1*/2$'3/(4B!7+'(!-+88/*3>!]/'(.&8>!!
! YDEDEZ>!\-O![$&8(6!-+))./*0&(/+*!#/2/3/+*B!\&(/+*&8!
-+))./*0&(/+*!O33+0/&(/+*!0+*,$'$*0$B!]/'(.&8>!
>!YDE"JZ>!\&(/+*&8!-+))./*0&(/+*!O33+0/&(/+*>!
[$&8(6!-+))./*0&(/+*!#/2/3/+*>!!
!YDE"KZ>!\-O![$&8(6!-+))./*0&(/+*!^&'84!-&'$$'!?'$0+*,$'$*0$!
DE"KB!\&(/+*&8!-+))./*0&(/+*!O33+0/&(/+*!0+*,$'$*0$B!?6/8&9$8%6/&B!?O>!
W&!'$0+I*/(/+*!,+'!)$*(+'/*I!)&3($'_3!3(.9$*(3X>YDEDEB!DE"JB!
DE"QB!DE"KB!DE""Z>!#$%&'()$*(!+,!-+))./*0&(/+*B!1*/2$'3/(4!+,!5+.(6!78+'/9&>!!
YDE"TZ>C*($'0.8(.'&8!-+))./*0&(/+*!#/2/3/+*B!5+.(6$'*!5(&($3!
-+))./*0&(/+*!O33+0/&(/+*>!
YDE""Z>!5+.(6$'*!5(&($3!
-+))./*0&(/+*!O33+0/&(/+*>!!
!YDEEJZ>!O%%8/$9!-+))./*0&(/+*!#/2/3/+*B!5+.(6$'*!
5(&($3!-+))./*0&(/+*!O33+0/&(/+*>!!
!YDEEJ:DE"EZ>

5%+(8/I6(!506+8&'›! - +)) . */0&(/+*!5(. 9/$3!#$%&'( ) $*(›! 1 */2$'3/(4!+,!M$+' I/&B!
MO›
b $4*+($›!Ya . *$!DE"JZ›!
! \ - O!#+0(+'&8! [+*+'3!5$) /*&'B! 1 */2$'3/(4!+,!
5+ . (6!78+'/9&B!R&) %&B!7A›!
?8$*&'4!YDE"TZ›! - +)) . */0&(/*I!,+'!5+0/&8! - 6&*I$;!C*($'3$0(/+*3!+,!R6$+'4!&*9!
?'&`/3!?8$*&'4!5$33/+*!CCC;! ›! \ &(/+*&8! 1 */2$'3/(4!+,!
5/*I&%+'$B!5/*I&%+'$›!
?8$*&'4!YDE"TZ›! - +)) . */0&(/*I!,+'!5+0/&8! - 6&*I$;!C*($'3$0(/+*3!+,!R6$+'4!&*9!
?'&`/3!?8$*&'4!5$33/+*!C;! ›!
\ &(/+*&8! 1 */2$'3/(4!+,!5/*I&%+'$B!5/*I&%+'$›!
!
!

91(1$%,:&&

&

;<&;0-1%1(-(&&

!

=$%%$-.>1(&/0&:1$8-:?&,)8-)%1?&$0+&"$%@.0$8.A$-./0;!G4!'$3$&'06!$`%8+'$3!6+V!
/*9/2/9 . &83!&*9!0+)) . */(/$3!8/2/*I!&(!(6$!) &'I/*3!+,!3+0/$(4!0+)) . */0&($!&<+ . (!6$&8(6B!
/88*$33B!&*9!V$88<$/*I›!@/(6!%&'(/0 . 8&'!$) %6&3/3!+*!(6$+'/d/*I!0 . 8(. '$!&3!&!3/($!+,!3+0/&8!
06&*I$B!C!9+0 .) $*(!&*9!&*&84d$!*&''&(/2$3!&<+ . (!6$&8(6!(6&(!$) $'I$!,'+) !9/&8+I . $!
<$(V$$*!) 43$8,!&3!(6$!'3&'06$'!&*9!'$3$&'06!%&'(/0/%&*(3›!G4!/*($'$3(!/3!(+!8+0&($!6$&8(6!
/*$e . /(/$3!/*!(6$!0+*($`(!+,!0 . 8(. '&8B!%+8/(/0&8B!$0+*+) /0B!I$+%+8/(/0&8B!&*9!9$2$8+%) $*(!
&I$*9&3!/*!) &'I/*&8/d$9!3%&0$3›!
&
91B81C.>.-6&$(&"1-:/+/8/@6;!^) <'&0/*I!&!) /`!+,!) $(6+93!3 . 06!&3!0'/(/0&8!$(6*+I'&%64!
&*9!& . (+$(6*+I'&%64B!) 4!'$3$&'06!6/I68/I6(3!(6$!/) %8/0&(/+*3!+,!f*+V8$9I$!%'+9 . 0(/+*!
/*!0+88&<+'&(/+*!V/(6!) &'I/*&8/d$9!0+)) . */($3›!C!%&4!%&'(/0 . 8&'!&(($*(/+*!(+!6+V!) 4!
%+8/(/03!&*9!%'/2/8I3!/) %&0(!) 4!'3&'06›!5$8,:'$,8$`/2/(4!/3!&*!/*($I'&8!8$*3g) $(6+9!(6&(!
36&%$3!) 4!'$3$&'06›!
›!
&
;;<&7)#8.,$-./0(&&
&

&
O›!?$$':'$2/$V$9!a+ . '*&8!O'(/08$! ! ! ! ! ! ! ! !
!
DJ›!5&3('4B!5›B!5/I*(6&8$'hB!H›B!G . f6$'i$$hB!?›B!S&6$$) B!5›Oh›B!&*9!H&3 . B!O›!YDEDPZ›!
R6$!Y) /3Z . 3$3!+,!0+)) . */(4;!O!0'/(/0&8!&*&843/3!+,!%. <8/0!6$&8(6!0+)) . */0&(/+*!,+'!
-U]C#:"J!2&00/*&(/+*!/*!(6$!1*/($9!5(&($3›![.) &*! - +)) . */0&(/+*!S3&'06B!9+/;!
6((%3;gg9+/›+'Ig"E›"EJPg60'g6e&9E"F!
!

DF›!5(&*8$4B!Ah›B! j !H&3.B!O›!YDEDPZ›! - 6$) /0&8!i&/8k;! - .8(.'$:0$*($'$9!(6$+'/d/*I!+,!
0&'0$'&8/(4!/*!) $(6&9+*$!) &/*($*&*0$!('$&( ) $*(!&*9!&99/0(/+*!'$0+2$'4!/*!(6$! 1›5›!
B!9+/;!"E›"EFEgEEJEJFFD›DEDP›D"FEQQE!

!

"P›!S+<<B!a›5›B! j !H&3.B!O›!YDEDDZ›!5.'2/2&8!&I&/*3(!+993;!1*9+0.)$*($9!/) /I'&*(3!&*9!
0+)).*/0&(/+*!&<+.(!%+8/0/$3!&*9!&00$33!(+!6$&8(6!0&'$!/*!(6$!1*/($9!5(&($3›!C*!#›b›#›!
b/)B! j !M›A›!b'$%3!Y^93
!Y%%›!NF:KDZ›!\$V!o+'f;!S+.(8$9I$!!
!
"D›!H&3.B!O›B!#/88+*B!?›a›B!5&3('4B!5›B! j !b$(6$$3V&'&*B!\›h!YDEDEZ›![C]!9'.I3!8/f$!)4!
</'(6!0+*('+8!%/88;!A/2$9!*&''&(/2$3!+,!H8&0f!&*9!A&(/*+!G5G!/*!&*!.'<&*!O) $'/0&*!
0+*($`(›!!C*!O›S›!5%/$89$**$'B! j !5›!

P›!H+9/$B!M›B!#.((&B!G›a›B! j !H&3.B!O›!YDEEJZ›!R6$!/*($I'&(/2$!) +9$8!+,!$:6$&8(6!.3$›!C*!O›!
A&d&f/9+.B! j !b›!G›!5/&33/&f+3!Y^93›ZB!
Y%%›!"EN:"EKZ [$'36$4B!?O;!C*,+') &(/+*!50/$*0$!S$,$'$*0$gCMC!
M8+<&8›!
&
D›!#$!5+.d&B!S›B!H&3.B!O›B! b /) B!C›B!H&3*4&(B!C›B! j !#.((&B!G›a›!YDEEFZ›!@6+!&I'$$9!(+!(6$!
*$+8/<$'&8!('&9$!&I'$$) $*(3p!O!9/30.33/+*!+,!(6$!/) %&0(!+,!n,&/'!('&9$k!+*!(6$!6$&8(6!+,!
) &'I/*&8/d$9!0+)) .*/(/$3›!C*!G›a›!#.((&B! j ![›! l +88$'!Y^93›ZB!

TP›!H&3.›!O›!ŸDEDPŽ›!-6&/'›!S3&'06!?&%$'!5$3

N">!H&3.B!O>!YDE"JZ>! - 6&/'>!?&*$8;! - '+33/*I!<+.*9&'/$3B!0+**$0(/*I!9+) &/*3;!^2+82/*I!
/33.$3!&*9!%'+) /3/*I!(+%/03!/*!6$&8(6!0+)) .*/0&(/+*>!
!0+*,$'$*0$B!@&36/*I(+*!# ->!
!
NE>!H&3.B!O>!YDE"FB! \ +2$) <$'Z>!#/30.33&*(>!?&*$8;!n#+/*Ik!0'/(/0&8!6$&8(6!
0+)) .*/0&(/+*;!?8&4/*I!V/(6!) $(6+93>!
!0+*,$'$*0$B!
5&8(!A&f$! - /(4B! 1R>!
!
PJ>!H&3.B!O>!YDE"FB! \ +2$) <$'Z>!#/30.33&*(>!?&*$8;!?8&4,.8!I$3(.'$3;!R6$!e.$$'!9/30+.'3$!
+*! [C] !<$8+*I/*I>
!0+*,$'$*0$B!5&8(!A&f$! - /(4B! 1R>!!
!
PF>!H&3.B!O>B! j !5&3('4B!O>!YDE"FB!G&4Z>!#/30.33&*(>!?&*$8;!] +/0$3!,'+) !(6$!) &'I/*3!/*!
(6$!M8+<&8!5+.(6;!O!0'/(/e.$!+,!9$2$8+%) $*(!9/30+.'3$>!
!0+*,$'$*0$B!?'&I.$B! - d$06!S$%.<8/0>!!
!
PQ>!b$(6$$3V!

"F›!H&3.B!O›!YDEEQB! \ +2$) <$'Z›!
!?'3*(&(/+*!&(!/*2/($9!%&*$8!&(!(6$!
\ &(/+*&8! - +)) .*/0&(/+*!O33+0/&(/+*!0+*,$'$*0$B! - 6/0&I+B!CA›!!
!
"Q›!#.((&:H$'I) &*B!G›B! j !H&3.B!O›!YDEEKB!O%'/8Z›!
!?&%$'!%'$3$*($9!&(!(6$! - $*('&8!5(&($3! - +)) .*/0&(/+*!O33+0/&(/+*!
0+*,$'$*0$B!C*9/&*&%+8/3B!C \ ›!!
!
"K›!H&3.B!O›B! j !#.((&:H$'I) &*B!G›a›!YDEEKB!O%'/8Z›!
!
?&%$'!%'$3$*($9!&(!(6$! - $*('&8!5(&($3! - +)) .*/0&(/+*!O33+0/&(/+*!0+*,$'$*0$B!
C*9/&*&%+8/3B!C \ ›!
!
"T›!G&((3+*B!G›B! j !H&3.B!O›!YDEEKB!O%'/8Z›!
!?&%$'!
%'3*($9!&(!(6$!b$*(.0f4! - +*,$'$*0$!+*! [$&8(6! - +)) .*/0&(/+*B!A$`/*I(+*B!b o›!!
!
"N›!H&3.B!O›B! j !#.((&:H$'I) &*B!G›!YDEEKB!O%'/8Z›!
!?&%$'!
%'3*($9!&(!(6$!b$*(.0f4! - +*,$'$*0$!+*! [$&8(6! - +)) .*/0&(/+*B!A$`/*I(+*B!b o›!!
!
"P›!H&3.B!O›!YDEEKB!a.84Z›!
!?&%$'!%'$3$*($9!&(!(6$! \ - O!
#+0(+'&8! [+*+'3!5$) /*&'B!?.'9.$!1*/2$'3/(4B!C \ ›!
!
"D›!H&3.B!O›B! j !#.((&B!G›!YDEEKB! \ +2$) <$'Z›!
!?&%$'!%'$3$*($9!&(!(6$! \ &(/+*&8! - +)) .*/0&(/+*!O33+0/&(/+*!0+*,$'$*0$B!
5&*!O*(+*/+B!R r ›!!
!
"">!H&3.B!O›B! j !#.((&B!G›!YDEEKB! \ +2$) <$'Z›!
!?&%$'!%'$3$*($9!9.'/*I!306+8&':(+:
306+8&'!3$33/+*!&(!(6$! \ &(/+*&8! - +)) .*/0&(/+*!O33+0/&(/+*!0+*,$'$*0$B!5&*!O*(+*/+B!
R r ›!
!
"E›!#.((&:H$'I) &*B!G›B! j !H&3.B!O›!YDEETB! \ +2$) <$'Z›!
!?&%$'!%'$3$*($9!&(!(6$!
\ &(/+*&8! - +)) .*/0&(/+*!O33+0/&(/+*!0+*,$'$*0$B!H+3(+*B!GO›!!
!
J›!H&3.B!O›B! j !#.((&:H$'I) &*B!G›!YDEETB! \ +2$) <$'Z›!

!
Q›!H&3.B!O›!YDEETB! \ +2$) <$'Z›! !?&%$'!%'3*($9!&(!/*2/($9!%&*$8!&(!(6$!
\ &(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!0+*,$'$*0$B!H+3(+*B!GO›!!
!
K›!H&3.B!O›!YDEETB! \ +2$) <$'Z›!
!?&%$'!%'$3$*($9!&(!/*2/($9!%&*$8!&(!(6$! \ &(/+*&8!
- +)) . */0&(/+*!O33+0/&(/+*!0+*,$'$*0$B!H+3(+*B!GO›&
!
T›!H&3.B!O›B! j !# .((&:H$'I) &*B!G›!YDEETB!O%'/8Z›!
!?&%$'!%'$3$*($9!&(!(6$! - $*('&8!5(&($3!
- +)) . */0&(/+*!O33+0/&(/+*!0+*,$'$*0$B! b &*3&3! - /(4B!GU›!
!
N›!H&3.B!O›B! j !G&((3+*B!G›!YDEETB!O%'/8Z›!

!?&%$'!%'$3$*($9!&(!(6$! - $*('&8!5(&($3! - +)) . */0&(/+*!O33+0/&(/+*!
0+*,$'$*0$B! b &*3&3! - /(4B!GU›!!
!
P›!H&3.B!O›!YDEETB!O%'/8Z›! !?&%$'!
%'3*($9!&(!/*2/($9!%&*$8!&(!(6$! - $*('&8!5(&($3! - +)) . */0&(/+*!O33+0/&(/+*!0+*,$'$*0$B!
b &*3&3! - /(4B!GU›!

!

T› ^&'84!S3&'06$'!M'&*(›!1*/2$'3/(4!+,!5+.(6!78+'/9&!YDE"E:DE""Z›!?C›!Yt"EBEEEZ›!
?'+i$0(!(/(8$;!
7.*9$9!

!

K› 7&0.8(4!S3&'06!&*9!#$2$8+%)$*(!M'&*(›!-+88$I$!+,!O'(3!&*9!50/$*0$3B!
1*/2$'3/(4!+,!5+.(6!78+'/9&B!YDEEJZ›!?C›!Yt"BEEEZ›!?'+i$0(!(/(8$;!
7.*9$9!

!

Q› C*($'*&(/+*&8!R'&2$8!M'&*(!,+'!'3&'06!/*!C*9/&›!-+88I!+,!O'(3!&*9!50/$*0$3B!
1*/2$'3/(4!+,!5+.(6!78+'/9&›!YDEEJZ›!Yt"BEEEZ›!7.*9$9›!

!

!

"N

M.$3(!5%$&f$'›!ŸDE""Z›!M'&9.&($!5$) /*&'!+*! [C] gOC#5;!
!1*/2$'3/(4!+,!5+.(6!7ª+'/9&B!R&) %&B!7A›!!
!
M.$3(!5%$&f$'›!

M8+<&8!-.8(.'&8![$&8(6!-+)).*/0&(/+*!
C*($'0.8(.'&8!0+)).*/0&(/+*!
C*($'0.8(.'&8!6$&8(6!0+)).*/0&(/+*!
M8+<&8/d&(/+*!
u.&8/(&(/2$!'$3$&'06!)$(6+93!!
?+3(0+8+*/&8!(6$+'4!/*!0+)).*/0&(/+*!
5)&88!I'+.%!0+)).*/0&(/+*›!

&
&

;;‹&D/)%(1(&-$)@:-&K&L0.>1%(.-6&/B&M/)-:&H8/%.+$&

!

1*9$'I'&9.&($!

!

C*($'0.8(.'&8!-+)).*/0&(/+*!!
M8+<&8!-.8(.'&8![$&8(6!-+)).*/0&(/+*!!
C*($'0.8(.'&8![$&8(6!-+)).*/0&(/+*!L!7&0$:(+:,&0$!&*9!+*8/*$!!
[$&8(6!-+)).*/0&(/+*!!
M'+.%!-+)).*/0&(/+*!

!

M'&9.&($!

[$&8(6!-+)).*/0&(/+*!
R6$+'/$3!&*9!G$(6+93!/*!-+)).*/0&(/+*!
M8+<&8/d&(/+*!!
u.&8/(&(/2$!S$3$&'06!G$(6+93!!
-.8(.'&8!?$'3%$0(/2$3!+*![$&8(6!-+)).*/0&(/+*!!
G&'I/*&8/d&(/+*!/*![$&8(6!-+)).*/0&(/+*!!
u.&8/(&(/2$!C*($'2/$V/*I!!
?+3(0+8+*/&8!R6+.I6(3!/*!-+)).*/0&(/+*!

!

C*9$%$*9$*(!0+.'3$V+'f!L!1*9$'I'&9.&($!

!

#$3/I*/*I!-+)).*/0&(/+*!-&)%&/I*3;!R6$+'4!&*9!?'&0(/0$!Y5%'/*I!DE"EZ!
C*($'*36/%!0++'9/*&(+'!,+'!.*9$'I'&9.&($!-+)).*/0&(/+*!)&i+'!V+'f/*I!V/(6!(6$!
\$V!o+'f!G$(3!Y7&88B!DE""Z!

!

C*9$%$*9$*(!0+.'3$V+'f!L!M'&9.&($!

!

^*2/'+*)$*(&8!-+)).*/0&(/+*!Y7&88!DE"DZ!
-+)).*/0&(/+*!&*9!-+'%+'&($!?6/8&*(6'+%4!Y7&88B!DE"PZ!
G/I'&(/+*!&*9![$&8(6!-+)).*/0&(/+*!Y7&88!DE"FZ!
S&0$!/*![$&8(6!-+)).*/0&(/+*!Y5.))$'!DE"FZ!
[$&8(6!-+)).*/0&(/+*!&*9!(6$!U%/+/9!-'/3/3!Y7&88!DE"FZ!
AMHRuCv![$&8(6!-+)).*/0&(/+*!Y7&88!DEDEZ!
U'I&*/d/*I!^*2/'+*)$*(!&*9![$&8(6!Y5%'/*I!DEDDZ!
-+)).*/0&(/+*!/*!G$9/0&8!^9.0&(/+*!Y7&88!DEDDZ!

!

\ /2$(6/(6&!b$(6$$3V&'&*!L!a+/*$9!1*/2$'3/(4!+,!5+.(6!78+'/9&!&3!9+0(+'&8!3(.9$*(B!R&) %&B!78+'/9&B!/*!7&88!DE"J>!!

- b$(6$$3V&'&*B! \ >!YDE"J

S$('/$2$9!,'+) !

6((%3;gg306+8&'0+)) +*3>.3,>$9.g9+g3$&'06gpewf$(6$$3V&'&* j 3(&'(wE j 0+*($`(w"F"NPQT j ,&0$(w!

A/&6**&!5(&*8$4!L!a+/*$9!9+0(+'&8!%'+I'&) !&(!O'/d+*&!5(&($!1*/2$'3/(4B!R$) %$B!O'/d+*&B!/*!7&88!DE"J>!

- 5(&*8$4B!A>!YDE"JZ!

>!S$('/$2$9!,'+) !

6((%3;gg306+8&'0+)) +*3>.3,>$9.g9+g3$&'06gpew8/&6**& j 3(&'(wE j 0+*($`(w"F"NPQT j ,&0$(w!

H'/&**&!-.3&**+!L!a+/*$9!1*/2$'3/(4!+,!5+.(6!78+'/9&!&3!9+0(+'&8!3(.9$*(B!R&) %&B!78+'/9&B!/*!7&88!DE"J>!!

- -.3&**+B!H>!S>!YDE"JZ!

>!S$('/$2$9!,'+) !

6((%3;gg306+8&'0+)) +*3>.3,>$9.g9+g3$&'06gpew0.3&**+ j 3(&'(wE j 0+*($`(w"F"NPQT j ,&0$(w!

^'/*![+V$88!L!a+/*$9!1*/2$'3/(4!+,!5+.(6!78+'/9&!&3!9+0(+'&8!3(.9$*(B!R&) %&B!7&88!DEDE>!!

- [+V$88B!^>!YDE"QZ>!

#&dd$84*!1&%&(&!L!M'&9.&($9B!DE"T>!#$%&'()$*(!+,!-+)).*/0&(/+*3!&*9!\$V!G$9/&>!\&(/+*&8!1*/2$'3/(4!+,!5/*I&%+'$>!

!

-D>!G&3($'3!-+))/(($$!G$)<$'!

\&+)/!R&*!L!M'&9.&($9B!DE"K>!#$%&'()$*(!+,!-+)).*/0&(/+*3!&*9!\$V!G$9/&>!

\&(/+*&8!1*/2$'3/(4!+,!5/*I&%+'$>!

!

!

&

M1%>.,1R ! + " .0.(-%$-./0&

!

;<&P12$%-" 10-&&

!

-6&/'%$'3+*!YDED"!:!0.''$*(Z>!#.(/$3!/*08.9$!%'+2/9/*I!&0&9$)/0!8$&9$'36/%!&*9!2/3/+*!

,+'!(6$!9$%&'()$*(!(+!$*6&*0$!/(3!e.&8/(4!&*9!'$%.(&(/+*x!'$0'./()$*(!&*9!'$($*(/+*!+,!

3(&,,B!3(.9$*(3B!&*9!,&0.8(4x!)&*&I/*I!9/,,/0.8(!0+*2$'3&(/+*3!&*9!%$'3+**$8!'$8&(/+*3x!

)$*(+'/*I!3(&,,B!3(.9$*(3B!&*9!,&0.8(4x!+2$'3$$/*I!,/*&*0/&8!&,,&/'3!&*9!'$3+.'0$!

&88+0&(/+*3x!3.%$'2/3/+*!+,!0!8&33!306$9.8$3x!0+*9.0(/*I!&**.&8!%$',+')&*0$!$2&8.&(/+*3!+,!

3(&,,B!3(.9$*(B!&*9!,&0.8(4x!0+*9.0(/*I!&8.)*/!&*9!9+*+'!+.('$&06x!0+*9.0(/*I!9$%&'()$*(!

<.3/*$33x!$*3.'/*I!0+)%8/&*0$!V/(6!.*/2$'3/(4!&*9!3(&($!)&*9&($3x!3.%$'2/3/*I!&*9!

)&/*(&/*/*I!3%&0$!&*9!$e./%)$*(x!0+*9.0(/*I!($*.'$!&*9!%'+)+(/+*:'$8&($9!'$2/$V3x!

9$2$8+%/*I!/*($'9/30/%8/*&'4!/*/(/&(/2$3!+'!0+88&<+'&(/+*3x!8$&9/*I!9$%&'()$*(!%'+I'&)!

$2&8.&(/+*x!8$&9/*I!&**.&8!,&0.8(4!'$('$&(3x!8$&9/*I!9$%&'()$*(!/*/(/&(/2$3!&(!*&(/+*&8!&*9!

/*($'*&(/+*&8!0+*,$'$*0$3x!)&*&I/*I!/*($'*&8!&*9!$`($'*&8!0+))./0&(/+*>!

!

M'&9.&($!?'+I'&)!#/'$0(+'!YDE"N:DEDEZ>!#.(/$3!/*08.9$!3.%$'2/3/+*!+,!&88!I'&9.&($!

3(.9$*(3B!8$&9/*I!I'&9.&($!'$0'./()$*(!&*9!)/33/+*3B!,&0/8/(&(/*I!I'&9.&($!306++8!%+8/04!

/)%8$)$*(&(/+*B!0+*9.0(/*I!&**.&8!$2&8.&(/+*!+,!I'&9.&($!3(.9$*(3B!&33/I*/*I!,&0.8(4!

)$*(+'3!(+!I'&9.&($!3(.9$*(3B!I'&9.&($!0+.'3$!306$9.8/*IB!0+*9.0(/*I!'3&'06!&*9!

%'+,$33/+*&8!)$$(/*I3!,+'!I'&9.&($!3(.9$*(3B!8$&9/*I!9$%&'()$*(!I'&9.&($!0+)$*(!)/((($$!&*9!

&9!6+0!I'&9.&($!0+)$*(!)/(($$3>!!

!

G$)<$'B!^`$0.(/2$!-+))/(($$!YDEEJ:DE"EB!DE"D:DE"PB!DE"N:DE"TB!DE"T:DE"KB!DE"K:

DE"QB!DE"Q!L!DE"FB!DE"JB!DEDEZ>!#.(/$3!/*08.9$!&0(/*I!&3!&92/3+'4!(+!9$%&'()$*(!

06&/'%$'3+*!+*!&88!)&((($'3+,!9$%&'()$*(!,..*0(/+*/*I>!!

!

-6&/'B!5$&'06!-+))/(($$B!]/3/(/*I!C*3('.0(+'!YDE"P0.1201 2000(8).!!'$3$$ +*3

G$) <$'B!5$&'06! - +)) /(($$B!O33/3(&*(!?'+,$33+'!%+3/(/+*!/*!A&(/*`!#/I/(&8!G$9/&!YDE"J:
DEDEZ>!
!
G$) <$'B!5$&'06! - +)) /(($$B!O33/3(&*(!?'+,$33+'!%+3/(/+*!/*!C**+2&($!5+0/&8!50/$*0$!
G$(6+93!YDE"Q:DE"FZ>!
!
G$) <$'B!5$&'06! - +)) /(($$B!#$%&'( ) $*(! - 6&/'%$'3+*!YDE"K:DE"QZ>!
!
G$) <$'B!5$&'06! - +)) /(($$B!#$%&'( ) $*(!M'&9.&($!O9) /*/3('&(/2$!5%$0/&8/3(!YDE"QZ>!
!
G$) <$'B!M'&9.&($! - +)) /(($$!YDEEF:DEEJx!DEEJ:DE"Ex!DE"E:DE""B!DE"P:DE"NZ>!
!
@$<3/($!3.%$'2/3+'!YDE"T:DE"KB!DE"K:DE"QZ>!!
!
G$) <$'B!5$&'06! - +)) /(($$B!O33/3(&*(!?'+,$33+'!%+3/(/+*!/*! [$&8(6! - +)) .*/0&(/+*!Y7&88!
DE"P!L!5%'/*I!DE"NZ>!
!
G$) <$'B!O9!6+0! - +)) /(($$!(+!'$2/$V!7&0.8(4!5$&'06!%'+0$33!YDE"N:DE"TZ>!
!
- 6&/'B!5$&'06! - +)) /(($$B!O33/3(&*(gO33+0/&($!?'+,$33+'!%+3/(/+*!/*!
C*($'%$'3+*&8gS$8&(/+*&8! - +)) .*/0&(/+*!Y7&88!DE"D!L!5%'/*I!DE"PZ>!
!
- +.'3$!3.%$'2/3+'!L! [$&8(6! - +)) .*/0&(/+*!Y7&88!DE""!:!%'3*(Z>!
!
- +:$9/(+'>!O**.&8!*$V38$(($'!YDE""B!DE"DZ>!
!
G$) <$'B!R$*.'$! j !?'+) +(/+*! - +)) /(($$!YDE""Z>!
!
G$) <$'B!5$&'06! - +)) /(($$B!C*3('.0(+'!%+3/(/+*!/*!?$',+') &*0$!5(.9/$3!Y5%'/*I!DE""Z>!
!
G$) <$'B!5$&'06! - +)) /(($$B!%+3(

&

;;<&L0.>1%(.-6&

!

G$) <$'›! - +88I!+,!O'(3! j !50/$*0$3!#$&*_3!O9:6+0! - +)) /(($$;!A$0(. '$!5$'/$3!+*! - /2/8! #/30+ . '3$B!DEDD!:!!!

!

?&*$8/3(›! 1 57!M'&9 . &($!506++8!3$) /*&'!+*!7&0 . 8(4!a+<!5$&'06!5$'/$3;!7&0 . 8(4!C*3/I6(3!+*! (6$!O0&9$) /0!a+<!G&' f$(B!DEDD›!

!

G$) <$'B! 1 */2$'3/(4!#/30/%8/*$! - +)) /(($$!YR&3 f$9!V/(6!$2&8 . &(/*I!#/3(/*I . /36$9! 1 */2$'3/(4!?'+,$33+'!*+) /*&(/+*ZB!DED"›!!

!

G$) <$'B!506++8!+,! [.) &*/(/$3!M'&9 . &($! - +)) /(($$B!DE"K:DE"QB!DE"Q!L!DE"FB!DE"F!L! DE"JB!DE"J:DEDE›!

!

G$) <$'B! - +88I!+,!O'(3!&*9!50/$*0$3!M'&9 . &($! - +)) /(($$B!DE"Q!L!DE"FB!DE"F!L!DE"JB! DE"J:DEDE›!

!

- +88I!+,!O'(3!&*9!50/$*0$3! \ $V!S$3$&'06$'3!M'&*(!'$2/$V$'B!DE"Q›!!!

!

?6#!#/33$'(&(/+*!#$,$*3$!06&/'%$'3+*B!#$%&'( ) $*(!+,!O*(6'+%+8+I4B!DE"K›!

!

G$) <$'B!0+*,$'$*0$!%8&**/*I!0+)) /(($$B!&*9! - 6&/'%$'3+*B!0+*,$'$*0$!%&%$'!'$2/$V! 0+)) /(($$B!n - +) /*I!6+) $!(+!5+0/&8!a . 3(/0$;! [+V! - +)) . */(4!?&'(/0/%&(/+*!&*9! - '+33: 5$0(+'! - +88&<+'&(/+*!0&*!6&2$!&! - +88$0(/2$!C) %&0(!+*! [$&8(6!^e . /(4Bk!DE"K›!!!!

!

7&0 . 8(4!G$*(+'B! - +88$I$!+,!O'(3! j !50/$*0$3B!DE"P:DE"N›!

!

S$3%+*9$*(B! [.) &*/(/$3!C*3(/(.($!54) %+3/.) B!DE""›!

!

G$) <$'B! - +88I!+,!O'(3!&*9!50/$*0$3!#$&*_3!#/2$'3/(4! - +)) /(($$!L!DEEJ:DE"EB!DE"E: DE""›!

!

O,,/8/&($!,&0 . 8(4B!C*9/&!5(. 9/$3! - $*($'B!&!?'+2+3(:/*/(/&($9!$,,+'(!(+!0+88&<+'&($!V/(6!C*9/&*! $9 . 0&(/+*&8!/*3(/(. (/+*3!L!DE"E:DE"P›!!

!

O,,/8/&($!,&0 . 8(4;!506++8!+,!M8+<&8!5 . 3(&/*&</8/(4!L!DE"E!L!DE"Q›!!

!

&

;;;<&7%/B1((./0$8&

!

! <&*+.-/%(:.2&S&1+.-/%.$8&#/$%+&" 1 " #1%(:.2&

!

5$*/+'!^9/(+'B! B!YDE"N!:!DEDEZ›!!

O3!+*$!+,!(6$!5$*/+'!^9/(+'3!+,!(6$!i+ . '*&8B!C!3$'2$!&3!(6$!&0(/+*!$9/(+'!,+'!NE:TE!

) &* . 30'/%(3!&!4$&'›!C!3+8/0/(!'$2/V'3B!V'/($!9$0/3/+*!8$(($'3B!(&f$!,/*&8!9$0/3/+*3!+*!

(6$!3(&(.3!+,!) &*.30'/%(3B!&*9!I./9$!&00$%($9!) &*.30'/%(3!(+!(6$!,/*&8!3(&I$3!+,!
%.<8/0&(/+*›!!

!

-+:$9/(+'!+,!<++f!3$'/$3B!n-'/(/0&8!-.8(.'&8!5(.9/$3!/*!M8+<&8![$&8(6!-+)).*/0&(/+*Bk!
S+.(8$9I$!ŸŸ$&'8/$'!A$,(!-+&3(!?'$33Z›!ŸDE""!

- [5!
- +)) . */0&(/+*! o $&'<++f!!
- +)) . */0&(/+*!R6$+'4!!
- +)) . */0&(/+*!G+*+I'&%63!!
[.) &*! - +)) . */0&(/+*!S3&'06!!
a+ . '*&8!+,!O%%8/$9! - +)) . */0&(/+*!S$3$&'06!
a+ . '*&8!+,!7&) /84! - +)) . */0&(/+*!
a+ . '*&8!+,!? . <8/0!S$8&(/+*!S$3$&'06!!
u . &8/(&(/2$! [$&8(6!S3&'06!!
C*($'*&(/+*&8!a+ . '*&8!+,! - +)) . */0&(/+*!
[$&8(6!?'+) +(/+*!&*9!?'&0(/0$!!
R6$!5+0/&8!50/$*0$!a+ . '*&8!
a+ . '*&8!+,!C)) /I'&*(!&*9!G/*+'/(4! [$&8(6!
- +)) . */0&(/+*!&*9! - '/(/0&8g - . 8(. '&8!5(. 9/$3!
a+ . '*&8!+,!5+0/&8!&*9!?$'3+*&8!S$8&(/+*36/%3!
!

?&%$'g%&*$8!'$2/$V$'!!

- ! [$&8(6! - +)) . */0&(/+*! - +*,$'$*0$!
C*($'*&(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!!
\ &(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!!
5+ . (6$'*!5(&($3! - +)) . */0&(/+*!O33+0/&(/+*!

!

D<&*C-1%0$8&%1>.14&4/%T&

&

?'+) +(/+*!0&3$!'$2/V'›! 1 */2$'3/(4!+,!R$`&3!&(!O'8/*I(+*›!YDEDDZ!

R$* . '$!&*9!?'+) +(/+*!0&3$!'$2/V'›!O'/d+*&!5(&($! 1 */2$'3/(4›!YDED"Z!

R$* . '$!&*9!?'+) +(/+*!0&3$!'$2/V'›! - +8+'&9+!5(&($! 1 */2$'3/(4B!7+'(! - +88/*3›!YDED"Z!

?'+) +(/+*!0&3$!'$2/V'›!? . '9 . $! 1 */2$'3/(4! \ +'(6V$3(›!YDED"Z!

R$* . '$!&*9!?'+) +(/+*!0&3$!'$2/V'›! 1 */2$'3/(4!+,!R$`&3B!5&*!O*(+*/+›!YDE"JZ!

^`($'*&8!?6#!R6$3/Q000 . 12(6!41TcmBT100q0 . 12 -) 0 . 2(+*!0) 0 . 2(&) 0 . 2(3) - 0 . 2($) q0cB120696 . 96cmBT10

O9!6+0!OV&'93!'$2/$V!0+)) /(($$!0+*2$*+'›! [$&8(6! - +)) . */0&(/+*!9/2/3/+*›! \ &(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!YDEDPZ!

!

S$2/$V$'!L! \ - OgC - O! [$&8(6! - +)) . */0&(/+*!#/33$'(&(/+*!OV&'9›!YDEDPB!DEDDZ!

!

- 6&/'›! [$&8(6! - +)) . */0&(/+*!9/2/3/+*›! \ &(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!YDED": DEDDZ!

!

] /0$:06&/'›! [$&8(6! - +)) . */0&(/+*!9/2/3/+*›! \ &(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*! YDEDE:DED"Z!

!

- +*,$'$*0$!?'+I'&) !?8&**$'›! [$&8(6! - +)) . */0&(/+*!9/2/3/+*›! \ &(/+*&8! - +)) . */0&(/+*! O33+0/&(/+*!YDEDE:DED"Z!

!

] /0$:06&/'!$8$0(›! [$&8(6! - +)) . */0&(/+*!9/2/3/+*›! \ &(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*! YDE"J:DEDEZ!

!

S$2/$V$'!L! \ - O!O?O - !U . (3(&*9/*I!O'(/08$!OV&'9›!YDEDDZ!!!

!

G$) <$'›! \ &(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!A$I/38&(/2$!O33$) <84›!YDE"J!L!DEDEZ!!

!

- 6&/'%$'3+*›! \ &(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!G/88$'!#/33$'(&(/+*!OV&'93! - +)) /(($$!YDE"J:DEDEZ!

!

C*($'*&(/+*&8!A/&/3+*›!M8+<&8! - +)) . */0&(/+*!,+'!5+0/&8! - 6&*I$!9/2/3/+*›!C*($'*&(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!YDEDE!L!DEDDZ!

!

G$) <$'B!&9!6+0!OV&'93! - +)) /(($$B!C*($'*&(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!M8+<&8! - +)) . */0&(/+*!,+'!5+0/&8! - 6&*I$!9/2/3/+*!YDE"FZ!

!

G$) <$'B! \ &(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!#+0(+'&8!^9 . 0&(/+*! - +)) /(($$!YDE"K!L! DEDEZ!

!

G$) <$'B! \ &(/+*&8! - +)) . */0&(/+*!O33+0/&(/+*!#+0(+'&8!#/33$'(&(/+*!OV&'9! - +)) /(($$! YDE"FZ!

!

!

; I <&D / " ") 0 .-6&* 0@$@1 " 10-&

?&*$8!3%$&f$';!nO'$!V$!0+**$0($9B!4$(!/3+8&($9p! [+V!3+0/&8!) $9/&B!+*8/*$!I&) /*I!&*9! (6$!/*($'*$(!&'$!06&*I/*I!+ . '!'$8&(/+*36/%3B!,&) /8/$3!&*9!3+0/$(4›k!YDE"JZ›!?&*$8!+'I&*/d$9! <4!?$606&&*!R&) %&!H&4!C*0›!!

!

G+9$'&(+'B!(+V*!6&88!%&*$8!9/30 . 33/+*!+*!('&*3I$*9$'!'/I6(3B!n - +*3(' . 0(/*IB! 9$0+*3(' . 0(/*IB!&*9!'$0+*3(' . 0(/*I!(6$!('&*3!) +2$) $*(k!YDE"KZ›!?&*$8!+'I&*/d$9!<4!(6$! U,,/0$!+,!#/2$'3/(4B!C*08 . 3/+*B!&*9!^e . &8!U%%+'(. */(4›! 1 */2$'3/(4!+,!5+ . (6!78+'/9&›&&

0

&

!

DQ