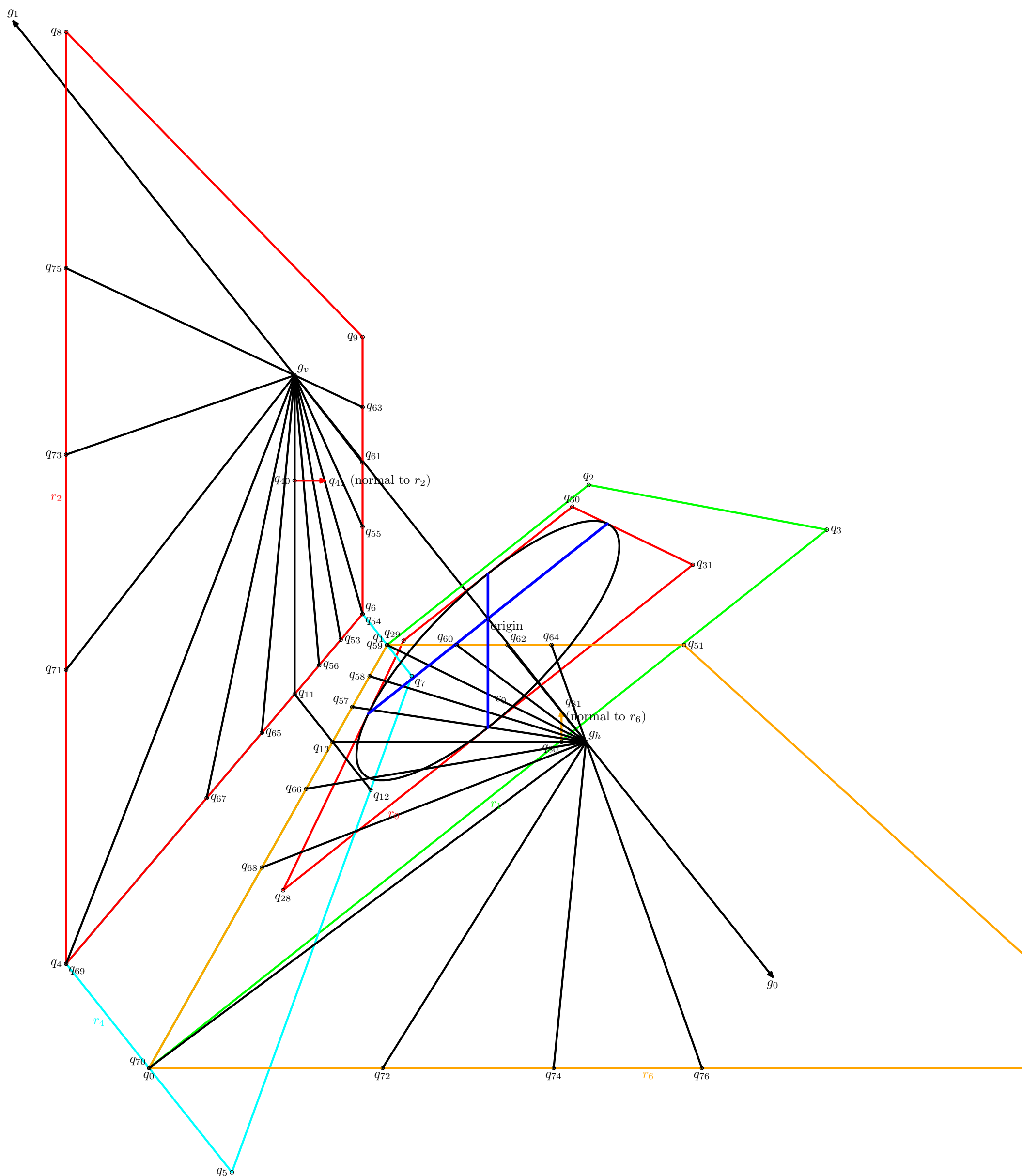
**Perspective projection**  
Chicago, Illinois, USA 41° 52' 55" N 87° 37' 40" W  
Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10  
(dimensions in centimeters)

London, UK 51° 30' 28" N, 0° 7' 41" W



**Perspective projection**  
Latitude 51° 30' 28" N (London, UK)  
Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10  
(dimensions in centimeters)

Göttingen, Germany 51° 32' N, 9° 56' E



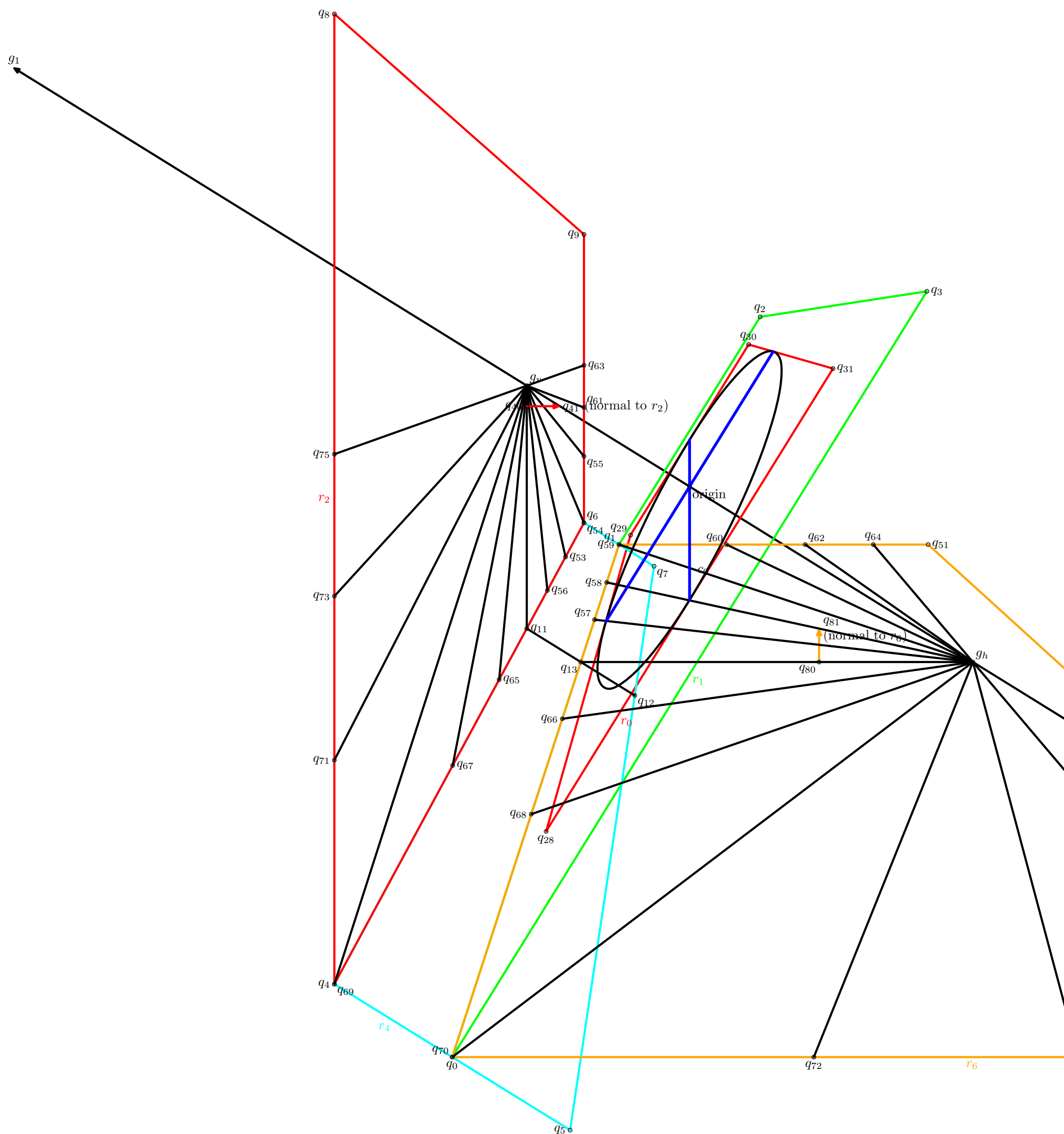
### Perspective projection

Latitude 51° 32' N (Göttingen, Germany)

Focus: position =  $(0, 5, -12)$ , direction =  $(0, 5, 10)$ , distance = 10  
(dimensions in centimeters)

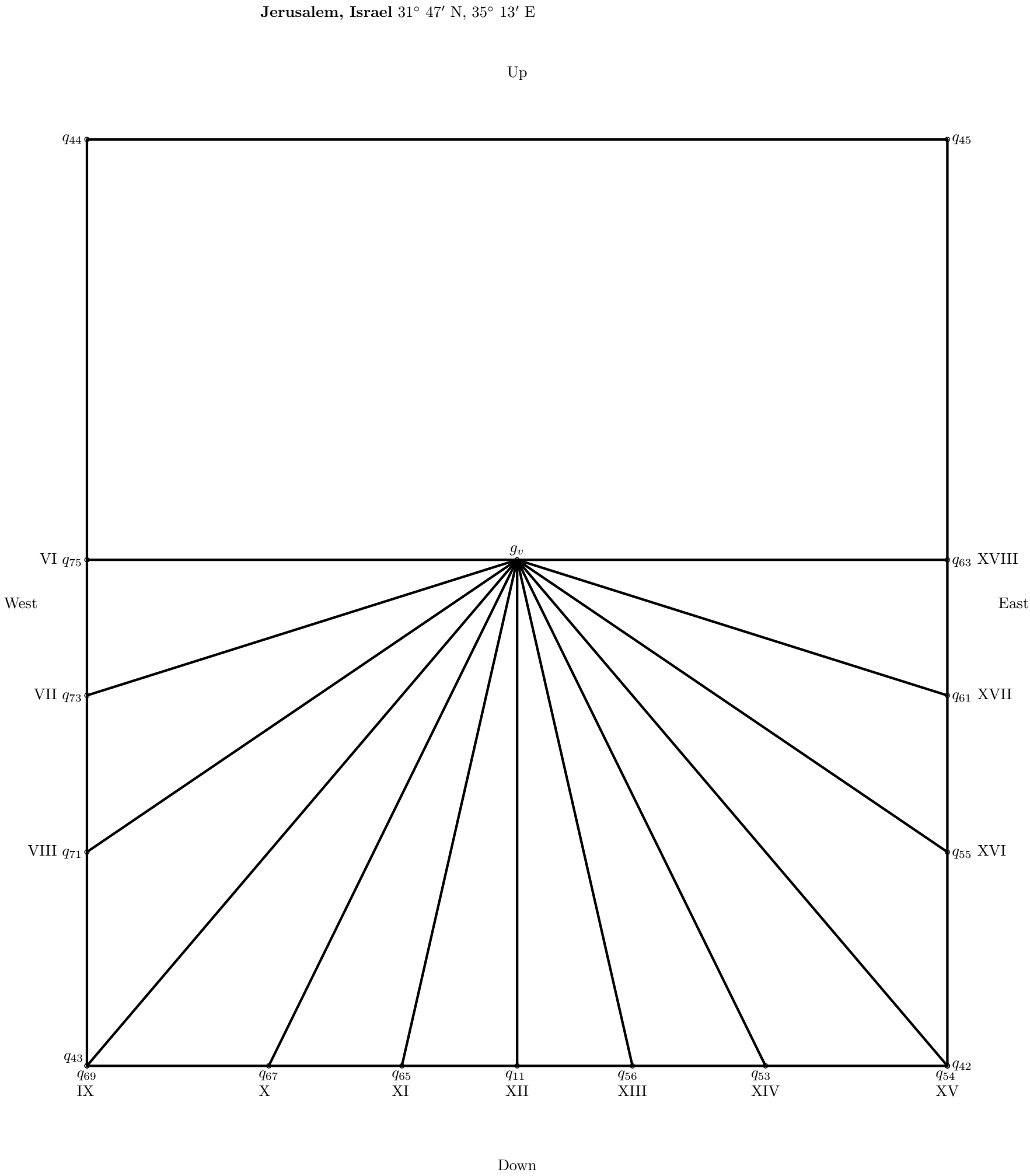
[illegible]

Latitude  $51^{\circ} 32' \text{ N}$  (Göttingen, Germany)  
Focus: position =  $(0, 5, -12)$ , direction =  $(0, 5, 10)$ , distance = 10  
(dimensions in centimeters)

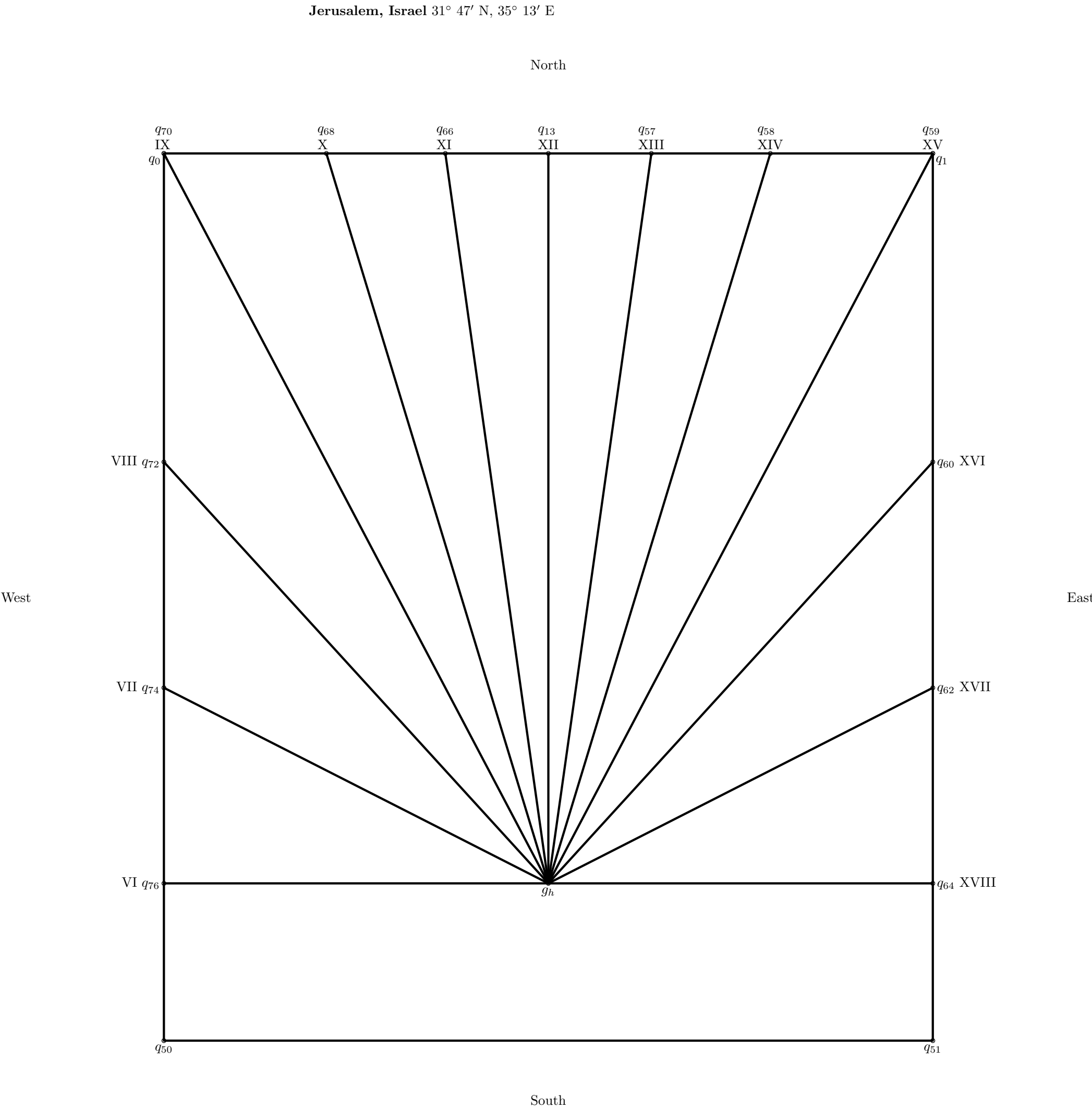


Jerusalem, Israel  $31^{\circ} 47' \text{ N}$ ,  $35^{\circ} 13' \text{ E}$   
Focus: position =  $(0, 5, -12)$ , direction =  $(0, 5, 10)$ , distance = 10  
(dimensions in centimeters)

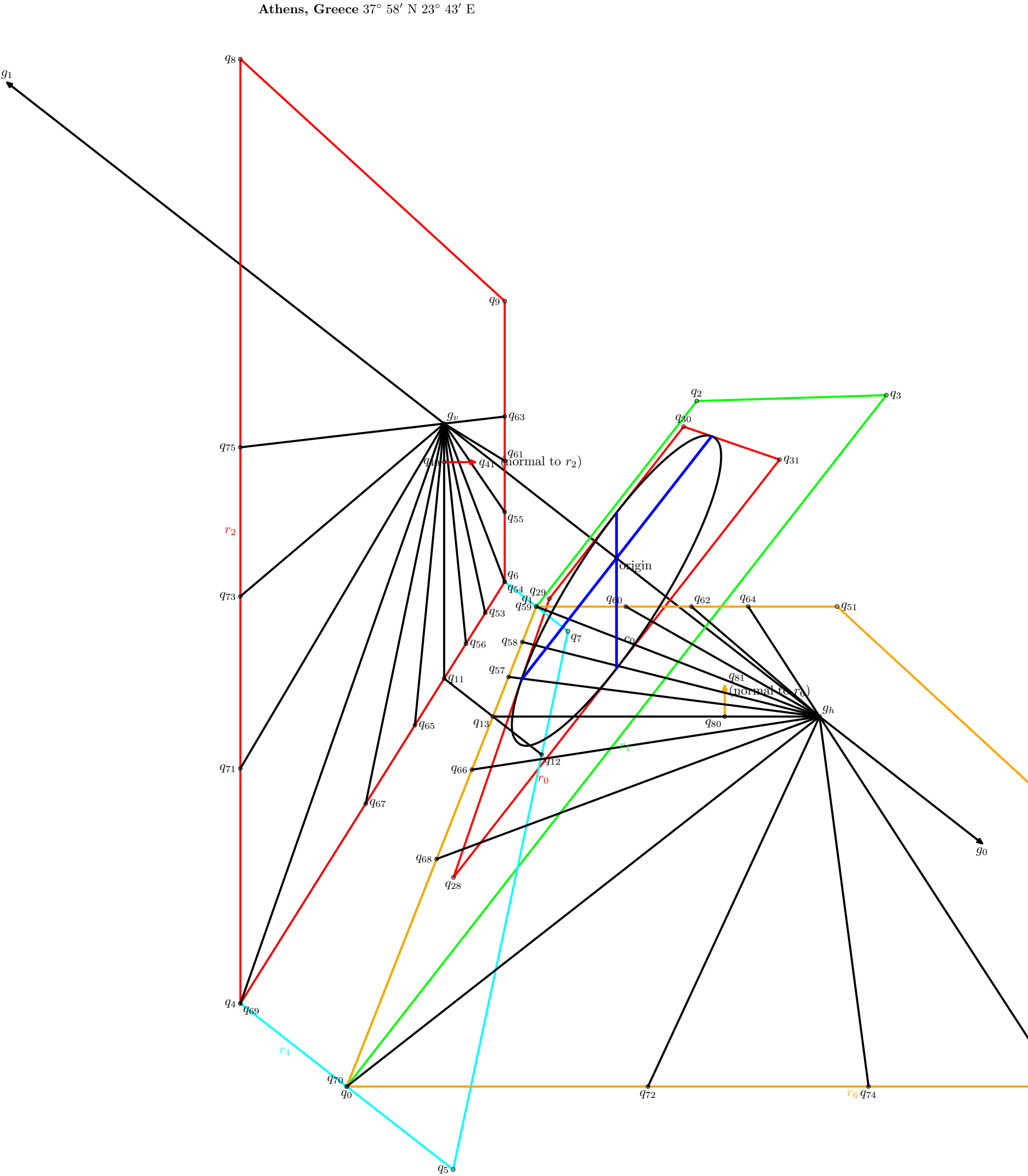




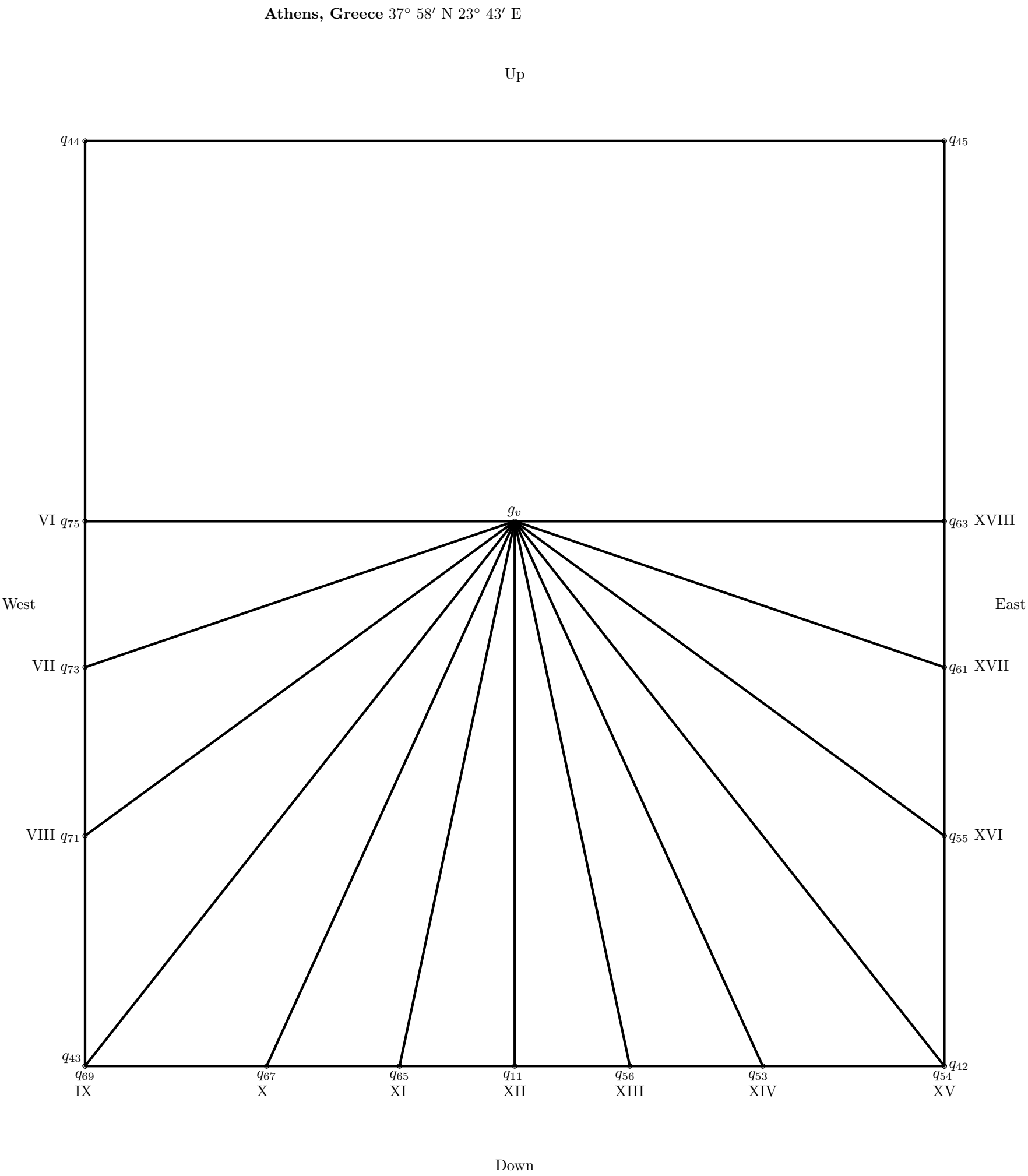
**Parallel projection onto the vertical plane** (plane of  $r_1$ )  
Vertical dial facing due south  
Jerusalem, Israel 31° 47' N, 35° 13' E



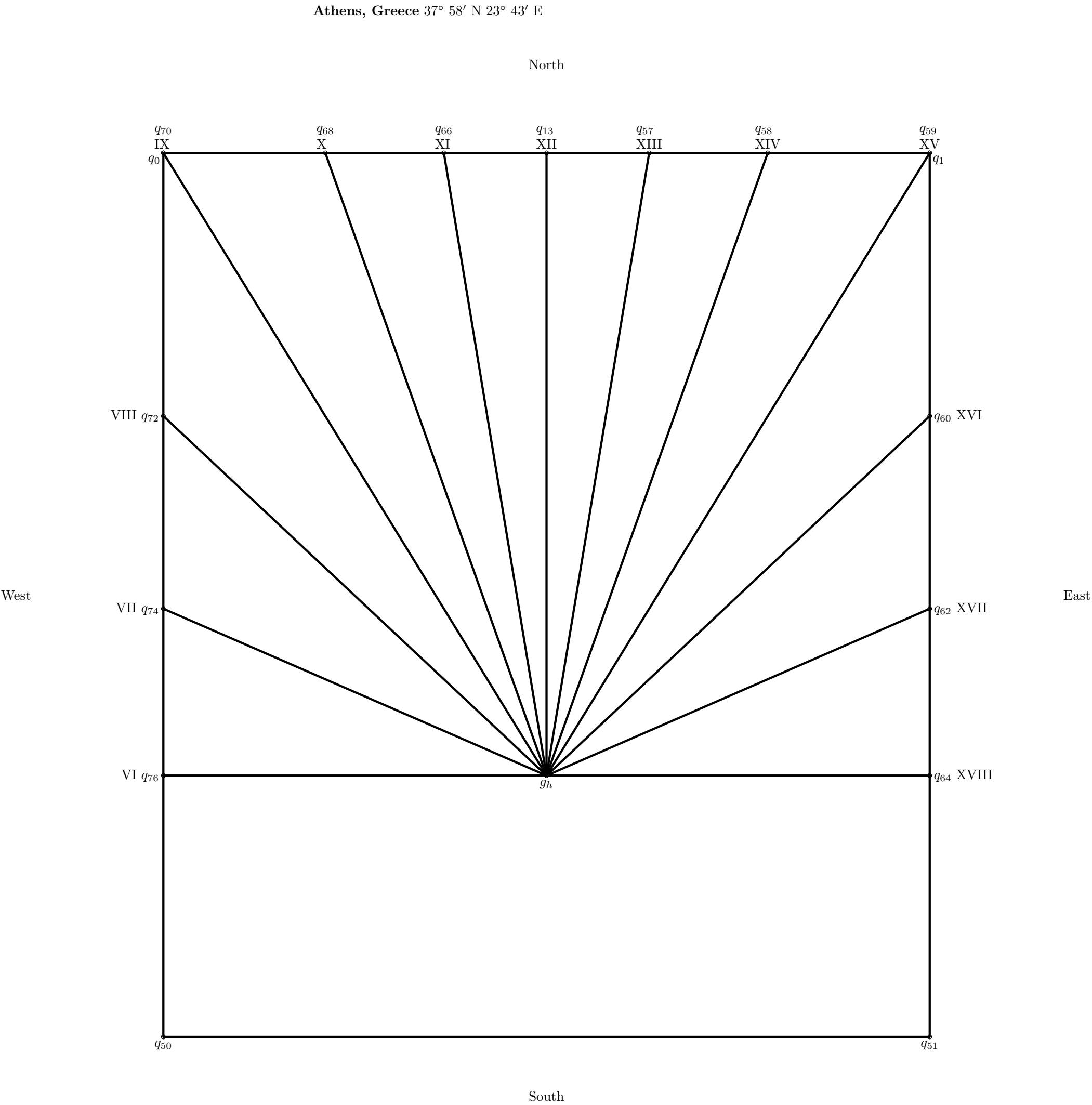
**Parallel projection onto the horizontal plane** (plane of  $r_6$ )  
Horizontal dial  
Jerusalem, Israel 31° 47' N, 35° 13' E



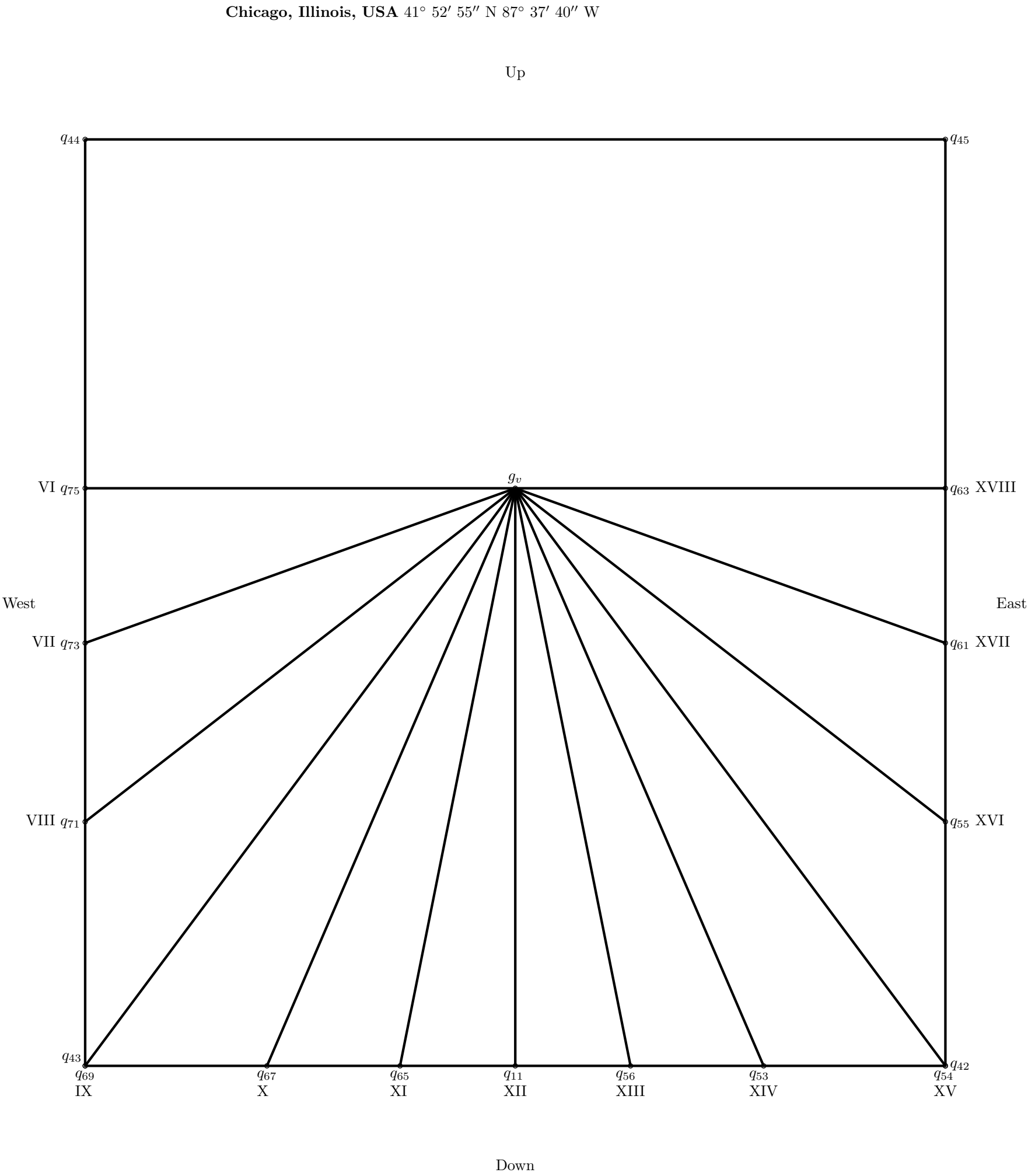
**Perspective projection**  
Latitude 41° 54' N (Athens, Greece)  
Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10  
(dimensions in centimeters)



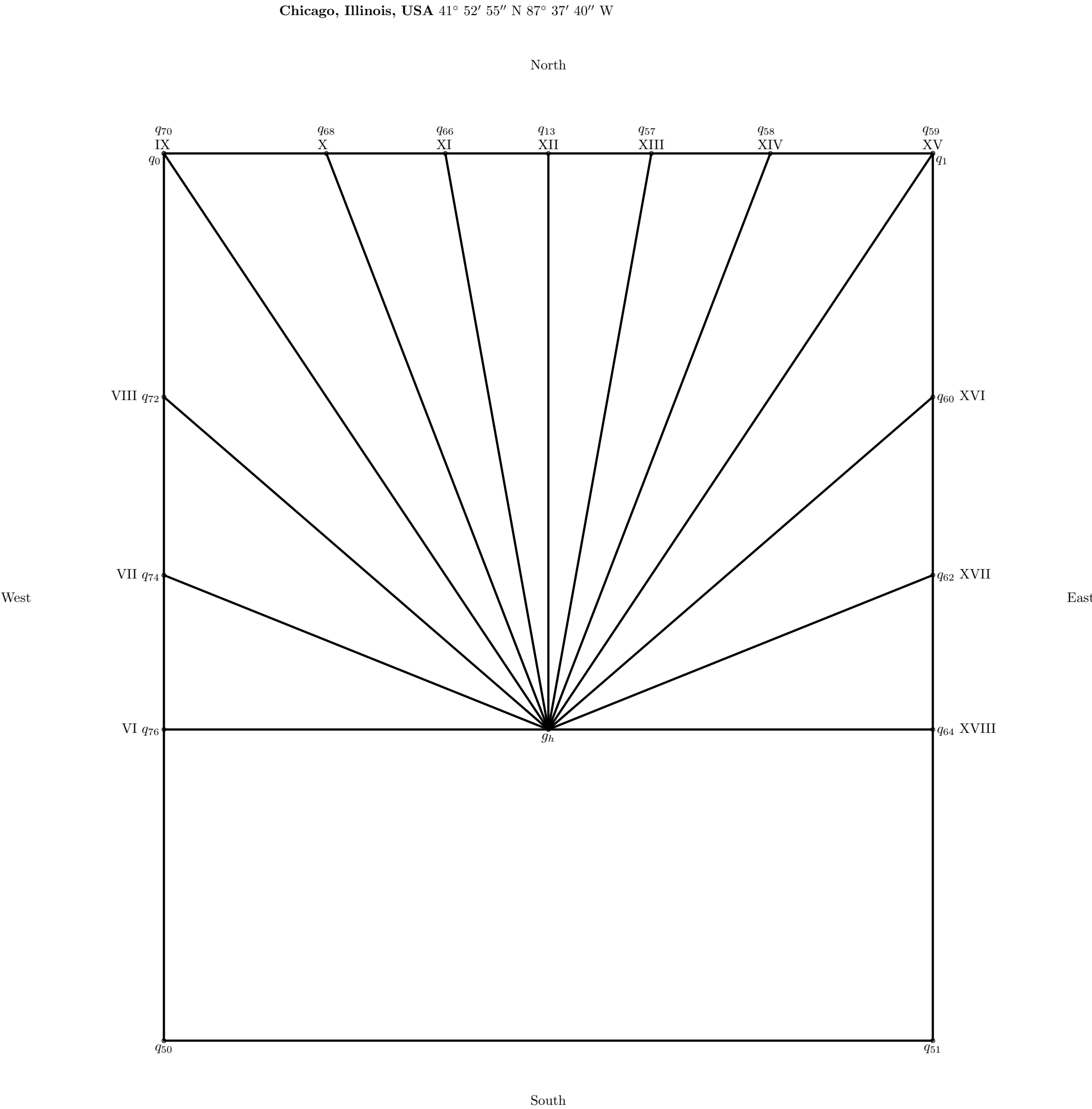
Parallel projection onto the vertical plane (plane of  $r_1$ )  
Vertical dial facing due south  
Latitude 41° 54' N (Athens, Greece)







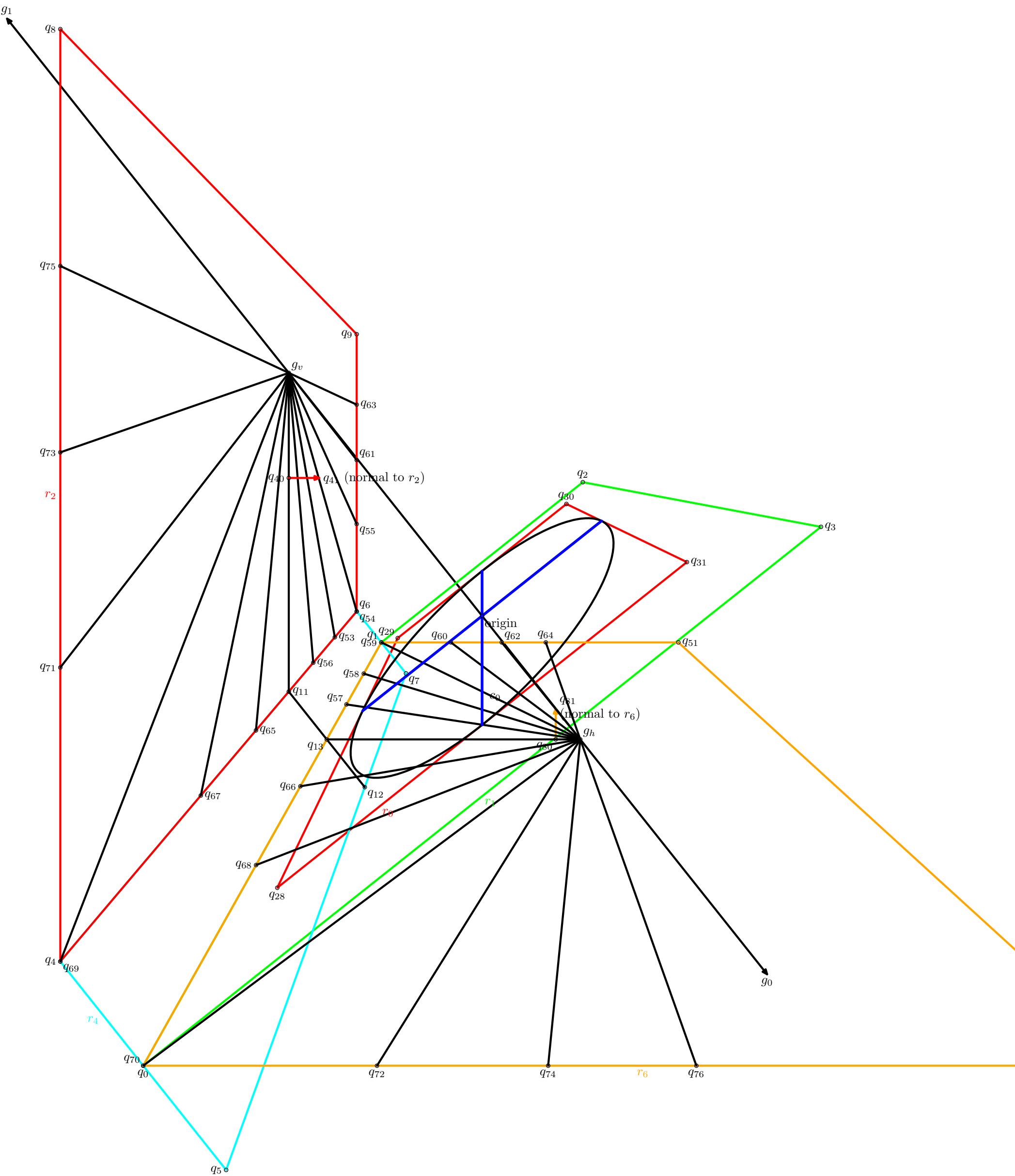
**Parallel projection onto the vertical plane** (plane of  $r_1$ )  
Vertical dial facing due south  
Chicago, Illinois, USA 41° 52' 55" N 87° 37' 40" W



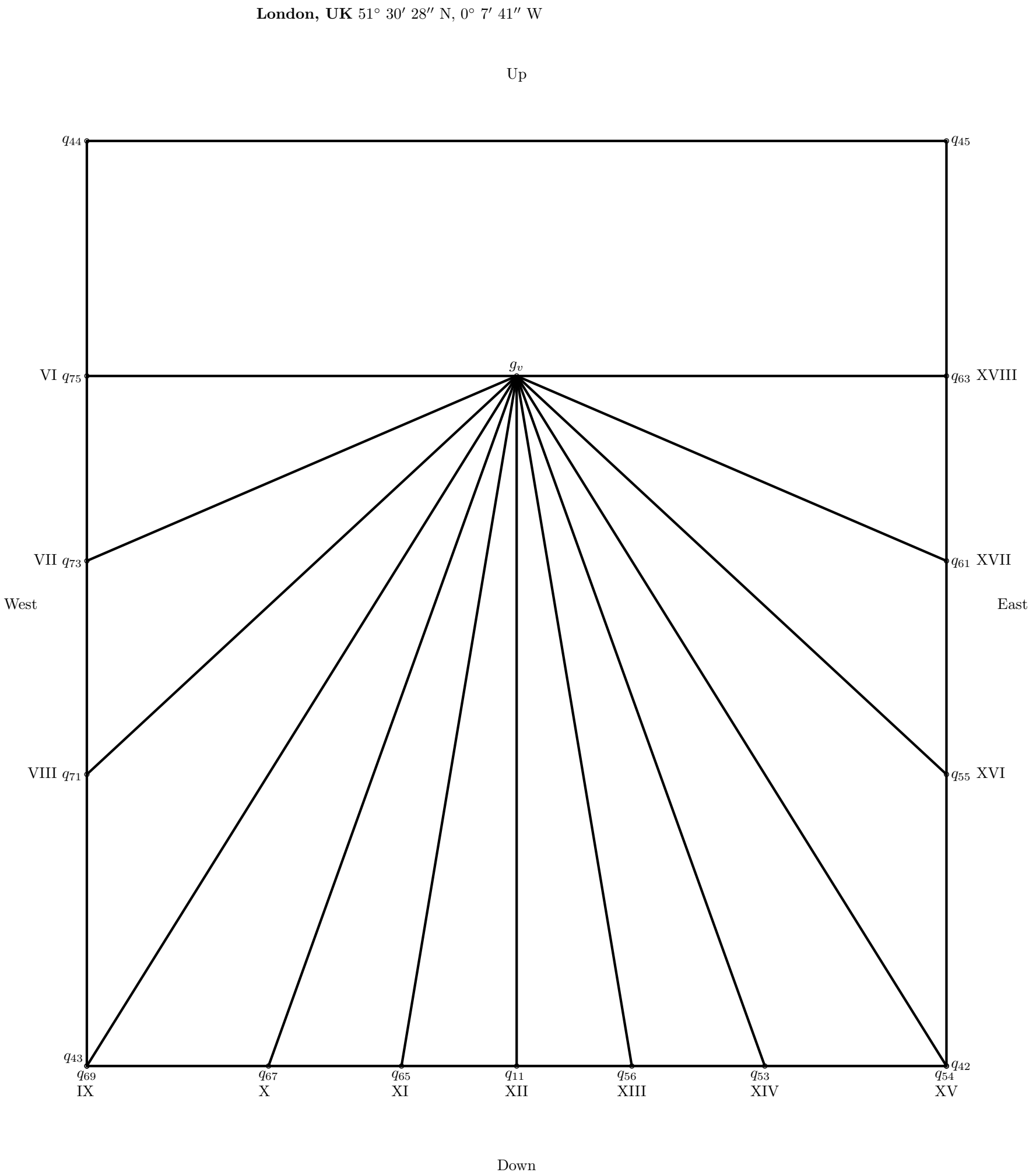
**Parallel projection onto the horizontal plane** (plane of  $r_6$ )  
Horizontal dial  
Chicago, Illinois, USA 41° 52' 55" N 87° 37' 40" W



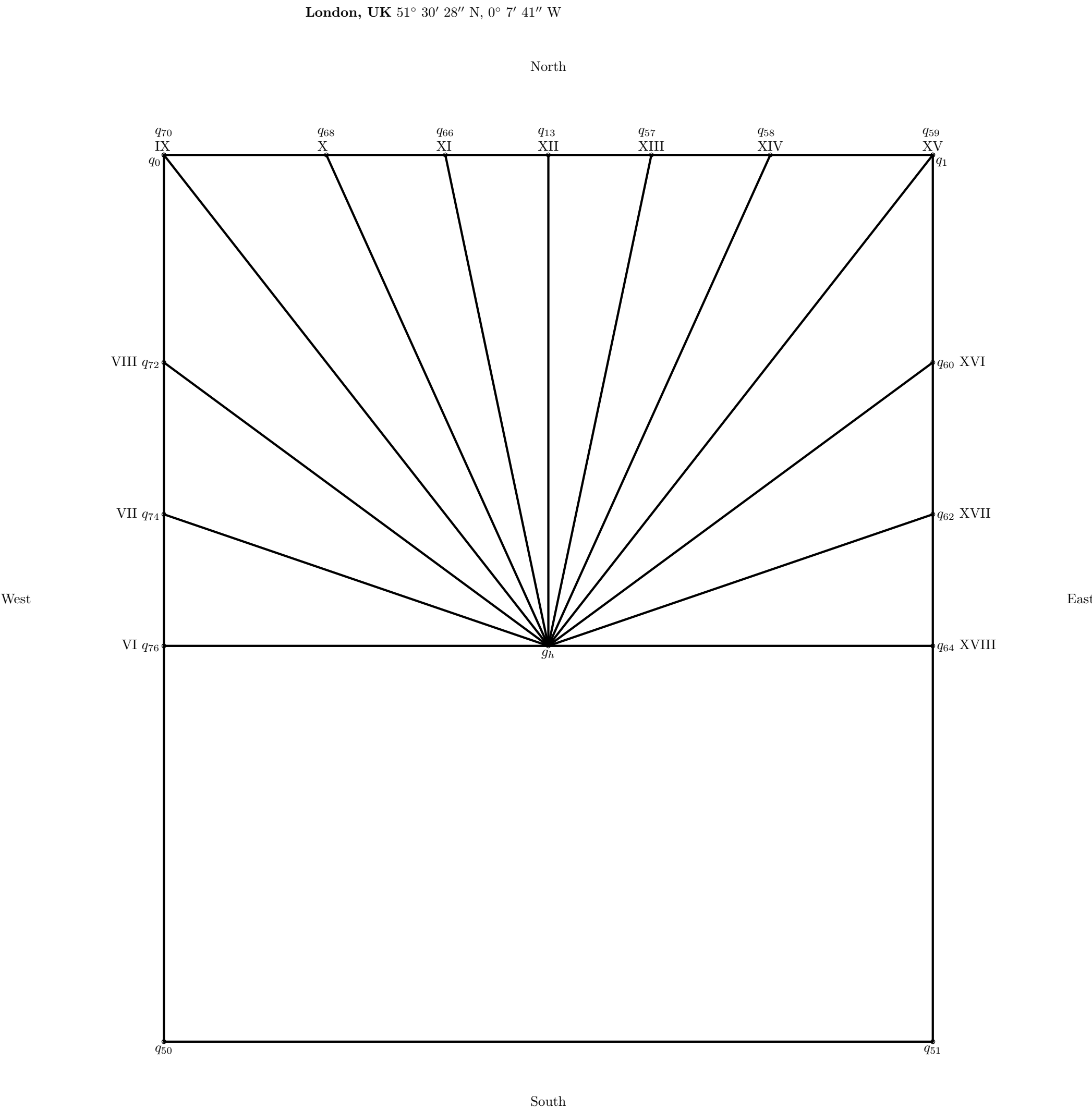
London, UK 51° 30' 28'' N, 0° 7' 41'' W



**Perspective projection**  
Latitude 51° 30' 28'' N (London, UK)  
Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10  
(dimensions in centimeters)

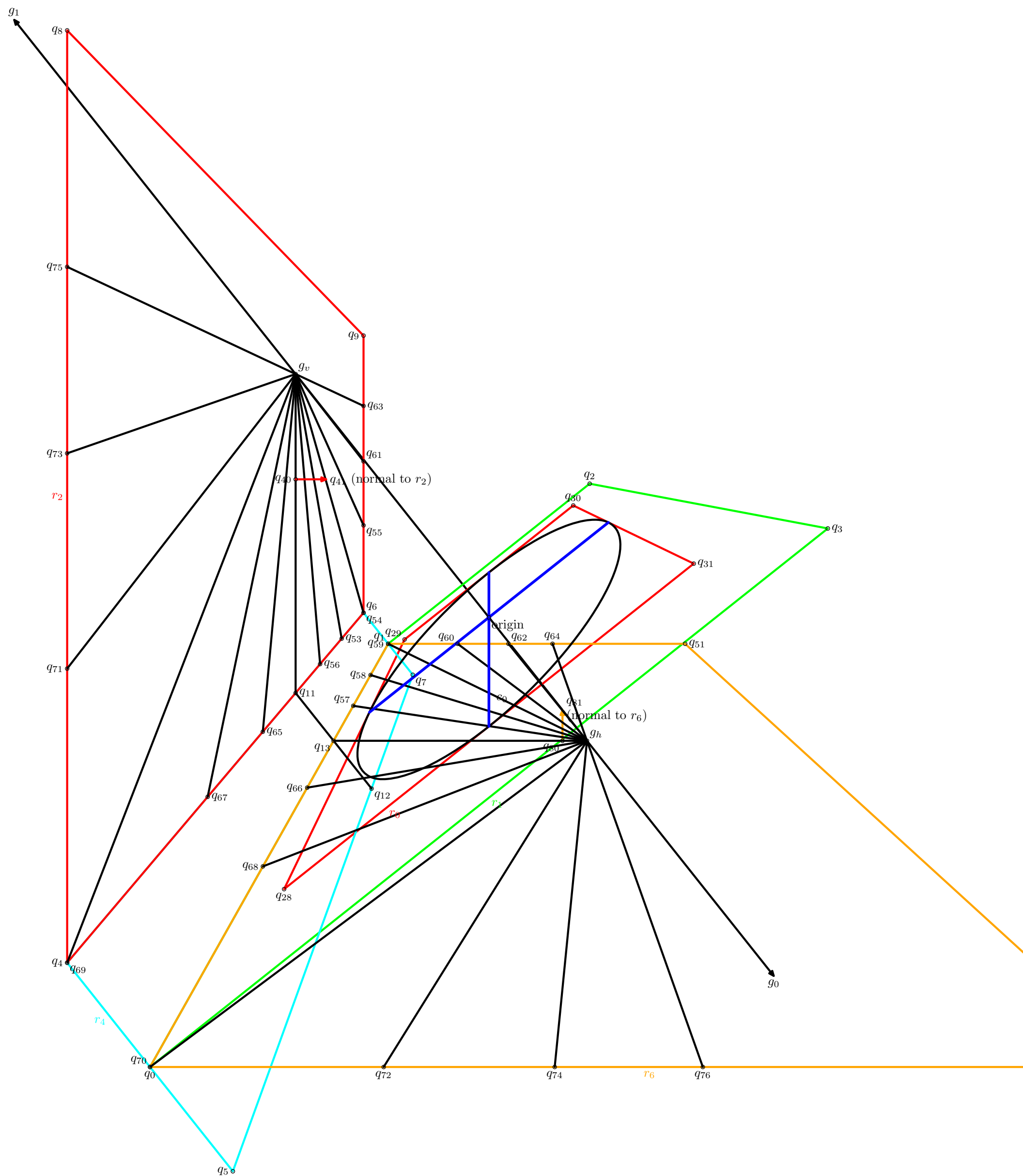


**Parallel projection onto the vertical plane** (plane of  $r_1$ )  
Vertical dial facing due south  
Latitude 51° 30' 28" N (London, UK)

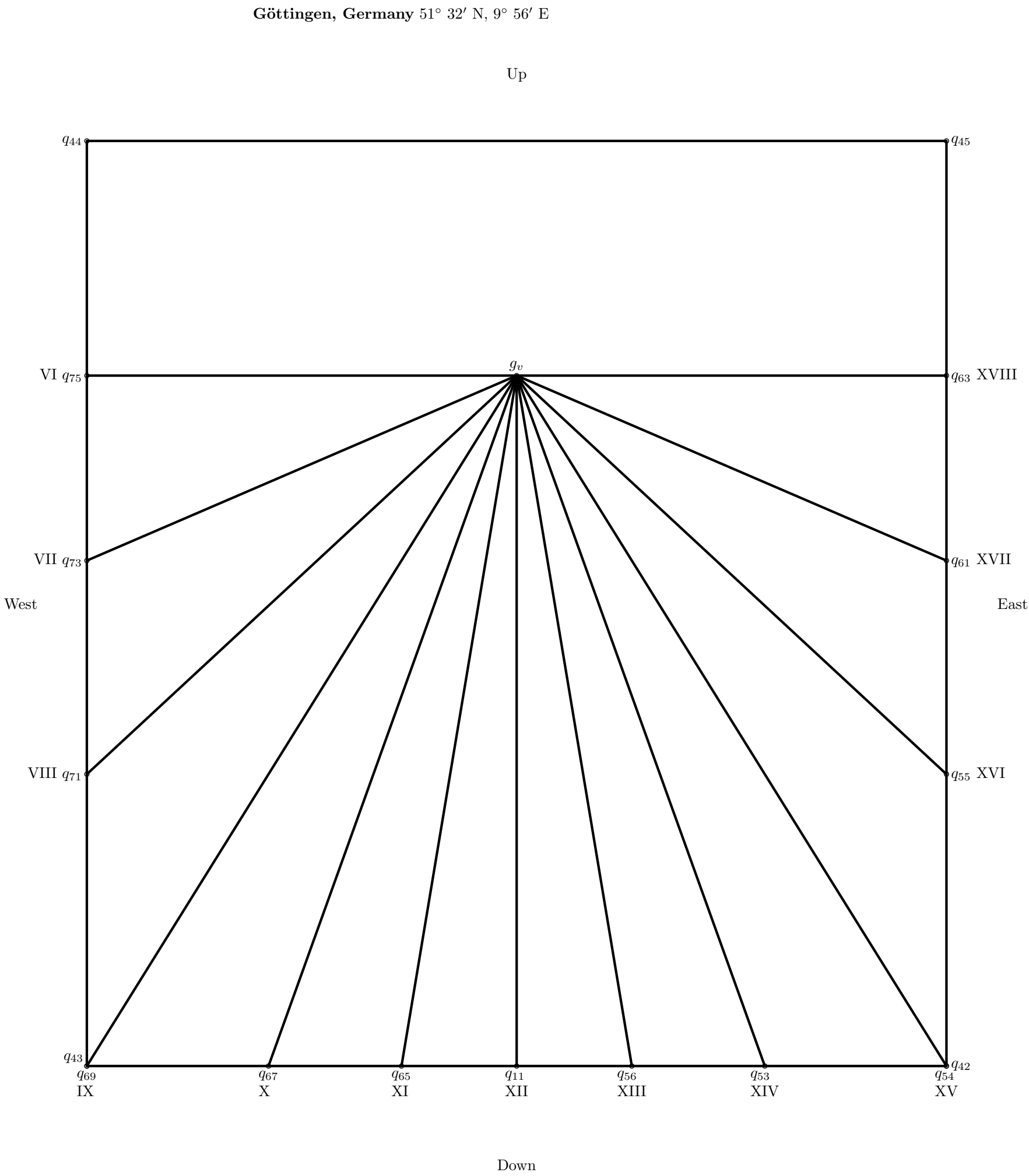


**Parallel projection onto the horizontal plane** (plane of  $r_6$ )  
Horizontal dial  
Latitude 51° 30′ 28″ N (London, UK)

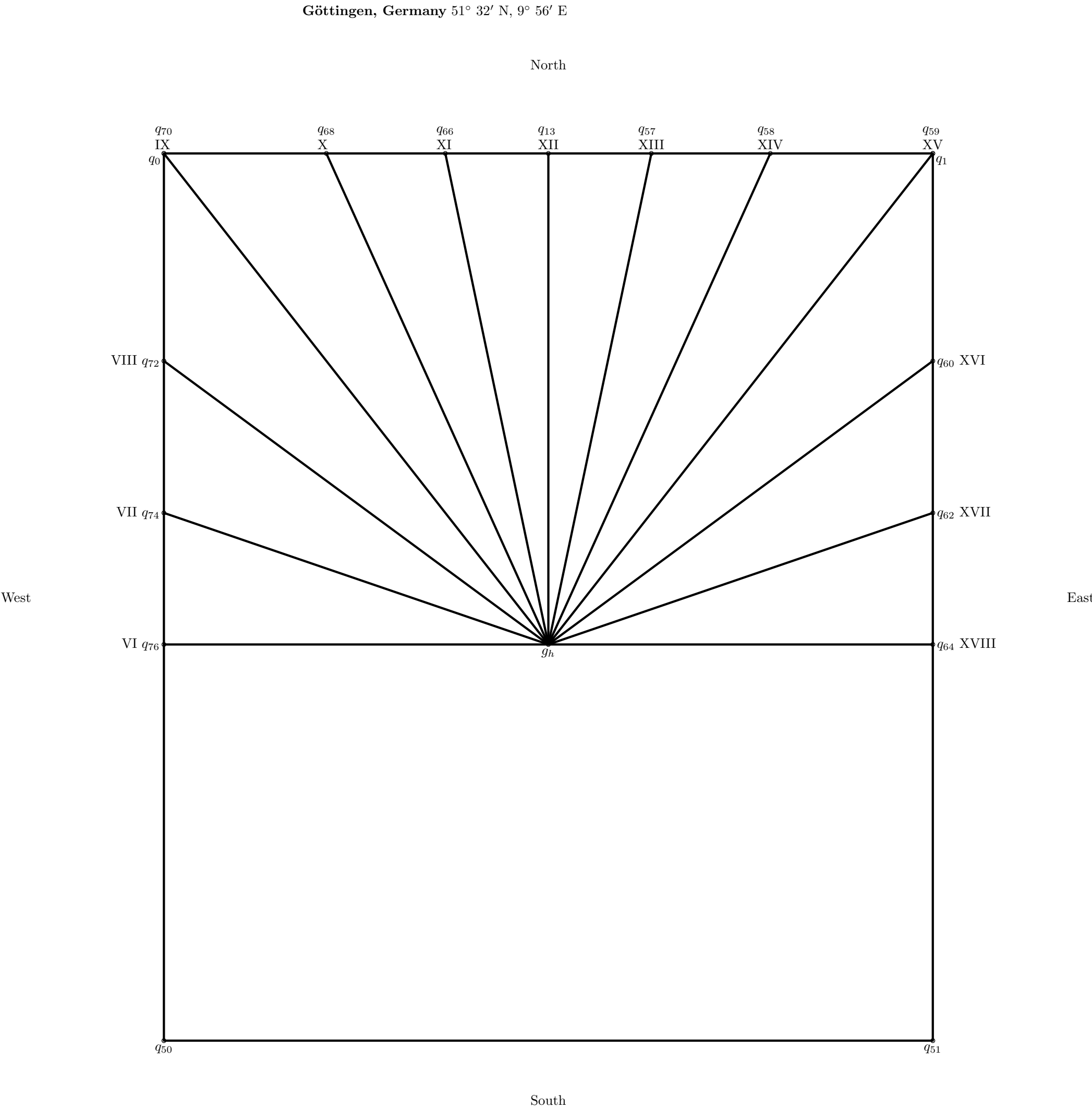
Göttingen, Germany 51° 32' N, 9° 56' E



**Perspective projection**  
Latitude 51° 32' N (Göttingen, Germany)  
Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10  
(dimensions in centimeters)

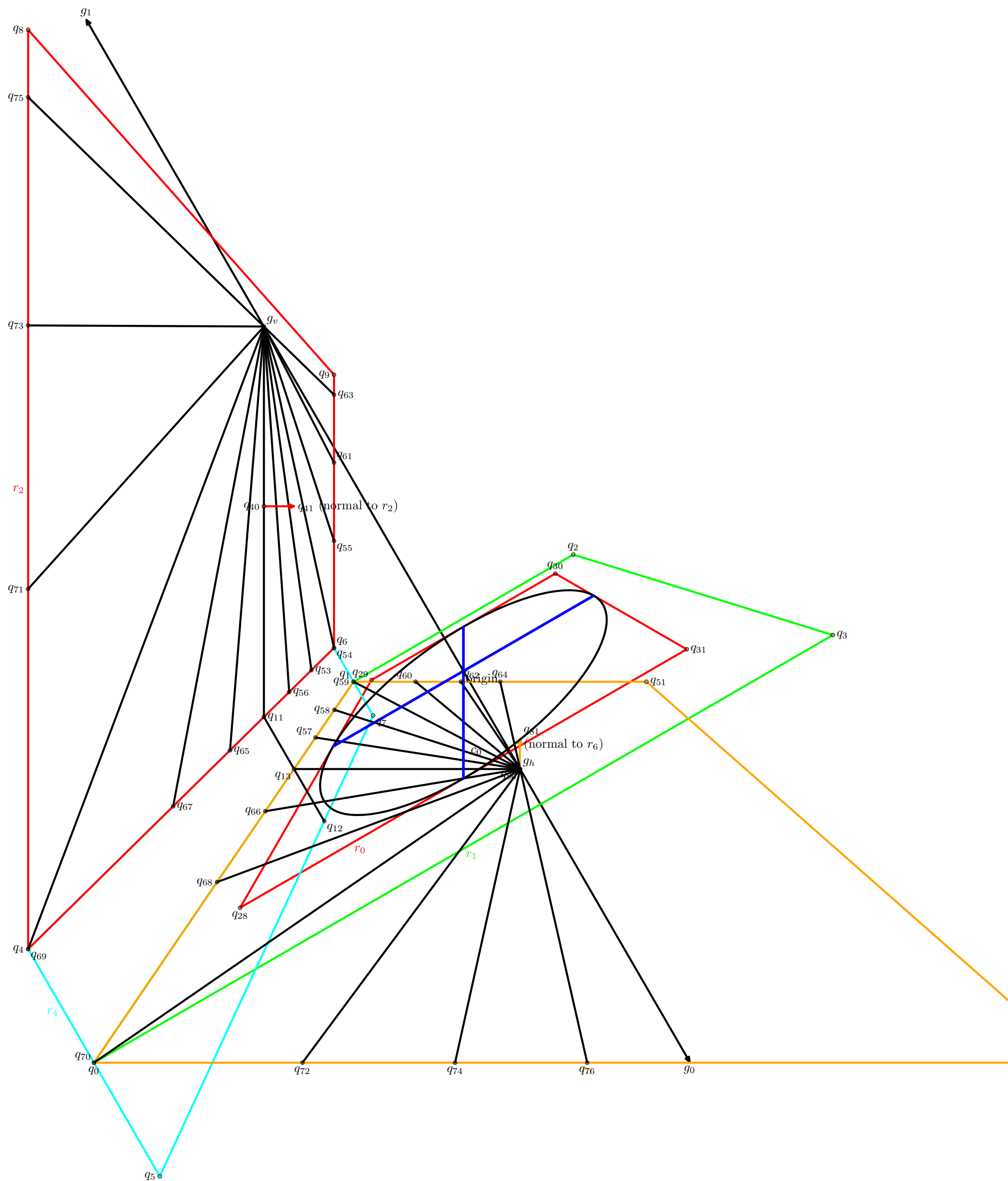


**Parallel projection onto the vertical plane** (plane of  $r_1$ )  
Vertical dial facing due south  
Latitude 51° 32' N (Göttingen, Germany)



**Parallel projection onto the horizontal plane** (plane of  $r_6$ ).  
Horizontal dial  
Latitude 51° 32' N (Göttingen, Germany)

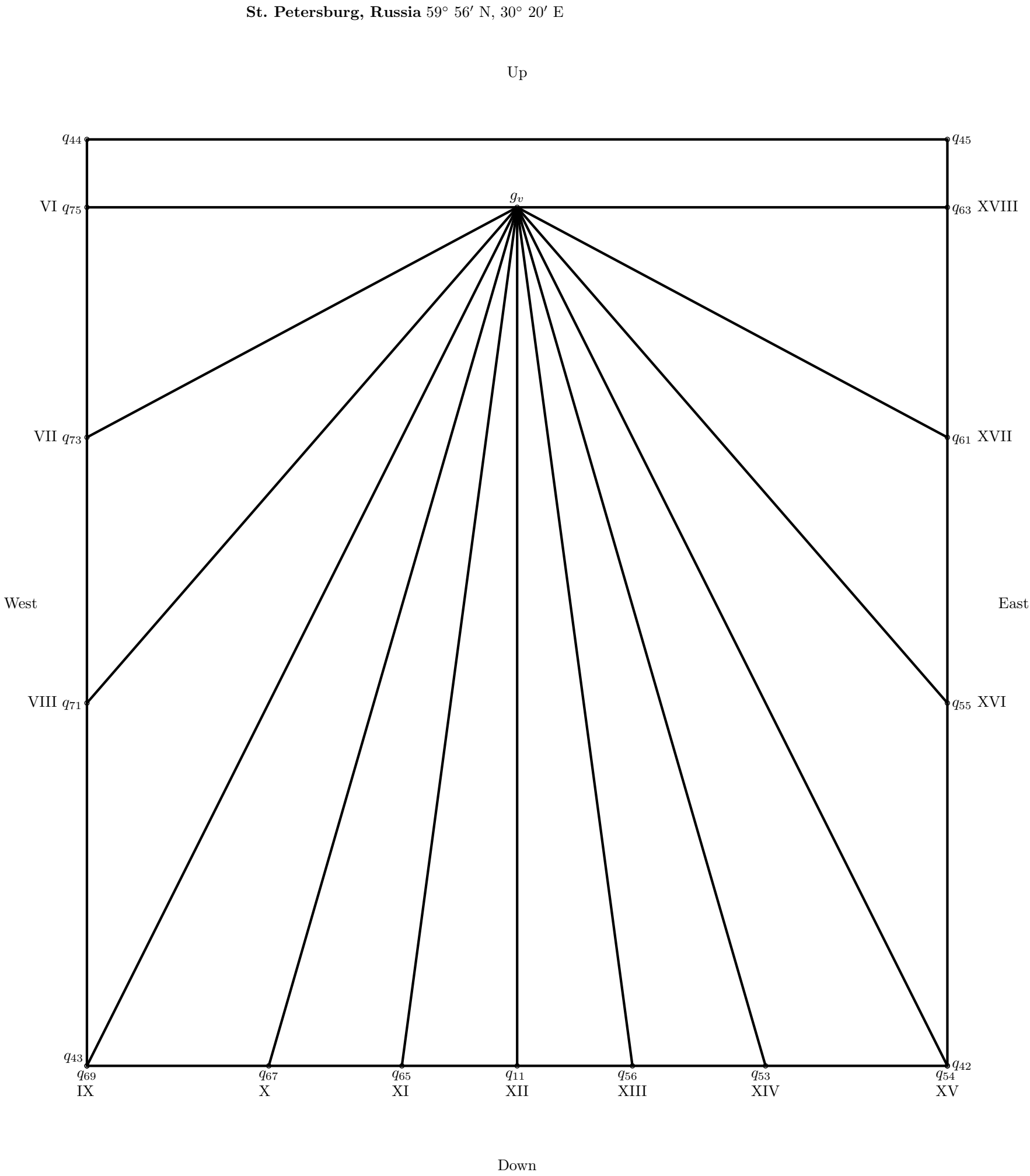
St. Petersburg, Russia 59° 56' N, 30° 20' E



## Perspective projection

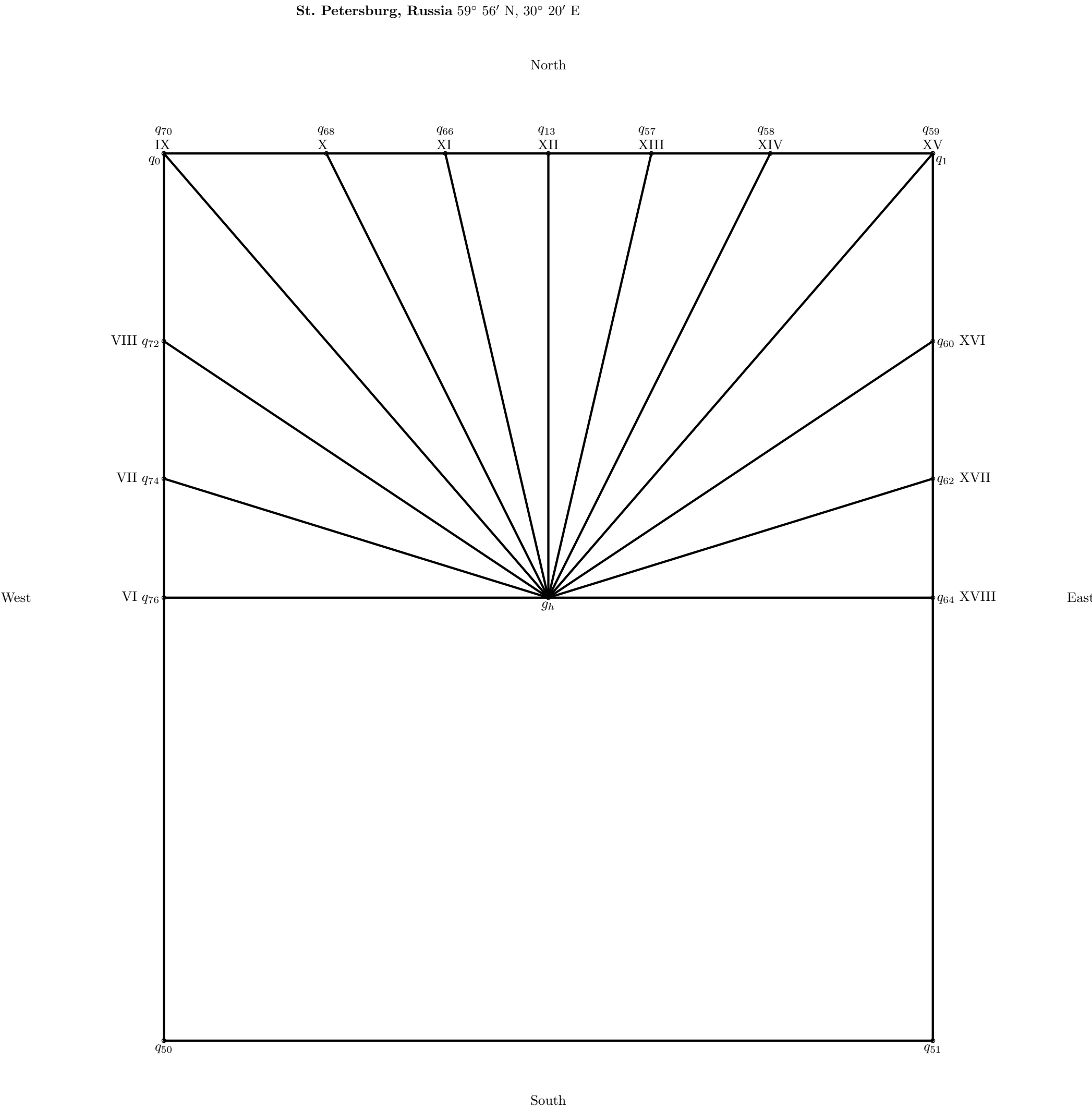
St. Petersburg, Russia 59° 56' N, 30° 20' E

Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10  
(dimensions in centimeters)



**Parallel projection onto the vertical plane** (plane of  $r_1$ )  
Vertical dial facing due south  
St. Petersburg, Russia 59° 56′ N, 30° 20′ E





**Parallel projection onto the horizontal plane** (plane of  $r_6$ ).  
Horizontal dial  
St. Petersburg, Russia 59° 56′ N, 30° 20′ E