!

"#$!%&'##(!#)!*+,-./,,!!"/((0!12!34567!869:6;49!
6425!*-,'#<!*(=>!?8;4!!!@AB-(0!CB./DB.E,A+F/>+!
GB((B,H!IJ!KL4KLH!M%N!!!

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

()*$+,-)).$)/$0"1234115$+)"6-473$846-)9216$:32;47126<$

! 11216=36$>7)/411)7$)/$?3/)7@=62)3$+<164@1$

!

(: ; ' - 34!B . >!Y#. W! I B . H! I ' /!@))/&D!#)!" PR<D#!X/ ZBP>,!-. !b+. >PB-,-. W0!bP#A!B! a +B,-:/$</P-A/ . D!D#!B! G-&DBD#P! ` BA/F!!

!

J -B#R/!" ' / . W!! e -((#(! * B(B!!B . >! **(: ; ' - 34**!%' BP-. W!OP#>+&D,!#. !%#&-B(! T />-B0!%<#. ,#P/>!" #. D/ . D!B . >! OP#>+&D! ^-. \ ,F!3**%3**A=>'*** ; ?**<@<**=4**!BD!gNQ%7!

!

7 . * 8B&+B**) * . 9 * $ / /'**

(: ; ' - 34H!NA-D! * B, +H!B . >!g-. WC-. W! c ' B . WH! jQA<P#=-. W!D ' /!G/ ,-W . !#)! ` / . /PBD-=/!X/DP-/=B(!%R,D/A,!Z-D ' ! GR . BA-&!X/&#AA/ . >BD-#. ,Fk!

!

(: ; ' - 34H!X#Z/ . B! ` B . H!B . >! l R+. W ' //!^//H! j] ' / . !" P#Z>,#+P&-. W! T //D,!" P#Z>)+. >-. W0! I ' /!] #P\:G#. BD-#. ! Q . D/P<(BR!B . >!QD,!QA<(-&BD-#. ,!)#P!M, /P!@. WBW/A/ . DFk!

!

(: ; ' - 34dH!%' / . W, ' / . W! J -B#H!B . >!" ' P-,D#<' /P!V(-=#(BH!N! ` -)D!D#! ` -=/0! I ' /!QA<B&D!#)!" ' BP-DB_(/! ` -)D!" BP>,F!!

2

25F TB.BW-.W!N>#<D-#.!#)!NPD-)-&-B(!Q.D/((-W/.&/!-.!D'/!OP/,/.&/!#)!e+AB.!Q.D/((-W/.&/0!N!b-/(>!%D+>RF!
"#.)/P/.&/!#.!NPD-)-&-B(!Q.D/((-W/.&/H!TB&'-./!^/BP.-.W#!B.>!*+,-./,,!N.B(RD-&,H!O'-(B>/(<'-B#!
O/..,R(=B.-B#!4529!

!

22F jY#+!X+.H!Q!G#.BD/0!%'BP/>!%#&-B(!X/,<#.,-_-(-DR!D'P#+W'!B!G-,DB.&/!IPB&\/P!T#_-(/!N<<(-&BD-#.k#!Z-D'!^+&R!YB.!
B.>!N()#.,#!O/>PBiB:TBPD-./i#!-+'.)*)'/)%+'%&'.+*3"($+'%012()32%"'4%5)/6'+,+71%8-&059#!O'#/.-$#!NP-i#.B#!
452;!
!

24F jY#+!X+.H!Q!G#.BD/0!%'BP/>!%#&-B(!X/,<#.,-_-(-DR!D'P#+W'!B!G-,DB.&/!IPB&\/P!T#_-(/!N<<(-&BD-#.k#!Z-D'!^+&R!YB.!
B.>!N()#.,#!O/>PBiB:TBPD-./i#!D'/!L !0/$)'/)%+.%:6$,"'(6*+;1%&'$($"($<)%-+'.)*)'/)%80:&9#!Q.>-B.B<#(-,H!Qh#!452;!
!

28F j^/BP.-.W!)P#A!OP#C/&D!bB-(+P/!-.!l-&\,DBPD/Pk#!Z-D'!Y-.W>B!^+#!^-.!eB#H!B.>!Y#.W!IB.H!8; !&'()*'"($+'",%
-+'.)*)'/)%+'%&'.+*3"($+'%012()32!3Q"Q%7#!%/#+(#!l#P/B!452K!
!

2UF jN.!@$BA-.BD-#.!#)!%#&-B(!"#A<BP-,#.!IP-WW/P/>!_R!e-W'/P!G#.BD-#.![-,-_-(-DR!#=/P!%#&-B(!T/>-B!O(BD)#PA,k#!
Z-D'!Y-.W>B!^+!B.>!Y#.W!IB.H!=> %&'()*'"($+'",%-+'.)*)'/)%+'%&'.+*3"($+'%012()32%8&-&09#!G+_(-.H!QP/(B.>#!4526!
!

2LF jI'/![B(+/!#)!^-=/!"'BD!#.!V.(-./!O+P&'B,/k#!Z-D'!Y#+Z/-!]B.W!B.>!Y#.W!IB.H!=>

;F j T#P/!I 'B.!G#+_(/!Y#+P!QA<B&D0!N.!@A<-P-&B(!%D+>R!#)!TBD&':#))/P!#.!"'BP-DB_(/!"P#Z>)+.>-.W!
O(BD)#PA,Hk!Z-D'!c'/.!bB.WH!%'/.W,'/.W!J-B#H!B.>!Y#.W!IB.H!%'B.W'B-!M.-=/P,-DR!#)!b-.B.&/!B.>!
@&#.#A-&,!%+AA/P!%/A-.BPH!4542!
!
9F j T#P/!I 'B.!G#+_(/!Y#+P!QA<B&D0!N.!@A<-P-&B(!%D+>R!#)!TBD&':#))/P!#.!"'BP-DB_(/!"P#Z>)+.>-.W!
O(BD)#PA,Hk!Z-D'!c'/.!bB.WH!%'/.W,'/.W!J-B#H!B.>!Y#.W!IB.H!hBD-#.B(!M.-=/P,-DR!#)!%-.WB<#P/!G/<D!
#)!Q%!n!N.B(RD-&,!%/A-.BPH!4542!
!
25F j T#P/!I 'B.!G#+_(/!Y#+P!QA<B&D0!N.!@A<-P-&B(!%D+>R!#)!TBD&':#))/P!#.!"'BP-DB_(/!"P#Z>)+.>-.W!
O(BD)#PA,Hk!Z-D'!c'/.!bB.WH!%'/.W,'/.W!J-B#H!B.>!Y#.W!IB.H!OVT%H!4542!3<P/,/.D/>!_R!&#:B+D'#P7!
!
22F jQ.=-D-.W!bP-/.>,!D#!g#-.!OP#,#&-B(!^/.>-.Wm!N.!@A<-P-&B(!@$BA-.BD-#.!#)!D'/!X/)/PPB(!OP#WPBA!#.!
l-=B#k!Z-D'!g-B'+-!]B.W!B.>!e-((#(!*B(B#!QhbVXT%!N..+B(!T//D-.WH!4545!
!
24F jN!`-)D!D#!`-=/0!I'/!QA<B&D!#)!"'BP-DB_(/!`-)D!"BP>,Hk!Z-D'!%'/.W,'/.W!J-B#H!QhbVXT%!N..+B(!
T//D-.WH![-PD+B(H!4545!
!
28F j I'/!QA<B&D!#)!%+_,&P-<D-#.!X/&-<P#&-DR!#.!"'BP-DB_(/!"#.D/.D!`/./PBD-#.!B.>!%'BP-.WO!@=->/.&/!)P#A!
IZ-DD/P#k!Z-D'!Y-.W>B!^+!B.>!Y#.W!IB.H!QhbVXT%!N..+B(!T//D-.WH!%/BDD(/H!]B,'-.WD#.H!4529!
!
2UF j e#Z!D#!%'BP/!OP#,#&-B(!*/'B=-#P!Z-D'#+D!*/-.W!"#.,->/P/>!B!*PBWWBPDmk!Z-D'!^+&R!YB.!B.>!N()#.,#!
O/>PBiB:TBPD-./iH!QhbVXT%!N..+B(!T//D-.WH!%/BDD(/H!]B,'-.WD#.H!4529!
!
2LF j TB.BW-.W!N>#<D-#.!#)!NPD-)-&-B(!Q.D/((-W/.&/!-.!D'/!OP/,/.&/!#)!e+AB.!Q.D/((-W/.&/0!N!b-/(>!%D+>RHk!
Z-D'!T#&'/.!YB.W!B.>!`B.W!]B.WH!QhbVXT%!N..+B(!T//D-.WH!%/BDD(/H!]B,'-.WD#.H!4529!
!
26F j I'/!QA<B&D!#)!V.(-./!O(BD)#PA,!#.!%#&-B(!Q.D/WPBD-#.0!@=->/.&/!)P#A!B!^BPW/:%&B(/![#(+.D//P!
h/DZ#P\Hk!Z-D'!Y-)B.!Y+!B.>!Y#.W!IB.H!QhbVXT%!N..+B(!T//D-.WH!%/BDD(/H!]B,'-.WD#.H!4529!
3<P/,/.D/>!_R!&#:B+D'#P7!
!
2KF j e#Z!D#!%'BP/!OP#,#&-B(!*/'B=-#P!Z-D'#+D!*/-.W!"#.,->/P/>!B!*PBWWBPDmk!Z-D'!^+&R!YB.!B.>!N()#.,#!
O/>PBiB:TBPD-./iH!OVT%H!]B,'-.WD#.H!G"H!4529!
!
2;F j@.WBW-.W!"'BP-DB_(/!"#.D/.D!`/./PBD-#.!-.!V.(-./!%#&-B(!h/DZ#P\,0!@=->/.&/!)P#A!IZ-DD/PkH!Z-D'!Y-.W>B!^+!B.>!
Y#.W!IB.H!M.-=/P,-DR!#)!Q((-.#-,!BD!"'-&BW#H!452;!
!
29F j]'R!%'#+(>!Q!G#.BD/m!@$BA-.-.W!X/<+DBD-#.H!O//P!@))/&D!B.>!O#<+(BP-DR!@))/&D!#.!"'BP-DB_(/!`-=-.W!#=/P!%#&-B(!
T/>-B!O(BD)#PA,kH!Z-D'!Y-.W>B!^+!B.>!Y#.W!IB.H!Q.>-B.B!M.-=/P,-DRH!452K!
!
45F j]'R!%'#+(>!Q!G#.BD/m!@$BA-.-.W!X/<+DBD-#.H!O//P!@))/&D!B.>!O#<+(BP-DR!@))/&D!#.!"'BP-DB_(/!`-=-.W!#=/P!%#&-B(!
T/>-B!O(BD)#PA,kH!Z-D'!Y-.W>B!^+!B.>!Y#.W!IB.H!D'/!M.-=/P,-DR!#)!T/A<'-,H!452K!
!
42F !jM,/P:`/./PBD/>!"'BP-DB_(/!"#.D/.D!-.!%#&-B(!T/>-B0!@=->/.&/!)P#A!B!b-/(>!@$</P-A/.DkH!Z-D'!Y-.W>B!^+!B.>!
Y#.W!IB.H!QhbVXT%!N..+B(!T//D-.WH!hB,'=-((/H!I/../,,//H!4526!
!
44F jM,/P,0!X/,-(-/.&/!D#!l-&\,DBPD/P!%&BAkH!Z-D'!Y-.W>B!^+!B.>!Y#.W!IB.H!QhbVXT%!N..+B(!T//D-.WH!hB,'=-((/H!
I/../,,//H!4526!
!
48F j*+-(>-.W!X/<+DBD-#.!D'P#+W'!"'BP-DB_(/!`-=-.W!-.!V.(-./!%#&-B(!h/DZ#P\-.W!@.=-P#.A/.DkH!Z-D'!Y-.W>B!^+!B.>!
Y#.W!IB.H!QhbVXT%!N..+B(!T//D-.W!O'-(B>/(<'-BH!O/..,R(=B.-B#!452L!
!
4UF j^#RB(DR!OP#WPBA0!D'/!G-(/AAB!#)!%'-<<-.W!b//kH!Z-D'!Y-:"'+.!e#!B.>!Y#.W!IB.H!QhbVXT%!N..+B(!T//D-.W!
O'-(B>/(<'-BH!O/..,R(=B.-B#!452L!
!
4LF j I'/![B(+/!#)!^-=/!"'BD!#.!V.(-./!O+P&'B,/kH!Z-D'!Y#+Z/-!]B.W!B.>!Y#.W!IB.H!QhbVXT%!N..+B(!T//D-.W!
O'-(B>/(<'-BH!O/..,R(=B.-B#!452L!
!
46F jG/,-W.!#)!@))/&D-=/!X/ZBP>!%&'/A/!#.!"P#Z>)+.>-.W!O(BD)#PAkH!Z-D'!%'/.W,'/.W!J-B#!B.>!Y#.W!IB.H!%B.!
bPB.&-,&#H!"B(-)#P.-B#!452U!
!

4KF jN.!@A<-P-&B(!@$BA-.BD-#.!#)!D'/!%+P=-=B_-(-DR!#)!h/Z!%/((/P,!-.!B.!V.(-./!TBP\/D<(B&/k#!Z-D'!T-.W!bB.!B.>!
Y#.W!IB.#!QhbVXT%!N..+B(!T//D-.W!T-../B<#(-,#!

G-, , /PDBD-#.!"#AA-DD//!T/A_/P!#)!J-B#R/!"'/.W!345297!
O'FGF!X/&P+-D-.W!"#AA-DD//!34529H!45457!
"B,/!"#A</D-D-#.!g+>W/!)#P!T%Q%!OP#WPBA!3452;H!45297!
"B,/!"#A</D-D-#.!g+>W/!)#P!l/((/R!G-P/&D!3452;7!
!