

10 and 20 feet, which is nearly equal to a fall in temperature of one degree per foot of depth. Reference has elsewhere been made to the large range and rapid fall of temperature observed in Lochs Monzievaird, Achilty, and Dubh,\* and the temperatures here given from Loch na Beinne Bàine afford another instance for comparison.

*Loch Lungard* (see Plate LXXXII).—Loch Lungard (or Longart, or Glasletter) lies at the head of Glen Cannich, about 5 miles to the north of Loch Affric. It trends east and west, and is  $1\frac{1}{2}$  miles in length, with a maximum breadth towards the west end of one-third of a mile, whence the loch narrows gradually towards the east. The superficial area is about 216 acres, or one-third of a square mile, and the area draining into it is nearly 23 square miles. The maximum depth of 129 feet was observed in a central position, but towards the east end. The volume of water is estimated at 599 million cubic feet, and the mean depth at nearly 64 feet. The loch was surveyed on October 7, 1903, when the elevation of the lake-surface above the sea was found, by levelling from bench-mark, to be 761·3 feet, which is nearly identical with the level observed by the Ordnance Survey officers on October 14, 1867, viz. 761·2 feet. When surveyed the water was about its normal level, and in floods might rise about 3 feet.

Loch Lungard is extremely simple in conformation, the bottom sloping down on all sides towards the deepest part, not the slightest irregularity being indicated by the soundings, while the contour-lines coincide approximately with the outline of the loch. This is shown in both the longitudinal section A-B and the cross-section C-D on the map. The 50-foot basin is  $1\frac{1}{4}$  miles, and the 100-foot basin rather under a mile, in length, and they are comparatively wide, so that the loch is of a flat-bottomed character, as is shown by the following table, giving the areas and percentages between the contour-lines:—

0 to 50 feet	87 acres	40 per cent.
50 ,, 100 ,,	81 ,,	38 ,,
Over 100 ,,	48 ,,	22 ,,
	<u>216</u> ,,	<u>100</u> ,,

*Temperature Observations*—The following series of temperatures, taken at 2 p.m. on the date of the survey in the deepest part of the loch, indicates a range of only 1°·2 Fahr. throughout the body of water:—

Surface . . . . .	49°·2 Fahr.
25 feet .. . . .	49°·0 ,,
50 ,, . . . . .	48°·8 ,,
125 ,, . . . . .	48°·0 ,,

\* See p. 276.