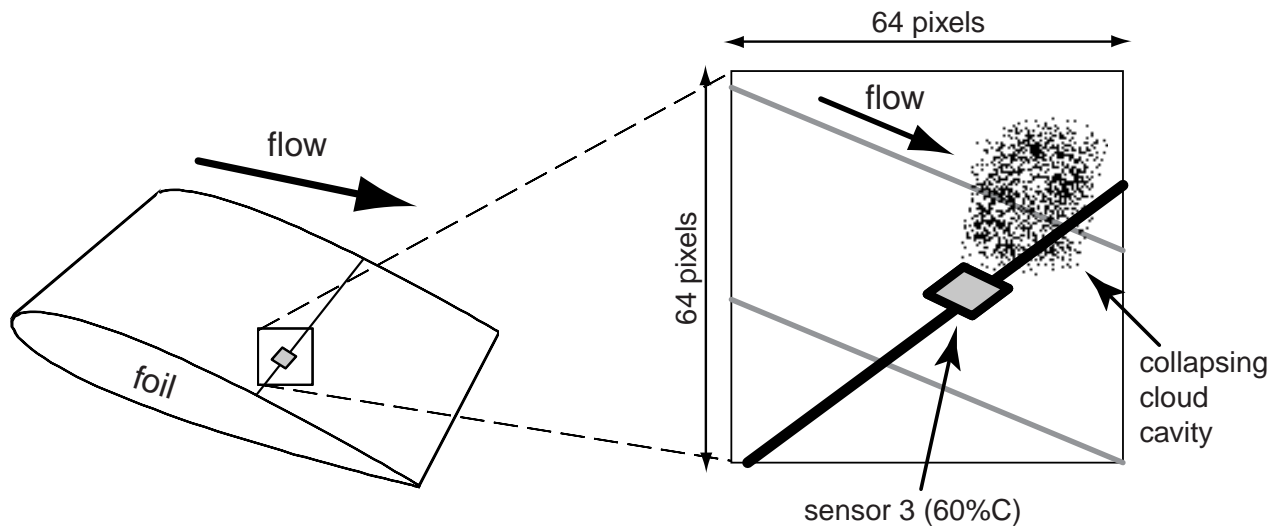


付録C 高速度ビデオカメラによる衝撃力発生の際の映像と、発生する衝撃力

第II部にて説明したように、高速度ビデオカメラと衝撃力センサにより、キャビティ気泡群の崩壊時の挙動と、崩壊時に発生する衝撃力とを同時に計測した。高速度ビデオカメラによる映像を次ページ以降の Fig. C.1 に示す。映像に対応する衝撃力、およびこれらの映像を解析した結果については、付録D (155 ページ以降) に載せる。

実験の詳細は、第II部の第11章で説明しているのので、ここでは実験条件のみを示す。実験には NACA 0015 翼模型を用い、迎角 8° 、流速 8 m/sec. 、キャビテーション数 $\sigma_B = 1.5$ の条件下で行った。この条件では周期的なクラウドキャビテーションが発生する。キャビテーション全体の様子は第11章で説明している。



(Same figure of Fig. 11.5)

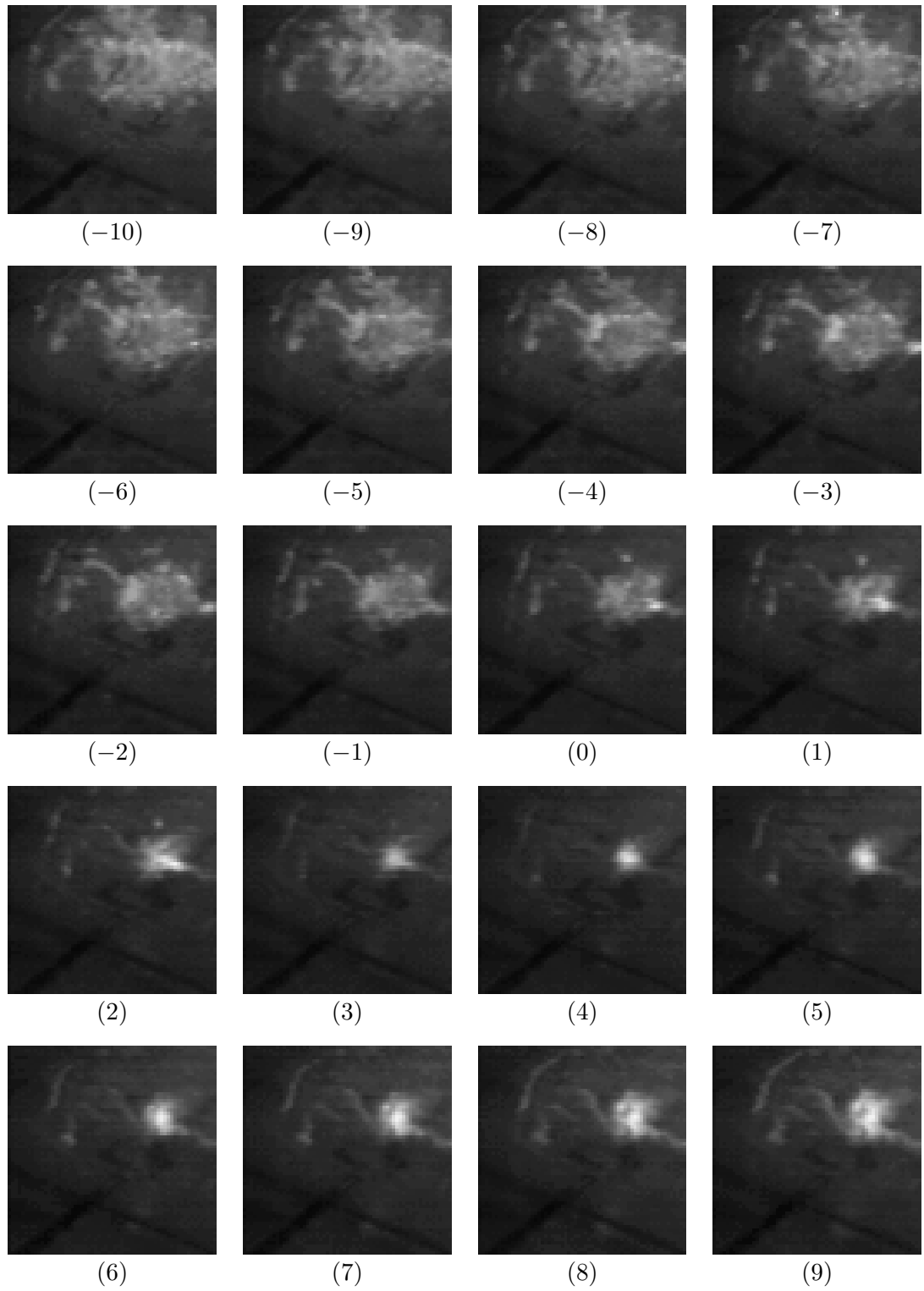


Fig. C.1: Sequences of bird's-eye pictures by high-speed video camera at the time when impulsive forces were measured (No.1)

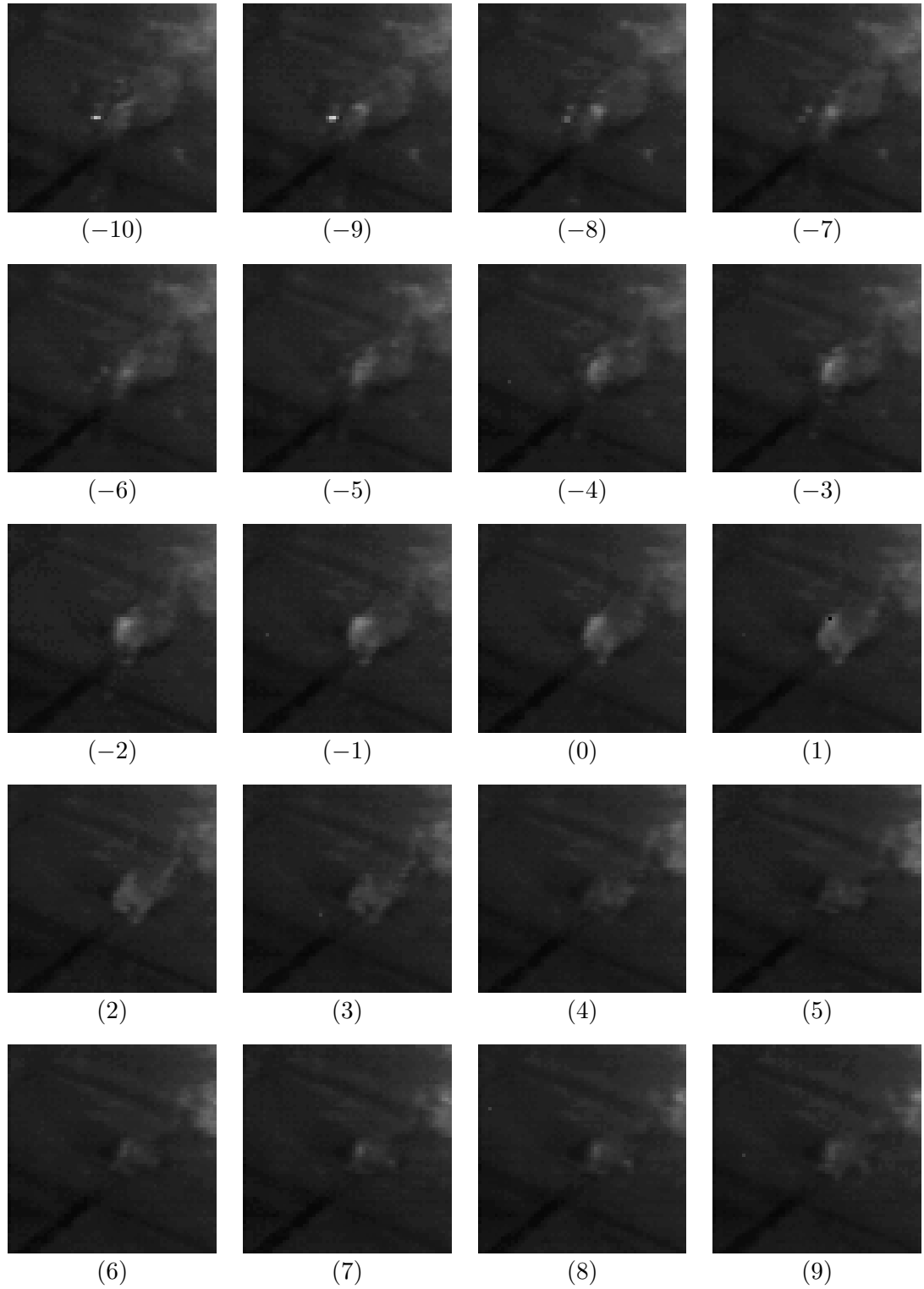


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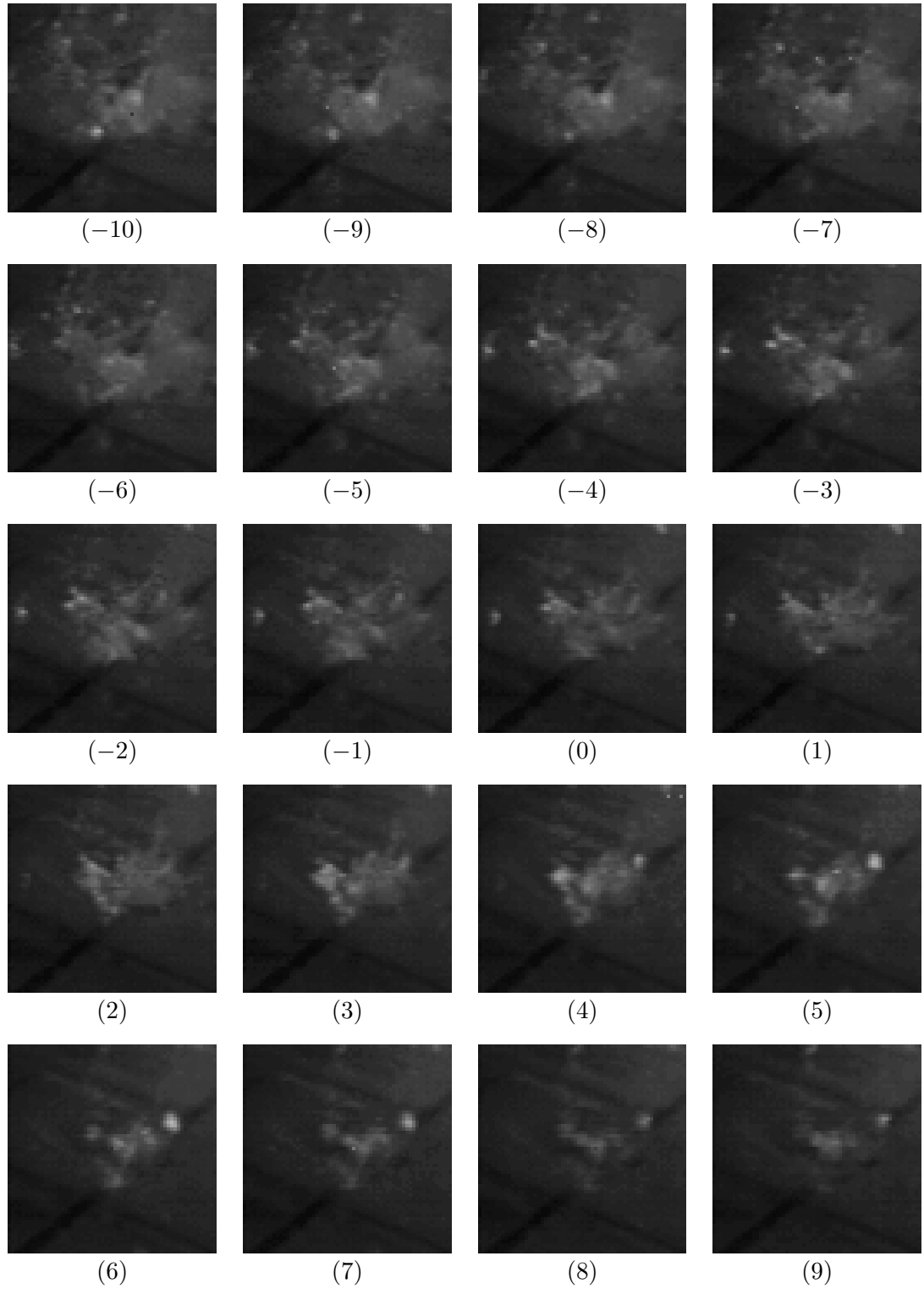


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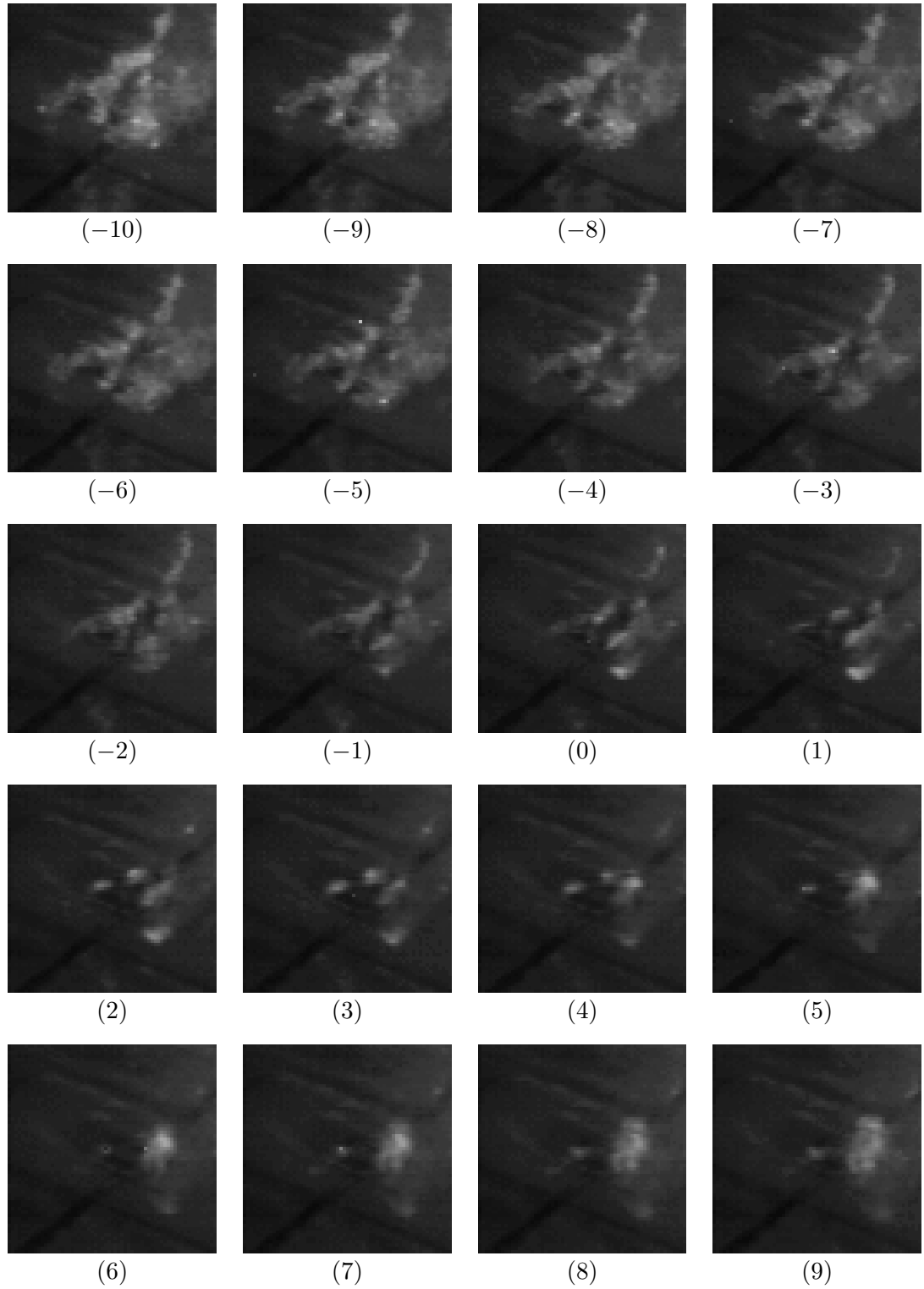


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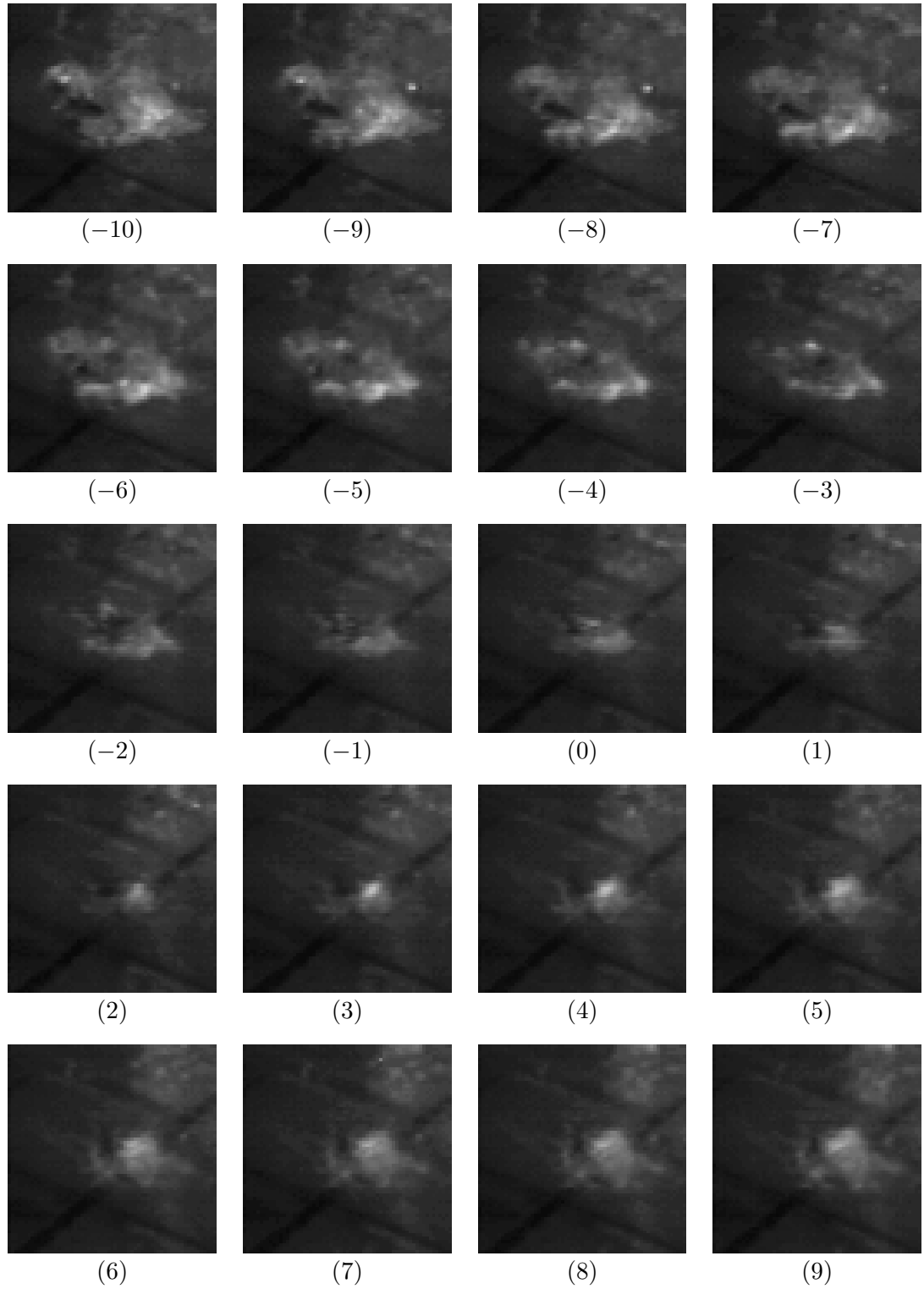


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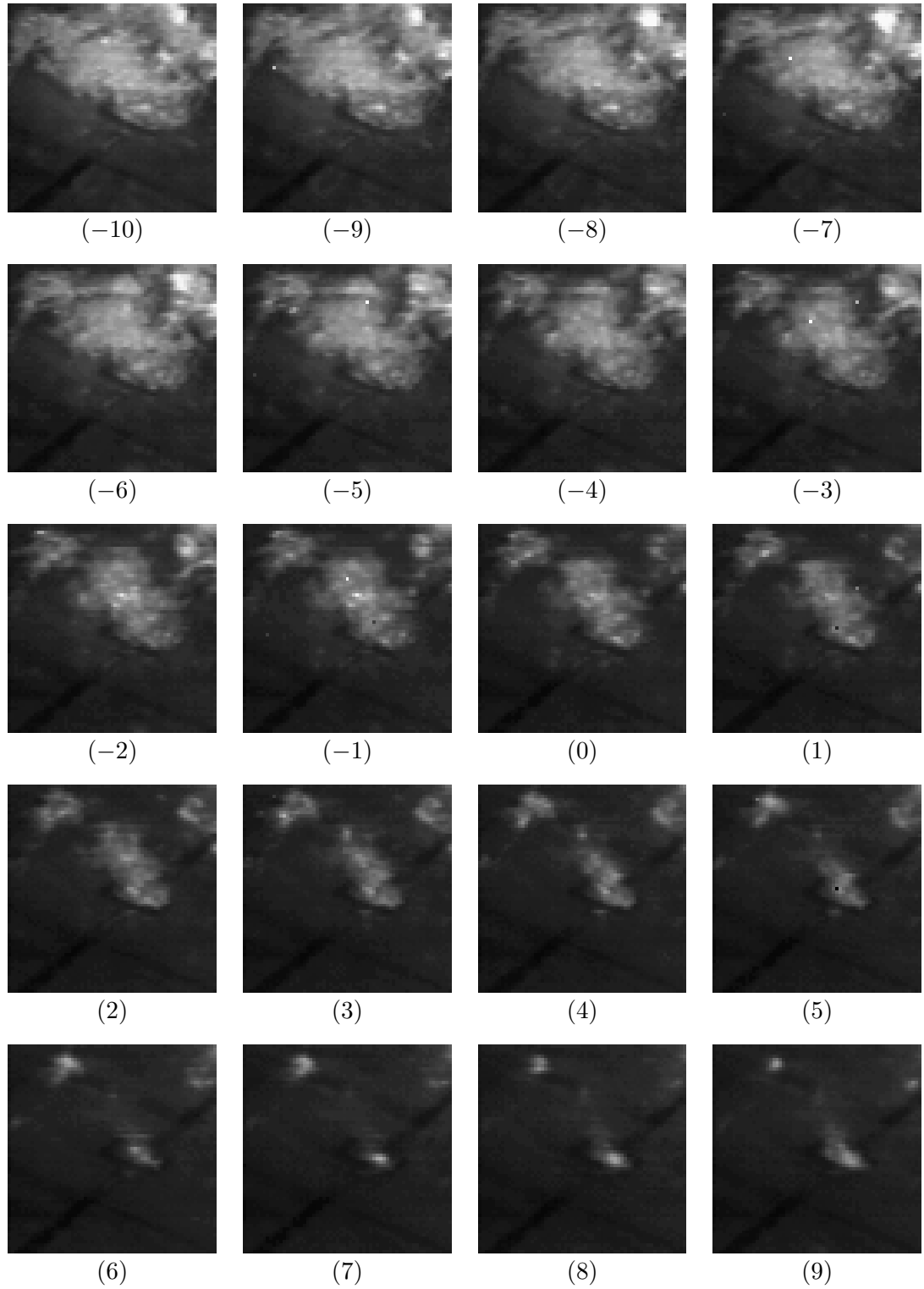


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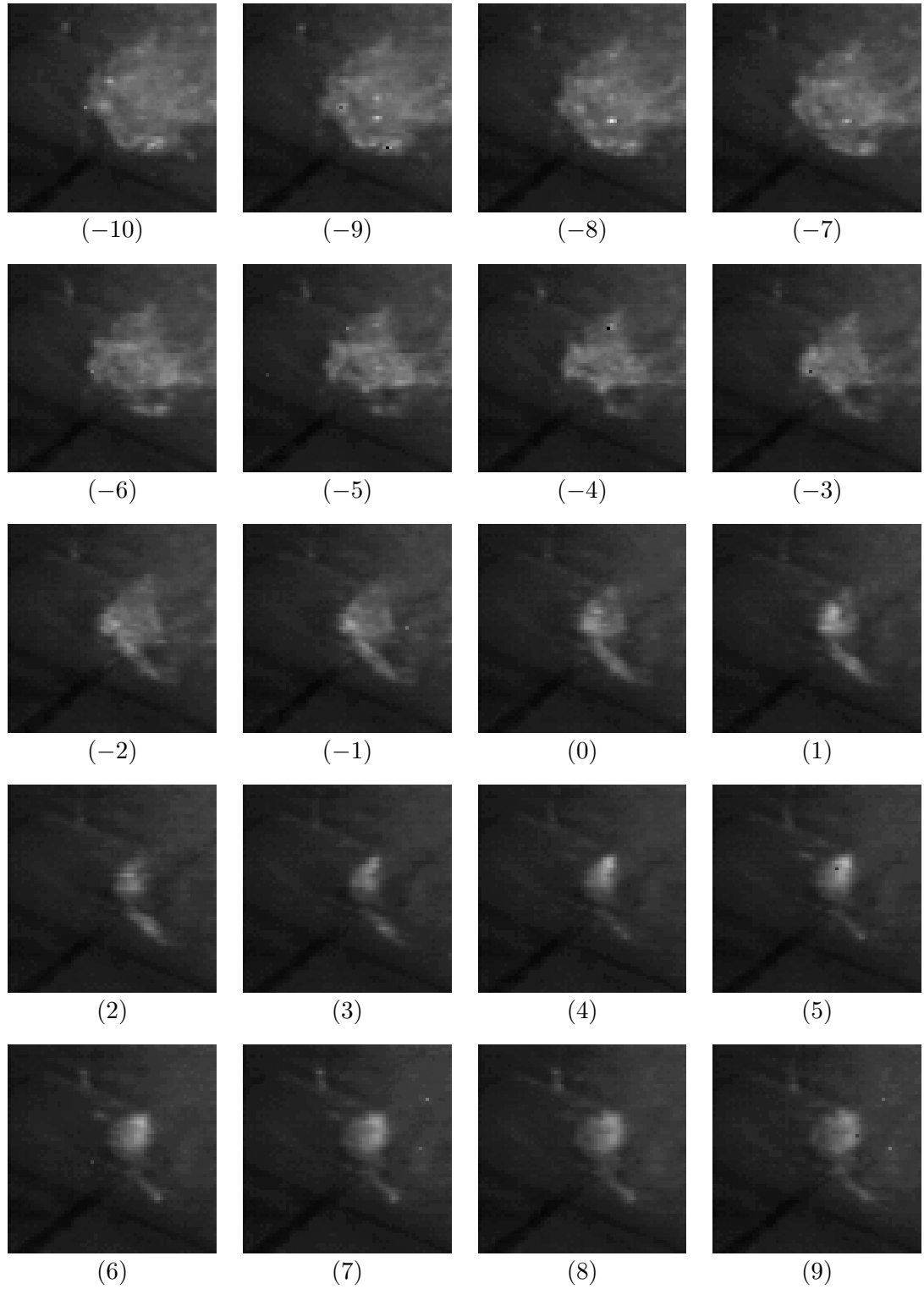


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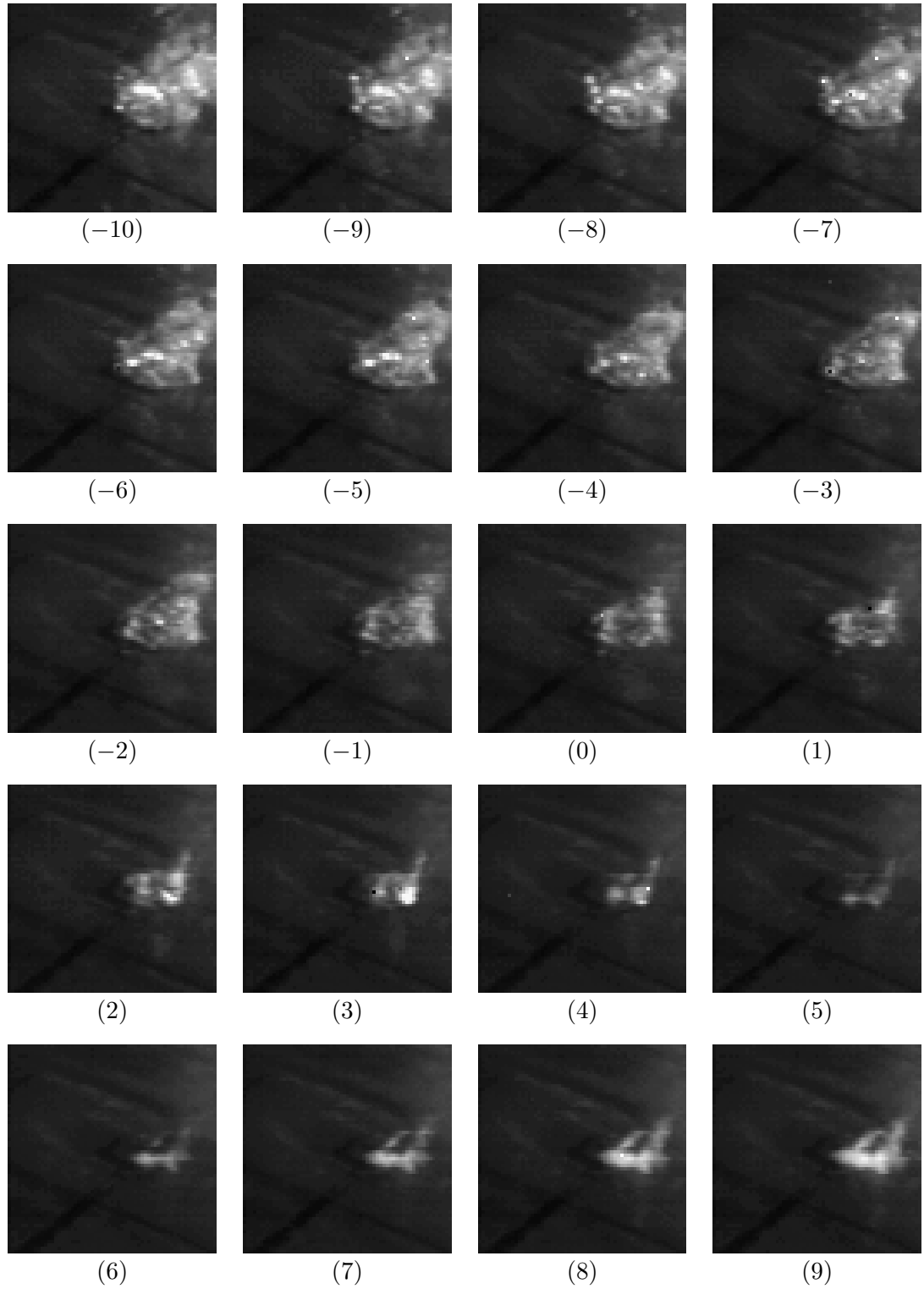


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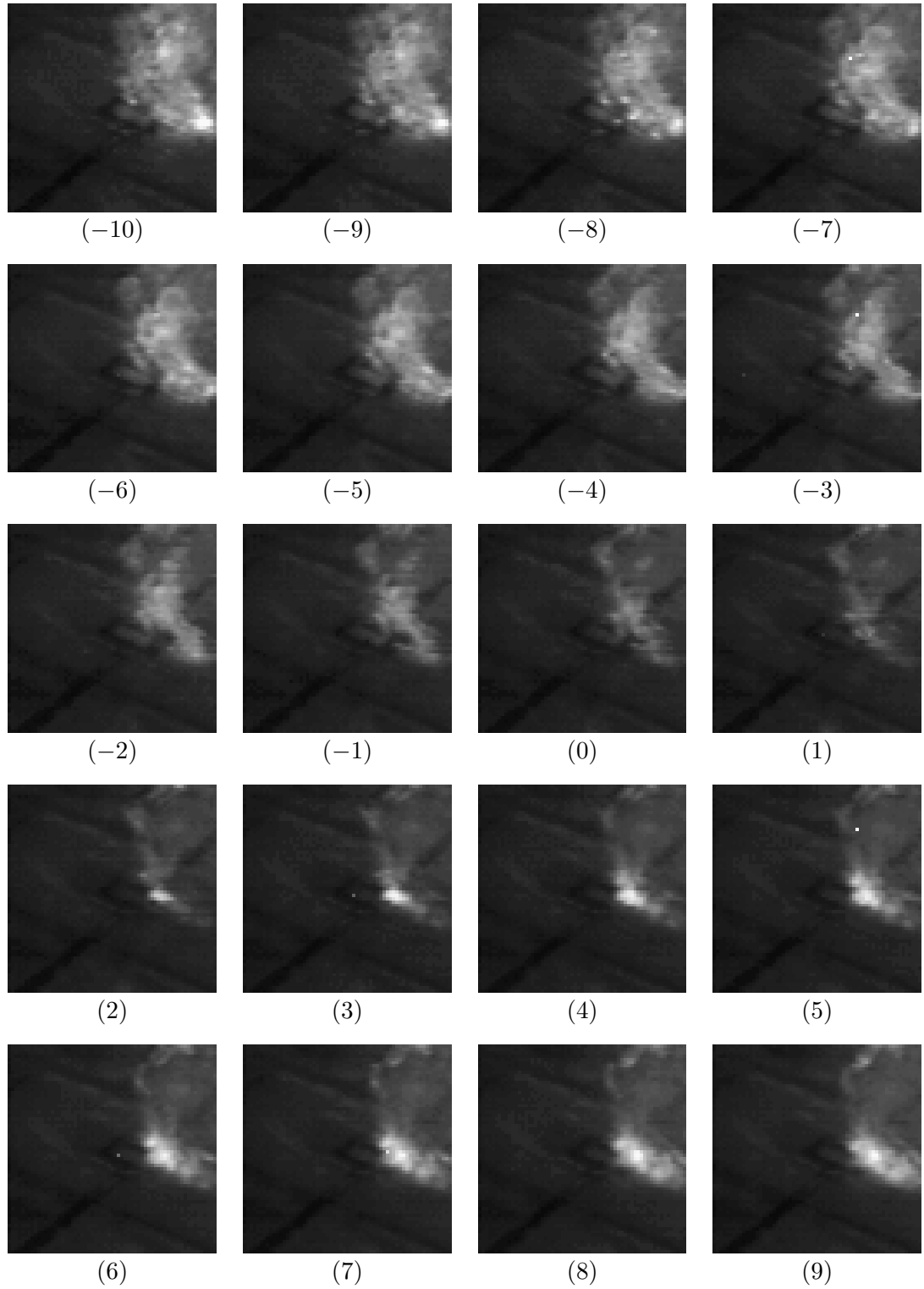


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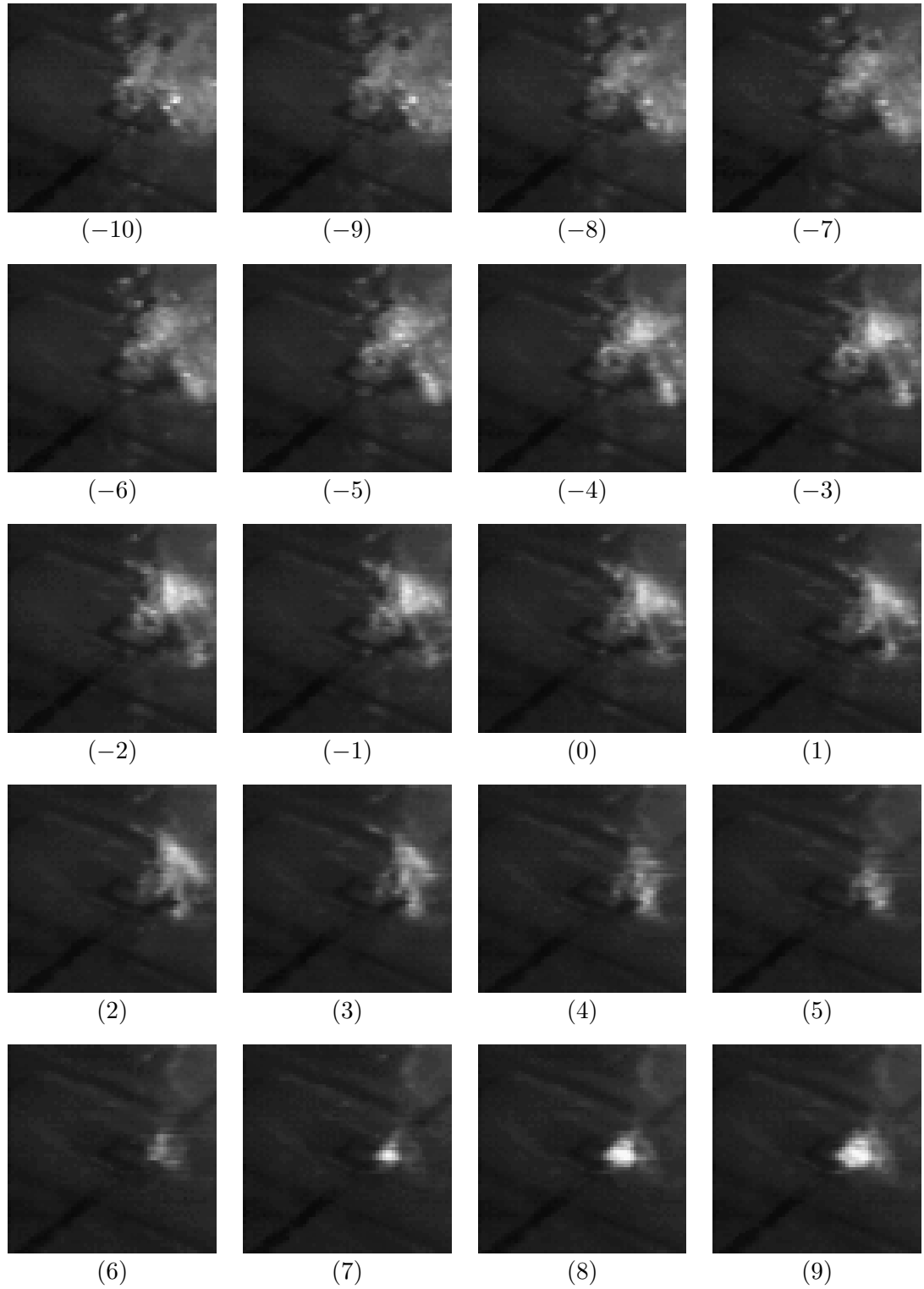


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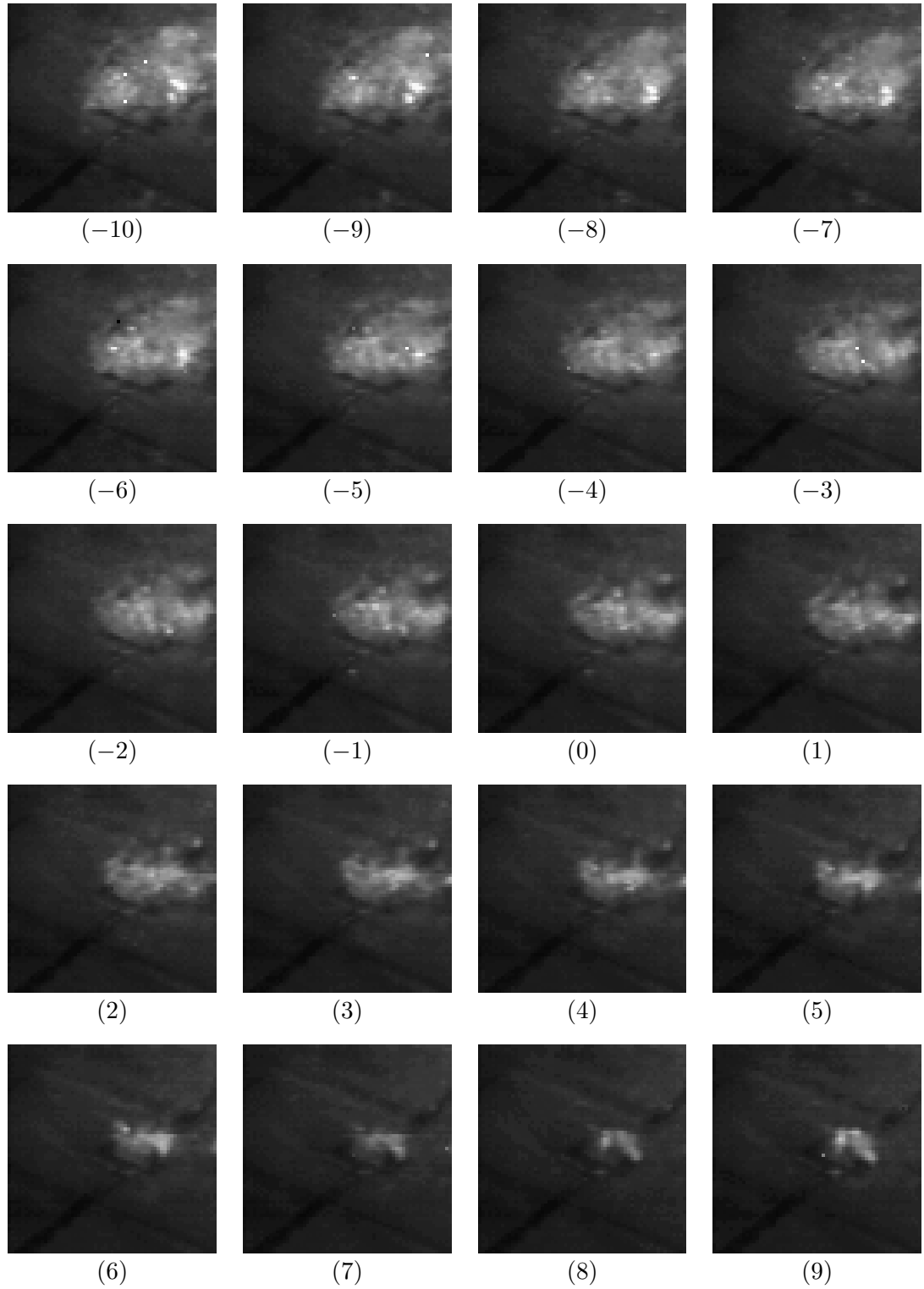


Fig. C.1: (No.11)

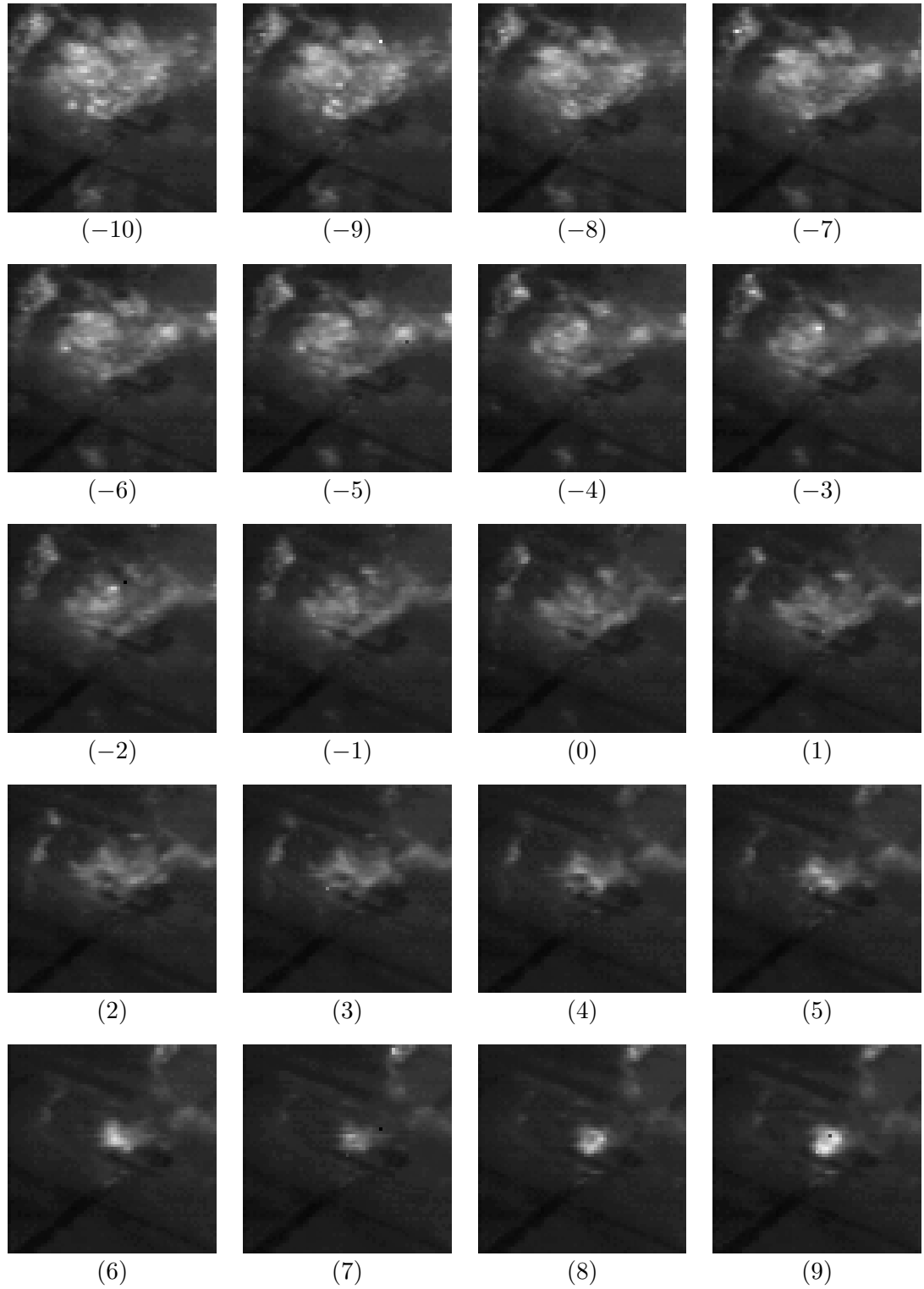


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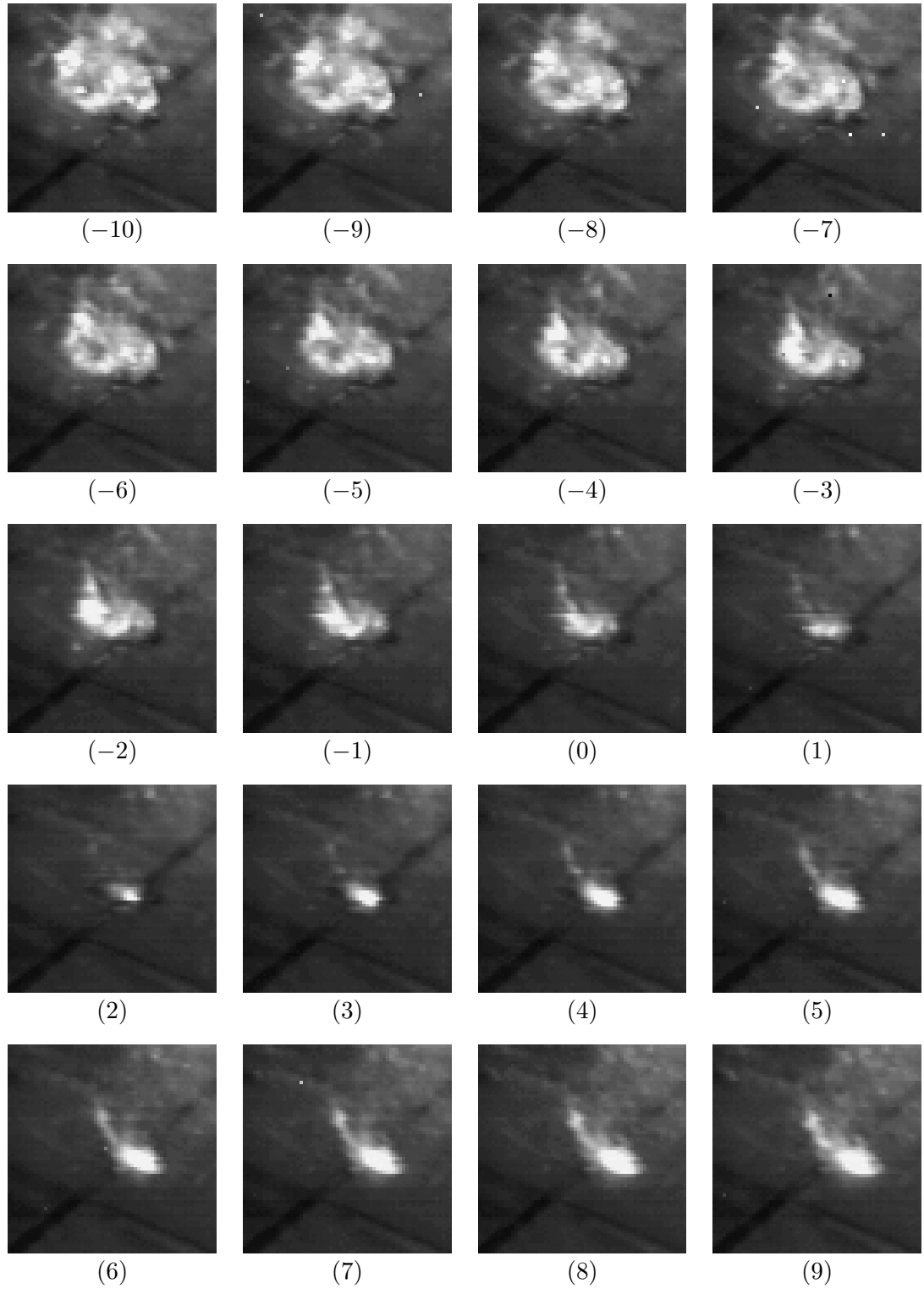


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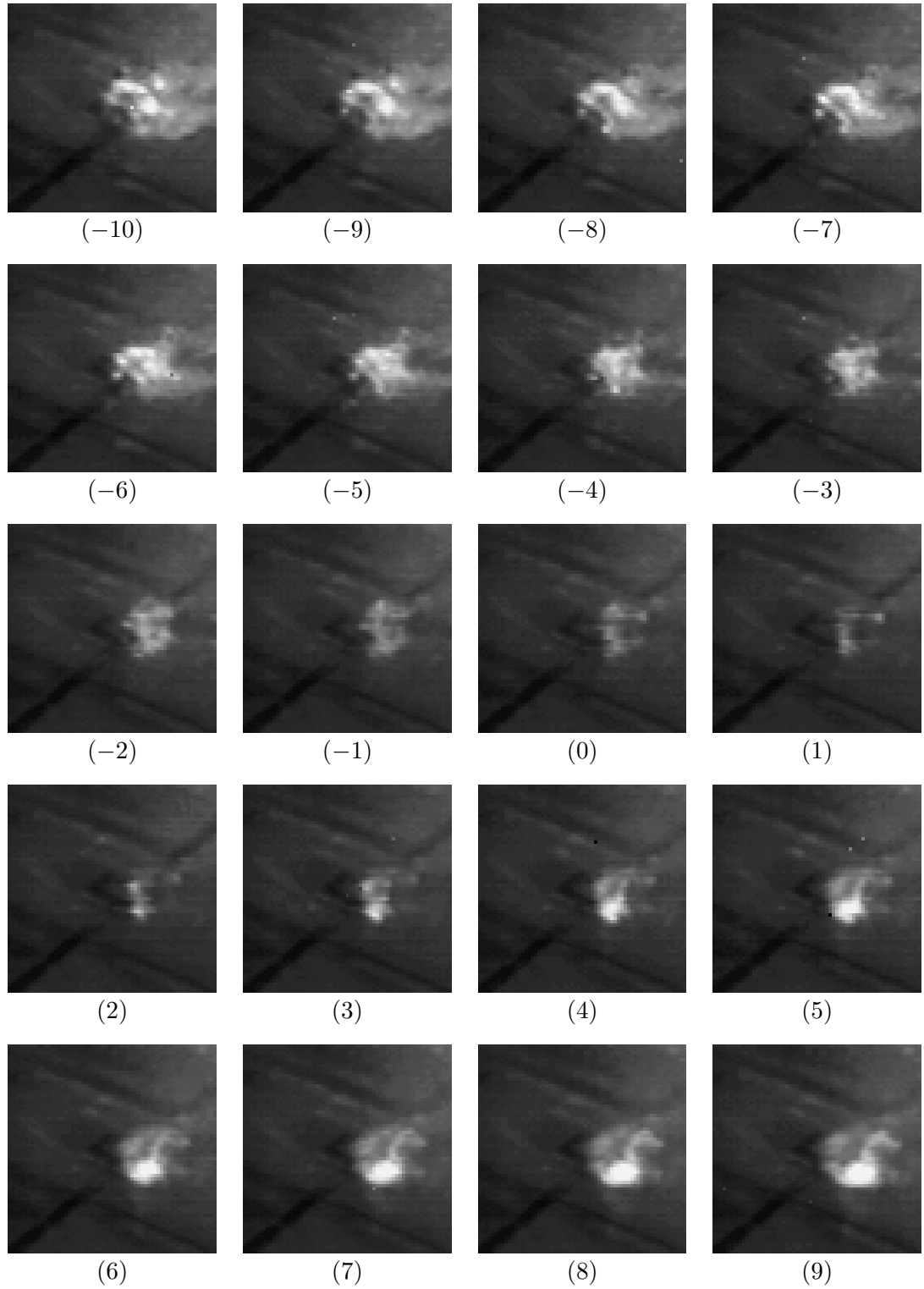


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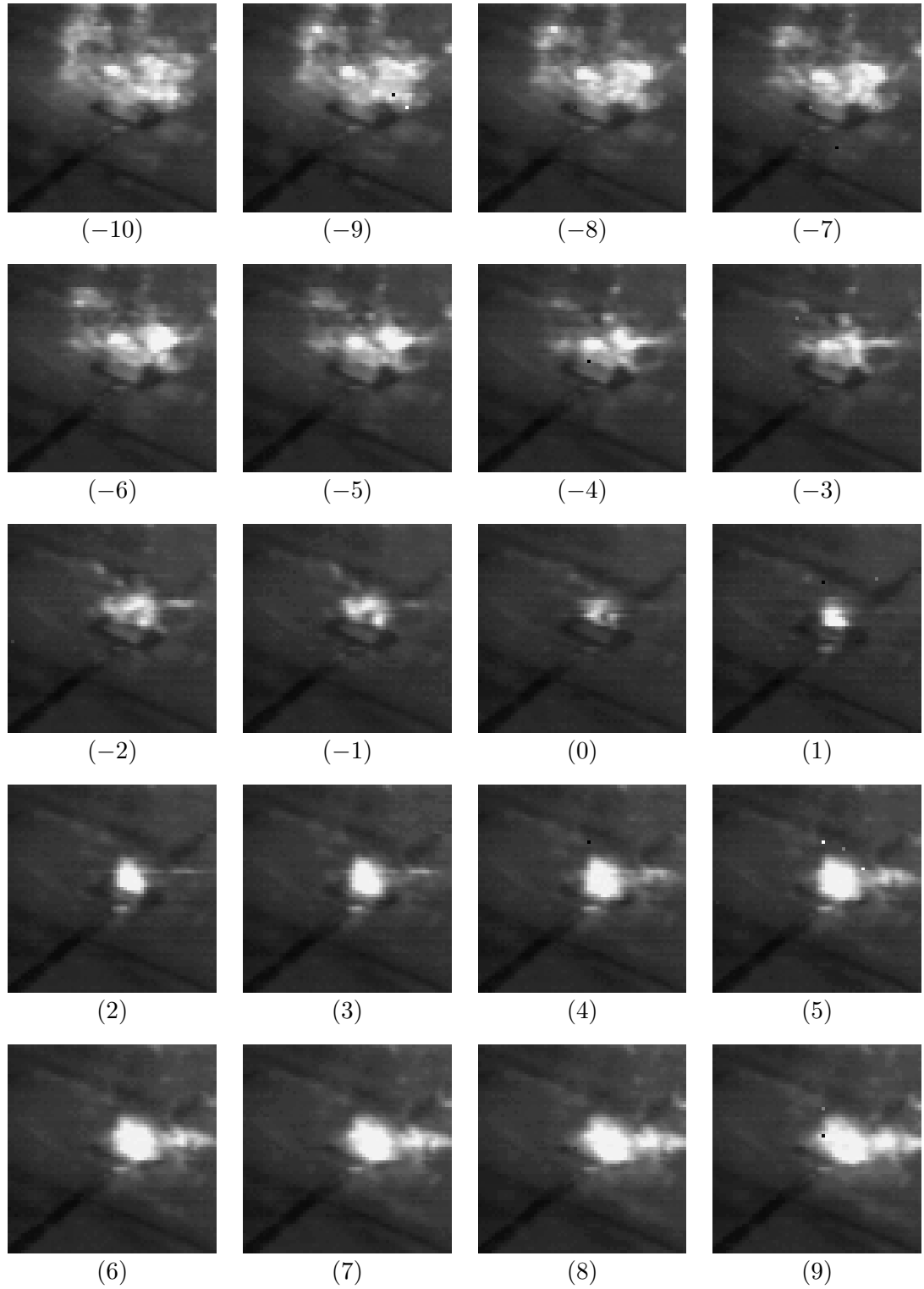


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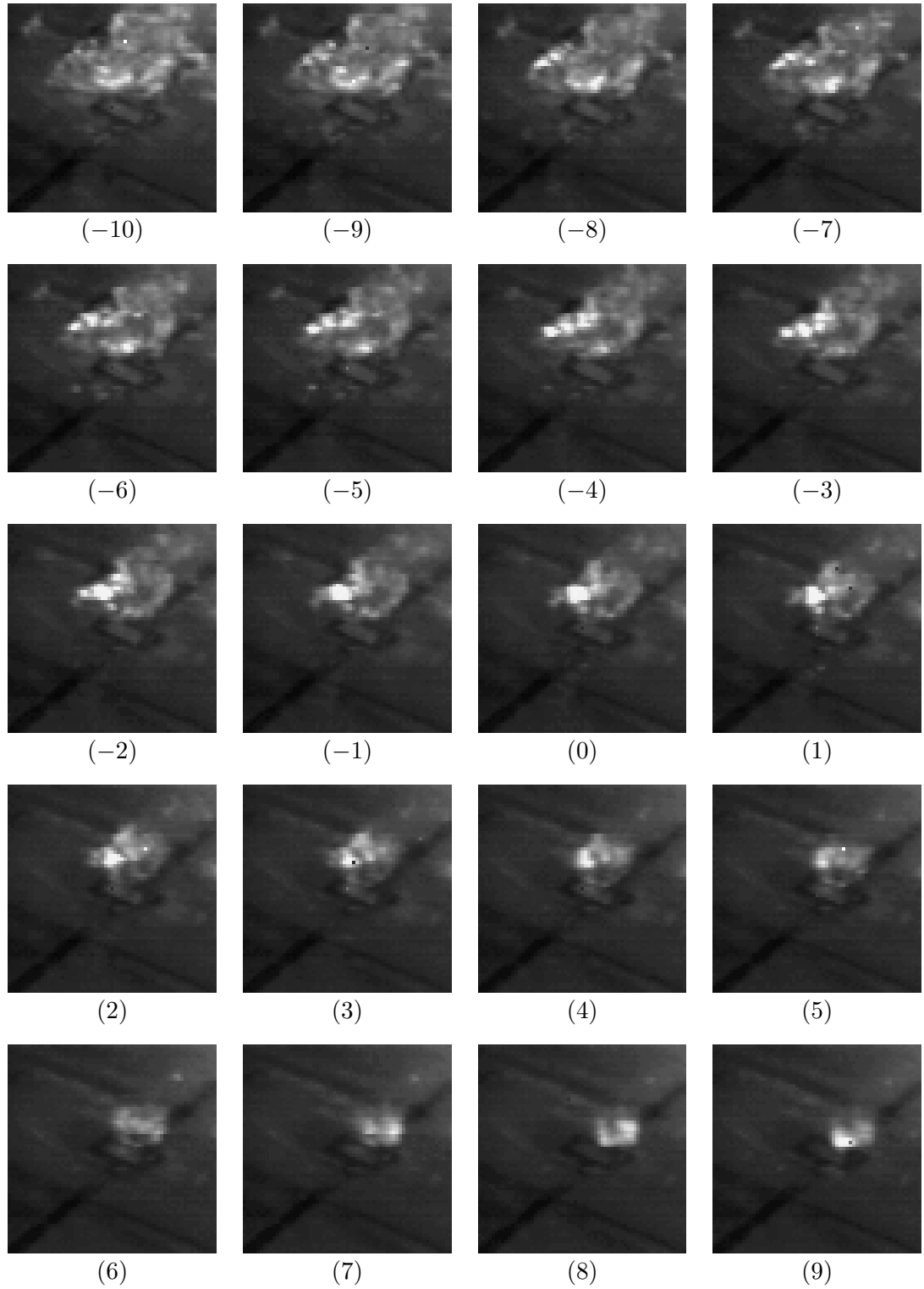


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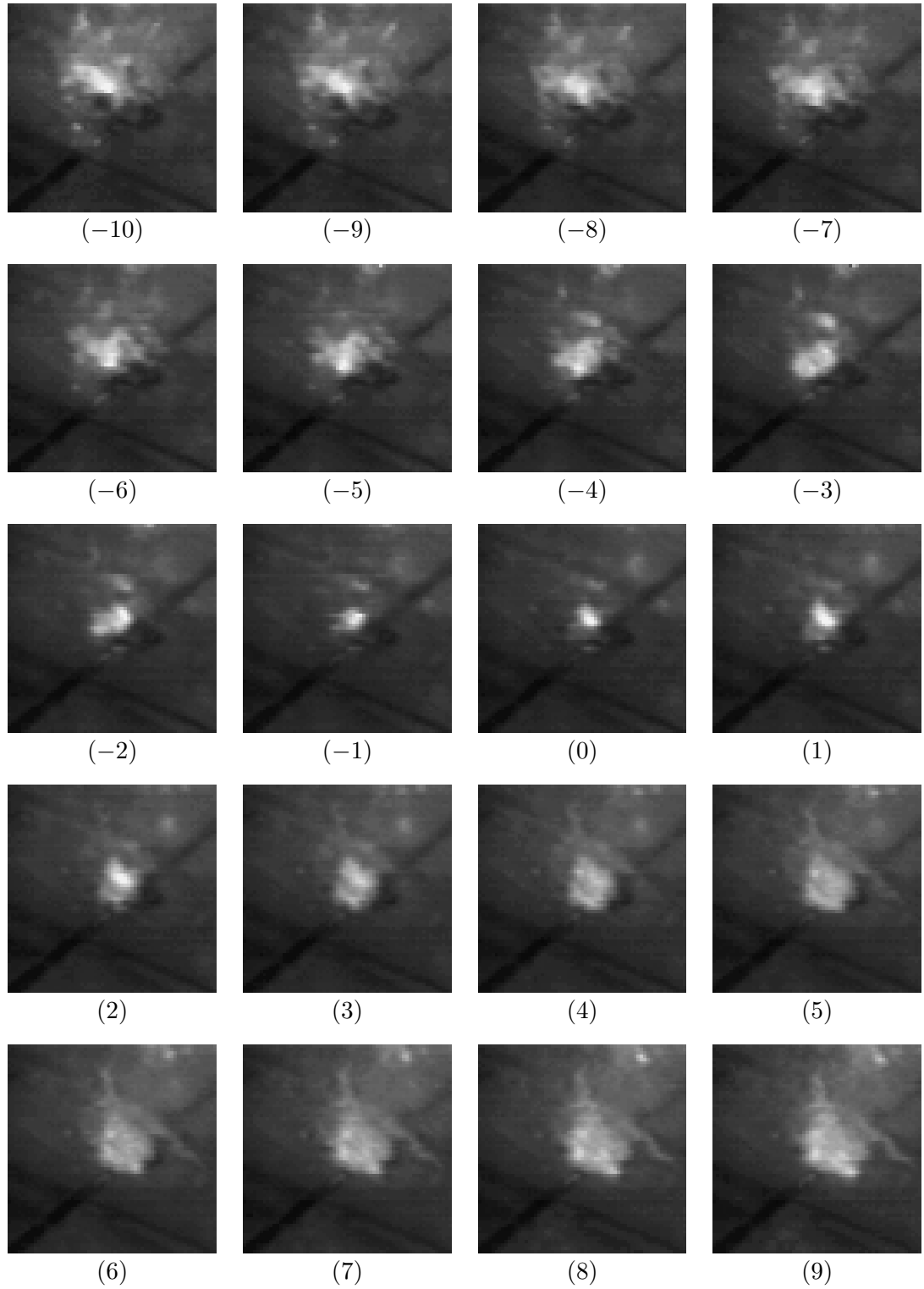


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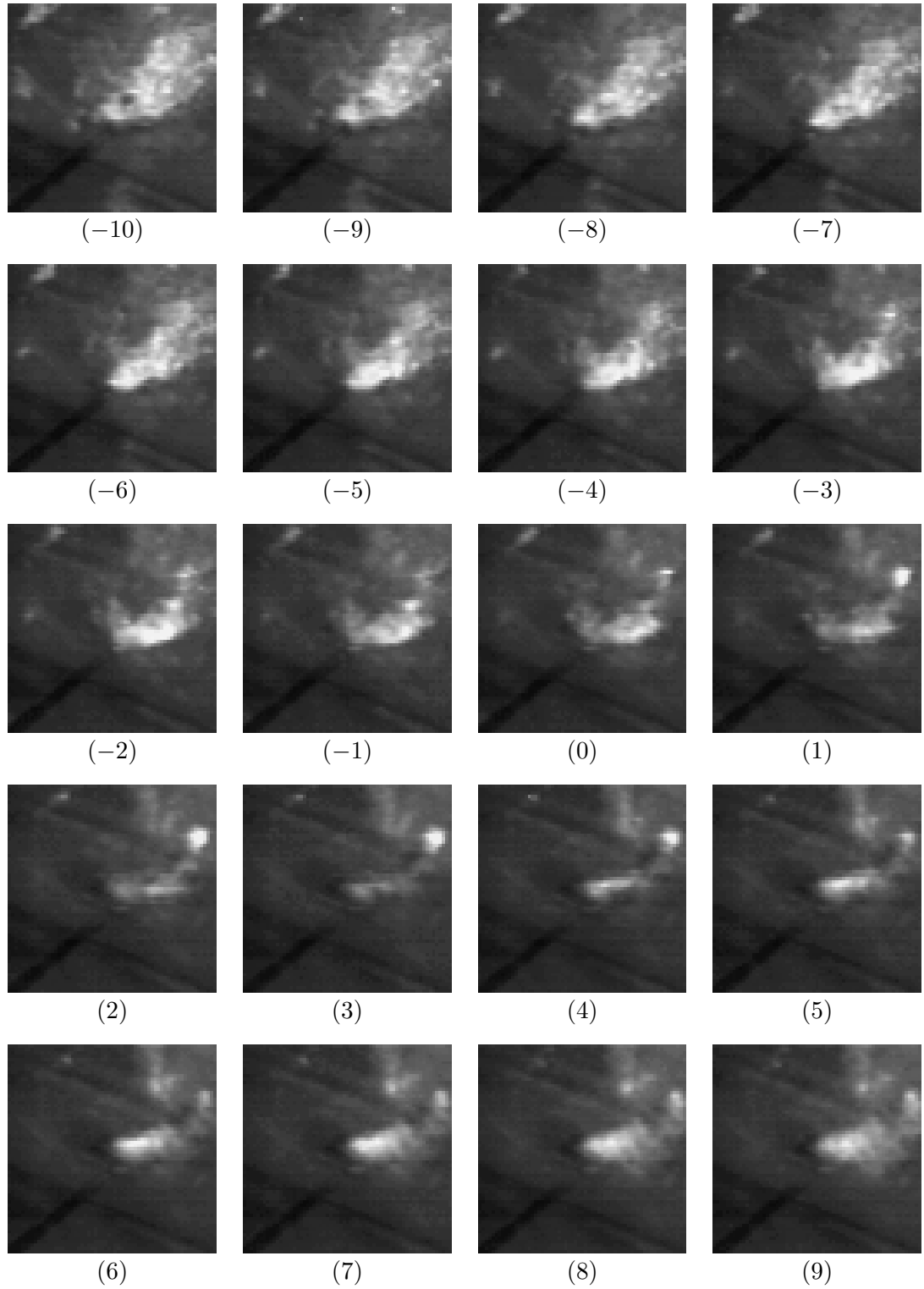


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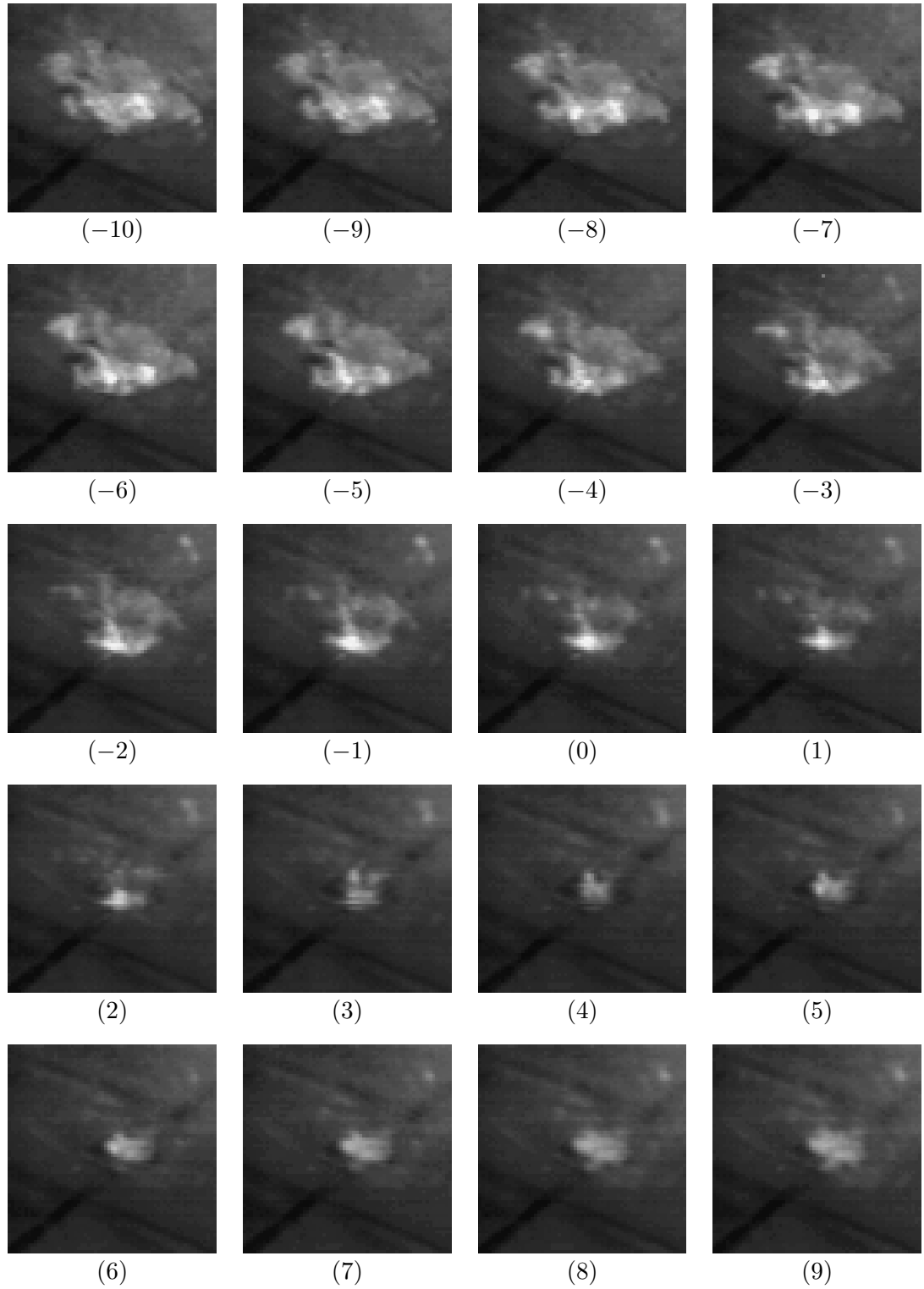


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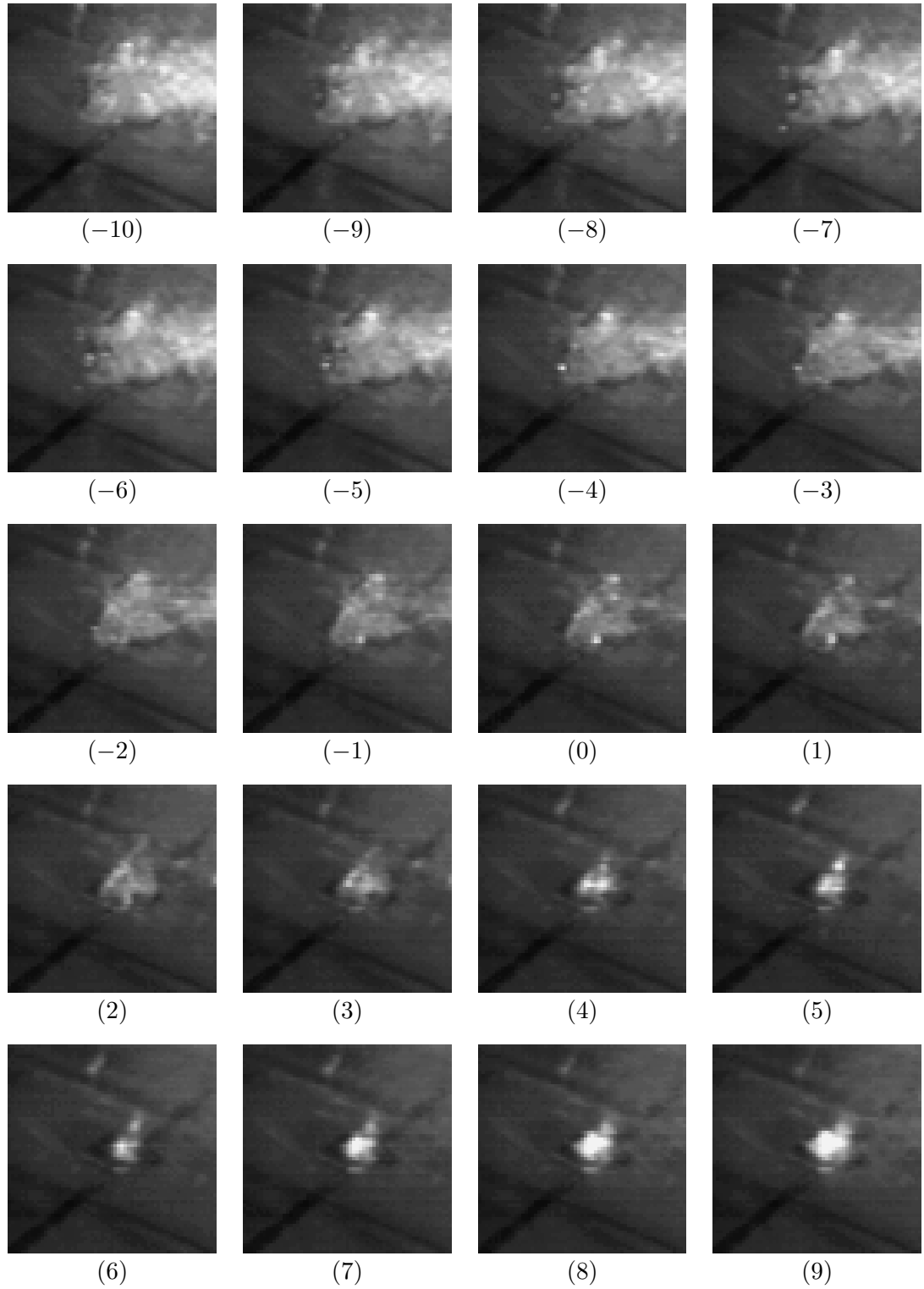


Fig. C.1: (No.20)

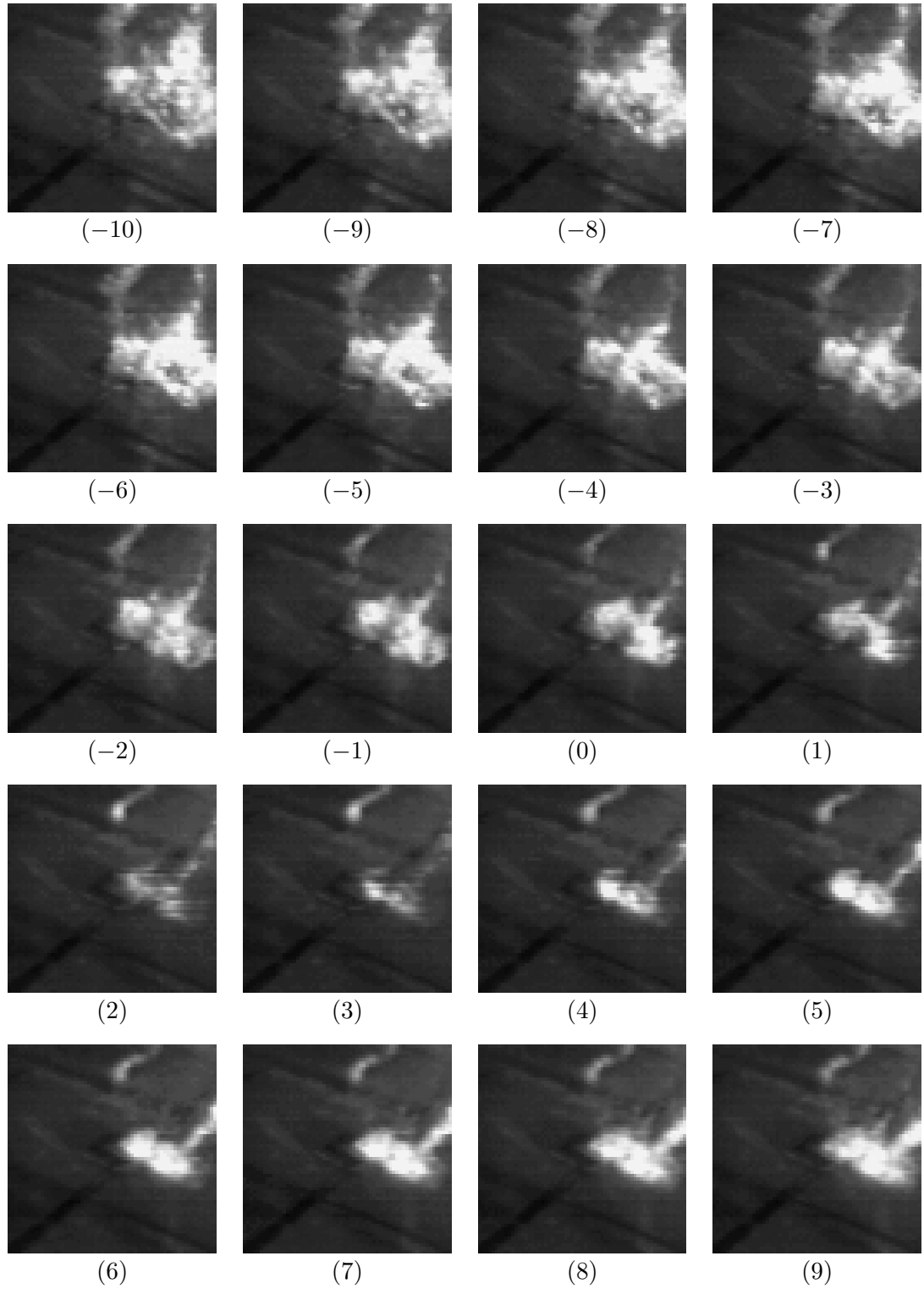


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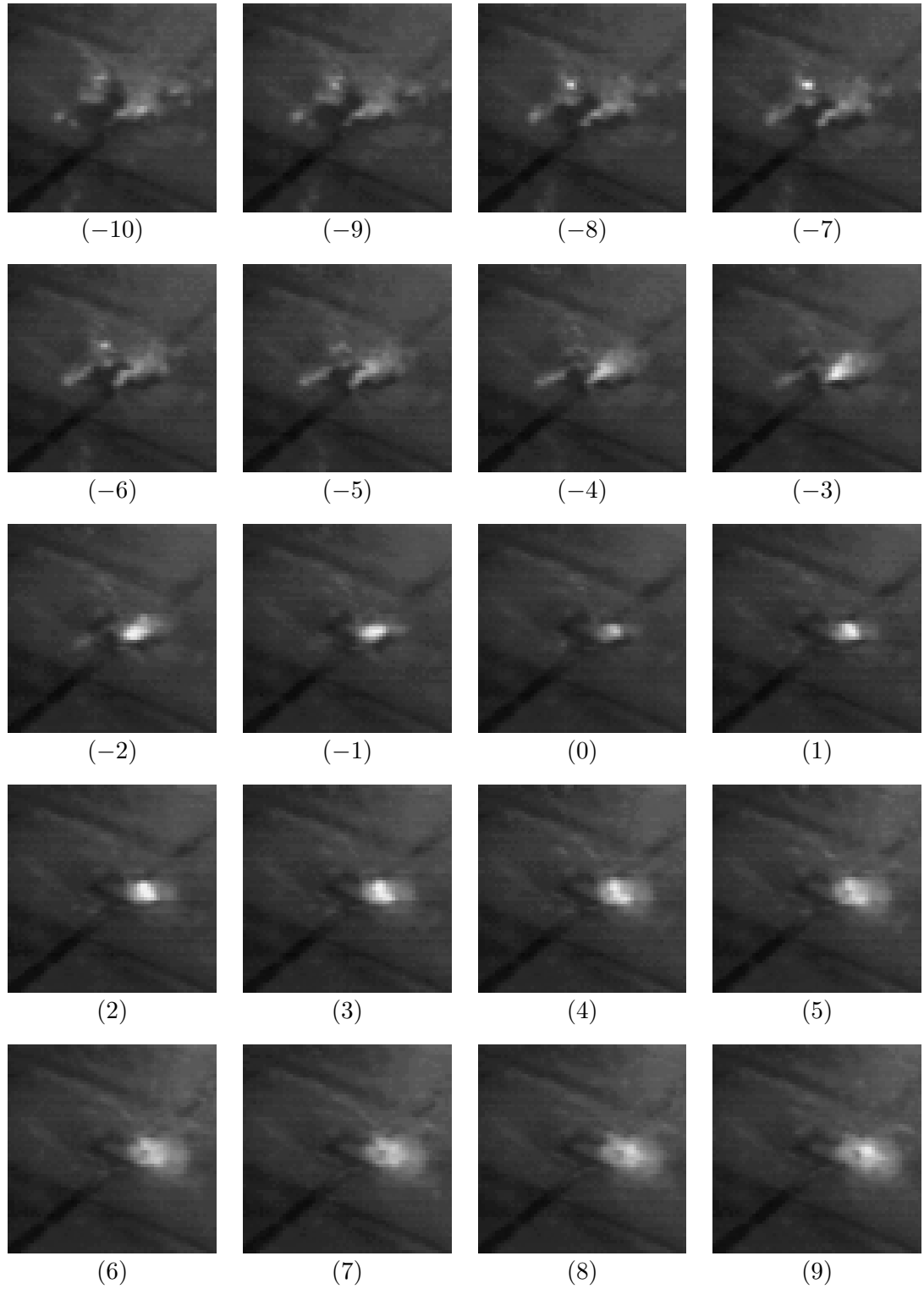


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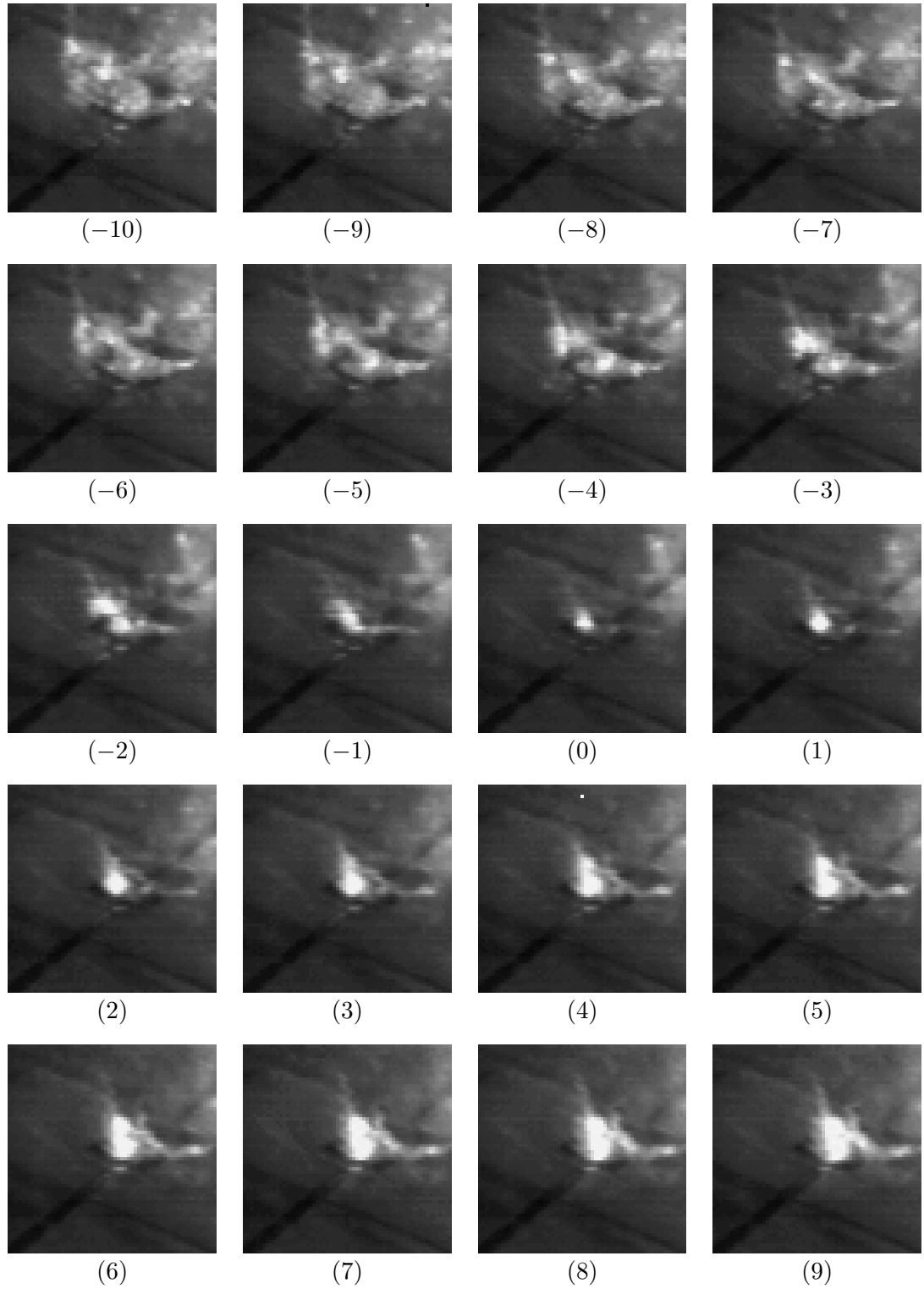


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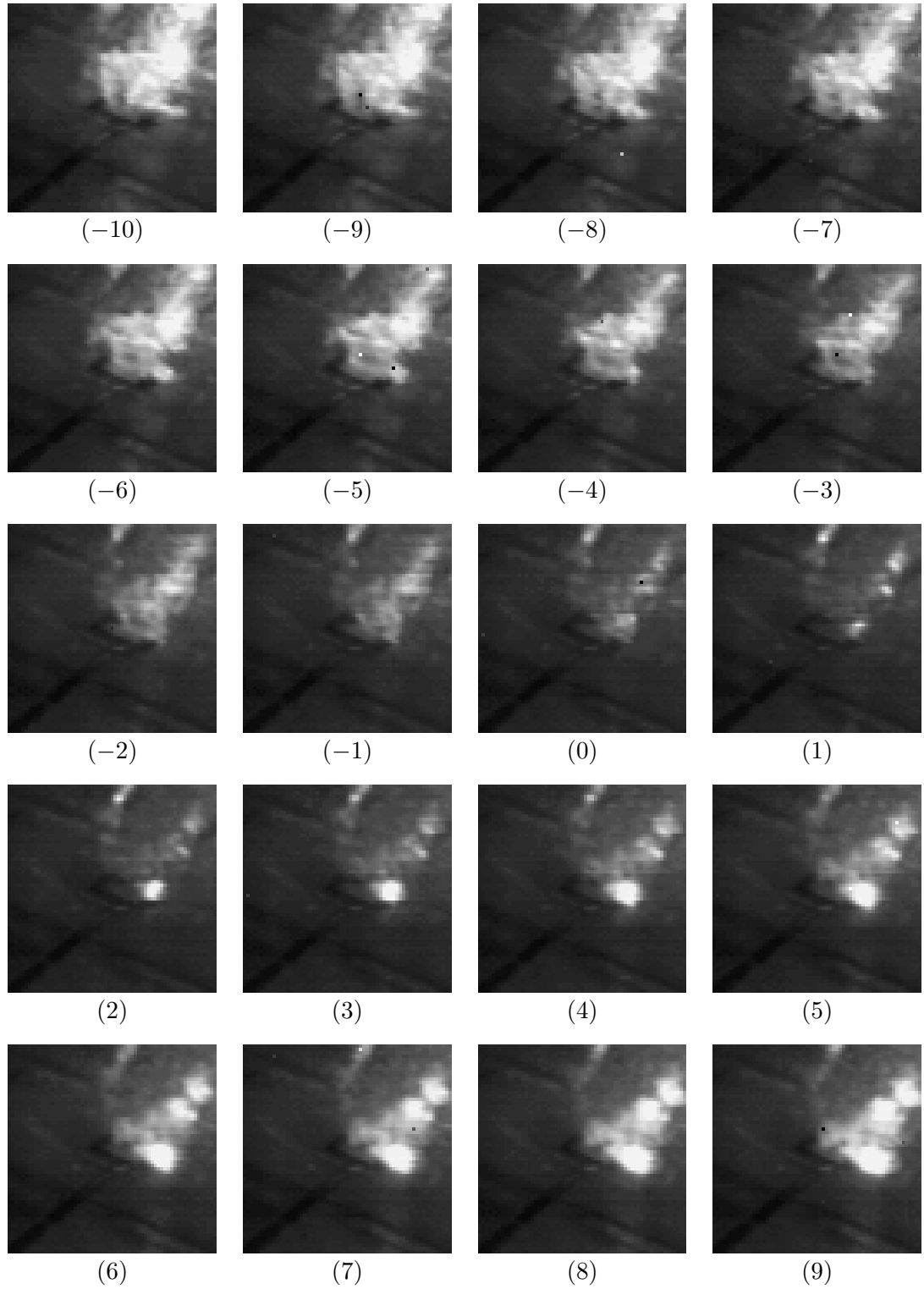


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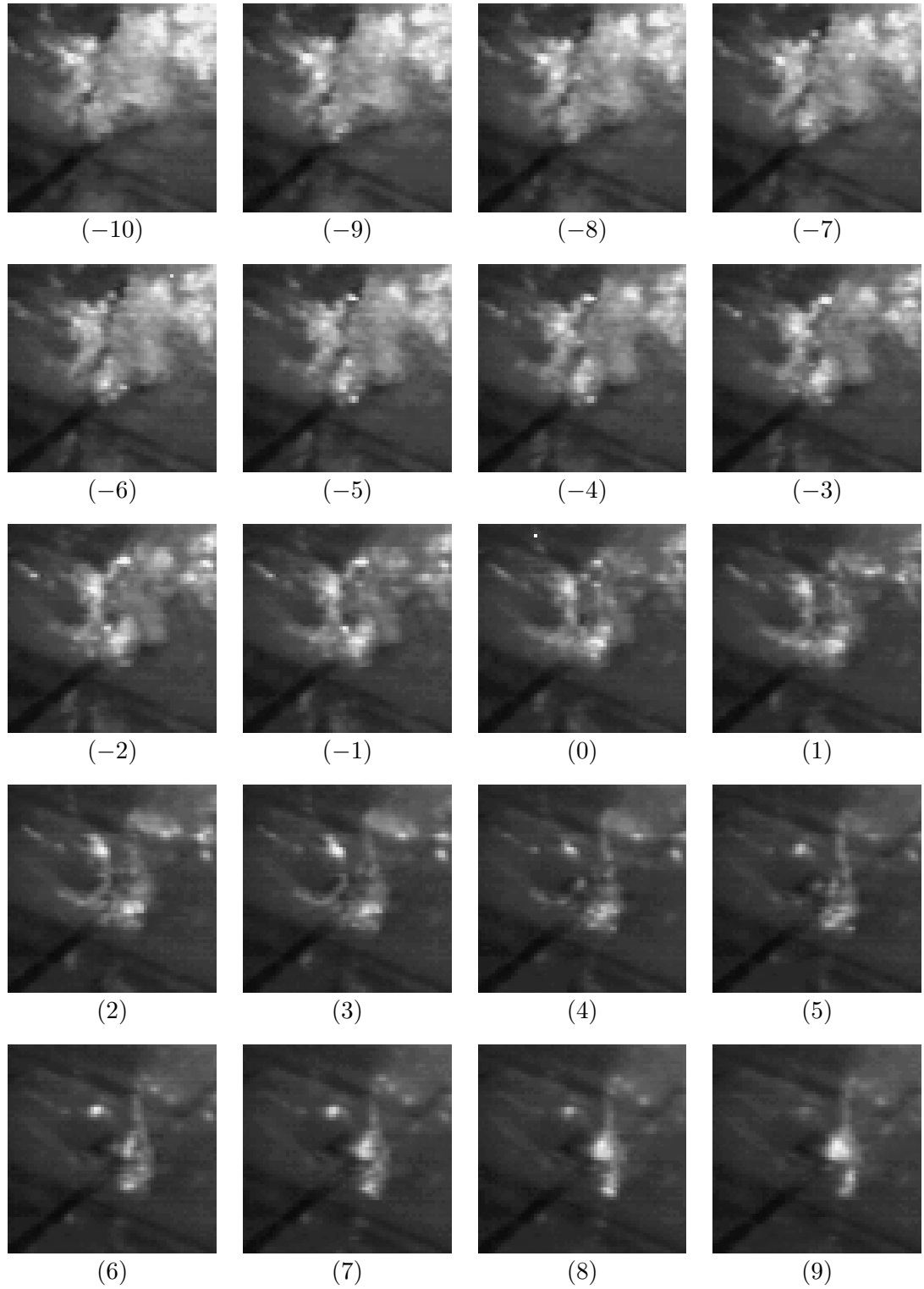


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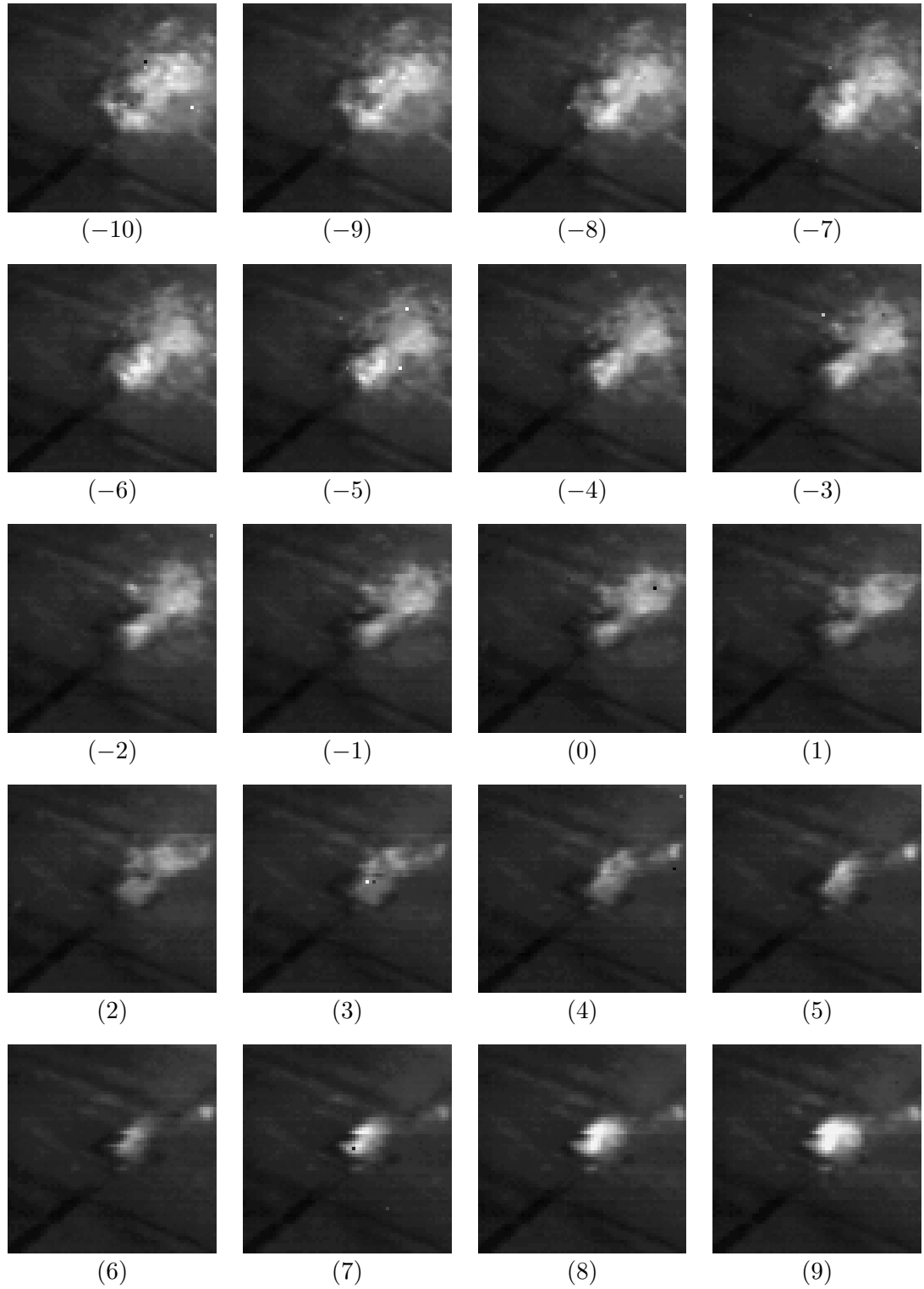


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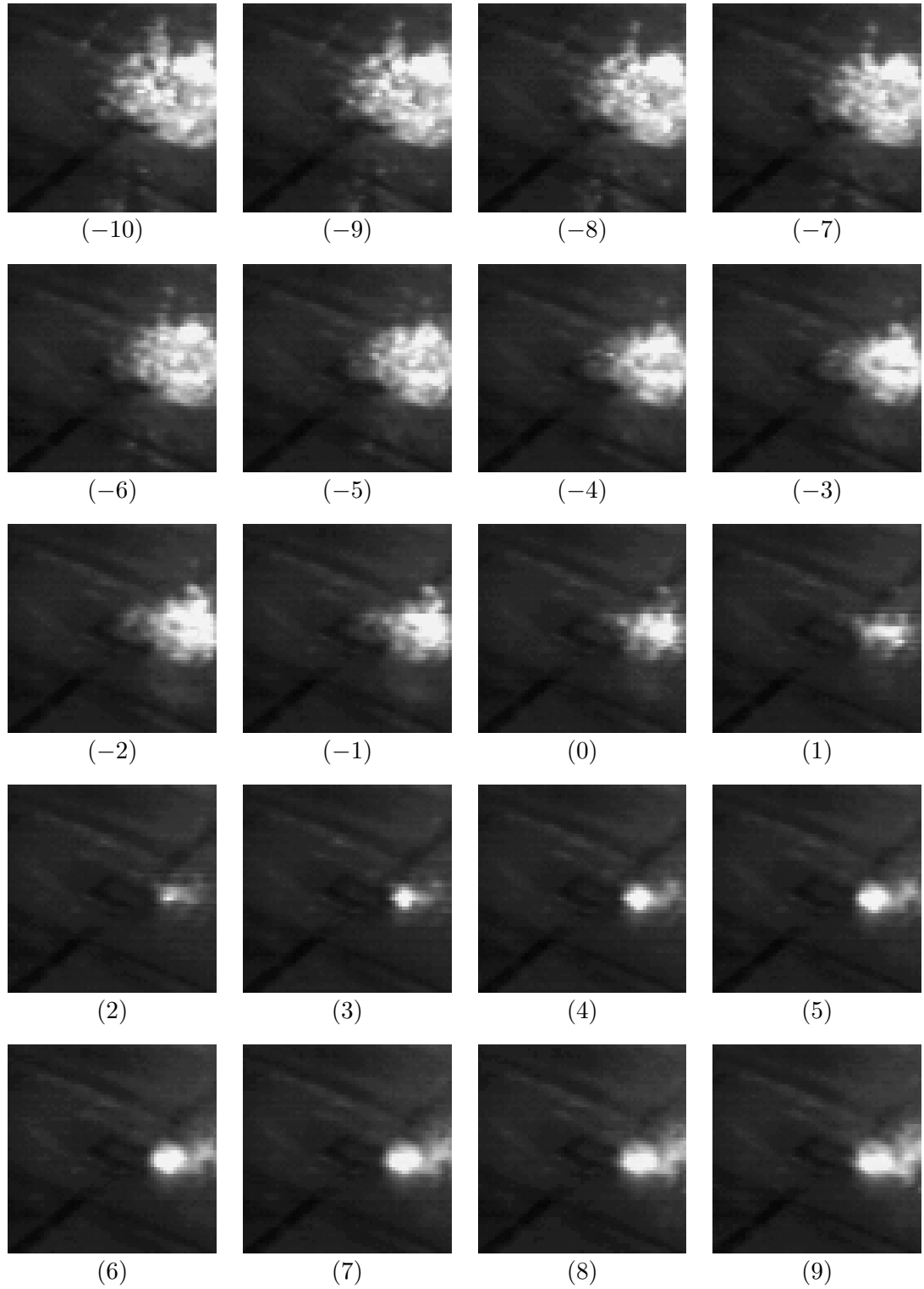


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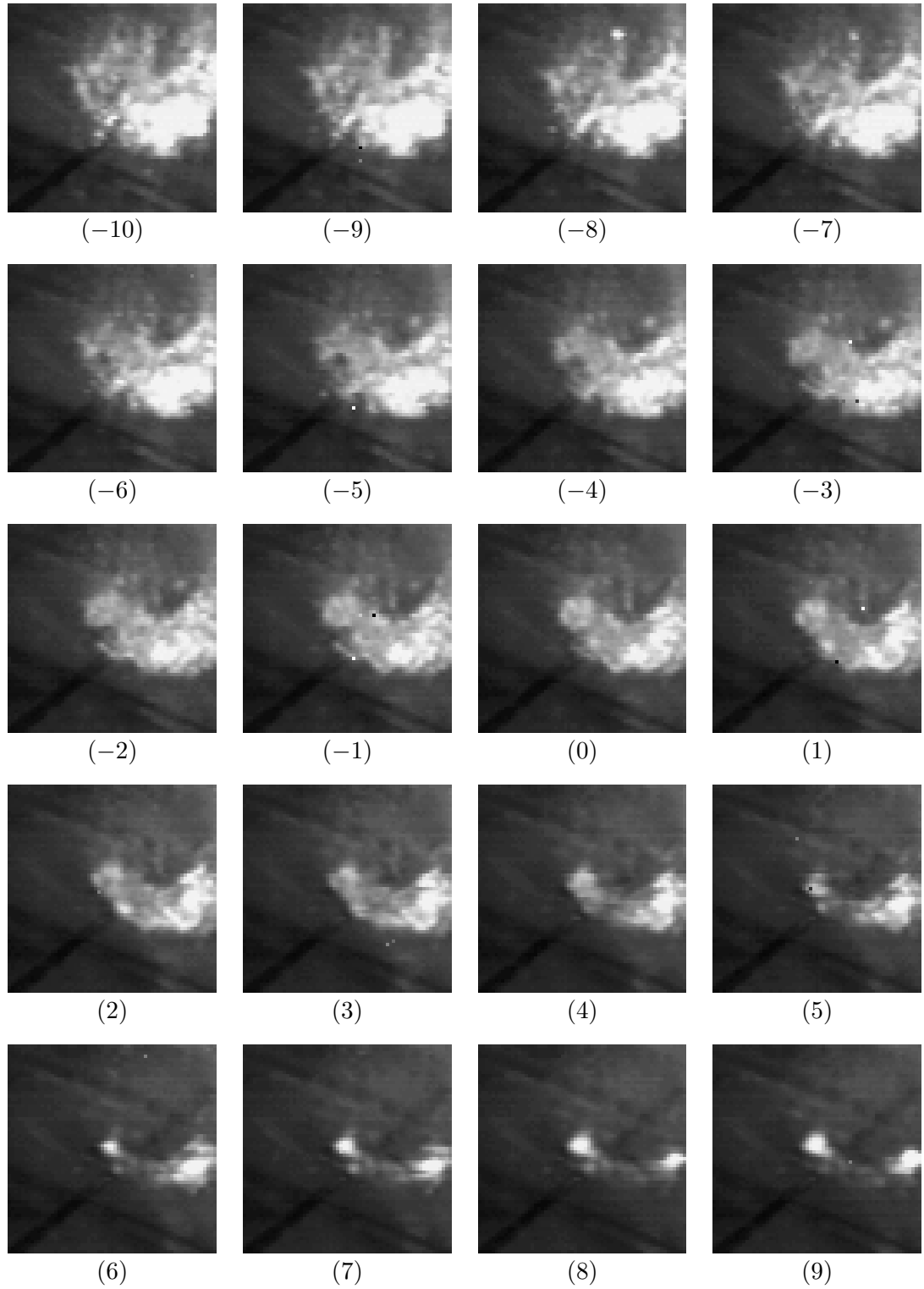


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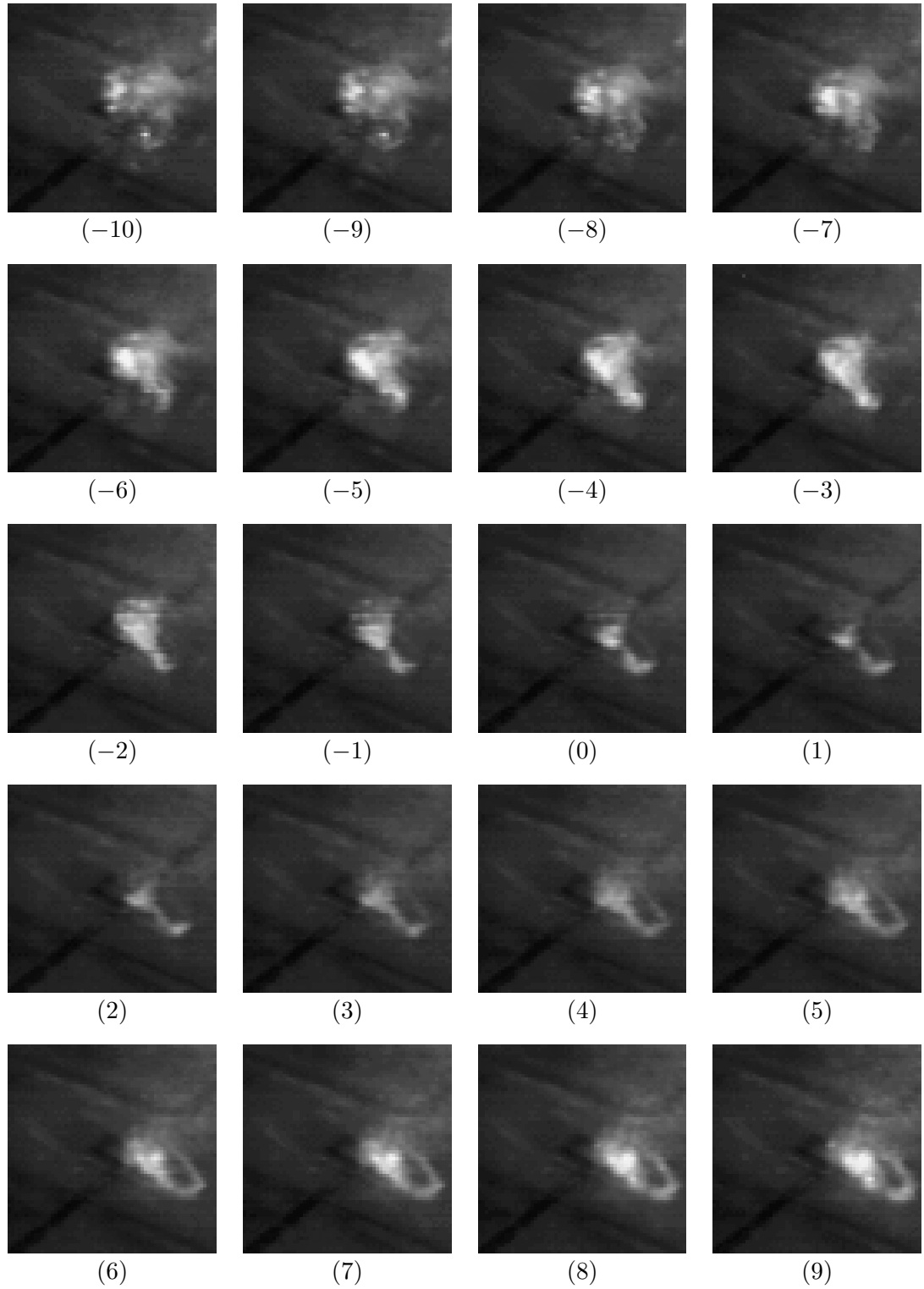


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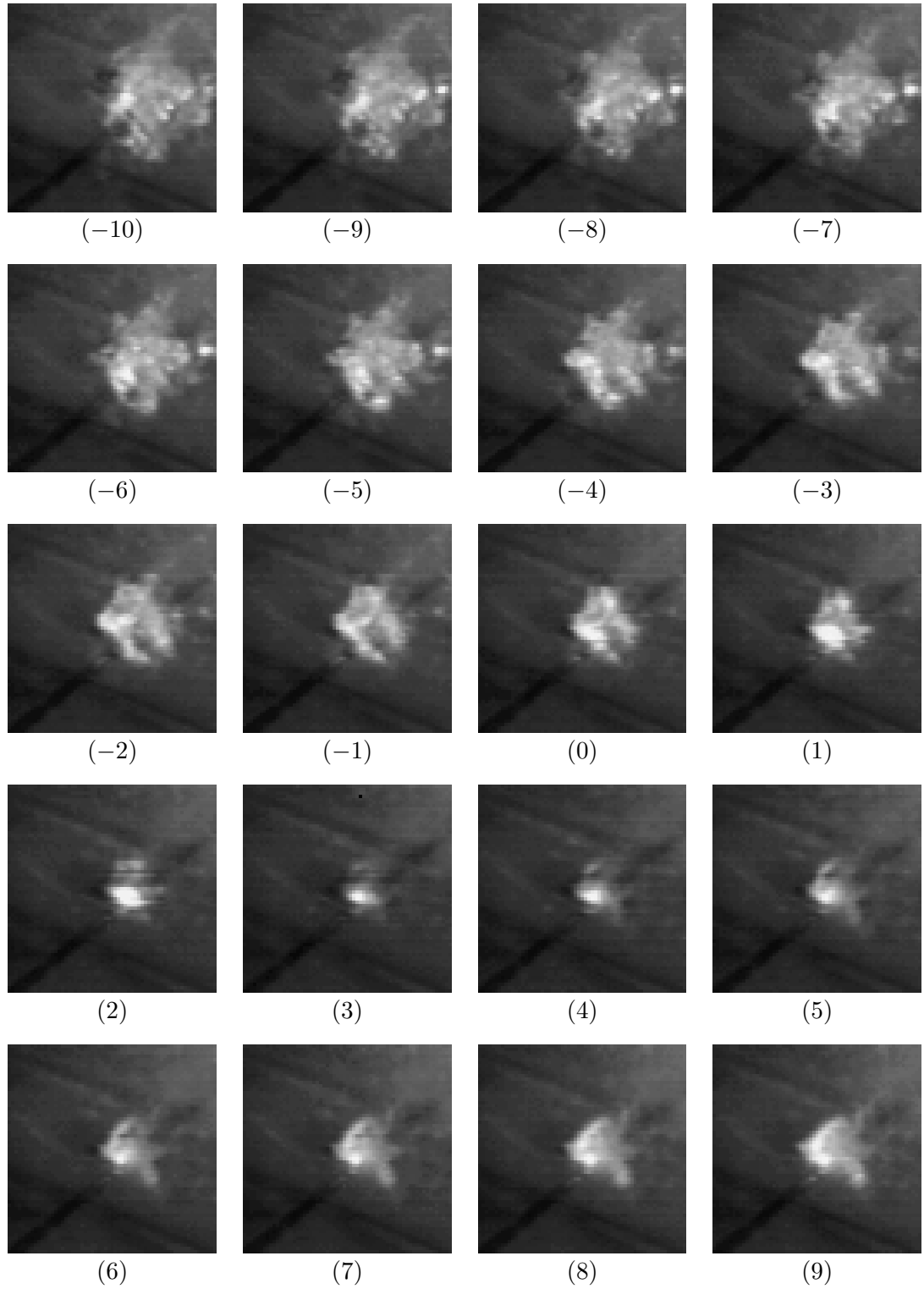


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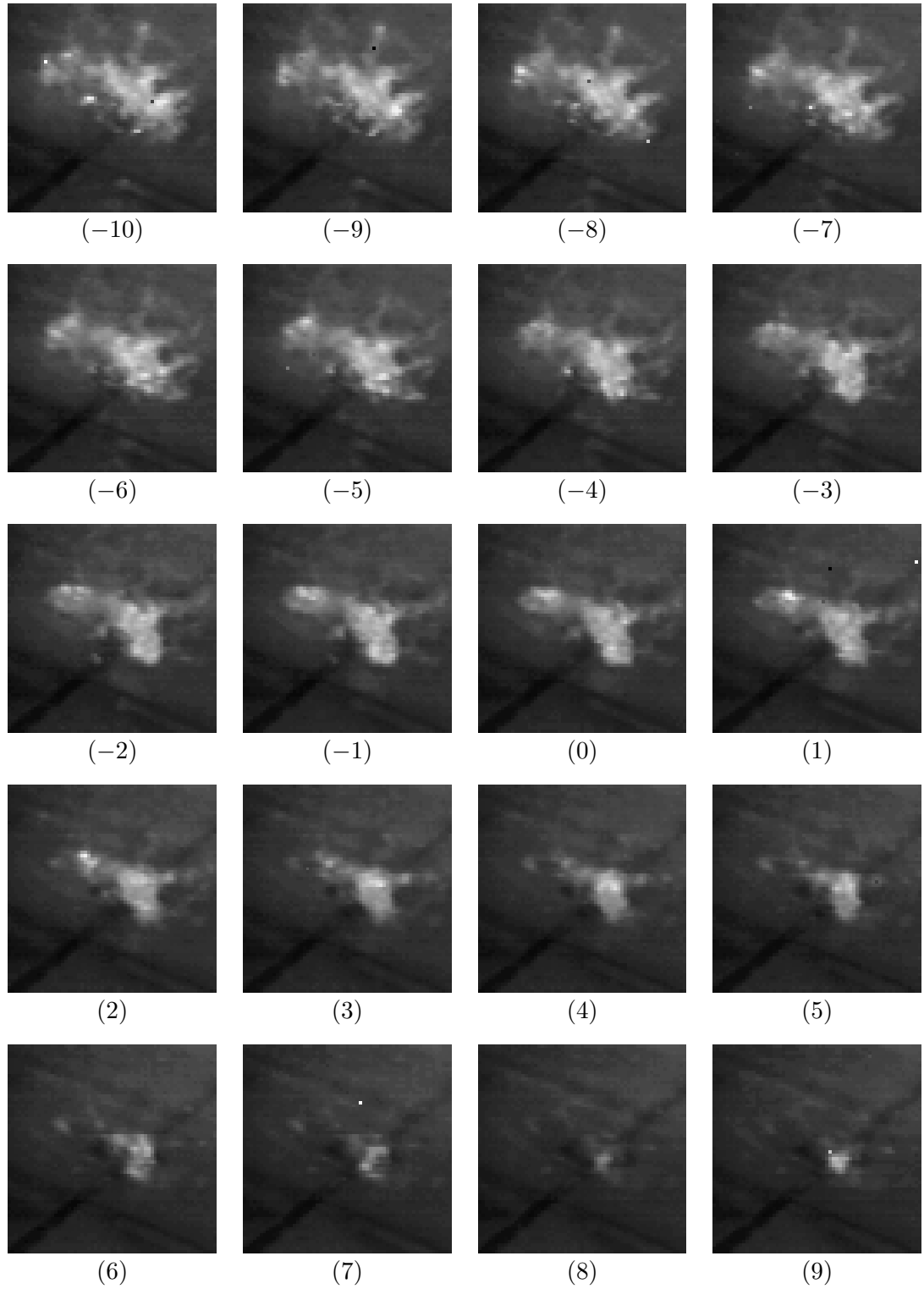


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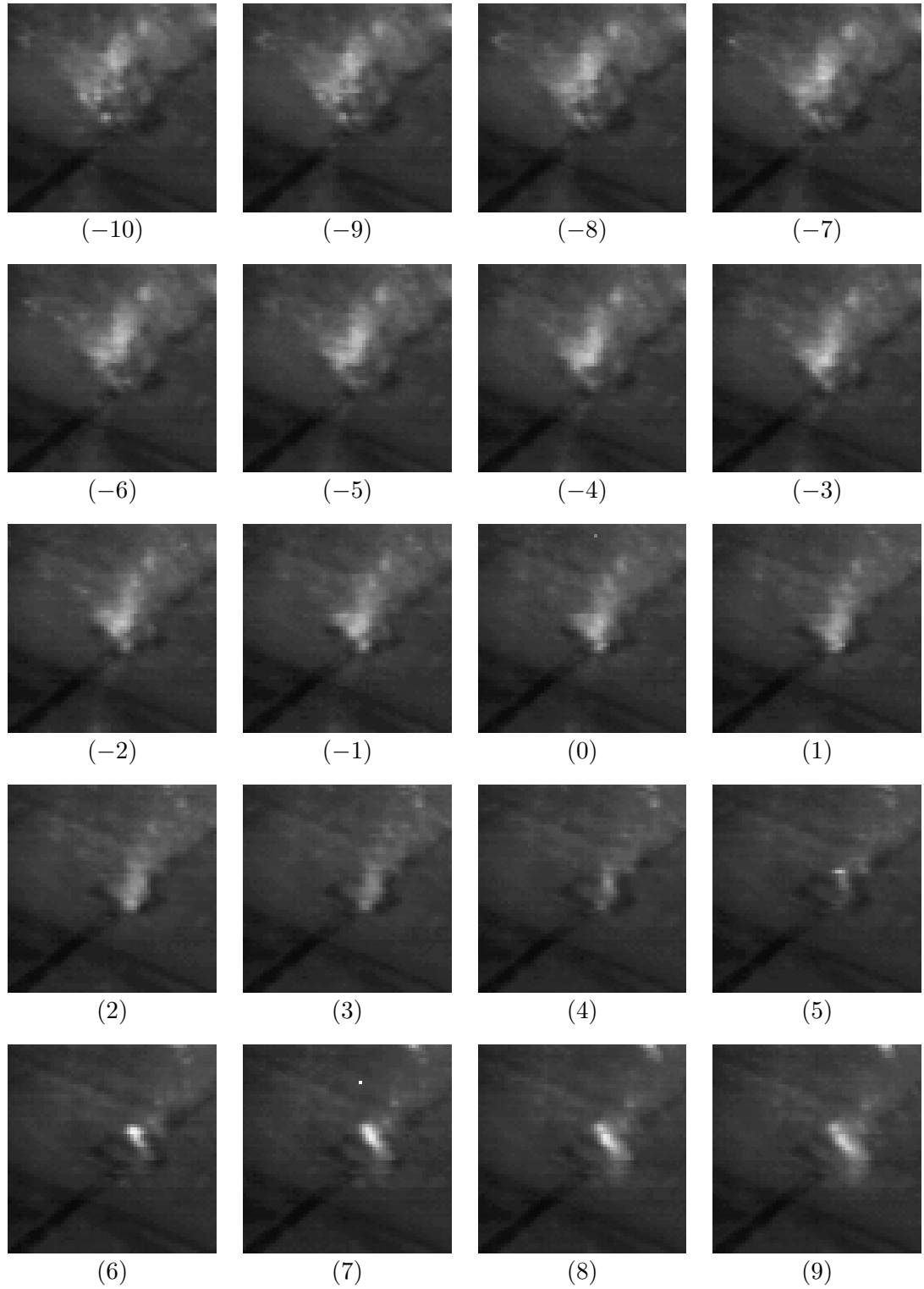


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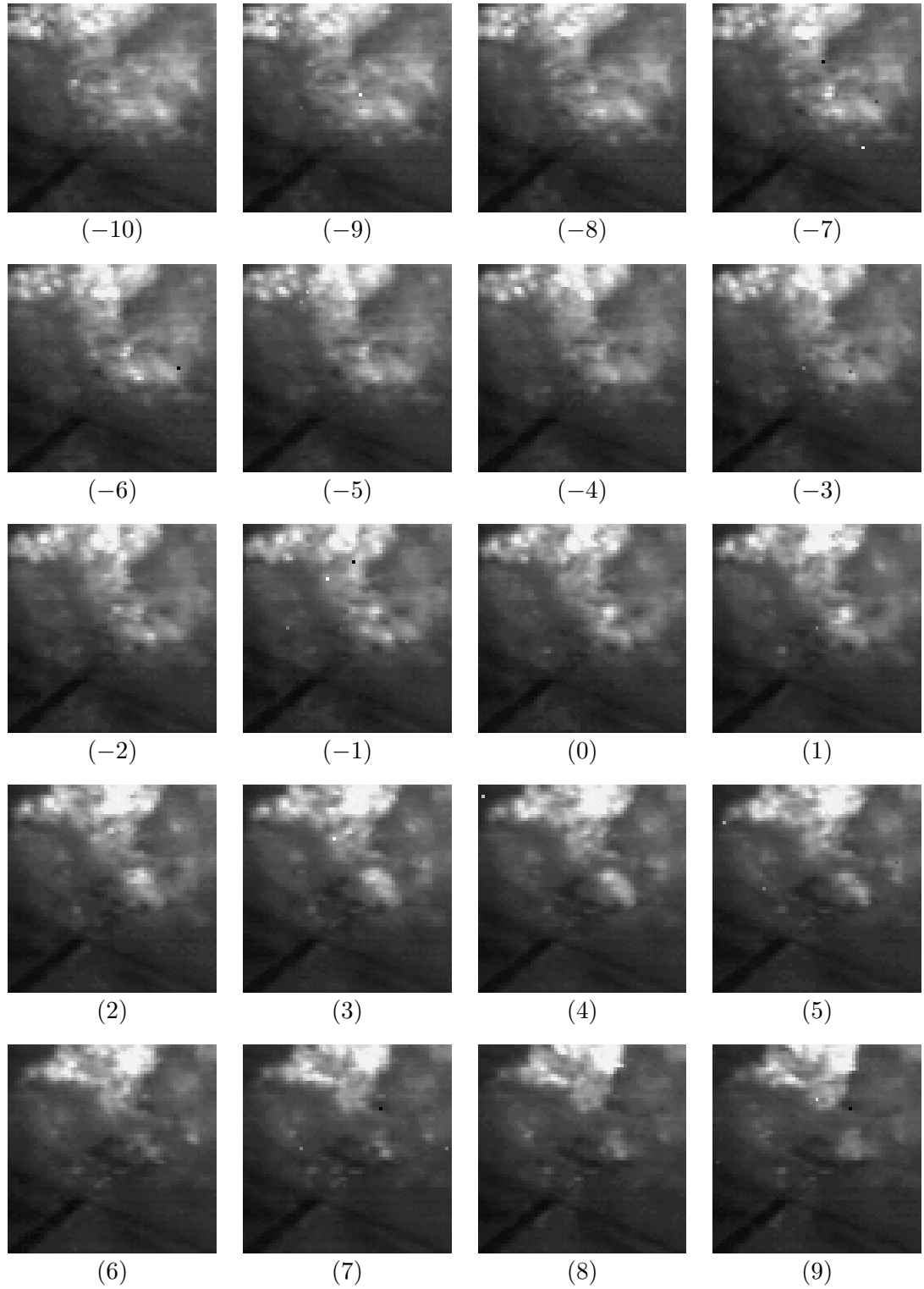


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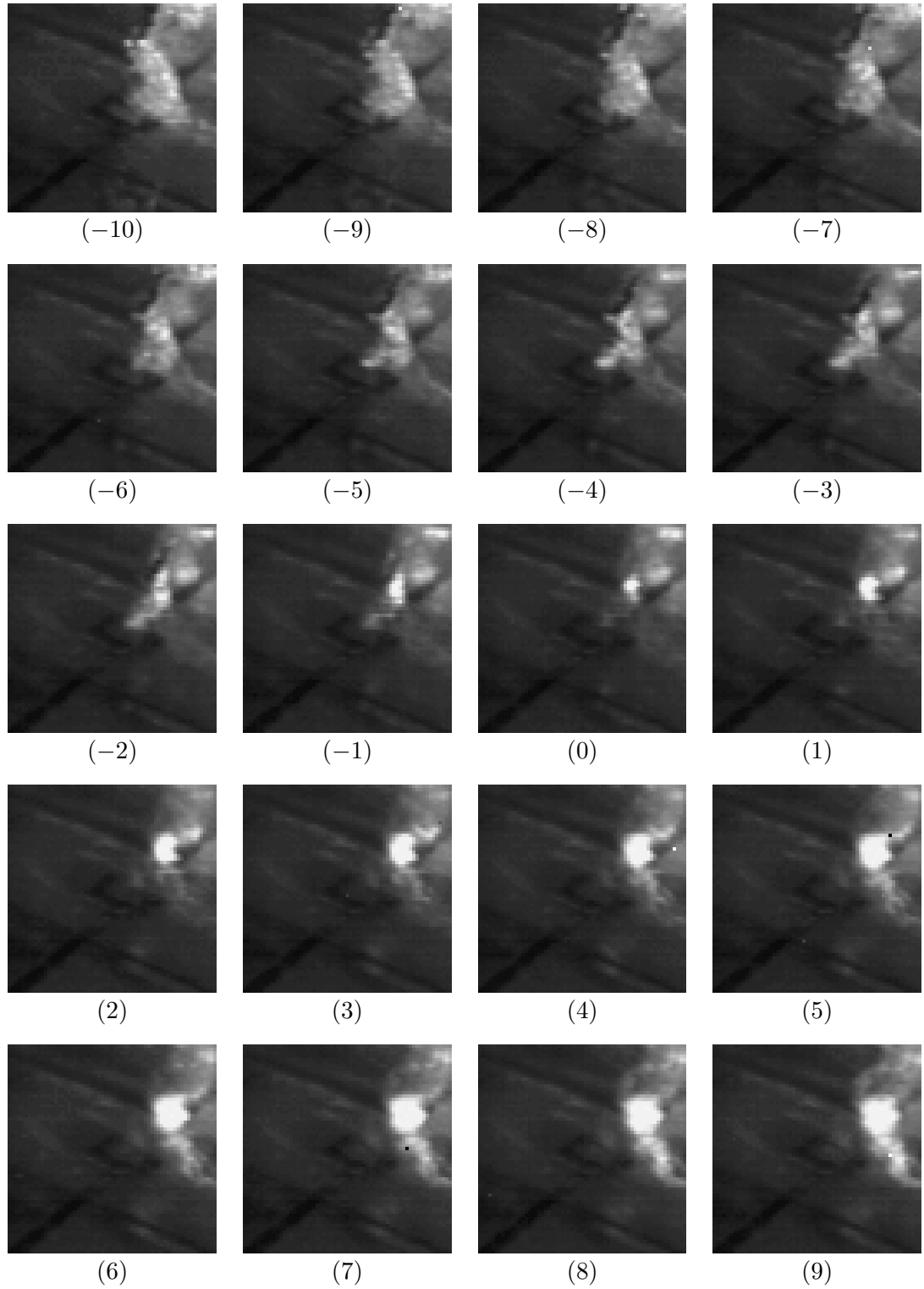


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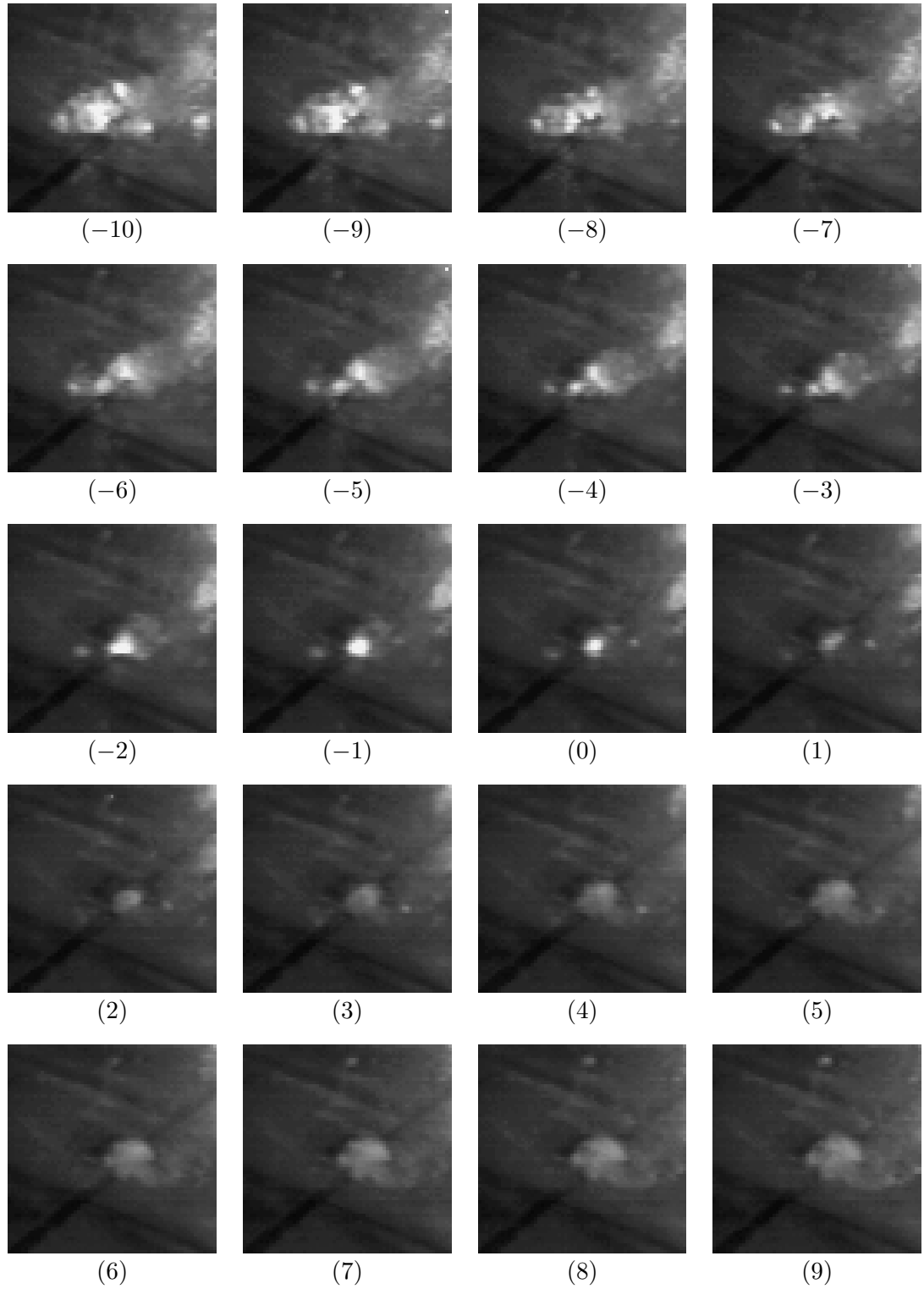


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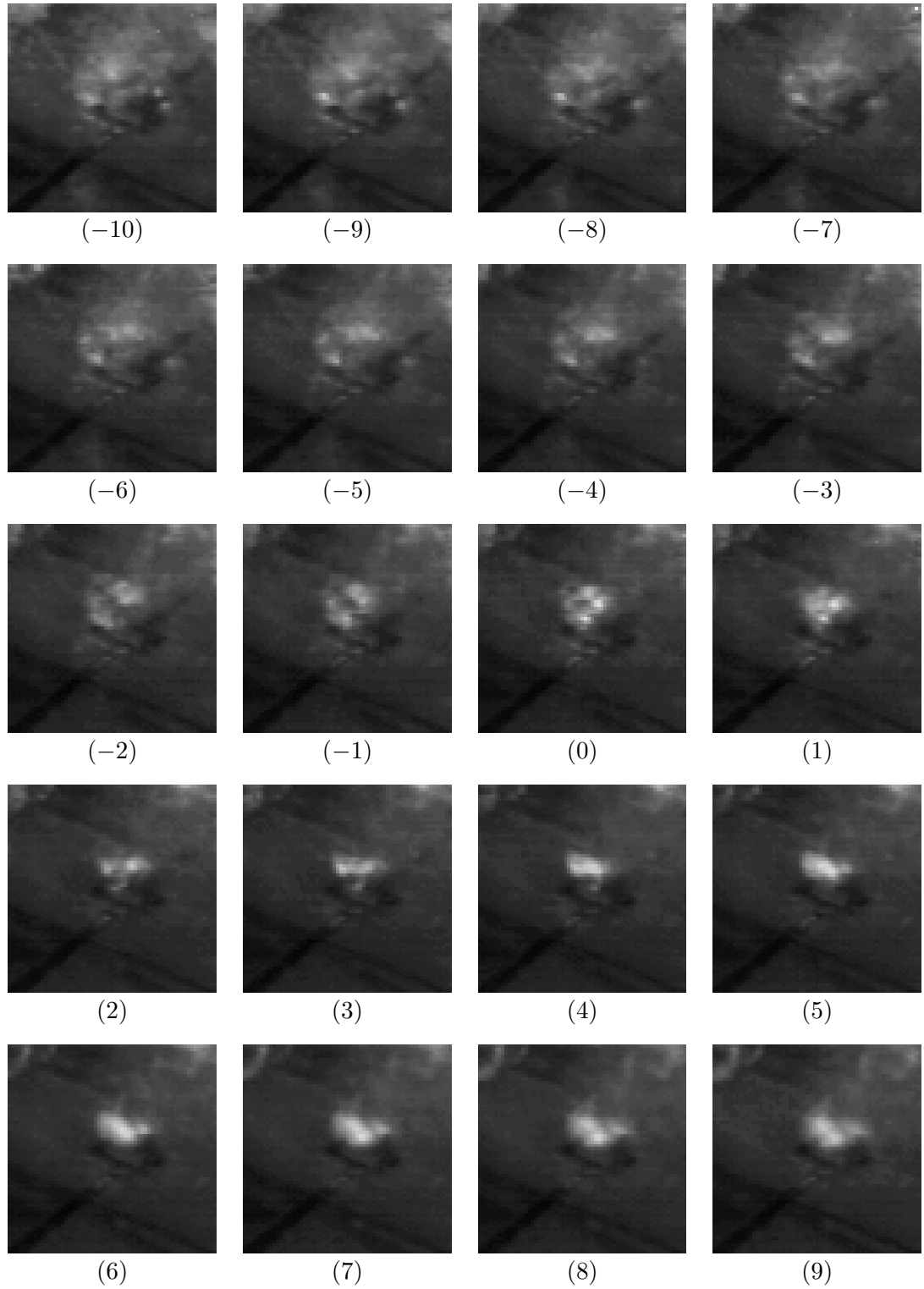


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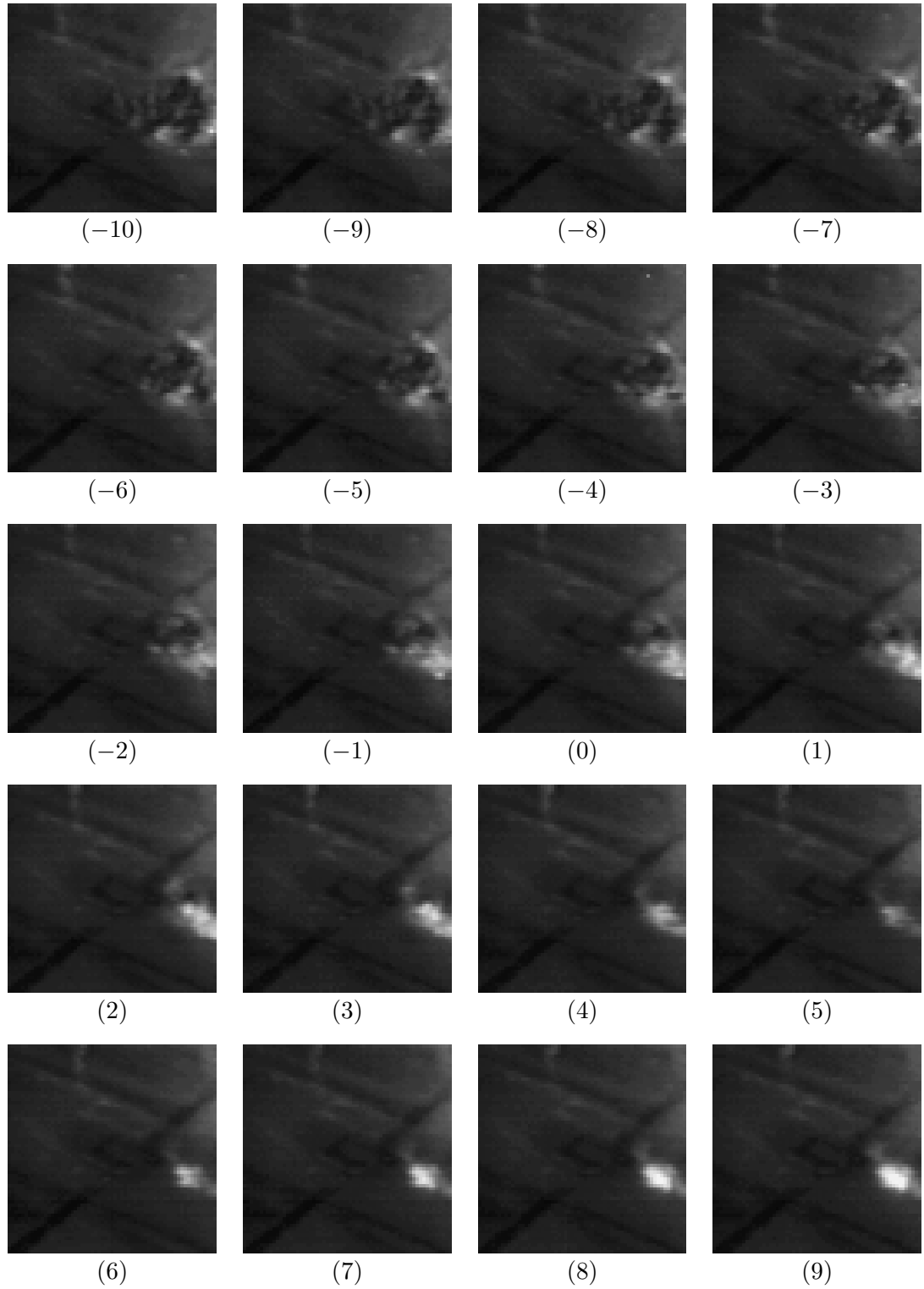


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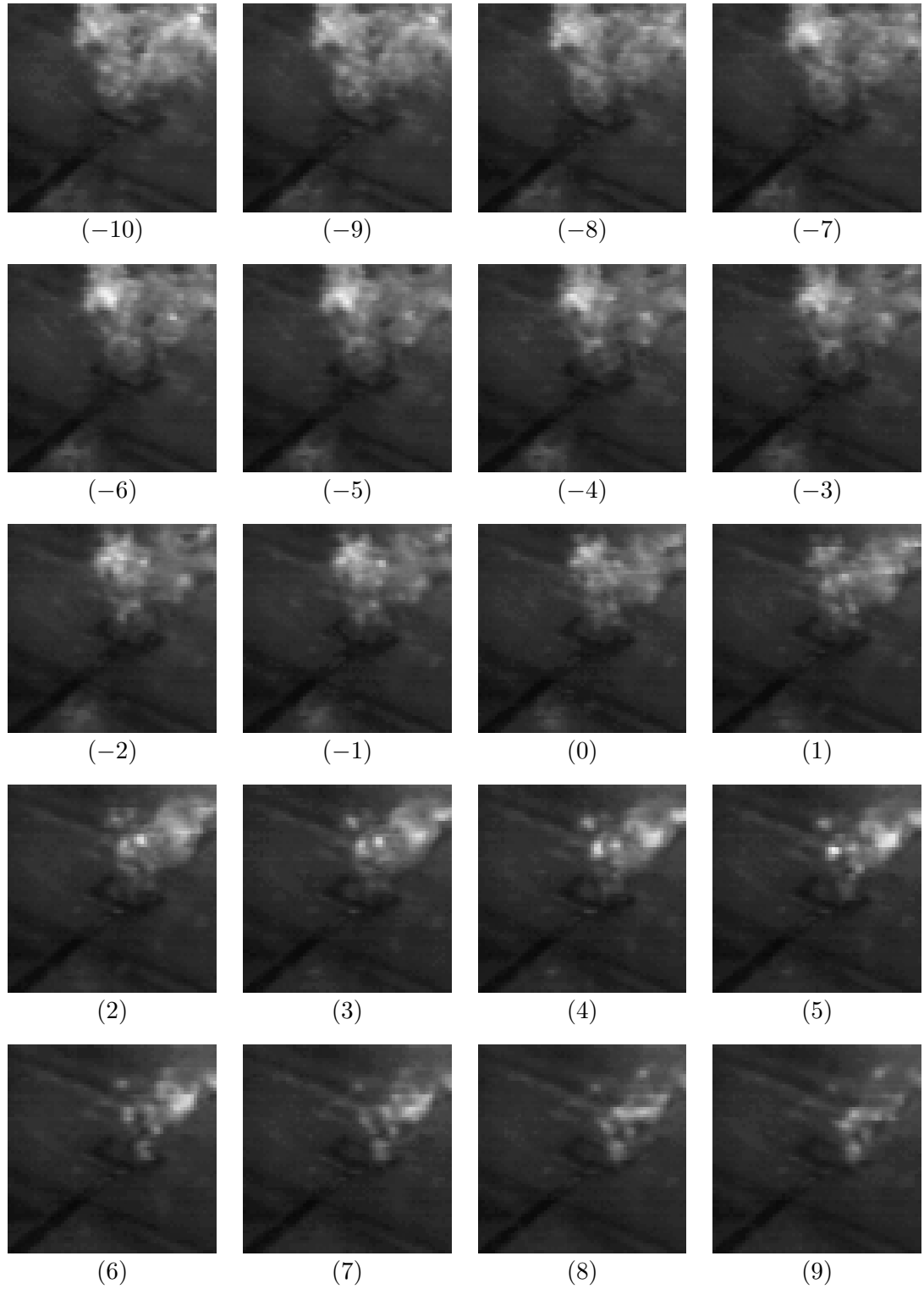


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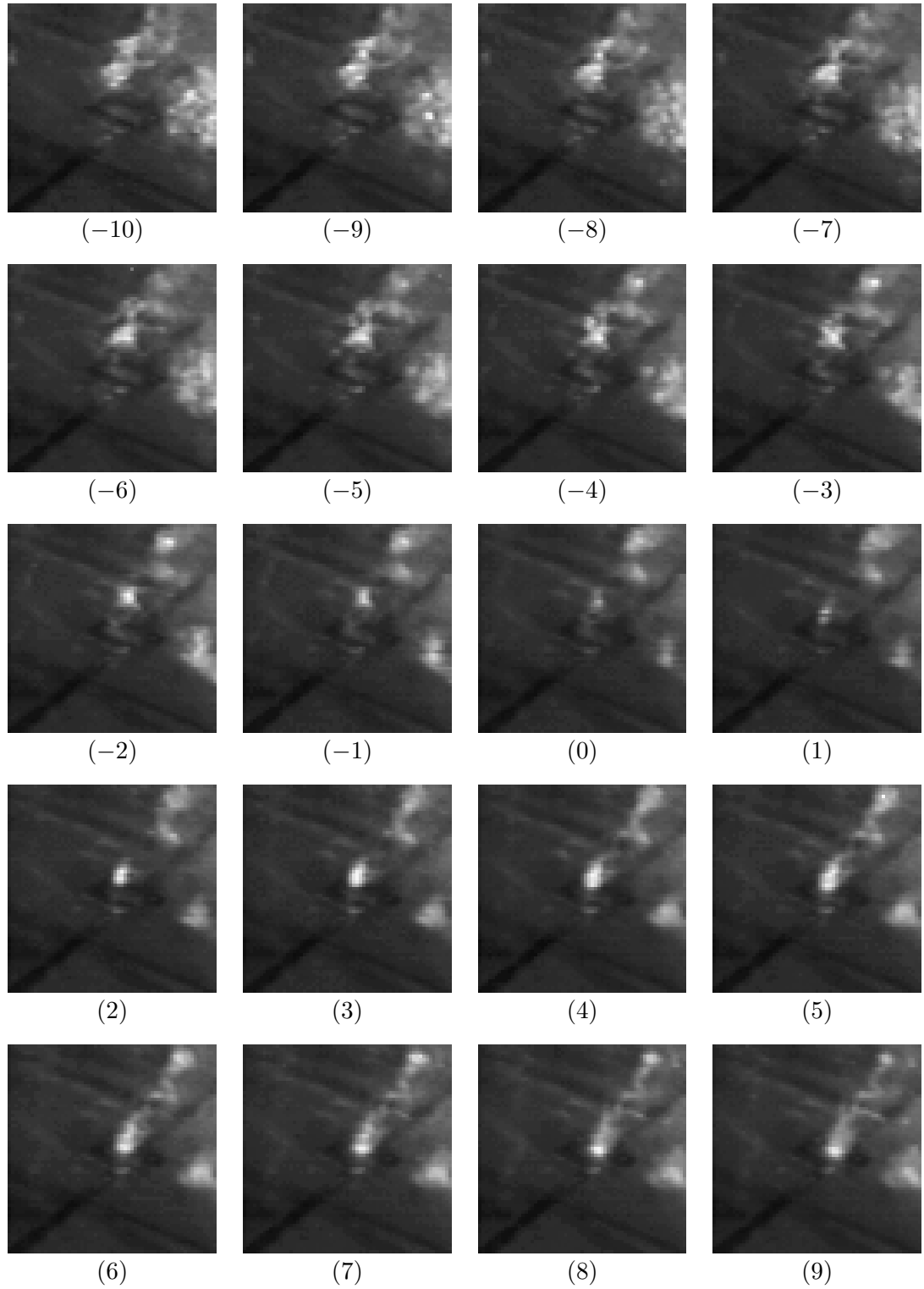


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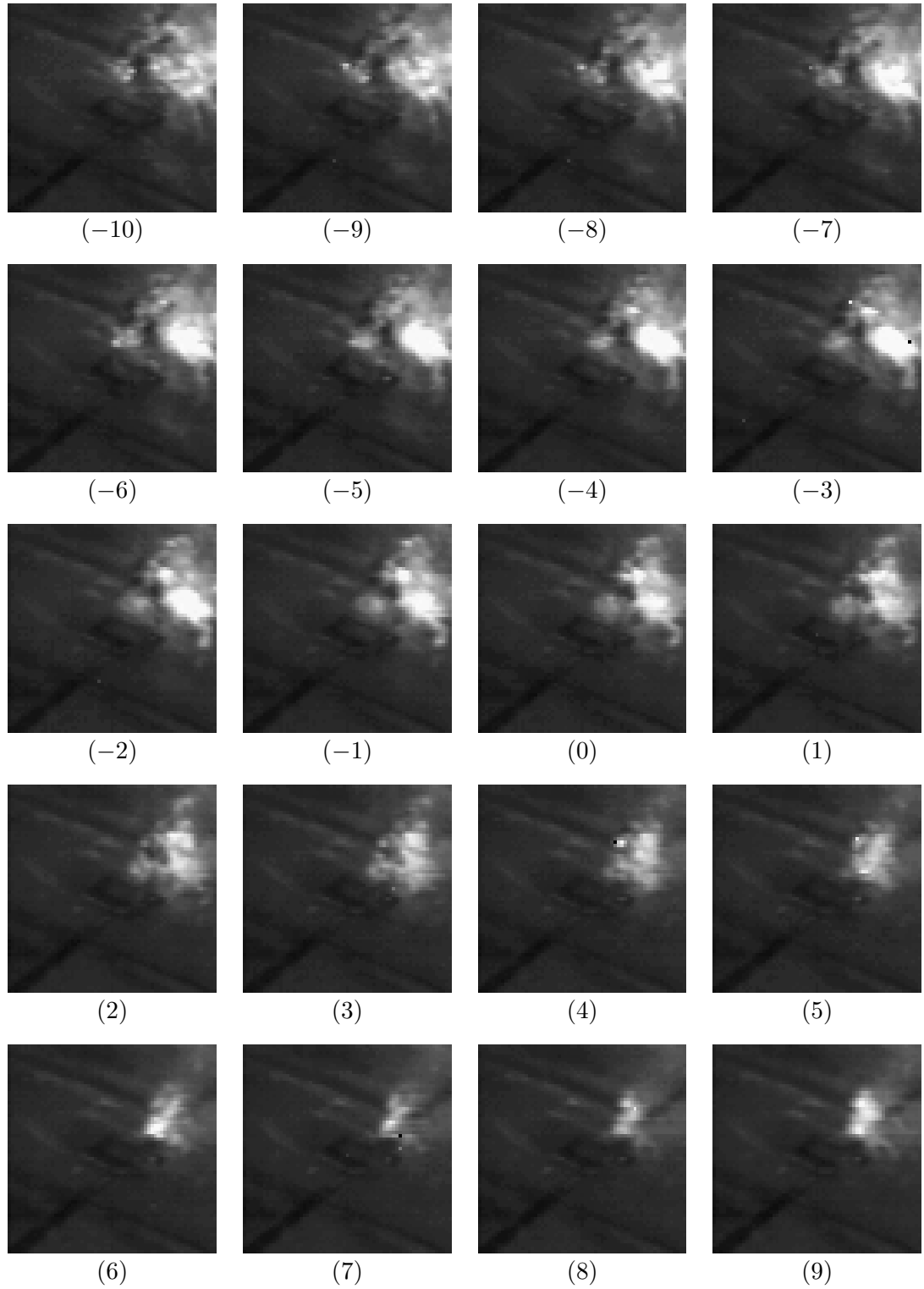


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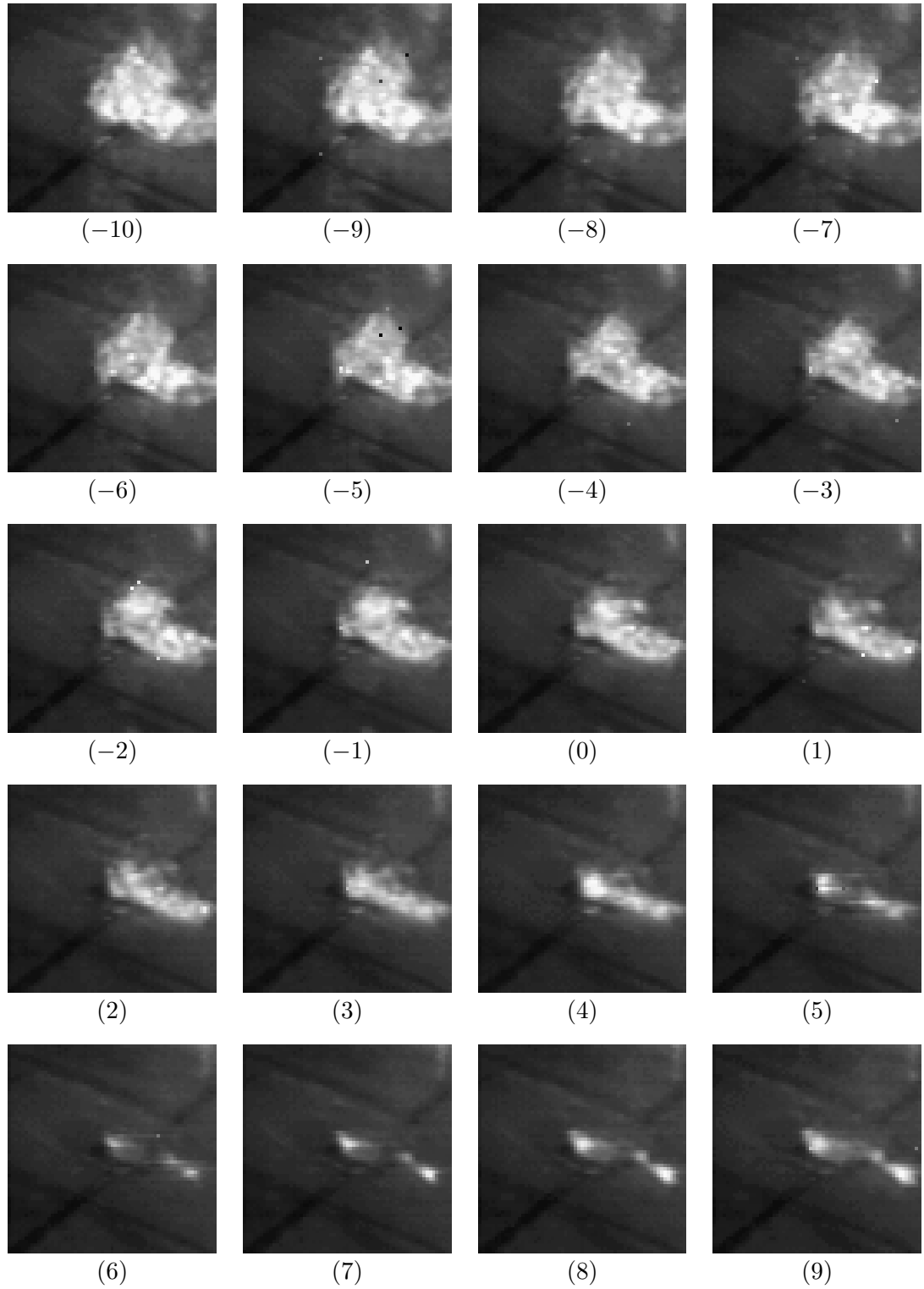


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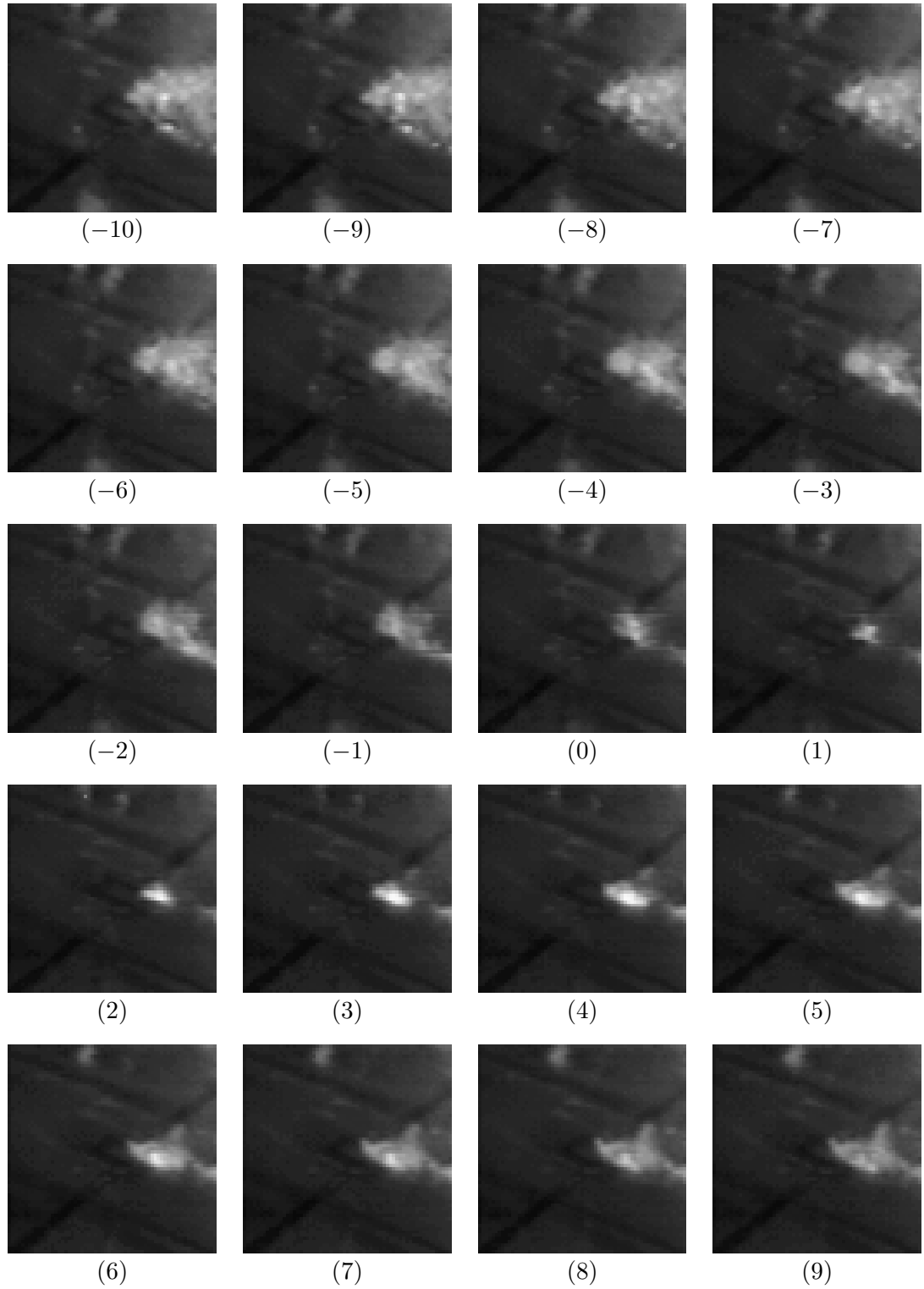


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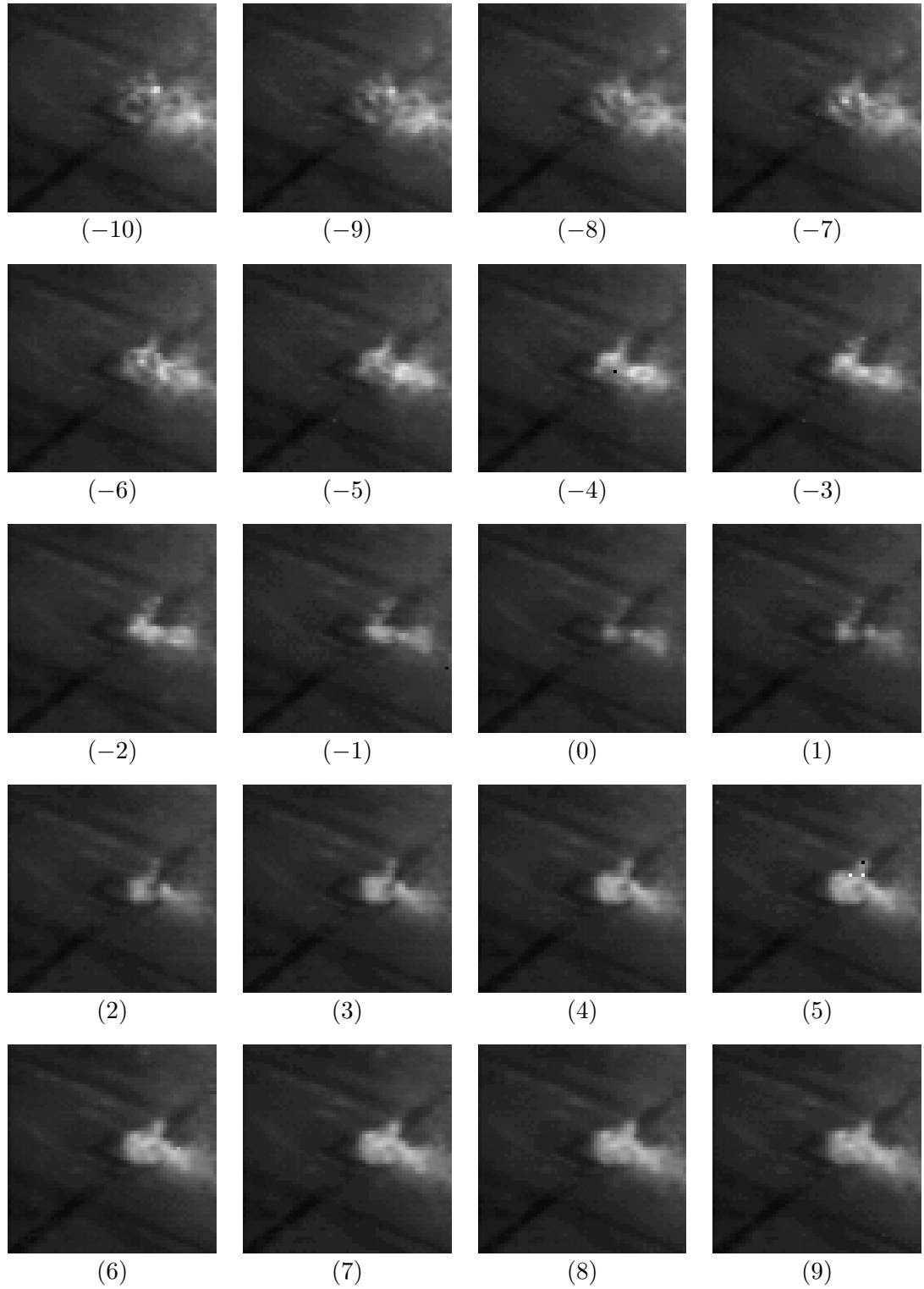


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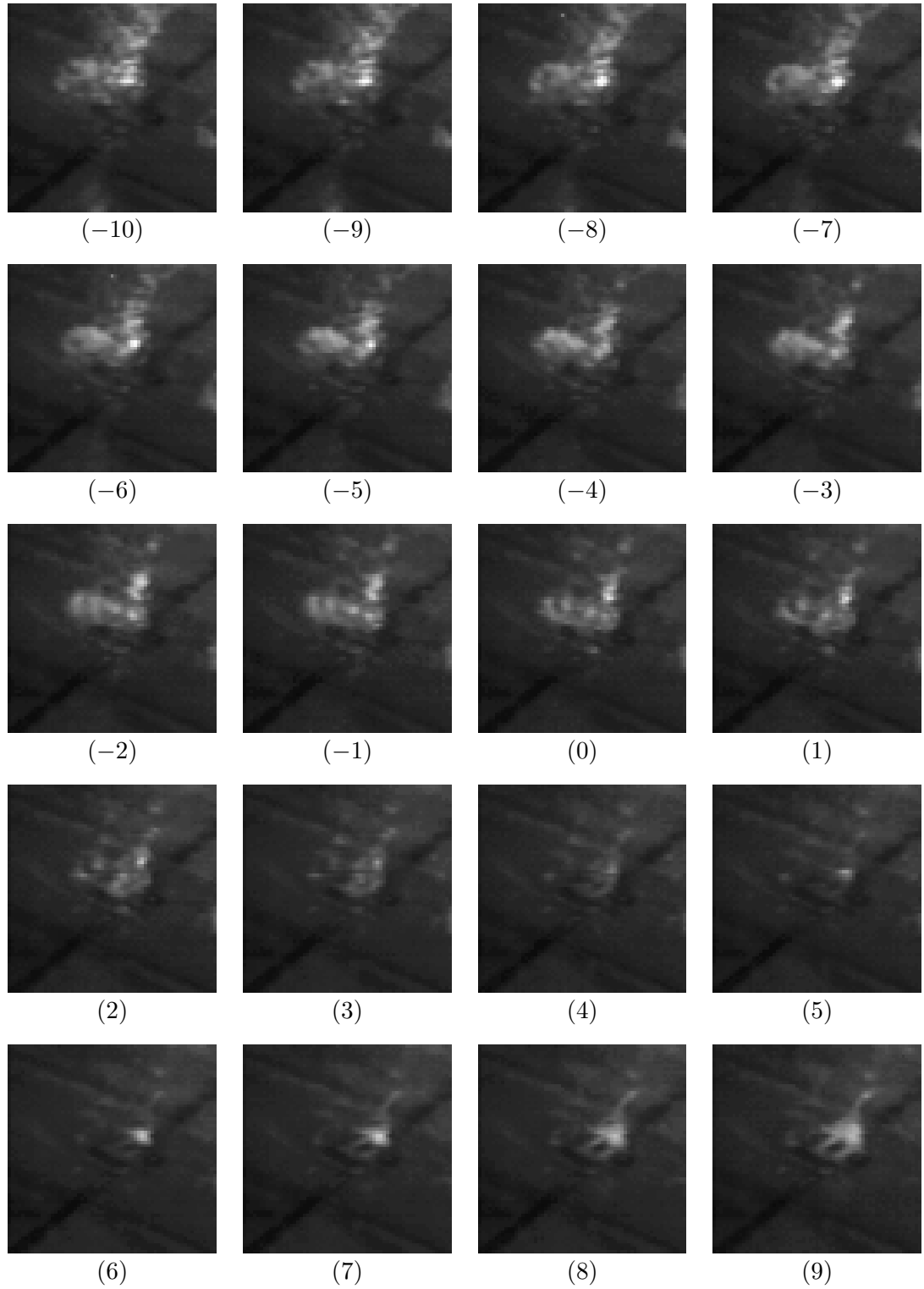


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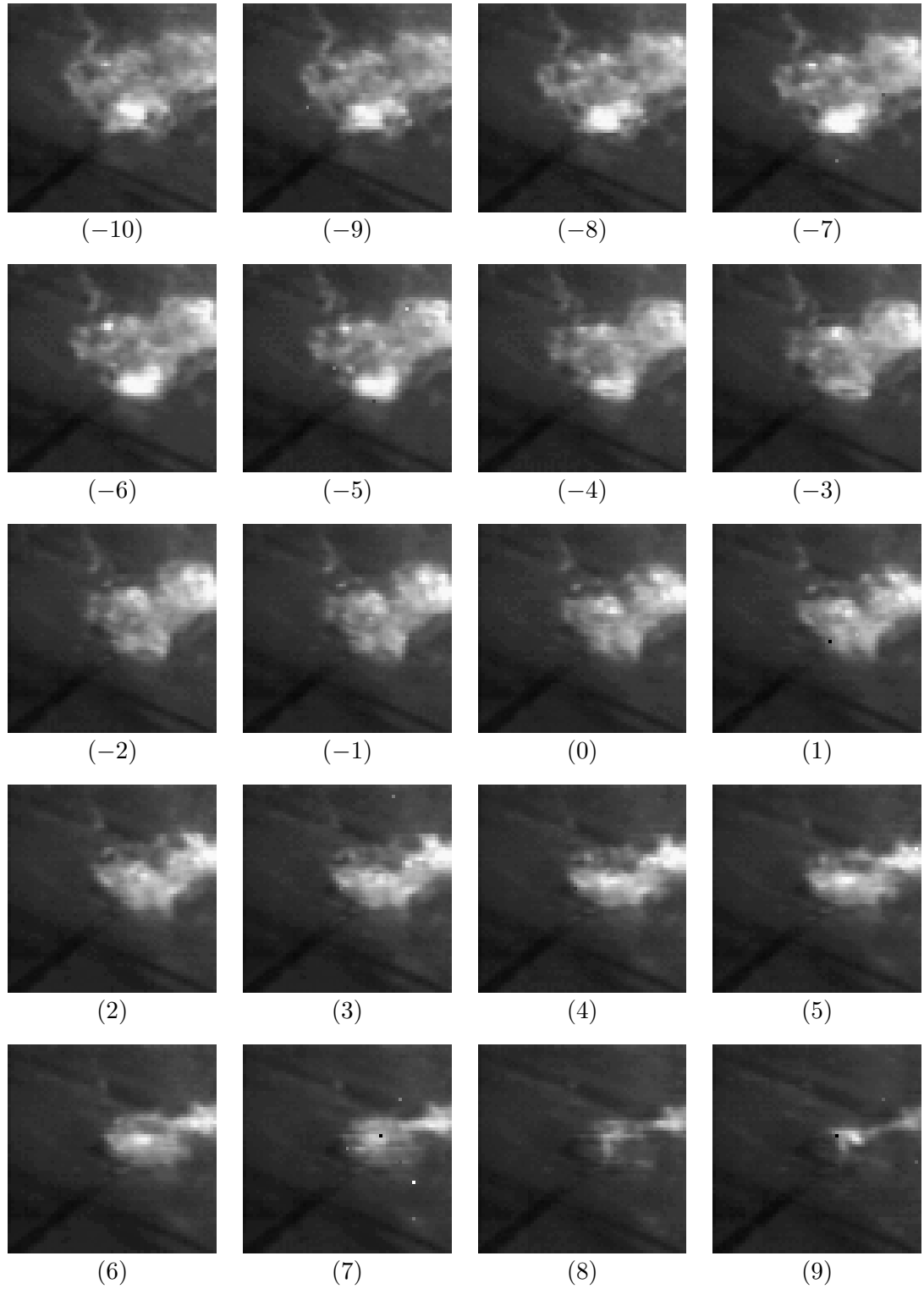


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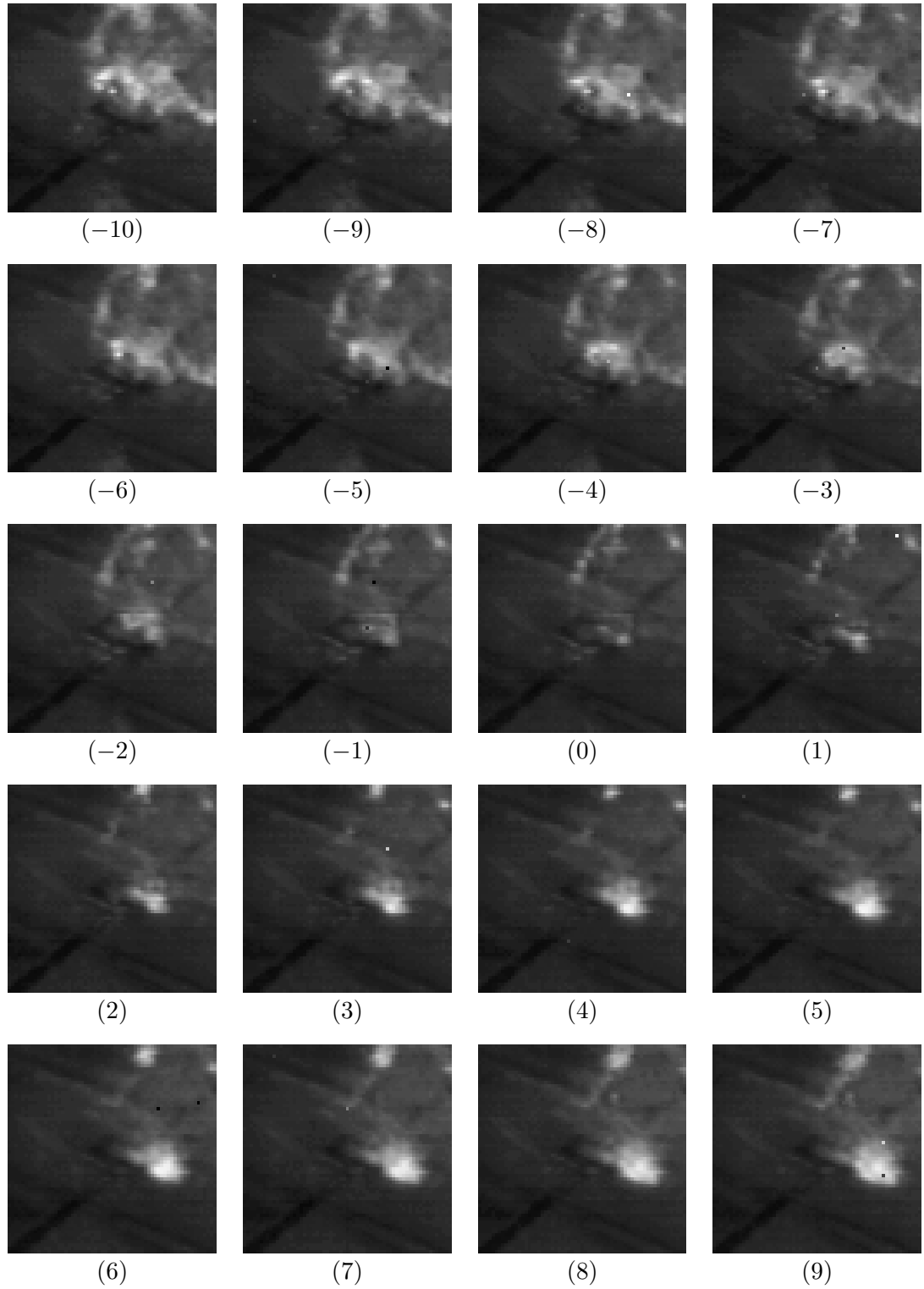


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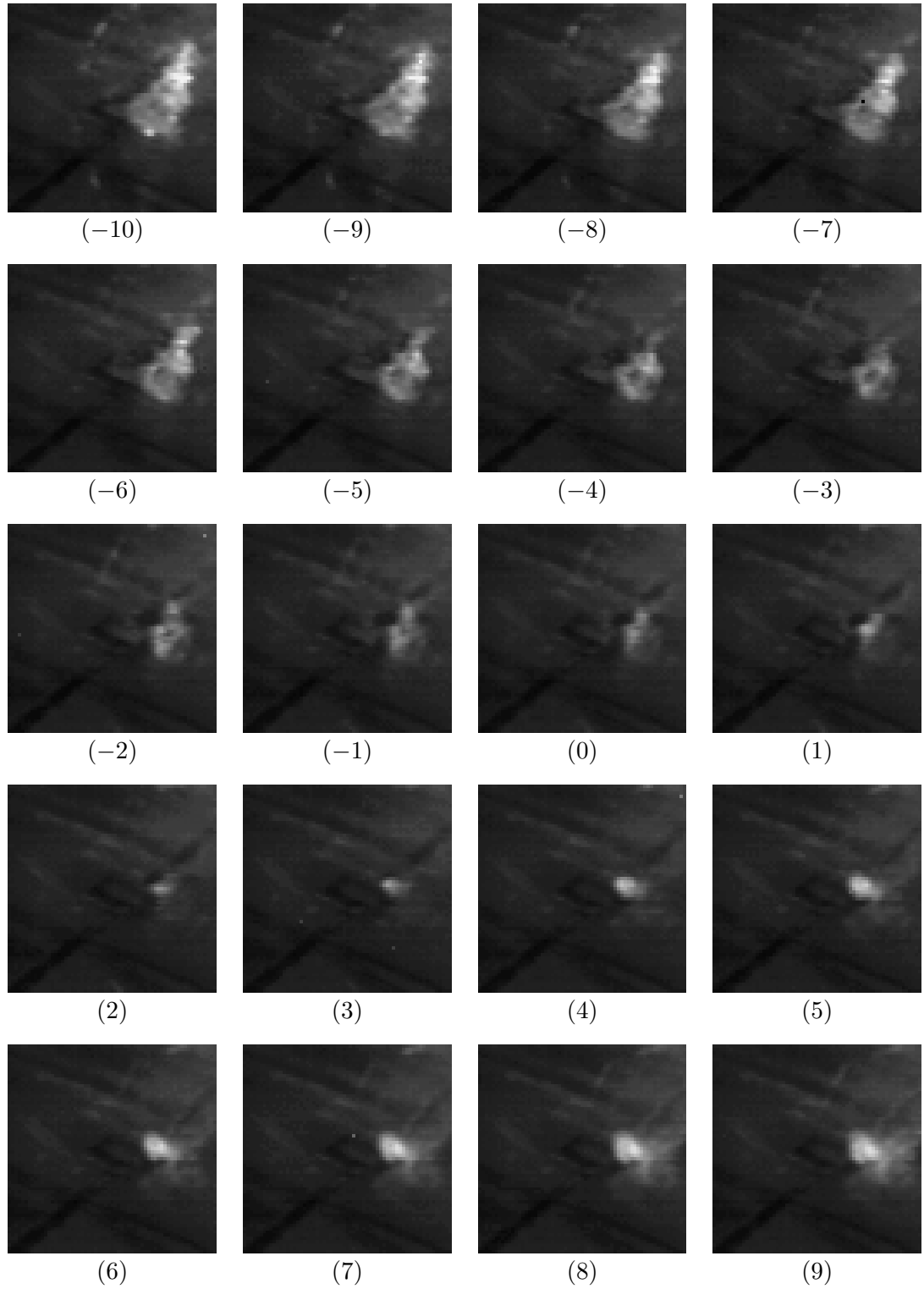


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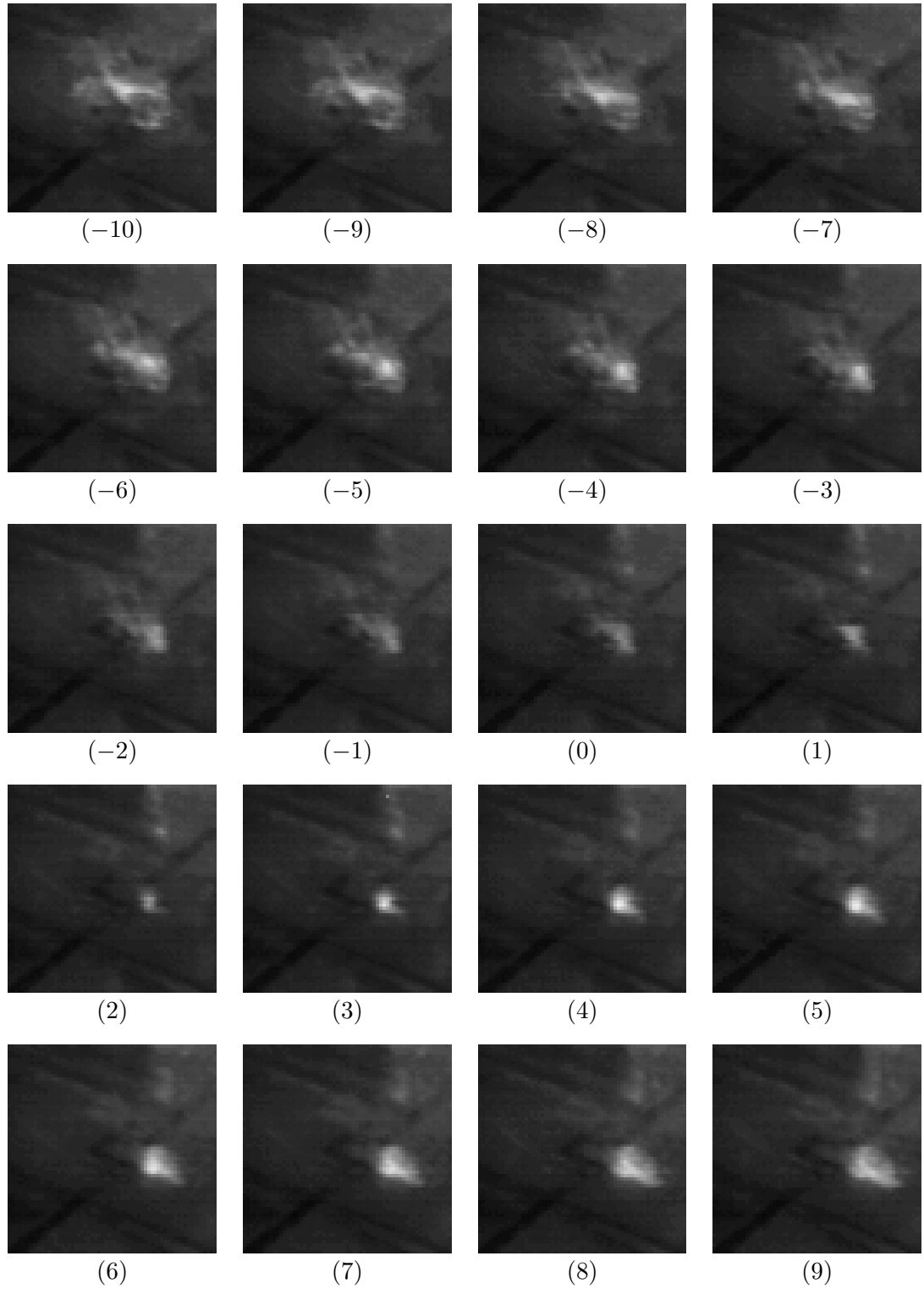


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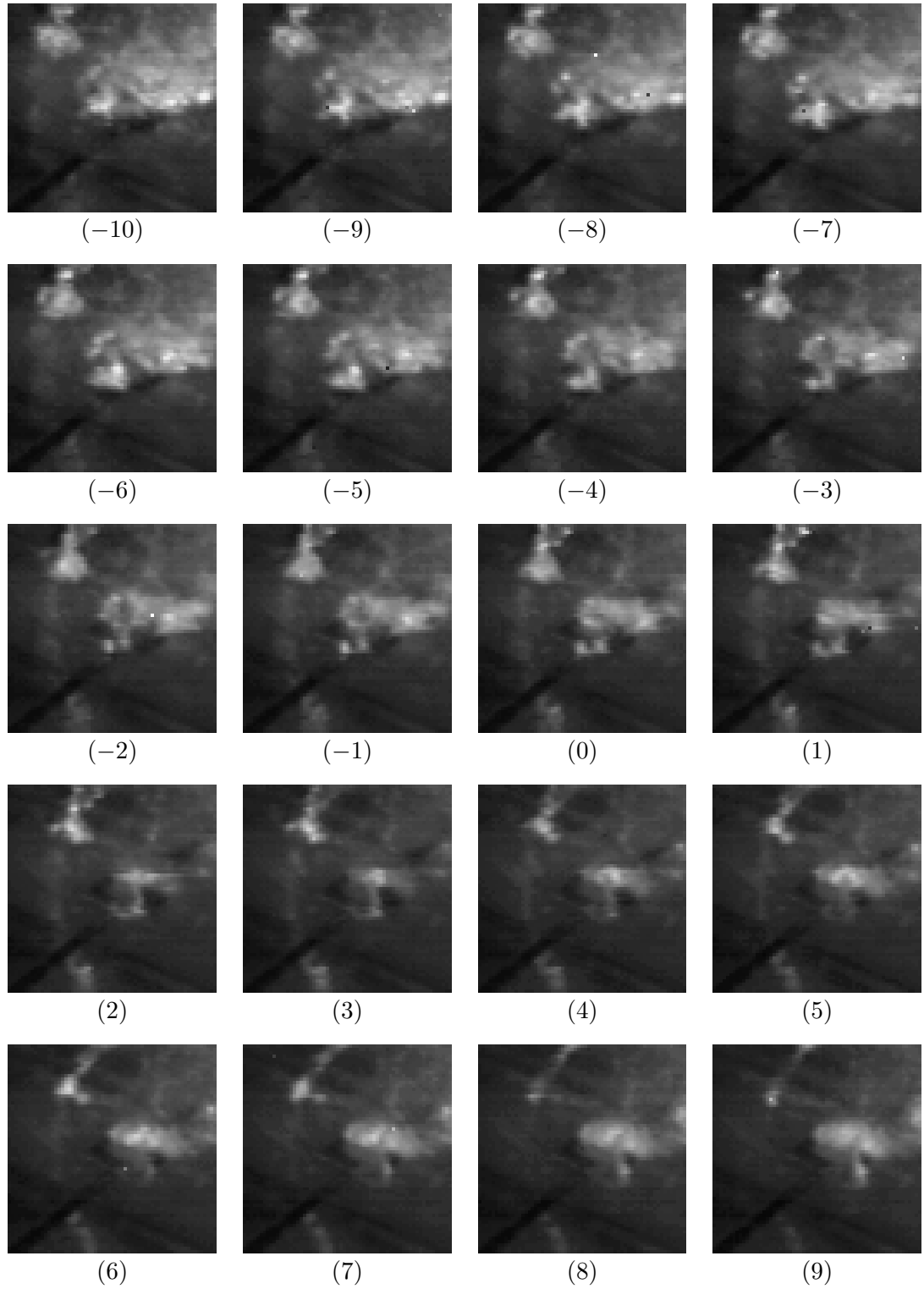


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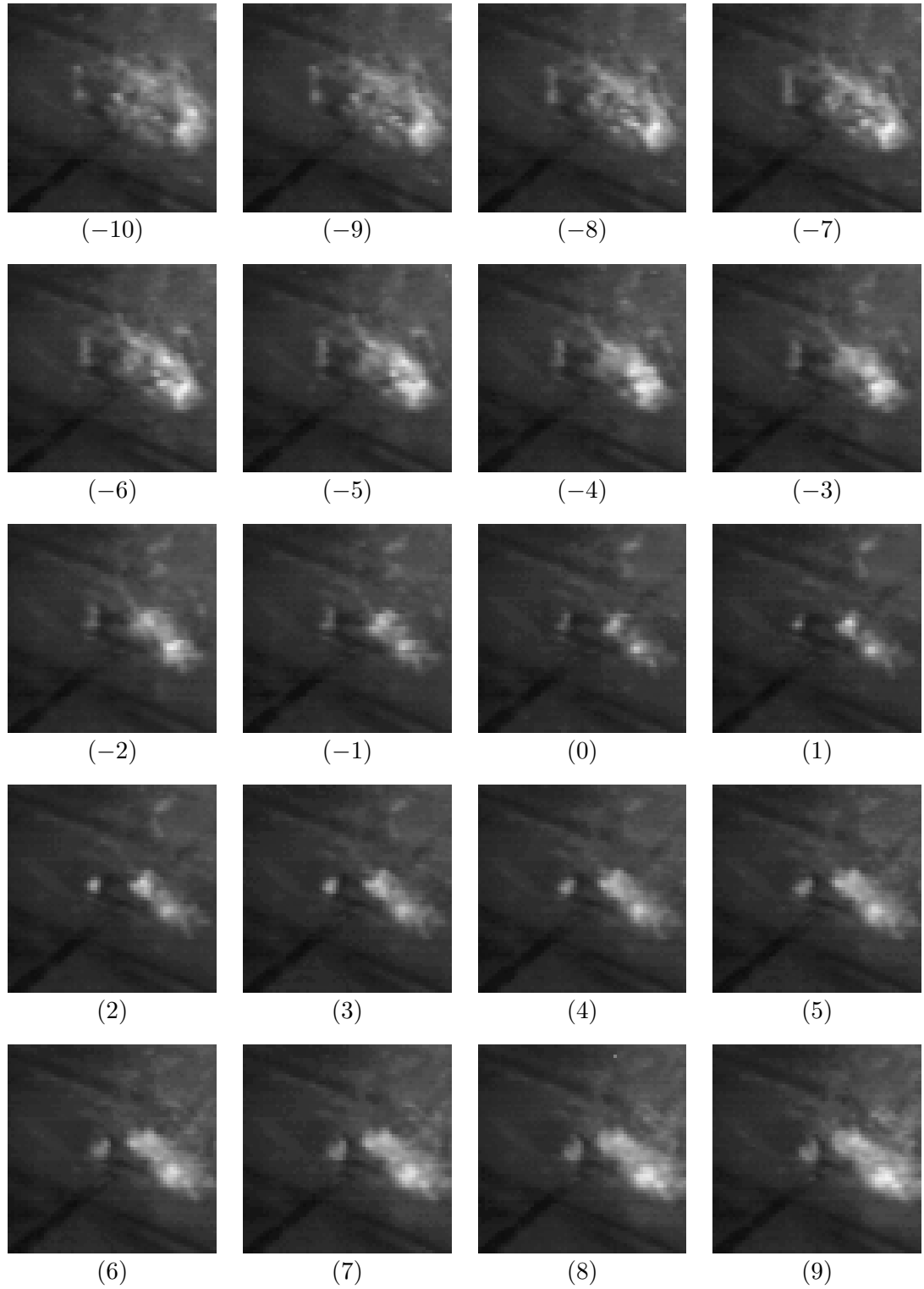


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