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"#\$\$%&'()\*!\*, !-)\$!. /)01\$2(34\$5!  
"(6)'3\$!\*+, !"01/(17\*+30!'+"#)'+8\$!&#\$\$'\*

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9'3)(1'\*!: (#; +0)\$(<!  
=0+'(1!>20\$'!  
?\*%!@#BCDE!

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F 20+!)20!\*66G/07 \*60!\*+\*132(GH#+4!!1(#H!"#\$\$%&'())\$)\*I0,!\*IH1()0\$)IH01/(17\*+30!  
\*)!)20!J\*)20,1\*6!(/!J21\*\$!)20!=\*<'(1K)20!\$H'1')#\*6!20\*1)!(/!?\$(\$3(LK'+!MON1#\*1%!(/!BCDBA  
L2'32!60,!)(!)20!\*110\$)\$!(/!)2100!707N01\$A!)20%!H1(<(40,!\*!6((,!(/!H#N6'3!10\$H(+0\$!)2\*)!  
0#'346%\$H'660,!(<01!)20!N(1,01\$!(/!)20!&#\$\$'+!MO,01\*)'(+P!>20!\$'I+'/'3\*+30!(/!)20'1!  
QH01/(17\*+30R!3\*+!NO!I\*#I0,!N%!)20!\$)10+!)2!\*+,!, '<01\$')%!(/!)20\$0!10\$H(+0\$A!(/!#HH(1)!  
\*+,!3(+,07+\*)'(+!\*6'40A!)2\*)!L010!<('30,!\$(!<(3\*66%!'+!)20!7(+ )2\$!60\*,'+!I#H!)(\*+,!  
/(66(L'+!I!)20!)1\*6!(/!S04\*)01'+\*!=\*7#)\$0<'32A!T\*,0;2,\*!>(6(4(++'4(<\*A!\*+,!?'\*1'\*!  
.6%(42'+\*!U\*I0\$!ECAA!BEA!\*+,!BVA!10\$H03)'<06%WP!>20!, '\$3(#1\$0!\$#11(#+, '+!I!)20!I1(#H8\$!  
H01/(17\*+30M\*7H6/'0,!N%!)20!H\*\$'\$'(+!\$!\$#11(#+, '+!I!)20!'77'+0+)!100603)'(+!(/!96\*, '7'1!  
"#)'+'!)(!\*!)2'1,!017!\*\$!H10\$',0+)'(+!?'\*%XA!BCDBA!10<0\*6\$!7\*+%!0701I'+!I!'/)\$!'+!&#\$\$'\*8\$!  
\$(3\*6!\*+,!H(6)'3\*6!/\*N1'3P!.)!\*)!'70!L20+!&#\$\$'\*!/\*30\$!'+310\*\$'+!I6%!32\*660+!'+!I!O#0\$)'(+!\$!  
\*N(#)!\$!+\*)'(+\*6!',0+)'%A!60\*,01\$2'H!A!\*+,!I(60!'+!)20!H(\$)G=(<'0)!L(16,A!)20!\*3)'(+A!\*110\$)!  
\*+,!\$#N\$00#0+!)1\*6!(/!"#\$\$%&'())\$0!<0\$!\*\$!\*+!OH'30+)01!/(1!\*!, '<01\$0!\*11\*%!(/!+\*)'(+\*6!\*+,!  
'+)01+\*)'(+\*6!O#\*40\$P!

>20!,01100!)(!L2'32!H(6)'3\*+A!60\*,01\$!(/!3'<'6!\$(3'0)%A!/(66(L01\$!(/!)20!&#\$\$'+!  
Y1)2(,(Z!/\*')2A!\*+,!'+/6#0+)'\*6!/'I#10\$!(/!)20!\*1)!\$30+0!'!&#\$\$'\*!1\*66'0,!\*1(#+,!)20!"#\$\$%!  
&'())1\*6!\$H0\*4\$!)(!)20!H\*1)'3#6\*16%/1\*#I2!)!7'+!I!(/!)20!H01/(17\*+30!\*+,!)\$!'7H6'3\*)'(+!\$!  
'+!I\*#I'+!I!&#\$\$'\*8\$!0701I'+!I!\$(3\*6!\*+,!H(6)'3\*6!)10+, \$P!>20!, '\$H1(H(1)'(+\*)06%!2'I2!  
,01100!(/!70,\*!\*)0+)'(+!I'<0+!)(!)20!3\*\$0!N%!)20!F0\$)A!2(L0<01A!2\*\$!\*+,0,!N()2!)07H(1\*6!  
\*+,!\$H\*)'\*6!, '70+\$'(+!\$!)(!)20!3\*\$0!M0<(4'+!I!J(6,!F\*1!120)(1'3!N()2!'!&#\$\$'\*!+\*,!\*N1(\*,P!  
>0+\$'(+!\$2\*!<0!/6\*10,!NO)L00+!'#)'+'\*+,!'+)01+\*)'(+\*6!H(6)'3\*6!60\*,01\$!(<01!O#0\$)'(+!\$!  
\$#11(#+, '+!I!)20!)1\*+\$H\*10+3%!\*+,!'7H\*1)'\*6')%!(/!)20!&#\$\$'\*8\$![\$\$)'30!\$%)07P!"(6)'3\*6!  
\*3)'<'\$)A!7#\$'3\*+A!\*+,!3060N1)'0\$!2\*!<0!H#N6'3\*66%!(+'0,!) (I0)201!'+'+)01+\*)'(+\*6!

\$(6', \*1')%L')2!" #\$\$\$!&' (!'+!, 0/0+\$0!(/!/100, (7\$(/!H(6')'3\*6!\*+, !\*1)'\$)'3!OZH10\$\$\$' (+P!\#)!)!  
'\$!+ ()!0+ (#! 2!) (!)\*40!" #\$\$\$!&' ()8\$!H01/(17\*+30!\*)!/\*30!<\*6#0M!10\*)'+!!)!\$' 7H6%!\*\$!\*+!  
OZH6(1\*)' (+!(/!/100, (7!(/!\$H0032P!!>20!! 1(#HM!/\*1!7 (10!(/\*!3(+30H)#\*6!\*+, !H(6')'3\*6!\*1!)!  
3(6603)'<0!1\*)201!)2\*+!\*!1(34!! 1(#HM! (H01\*)0\$!(+!\*!\$)1'3)!N\*\$'\$!(/!'660! \*6')%]0\*32!707N01!  
3(+\*\$3' (#\$6!\$\*31!/'30\$!H01\$(+\*6!\$\*/0)%/(1!)20!\$\*40!(/!)1\*+\$7'))'+!!)20!! 1(#H8\$!H(6')'3\*6!  
70\$\$\$\*!0!' +!0<01%!#+\$\*+3)'(+0, !, 07 (+\$)1\*)' (+P!!!

>2'\$!)20\$!\$!#+, 01)\*40\$!) (!OZH(\$0!\*+, !32\*660+!0!\*\$\$#7H)'(+!\$#32!\*\$!'+)01+\*)'(+\*6!  
\*+, !&#\$\$\*'+!7'\$10\*, '+!\$!(/!" #\$\$\$!&' ()8\$!', 0(6(1%!\*+, !! (\*6\$P!!?'\$3(+30H)'(+!\$\*+, !2%#01N(60!  
2\* <0!, (7'+\*)0, !)20!, '\$3(#1\$0!)2\*)!/(66(L0, !)20!H01/(17\*+30P!! . !N\*6\*+30, !<'0L!(/!)20!" #\$\$\$!  
&' ()!H20+ (70+ (+!100# '10\$!3#6)#1\*6M!2'\$)(1'3\*6!\*+, !H(6')'3\*6!3(+OZ)#\*6'; \*)' (+P!Y<01!)20!  
3(#1\$0!(/!+'+0!\$03)'(+!\$M)2'\$!)20\$!\$!L'66!OZ\*7'+0!" #\$\$\$!&' ()8\$!H1(00\$)!\*!'+\$!)!20!N\*34, 1(H!  
(/\*!6\*1!0!\$H03)1#7!(/!10\*3)'(+!\$/1(7!H1(7'+0+)!' +, '<', #\*6\$M!\$(3'\*6!7 (<070+)!\$!\*+, !  
106'I' (#\$!! 1(#H\$P!!>2'\$!\$)#, %!L'66!H\*1\$0!)21(#! 2!)20!(/0+!#+3(7/(1)\*N60!\*+, !20\*)0, !  
, '\$3(#1\$0!\$#11(#+, '+!!)20!! 1(#H8\$!J21'\$!)!20!=\$<'(1!H01/(17\*+30!\*+, !)20!10\$#6)\*+!)!1\*6M!  
\*+, !, 07 (+\$)1\*)0!2(L!)20!" #\$\$\$!&' ()!H20+ (70+ (+!\*3)0, !\*\$!\*!3\*)\*6%)!/(1!\$01' (#\$!  
, '\$3#\$\$\$' (+!\*\$N(#)!20!/)#10!(/!H(\$)G= (<'0)!&#\$\$\*P!!!

=03)'(+!-!H1(<', 0\$!\*!2'\$)(1%!(/!" #\$\$\$!&' ()8\$!\*3)'<)'0\$!H1'(1!) (!)20'1!J21'\$!)!20!=\$<'(1!  
H01/(17\*+30P!!-)!H(\$)'(+!\$" #\$\$\$!&' ()M)20'1!70)2(, \$M!\*+, !)20'1!, 0(6(1'0\$!L')2'+!\*!N1(\*, 01!  
3(+OZ)!(/!7#\$'3\*6M!H(6')'3\*6M!\*+, !\*1)'\$)'3!'+/6#0+30\$M!'+36#, '+!!)20!+ ()(1'(#\$!! 1(#H!9'+\*P!!  
" \*1)!(/!)2'\$!103(+)\$1#3)'(+!L'66!106%!(+!'+)01<'0L\$!\*+, !H#N6'3!\$\*)070+)!\$!'<0+!\* /)01!)20!  
\*110\$)P!!!

=03)'(+!-!)10\*)\$!"#\$\$%&'()\*8\$!\*3)#\*6!H01/(17\*+30M\*\$!L066!\*\$!)20!<'1\*6!7#\$'3!<',0(!(!  
)20!H01/(17\*+30!)2\*)!7\*,0!)207!L(16,6/\*7(#\$M\*\$!)0Z)\$!30+)1\*6!(!)20!#+,01\$)\*+, '+!!(!  
)20'1!/\*70!\*+,!)20'1!3(+!)1(<01\$%P!-+)2'\$!\$03)'(+!-!(//01!\*!36(\$0!10\*, '+!!(//!)20!7#\$'3!<',0(8\$!  
6%1'3\$!\*+, !\*!, '\$3#\$\$'(+!(!)20!H(6!)'3\*6!0<0+)!)2\*)!H1(7H)0, !10\*3)'(+M\*\$!L066!\*\$!\*+!  
'+)01H10)\*'(+!(!)20!11(#H8\$!#\$0!(//!7\*!0\$M!\$H03!/'3\*66%M)2(\$0!(//!)20!/07\*60!N(, %!\*+, !)20!  
3\*)20, 1\*6!)\$06/P!!!

=03)'(+!---!H1(<',0\$!\*!10\*, '+!!(//!)20!"#\$\$%&'()\*1'6!'!+!?\$(\$3(L8\$: 2\*7 (<+'320\$4%!  
^('\$)1'3!)J(#1)P!-)!\$3!#)'+';0\$!)20!3(#1)1((7!)3)3\$!\*+, !)20![(#1+\*6'\$7!\$#11(#+, '+!!)20!  
3\*\$0M'+!L2'32!S04\*)01'+\*!=\*7#)\$0<'32!T\*, 0;2, \*!>(6(4(++'4(<\*!\*+, !? \*1'\*!. 6%(42'+\*!  
L010!32\*110, !L')2!Q2((6'I \*+'\$7!#3(77'))0, !N%!\*+!(1I \*+';0, !11(#H!(//H01\$(+!N%!H1'(1!  
3(+H'1\*3!7())<\*)0, !N%!106'I'(#\$!2\*)10, PRD!>2'\$!\$03)'(+!07H2\*\$';0\$!)20!106'I'(#\$!N\*\$'\$!/(1!  
)20!H1(\$03#)'(+!\*+, !0#0\$)'(+!)20!0)2'3\*6!3(+, #3)!(//!)20!H\*1)'0\$!' +<(6<0, P!!!

=03)'(+!-9!\*+\*6%;0\$!)20!'7H\*3)!(//!"#\$\$%&'()\*!L')2'+!)20!&#\$\$\*\$+!M0,01\*)'(+P!-!, 1\*L!\*!  
, '\$)'3)'(+!N0)L00+!(//'3\*6!10\$H(+\$0\$M'+36#, '+!!)2(\$0!N%)20!"#)'!+\*, 7'++'\$)1\*)'(+!\*+, !  
10H10\$0+)\*'<0\$!(//!)20!&#\$\$\*\$+!Y1)2(, (Z!J2#132M!\*+, !H(H#6\*1!10\$H(+\$0\$!0701I'+!I/1(7!  
\$#32!11(#H\$!\*\$!&#\$\$\*\$+!Y1)2(, (Z!N06'0<01\$M#H\$!

=03)'(+!9!\$H03'/3\*66%!, '\$3#\$\$0\$!)20!3(7H6'3\*)0, !\*+, !(/)0+!7'\$#+, 01\$)((, !  
106\*)'(+2'H!(/!"#\$\$%&'()!)(!&#\$\$\*8\$!#1N\*+!(HH('\$)'(+!7 (<070+)P!w010!-!\*))07H)!(  
, 0+)'/%!)20!H1([03]0, !! (\*6\$(/!)20!(HH('\$)'(+8\$!7 (\$)!H1(7'+0+)!60\*, 01\$!\*+, !)20'1!\*))'#, 0\$!  
) (L\*1, \$!"#\$\$%&'()8\$!N1\*+, !(/!H1()0\$)M!L2'60!0<\*6#\*)'+!!)20!, 01 100\$!(/!' +36#'\$<')%!\*+, !  
0Z36#'\$<')%!, 07 (+\$)1\*)0, !N%!)20!\*+) 'G" #' +!1\*66'0\$!(/!)20!H\*\$!)2100!%0\*1\$P!!>2'\$!\$03)'(+!\*6\$(!  
) (#320\$!(+!)20!<\*N'6')%!(/!)20!(HH('\$)'(+!)(!\*//03)!32\*+!0M!(1!0<0+!\$'7H6%!)(!107\*' +!  
1060<\*+)P!

! =03)'(+!9-!\$31#)'+'; 0\$!10\*3)'(+!\$) (!!"#\$\$%&'()!/1(7!N0%(+, !&#\$\$\*8\$!N(1, 01\$M  
0\$H03'\*66%' +!)20!x+' )0, !=)\*0\$!\*+, !F 0\$)01+!y#1(HO!L2010!)20!!1 (#H8\$!7 (\$)!<(3\*6!  
\$#HH(1)01\$!\*10!N\*\$0, P!-!H(' +)!(#)!)20!H01\$'\$)0+30!(/!J(6, !F \*1!120)(1'3M

L'66!\$'+4!' +)(!(N\$3#1')%!(1!/' +, !3(+)' +#\*)' (+!' +!)20!' +310\*\$'+!6%!1\*, '3\*6!' +, !'+)01+\*)' (+\*6!  
\*3)' (+\$!(/!11(#H\$!\$#32!\*\$!M070+P!

?%!10\$0\*132!/(1!)2' \$!)20\$'\$!N01 \*+' +=0H)07N01!(/!BCDB!\* +, !2\*\$!I (+0!(+!) (/(66(L!  
)20!70, '\*!\* +, !31)'3\*6!, '\$3(#1\$0!10! \*1, '+I!" #\$\$\$!&' ( )!\* +, !)20!&#\$\$ '\* +!H(6)'3\*6!36'7\*)OP!  
^#0!)(!)20!1030+!)!+\*)#10!(/!)20\$0!, 0<06(H70+) \$!<01%!/0L!\*3\*, 07'3!\$(#130\$!70+)' (+!" #\$\$\$!  
&' ( )!\* )! \*66P!>2' \$!2\*\$'+030\$\$')\*)0, !)2\*)!)20!7 \*[(1')%!(/!7%!\$(#130\$!3(70!/1(7!(+6'+0!  
H01' (, '3\*6\$!N()2!y+!6'\$2G!\* +, !&#\$\$ '\* +G!6\* +I #\* I OP!=(70!\$2(1)!\*1)'360\$!\* +, !H(\$)\$!(1'I '+\*)0!  
(+6'+0A!(+!N6(I \$!(1!M\*30N((4!H\* I O\$K \* +, !

"#)' +8\$!\* ++ (#+3070+)!(/!2'\$!' +)0+) '(+\$!) (!1#+!/ (1!\*!)2'1, !H10\$', 0+) '\*6!)017<sup>B</sup>!\*!\$\*)070+)!  
\*33(7H\*+'0, !N%!\*!<(3\*6!10\*3)' (+!/1(7!<\*1' (#\$(HH('\$)' (+!7 (<070+)!)2\*)!! \*'+0, !\*+!  
0+(17 (#\$!\* 7 (#+)!(/!' +)01+\*)' (+\*6!\*))0+) '(+P!!^#1'+!!)20!0+\$#' +!3#6)#10!L \*1!'' #\$\$%&' ()8\$!  
#+3(7H1(7'\$'+!!) \*40!(+!|0+, 01!106'I' (+!\*+, !H(6!)\*3\$L \*\$!N()2!, 07 (+';0, !\*+, !', (6';0, !N%!  
)20!' +310\*\$'+!6%!H(6\*1'; 0, !3\* 7H\$!\*\$!)20!N\*+, !N03\* 70!\*!

! >2'\$!32\*1\*3)01'\$)'3!\$0)\$!' #\$\$%&' (!\*H\*1)!/1(7!)20!/07'+ '\$)GH#+4!N\*+, \$!)2\*)!\$01<0!\*\$!  
)20'1!7#'\$3\*6!'+\$H'1\*)' (+M+\*706%)2(\$0!'+<(6<0, !'+!)20!&' (!|1116!7 (<070+)!(/!)20!0\*16%!  
}C\$P!!>20\$0!F 0\$)!3(\*\$)! . 701'3\*+!N\*+, \$M'+36#, '+I!=60\*)01G: '++0%M'\4'+!': '66M\1\*)7 (N'60M!  
w#l l %!\0\*1M\*+, !w0\*<0+\$!) (!\0)\$%M1 (\$0!#H!#+, 01!\*!N\*++01!(/!/07\*60!07H(L0170+)!\*+, !  
1\*I0!'+!)20!7', \$)!(/!\*!l0+01\*6!6\*I!'+!)20!L (70+8\$!1'12)\$!7 (<070+)P!!"1(<(40, !N%)20!l \*'+\$!  
(/!)20!&'l2!) (!z'/0!3\*7H\*'l +!(1l \*+';0, !N%)20!J21'\$)'\*+!J (\*6)'+(+M\*3)'<'\$)!L (70+!'!'+!)20!  
" \*3'/3!T(1)20\*\$)!N0l \*+!#\$'+l!7#'\$3!/0\$)'<\*6\$!\*+, !\$06/GH#N6'\$20, !/



! --+!\* + ()201!\$\*)070+)!N%!" #\$\$%!&' ()A!20!, '<01\$')%!(/' +/6#0+30!\$!/#1)201!10<0\*60, A!

)%' +I!)20!N\*+, !) (!N()2!, (70\$)'3!\*+, !'+)01+\*)' (+\*6!)1\*, ')'+\$5!!

-)8\$!H(\$\$'N60!)(/' +, !/0\*)#10\$!(/!D} }C\$!. 3)' (+ '\$7!' +!(#1!H01/(17 \*+30\$A!L2'60!

, 07 (+\$)1\*)'(+ \$! \* +, !\*1)!H'030\$P!!. 7 (+I!)20!7 (\$)!/\* 7 (#\$!\*10!)20!Q" \*6\*30!&0<(6#)'(+AR!' +!  
L2'32!, 07 (+\$)1\*)(1\$!70)2(, '3\*66%!(<01)#1+0, !\$0<01\*6!H(6'30!<02'360\$!\*\$!\*!\$)\*070+)!  
\*I \*'+\$)!H(6'30!3(11#H)'(+!' +! =)!!" 0)01\$N#1I! \* +, !Q. !^'34!w06, !" 1'\$ (+01!\*!)!20!M=\AR!)20!  
7\*\$ \$' <0!H2\*66#\$!H\*'+)0, !(+)(!\*!, 1\*LN1', I0!L2'32!L20+!1\*\$0, !H('+)0, !)20!0103)'(+!\*!)!20!  
M=\!20\*, 0#\*1)01\$P!\#)!'+!\$H')0!(/!)20!6\*)01!H'030!1030' <' +I!)20!BCDC!-++ (<\*)'(+!H1'; 0!/1(7!  
)20!T\*)'(+\*6!J0+)01!/(1!J(+))07H(1\*1%! . 1)\$!' +! ? (\$3(L!9(' +\*8\$!1030H)'(+!' +!)20!H#N6'3!  
\$H2010!2\*\$!N00+!/\*1!/1(7!L \*17P!!=0<01\*6!(/!)20'1!\$)#+) \$!2\* <0!' +<(6<0, !)20!\$2(34' +I!#\$0!(/!

>20!N\*+, 8\$!+\*70!32\*60+!0\$!)20!+0!\*)'<0!(!1, '1)%!3(++()\*'(+!\$#11(#+, '+!|/07\*60!  
!0+!)\*6\*!N%!\*))07H)'!+!)(!1036\*7!)20!L(1, !QH#\$\$%RM!\*!H1\*3)'30!L')2!1(())!'+!)20!&'()|1116!  
7(<070+)P!!. 33(1, '+!|)(!(#1+\*6\$)!z'+, \$\*%|†(6\*, ;5!

M1(7!\* , '+!|\*!\$)1'+!|(/!1(L6'+!|3(+\$(+\*+)\$!)(!20!HO')0!OH')20!0649) (!  
3(+/1(+)'!+!)20!3(++()\*'(+!(/!20!L(1, !69: .,(1'())!1116\$!H'(+0010, !\*!|10+;%!  
(/!6'+!#'\$)'3!\$\*6<\*!0![(N\$!)2\*)!107\*'+\$!3(+)!1(<01\$\*6!) (, \*%P!|z0\*, '+!|)2'\$!  
32\*1!0!L\*\$!)20!N\*+, !\ '4'+!': '66!L2(\$0!/1(+)!L(7\*+! : \*)2600+!w\*++\*!  
/\*7(#\$6!#0, !)(!H01/(17!L')2!)20!L(1, !MWX!(\$31\*L60, !\*31(\$!201!\$)(7\*32!  
\*+, !L2'32!321'\$)0+0, !)\$!D} }E!, ON#)!\*6N#7!L')2!\*!H1(<(3\*)'<0!))605!N: 66Y(  
Q-6//HK3?>(((

>2#\$M! #\$\$\$!&'()!2\*\$!) \*40+!\*!3(+/1(+)\*'(+\*6!\$)\*+30!1!2)!(/!)20!N\*)M/(13'+!|!L2(0<0!  
0+3(#+)01\$!)207!)(!'770, '\*!06%!0+!\*!0!L')2!)20!\$07\*+)'3\$!(/!)20!1!+\*70!\*+, !0<\*6#\*)0!  
)20!1!(L+!H103(+30H)'(+!\$#11(#+, '+!|)!>2'\$!0<\*6#\*)'(+!(33#1\$!0<01%)'70!\*+!  
(HH(1)#+'%)!)(3(77#+\*3\*)0!)20!N\*+, 8\$!+\*70!\*1\*\$0\$M7\*4'+!|)20!\$H0\*401!(!L1')01!\*!H\*1)!(/!  
\*+!(+!('!+!|, '\*6(!!N(#)!20!\$\*)#\*\$!+, !70\*+'+!|(/!)20!L(1, !QH#\$\$%PR!>20!11(#H8\$!\*, (H)'(+!  
(/\*+!y+!6'\$266\*+!#\*!0!+\*70!\*6\$(!'7H6'0\$!\*+!y+!6'\$266\*+!#\*!0!7\*140)!(1!\*#, '0+30!/(1!)20!1!  
70\$\$\*!0P!>2'\$!', 0+)'/'3\*)'(+!L')2!\*!L0\$)01+!\*#, '0+30!\$!/1\*#!2)!L')2!'7H6'3\*)'(+!\$!  
10! \*1, '+!|!L0\$)01+!<\*6#0!\$%)07\$!\*+, !3(+30H)\$!(/!7(1\*6)%P!|J(+!\$0!<\*)'<0!&#\$\$\*'+!H1'+)!  
70, '\*!)2\*)!3(+, 07+!)20!#\*\$!0!(/!)20!L(1, !\*!0!0#'34)!(30+\$(1!)!1(7!)20!1!3(<01\*!0!(/!)20!  
!1(#H!<\*!)20!#\*\$!0!(/!1\*L6'Z0\$P!|Y)201\$!'7H6!H1'+)!20!L(1, !'+!J%1'66'3!)(3(+<0%)20!  
H2(+0)'3!)017!N#)!\*(<(' , !\*34+(L60, !'+!|)20!y+!6'\$2!70\*+'+!P!-+!0\*32!3\*\$0!)20!H1'+)!70, '\*!  
0+, (L\$!)20!+\*70!0" #\$\$\$!&'()R!L')2!\*+!\*#1\*!(/!(N\$30+)'%!\*+, !/(10'I++0\$!)2\*)!301)\*'+6%)20!  
\*#, '0+308\$!1030H)'(+!(/!)20!N\*+, P!

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DC!z'+, \$\*%|†(6\*, ;!QN: 66Y(-!w\* <'+!|\*!?(70+)PR!M98.H3(. #!P!B•!|BCDBP!  
[2\)\)H5{L L L P \\$ 6 \\*}OP3\(7{\\*1}360\\$,{ \(#N60•Z{, \(#N60Z{BCDB{C•{•H#\\$\\$\\$•'\\$•2\\* <'+!•\\*•7\(70+\)•H#\\$\\$\\$•1'•\(\)•1\\*6•H#  
\\$•\)20•H•L\(1, •N\\*34•+•\)20•\\$H\(6'!2\)•P2\)76€', , \\$7•\)L•N#\)\)\(+•32#+4%](#)

--!

. /)01!)20'1!MON1#\*1%!BD!BCDB!H01/(17\*+30!+)20!J\*)20, 1\*6!(/!J21'\$!)20!\*=\* <' (1!<br>"#\$\$%&'(!L(#6, !0+)01!' +)(!\*!H01' (, !(/!L(16, L', 0!/\*70!31'7'+\*6!)1\*6!+\*, !/(1!)L(!(/!)20!<br>, 0)\*'+0, !707N01\$!3(+<'3)'(+!\*+, !H1'\$(+P!.. 7(+!!)20!/'<0!N\*+, !707N01\$L2(!H\*1)'3'H\*)0, !<br>' +!)20!H01/(17\*+30!(+6%!T\*, 0; 2, \*!>(6(4(++'4(<\*!S04\*)01'+\*! =\*7#)\$0<'32!+\*, !?\*1'!\*<br>. 6%(42'+\*!L(#6, !N0!\*110\$)0, !)20!107\*\*'++!!)L(!707N01\$!2\*<' +! !/60, !)20!3(#+)1%)(!<br>H1()03!)!20'1!', 0+)'!0\$!/1(7!)20!H(6'30P!

\0/(10!)20!OZ)0+\$<0!60! \*6!\*+, !H(6')'3\*6!3(+ \$00#0+30\$(/!)2'\$!3(+301)!(!NO!<br>#+, 01\$)((, !!)!\$!+030\$\$\*1%)(!/'1\$)!3(+ )OZ)#\*6'; 0!N()2!)20!3(+ )0+)(/!)20!H01/(17\*+30!\*+, !<br>)20!6(3\*)'(+P!>20!/'<0!L(70+!\*/)01!0+)01'+!!)20!3\*)20, 1\*6!H1(300, 0, !)(!, (+!)20'1!<br>N\*6\*36\*<\*\$!) \*40!)20'1!H6\*30\$(+!)20!\$(60\*\$!+\*, !4+006!L2'60!31(\$\$'+!!

Y#)RP!!-+!T (<07N01!BCDBM/I -H(U.98L.G<8\$!LON\$')O!H#N6'\$20, !L2\*!)!) (#)0, !\*\$!)20!Q/'1\$)!6')01\*6!  
)1\*+\$6\*)' (+R!(/!)20!\$(+I 8\$!6%1'3\$M L2'32!\*33(7H\*+'0\$!)20!J%1'66'3!)0Z)PDD

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[DD!v0//10%!> \\*%601AQF 2\\*\)!" #\\$\\$%!&'\(\)8\\$!#"#+4!"1\\*%018!&0\\*66%!=\\*', PR! / -H\(U.98L.G<3\(T \(<07N01!•A!BCDBP!!  
2\)\)H5{ {L L L P}20\\*\)6\\*+\)'3P3\(7 {'+'01+\\*\)' \(+\\*6{\\*132'<0{BCDB{DD{L2\\*}GH#\\$\\$%G1'\(\)\)\\$GH#+4GH1\\*%01G10\\*66%G  
\\$\\*', {B@V~@B{!](#)

9'1I'+!N'1)2GI'<01!(/!| (, M  
, 1'<0!\*L\*%!"#)'+'!  
^1'<0!\*L\*%!"#)'+M, 1'<0!\*L\*%!"#)'+'!  
!  
\6\*34!/1(34M! (6, 0+!OH\*#60))O\$!  
"\*1'\$2'(+01\$!31\*L6!N(L'+I!!  
%)(L\*1, !)20!H1'0\$)M, #1'+I!)20!y#32\*1'\$)\$!  
M100, (7<\$! 2(\$)!%2\*\$!I (+0!)(!20\*<0+!  
. !I\*%GH1', 0!H\*1\*, 0!%2\*\$!N00+!\$!\$0+!) (!='N01'\*!  
'+'\$2\*3460\$!  
!  
>20'1!32'0/!\$\*'+)!'\$!)20!20\*, !(/!)20!: | \!  
w0!60\*, \$!13(+<(!(/!H1()0\$)(1\$!)([\*'6!  
=(!\*\$!+())(!'+\$#6!)!20!w(6'0\$)!Y+0!

M1 (7!)20!<01%!/1\$)!<01\$0M!)20!6%1'3\$!3\*66!\*)0+)' (+!) (!)20!<'1)#\*66%!'+0Z (1\*N60!)'0!  
NO)L00+!106'I '(+!\*+, !H(6)'3\$!+!H(\$)\$G=(<'0)!&#\$\$\*#L2'60!)#1+'+!!)20!106\*)' (+\$2'H!(+!)\$!  
20\*, !)(!H(\$)' (+!\$#HH(1)!"#\$\$%&'()8\$!(L+!1\*, '3\*6'\$7P!>2'\$!36(\$0!106\*)' (+\$2'H!NO)L00+!)20!  
32#132!\*+, !)20!\$\*)0M'+!\$H')0!(/!\*!3(+)\$')#)' (+\*6!\$0H\*1\*)' (+!NO)L00+!)20!)L (DVM!'\$!\*!10\$#6)!(/!  
)20!\*+)'6106'I '(+!H(6'3'0\$!(/!)20!=(<'0)!x+' (+P!>20\$0!H(6'3'0\$!60, !)(!\*!H01\$'\$)0+)\*+, !0<01G  
'+)0+\$'/%'+!!, 0/0+\$'<0+0\$\$(/!&#\$\$\*'+!Y1)2(, (Z!\*I\*\*+\$)!\*+%!H0130'<0, !0Z)01+\*6!)210\*)!' +!  
)20!H(\$)\$G=(<'0)!, 03\*, 0\$P!

>20!2'\$)(1%!(/!)20!J\*)20, 1\*6!(/!J21'\$!)!20!\*=\*('<'1(13\*+!\$20, !6'I 2)!(+)(!)20!\$%7N'('\$'\$!  
NO)L00+!)20!\$\*)0!\*+, !)20!32#132!' +!)20!H(\$)\$G=(<'0)!&#\$\$\*#P!>20!103(+)\$1#3)' (+!(/!)20!  
3\*)20, 1\*6!' +!BCCC!2\*\$!N03(70!\*!\$)'7#6#\$/!(1!)20!32\*+!0\$!' +!(//3'\*6!=(<'0)!\*+, !H(\$)\$G=(<'0)!  
)#), 0\$)(L\*1, \$!106'I '(+!)21(#!2(#)!20!)L0+)'0)2!\*+, !L0+)%6/'1\$)!30+)#1'0\$P!// 20!  
J\*1+0!'0!J0+)018\$!\*+\*6%)!?'\*1'\*!z'H7\*+!06\*N(1\*)0, !(+!)20!1(60!(/!)20!&#\$\$\*'+!Y1)2(, (Z!  
J2#1325!Q>20!! (<01+70+)!106'0\$!(+!)20!32#132!/(1!6(%\*6)%!\*+, !\$#HH(1)M\*+, !)20!32#132!2\*\$!  
\*6L\*%\$!106'0, !(+!)20!\$\*)08\$!!0+01(\$')%, P^#1'+!!"#)' +8\$!0603)' (+!3\*7H\*'I +M\*!+#7N01!(/!  
, 03'\$' (+\$!L010!7\*, 0!)2\*)!L010!NO+0/'3\*6!) (!)20!32#132M'+36#, '+!!(+!10\*6!0\$\*)0!\*+, !  
N\*34'+!!(/!1106'I'(\$!\$32((6\$PRD-!>2#\$M, #1'+!!)20!"#)' +!H10\$', 0+3'0\$!\*+, !H1'70!  
7'+'\$)1\*)' (+M!20!L\*\$!N60!)(! \*\*'+!\*!\$'I +/'3\*+)\*7 (#+)!(/!H(6)'3\*6!\$#HH(1)!/1(7!)20!  
(1)2(, (Z!/\*')2/#6!N%!

Spl sgdj e!ei e!Žpdj !-prj e!i ™kl e!e! psdgbce!U>20!^\*%!(/!=\*' +)!''0)01!\* +, !=\*' +)!  
M0<1(+\*'!(1!>20!^\*%!(/!M\*7'6%!z(<0!\*+, !M\*')2/#6+0\$\$WP!!y\$\$0+)'\*66%)20!L2(60\$(70!&#\$\$\*' +!  
Y1)2(, (Z!\*+\$L01!)(!)20!9\*60+)' +08\$!^\*%!(/!)20!F 0\$)!)2'\$!2(6', \*%L\*\$!70\*+)!)(!0+3(#1\*I 0!  
\$)1(+!/\*7'6%!)0\$!' +!(1, 01!)(!, 0310\*\$0!)20!\*N%\$7\*6!&#\$\$\*' +!, '<(130!1\*)0!\* +, !'+310\*\$0!)20!  
\$)\*I +\*)'+I!&#\$\$\*' +!N'1)2!1\*)0!/(1!)20!I ((, !(/!)20!+\*)' (+P!!>20!/\*<(1\*N60!36'7\*)0!310\*)0, !N%!  
)20!I (<01+70+)!/(1!)20!32#1328\$!\*3)'(+!H1(7H)0, !''\*)1'\*132!: '1'66!)(!\$)\*0!, #1'+I!''#)' +8\$!  
BCDD!0603)'(+!3\*7H\*'I +!)2\*)!'#)' +!'\$!\*!Q7'1\*360!/1(7!| (, R!\*+, !)2\*)!20!2\*, !Q103)!'!0, !)20!  
31((40, !H\*)2!(/!2'\$)(1%PRD@!!!  
  
! "#\$\$%&'()8\$!\*HH0\*6!)(!)20!9'11'+!?'\*1%!'\$!\*+\*)0)7H)!(!32\*660+!0!)20!H6\*)'#, 0!)2\*)!  
''#)' +!'\$!/\*<(10, !N%| (, !)(!1#60!(<01!&#\$\$\*'P!-+!)20'1!H1\*%01!)20%!' +\$'\$!)2\*)!)1#6%! 0<(#)!  
N06'0<01\$!+00, !+ ()!N03(70!3(7H6\*30+)!



\*33#\$0, !N%[(#1+\*6\$)\$A!)20!w06\$'+4!|1(#H!U\*!H1(7'+0+)!&#\$\$'+!2#7\*+!1'12)\$!  
(1I\*+';\*)'(+W!#+, A!(/!3(#1\$0A!''#\$\$!&' )A!(/!L(14'+!1!L')2!)20!: | \PRDX!!>2'\$!: | \!3(++03)'(+A!  
(33#11'+!1!\*)!\$#32!\*!2'12!60<06!(/!)20!J2#1328\$!\* , 7'+'\$)1\*)'(+A!)1(+!6%, '\$310, ')!)20!'7\*!0!  
(/!H'0)%!H1([03]0, !N%)20!"\*)1'\*132%!\*+, !\$007\$!)(!, '103!)20!\$(+!8\$!\*+)'H\*)2%!(!)20!J2#132!  
\*\$!\*+!'+'\$)')#)'(+A!\*+, !+(!)!)20!H\*1'\$2'(+01\$A!70+)'(+0, !+!)20!+0Z)!6'+0P!!>20!H\*1'\$2'(+01\$!  
\*10!H(1)1\*%0, !\*\$!\$#N\$01<'0+)A#+, 01!)20!' +/6#0+30!(/!)20!H(L01/#6!H1'0\$)!UL')2!2'\$!H(L01/#6!  
3(++03)'(+W!L2('!'\$!\*+!\*3)(1!\*+, !+(!)!)NO!1#\$)0, P!! \$!/100, (7!'\$!, 0H'3)0, !\*\$!\$\*310, A!  
2\*<' +!IQI (+0!)!20\* <0+R!'+!)20!+0Z)!6'+0A!)!'\$!'7H6'0, !2\*)!)20!10H10\$\$'(+!(/!2(7(\$0Z#\*6')%!  
'+!&#\$\$\*!U\*!2(GN#))'+! '\$\$#0!/(1!\$(70!707N01\$!(/!)20!\*+)'G"#)+'!(HH('\$)'(+W!'\$!' +/#6A!\*+, !  
)2\*)!)20!"#)+'+\*, 7'+'\$)1\*)'(+!2\*\$!, 0/'0, !| (, 8\$!L'\$20\$P!!!

! >20!6'+0!NO)L00+!)20!\$03#6\*1!7#+\*3'H\*6!\*, 7'+'\$)1\*)'(+!\*+, !)20!106'I'(#\$!  
\*, 7'+'\$)1\*)'(+!'\$!/#1)20!N6#110, !L')2!)20!+0Z)!6'+0!\*N(#)!"#)+'A!L')2!2'\$!(L+!H10\$)'I'(#\$!  
: | \!N\*34I1(#+, A!NO'+!1!)20!32'0!IQ\$\*'+)R!(/!)20!J2#132P!!>20!\*\$\$01)'(+!(/!'!\$0H\*1\*)'(+!(/!  
32#132!\*+, !\$\*)0!'\$!L2(66%!7(340, !2010A!\*\$!)20!6%1'3\$!, 0\$31'NO!2(L!)20!H(6'30!\*110\$)!  
H1()0\$)01\$!(1!' +\$#6)' +!!)20!20\*, !(/!)20!"\*)1'\*132%A!: '1'66!-A!)20!10N%!H1()03)' +!!)20!7%)2!(/  
H'0)%!\*\$\$(3'\*0, !L')2!2'7P!! !3(7H\*1'\$(+!3\*+!NO!, 1\*L+!2010!)(!\*!301)\*'+!=(<'0)!H1\*3)'30!(/  
7%)2(6(I';'+!IJ(77#+'\$)!H#N6'3!/'!#10\$A!\*!H1\*3)'30!)2\*)!'\$!)20!\$#N[03]!(/!)1\*<0\$)!'+!)20!  
=(!)\$. 1!)!1\*, ')'+PD\*!!>20!1\*<0\$)!'+!)2'\$!3\*\$0A!2(L0<01A!'\$!\*67(\$)!\*\$!7#32!)20!10\$#6)!(/  
\$6(HH'+0\$\$!(+!)20!H\*1)!(/!)20!"\*)1'\*132%!\*\$!)!'\$!)20!10\$#6)!(/!)20!0//(1)\$!(/!"#\$\$!&' )!\*+, !  
)20'1!\$%7H\*)2'; 01\$P!!-+!BCDBA!7(+2\$!\*/01!"#\$\$!&' )8\$!\*110\$)A!\*!H2() (11\*H2!(/!"\*)1'\*132!

: '1'66!/0\*)#10, !(+!)20!(//'3'\*6!LON\$')0!(/!)20!32#132!H1(7H)0, !\*+!(#)31%!'+!)20!H#N6'3!  
\$H2010M\*\$!')!L\*\$!, '\$3(<010,!)2\*)!)20!"\*)1'\*132!L\*\$!L0\*1'+I!\*!'ECACCC!\10#I#0)!  
)'70H'030P<sup>D3</sup>!!y<0+!7(10!\$3\*+, \*6(#\$!L\*\$!)20!\*))07H)!N%!20!LON\$')08\$!0, ')(1\$!)(!, 060)0!)20!  
)'7

H10\$, 0+)'\*6!, 03100W!) (!' 7H(1)!6#Z#1%!3\*1\$!U\*\$!L066!\*\$!) (N\*33(W!, #)%

J\*)20, 1\*6!(/J21'\$!)20!<\*' (1#32 (\$0+!\*\$!)20!<0+#0!/(1!)2'\$!\$(+I8\$!H01/(17 \*+30#L \*\$!70\*+ )!  
)(!\* , , !)(!)20!+#\*+30!\*+, !\$%7N(6'3!70\*+'+!!(/!)20!\*3)!L2'60!\$'7#6)\*+0(#\$6!\*3)' +I!\*\$!\*+!  
\*7H6/'01!/(1!)20!70\$\$\*I0!)(!0\*32!)20!10\$)!(/!&#\$\$'\*!+ , !)20!L(16, P!y<01!\$'+30!)20!(1'I'+\*6!  
3\*)20, 1\*6!L\*\$!N#'#)!\*\$!\*+\*)' (+\*6!7 (+#70+)!) (!&#\$\$'\*8\$!<'3)(1%!' +!)20!"\*)1' ()'3!F \*1!(/!D•DB!  
\*I\*\*+\$!)20!'+<\*\$' (+!(/!T\*H(60(+8\$!/(130\$#)20!<\*1' (#\$!\$)1#3)#10\$!)2\*)!2\*<0!(33#H'0, !)20!  
\$H\*30!\*)!9(642(+4\*!(+!)20!N\*+4!(/!)20!?' (\$3(L!&'<01!2\*<0!10H10\$0+)0, !'+!)#1+)20!\$\*)08\$!  
+\*)' (+\*6'\$)!10\*, '+I!(/!Y1)2(, (Z%#)20!\$\*)08\$!\*)07H)!\*+, !/\*'6#10!)(!10H6\*30!Y1)2(, (Z%!L')2!  
=>)\*6+'\$)!7\*)01\*\*6'\$)!\$%7N(6'\$7#\*+, !#6)'7\*)06%!\*!10)#1+)!(!)20!+\*)' (+\*6'\$)!10\*, '+I!(/!  
Y1)2(, (Z%!L')2!7(10!)2\*+!\*!2'+)!(/!+0LG&#\$\$'\*+!/6\*\*1P!

>20!H#1H(\$0!(/!)20!(1'I'+\*6!3\*)20, 1\*6!\*\$!\*!7 (+#70+)!)(!)20!, 0/0\*)!(/!T\*H(60(+!  
'+3(1H(1\*)0, !)20!N06'0!)2\*)!)20!"\*)1' ()'3!F \*1!L\*\$!\*!, '<'+06%!' +/6#0+30, !\$)1#I I60P!QM(1!)20!  
, 00H6%106'I' (#\$!7\*[(1')%!(/!)20!3(#+)1%#)20!'+<\*\$' (+!L\*\$!| (, 8\$!H#++'\$270+)!/(1!"0)01!)20!  
|10\*)8\$!H(6'3%!(/!L0\$)01+'; \*)' (+!' +!)20!0'I2)00+)2!30+)#1%#\*+, !/(1!)20!3(+ \$00#0+)!N0)1\*\*%6!  
(/!+\*)' (+\*6!<\*6#0\$!31%)\$)\*66'; 0, !'+!Y1)2(, (Z%P!. 33(1, '+I6%#)20!\$H03)\*3#6\*1!<'3)(1%!' +!)20!L\*1!  
\*6\$(!L\*\$!6\*1I06%1030'<0, !\*\$!, '<'+0!\$\*6<\*)' (+P!-+!\$2(1)!)20!<'3)(1!L\*\$!\*\$\$ (3\*)0, !60\$\$!L')2!  
)20!\$\*)0!)2\*+!L')2!)20!H0(H60!)207\$06<0\$!\*+, !)20'1!106'I' (+PRBB!! !H\*1\*6606!3\*+!NO!, 1\*L+!  
NO)L00+!)20!N\*346\*\$2!\*I\*\*'+\$!)20!106'I' (#\$!10/(17\$!(/!"0)01!)20!|10\*)!\*+, !301)\*\*'+!  
3(+ )07H(1\*1%!10\$H(+ \$0\$!)(!)20!(+I ('+I!' +/6#Z!(/!L0\$)01+!', 0\*\$!\*+, !3#6)#10!' +) (!&#\$\$'\*#!  
L2'32!\$H'40, !\$2\*1H6%!(/66(L'+I!)20!3(66\*H\$0!(/!J(77#+'\$7P!-+, 00, #!"\*)1\*132!: '1'66!0<(40, !  
)20!+\*)' (+\*6!707(1%!(/!)20!/'I2)!\*I\*\*'+\$!)20!M10+32!'+<\*\$' (+!/(66(L'+I!"#\$%&' )8\$!\*3)!'+!  
)20!3\*)20, 1\*6#)\$\*)'+I!)2\*)!Q)2(\$0!L2(!L(#6, !'+<')0!#\*\$!66!)(!7(34!(#1!\$21'+0\$#!10[03]!(#1!

BB!^7')1!<=, (1(<#QT\*)' (+\*6!?' (+#70+)\*6'; \*)' (+!\*+, !)20!" (6)'3\$!(/!<3\*605!>20!&3(. 2(3)0. . /F 1. 11Tf[(33#H'0, !!1T3(0)1\*6\$.



06070+)\$(/!(#1!+\*)'(+\*6')%PBRB@!>20!\*+3'0+)\*132')03)#1\*6!/0\*)#10\$H10\$0+)'!+!>(+8\$, 0\$I +!  
60+)!)207\$06<0\$I) (!2'I 26'I 2)' +I!&#\$\$'\*8\$!' 7H(1)\*+30!' +!)20!J21'\$)'\*+!L(16, !\*+, !3(7N'+'+I!  
106'I'(#\$!I 6(1/'3\*)'(+!L')2!+\*)'(+\*6'\$)I (\*6\$P!\%!H6\*3'+I!' 7H\*1)' +I!)20!&#\$\$'\*+!y 7H'10!L')2!  
)'60!(/!\$#330\$\$ (1!) (!)20!\%; \*+)' +0!y 7H'10M!)20!3\*)20, 1\*6!L \*\$!) (!\*3)!\*\$!\*\$'I +\*6!) (!)20!L(16, !

)2\*)^R^BX!. 7 (+I!)20!&#\$\$'\*\$+!H#N6'3M'+36#, '+I!, 0<(#)!Y1)2(, (Z!N06'0<01\$M!)20!103(+)\$1#3)'(+!  
(/!)20!3\*)20, 1\*6!L\*\$!\*6\$(!/1\*#I 2)!L')2!3(+1(<01\$%P!! | 0(I1\*H201!^ 7')1'!=', (1(<!L1')0\$5!

!Y+0!Y1)2(, (Z!H1'0\$)!3(+, #3)0, !\*+!#+ (/!3'\*6!(H'+'+!H(66!\*+, !L\*\$!\$#1H1'\$0, M!  
+(!)2\*)!, '//010+)!H0(H60!L010!\*I\*'+\$)!10\$(1\*)'(+M!N#)!2\*)!)20'1!\*1I#70+)\$!  
L010!N\*\$0, !(+!)20!\N6OM&#\$\$'\*\$+!2'\$)(1%M!\*+, !3#110+)!10\*6')'0\$5!)2\*)!)(!L\*\$)\$0!  
7'66'(+\$/!(!, (66\*1\$!'+'\*!3(#+)1%!L')2!7'66'(+\$/!(2(7060\$!\$!\*!\$'+])!2\*)!32#132!  
3(+)\$1#3)'(+!+!&#\$\$'\*\$!\*6L\*\$%\$!'\$!\*\$\$\$(3'\*), !L')2!3(11#H)'(+M!\*+, !2\*)!)20!  
"\*\*)1'\*1328\$!3#110+)!J\*)20, 1\*6!(/!yH'H2\*+%!'\$!\$07'G07H)%!0<0+!(+!'7H(1)\*+!)!  
2(6', \*%\$P!!>20!H1'0\$)!2'7\$06/!'\$!'!/\*<(1(/!)20!103(+)\$1#3)'(+M!N#)!+(!)\*!)2'\$!  
‡\ (6\$20<'4!H\*30P^B\*!

F ')2!J21'\$!)20!\*=\*<'(1!0Z2'N')'+I!\*!, (#N60!', 0+)'%!\*\$!

/1(7!\*+!0\*16'01!\$H(+)\*+0(#\$A'6601 \*6!



(+!\$#\$H'3'(+PRE-!M#1)2017(10M!. 6%(42'+\*8\$!6\*L%01!T'4(6\*!' (6(; (<!\*1I #0, !, #1'+I!)20!\*HH0\*6!  
)2\*)!)2010!L\*\$!' +\$#/'3'0+)!0<', 0+30!)(!\$#HH(1!)20!36\*'7!)2\*)!2'\$!36'0+)!L\*\$!' +, 00, !\*7(+I!  
)20!7\*\$40, !L(70+!H01/(17'+I!(+!)20!\$(60\*\$!(/!)20!3\*)20, 1\*6PE@!! 33(1, '+I!)(!H10\$\$!  
3(<01\*I0!/1(7!)20!20\*1'+I!'" (6(; (<!7\*, 0!\*!\$H0032!07H2\*\$'; '+I!)2\*)!)!0L\*\$!)20!  
' +<0\$)'I\*)' (+8\$!10\$H(+ \$'N'6')%!) (!H1 (<0!, 0)0+) '(+!L\*\$!+030\$\$\*1%!, #0!) (!(+0!(/!)20!/(66(L'+I5!  
)20!\$#\$H03)0, !H01\$ (+!7\*%' +)01/010!L')2!' +<0\$)'I\*)' (+M/600!/1(7![#\$)'30!(1!, 0\$)1(%!  
0<', 0+30AREX!31')01'\*!L2'32!20!\*1I #0, !, ', !+ ()!\*HH6%!) (!. 6%(42'+\*P!w(L0<01M!, #1'+I!)20!

\$#11(#+, '+I!)20!3\*\$OP!!-+!\* , , ') '(+!) (!1(#+, G)20G36(34!<', 0(!\$#1<0'66\*+30!(/!)20!L(70+!' +!  
[\*'6! = \*7#)\$0<'328\$!6\*L%01!9'(60))\*!9(642(<\*!3(7H6\*' +0, M)20!H(6'30!QH(\$)\$0, !\*66!(/!)20!I '16\$8!  
H01\$(+\*6!' +/(17\*)' (+!(+!)20!+0)P!!-)!\$!/(1!)2'\$!10\*\$ (+!)2\*)! = \*7#)\$0<'32!' +)'\*66%!2', !20!10\*6!  
+\*70!\*+, !3\*660, !20!\$06/!-1'+\*!z(4)0<\*PR<sup>VD</sup>!!>20!H#N6'3!1060\*\$0!(/!)20!+\*70\$!\*+, !\* , , 10\$\$0\$!(/!  
)20!'#\$%&!&' (!N\*+, !707N01\$!10\$#6)0, !'+!\$0<01\*6!)210\*)\$!NO'+I!7\*, 0!\*I\*'+\$!)!20'1!106\*)'<0\$M!  
'+36#, '+I!. 6%(42'+\*8\$!\$(+PVB!!!!

. \$!)20!H10G)1'\*6!H1(300, '+I \$!\*+, !0<0+)#\*6!



\*+, !)20!H10\$0+30!(/!\*!J21'\$!)106'3K \*!\$L \*)32!(/!)20!w(6%!>#+ '3!L(1+!, #1'+!!)20!" \*\$\$'(+K '\$!  
\*)0\$)0, !)(!N%!\*66!(/!)20!<'3)'7\$!'!+)20!' +, '3)70+)!, (3#70+)\$P!!!

>20!)0\$)'7 (+ '0\$!032 (A!2 (L0<01A!)20!H#N6'3!\$)\*'070+)!7\*, 0!, #1'+!!\*!?! (\$3(L!32#132!  
\$01<'30!N%!"\*)1'\*132!: '1'66!/(66(L'+!!\*!7 (+)2!(/!\$'60+30!(<01!)20!"#\$\$%!'&'!)!H01/(17\*+30P!  
w0!#\$0\$!)20!H6\*)/(17!(/!)20!\$01<'30!)(!<('30!2'\$!3(+, 07+\*)'(+!(/!)20!\*3)!+!/1(+)!(/!\*+!  
\*#, '0+30!(/!, 0<(#)!N06'0<01\$A!\$)\*'+!!)2\*)!&#\$\$\*!QL'66!2\*<0!+ (!/#)#10!'!/\$\*310, !\$21'+0\$!\*10!  
, 0\$031\*)0, A'!)2'\$!, 0\$031\*)' (+!'!\$00+!N%!\$(70!\*\$!<'1)#0M\*\$!\$(70!H1(H01!0ZH10\$\$'(+!(/!  
H(6')'3\*6!H1(0\$)A!\*\$!\$(70!\*HH1(H1'\*!)0!\*3)'(+!(1!2\*1760\$\$!3. 110'0. 1(!)-2(')0. 476526611Tf/F 1. 181Tf330.



! >21(#12(#!)20!, #1\*)'(+!(/!)20!)1'\*6!v#, 10!? \*1'+ \*!=%1(<\*!107 \*'+0, !106#3)\*+!)(!  
\*66(L!7#32!/1(7!)20!, 0/0+\$0!'!)017\$(/!32\*660+!'+'!)20!H6\*'+'//\$(1!3\*66'+!!)20'1!(L+!  
L')+0\$0\$!)(!)20!\$)\*+, !!(#1+\*6'\$)\$!H10\$0+!)\*)!)20!)1'\*6!L010!0#'34!)(H('+)!(!)#P!  
?'1'\*7!y6, 018\$!'7H10\$\$'(+!(/!)20!H1(300, '+!\$!\*\$!\$20!3(<010, !)20!)1'\*6!H(1)1\*%\$!\*+!#H2'66!  
N\*))60!/(1!)20!, 0/0+\$05!

| #\*1, \$!170, !L')2!\$#N7\*32'+0!#+\$!11\*NNO, ![(#1+\*6'\$)\$!\*+, !)210L!)207!  
(#)!(/!)20!1((7!\*)!L'66P!>20![#, 10!H01320, !'+!/1(+)!(/!\*!\$2\*NN%&#\$\$'\*+!/6\*I!  
10/#\$0, !)(!6((4!\*)!)20!, 0/0+\$0P!., +, !)20!H(6'30!, (IK \*!DCC6N!N6\*34!  
&())L0'601K+(!6(+!01!\$\*)!'!)20!3(1+01!\$20!2\*, !(33#H'0, !\$'+30!)20!\$)\*1)!(/!  
&#\$\$'\*8\$!)1'\*6!(/!)20!%0\*1!N#)!N\*140, !\*+, !/( \*70, !\*)!)20!7(#)2!\*\$!/\$20!L010!  
'+\$0\*132!(/!N6( (, , P. /)01!/'<0!, \*%\$8!\$'))'+!'+!)20!3\*!0!\$(70!, \*%\$!/(1!DC!  
2(#1\$!\*)!\*!)'70!)20!L(70+!\*HH0\*1!OZ2\*#\$)0, P!9'(60))\*!9(64(<\*!(+0!(/!)20'1!  
6\*L%01\$!\$\*' , !)20%!L010!NO'+!!) (1)#10, K, 0+'0, !/( (, !\*+, !\*, 00#\*)0!\$600HP-E!

. L\*10!(/!)20\$0!, 0)\*'6\$!NO'+!IH(#+30, !#H(+!N%[(#1+\*6'\$)\$!0\*I01!)(/00, !'+)(!)20!/10+; %!(/!

H1(\$03#)'(+!L2'60!\*)07H)' + ! ! ) (!' + /6#0+30!H#N6'3!(H' + '(+!\$#11(#+, '+!!)20!N\*+, P!!F ')2'+!  
&#\$\$\*!#)20!10H(1)\$!/1(7!7\*'+\$)10\*7!70, '\*!(#)60)\$!3(+!)1\*\$)0, !\$2\*1H6%!L')2!3(<01\*I0!/1(7!  
)20!N6(I(\$H2010!' +!)20!L\*40!(/!)20!H01/(17\*+30!#\*+, !)20!+\*)'(+\*6!10\$H(+!\$0!(/!&#\$\$\*'+\$!  
H1(<0, !)(!NO!6\*1!06%!\$2\*H0, !\*6(+!!)20!6'+0\$!(/!L2'32!+0L!\$(\$#130\$!)20%\$#N\$31'NO, !)(P!

-9!

. 33(1, '+!!)(!)20!z0<\*, \*!J0+)01!H(66!3(+, #3)0, !'+!v#6%!(/!BCDB!Q\*!7010!-!H0130+)!(/!  
10\$H(+, 0+)\$\_, \$\*', !)2\*)!)20!L(70+!\$2(#6, !NO!60)!(//!L')2(#)!H#+'\$270+)! (+6%!D~!H0130+)!  
\$#HH(1)0, !\*!['6!)017!(/!7(10!)2\*+!)L(!%0\*1\$P!?!(\$)!3\*660, !/(1!\*!6'!2)01!H#+'\$270+)!#\*+, !B}!  
H0130+)!\$\*', !)20!L(70+!\$2(#6, !NO!\$0+)0+30, !)(!3(77#+')%!!\$01<'30PR~@!. \$!L0!\$2\*66!\$00!)20!  
/\*3)(1\$!)2\*)!, 1(<0!H#N6'3!(H' + '(+!)20!3\*\$0!(/!)20!"#\$\$%!&'(!)1'\*6!' +!&#\$\$\*')1\*+\$30+, !\*+#!  
\*)07H)\$!(!\$0\*760\$\$6%!3(1106\*)0!(H' + '(+\$!\*+, !, 07(11\*H2'3!+(17\$P!!!

! >(!NO!' +!L')2!#"\*)1'\*132!: '1'66!\*)07H)0, !)(!10'+<'! (1\*)0!\*!3(77(+6%!206, !, 0/0+'\$<0!  
\$)\*+30!\*7(+! !&#\$\$\*'+!Y1)2(, (Z!NO6'0<01\$L')2!2'\$!H#N6'3!3(770+)\$(+!"#\$\$%!&'(!)8\$!  
H01/(17\*+30P!>2'\$!\$)\*+30!2\* '<' +! !H10<'(#\$6%!) \*40+!1(())L')2!Y1)2(, (Z!NO6'0<01\$!' +!)20!  
H(\$)G=(<'0)!01\*!#, '103)0, !2(L!7(\$)!32#132G! (' +! !&#\$\$\*'+\$!L(#6, !10\$H(+, !)(!)20!\*3)!'+!  
J21'\$!)20!=\$<'(1!J\*)20, 1\*6P!96\*, '7'1!"#)' +!2\* '<' +! ! (L0, !2'\$!100603)'(+!H1'7\*1'6%!)(!)20!  
3(+!\$01<\*)'<0!Y1)2(, (Z!NO6'0<01\$!#L(#6, !, 0/0+, !)20!\*110\$)!(/!)20!N\*+, #3(770+)'+! ! (+!)20!  
\*110\$)!(/!)20!N\*+, !)(!10H(1)01\$!' +!z(+, (+!)2\*)!Q)2010!\$!+()2'+! ! ! ((, !'+!)2'\$P!-!L(#6, +8)!  
10\*66%!6'40)!(!3(770+)!#N#)!-!)2'+4!'!)20! !16\$!L010!#60)8\$!\$\*%#!' +!-\$1\*06!#\*+, !'+\$#6)0, !

?#\$'7!2(6%!)0!L0!L(#6,+8)!0<0+!2\*<0!2\*,!)'70!(!,0)\*'+!)207P!T(+0)2060\$\$!-,(+8)!2'+4!  
)20%\$2(#6,!NO![#,!0,!)(!\$0<0106%/!(1!)2'\$P!\#)!)20!'+'6!,03'\$'+!10\$)\$!L')2!)20!3(#1)\$K-!  
2(H0!)20!3(#1)!L'66!,06<01!\*!3(1103)!L066G/(#+,0,!1#6'+!PR~X!!

"#)+'+8\$!\$\*)070+!)\*)07H)\$!(!\*HHO\*\$O!\*\$!7\*+%!!1(#H\$!\*\$!H(\$\$'N60P!w0!'1\$)!\$O)\$!)20!  
(//3'\*6!H1030,0+)!(/!3(+,07+'+!!)20!7(1\*6!\*+,!106'I'(#\$!\$6'I2)\$!(/!)20!H01/(17\*+30!L2'60!  
+0!603)+'+!)(!70+)'(+!)20!\*+)'G"#)+'+!63(11#H)'(+!70\$\$\*!0!(/!)20!6%1'3\$P!w0!)20+!(H'+0\$!  
)2\*)!)20!N\*+,!\$2(#6,!+(!)1030'<0!)20!7\*Z'7#7!\$0+)0+30!\*<'0L!206,!N%)!20!7\*[(1')%!(/!  
H(660,!&#\$\$\*+\$\$!\*\$!\$00+!\*N(<0P!\%!3(+)!1\*\$)'+!&#\$\$\*8\$!106'I'(#\$!H(6'3'0\$!L')2!)2(\$O!(/!  
-\$1\*06!\*+,!)20!?',,60!y\*\$)\$!#"#)+'+\$#N)6%\$3(//\$!\*)!)20!<(3\*6!(#)31%!(1!"#\$\$%&'())8\$!/100,(7!  
\*\$01)+'+!)2\*)!\*!70\*\$#10,!0!100!(/!H#+'\$270+)!\*\$!\*!10\*\$(+\*N60!10\*3)'(+!)(!20!\*3)P!-+!  
Y3)(N01!BCDE



)1'\*(P!-+!\*!, (3#70+)\*1%!310\*)0, !)(!7\*14!)20!(33\*\$' (+(!/" #)' +8\$!'Z)'0)2!N'1)2, \*%#20!  
10')01\*)0\$!2'\$!H('\$)' (+!(+!)20!<01, '3)5!Q?%!/ '1\$)!10\*3)' (+!L\*\$!)2\*)!)20%!\$2 (#6, !\*\$4!N06'0<01\$!  
/(1!/(1! '<0+0\$\$!\*+, !)2\*)!L (#6, !2\*<0!N00+!)2\*)P!\#)!)20%!40H)!N#'6, '+! !)!#H! \*+, !\$(!)20!  
L2(60!3\*\$0!0+, 0, !'+!)20!3(#1)!\$6\*HH'+!!)207!L')2!)L(G%0\*1![\*'6!)017\$A!\$(!)2010!%(#!2\*<0!' )P!  
-!2\*<0!+()2'+! !)(!, (!L')2!)2'\$P!!>20%!L\*+)0, !)'\*+, !)20%!I (!)'PR~}!" #)' +!\*6\$(!#\$0, !)20!  
, (3#70+)\*1%!\*\$!\*+!(HH(1)#+' )%!(!3(770+)! (+!)20!?'42\*'6!: 2(, (14(<\$4%)1'\*6A!\$00+!N!  
7\*+%!' +!)20!&#\$\$\*+!(HH('\$)' (+!7 (<070+)!\*+, !)20!' +)01+\*') (+\*6!H10\$\$!) (!H\*'1!L')2!)20!  
"#\$%&!&' (!)1'\*6!Q)(\$%7N(6';0!)20!: 1076'+8\$!31\*34, (L+!(+!, '\$\$0+)PR@C!!>20!\$%7N(6'3!N(+, !

!

>20!, '\$10I \*1, !/(1!)20!\$H'1')!(/!)20!yJw&8\$!1#6'+I!L \*\$!\*+!\*\$\$01)'(+!N%)20!3(#1!)!2\*)!  
 , 0/0+, \*+)\$!L (#6, !NO!)10\*)0, !\*+, ![#, I 0, !(+)20!3(#1)8\$!)01 7 \$M\$0))'+I!)20!H1030, 0+)!)2\*)!  
 )20!&#\$\$\*+![#\$)'30!\$\$)0 7!'!#+'0#06%) '\*6(10, !)(!)20!+00, \$!(/!)20!3(#+)1%!\*+, !2(#6, !+ )!  
 \*N', 0!N%)20!1#60\$!L2'32!(#)\$', 0!0+)')'0\$\*)'0 7H!)('7H(\$0!#H(+!)?!? \*+%!&#\$\$\*+!\$!L (#6, !  
 10\$H(+, !)(!)20!"#\$\$!&' )!)1'\*6!L')2!\$'7'6\*1!3(+0 7H)!/(1!6'N01\*6!F 0\$)01+!\$0+\$'N'6')'0\$M  
 <'0L'+I!)20!\*33#\$\$\*)'(+\$/!(2# 7 \*+!I'2)\$!\*N#\$0!\*\$!'7H6%!\*!7 \*\$4'+I!, 0<'30!/(1!\*!10\$#11 0+30!  
 (/J(6, !F \*1!H1(H\*I \*+, \*)\*3)'3\$P!

! Y+!(+0!0Z)10 70!(/!)20!\$H03)1# 7M\$( 70!&#\$\$\*+!\$!#N\$31'NO!)(!)20!NO6'0/M<(3\*66!  
 0\$H(#\$0, !\*+, !, '\$\$0 7'+\*)0, !N%)20!J\*+\*, '\*+!\*+)'G!6(N\*6'; \*)'(+!+(+GH1(/!)J0+)10!/(1!  
 &0\$0\*132!(+!|6(N\*6'; \*)'(+M)2\*)!"#\$\$!&' )('\$!, '103)6%N\*340, !N%)20!x=!)\*)0!^0H\*1) 70+)!  
 \*+, !L \*\$!#\$0, !\*\$!\*!)(6!)(!#+, 01 7'+0!)20!7 (1\*6!\*+, !H(6)'3\*6!/(#+, \*)'(+\$/!(!&#\$\$\*!) (IH\* <0!  
 )20!L \*%!(1!/(10'I +!03(+ ( 7'3!' +)010\$)\$P!-+!\*+\*1)'360!(+!)\$!LON\$')0M)20!(11 \*+'; \*)'(+!\$\*)0\$!  
 )2\*)!

)20!F 0\$)M\*+, !7 (10!\$H03'/'3\*66%M)20!3(1H(1\*)0G/' +\*+3'01!' +)010\$)\$!(/!F \*66!  
 =)100)!\*+, !z(+, (+M!\$00!&#\$\$\*8\$!3#110+)!I (<01+ 70+)!\*\$!\*!N\*11'01!)(!+ )!(+6%!  
 )20!10)#1+!) (1)20!#+ 7')'I \*)0, !H6#+, 01'+I!(/!)20!&#\$\$\*+!H0(H60!)20%12\*, !  
 0+[(%0, !'+!)20!D} }C\$!N#)!\*!32034!\*+, !N\*6\*+30!' +2'N')'+I!)20'1!20!0 7 (+'3!  
 \* 7N')'(+\$/!I 6(N\*66%P!>20!F 0\$)!2\*\$!H1(HH0, !#H!L')2!7 (+0%!\*+, !H(6)'3\*6!  
 \$#HH(1!)!20!(HH('\$)'(+!7 (<0 70+)!1( 7!L2'32!#" #\$\$!&' )8!2\*\$!0 7 \*+\*)0, P<sup>8</sup>B!!

>2\*\$!NO6'0/!)#1+\$!"#\$\$!&' )!' +) (!\*!/(10'I +!\* I 0+)!' +!7 #32!)20!\$\* 70!L \*%!)2\*)!\*!N'66!H\*\$ \$0, !  
 )21(# I 2!)20!^# 7 \*!' +!v#6%MBCDB!/(130, !T | Y\$!L (14'+I!' +!&#\$\$\*!) (1, 036\*10!)20 7 \$06<0\$!

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<sup>8</sup>B!> (+%!J\*1)\*6#33!Q&#\$\$\*8\$!#" #\$\$!&' )8!#=#+)=#HH(1)0, !N%!x=!)\*)0!^0H\*1) 70+)R!J95789(VH6H84<-.(. #I #!)  
 D•MBCDBP!2)H5{ {L L L P! 6(N\*610\$0\*132P3\*{1#\$\$\*G\$GH#\$\$G1' )G\$)#+G\$#HH(1)0, GN%G#\$G\$\*)OG  
 , 0H\*1) 70+){EBE}~!

!/(10'I +!\*I0+)\$M@E!, 1\*L'+I!\*)0+) '(+!) (!\*!6\*1I01!7 (<070+)!) (!(#)!H0(H60\$8!/(10'I +!  
3(++03)'(+!'+!)20!L\*40!(/!)20!, '<'\$'<0!&#\$\$\*'+!H10\$', 0+)'\*6!0603)'(+P!>20!00#\*)'(+!(/  
(HH('\$)'(+!)(! (<01+70+)!H(6'3'0\$L')2!\$0, ') '(+!(1!'77(1\*6')%!'\$!\*/0\*)#10!(/!&#\$\$\*'+!  
H(6)'3\*6!, '\$3(#1\$0!)2\*)!2\*\$!, (+0!7#32!)(!2'+, 01!)20!N#1I0(+'+I!(/!\*!3'<'6!\$(3'0)%!/100!/1(7!  
)20!)210\*)'(/!'7H1'\$(+70+)P!!. +()201!N06'0/#!1\*<')\*'+I!/\*1!'+)(!)20!10\*67!(/!3(+H'1\*3!  
)20(1%#!\$!, 07(+)\$1\*)0, !N%!\*!)60\*\$!)L(!H0(H60!'<(6<0, !'+!)20!)1\*65!)20!6\*L%01\$!/(1!  
96\*, '7'1!" ()\*+84'+#!(+0!(/!)20!' +[#10, !H\*1)'0\$L2(!L(140, !\*)!J21'\$!)20!\*=\*<'(1\*\$!\*!\$03#1')%!  
I#\*1, P!^#1'+I!\*'+!)01<'0L#!)20!6\*L%01\$!

! -)!\$A!)2010/(10A+(!\$#1H1'\$0!)2\*)!)20!3\*66!/(1!7\*Z'7#7!H#+'\$270+)!/(1!"#\$\$%&'(!L\*\$!  
)\*40+!#H!N%!\*+\*)'(+\*6'\$)!\*+, !106'I'(#\$(1! \*+'; \*)'(+!'+!&#\$\$'\*A'+36#, '+I!)L(!<01%!, '//010+)!  
I1(#H\$5!<'I'6\*+)0!Y1)2(, (Z!QJ21'\$)\*+!3#6)#10!L \*11'(1\$AR@-!L2(!NO! \*+!H\*)1(66'+I!)20!\$)100)\$!  
'+!)20!L \*40!(/!)20!"#\$\$%&'(!)1'\*6A!\*+, !)20!: 1076'+GN\*340, !S(#)2!^07(31\*)'3!. +)'GM\*\$



/'1\$)!\*!H6\*%!\*N(#!)20!"#\$\$%&'(!)1'\*6!\*!)20!?\$(\$3(L!>0\*)1P,(3M\*+,!)20+!)20!\$(70L2\*)!  
0330+)1'3!, '103)(!(/!)20!|G=H(!)?#\$0#7!(/!y1()!3!. 1)M. 604\$\*+, 1!^(+\$4(%AQ\*!/(1701!  
H(6)'3'\*+!L2(!#\*++(#+30,!)20!310\*)'(+!(/!2'\$!"\*1)!(/!z(<08,,!#N%!2(6,'+!#!, 07(+)\$1\*)'(+!  
'+!\$#HH(1)!(/!"#\$\$%&'(!)'+!L2'32!H\*1)!%\*3)'<'\$)\$!\$L\*7!'!+\*!/(#+)\*'+!\*)!20!|x?!"\$2(HH'+!!  
30+)01!+0Z)!(!&0, !=0#\*108R^BP!!&-. !T(<(\$)'M\*!&#\$\$'\*+!\$\*)0G1#+!+0L\$!(#)60)M', 0+)'/'0,!)20!  
\$)\*0!)060<'\$(+!310L!)2\*)!\*33(7H\*+'0,!)20!\*3)'<'\$)\$!\*\$!T>9AQ\*!H1(GI(<01+70+)!32\*++06!  
4+(L+!/(!')\$!\$3\*)2'+!H1(H\*I\*+, \*!\*)\*)\*34\$!(+!)20!: 1076'+8\$!0+07'0\$M'+36#, '+!!(HH('\$)'(+!



z(1, !2\*\$!3(77\*+, 0, !#\$!)20%!4+(L!L2\*)!7013%!#\$!)20%!4+(L!L2\*)!  
/(11'<0+0\$\$!\*+, !zY9y!\*10^!>20%!4+(L!L2\*)!20!0+, !L2\*)!\$!\* , 00#\*)OPX}!

\\*1\*+(<L2(!\*\$4\$!'+!)20!60))01!)(!NO!, 0/1(340, !'+!H1(0\$)!(/!)20!31'7'+\*6!3\*\$0!\*I\*\*'+\$)!"#\$\$%!  
&'()M'\$!H\*1)!(/!\*!\$7\*66!N#)!+()30\*N60!7(<070+)!L2'32!\$(70!'!&#\$\$'\*!2\*<0!3(7H\*10, !)(!  
)20!"1(0\$)\*+)!&0/(17\*)'(+P!>20!7(<070+)!'\$!32\*1\*3)01';0, !N%!1(L'+!!, '\$3(+0+)!'!+)20!  
Y1)2(, (Z!3(77#+'%)!L')2!)20!J2#1328\$!60\*, 01\$2'H!\*+, !\*, 7'+'\$)1\*)'(+M\*33(7H\*+'0, !N%!  
3\*66\$!/(!7(, 01+';\*)'(+!\*+, !\*!7(10!=31'H)#10GN\*\$0, !\*HH1(\*32)!(!106'I'(+P^C!-+!BCDDM^\*/)01!  
<0+)'+!!)20'1!1'0<'+30\$!L')2!)20!Y1)2(, (Z!J2#132M!)2100!H1'0\$)!\$!\$0!)!20!0Z\*7H60!/(!  
\\*1\*+(<!)(!6\*)01!/(66(L!N%!NO'+!IQ, '\$2(+ (1\*N6%! , '\$3\*110, R^D!'+!)20!3')%!(/!-; 20<\$4P!!='+30!  
)20+M!0+3(#1\*10, !N%)20!, 0<06(H70+)!\$(/!)20!"#\$\$%&'()!)1\*6M+#701(#\$!N6(1!01\$!  
\$#HH(1)'<0!(/!10/(17\$!2\*<0!0+)010, !)20!/1\*%!(/!106'I'(#\$, '\$3(#1\$0M!3(+)'N#)'!+)!)20!  
H0130H)'(+!)2\*)!\*!\$32'\$7!'\$, 0<06(H'+!L')2'+!)20!J2#132P!

>(!\*!6\*110!, 0!100M!)20!(H'+'+\$!(/!)20!&#\$\$\*+!H#N6'3!3(110\$H(+, !L')2!)20!+0L\$!  
\$(#130\$!)20%)1#\$)!\*+, !#\$N\$31'NO!) (P!M1(7!)20!J21'\$!)20!='<'(1!H01/(17\*+30!(+L\*1, M!  
, '\$3(#1\$0!\$#11(#+, '+!!"#\$\$%&'()!L\*\$!32\*1\*3)01';0, !N%!<'\$#\*6!70\*+\$!(/!, 0(6(1'3\*6!  
)1\*+\$7'\$\$(+P!M'670, !1\*66'0\$M!)20!#\$0!(/!<'\$#\*6!%7N(6\$!\$#32!\*\$!)20!N\*6\*36\*<\*!'+, !)20!31(\$\$M!  
\*+, !H2( (11\*H2\$!(/!36\*\$20\$!NO)L00+!H1(0\$)01\$!\*+, !)20!Y?. T!1'()!H(6'30!3(#6, !0#'346%!NO!  
1060\*\$0, !)(!)20!H10\$!L')2!6')60!\*33(7H\*+'%'+!!\*+\*6%\$!\$P!-+!H(\$)G=(<'0)!&#\$\$\*!2(L0<01M\*!  
\$)\*14!, '\$)' +3)'(+!0Z'\$)!NO)L00+!)060<'\$0, !+0L\$!\*+, !)20!3(+)' +#\*66%, 0<06(H'+!  
N6(I(\$H2010P!>20!+#+30\$!(/!)2'\$!' , '(\$%+31\*)'3!106\*)'(+2'H!\*10!0ZH(#+, 0, !N%!=\*1\*2!Y\*)0\$!  
\*+, !|'66'\*+!?'3J(17\*345!

---

X)! = 0110%\\*1\*+(<M!Q•c•s' cgp!



%>20!&#\$\$' \* + / (3# \$! 1 (#H!H\*1)'3'H\*+) \$\$!L010!\*L\*10!)2\*)!7#32!(/!)20!+0L\$!  
10H(1)' + I!(+!\$)\*0!)060<'\$(+!'!\$0603)'<0M#+N\*6\*+30,!(1!N\*\$0, M!N#)!7\*+%( /!  
)207!<'0L0,!)2\*)!\*\$!\*HH1(H1'\*)OPI!w\* <' + I!6' <0,!)21(#I2!)20!03(+ (7'3!\*+,!  
H(6)'3\*6!32\*(\$!(/!)20!D})C\$A!)20%!H6\*30, !6')60!<\*6#0!(+!L', 0G1\*+I'+I!H(6)'3\*6!  
, '\$3#\$\$'(+PI!>20%!<'0L0, !H#N6'3!, ON\*)O!\*\$(/!)0+!60\*, '+I!)(!H((1!H(6'3%!\*+,!  
03(+ (7'3!32\*(\$PI!\*+%( /!)20!10\$H(+, 0+)\$!7\*, 0!360\*1!)2\*)!)20%!N06'0<0,!)20!  
1(60!(/!\$\*)0G1#+!)060<'\$(+!L\*\$!)(!H1(<', 0!30+)1\*6!\*#)2(1)'%!\*+,!(1, 01!' +!  
)1(#N60,!)7'0\$PI!>2'\$!OZH6\*'+\$!L2\*)!7'I2)!\$007!\*!H\*1\*, (Z5!&#\$\$' \* +!3)'; 0+\$!  
\*HH0\*1!)(!4+(L!)2\*)!\$\*)0G1#+!)060<'\$(+!0\$0+)'\*66%!/#+3)'(+!\*\$!\*!  
H1(H\*I\*+, \*!7\*32'+0!(1!)20!\*#)2(1)'0\$M!N#)!)20%!(/!)0+!\*HH1(<0!(/!)2'\$!\*\$!  
)20%!<\*6#0!(1, 01!( <01!, 07 (31\*3%P\*B!

>2'\$!H\*1\*, (Z!7\*+'/0\$)0,!)\$06/!' +!7#32!(/!)20!\$\*)0G)060<'\$(+!\*#, '0+30!\* , (H)' + I!)20!

3(+ \$01<\*)' <0!<'0L!(/!)20!"#\$\$%&' (!)!1'\*6M'+!6'+0!L')2!)20!N06'0/\$!(/!)20!?' (\$3(L!

"\*)1'\*132\*)0M!L2'60!/(66(L01\$!(/!' +, 0H0+, 0+)(1!\$(3'\*6!70, '\*!/00, \$M!#32!\*\$!z'<0v(#1+\*6!

N6(I\$!\*+, !94(+)\*4)0M!2\*, !\*!2'I201!)0+, 0+3%!(!\* , (H)!\*!7 (10!6'N01\*6!\$)\*+30PI!F')2!)060<'\$(+!

\$H(\$!\$)!\*!H107'#7!/(1!(HH('\$)'(+!H01\$H03)'<0\$M!\$#HH(1)01\$!(/!"#\$\$%&' (!)M!L20)201!(1!+ (!

)20%!N06(+I0, !)(!20!(HH('\$)'(+M!/(#+, !)207\$06<0\$!3(+/' +0, !)(!20!-+)01+0)!'+!)20'1!\$0\*132!

/(1!6'40G7'+, 0, !(H'+'+\$P

\$'7H60!)1\*+\$H\*10+3%!\*+, !/100!0603)'(+!\$!L'66!3#10!\*66!(/!&#\$\$\*8\$!'66\$P!!>21(#!2!  
, 07(+)\$1\*)'(+!\$!\*+, !\*3)\$!NO+)'(+!\$2(34'+!!)20!H#N6'3!(#)!(/!3(7H6\*30+3%A!)20%!H1()0\$)!  
\*!\*'+\$)!)0)20!, '\$31'7'+\*)'(+!(/!\$0Z#\*6!7'+(1)!'0\$!\*+, !)20!\*+)'G! \*%!6\*L!0Z36#, '+!!, '\$H6\*%\$!(/!  
2(7(\$0Z#\*6')%)2\*)!3(#6, !#\$HH(\$0, 6%!'!/#0+30!32'6, 10+]!)20!I 0+01\*6!, %\$/#+3)'(+!(/!)20!  
0, #3\*)'(+!\$\*+, !20\*6)23\*10!%\$)07\$]!\*+, !)20!I 1\*, #\*6!\$03#6\*1';\*)'(+!(/!)20!J2#132!)21(#!2!')\$!  
N#\$'+0\$\$6'40!N02\* <'(1PR\*V!!>20'1!', 0(6(1%!'\$!N1(\*, !\*+, !3(7H60ZM!N#)!\*6\$(!#+%'06, '+!'+!)20!  
/\*30!(/!H#N6'3!31)'3'\$7!/1(7!N()2!)20!&'!2)!\*+, !)20!z0/)P!!-)!'\$!N03\*#\$0!(/!)20'1!  
#+3(7H1(7'\$'+!A#+6H(H#6'\$)!\*!0+, \*A!\*+, !)20'1!L'66'+!+0\$\$!)(!#\$N<01)!6(+!G0\$)\*N6'\$20, !  
3#6)#1\*6!+(17\$A!)2\*)!(HH('\$)'(+!60\*, 01\$!6'40!. 60Z0%!T\* <\*6+%!2\* <0!, '\$)\*+30, !)207\$06<0\$!  
/1(7!'#\$\$\$!&'()P!!-+!2'\$!10\*3)'(+!)(!)20!J21'\$!)20!\*= <'(1!H01/(17\*+30A!20!\$\*)0\$5!0-\$007!)(!  
2\* <0!7'\$0\$, !)20!'+'\*6!I (\*6!(/!)20!L2(60!H1()0\$)!\*3)'(+P!!=(70!H10/01!3\*66'+!!)!\*\$!H'030!(/\*1)P!!  
-8, !1\*)201!32\*1\*3)01'; 0!)20'1!H01/(17\*+30!\*\$!\*!7'\$)\$OHR!L2'60!Y60I!: (;6(<\$4%A!\*+())201!

\*33(#+)\*N'6')%!L066!\*N(<0!\*#)2(1')\*1'+ '\$7!(+!)20!6'\$)!(/!)20!3(#+)1%8\$!N'! I 0\$)!  
H1(N607\$P!!. !^0307N01!BCDC!z0<\*, \*!H(66!/(#+,!)2\*)!7(10!)2\*+!2\*6!(/!  
&#\$\$\*+!\$H10/01!6\*L!\*+, !(1, 01!0<0+!'!')!3(70\$!\*!)20!0ZH0+\$0!(/!\$(70!  
, 07(31\*)'3!1'!2)\$P\*@!

>20!(HH('\$)')(+8\$!60\*, 01\$2'HA!'!')\$!0//(\$!)(!I1(L!)20!7(<070+)8\$!H(6)'3\*6!' +/6#0+30A!(H)0, !  
/(1!\*+!\*66'+36#\$'<0!\*HH1(\*32!L')2!)20!(\*6!(/!(\$!)01'+!1\*!<'N1\*+)'!3'<'6!\$(3'0)%!)2\*)!3(#6, !  
H#\$2!/(1!\*33(#+)\*N'6')%!\*+,!)1\*+H\*10+3%!'+!)20!I(<01+70+)!)(!60+,!7(10!H(L01!)(!)20!  
<()'+!H#N6'3P!>21(#I2!0+3(7H\*\$'+!I!0<01%N(, %!/1(7!6'N01\*6\$)!(!1'!2)'\$)\$A!+\*)'(+\*6'\$)\$)!(  
\(\$20<'4\$A!\*+, !0+<'1(+70+)\*6!\*3)'<'\$)\$)!(!\*+\*132'\$)\$A!)20!7(<070+)!\$(#I2!)!(IN\*6'+30!')\$!  
3(7H('\$)')(+!\*+,!\*32'0<0!\*!, '<01\$0!/(66(L'+!I!/(1!\*!106\*)'<06%!7(, 01\*)0!H6\*)/(17P!>20!  
7(, 01\*)0!+\*)#10!(/!)20!7(<070+)!L(#6, !H1(<0!)(!NO!\*!)20!1(())!(\$!)\$#330\$A!\*\$!Q)20!7(\$)!  
, <01\$\*1'\*6!3'<'6!\$(3'0)%!!1(#H\$!)0+,!)(!NO!)20!60\*\$)\$#330\$\$/#6P!>2'\$!\$!+()![\$\$)!\*!10\$#6)!(/!  
\$)\*0!10H10\$\$'+!IN#)!NO3\*\$#\$0!N1(\*, !\*+)'I(<01+70+)!H1()0\$)\$!0+, !#H!\*6'0+\*)'+!I!(<01+70+)!  
6(%\*6'\$)\$A!L2(!107\*'+'!\$)1(+!I!7\*[(1')%!(/!)20!H(H#6\*)'(+PR\*!>20!3((H01\*)'(+!(/!)20\$0!

)20!' +00#')'0\$!' +!)20!&#\$\$ '\* +![#)\$'30!\$%)07!)2\*)!H6\*I #0, !(HH('\$)' (+!60\*, 01\$!\*+, !  
H\*1)'3'H\*+) \$!/1(7!)20!\$)\*1)!\*+, !\$20, !6'!2)!(+!)20!\$\*31/'30\$, 07\*+, 0, !(/!, '\$\$0+)01\$P!M07\*60!  
\*3)'<'\$)\$!0\$H03'\*66%!7()201\$!6'40!. 6%(42'+\*!\*+, !>(6(4(++'4(<\*!L010!(/)0+!)\*110)0, !'+!  
H\*1)'3#6\*16%!, '\$H'1')'+!L\*%\$!/(66(L'+!!)20'1!\*110\$)\$!(1!' +<0\$)'I\*)' (+\$!NO'+!!)210\*)0+0, !  
L')2!6('\$'+!#3#)\$ (, %!(/!)20'1!32'6, 10+!\*+, !2\*<' +!!)20'1!\$OZ!6'<0\$!H#N6'36%!\$31#)'+'; 0, !\*+, !  
3(+, 07+0, P!?!\*1'\*!\\*1(+(<\*!\*+!\*3)'<0!(HH('\$)' (+!/'! #10!\*!)20!)'70!(/!)20!' #\$\$%!&' (!)1'\*6!

>\*40+!\*\$!\*L2(60M)20\$0!)\*3)'3\$L'06, 0, !N%!20!! (<01+ 70+)\*! \*'+\$)/07 \*60!(HH(+0+)\$!\$0+, !  
\*!70\$\$\*10!)2\*)!)20!\*#)2(1)'0\$!\*10!7 (10!)2\*+!L'66'+I!)(!OZH6('!)!1\*, ')'+\*6!I0+, 01!1(60\$!'!+!  
H10\$\$#1'+I!)20!L(70+!)(!\*N\*+, (+!)20'1!3\*#\$0\$M'L')2!H01\$(+\*6!\$2\*7'+I!\$01<'!+I!)20!, #\*6!  
H#1H(\$0!(/!) \*1+'\$2'+I!)20!10H#)\*' (+!(/!)20!' +, '<', #\*6!'!+!)20!/\*30!(/!6\*1!06%!3(+ \$01<\*)'<0!  
\$31#)' +%!\*+, !107'+, '+I!()201!L(70+!(/!)20!3(+ \$00#0+30\$(/!(66(L'+I!\$#')P!!!

! >20!I (<01+ 70+)\*#)2(1)'0\$!L010!+ ()M2(L0<01M)20!(+6%!0+)'0\$!#1!'+I!3(+/(17')%!  
L')2!)1\*, ')'+\*6!I0+, 01!1(60\$P!! \$!)20!" #\$\$%!&'()!1'\*6!10<0\*60, !/#1)201!, 0)\*'6\$(/!)20'1!  
H6\*)/(17M/(3#\$!L\*\$!10+0L0, !(+!)20!(HH('\$)'(+!7 (<070+)8\$!'!+!)0+\$0M0<0+!<'(60+)!, '\$, \*'+!

)2'\$!, (#N)!+!\$\*%'+!!(/!)20!7 (<070+)8\$/#)#10!)2\*)!QL0!+00, !\$(70!7 (10!/#06!)(!6'!2!)!20!  
'10!N#)!''#\$\$%&'(!7\*%!2\*<0!2\*170,!)20!(HH('\$)'(+!N%!) \*4'+!L\*%!(70!(/!)\$!7(1\*6!2'!2!  
!1(#+, PR)E!!-)!L(#6, !\$(+!3(70!)(!6'!2!)!2\*)!\$(70!(/!''#\$\$%&'(!8\$!N'!1!0\$)!32\*7H'(+!L(#6, !  
NO!/(#+, !\*N1(\*, P!

9-!

-+!)20!L\*40!(/!)20!J21'\$!)!20!=\* <'(1!H01/(17\*+30M)20!(<01L2067'+!17\*[(1')%!(/!70, '\*!

\$)100)!H1()0\$)\$P!>20!H1(H0+\$')%!(/!F 0\$)01+01\$!) (!10\*3)!H(\$)'<06%!(!)20!N1\*+, G6'40!+\*)#10!(/!  
)20!"#\$\$%&'(!'7\*10!7(\$)!6'406%!3(+)'1'N#)0,!(!)20!H(H#6\*1')%!(/!)20!1(#HM\*\$!,',!)20'1!  
L', 06%!, '\$3#\$\$0,!!((, !6((4\$P!T\*, 0;2,\*!>(6(4(++'4(<\*M'+!\*+'+)01<'0L!L')2!Jw!L\*\$!0<0+!  
3(\*Z0,!'+)(!3(770+)'+!!(+!)20!1(60!(/!)20!N\*+, 8\$!NO\*#)%!'!+)20'1!H(H#6\*1')%5!

-!2#7N6%!2(H0!)2\*)!(#1!\*)1\*3)'<0+0\$!H01/(17\$!\*!\$#N<01\$'<0!/#+3)'(+P!M'1\$)!  
(/!\*66!NO3\*#\$0!L')2(#)!Q#\$R!'!N\*6\*36\*<\*\$M[#7H'+!!\*66!(<01!&0,!=0#\*10!L')2!

#11 '+ I!\$#HH(1)01\$!(/!)20!N\* +, !)(!3\*10/#66%!3(+\$', 01!)20'1!10\*\$ (+'+ I!NO/(10!H1(/0\$\$'+ I!)20'1!

/#66!\$#HH(1)!(/



&#\$\$\*!'\$!6'40!(+0!N'I!H1'\$(+P!!-+!(1!(#)A!%(!\*10!\*6L\*%\$!#+, 01!\$(70(+0!06\$08\$!3(+1(6PR}X!!  
. 6)2(#I 2!)20!7 ()'<\*)'(+!N02'+, !)20\$0!\$\*)070+)\$!3(#6, !<01%!L066!2\*<0!N00+!)(!H01\$#\*, 0!  
(6, 01A!7 (10!3(+01<\*)'<0G7'+, 0, !&#\$\$\*'\*\$+)\$!(!<'0L!" #\$\$%&!&'()8\$!(//'3'\*6!H01\$03#)'(+!)21(#I 2!  
)20!2'\$)(1'3\*6!60+\$!(/!=)\*6+'\$7A!)20%\$0070, !)(!N0!/!7 (10!0//03)'<0!\*)!10'+/(13'+I!\*

\$007 ,, [#\$)!1030+)6%)20!3')%!3 (#+3'6!(/" \*1'\$!, '\$3#\$\$0, !)20!\$\$#0!(/!" '<'+!!)20!H\*1)'3'H\*+)\$(/!  
" #\$\$!&' (!)20!)')60!(/!"2 (+ (1\*1%!3')'; 0+\$!(/" \*1'\$P!!. 60Z\*+, 01!=32'H4 (<A\*![(#1+\*6\$)!\*+, !\*!  
32#132!2'\$)(1'+A!\$00\$!)20!/(66(L'+!l6(I'3!'+!)2'\$!, (#N60!\$)\*+, \*1, \$!\*HH1(\*32!(/!)20!" \*1'\$!  
\*#)2(1')'0\$5!)20!2((6'I \*+'\$ 7!)2\*)!, 0\$)1(%\$!&#\$\$\*!'\$!I ((, A!)'\$!, 07 (31\*3%P!\#)!'!/)20!\$\* 70!  
2((6'I \*+'\$ 7!, 0\$)1(%\$!M1\*+30K ')!\$!\*!3 (7H60)06%!, '//010+!)!7\*)01RR<sup>DCD</sup>!=' 7'6\*16%A! | 017 \*+!  
J2\*+3066(1!. +!06\*!?'01406!, '103)6%!0#0\$)'(+0, !"#)'!+!\*N(#)!20!\*HH1(H1'\*!)0+0\$\$(/!)20!)L(G  
%0\*1!H1'\$(+!\$0+)0+30!2\*+, 0, !, (L+!)(!. 6%(42'+\*!'+, !>(6(4(++'4(<\*DCB!L20+![#\$)!\*!3(#H60!  
(/!"7(+ )2\$!H1'(1\*!)1'(!(/!H1()0\$)01\$!0+)010, !J(6(I+0!3\*)20, 1\*6!, #1'+! !\*!7\*\$#!'+!\*\$2(L!(/!  
\$(6', \*1')%L')2!" #\$\$!&' (!)\*+, !L010!\$#N\$00#0+)6%!\*110\$)0, !\*+, !32\*110, !L')2!0)20!  
, '\$1#H)'(+!(/!"100!H1\*3)'30!(/!"106'I'(+AR!L2'32!3\*11'0\$!\*!7\*Z'7#7!(/!"2100!%0\*1\$!' +!H1'\$(+P<sup>DCE</sup>!!  
. \$!L0!\$2\*66!\$00!7#)#\*6!'+/6#0+30\$!NO)L00+!" #\$\$!&' (!)\*+, !'+)01+\*)'(+\*6!H1()0\$)!  
7 (<070+)\$A!\$#32!\*\$!Y33#H%!F \*66!)=)100)!\*+, !MO70+A!2\*<0!\*6\$(!3(+ )1'N#)0, !)(!)20!

10/#\$0!3(7H1(7'\$0!\*!)20!0ZH0+\$0!(/!(+08\$!H01\$(+\*6!\$\*/0)%!(1!, '6#)0!)20!H(L01!(/!)20!  
'+, '<', #\*6!\*\$!\*!)((6!\*I\*'+'\$)!)20!'+'\$)')#)'(+\$(/!)20!\$\*)0P!!--!)20!L\*40!(/!)20!)1'\*6!"#\$\$%&'(!  
\*+, !)20!(HH('\$)'+!7 (<070+)!L010!N()2!H6\*I#0, !L')2!2\*1, \$2'H\$!L')2!'+'+)010\$)!L\*+'+I!\*\$!  
&#\$\$\*!\*+, !)20!L(16, !3\*70!)(!!1'H\$!L')2!"#)'+'8\$!)2'1, !H10\$', 0+)'\*6!)017P!. /)01!. 6%(42+'\*!  
L\*\$!\$0+)!)(!)20!-:

/'67\$A!\*\$!L066!\*\$!\$2(L\$!\*+, !3(+301)\$PR<sup>DCX</sup>! = \* 7 #)\$0<'32!'\$!3#110+)6%!'!2)' + !!)20\$0!0//(1)\$A!  
\$)\*'+15!

F 0810!\* I \*'+\$)!3(7 7 013'\*6!/(17\$A!\* I \*'+\$)!7#\$'3!\*\$! I ((, \$P!-)8\$!(#1!H1'+3'H60, !  
H(\$)'+!)(!H#)!(#1!L(14!(+6%!(+!(H0+!\$(#130\$K S(#>#NOM!9: (+)\*4)OK



/07'+ '\$)! , '\$3(#1\$0!'+ , !2\* <0!\$2(L+!6'))60!\$'I +!(/!/\*)'I #0P!!F 20)201!(1!+ ()!M070+8\$!H1()0\$)\$!  
2\* <0!)20!H(L01!) (!\*//03)!70\*+'+I /#6!'+ , !6\*\$)' +I !32\*+I 0!\$!#+360\*1!N#)!20!3(+ )1(<01\$%!\*+ , !  
, ON\*)0!)2\*)!2\*\$!\$#11(#+ , 0, !)20!I 1(#H!2\*\$!%'06, 0, !3(+ \$)1#3)'<0!, '\*6(I #0!\*N(#)!/07'+ '\$ 7!  
L(70+8\$!1' I 2)\$!'+ , !7(1\*6')%!' +!)20!)L0+) %G/'1\$)!30+)#1%P!!" #\$\$%&'()!2\* <'+ I !H10<' (#\$6%!  
(33#H'0, !)2'\$!' +/6#0+)'\*6!H('\$)'(+!' +!)20!70, '\*!2\*\$!, 07(+ \$)1\*)0, ![#\$)!2(L!H(L01/#66%!\*!  
L066G)'70, !L066G3(+ \$)1#3)0, !\*3)!(/!, 0/'\*+30!\*+ , !3(#1\*I 0!3\*+!\$2\*40!)20!L(16, P!!F 20+!\*+ , !  
L2010!)20!+0Z)!7\*[(1!0#\*40!L'66!2\*HH0+!107\*' +\$!) (!NO!\$00+P!

!

!



\0++0))\$A!?! \*13P!!Q-+!" #)' +8\$!&#\$\$\*!z'))60!=0H\*1\*)' (+!\0)L00+!J2#132!\*+, !=)\*OPR!! -H(  
Q86-GLO.5L(I G; H63(• {DE{BCDBP!!  
2))H5{{L L L P L \*\$2'+I)(+)'70\$P3(7 {+0L\${BCDB{\*#I {DE{H#}' +G1#\$\$\*G6'})60G  
\$OH\*1\*)' (+G32#132G\$\*)0{€H\* I 0, \*66!

!

\0++0))\$A!?! \*13P!!Q&#\$\$\*'+!" \*16'\*70+)!. HH1(<0\$!T | Y!M(10'I +!. I 0+)\$8!z\*LPR!VSU(f5e56.63(  
X{@{DBP!!2))H5{{0+P1'\*+P1#{1#\$\$\*{BCDBCXC@{DXVVE@}}EP2)76!!

!

!

\0++0))G=7')2A! ? 010, ')2P!!Q>(H60\$\$!M070+!. 3)'<'\$)!w\*'6!" (H08\$!&0\$I +\*)' (+A!=2(#)!T(!  
?(10!w(7 (H2(N08!' +!T ()10!^\*7OPR!T: iiGLO.5L(N56.3(B{DB{DEP!!  
2))H5{{L L L P2#/' +I)(+H(\$)P3(7 {BCDE{CB{DB{ (H60\$\$G/070+G\*3)'<'\$)\$G2\*'6GH(H0\$G



y6, 01A!?'1'\*7P!Q&#\$\$'\*+!0603)'(+5!H(6'30A!)1((H\$!\*+, !%(#)2!11(#H\$!\$)'/60!\*+)'G''#)' +!H1()0\$)\$PR!  
I -H(J: 84K68L3DB{@{DDP!!2))H5{{L L L P I #\*1, '\*+P3(P#4{L(16, {BCDD{, 03{C@{1#\$\$'\*+G  
0603)'(+6\*+)'GH#)' +GH1()0\$)\$!

!

y1070+4(A. 60Z0%P!QY1)2(, (Z!&\*, '3\*6\$!M'+, !#|G=H()8!' +!?'(\$3(LPR!VSU(F5e56.G3((•{B}{DBP!!  
2))H5{{0+P1'\*+P1#{1#\$\$'\*{BCDBC•B}{DX~-~CDVE•P2)76!

!

QMO70+!. 3)!'+!)20!J\*)20, 1\*6K M10+32!"(6)'3'\*+\$!' +!M#1%K ='7'6\*1')'0\$!)(!"#\$%&!&'()PR(I -H(  
F56<H(5i(V: 66683(B{BC{DEP!!2))H5{{0+16'\$2P1#<1P1#{BCDE•CB•BC{MO70+G\*3)G'+G)20G  
3\*)20, 1\*6GM10+32GH(6)'3'\*+\$G'+G/#1%G\$'7'6\*1')'0\$G)(G'#\$%G&'()!

!

QMO70+!. I '\*+\$)J2#132!\*+, !?'66'(+\*'10\$AR!kL0%6-(V: 66683('(\$)0, !DB}{DD!N%!Q(4V#BN#RP!

z'))\*#01A!^\*+P!Q"1(G^07(31\*3%!&#\$\$' \*+! ? (<070+)!&0[03]\$!z|\>! . 3)'<'\$)\$PR!J8YM.84fH263((  
DB{EC{DDP!!2))H5{{L L L P I \*%\$}\*1+0L\$P3(7{\*1)'360{H1(G, 07(31\*3%G1#\$\$' \*+G  
7(<070+)G10[03]\$G6I N)G\*3)'<'\$)\$!

!

z(N;' +\*A. 6'+\*P!QY1)2(, (Z!. 3)'<'\$)\$!J10\*)0! ? (\$3(L!" \*)1(6!=0#\*, \$PR! I -H(P56<52(fH263((  
•{BB{DBP!!2))H5{{}}207(\$3(L+0L\$P3(7{6(3\*6{BCDBC•BB{D}CDBB•EBP2)76!

!

?\*340%A!&(N01)P!Q. /)01!"#\$\$%&'(!)901, '3)A!J21'\$)'\*+!J#6)#10!F \*11'(1\$!&#+!&'(!)' +! ? (\$3(LPR!  
I -H(WHKH,(fH2(g54h(I G; H6P!!•{EC{DBP!!  
2))H5{{}}2060, OPN6(I \$P+%)'70\$P3(7{BCDB{C•{EC{/ (66(L'+I GH#\$\$%G1' )G<01, '3)G  
321'\$)'\*+G3#6)#10GL \*11'(1\$G1#+G1' )G'+G7(\$3(L{!

!

Q?0, '\*!J(<01\*I0!(/"#\$\$%&'(!)>1\*6!&0\$)1'3)0, !\%!J(#1)PR!VUNMS(V: 6668L(WHO89(SLi54; 8.65L(  
UOHL<Y3



&()2! . +, 10L!\*+, !&(N01)!? \*340%!Q&#\$\$\*!. \$\$'I+\$!\(, %I#\*1, \$!)(lv#, I0!. 20\*, !(/!901, '3)!'+!  
" #\$\$%!&'(!>1'\*6PR!! -H(FH2(g54h(I G; H63(•{D@{DBP!!  
2))H5{{2060, OPN6(I \$P+%)'70\$P3(7{BCDB{C•{D@{1#\$\$\*G\*\$'\$I+\$GN(, %I#\*1, \$G)(G  
[#, I0G\*20\*, G(/G<01, '3)G'+GH#\$\$%G1'()G)1'\*6{!!

!

Q&#\$\$\*'+!"#+4!\\*+, !" #\$\$%!&'(!| (!(+!w#+I01!=)1'40!'!+? (\$3(LPR!! -H(QHHh3E{@{DBP!  
2))H5{{L L L P)20L004P3(P#4{1#\$\$\*{1#\$\$\*G0603)'(+{V~XBB{1#\$\$\*+GH#+4GN\*+, G  
H#\$\$%G1'()G)(G2#+I01G\$)1'40G7(\$3(L!

!

=\*7#)\$0<'32!S04\*)01'+\*P!(-)01<'0L!N%!? '1'\*7!y6, 01P!QS04\*)01'+\*!\*=\*7#)\$0<'325!#F 0!J\*+8)!  
"01/(17!L')2!=#H01\$)\*1\$PR!! -H(J: 84K68L3(DB{BC{DBP!!  
2))H5{{L L L P! #\*1, '\*+P3(P#4{7#'\$3{BCDB{, 03{BC{%04\*)01'+\*G\*\$7#)\$0<'32GH#\$\$%G  
1'()G\$#H01\$)\*1\$!!

!

=32(0+N01!A!=2'1\*P!Q"1(Gz'/O!F ')2!yZ30H)'(+!M(1!&\*HOM!-+30\$)A!\*+, !y701!0+3%PR!

># 7\*+(<N|1'I(1%P!Q>20!^\*14!^('+I\$!(/!&#\$\$'\*8\$!JO+)10!yPR!m/HL(j H; 5<48<Y(V: 66683(  
•{B•{DBP!!2))H5{{LLLP(HO+, 07(31\*3%P+0){C, G1#\$\$\*{11'I(1%G)#7\*+(<{,\*14G  
, ('+I\$G