Crown molding miter and bevel chart

Compound miter-saw settings for 52/38 and 45/45 crown, with the molding flat on the saw table, wall corners 60° to 150°.

Crown molding miter and bevel settings, flat on the saw table

Wall corner	52/38 crown: miter	52/38 crown: bevel	45/45 crown: miter	45/45 crown: bevel
60°	46.8°	43°	50.8°	37.8°
65°	44°	41.7°	48°	36.6°
70°	41.3°	40.2°	45.3°	35.4°
75°	38.7°	38.7°	42.7°	34.1°
80°	36.3°	37.1°	40.1°	32.8°
85°	33.9°	35.5°	37.7°	31.4°
90°	31.6°	33.9°	35.3°	30°
95°	29.4°	32.2°	32.9°	28.5°
100°	27.3°	30.4°	30.7°	27°
105°	25.3°	28.7°	28.5°	25.5°
110°	23.3°	26.9°	26.3°	23.9°
115°	21.4°	25°	24.3°	22.3°
120°	19.6°	23.2°	22.2°	20.7°
125°	17.8°	21.3°	20.2°	19.1°
130°	16°	19.5°	18.2°	17.4°
135°	14.3°	17.6°	16.3°	15.7°
140°	12.6°	15.6°	14.4°	14°
145°	11°	13.7°	12.6°	12.3°
150°	9.4°	11.8°	10.7°	10.5°

Miter = arctan(sin S ÷ tan(C ÷ 2)) and bevel = arcsin(cos S × cos(C ÷ 2)), where C is the wall corner and S the crown’s spring angle (38° for 52/38 crown, 45° for 45/45), to 0.1°.