

This document is part of GNU 3DLDF, a package for three-dimensional drawing.

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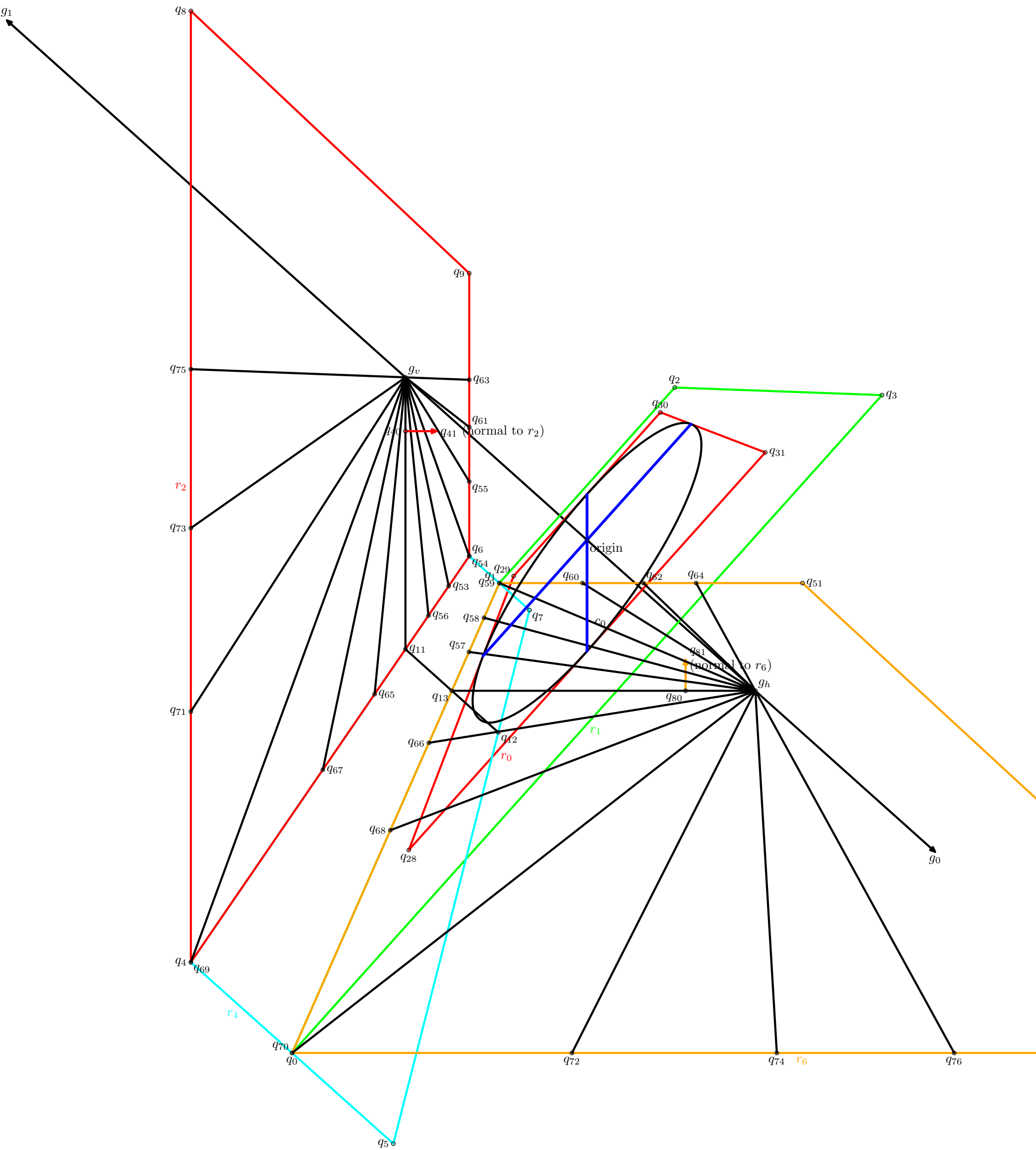
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The diagram illustrates a complex geometric structure with numerous points and connecting lines. The points are labeled with identifiers such as q_0 , q_1 , ..., q_{81} . Key features include:

- Central Hubs:** Points g_l and g_h serve as major convergence points for many black lines.
- Colored Paths:**
 - Red Path (r_0, r_2):** Connects points like $q_{78}, q_{79}, q_{63}, q_{55}, q_{61}, q_{41}, q_{54}, q_{29}, q_{59}, q_{53}, q_{56}, q_{58}, q_{57}, q_{11}, q_{65}, q_{67}, q_{68}, q_{28}, q_{69}, q_{70}, q_0$.
 - Green Path (r_1):** Connects points like $q_2, q_3, q_{30}, q_{31}, q_{60}, q_{62}, q_{64}, q_{51}, q_{81}, q_{80}, q_{72}, q_0$.
 - Cyan Path (r_4):** Connects points like q_4, q_{69}, q_{70}, q_5 .
 - Orange Path (r_6):** Connects points like $q_{60}, q_{62}, q_{64}, q_{51}, q_{81}, q_{80}, q_{72}, q_0$.
- Other Elements:**
 - A blue curve passing through points like $q_{54}, q_{29}, q_{59}, q_{53}, q_{56}, q_{58}, q_{57}, q_{11}, q_{65}, q_{67}, q_{68}, q_{28}, q_{69}, q_{70}, q_0$.
 - Points g_1 (top left) and g_l (center-left).
 - Point g_h (center-right) where multiple black lines converge.
 - Point "origin" located near the center.
 - Annotations: "(normal to r_2)" near q_{61} and "(normal to r_6)" near q_{81} .

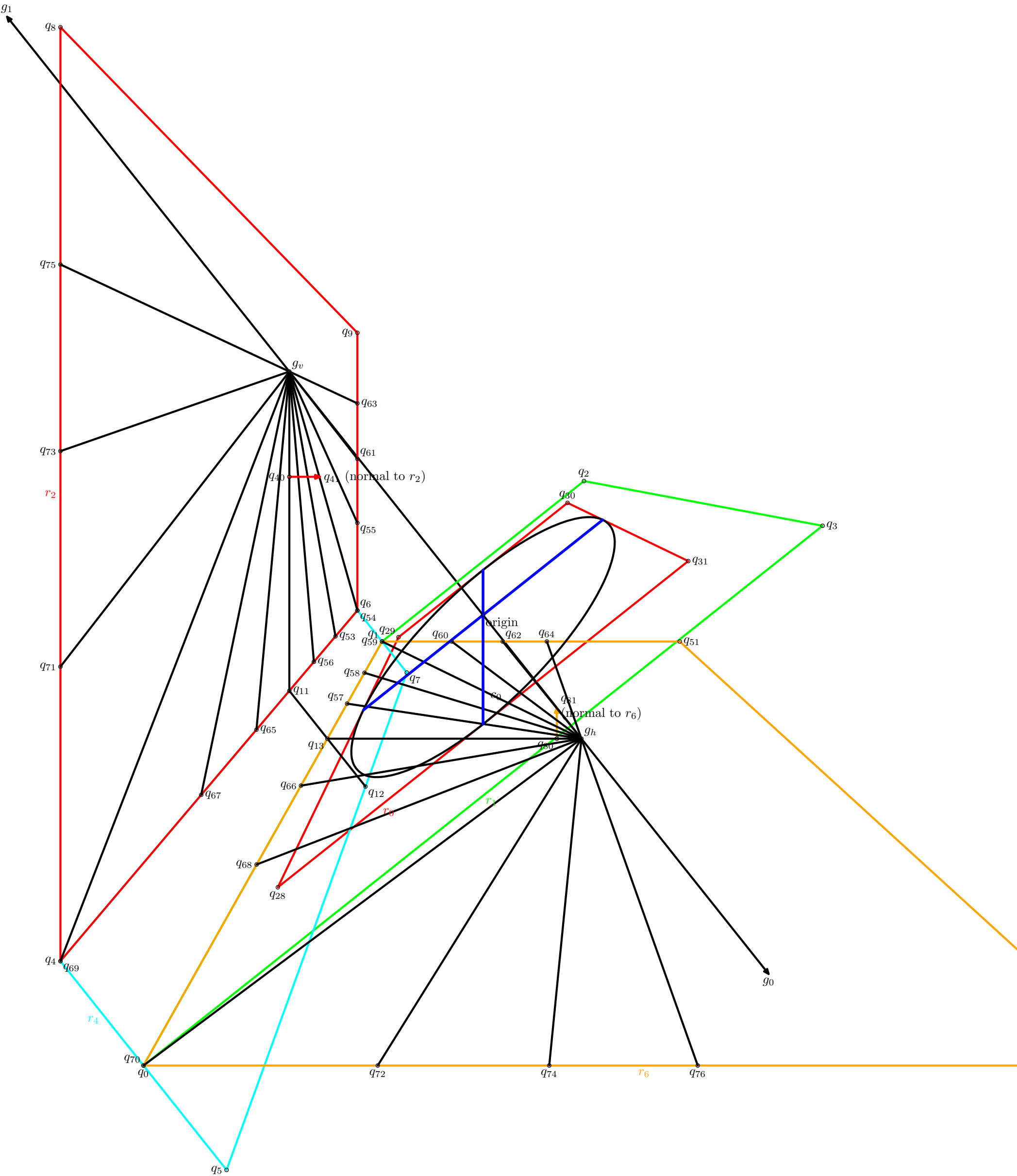
Jerusalem, Israel $31^{\circ} 47' \text{ N}$, $35^{\circ} 13' \text{ E}$
Focus: position = $(0, 5, -12)$, direction = $(0, 5, 10)$, distance = 10
(dimensions in centimeters)

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



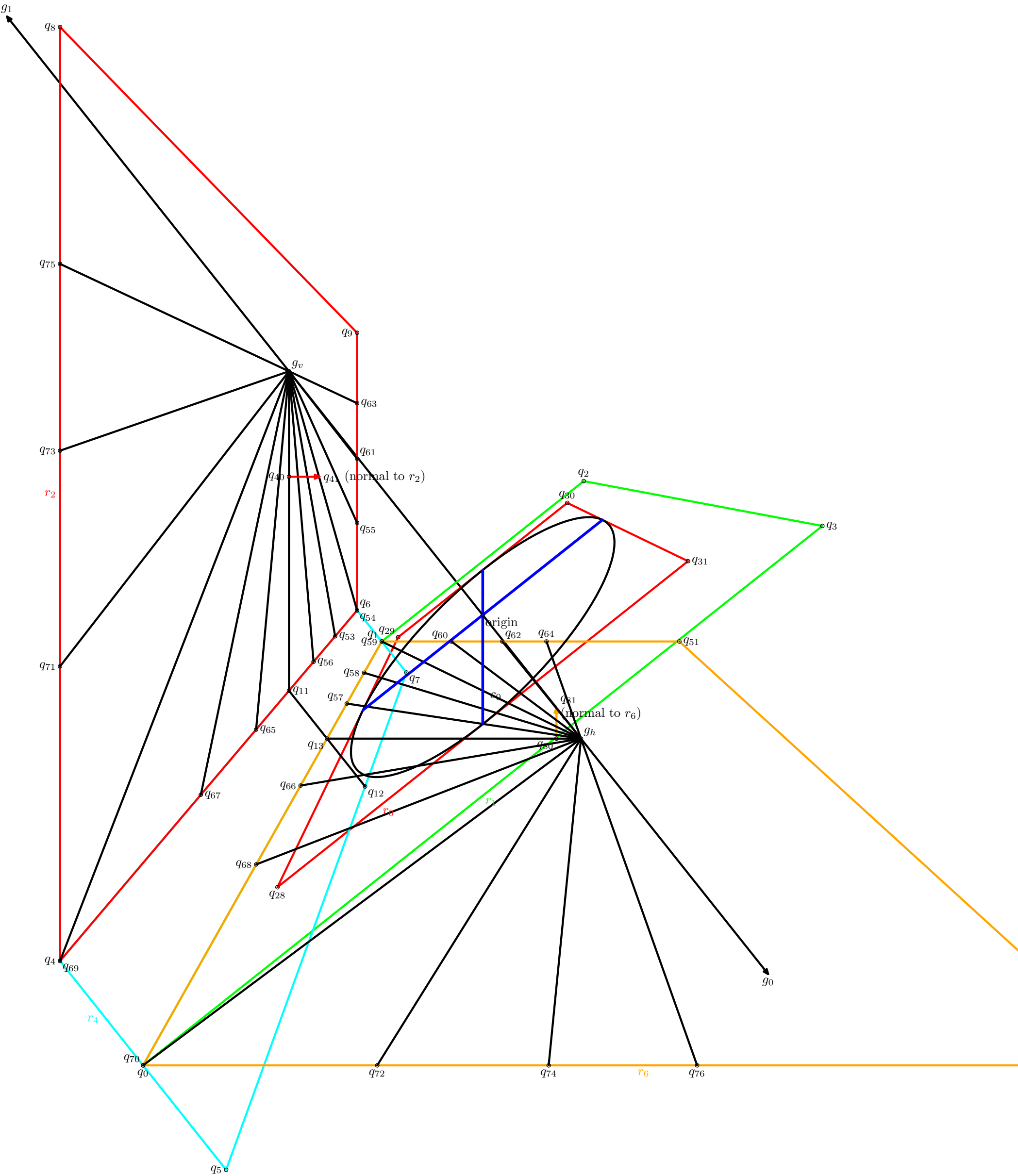
Perspective projection
Chicago, Illinois, USA 41° 52' 55'' N 87° 37' 40'' W
Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10
(dimensions in centimeters)

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

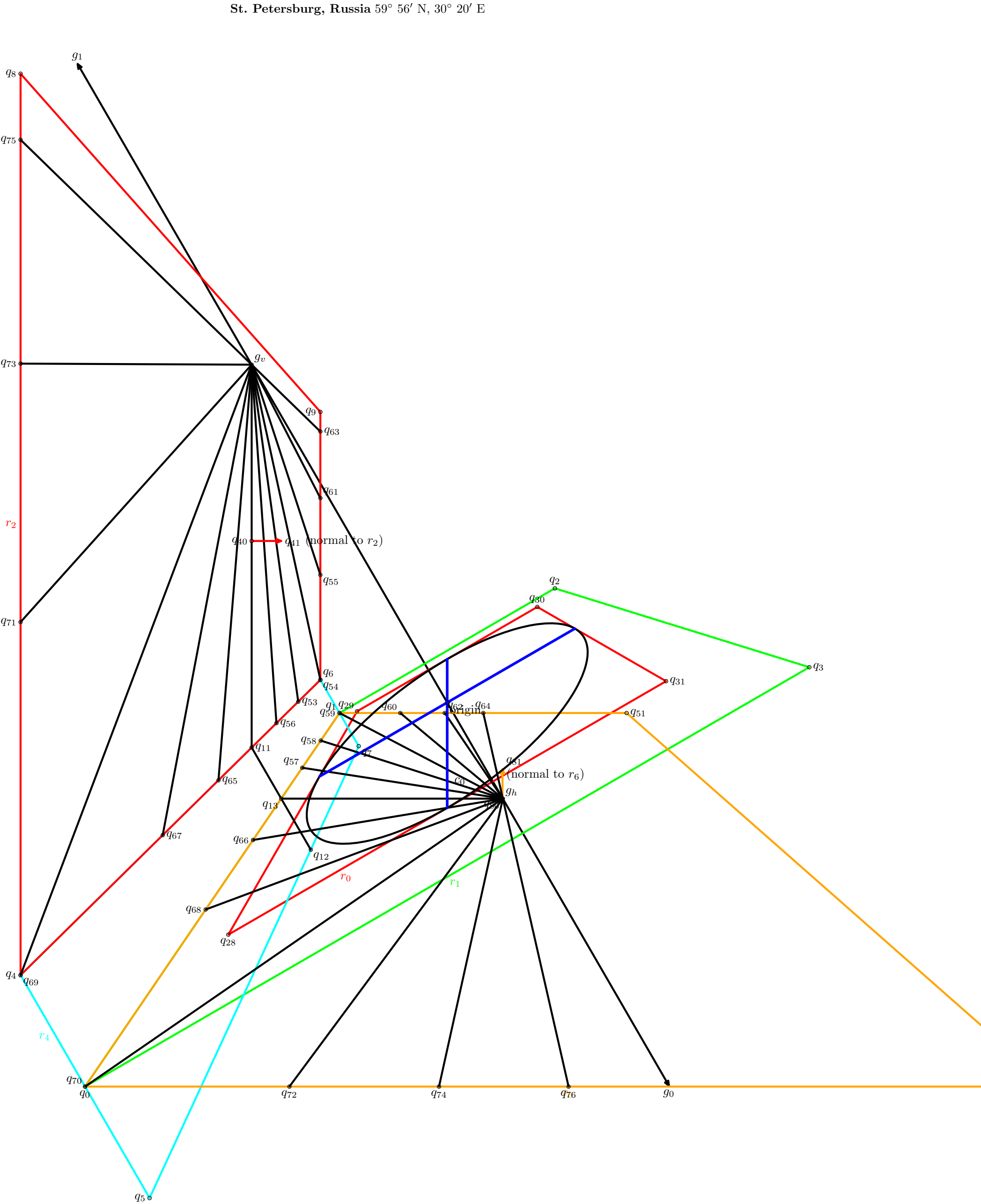


Perspective projection
Latitude 51° 30' 28'' N (London, UK)
Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10
(dimensions in centimeters)

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

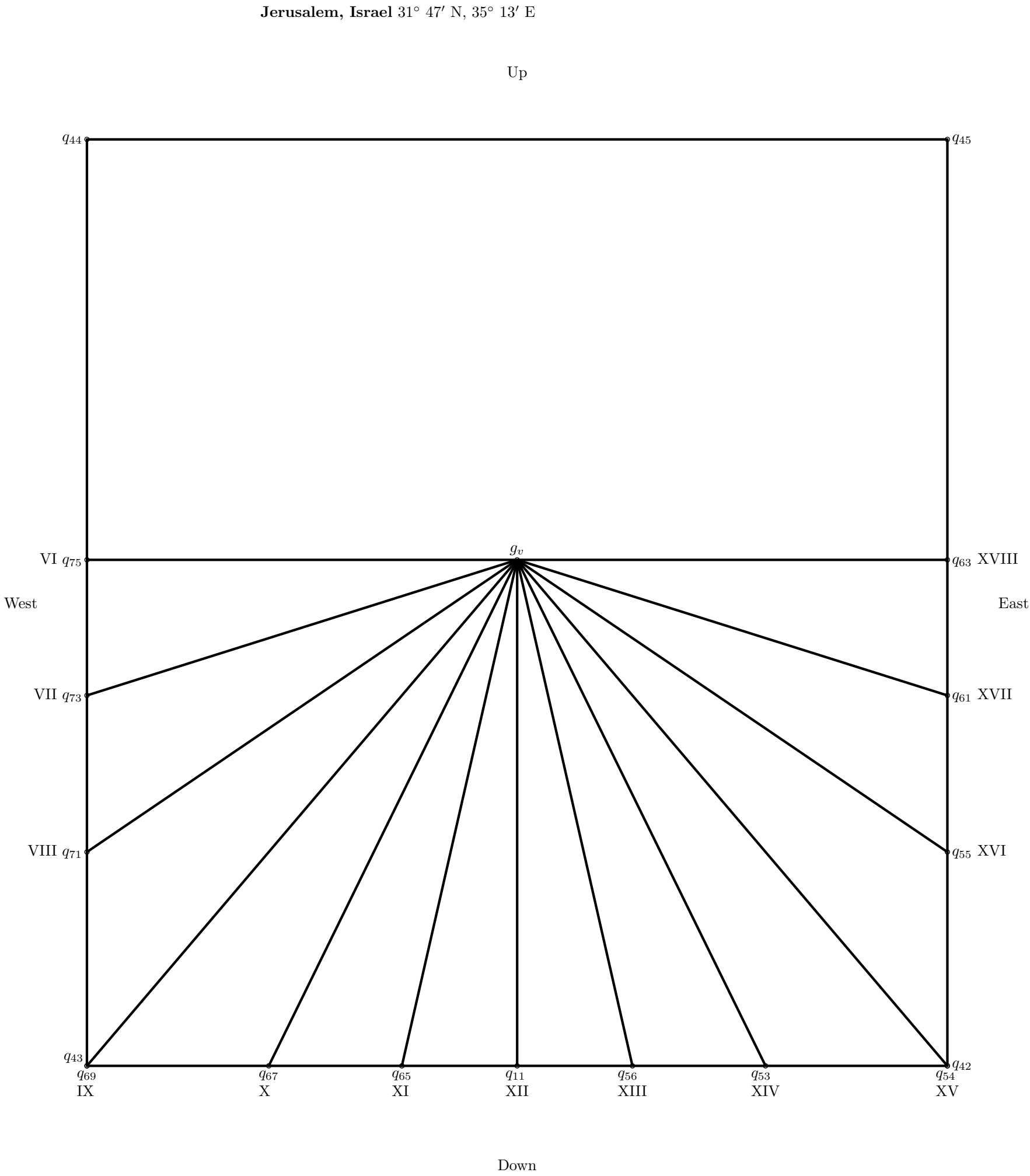


Perspective projection
Latitude 51° 32' N (Göttingen, Germany)
Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10
(dimensions in centimeters)

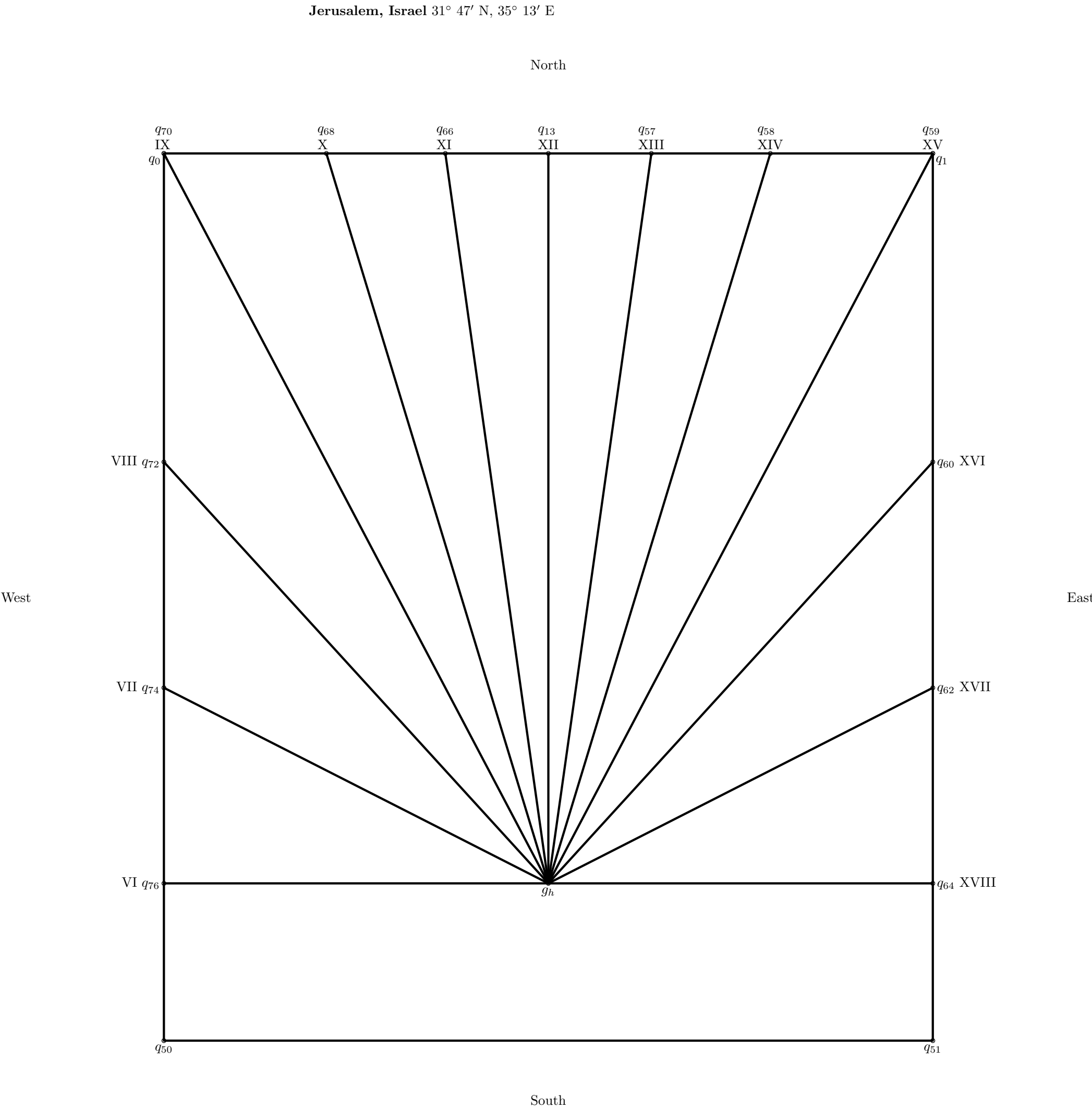


[illegible]

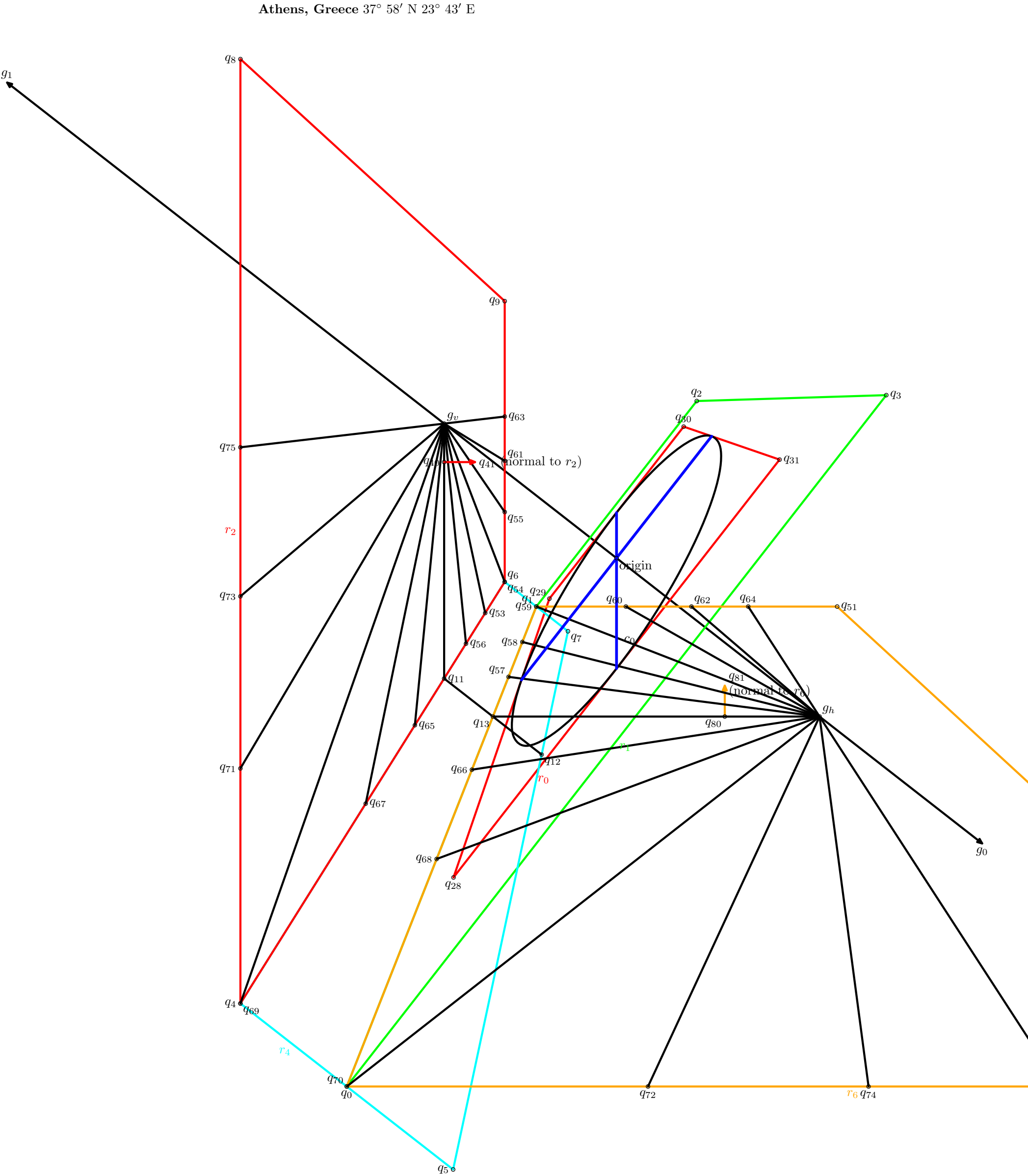
Jerusalem, Israel $31^{\circ} 47' \text{ N}$, $35^{\circ} 13' \text{ E}$
Focus: position = $(0, 5, -12)$, direction = $(0, 5, 10)$, distance = 10
(dimensions in centimeters)



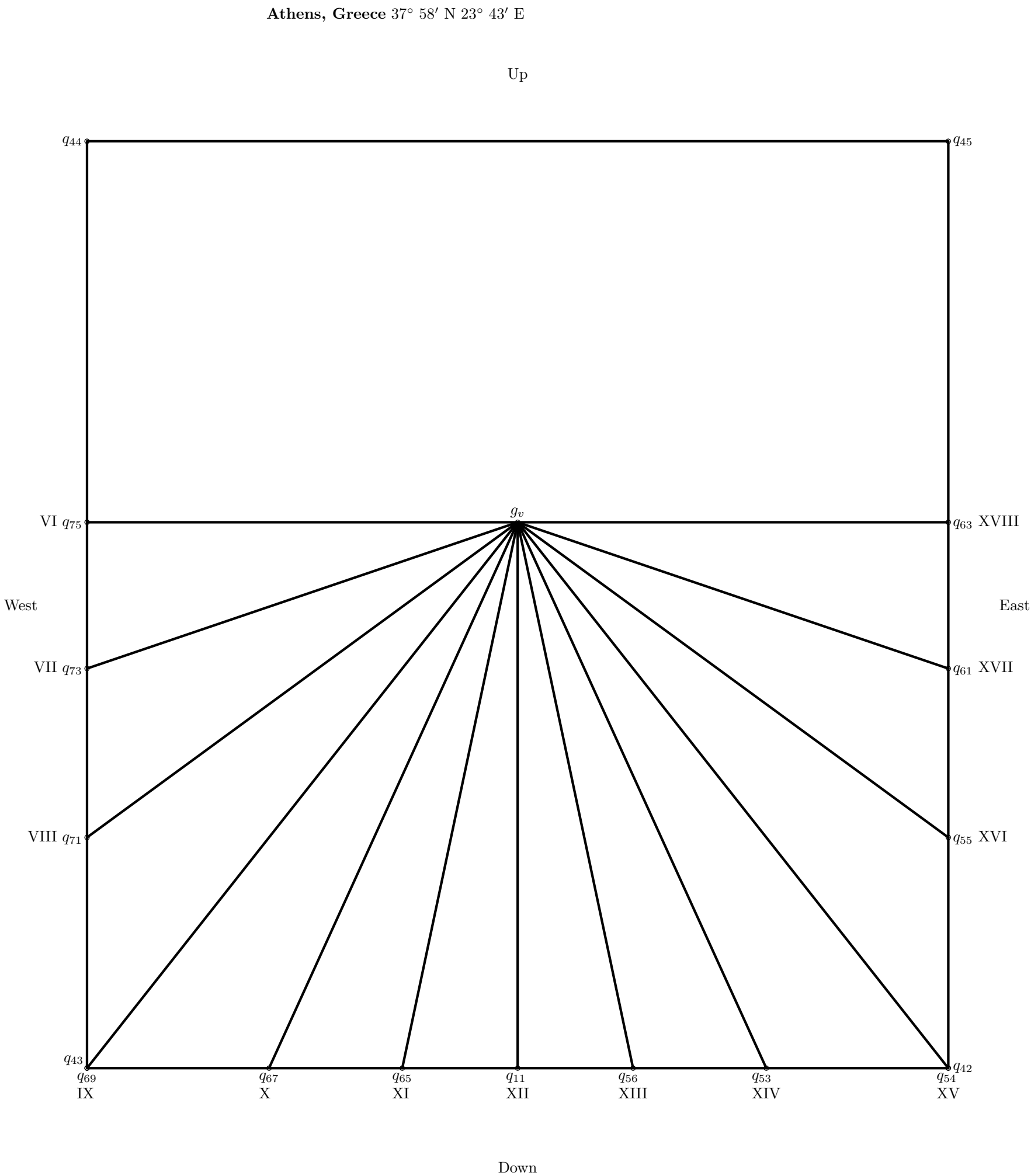
Parallel projection onto the vertical plane (plane of r_1)
Vertical dial facing due south
Jerusalem, Israel 31° 47' N, 35° 13' E



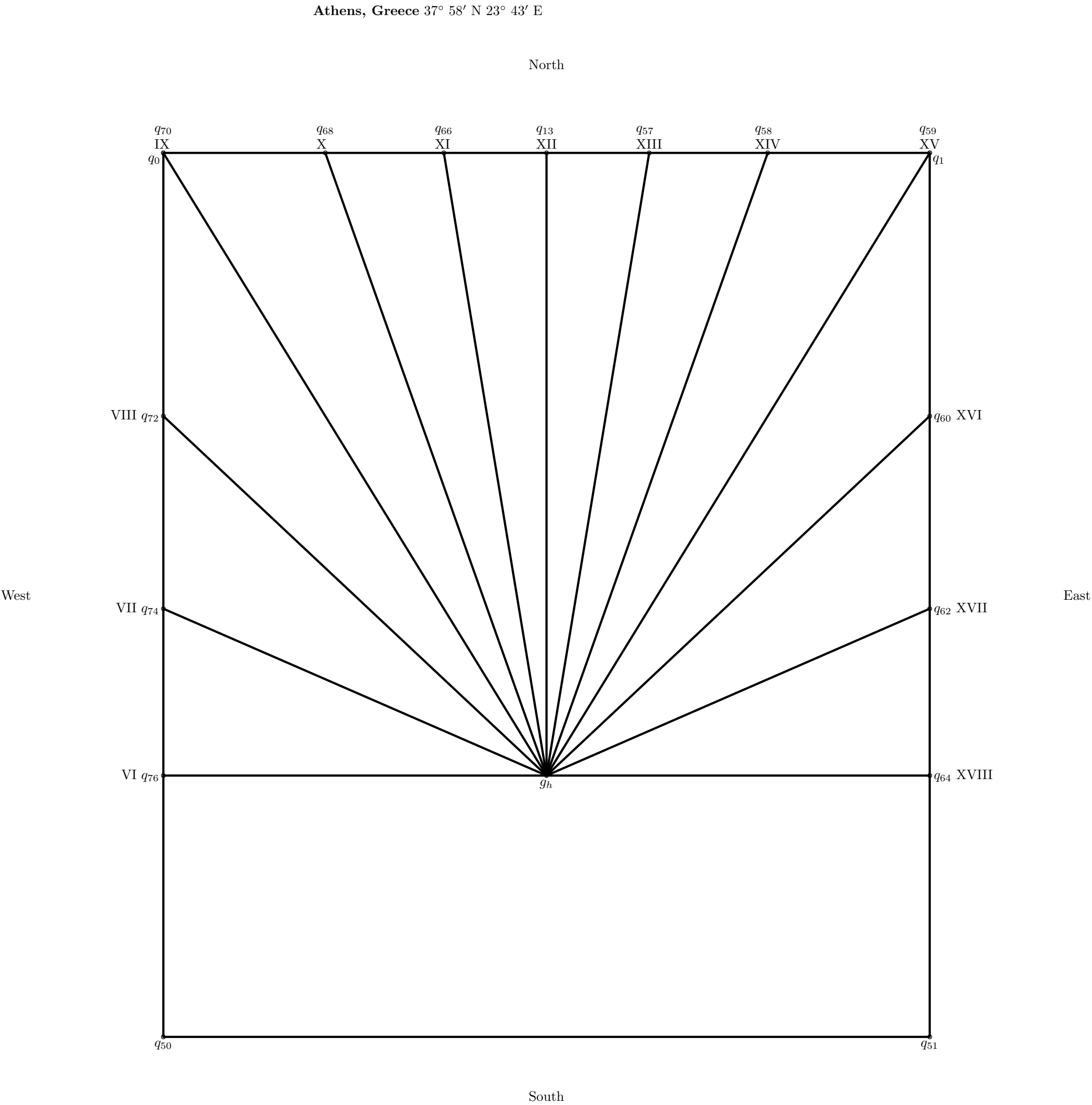
Parallel projection onto the horizontal plane (plane of r_6)
Horizontal dial
Jerusalem, Israel 31° 47' N, 35° 13' E



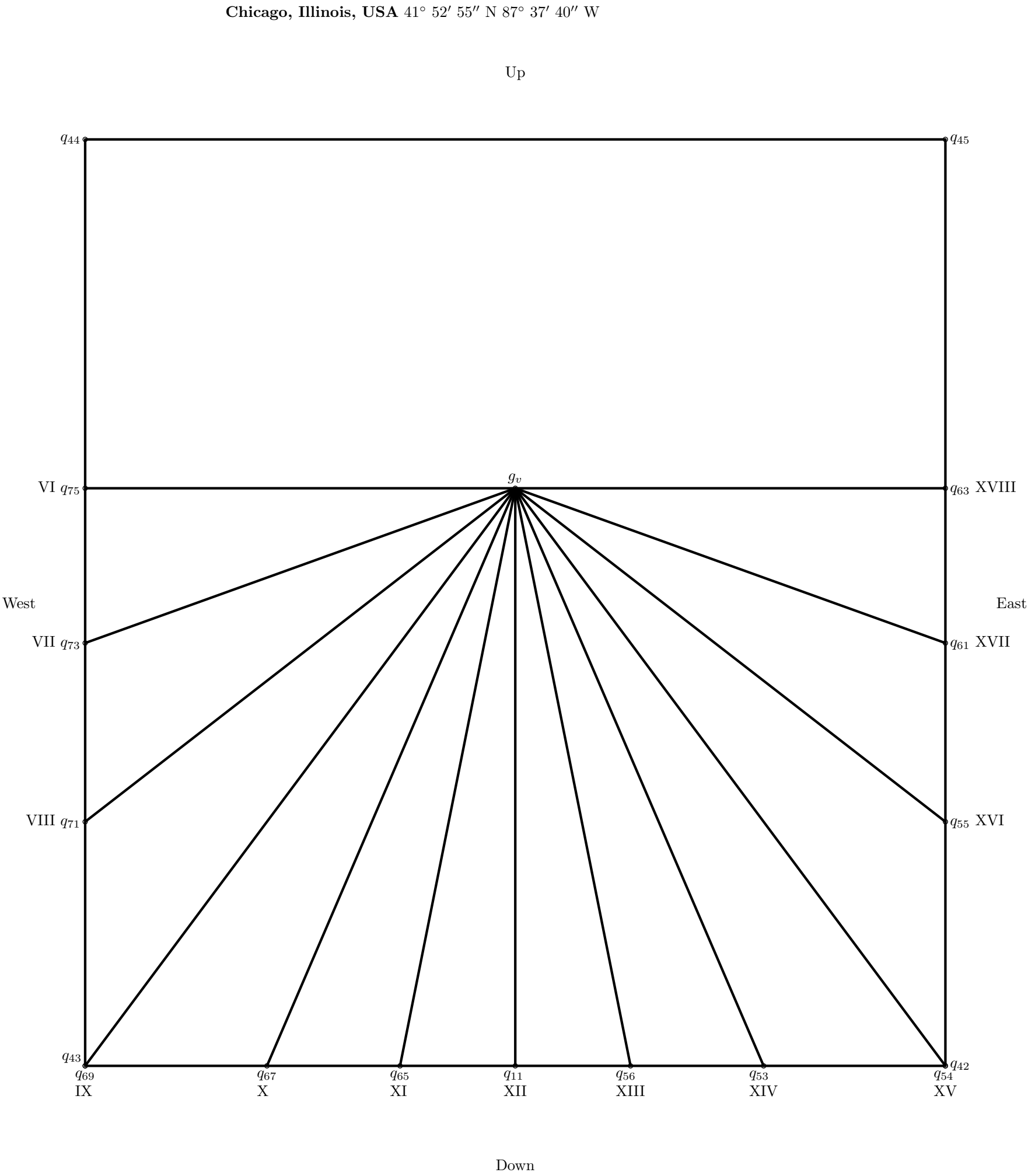
Perspective projection
Latitude 41° 54' N (Athens, Greece)
Focus: position = (0, 5, -12), direction = (0, 5, 10), distance = 10
(dimensions in centimeters)



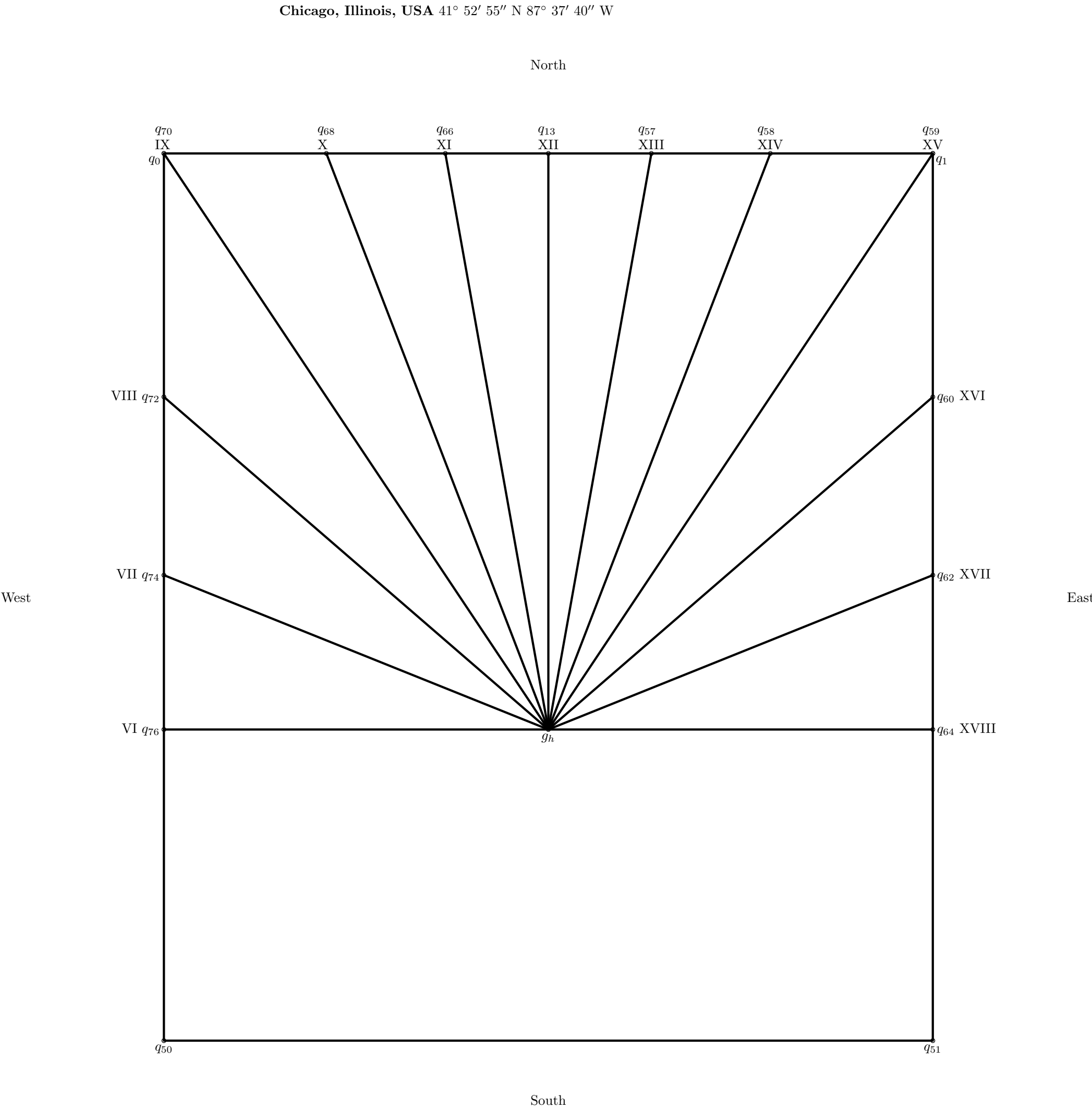
Parallel projection onto the vertical plane (plane of r_1)
Vertical dial facing due south
Latitude 41° 54' N (Athens, Greece)



Parallel projection onto the horizontal plane (plane of r_6)
Horizontal dial
Latitude 41° 54' N (Athens, Greece)

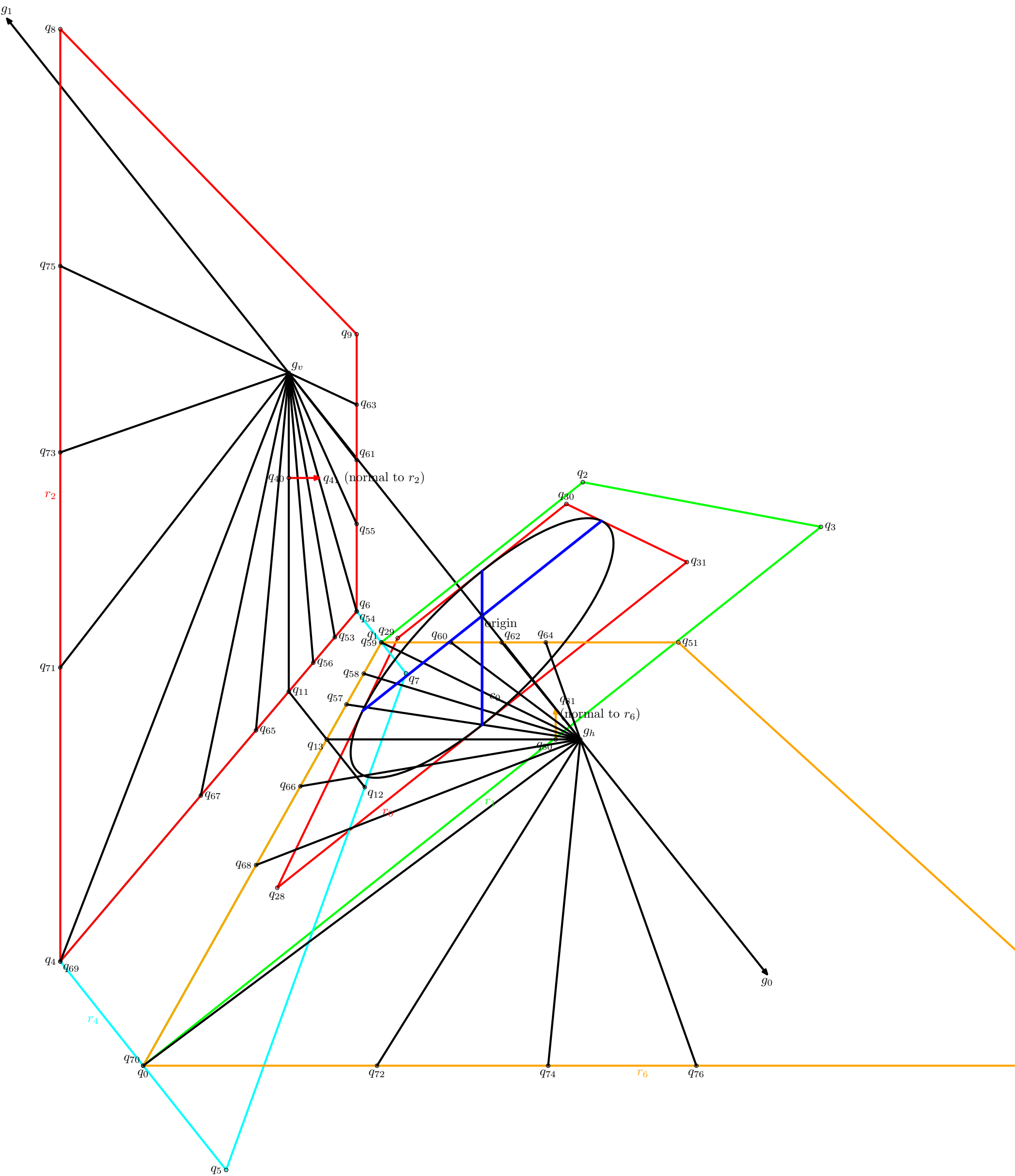


Parallel projection onto the vertical plane (plane of r_1)
Vertical dial facing due south
Chicago, Illinois, USA 41° 52' 55" N 87° 37' 40" W

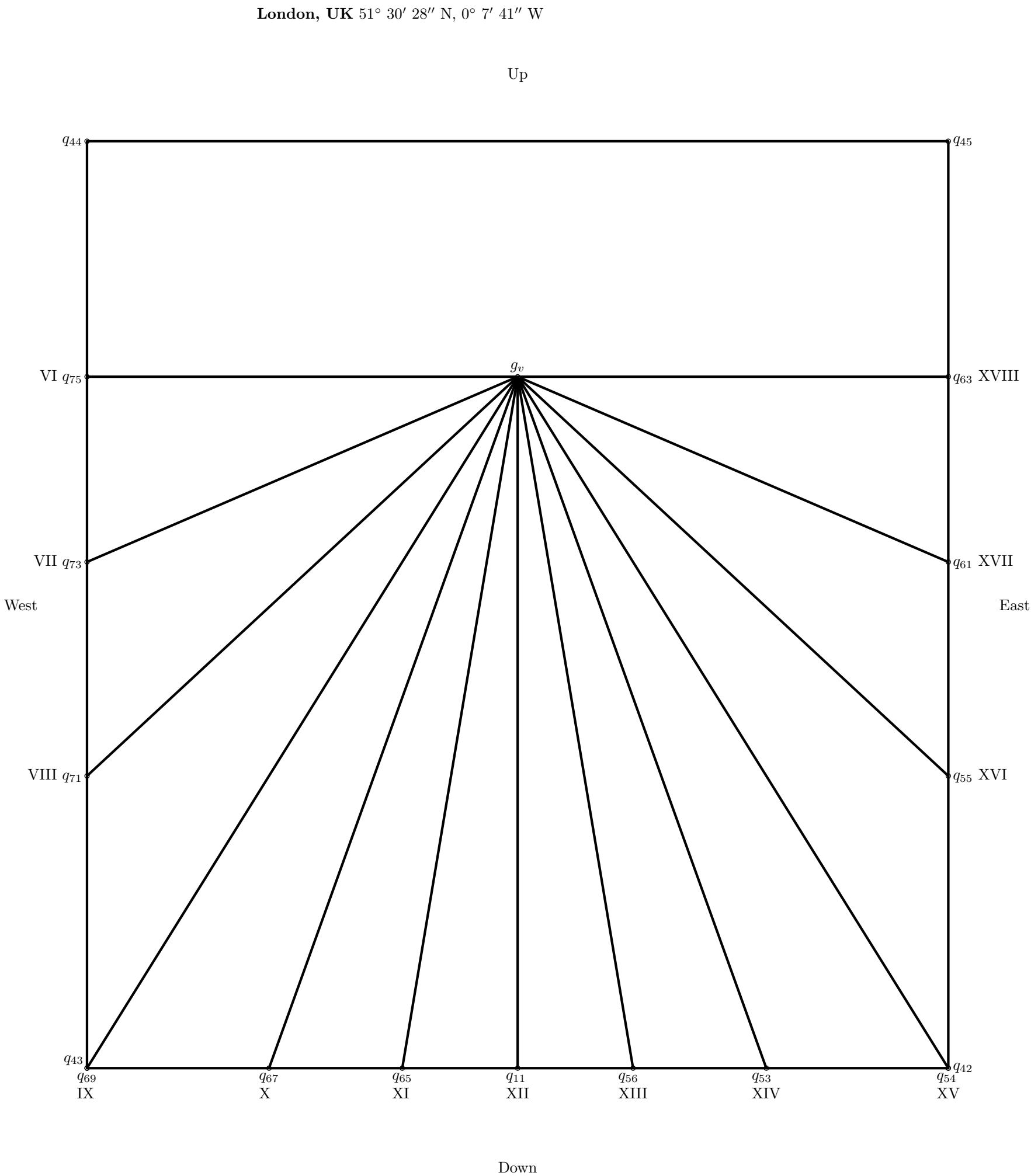


Parallel projection onto the horizontal plane (plane of r_6)
Horizontal dial
Chicago, Illinois, USA 41° 52' 55" N 87° 37' 40" W

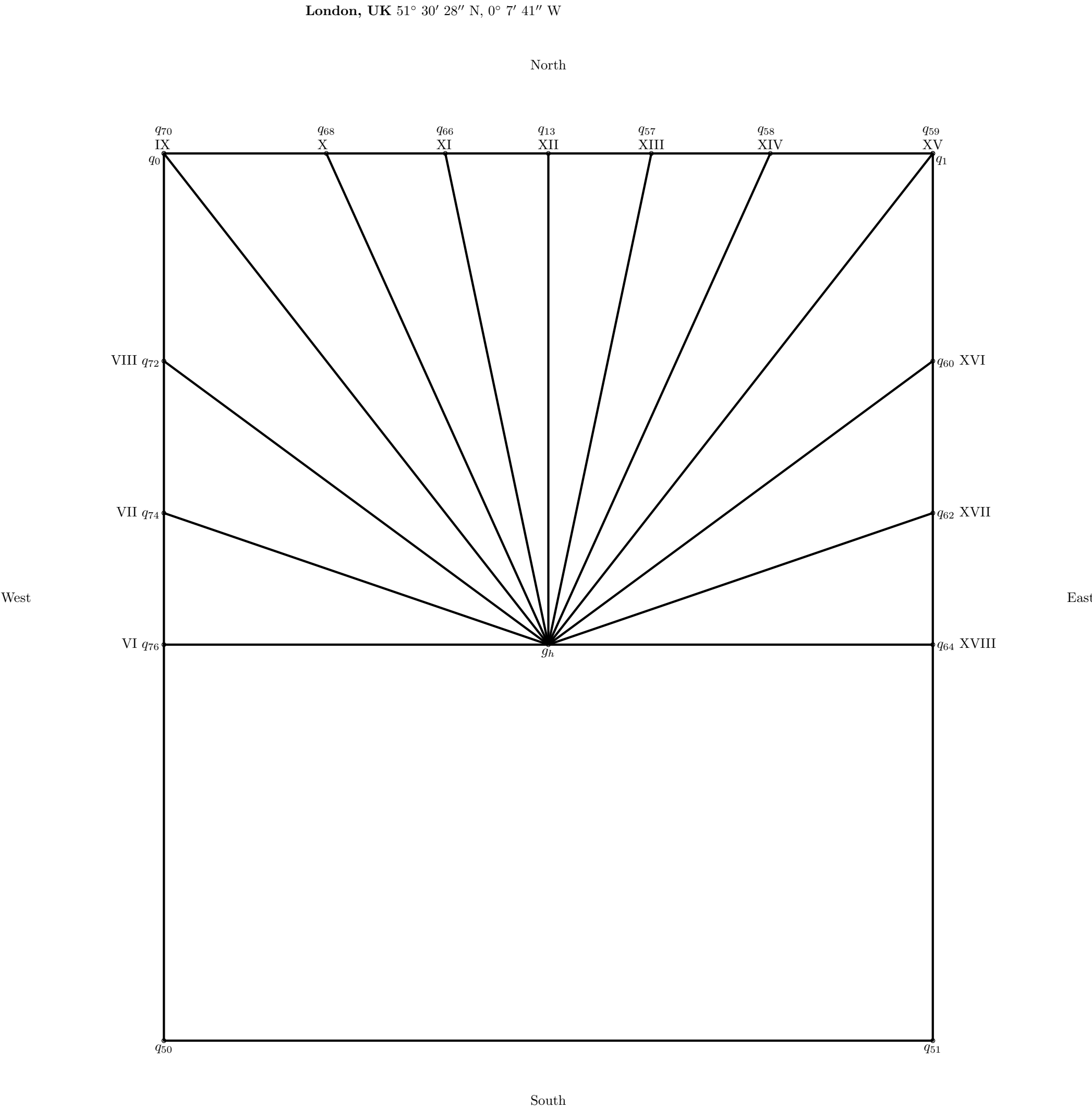
London, UK 51° 30' 28'' N, 0° 7' 41'' W



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

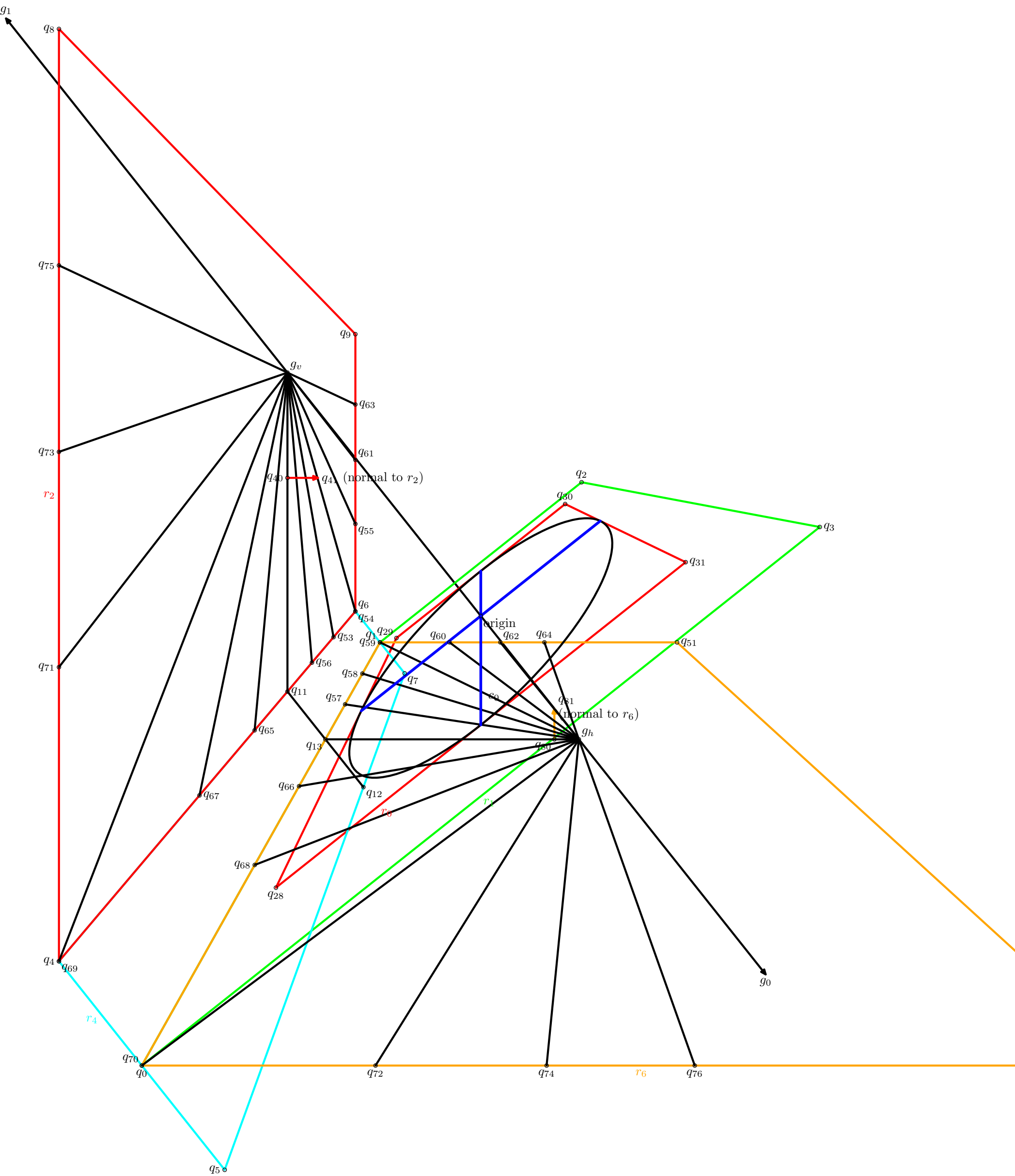


Parallel projection onto the vertical plane (plane of r_1)
Vertical dial facing due south
Latitude 51° 30′ 28″ N (London, UK)

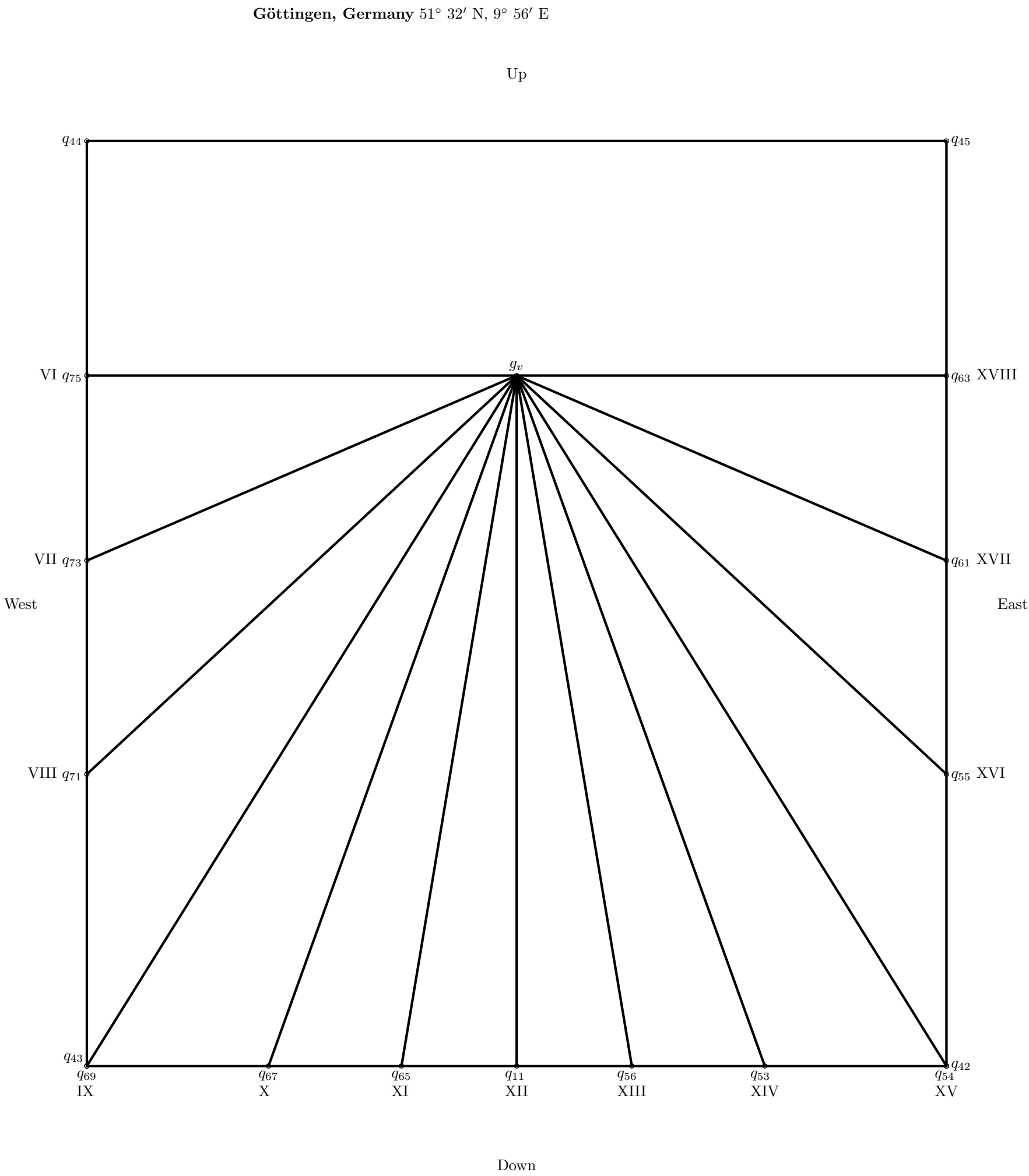


Parallel projection onto the horizontal plane (plane of r_6)
Horizontal dial
Latitude 51° 30' 28" N (London, UK)

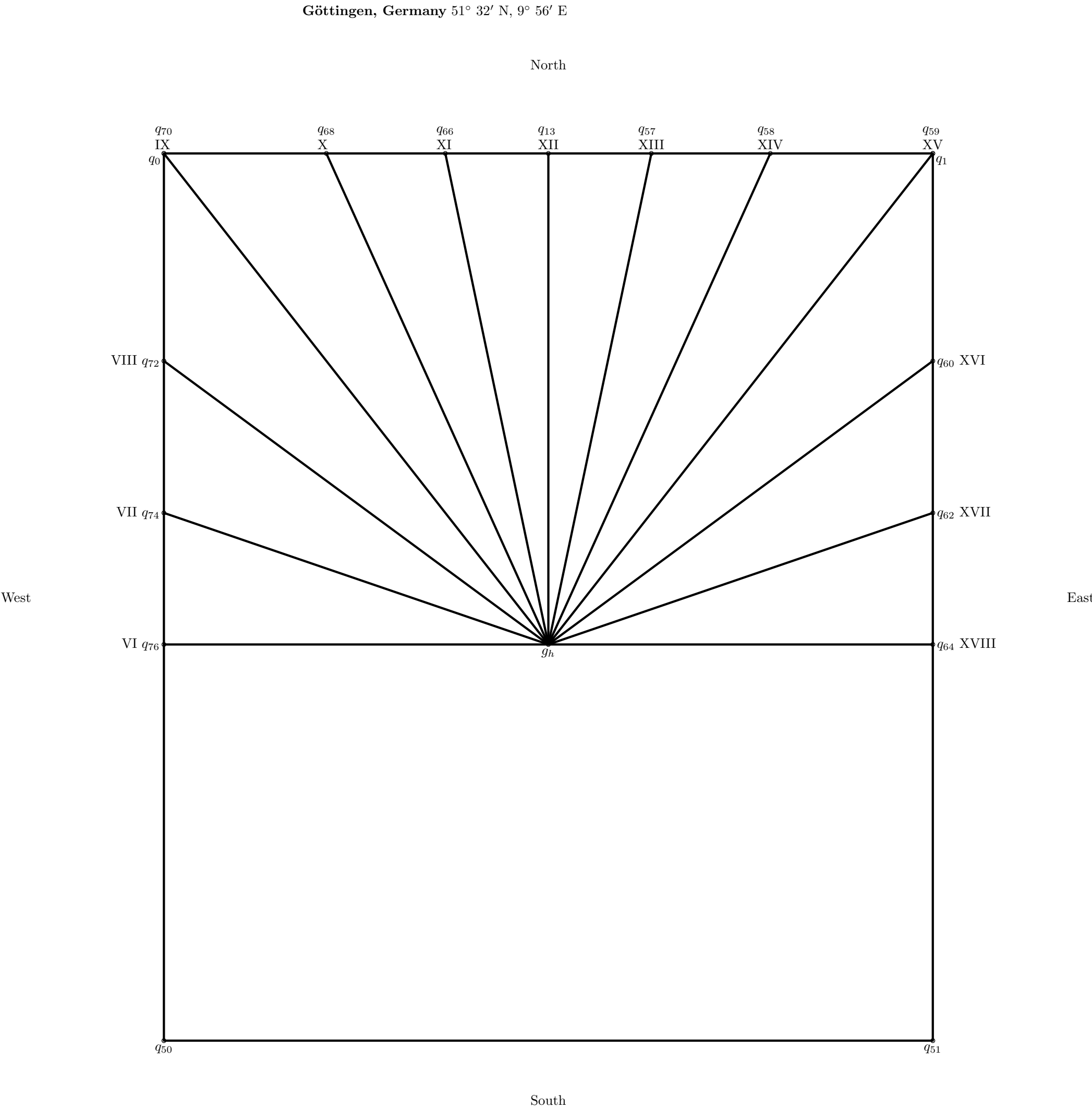
Göttingen, Germany 51° 32' N, 9° 56' E



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

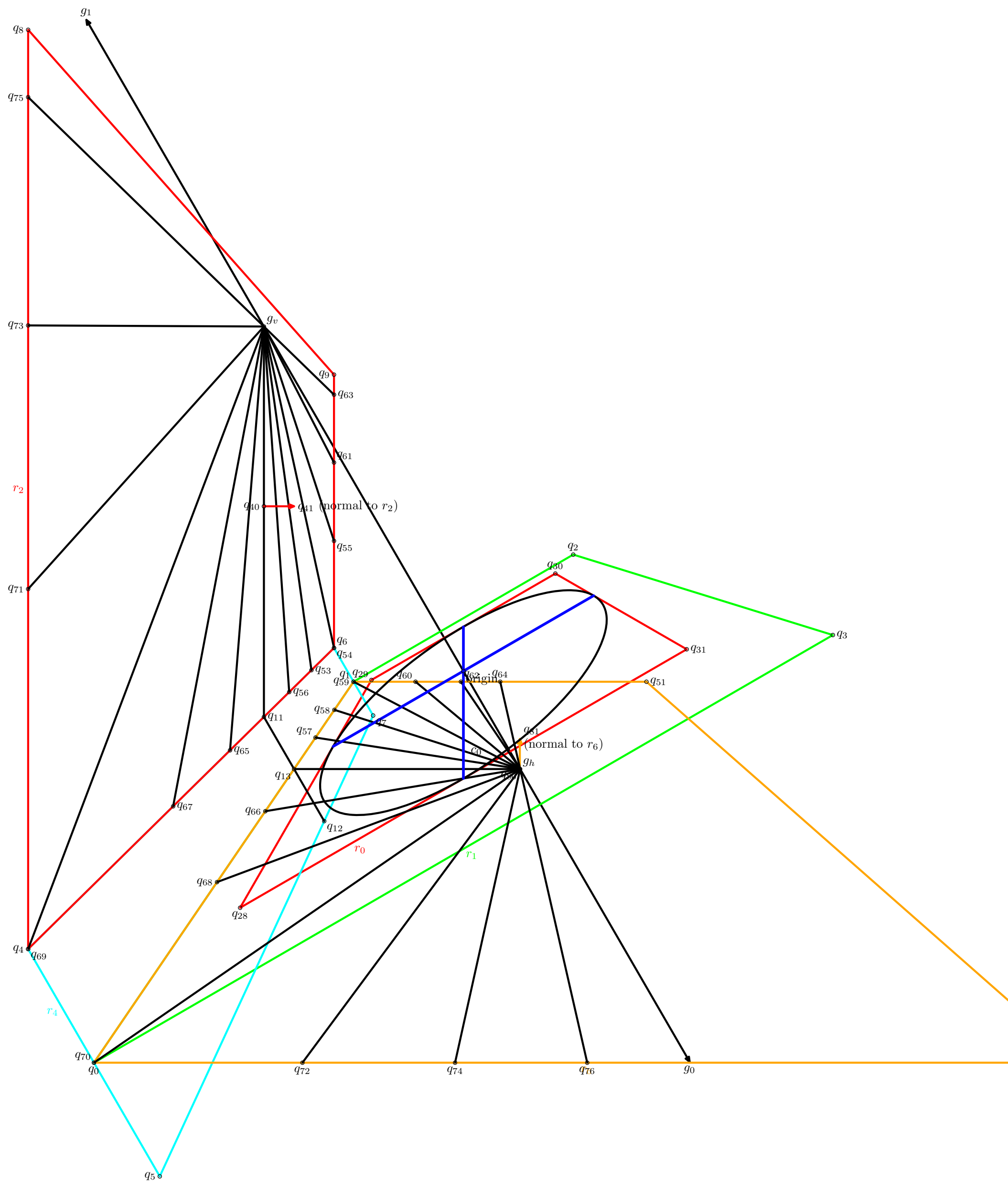


Parallel projection onto the vertical plane (plane of r_1)
Vertical dial facing due south
Latitude 51° 32' N (Göttingen, Germany)



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

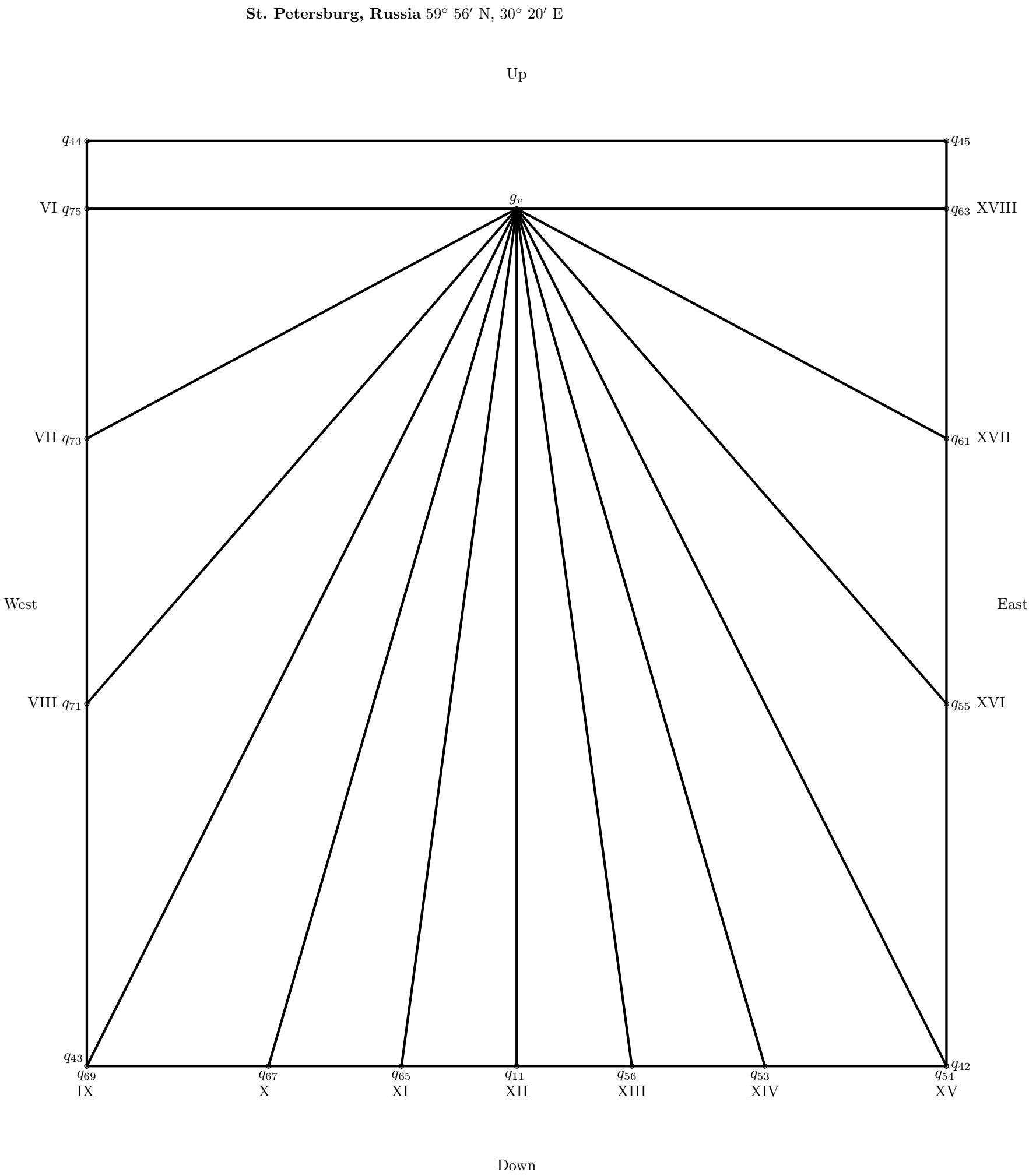
St. Petersburg, Russia 59° 56' N, 30° 20' E



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

