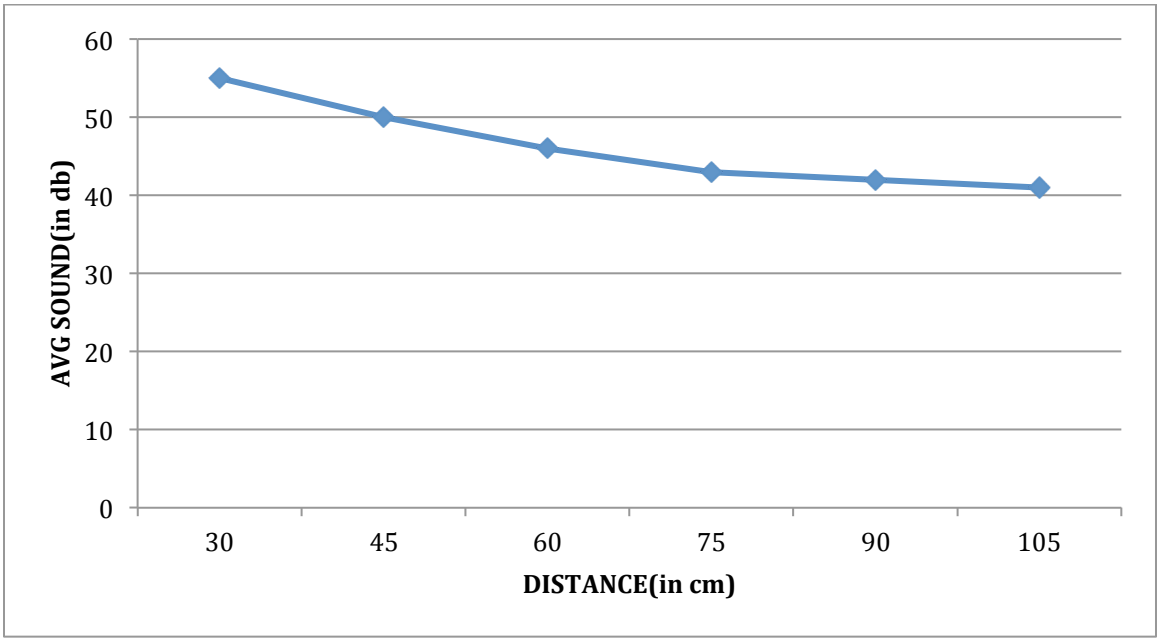
Results:

Table 1: Result shown in table are noted values of sound range and Average Sound in dB with distance from transmitter to a single Receiver.

Distance(cm)	Sound Range(dB)	Average Sound(dB)
30	51-60	55
45	45-56	50
60	42-50	46
75	40-45	43
90	39-44	42
105	39-42	41

Graph 1 : Shows the Interpretation of results between Average Sound in db with distance in cm.

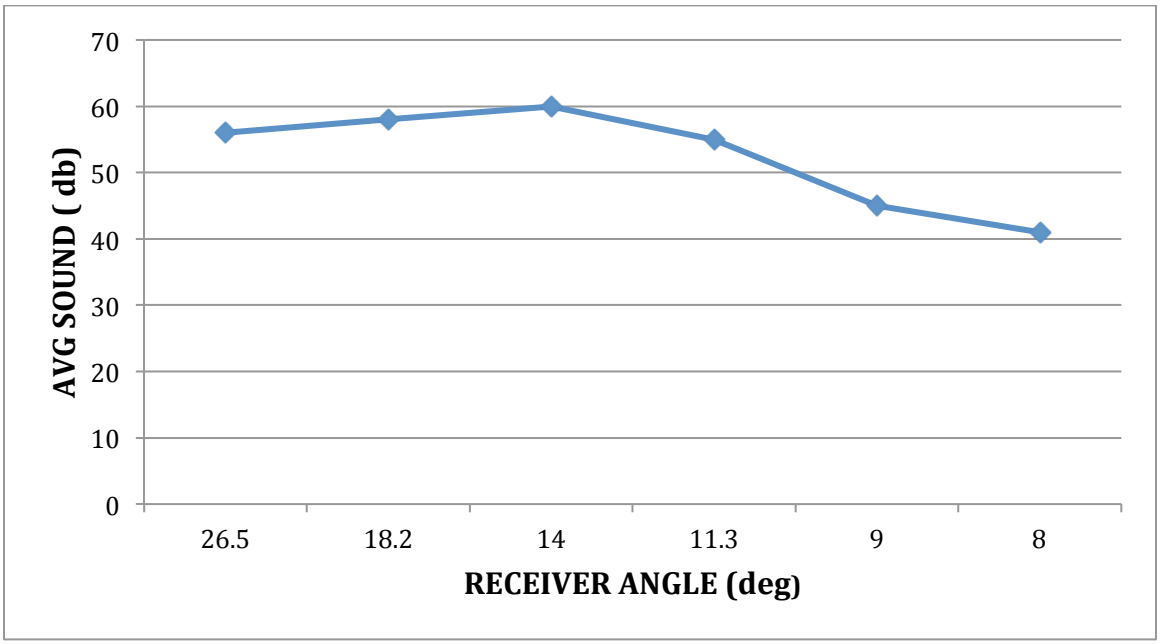


- As the distance is increased the intensity of the sound decrease exponentially.
- After certain distance (90cm) intensity of the sound remains constant.
- The experimentation result defines the maximum distance achievable of this VLC communication system is 70 cm.

Table 2: Result shown in table are noted values of sound range and Average Sound in dB with angle between LOS and other receivers.

Reciever Angle from LOS(deg)	Sound Range(dB)	Average Sound(dB)
26.5	52-60	56
18.2	51-68	58
14.0	53-75	60
11.3	50-61	55
9.00	40-50	45
8.00	39-43	41

Graph 2: Shown are Interpretation of results between Sound Intensity in db with receiver angle



- The above graph shows the variation of the sound intensity according to the change in angle between the receiver and LOS.
- Here, distance between the transmitter and the receiver remains constant.
- The experimentation result defines the suitable angle deviation from LOS is 15 deg.