Observation:

Results show that Classic Coca-Cola had **1.36RI**, **the highest refractive index amount; 3.38 g of sugar** concentration, **39.4 cm** for **X** and **84.2 cm** for **L** measurements; and **25.2** for the minimum deviation (**θmd**).
Classic Pepsi-Cola, on other hand, had **1.35RI; 3.33 g** of sugar concentration, **39 cm** for **X** and **84 cm** for **L** measurements; and **25** for the minimum deviation.
Subsequently, both Diet Coca-Cola and Pepsi-Cola had **1.34RI**; **0 g** of sugar concentration, **37 cm** for X and **83 cm** for L measurements; and **24** for the minimum deviation.

According to Table 2, the **prism** filled with **Classic Coca-Cola** had the **highest number** of refractive index, sugar concentration, X and L measurement, and minimum deviation (θmd)**,** with the **prism** filled with **Classic Pepsi-Cola** having the **second** most of the amounts.
Subsequently, both prisms filled with Diet Coca-Cola and Pepsi-Cola had the same level of number of refractive index, sugar concentration, X and L measurement, and minimum deviation, with both having the least amounts. Compared to the control variables air and water, the four experimental variables proved to be greater in amount.

Conclusion:

We therefore conclude that Coca-Cola Classic had the highest amount of sugar concentration, with the Classic Pepsi-Cola having the second highest amount.

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