

!

! ! ! ! ! ! ! ! ! ! ! ! ! ! !
!"#\$%&'()*

*
+,-".*/01/2314526./7*01/17898/5*1/:*!/7./886./7!#\$%!

S61: 2158*C8<8164, *%<<.51/5>*GHHI *M*GHHO

!< :?* (-!GP!R!8?-: A: 3!@P!]#\$Ed`P!8*!: ?(* /0M: . (4! .+D=3: /+1 *! .0. / (D!21-!B1 *B(-/!, (*=(!B-1A4!(, : B=-: /+1 *!D14(3+*?!+*! /' (!>- (. (*B(!12!: !2+ (!4+ . : /(-! "!"]I`"!#X\$e0#XE%P!

!< :?* (-!GP!R!8?-: A: 3!@P!]#\$Ec`P!) .+*?!: *!(, 13=+/+1* : -0!: 3?1-+/' D! /! .13, (!/ (!A(+?'/ (4!, +(A!D: /(-+ 3+ . : /+1 *!>-1M3(D! 21-!4: /: !A: -(' 1=. (.P! "!"]#`"!EI c0EeFP!

!&' ://("!8P!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#\$F`P!W+*U+*?H*21-D: /+1 *!7' : -+*?!: *4!7=>>3+(-!G(/A1-U!J (. >1* .+, (* (. ! A+/' !9(3+, (-0!9(>(*4: M3+/0!12!: !S+DP! "!"#]c`"!ce0%I P!

!&' ://("!8P!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$X`P!L22(B/!12!+*21-D: /+1 *!. ' : -+*?!: *4!. =>>3+(-!*(/A1-U!- (. >1* .+, (* (. !1* ! /+D(0/10D: -U(!B: >: M3+/0!12!: !2+DP! "!"X!]#`"!EEX0EcEP!

!9' =D: 3!CP!R!8?-: A: 3!@P!]#\$X`P!C(-21-D: *B(!L, : 3=:/+1 *!12!7(-+ 3!S3!A!70. / (D. ;!8* : 30Z+*?/' (!HD>: B/!12! < 1-U21-B(! S3(b+M3+/0!: *4!&: .U!&+D(!@: +: /+1 *!) .+*?!7+D=3: /+1 *P! "!"Ed]#`"!E#F0EcFP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$X`P!L* : M3+*?U*1A3(4?(!. ' : -+*?!/' -1=?' !+*/-+* .#B!D1+/+ : /+1 *!: *4! >(-B(+, (4H&!. =>>1-/P! "!"E#]c`"!#E0cI P!

!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

!8?-: A: 3!@P!]#R!N=' : DD(4"!7P!]#R!N=' : DD(4"!7P!]#\$e`P!Lb>31-+*?!>(-B(>/+1 *!12!/(B' *13!70! =. (2=3*(. !: .! : !D(4+ : /1-!M(/A((*H&K! . =>>1-!/: *4!U*1A3(4?(!. ' : -+*?! "!"e]#`"!E0XP!

9' =D: 3!CP!R!8? -: A: 3!@P!]#\$X`P!5>/+D: 3!9(/(-D+*: /+1*!12!7(-, +B(!K: >: B+/0!21-!70./ (D.!A+! !7(*. +/+, (!8--+, : 3!J: / (P!
"IQ: 3/+D1-(!N9"!G1, (DM(-!#0#%P!

!

8? -: A: 3!@P"!N=' : DD(4"!7P"!R!&' : //(!"!8P!]#\$X`P!N1/+, : /+1*!: *4!U*1A3(4?(!.' : -+*?;!J13(!12!>(-B(+, (4!!&! .=>>1-/P!
"!5-3: *41"!SW"!Y: *=: -0!#0%P!]?8<5*+1D86*%K16: `!

!

&' : //(!"!

7+D: U"!Yp!g(3(0"!7P!R!8? -: A: 3"!@P!]#\$E!`P!L*/-(>-(* (= -.' +>"!||*1, : /+1*!: *4!5-?: *+B!a-1A/' !A+' *!@(-/!B: 3!712/A: -(!
S+D.P! N+: D+!SWP!
!
8? -: A: 3"!@P!R!7=*4: - : -? ' ; , : *"!CP!]#\$E%P!L./+D: /(.!12!/' (!C(-B(*!43(.!12!/' (!N: b+D=D!12!: !7(!/!12!J: *41D!@: -+; M3(.P!
"!7(: //3("!<8"!G1, (DM(-!#E0#dP!
!
7=*4: - : -? ' ; , : *"!CP7P!8? -: A: 3"!@P!"h' : *?"!iP!"R!K: . : M+: *B: "!8P!]#\$Ed`P!N+*+D: b! !C(-B(*!43(!12!N: U(.>: *!+*!C: - : 33(3!
N: B' +*(!7B' (4=3+*?C-1M3(DP!
!&: D>: "ISW"!G1, (DM(-!#0#%P!
!
< : ?* (-!GP!R!8? -: A: 3"!@P!]#\$E#`P!LD(-?(*B0!9(B+. +1*!7=>>1-/) . +*?!: *!8?(*!0M: . (4!N14(3+*?!8>>-1: B' P!
"!< : . ' +*?/1*!9K"Y=*(!EE0EdP!
!
9' =D: 3"!CP!R!8? -: A: 3"!@P!]#\$X`P!5>/+D: 3!9/(-D+* : /+1*!12!7(-, +B(!K: >: B+/0!21-!70./ (D.!A+' !7(*. +/+, (!8--+, : 3!J: / (P!
"!Q: 3/+D1-(!"N9"!G1, (DM(-!#0#%P!
!
8? -: A: 3"!@P!"N=' : DD(4"!7P!R!&' : //(!"8P!]#\$X`P!N1/+, : /+1*!: *4!g*1A3(4?(!7' : -+*?!; !J13(!12!C(-B(+, (4!H&!7=>>1-/P!
"!SW"Y: *=: -0!#0%P!]78<5*+1D86%K16: `P!
!
&' : //(!"8P!"8? -: A: 3"!@P!"R!N=' : DD(4"!7P!]#\$X`P!W+*U+*?!+*21-D: /+1*!'. ' : -+*?!: *4!. =>>3+(-!*(/A1-U!-(.>1* . +, (*(.!A+' !
4(3+, (-0!4(>(*4: M+3+/0!12!: !2+DP!8>>3+(4!Q=. +* (.!J(. (: -B' !: *4!K133(?(!&(: B' +*?!R!W(: -*+*?!K1*2(-(*B("15-3: *41"!SW!
Y: *=: -0!#0%P!
!
N=' : DD(4"!7P!R!8? -: A: 3"!@P!]#\$E`P!Lb>31-+*?!C(-B(>/+1*!12!&(B' *131?0!) . (2=3*(.!.!.! : !N(4+ : /1-!M(/A(((*!HK&!
.=>>1-!/: *4!g*1A3(4?(!7' : -+*?! "W: .!
@(? : ."!G@"!5B/1M(-!Ed0EeP!
!
8? -: A: 3"!@P!"G: *4U(130(-!)P!7=*4: - : -? ' ; , : *"!CP!R!8' D(4"!NP!]#\$E%P!7+D=3: /+1*!N14(3!: *4!8*: 30.+!12!: !9: / : !
< : -(' 1=. (!

#/: 86Y761: 2158*

9: /: !@+, =: 3z: /+1*!=. +*?!LbB(3"!5>(-: /+1* .!N: *: ?(D(*!/1]*3+*(!: *4!2: B(0/102: B(^!N: *: ?(D(*!/7B+(*B(!C-1\B/
N: *: ?(D(*!/C-+*B+>3(.!12!9: /: M: . (!N: *: ?(D(*!/70./D.!84, P!9QN7!]7_W!A#/' !5-: B3(!E\$a"!C-1?-: DD+*?!A#/' !
84, : *B(4!CW^7_W!]5-: B3(!E\$a"!70./D.!8*: 30.+!: *4!9(.+*!N: *: ?(D(*!/H*21-D: /+1*!70./D.!H*/-1!/1!Y: , :!
C-1?-: DD+*?!LB1DD(-B(!C-1\B!/N: *: ?(D(*!/P!

!

!

;!CZ'\$!%\$&'Z'&'!;!;

!

[E26/1=C8V.8K86*

9(B+. +1*!7B+(*B(!Y1=-*: 3!12!9: /: !7B+(*B(!: *4!8*: 30/4B. "!

+C([!\$&!;

!

+6EN845! /7./886*M*A142-5F! XD865.<8*; F<589"!S: 0(//(. #33(!7:/(!) *+, (-.#0"!#\$X0#\$\$F!
S: B=3/0!Lb>(-/+.(!70./(!D!+!;!A(M!M: .(4!.(: -B'!(?+*(!A'(-(!: *0!+*/(-./(!>(-.1*!A+/' +*!1-!1=/.+4(!/' (!1-?: *+Z: /+1*!
B: *!?!: *4![=+BU30!31B: /(!4(.+(4!2: B=3/0!D(DM(-.!M0!/' (+!:-(!: !12!(b>(-/+.(!M0!D(- (30!=-.*?#!U(OA1-4. !S: B=3/0!
Lb>(-/+.(!70./(!D!./1-(.!:!' 1-/4(.B->+/+.(!>-123(!12!: 3!2: B=3/0!D(DM(-.!A1-U+*?!: /S7) !+*!: !4: /: M: .(!
]' //;>^21-D.2>P=*B2.=P(4=^M(^-(.(: -B' ^H*/-1&1S: BLb>70.P' /D' P!Y1M!-(.>1*. #M3+/+(. !+*B3=4(!;
C-1\ (B!/!>3: **+*?!4(. +?+*?!4(. (31>+*?!/(./+*?!: *4!+D>3(D(*+*?!
&(B' *131?0!=(. (4;!87CPG(!/cP%!7_W!7(-, (-!#\$\$\$"!@QPG(!/!<+*41A.!! C!

!

+6EN845! /7./886*M*&((B1!8=/1D1+/+.(!a8"!) 78"IEFFF0#\$\$!
&((B1!8=/1D1+/+.(!AAA/((B1B1D !+!;! ?31M: 3!3(: 4(-!+*!:=/1D1+/+.(!(D+. .+1* .! : *4!+4(!B1*/-13!>-14=B/. P!Y1M!
-(.>1*. #M3+/+(. !+*B3=4(!;
<1-U+*?!+*!/' (!B: >: B+/0!12!/(: D!3(: 4(-!
8=/1D: /+*?!/' (! [= : 3+/0!B1*/-13!.0./ (D! =. (4!/1!D1*+/1-! : *4!D(: .=-(!>(-21-D: *B(!12!/' (!>-14=B/+1*!
3+* (! =.+*?!>-1B(. .!B1*/-13!B' : -./!
N: * : ?+*?!: 33!>' : . (!12!>-1\ (B!/!' : /!+*B3=4(. !>-1\ (B!/!+*+/+ : /+1*!.0./ (D!-([= (. /!A1-U!>3: *!"
-([=+ (D(*./!?: /' (-+*?!: * : 30.+."!4(. +?+*!. 12/A: -(!4(. (31>D(*./! : *4!/(./+*?!+D>3(D(*./+1*!: *4!
B=. /1D(-!/-: +*+*?!
712/A: -(! =. (4!+*B3=4(; !<+*41A. !#\$\$\$"!@Q!IP\$"!N7!LbB(3!#\$\$\$"!5WL!!

!

*

\$(O+#&!C*; ^'UU;* *

!

C-1?-: DD+*?W: *?=: ?(. ;!Y: ; : !G(/W1?1"!7_W"!CW^7_W"!@QPG(!/!Km"!Y: ; : !7B->/"!S1-/-: *!
9: /: M: . (!5-: B3(!E\$a"!7_W!7(-, (-!"N7!8BB(. ."!N07_W!
<(M!