

| $0^\circ$    | $30^\circ$   | $45^\circ$   | $60^\circ$   | $90^\circ$   | $120^\circ$  | $135^\circ$  | $150^\circ$  |
|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| $180^\circ$  | $210^\circ$  | $225^\circ$  | $240^\circ$  | $270^\circ$  | $300^\circ$  | $315^\circ$  | $330^\circ$  |
| $360^\circ$  | $390^\circ$  | $405^\circ$  | $420^\circ$  | $450^\circ$  | $480^\circ$  | $495^\circ$  | $510^\circ$  |
| $540^\circ$  | $570^\circ$  | $585^\circ$  | $600^\circ$  | $630^\circ$  | $660^\circ$  | $675^\circ$  | $690^\circ$  |
| $-0^\circ$   | $-30^\circ$  | $-45^\circ$  | $-60^\circ$  | $-90^\circ$  | $-120^\circ$ | $-135^\circ$ | $-150^\circ$ |
| $-180^\circ$ | $-210^\circ$ | $-225^\circ$ | $-240^\circ$ | $-270^\circ$ | $-300^\circ$ | $-315^\circ$ | $-330^\circ$ |

|                   |                   |                   |                  |                   |                    |                   |                   |
|-------------------|-------------------|-------------------|------------------|-------------------|--------------------|-------------------|-------------------|
| $0\pi$            | $\frac{\pi}{4}$   | $\frac{\pi}{6}$   | $\frac{\pi}{3}$  | $-\frac{\pi}{4}$  | $-\frac{\pi}{6}$   | $-\frac{\pi}{3}$  | $\frac{10\pi}{3}$ |
| $\pi$             | $\frac{3\pi}{4}$  | $\frac{5\pi}{6}$  | $\frac{2\pi}{3}$ | $-\frac{3\pi}{4}$ | $-\frac{5\pi}{6}$  | $-\frac{2\pi}{3}$ | $\frac{11\pi}{3}$ |
| $2\pi$            | $\frac{5\pi}{4}$  | $\frac{7\pi}{6}$  | $\frac{4\pi}{3}$ | $-\frac{5\pi}{4}$ | $-\frac{7\pi}{6}$  | $-\frac{4\pi}{3}$ | $\frac{\pi}{2}$   |
| $3\pi$            | $\frac{7\pi}{4}$  | $\frac{11\pi}{6}$ | $\frac{5\pi}{3}$ | $-\frac{7\pi}{4}$ | $-\frac{11\pi}{6}$ | $-\frac{5\pi}{3}$ | $\frac{3\pi}{2}$  |
| $-\frac{\pi}{2}$  | $-\frac{\pi}{4}$  | $\frac{13\pi}{6}$ | $\frac{7\pi}{3}$ | $\frac{9\pi}{4}$  | $\frac{13\pi}{4}$  | $\frac{19\pi}{6}$ | $\frac{5\pi}{2}$  |
| $-\frac{3\pi}{2}$ | $-\frac{3\pi}{4}$ | $\frac{17\pi}{6}$ | $\frac{8\pi}{3}$ | $\frac{11\pi}{4}$ | $\frac{15\pi}{4}$  | $\frac{23\pi}{6}$ | $\frac{7\pi}{2}$  |