

! " #

\$%&') ' * +1980, - . / O1! ' 234“5678”" 2
349, : ; <=>?' 234@>A==B' CD' EF* GH-
I J KLMNOQRSTUVWXYZ; WXZ[\] ^_abcdefg;
Whb] Vi j k-

Al mn

2009.09—2013.06' op: ; qA' QR: Ar st AuQRv
sst wxAl ' ysAEFAz {

2003.09—2006.06' op>sqA' } ~stAu} ~] st
wxAl ' ysA FAz {

1999.09—2003.06' qA'} ~Au} ~] st wxAl '
ysAAFAz {

I J: K h

1a: K

X1_I : A ' m 58 {

X2_I : A ' m 47 {

X3_I 234 K ' m 15 {

X4_I x N 4 ' m 93 {

X5_I 2 ' m 9 {

X6_I 234C : ; ' m 2 -

2ay w D 4 ' FBGbc b

Vi hVi M a + b M

\ + b gVi \ a +M

LED fgk -

3ay

X1_y234“5678” ' ! {

X2_y234 " A # \$ X: A; W_%" ' .

! 5-

X3_2018 , ! &' (234# \$AW) * " ' ! % {

X4_2016 , ! &+ (234# \$AW) * %" ' ! -

4aw,

\$%&' - . / b] UV O h12Xw, _'] sx3

45' 400 67' 2018.12

5a 8 SCI 9:) *

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注: *为通讯作者