

! "#\$%&' \$() * ' + , - . # - ! \$ % & - *
' / / , 0 ' ! 1 2 * \$ 0 * \$ 1 - * / , ' ! \$ % ! - * 0 . * # ' 3 4 *
\$ 1 - * ' 5 - * 0 . * 6 - 7 % \$ ' \$ % 0 (% (* # -) ' # *
- 7 " ! ' \$ % 0 (*

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

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/ \$ 0 1 2 # 3 4 # * 3 5 / 2 5 / 6 #

75 / 839 : * / 735	! " !
9 247575 ; # \$ < 82412 * / 7 = 2 # \$ >> 83 \$ * ? @	! " "
* : 1 / 7 = \$ / 75 ; # 82412 * / 735	! " "
/ ? 2 # 2447 * \$ * A # 34 # B 297 / \$ / 735	! " C
* 35 * 1 : 6735	! D E #

75 / 839 : * / 735 #

/ ' F G # H I H - J # - K H , (J - G # & ' - # + G - # (L # M - N E & I & F (% # & (# O + , & F P I & - # & ' - # Q + I , F & F - G #
J - Q + F J - N # L (J # J - L , - O & F P - # H J I O & F O - # F % # & ' - # , - R I , # H J (L - G G F (% S # # / I T F % R # & ' - # : % F & - N #
U F % R N (M # O I J # * (+ % O F , @ G # > J (L - G G F (% I , # 6 & I & - M - % & # L (J # O I J J F G & - J G # I G # I # G & I J & F % R #
H (F % & V # F & # W - R F % G # W) # (+ &

! " ! #

ZE[ie# 6 # + \$. - , \$.) 7 * , * 8 (' 9 + ' 6 \$. - ' * , : : (" , 6 % 8 # ! " D #

IGG-GGM-%&v#H-JG(%I,#N-P-, (HM-%&#H(J&L(,F(GV#&' -#+G-#(L#PFJ&+I,#O' I&#J((MGV#
I%N#,-IJ%F%R#j(+J%I,GS^S##7&#FG#G+WMF&&-N# '-J-#&' I&#&' -#HJIO&FO-#(L#M-NF&I&F(%#
MI)#I,G(#W-#+G-L+,#F%#&' FG#O(%&-K&#W-OI+G-#(L#&' -#XI)#F%#X'FO'#F&#-#IW,-G#&' -#
G&+N-%&#(J#HJIO&F&F(%-J#&(#&+J%#&' -FJ#I&&-%&F(%#F%#XIJNV#O(%GOF(+G,)#&JIF%F%R#&' -#
MF%N#&(#J-R+,I&-#F&G-,LS## \$#NFO&F(%IJ)#N-LF%F&F(%#(L#&' -#P-JW#&(#aM-NF&I&-b#
G&I&-G#&' I&#F&#FG#&(#aL(O+G#) (+J#MF%N#I%N#LJ--#F&#(L#+%O(%&J(,,-N#&' (+R' &GSb^C##
\$,&' (+R' # I# PIJF-&#) (L# NFLL-J-%&# M-&' (NG# IJ-# IPIF,IW,-V-# M(G&# G)G&-MG# (L#
M-NF&I&F(%#F%P(,P-#&' -#&JIF%F%R#(L#I%#F%NFPFN+I,@G#I&&-%&F(%Sⁱ##7%# 'FG&#J-I&FG-#
(%#&' -#HJF%OFH,-G#(L#HG)O' (, (R) v# d F, FIM#fIM-G-MH' IGFc-N#&' -#-N+OI&F(%I,#
FMH(J&I%O-#(L#&JIF%F%R#I&&-%&F(%`#a&' -#LIO+,&#) (L#P(,+%&IJF,)#WJF%RF%R#WIOT#I#
XI%N-JF%R# I&&-%&F(%V#(P-J# I%N#(P-J# IRIF%V#FG#&' -#P-J)J((&#(L#j+NR-M-%&V#
O' IJIO&-JV#I%N#XF,,S## 5 (#(%-#FG#;</=<>*>?0#^MIG&-J#(L#(%-@G#G-,Le#FL#'-# 'IP-#F&#
% (&S##\$%#-N+OI&F(%#X'FO' #G' (+,N#FMHJ(P-#&' FG#LIO+,&#)X(+,N#W-#32@#-N+OI&F(%#
=AB*@C;@DD@E;@Sb^{IE}#

fIM-G@G#% (&F(%G#(L#aj+NR-M-%&v#O' IJIO&-J#I%N#XF,,b#I,,# 'IP-#I#J(-#&(#H,I)#
F%#&' -# -N+OI&F(%I,# HJ(O-GG# I%N# F%# I# J-L,-O&FP-# IHJ(IO '# &(# HJ(L-GGF(%I,#
HJIO&FO-S## 4 (J#&' -#,IX)-JV#j+NR-M-%&#FG#J-Q+FJ-N#&(#aO(%&F%+I,,) # IGG-GG#S#S#S#
X-IT%-GG-GV# ,FMF&I&F(%G# (J# T%(X(F&#)O(%)-1046000.2411.9906590.1694cmB5::(" ,6%8

!"g# ! " # \$ % & ' ! \$ ' () * + , & * (' - . ' & # ^ = (, \$ # " _ #

IXIJ-%-GG## \$G#% (&-N#W)#f(-, # 3J-%G&-F%V#a^We)#W-F%R#IXIJ-#(L#(+J#&'F%TF%R#
I%N#M-%&I,#HI&&-J%G#X-#IJ-#IW,-#&(# (WG-JP-#XF&'#RJ-I&-J#O,IJF&)V#O+&&F%R#
&'J(+R'#&'#&'#-#NFG&(J&F(%G#I%N#J-IO&F(%G#&'I&# 'IWF&+I,,)#L(JM#&'#-#WIGFG#(L#(+J#
&'F%TF%RSb!^##*(MM-%&F%R#(%&'#-#G-#(L#M-NF&I&F(%&'#-#% 'I%O-#&'#-#HJIO&FO-#(L#
,IXV#9-%FG# d IJJ-%V#I#? -I,&'OIJ-#\$&&(J%-)V#G&I&-G#

O)#&ITF%R#&'#-#FM-#&(#Q+F-&#(+J#MF%NG#I%N#(H-%#(+J#'-IJ&G#-IO'#NI)#I%N#
&(# ,((T#M(J-#N--H,)#F%&(#(+J#(X%#-KH-JF-%O-V#X-#W-RF%#&(#G-#I%N#
+%N-JG&I%N#(+J#FP-G#M(J-#O,-IJ,)V#X'FO'#,-ING#&(#F%#-J#WI,I%O-#I%N#H-IO-S##
'FG#HJ(O-GG#F%#&+J%#,-ING#&(#XFGN(M#I%N#O(MHIGGF(%V#X'FO'#F%L(JM#(+J#
N-OFGF(%\MITF%R#IO&F(%G#I%N#J-,I&F(%G'FHGS!^#

/ '-#-K&-%&#&(#X'FO'#&'#-#HJIO&FO-#(L#M-NF&I&F(%#-% 'I%O-G#O,IJF&#(L#
&'(+R'&#o#I#L+%NIM-%&I,#HJ-J-Q+FGF&-#(L#J-L,-O&F(%#o#M-JF&G#-KH,(JI&F(%#I%N#
X(+,N#W-#I#X(J&'X'F,-#IJ-I#L(J#L+J&'#-J#J-G-IJO'#(%# ,IX#G&+N-%&G#I%N#,-RI,#
HJIO&F&F(%-JGS^{1D}#6+G&IF%-N#O,IJF&#(L#&'(+R'&#W-F%R#HJ-MFG-N#(%#I#N-RJ--#(L#
M-%&I,#I%N#-M(&F(%I,#X-,,\W-F%RV#&'#-J-#FG#I#G+WG&I%&FI,#W(N)#(L#J-G-IJO'#
X'FO'#G+HH(J&G#&'#-#G-#(L#M-NF&I&F(%#IG#I#M-I%G#(L#INNJ-GGF%R#&'#-F,,\-LL-O&G#
(L#G&J-GG^{1E}#I%N#I#XI)#(L#-% 'I%OF%R#-M(&F(%I,#J-R+,I&F(%S^{1C}## / '-J-#FG#I,G(#

#

[!\$# f(-, #3J-%G&-F%V#\$2@*G0E5H?D*+AIF@BJ*G@503A30<E*AE5*32@*:BA;30;@*<H*+AIV#_D#1S#756/\$fS#"E#
YZE[[]\$#

["\$# 9-%FG# d IJJ-%V# #>0EI*G@503A30<E*3<* 'E2AE;@*32@*:BA;30;@*<H*+AIV#[g# 3?73#1S#[ZV#[!#
YZEEZ]\$#

[D\$# fI#fIO(W(XF&c#O(MM-%&G#&'I&#a^Fed#FG#NLLFO+,&#&(#NFGH+&-#S

ZE[ie# 6 # + \$. - , \$.) 7* , *8 (' 9+ '

!"_# !"# \$%&'!\$() *+, &*(' . . ' &# ^=(,S#"_#

&' -M#k (#N-P (&-#k' -#kFM-#%-N-N#k (#, -IJ%#k' -#GTF,,#(L#MF%NL+,% -GGS##>J(RJIMG#
N-GFR%-N#GH-OFLFOI,,)#L(J#^ -M-JRF%R#IN+,&Ge#IJ-#%-N-N#S#S#S#Z#E#
/ (# INNJ-GG#G+O'#O(%O-J%GV#I#%+MW-J#(L#M-IG+J-G#IJ-#%-N-N#S# 4FJG&V#
INPI%O-N#-KH,I%I&F(%#(L#&' -#O(%&-K&#L(J#&' -#+G-#(L#M-NF&I&F(%#FG#' -,HL+,#F%#
O(%P-)F%R#&' -#PI,+ -#INN-N#W)#&' -#HJIO&FO-S## /' -#LF%NF%RG#(L#J-G-IJO'#G&+NF-G#
I#N#&' -#&-G&FM(%FI,G#(L#HJIO&FOF%R#,IX)-JG#IJ-#+G-L+,S# #7&#FG#I,G(#+G-L+,#&(#
'FR','FR'&#&' -#+G-#(L#M-NF&I&F(%#F%#(&' -J#,IX#GO'((,GS##2KIMH,-G#(L#,IX#GO'((,G#
&'I&# 'IP-#MIN-#M-NF&I&F(%#IPIF,IW,-#&(G&+N-%&G#F%O,+N-#?IJPIJN#1IX#
60'((,VZ^#O-JT-,)#1IX^Z#*(,+MWF#1IX#60'((,VZ^# :%FP-JGF&#(L#=#FJRF#FI#
60'((,#(L#1IX^Z#&' -# :%FP-JGF&#(L#B FIMF#60'((,#(L#1IX^Z#&' -# :%FP-JGF&#(L#
6I#%4JI%OFGO(#60'((,#(L#1IX^Z#&'I#N#6&I#L(JN#1IX#60'((,S^Z##7%#INNF&F(%#V#I#
GFR%FLFOI%&#W(N)#(L#,F&-JI&+J-#-KFG&G#(%#&' -#+G-#(L#M-NF&I&F(%#W)#,-RI,#
HJIO&F&F(%-JGS^##7JJ-GH-O&FP-#(L#'(X#F&#FG#LJIM-NV#&' -#F%&-%&F(%#G'(+,N#(%&#W-#

#

ZES# 8(R-JGV#>?=>BA*(&-#[_#I&#D"C#YL((&(&-G#(MF&#N)#>@*AD><#/IMIJI#1#U+-%-%#V# \$2@*G*
&<B5V# " !#? 346/8 \$#1 \$#82=#!ZD#!!"#YZE[""]V#!!"#S#

* Z[4* !@#? \$ 8 = \$ 8 9#1 \$ d#6* ?S#E3@BHA032* :BAF@B*AE5*G@503A30<E*!=A;@V# ' &&H'mm',GS' IJPIJNS-N+n
M-NF&I&F(%#I#N#M#NL+,% -GG#M#Y,IG&#PFG&-N#(%#4-WS#[C#ZE[i]S#

* ZZ4* !@#* 028U212A# 1 \$ d#V# G0E5H?DE@>>* A3* P@BN@D@F* +A I V# ' &&HG'mmXXXS,IXSW-JT-,-)S-N+n
G&+N-%&G#M#NL+,% -GG\I&\W-JT-,-)\,IX#M#Y,IG&#PFG&-N#(%#4-WS#[C#ZE[i]S#

* Z!4* !@#* * 31 : B07\$# 1 \$ d# 6* ?S# 6+!* &@ND@F* G0E5H?D* G@503A30<E#
' &&H'mmXXXS,IXSO(+,MWFIS-N+n-P-%&G#O,G\X-T,)\M#NL+,M-NF&I&F(%#Y,IG&# PFG&-N# (%# 4-WS# [C#
ZE[i]S#

* Z"4* !@#* : 57=# 34# = \$#6* ?S# 34# 1 \$ d#V# G0E5H?DE@>>*0E*32@*+A I *+0QBABFJ* (@><?B;@>*AE5* 'K@E3>V*
' &&H'mm,FWR+FN-GS,IXSPJRF#FIS-N+nM#NL+,% -GG#Y,IG&# PFG&-N# (%# 4-WS# [C# ZE[i]S# 6--# I,G(# &' -#
F%O(JH(JI&F(%#(L#O(%&-MH,I&FP-#HJIO&FO-G#F%O,+N#R#M-NF&I&F(%#F%&(#6-M#P#IJG#F%#2&'FOI,#=I,+G-#
N-,FP-J-N#F%#&' -#4I, # (L# ZE[D#W)# BFO'I-,# \$# 1FP-JM(J-#Y' &&HG'mmO(%&-%&S,IXSPJRF#FIS-N+nHIG&\
O(+JG-GmPF-Xn[[D_ [i_gZ]#I#N#UJFG&F%# ; , (P-J#G0E5H?DE@>>*0E*+A I *! ; 2<<D>*AE5*+@IAD* : BA ; 30 ; @V#g#"#
= \$#1 \$ d#S#C#YZE[D]S#

* ZD4* !@#* : 57=# 34# B7\$B7# 6* ?S# 34# 1 \$ d#V# G0E5H?DE@>>* 0E* +A I * : B<JBA/V#
' &&H'mmXXXS,IXSMFIMS-N+nIOIN-MFOG#M#NL+,% -GG\F%,IX\HJ(RJIM#>@*AD><#60(&V#8(R-JGV# \$2@*
G0E5H?D*+A I *! ; 2<<DJ* , E*.E3@IBA30K@* , =B<A;2*3<*\$BAE#<B /0EI* +@IAD* '5?;A30<E#V#Z_ / 3 : 8 3 1 \$#
82=#S#[[_i#YZE[Z]S#

Zg\$# UIJMI '#2.M+GI#V#1IX#60'((,G#/-IO'#&' -#>JIO&FO-#(L#B-NF&I&F(%#V#* \$ 1743857\$#1 \$ d#Yf+-%-#
ZE[!]# ' &&H'mmXXZS01,,IX)-JSO(M#O,G&(J)SOLMq-FNr iZiE_C1X&-FNr iZiE_Cs1IXs60'((,Gs/-IO's
&' -s>JIO&FO-s(LsB-NF&I&F(%#S##6--#I,G(#&' -#HJ(LF,-#HIR-#(L#>J(L-GG(J#8'(%NI#BIR--V#aI#&-IO'-J#(L#
MF%NL+,% -GG\WIG-N#G&J-GG#J-N+O&F(%#F%&-JP-%&F(%#G#L(J#,IX)-JG#V#,IX#G&+N-%&GV#I#N#L(J#M#F#M#F#C#R#
G(OFI,\N-%&F&)\WIG-N#WFI#G#IPIF,IW,-#I&# ' &&HG'mmXXXS+GLOIS-N+n,IX#mLIO+,&)mJ'(%NI\MIR--S#

ZCS# 6/54389#1 \$ d#6* ?S#G0E5H?DE@>>*G@503A30<E#B*+A I *!3?5@E3># ' &&HG'mm,IXSG&I#L(JNS-N+n
-P-%&M#M#NL+,% -GG\M-NF&I&F(%#,IX\G&+N-%&G#M#Y,IG&#PFG&-N#(%#4-WS#[C#ZE[i]S#

Z_# 4(J#-KIMH,-G#G--4F,FHHI#B IJ+,(#\$%cI,(%-V#R#E*AE5*32@*,B3*<H#G?D303A>NOEIJ*G0E5H?DE@>>*
H<B*+A I *+0QBAB0AE>V#[EC#1\$#1708\$#f#Dg[#YZE[D]#dF, FIM#O,I&#V#&2A3S>*!=@;0AD*, Q<?3*G@503A30<ET*

ZE[ie# 6 # + \$. - , \$.) 7* , *8 (' 9 + ' 6 \$. - '* , : : (" , 6%8# !" i

