

!''''#\$\$%&'()*\$!#'+,-.,-/(

!

\$0'('\$1232\$3(432%Ȏ*(

!

)\$!#'\$7(%2526\$#5(
689:;<=>?('@A@BC@:(D?(-/EF(

(
1(2(3(4(6(&5!

!

"#\$! %&'(! &*! +,-.,&(-! &*! /0)! 1&2,3,&3! 43,5\$(-,6! 2\$.!,3! (\$780'(! -\$--,&3! &3! "#8(-)'69!
:\$;.\$2<\$(!=>9!'!>?@!'A2A!,3!.\$!B'.\$!'3)!C!DA!%(&)\$,(EF! 1,3,37!G&2 2 &3-!&3!.\$!

G! 00(6\$(\$ #' &#!(! 3 '(4 32%Ȏ*(! 4 '26(' &'! # 6 1 &3 6() #2&723H!

!

D\$E.&(!: 2 ,.#E'00\$)!.#\$! 2 \$\$.,37!.&!&()\$(! !>?WX! 'A 2A! '3)! ,3.(&)8E\$)!M 2 '3)'! : F'77-9!43,5\$(-.,6! M8),!YZ\$E8.,5\$A!R -A! : F'77-!.#'3F\$)!.#\$!D\$E.&(!*!(,35,,37!#\$(!&!-; \$'F!&!.#\$\$%&'()!'<&8!.#\$! (&\$!&#!.#\$! 43,5\$(-.,6!M8),! 1 \$; '(.2 \$3.A! :#\$! - ',)!.#'!.#\$\$!)\$; '(.2 \$3.! ;(&5,) \$-!&<[E.,5\$! '3)! ,3)\$; \$3)\$3.! ' --\$-- 2 \$3.-! '3)! ')5,E\$!*&(!, 2 ;(&5,37!& ;\$('.,&3-!.#'!.! J,00! ')5'3E\$!.#\$!7&'0-! '3)! &<[E.,5\$-!&#!.#\$! 43,5\$(-.,6! J ,.#! '!*&E8-!&3!(,-F! 2 '3'7\$ 2 \$3.9!,3.\$(3'0!E&3.(&0-! '3)!7&5\$(3'3E\$A! M.!#\$!-' 2 \$!., 2 \$9!.#\$!'8),.&(-!'(\$!'! ; '(!&#!.#\$! 43,5\$(-.,6!E& 2 2 83.,6! '3)!\$37'7\$9! ; '(.3\$(! '3)! E&00'<&('.\$! J ,.#! &.#\$(-! 'E(&--! E' 2 ;8-!.&! (\$E& 2 2 \$3)! *\$'-,<0\$! -&08.,&3-!.&! '(,-,37! <8-,3\$--! E# '00\$37\$-A!P3.\$(3'0! '8),! 'E.,5.,6!<\$7'3!'! / 1 4!,3!.#\$! 2,)\>]@-! '3)!.#\$!)\$; '(.2 \$3.!#'-!*,5\$! '8),.&(-A!

!

R-A! : F'77-!3&.\$)!.#'!'8),.&(-!# '5\$!'!5'(\$.,6!&#!-F,00-9!\$)8E'.,&3'0!<'EF7(&83)-! '3)!\$Z; \$(,-,\$! '3)!E&3.,38,37!\$)8E'.,&3!, -!F\$6!.&!\$3# '3E,37!F3& J 0\$)7\$9!-F,00-! '3)!E& 2 ;\$.3E,\$-A!G\$(*,E'.,&3-! '\$!# ,7#06!\$3E&8('7\$)9! '3)!&#!.#\$!.\$3!E\$(*,E'.,&3-!#0)!<6!#\$(!.\$' 2 9!\$,7#.! J \$(! 'E#,\$5\$)! J #,0\$! J &(F,37!*&(!.#\$!)\$; '(.2 \$3.A! U #,0\$! '8),.&(-!*&E8-!&3!,3.\$(3'0!E&3.(&0-9!,!,-! 2 '3'7\$ 2 \$3.! J #&!, -! (\$-; &3-,<0\$!*&(!.#\$-\$!E&3.(&0-A!M3!,3.\$(3'0! '8),!E'3!,3)\$; \$3)\$3.06! '--\$--!.#\$!\$**\$E.,5\$3\$--!&#! ,3.\$(3'0!E&3.(&0-! '3)! 2 'F\$!(\$E& 2 2 \$3)'.,&3-!.&! 2 '3'7\$ 2 \$3.! J #&! ; (& ;&-\$!E&((\$E.,5\$! 'E.,&3! '#'.! ,-.('EF\$)!.#(&87#!E& 2 ;0\$.,&3A!!

!

R-A! : F'77-!(\$5,\$ J \$)!.#\$!'8),! ;0'33,37! ; (&E\$--! '3)!.#\$!'8),! ; (&E\$--!,--\$0!'3)!-# '\$)!.#\$!0,-!&#! E8((\$3!.'8),!.\$37'7\$ 2 \$3.-A! "#\$! 43,5\$(-.,6! M8),! 1 \$; '(.2 \$3.! ,-'0-&! E#('7\$)! J ,.#!.#\$! (\$-; &3-,<,0.,6!.&! ,35\$--,'7'\$.!,3.\$(3'0!E& 2 ;0',3.-!&3!*('8)9! J '-,\$! '3)! '<8-\$! '3)! / 1 4!E& 2 ;0',3.-! (\$E\$,5\$)!*(& 2 !.#\$!G& 2 2 & 3 J \$'0.#^!N('8)9! U '-,\$! '3)!M<8-\$!Q&0,3\$A! :#\$!3&.\$)!.#'!.#\$.!& ;E-! 2 &-!(\$E\$3.06!E&5\$(\$)! ,3E08)\$!3\$; &.,- 2 9!&8.-,)\$!\$ 2 ;0&6 2 \$3.9!\$ZES--,\$5\$! ; '69!* ,3'3E, '0! ,)!*('8)9! '3)!0\$'5\$! '<8-\$9! J ,.#!0\$'5\$! '<8-\$!<\$,37!.#\$! 2 &-!E& 2 2 &3A!

!

R-A! : F'77-! \$Z;0',3\$)!.#\$!) ,**\$(\$3E\$! <\$.J \$3\$! ,3.\$(3'0! '3)! \$Z.\$(3'0! '8),.&(-9!.#\$! (\$;&(-,37! (\$0'.,&3-# , ;! <\$.J \$3\$! .#\$!)\$; '(.2 \$3.9! .#\$! %&'()9! .#\$! I(\$-,)\$3.! '3)! .#\$! / **,\$E\$! &#!.#\$! :.'!#\$! P3-; \$E.&!O\$3\$('09! '3)!.#\$!_8'0.,6! '--8('3E\$! '3)! , 2 ; (&5\$ 2 \$3.! ; (&7(' 2 !.#'!.!,3E08)\$-! '338'0!-\$0\$ \ '8),.-! '3)!.#\$!'3!\$Z.\$(3'0! `8'0.,6!M--8('3E\$!D\$5,\$ J !5\$5(6* ,5\$!6\$'(-A!

!

"#\$!%&'()!(\$E\$--\$)!'.!=@?@X! 'A 2A!*&(! 2 \$\$.,37-!&#!.#\$!-'3),37!E& 2 2 ,...\$\$-A!

!

(

#&G\$ 3%&3&(! 3 '(G0 \$5&' (5&552\$ 3(

(

"#\$!D\$E.&(!(\$E&35\$3\$)!.#\$! 2 \$\$.,37!'! !=?W@! ;A 2A! '3)!-' ,)!.#'!.#\$\$!&()\$(!&#!<8-,3\$--! J '-!<\$,37! 2 &)*,\$)!&! 'EE& 2 2 &)'!.\$!R -A!C&3\$-'3)!R -A!B\$ 2 ; (\$9! J #&!3\$)!.&!0\$'5\$!-#&(.06!*&(!.#\$!' , ; (&A!!

!

"#\$!D\$E.&(!(\$E&73,\$\$)!R -A!B, (F9! J #&! 2 ')\$!.#\$!*&00& J ,37! 2 &.,&39!aR ')' 2!D\$E.&(9!P! 2 &5\$! '#'.! ,.#, -! 2 \$\$.,37!<\$!E&35\$3\$)! ,3!E0&-\$)!-\$-,&39! '-! ; \$(2 ,...\$)!<6! +, (7,3, '!G&)\$! : \$E.,&3!VAV\b] ==cMd! c=d9! *&(!.#\$! ; 8(;&-\$!&#! ,)-E8--,&39! E&3-,)\$('.,&39! &(! ,3.\$(5,\$ J -!&#! ; (&-; \$E.,5\$!E'3),)'!.\$-! *&(! \$ 2 ; 0&6 2 \$3.! ,3!.#\$!*&&<'00! ; (&7(' 2 Ae!"#\$! 2 &.,&3! J '-!)806!-\$E&3\$)! '3)!83'3, 2 &8-06!' ; ; (&5\$)! <6! '00! 2 \$ 2 <\$(-! ; (\$-\$3.! '3)! 5&.,37!

(

(

!

#&G\$ 3%&3&(23(\$ ''&3(5&552\$ 3(! 3 '(7\$2!(GᢀG! 62\$ 3(

!

M.! #E&3E08-,&3!&*! #E0&-)\$!-\$--,&39! #2\$\$.37! J'-\$!(E&35\$3\$)! ,3!&; \$3!-\$--,&39! ' ! J #,E#!
., 2\$! #D\$E.&(E'00\$)!*&(! #N(\$\$)&2!&*!P3*&(2' .,&3!ME!E\$(., *E' .,&3!&*!E&2 ;0, '3E\$! #'.!c=d!
&306! ;8<0,E!<8-,3\$--! 2' ..\$(-!0' J *8006!\$Z\$ 2 ;. \$)!*(&2! #&!&; \$3! 2\$\$.37!(\$_8,(\$2\$3.-!83)\$(! #N(\$\$)&2!&*!P3*&(2' .,&3!ME! J\$(\$) , -E8--\$)! '3)!cVd!&306! -8E#! ;8<0,E!<8-,3\$--! 2' ..\$(-! ' -! J\$(\$)
,) \$3., *,\$)! ,3! #2 &.,&3!<6! J #,E#! #E0&-)\$!-\$--,&3! J' -!E&35\$3\$)! J\$(\$)!#\$()! , -E8--\$)!&(!
E&3-,)\$(\$)!A! " #E\$(., *E' .,&3!&*!E&2 ;0, '3E\$!5&.\$! J' -! =V! ,3! *' 5&(! '3)!3&3\$!&; ; &-)\$!

56! 3 '23H(G\$ 1 1266&&(#&' \$ #65(

(

(

!

!G! ' & 12G(! 3 '(#&5&! #GI(! ' %! 3G& 1 &36(G\$ 1 1266&&(

" #D\$E.&(E'00!&3! R -A!C&3\$-!*&(! #N(\$\$)&2!&*!P3*&(2' .,&3!ME!E\$(., *E' .,&3!&*!E&2 ;0, '3E\$! #'.!c=d!
G&2 2 ,..\$ \$! R -A!C&3\$-!(\$;&(\$)! #'.! #G&2 2 ,..\$ \$! 2\$!. ,3!E0&-)\$!-\$--,&3! .&!) , -E8--! '
(\$E&2 2\$3) ' .,&3!&*!&(! . \$38(\$!*&(! '!' *E80.6! 2\$2 <\$(A!N&00& J ,37!E0&-)\$!-\$--,&39!E&2 2 ,..\$ \$!
2\$2 <\$(-! ' ' ; ;(&5\$)!<6! 83'3, 2&8-!5&.\$! #J' '\$)!*&!. \$38(\$! .&! '!' *E80.6! 2\$2 <\$(A! "#\$!
&*00& J ,37! (\$-&08.,&3! J' -! <(&87#! *(&#! ' -! '!' (\$E&2 2\$3) ' .,&3! &*! #ME')\$2 ,E! '3)!
D\$-\$'(E#! M)5'3E\$2\$3.! G&2 2 ,..\$ \$! '3)! J' -! 83'3, 2&8-06! ' ; ;(&5\$)!<6! '00! 2\$2 <\$(-!
;(\$-\$3.! '3)!5&.,37!

12' J* &! # (6&34#&(#&G\$ 1 1 &3 ' ! 62\$ 3(

!

DY: / K+Y 19! #.!'!8 ;&3! #N(\$\$)&2!&*!P3*&(2' .,&3!ME!E\$(., *E' .,&3!&*!E&2 ;0, '3E\$! #'.!c=d!
M)5'3E\$2\$3.! G&2 2 ,..\$ \$! (\$E&2 2\$3) -! #'.! #N(\$\$)&2!&*!P3*&(2' .,&3!ME!E\$(., *E' .,&3!&*!E&2 ;0, '3E\$! #'.!c=d!
'3)! ; (&2 &.,&3! .&! ' -&E, '\$! ; (&* \$--&(! *(&#! #N(\$\$)&2!&*!P3*&(2' .,&3!ME!E\$(., *E' .,&3!&*!E&2 ;0, '3E\$! #'.!c=d!
43,5\$(-, .6A! " #N(\$\$)&2!&*!P3*&(2' .,&3!ME!E\$(., *E' .,&3!&*!E&2 ;0, '3E\$! #'.!c=d!
; (&2 &.,&3! J ,00!<\$!\$**\$E.,5\$! J ,.#! #N(\$\$)&2!&*!P3*&(2' .,&3!ME!E\$(., *E' .,&3!&*!E&2 ;0, '3E\$! #'.!c=d!
; (,37!V@V@!-\$2\$-\$ (A!

G&00\$7\$!&*! : E,\$3E\$-!

!

1'3,\$0!Ca!% '(-#,-!

1\$; '(.2\$3.!&*!%,&0&7,E'0! : E,\$3E\$-!!

!

!

' #k(' ! 32&0(Lk() ! #5 I25(

!

I(&*\$\$-&(!,-!<'-\$)!&3!a\$-.'<0,-#\$)!#,7#!_8'0,.6!&*!;\$(*&(2'3E\$,3!.\$'E#,379!(\$-\$'(E#9!'3)!-\$(\$5,E\$!'3)!;(\$\2,3\$3E\$,3!'!0\$'-!&3\$!&*!.#\$-\$!'(\$'-Ae!f;A!bbgA!

!

1(A!1'3,\$0!%'(-#,-!(\$E\$,5\$)!!'%A:A!J,.,#!-;\$E,'0,S',.,&3!,3!YE&0&76hY35,(&32\$3.'0!:E,\$3E\$!*(&2!"#\$!Y5\$(7(\$3! :.'.\$!G&00\$7\$!,3! /062 ;,'9!U'-#,37.&39!'3)! '3! RA:EA!'3)! I#A1A! J,.,#!-;\$E,'0,S',.,&3!,3!YE&0&769!Y5&08.,&3!'3)!G&3-\$(\$5',&3!%,&0&76!*(&2!43,5\$(-,.6!&*!Q'J',^,! '!.! Ri3&'9!Q'J',^,A!!I(&(!.&![&,3,37! /0)!1&2,3,&3!43,5\$(-,.6!,3!1\$E\$2<\$(!V@=b9!#\$!J'-!M--,-.'3.! I(&[\$E.! :E,\$3.,-.9!H',.,&3'0!R'(',3\$!N,-#\$(\$,-! :\$(5,E\$9!43,5\$(-,.6! &*!G'0,*&(3,'9! : '3.'!G(8Sj! I&-.)&E.&('0!:E#&0'(!'!.#Q&F,3-!R'(',3\$! :.'.,&3!&*! :.'3*&(!)43,5\$(-,.6j!D\$-\$'(E#M--,-.'3.'!.# \$!43,.\$)! :.'.\$-!O\$&0&7,E'0! :8(5\$6!'3)! '!.!43,5\$(-,.6! &*!Q'J',^,! '!.! Ri3&'j!D\$-\$'(E#" \$E#3,E,'3!'!.#G&00\$7\$!&*!.#R'(-#'00!P-0'3)-9!R'[8(&j!'3)!M7(,E80.8('0!D\$-\$'(E#" \$E#3,E,'3!'!.!U'-#,37.&3! :.'.\$!1\$; '(.'2\$3.!&*!M7(,E80.8(\$A!

!

!

!
!

7!G406*(!""\$2361&365(

DY: /K+Y19! .#!.! 8;&3! .#\$! (\$E&2 2\$3)'.,&3! &*! .#\$! ME')\$2,E! '3)! D\$-\$'(E#!
M)5'3E\$2\$3.!G&2 2,..\$\$9!.\$#!%&'(!&*!+,-.&(-!' ; ;(&5\$-!.\$#!*&00&J,37!*'E80.6!' ; ;&,3.2\$3.-A!

!

<u>H' 2\$!'3)!D'3F!</u>	<u>:'0'(6!</u>	<u>Y**\$E.,5\$!</u>	<u>!!1'\$.S!!!</u>	<u>"\$(2!</u>
1(A!Q&--\$,3!N'\$.#!	Im@9@@@			

!

! ' 123256# ! 62%&(7!G406*(!' "\$2361&365(

!

DY: /K+Y1! .#! ! 8;&3! .#! (\$E&2 2\$3)'.,&3! &*! .#! ME')\$2,E! '3)! D\$-\$'(E#!
M)5'3E\$2\$3.!G&2 2,..\$\$! .#!%&'(!&*! +,-.&(-!' ; ;(&5\$-! .#!*&00&J ,37!') 2,3,-.('.,5\$!*'E80.6!
' ;;&,3.2\$3.-A!

!

! !

H' 2\$!'3)!D'3F!

!!!!!!!!!!!!!!!!!!!!!!!!!!!!Y**\$E.,5\$!

: '0'(6!!!!!!!!!!!!!!!!!!!! 1 '\$!!!!!!!!!!!!!"\$(2

!

! !

!!!!!!!!!!!!!!!!!!!!!!!!!!!!Y**\$E.,5\$

!

p!

*2: 7!26; !\$26! ! ! ! ! ! ! " =790<?7!. 207!

!

=!

!

-E#&&0!),5,-,&3*(&2! =>pp\V@@@ '3)! J&(F\$)! J ,.#! +,(7,3,'!%'E#! I8<0,E! :E#&&0-! '-!'O,*. \$)! Y)8E'.&(!*(&2! V@@@\@m! :#\$! [&,3\$)! .#\$! "\$'E#,37! '3)! K\$'(3,37! 1\$; '(.2\$3.! ,3! .#\$! 1'())\$3! G&00\$7\$! &#! Y)8E'.,&3! '3)! I(&*\$--,&3'0! :.8),\$-!,3! V@@@m! '-!'! IB\m! R'.#2'.,E-'3)! :E,\$3E\$! R\$.#&)-!K\$E.8(\$@!I&3)! J'-!;(&2&.\$)!.&!<&.#!'!:\$3,&('3)!R'-.\$(!K\$E.8(\$!)8,(37!#\$(!.38(\$!'! / 14!'3)!\$37'7\$)! ,3!280.,\),-E,;0,3'(6!(\$-\$'(E#!,3,..,5\$-!J,.,#3!.\$!E&2 283,.6A! :&2\$!&#!.#\$-\$! (\$-\$'(E#!,3,..,5\$-!,3E08\$)!J&(F,37!,3!; '(3\$(-#,;!J,.,#183,5\$(-.6!*'E80.6!'3)!.\$!E&2 283,.6!&!)\$5\$0&;!'3)! ,2 ;0\$2\$3.! 'N'E80.6!P33&5'.,&3!O('3.9!'!K\$')\$(-#,;! '3)! :.8)\$3!.P35&05\$2\$3!O('3.! .&! J&(F! J,.,#! .#\$! %&6-'3)! O,(0-! G08<9! '3)! -\$5\$('0! ;8<0,E'.,&3-! J,.,#! .#\$! MPR :! Y)8E'.,&3! N&83)'.,&3A!!!

!!!!

I&3)! -\$(5\$)! '-! .#\$! O(')8'.\$! I(&7('2! 1,(\$E.&(!* &(!.#\$! B\p! R'.#2'.,E-! :;,\$E,'0,-! ;(&7('2! J#\$(\$! -#\$! *'E,0,.'\$)! E&3.('E! E&8(-\$J&(F! J,.,#! +,(7,3,'! -E#&&0! ;\$(-&33\$0A! %\$E'8-\$! &#! #\$(!)\$),E'.,&3!.&!. '\$'E#,37! '3)!0\$'(3,379!-#\$!(E\$,5\$)!382\$(&8-!.\$'E#,37!' J'()-!)8,(37!#\$(!E'(\$@! D\$E&73,..&3! &#! #\$('EE&2 ;0,-#2\$3.-!,3E08\$)-! .#\$! / 14! : +YM! aM ; ;0\$! &#! R6! Y6\$e! N'E80.6! MJ'())9! / 14! : #,3,37! :.' (!MJ'()-)9! +,(7,3,'!%'E#!G,.6! I8<0,E! :E#&&0-!O,*. \$)! "\$'E#\$(!&#!.#\$! L\$'(9!O(\$'!H\$EF!R,))0\$! :E#&&0! "\$'E#\$(!&#!.#\$!L\$'(9! 1',06!I(\$--!"\$'E#\$(!&#!.#\$!L\$'(9!'3)! .#\$! GY :P^!-H'.,&3'0!R8(\$0!O(\$3!MJ'())A!!

!

\\\\\\\\\\\\\\\\\\\\

!

G&2 2,..#\$! 2\$2<\$(-!'; ;(&5\$)!<6!83'3,2&8-!5&.\$!.\$#\$(\$_8\$-!.&!(\$3' 2\$!.\$#! 1\$; '(.2\$3.! &#! R'3'7\$2\$3.! .#\$! 1\$; '(.2\$3.!&#! R'3'7\$2\$3.! '3)! Y3.(\$; (\$3\$8(-#,;A! "\$'E#\$(!&#!.#\$! *&00&J,37! (\$-&08.,&3! J'-! <(&87#.! * &(.#! '-!'! (\$E&2 2\$3)'.,&3! &#! .#\$! ME')\$2,E! '3)! D\$-\$'(E#! M)5'3E\$2\$3.! G&2 2,..#\$! '3)! J'-!83'3,2&8-06!' ; ;(&5\$)!<6! '00! 2\$2<\$(-! ;(\$-\$3.! '3)! 5&.,37!

!

!""#\$%! 0(6\$(#&3! 1&(6I&(' &'! #61&36(\$7(1! 3! H&1&36(6I&(&'! #61&36(\$7(1! 3! H&1&36(!3' (&36#&'#&3&4#5I2''(

!

DY : /K+Y19! .#! ! 8;&3! .#\$! (\$E&2 2\$3)'.,&3! &#! .#\$! ME')\$2,E! '3)! D\$-\$'(E#! M)5'3E\$2\$3.! G&2 2,..#\$9! .#\$! %&'()! &#! +,-,&(-!'; ;(&5\$-! (\$3' 2,37! .#\$! 1\$; '(.2\$3.! &#! R'3'7\$2\$3.! .#\$! 1\$; '(.2\$3.!&#! R'3'7\$2\$3.! '3)! Y3.(\$; (\$3\$8(-#,;!,3! .#\$! :.(&2\$! G&00\$7\$! &#! %8-,3\$--!\$**E.,5\$I C806!=9!V@V@A!!!

!

D'.,&3'0\$?!! "\$'E#\$(!&#!.#\$! 1\$; '(.2\$3.!&#! R'3'7\$2\$3.!)\$0,5\$(-! .#\$! %'E#\$(!&#! :E,\$3E\$!,3! %8-,3\$--! M)2,3,-('.,&3! 2' [&('3)! 2,3&(!,3! 2'3'7\$2\$3.! '3)! .#\$! ,3.\$(-,E,;0,3'(6! E\$(*,E'.\$! ,3! \$3.(\$; (\$3\$8(-#,;A! "\$'E#\$(!)\$; '(.2\$3.!#'-!-8<2,..\$)! '! ;(& ;&- '0! .&! '0-&! &***(\$! '3!,3.\$(-,E,;0,3'(6! 2,3&(!,3!\$3.(\$; (\$3\$8(-#,;A!!

!

Y3.(\$; (\$3\$8(-#,;!(\$-\$'(E#! '3)!E&8(-\$-!<8,0)!&3!*&83)'.,&3! J&(F!,3! 2'3'7\$2\$3.,3! .#\$!)&2',3! &#! &(7'3,S'.,&3'0! <#'\$5,&(! '3)! -.('\$76A! 1&2',3! &#! \$3.(\$; (\$3\$8(-#,;!, -! -&! E0&-\$06! (\$0'.\$)! .&! 2'3'7\$2\$3.! .#! ! .#\$! ;(&*\$--,&3'0! '-&E'.,&3-! cME')\$26! &#! R'3'7\$2\$3.! '3)! :&8.#\$(3! R'3'7\$2\$3.!M--&E',.,&3d! #'5\$!')\$)! \$3.(\$; (\$3\$8(-#,;!),5,-,&3-A!!P3!') ,.,&39! &.#\$(!<8-,3\$--! -E#&&0-! #'5\$! '!)\$; '(.2\$3.! &#! R'3'7\$2\$3.! '3)! Y3.(\$; (\$3\$8(-#,;9! ,3E08),37! +,(7,3,'! G&2 2&3J'0.#! 43,5\$(-.,69! P3), '3! 43,5\$(-.,69! M(\$&3'! :.' \$! 43,5\$(-.,69! .#\$! 43,5\$(-.,6! &#! P&J'9!.\$!43,5\$(-.,6!&#!R,33\$-&'9!'3)!N',(0\$,7#!1,EF,3-&3!43,5\$(-.,6A!

O,5\$3!.\$#! ;(&Z,2,..6!&#!.#\$!. J&!*, \$0)-9!,.-! ;(& ;&- \$)!.&!#&8-\$!.\$#!6&837!'3)!7(&J,37!'E')\$2,E!

=V!

!

\$3.(\$;\$3\$8(-#; ;!;&7(' 2!' ! / 1 4! J ,.#,3!.\$#! R '3'7\$2\$3.! 1\$; '(.2\$3.A! "#\$!)\$; '(.2\$3.! J&80)!
;(&5,)\$!.\$#!(,7#.!\$E&\-6-.\$2!*&(!(\$-\$'(E#!'3)!.\$'E#,37!.&!7(&J!\$3.(\$;\$3\$8(-#; ;!J ,.#,3! / 1 4A!

=b!

!

"#\$!(\$;&(!*(&2!.\$#!I(&5&-!'0-&! ,3E08\$)! '!' ;(\$-\$3.'.,&3!&3!#&J!.\$#!G\$3.\$(!*(&!Q,7#!
P2;'E!I('E.,E\$-!-8;;&(-!-.8)\$3.!0\$(3,37!,3-,)\$!'3)!&8.-,)\$!.\$#!E0'--(&&2!<6!K,-'
R'6\$-9!YZ\$E8.,5\$!1,(\$E.&(!&*\$!.\$#!G\$3.\$(?!'3)!Y2,06!Q'(2&39!:.8)\$3.! :8;;&(!:\$(5,E\$-!
G&83-\$0&(A!"#\$6!),-E8--\$)!#,7#!,2;'E!;'E.,E\$-!'3)!0\$(3,37!-8;;&(!:\$(5,)\$)!<6!.\$#!
G\$3.\$(!'3)!#,7#0,7#.\$)!.\$#!J&(F!)&3\$!<6!:.8)\$3.! :8;;&(!:\$(5,E\$-A!
!

P3!.\$#!(\$;&(!*(&2!.\$#!+,E\$!I(\$-,)\$3.!*&(!D\$-\$'(E#9!1(A!1'5,)!%&J0\$-9!YZ\$E8.,5\$!1,(\$E.&(!
&*\$!.\$#!+,(7,3,'!P3-.,.8.\$!*&(!:;'E\$*0,7#.! '3)!M8.&3&269!;(&5,)\$)! '3!&5\$(5,\$J!&*\$!.\$#!
P3-.,.8.\$!"#\$!P3-.,.8.\$!J,00!,73,.\$!.\$#!G&22&3J\$'0.#^-!83,_8\$!'\$(&-;'E\$!'--\$-!&3!.\$#!
Y'-.\$(3!:#&(\$!'3)!#(&87#&8.!.\$!-\$.'!\$!'3)!J,00!*&E8-!&3!7(&J.#9!'0\$3.'!3)! ,33&5'.,&3A!
!

! 6 I 0 & 6 2 G 5 (G \$ 1 1 2 6 6 & & !

"#\$!D\$E.&(!E'00\$)!&3!R-A!B\$2;\$(!*(&!.\$#!(\$;&(!&*\$!.\$#!M.#0\$.,E-!G&22,..\$\$A!R-A!B\$2;\$(!
(\$;&(\$)!.\$#!'!D'3)'0\$!D,E#2&3)9!:\$3,&(!M--&E,'.\$!M.#0\$.,E!1,(\$E.&(!*(&!:;&(!
M)2,3,-('.,&3!'3)!:.8)\$3.\M.#0\$.\$!U\$0*('\$9!<(\$*\$)!.\$#!G&22,..\$\$!&3!.\$#! / 14!-.8)\$3.\
'.#0\$.\$!ME')\$2,E!I(&7('2!D'.\$A!
!

C\$3'!+, (7'9!:\$3,&(!M--&E,'.\$!M.#0\$.,E!1,(\$E.&(!*(&!1\$5\$0&;2\$3.9!;(&5,)\$)! '3!&5\$(5,\$J!&*\$!
.\$#!I(,(&(.6!M8.&2&.,5\$!G08<!'.! :A%A!%'00'(!:.'),829!J#,E#!,3E08\$)!!'*,3'3E,'0!8;)'!.\$!
'3)!&3&(!-822'(6A!
!

U&&!:\$0,79!1,(\$E.&(!&*\$!M.#0\$.,E-9!(\$5,\$J\$)!.\$#!<'EF7(&83)! '3)!-.'8-!&*\$!H'2\$9!P2'7\$9!
'3)!K,F\$3\$--!cHPKd!(\$-80.,37!*(&2!.\$#!;'-,37!&*\$!G'0,*&(3,'^-'N',(!I'6!&!I0'6!ME.A!
!

! "" # \$ % ! 0 (\$ 7 (1 2 3 4 6 & 5 (

"#\$!D\$E.&(!E'00\$)!*(&(!';;(&5'0!&*\$!.\$#!2,38.\$-!&*\$!.\$#!2\$\$.,37!#0)!&3!:\$;.\$2<\$(!=>9!V@=>A!4;&3!
'!2&.,&3!2')\$)!<6!R(A!Q,00!'3)!-

(\$;(\$-\$3.'.,5\$! .&! .#\$! %&'(! '3)! '!(;\$;(\$-\$3.'.,5\$! &*! .#\$! :.8)\$3.! O&5\$(3 2 \$3.! M--&E,'.,&3!
-#&80)!.#\$6!J,-#!.&!2 'F\$!E& 2 2 \$3.-A!

QA "#\$!;8<0,E!E& 2 2 \$3.-!-\$--,&3! J,00!<\$!0, 2,.,\$)!.&!m@! 2,38.\$-A!P*!., 2 \$!(\$ 2 ',3-!)8,(37!.\$!&3\$\
#&8(! ;8<0,E! E& 2 2 \$3.! -\$--,&3! '*.\$(! .#\$! ;(\$\(\$7,-.\$(\$)! -;\$'F\$(-! &**\$(! .#\$,(! E& 2 2 \$3.-9!
')),.,&3'0!,3),5,)8'0-! 2 '6!<\$!&**\$(\$)!.#\$!&; ;&(.83,.6!.&!-;\$'F9!<8.! J,00!<\$!0, 2,.,\$)!.&!-;\$'F!
*&(!&306!. J &! 2,38.\$-A!

! PA U(..\$3!E& 2 2 \$3.-! J,00!'0-&!<\$!'EE\$;.\$)!*(& 2!.#\$!)'. \$!.#'.!.\$#!;8<0,E!3&.,E\$!,-!,-8\$)!83.,0!VW!
#&8(-!;(,&(!.&!.\$! 2 \$\$. ,37!'! J#,E#!.\$!%&'(!E&3-,)\$(-!8,.,&3!'3)!*\$\$,3E(\$'--\$!'3)! 2 '6!<\$!
-8<2,..\$!)!3!#'()E&;6!&(!5, '\$ 2 ',0A!P3-.(8E.,&3-!*&(!)&,37!-&! J,00!<\$!,3E08\$)!3!.\$#!;8<0,E!
3&.,E\$!

! CA "#\$!%&'(! J,00!3&.!(\$-; &3)!.&!&('0!&(! J(..\$3!E& 2 2 \$3.-A!

! P3! 'EE&() '3E\$! J,.,#!!!VbA=\b@]cNd!&*!.\$#! 9!.\$#!%&'(!&*!+,-.&(-9!.#(&87#!.\$#!
D\$E.&(!&(!#,-h#\$(!)\$-,73\$\$! J,00!;(&5,.)\$!.\$#!;8<0,E! J,.,#!'3!\$Z;0'3'.,&3!*&(!'36!)\$5,'.,&3!*& 2!.\$#!
;(&[\$E.\$)!('37\$!&*!.\$#!;0'33\$)! ,3E(\$'-! ,3! 83)\$7(')8'.\$!.8,.,&3!'3)! 2 '3)'&(6!*\$-\$!.#'.! ,!
;(\$5,&8-06!;(&5,.)\$)!.&!.\$#!7\$3\$('0!;8<0,EA! : 8E#!\$Z;0'3'.,&3! J,00!<\$!;(&5,.)\$)!&('006!&(!,3! J(..\$3!
&(2!<\$&(\$)!.\$#!%&'(!)!'F\$-! *,3'0! 'E.,&3! &3! '36! 83)\$7(')8'.\$!.8,.,&3!'3)! 2 '3)'&(6!*\$-\$!
,3E(\$'-A! "#\$!%&'()^-! 2

3),37-!&!.#\$('338'0!'8),.!&*!.#\$/**,E\$!&*!.#\$(-\$,)3.! '3)!;(&5,)\$)! '3!8;)'!&3!&;\$3!
'8),.! ,--8\$-A!

