

! "#\$%&' (\$"*)\$ + , &')
\$ -)#" \$ #&" .) \$ -)% \$ /)0\$ - ")))1 2'!

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)
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!
" # \$ \$ % " &! ' # & (% ' #) ! * + ! , (- + ! + ' ! . / 0 " + !
* / ! \$ " % 1 " # , , + ! * 2 # 3 & (% ' ! * 2 (- & # ' 4 /) !
+ ' ! 5 # 0 + / " ! * + - ! \$ # 6 - !) + - ! , % (' - !
0 # ' 3 + - !
7899:7878!
!

)

/ , % & ') * " 3) + , / ' " ! " 3)

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

! * & ' / 0 & ! & 1 & 2 / ' # 3 !

!



+.!2 , <&* & - 2&!&'!%#& - ''!(+&2!%&!5 * , \$ * (0 0 &!4&!4&+&% , 55&0 & - '!4 / * () %&!
(!%=< , *#> , -!89?9!&'!4=(/ ' * &'!5 * , 2&'"/'!0 , - 4#(/ 1!0 , - 4#(/ 1@@@@@!\$!
!

!



Y9*:@4W . -(I(/) * . ;(6-(G*,5 . 3943425(-539-(<=" <Z<=" %(-3(<=" !(' (" II
Y9*:@4W . -(B(/(012, . 3425(6-7(82 . 97(G2N-57(*55 . -,7(6-7(:926 . 437(6-(+*7-(6-(<=" ">(<=" !(' " !!
Y9*:@4W . -(K(/(Q5846-58-(6-(W . -,W . -7(G*,*64-7(C:2 . 9(G4,,-E(' (<BB
Y9*:@4W . -(&(/(012, . 3425(6-7(3* . ;(6-(G293*,43A(6-(<=" <Z<=" %(>(<=" !(' (<BB
Y9*:@4W . -(!(/(012, . 3425(6-7(9-772 . 98-7(\$45*584V9-7(G2+4,47A-7(-5(D(6 . (OQU(6-(<=" ">(<=" !
(..... (" I"
Y9*:@4W . -(#(/(X2N-55-(*55 . -, -(6-7(9-772 . 98-7(\$45*584V9-7(G2+4,47A-7(-5(D(6 . (OQU(6-(<=" ">(<=" ">(<=" !(' (" I"
)
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)
)

3'C&'3)' /), % ! 'D' , / ' 2 - 3)

UMOT [(((U*5W . -(8-539*,-(6-7(03*37(6-(,?TS94W . -(6-(,?2 . -73(
MQXO \ TO(((M2G43A(453-9G45473A94-, (6]* : : . 4(> (,|A,*+29*3425(6-7(\ * : : 2937(45434* . ; (-3(
: A94264W . -7(6-(G47-(-5(^ . 19-(6-7(8251-534257(453-95*3425*, -7(9*34S4A-7(: *9(
,-(X*,4(
M \ O J J(((M*69-(739*3AR4W . -(: 2 . 9(,*9-,*58-(A8252G4W . -(-3(-,-(6A1-,2: : -G-53(6 . 9*+,-(
M_M [X(((M-539-(6-(7*53A(82GG . 5* . 3*49-(
M_M \ O((M*69-(739*3AR4W . -(: 2 . 9(,*892477*58-(-3(,*9A6 . 83425(6-(,* : * . 19-3A(
M_ \ OP(((M-539-(6-(7*53A(6-(9ASA9-58-(
J J \ ((J A7*9G-G-53(6AG2+4,47*3425(-3(9A457-93425(
JFTMOF(((J 49-83425(5*3425*,-(6-(,?*77*45477-G-53(6 . (82539` ,-(6-7(: 2, . 34257(-3(
5 . 47*58-7(
OL [X(((OG : ,24(6-7(a- . 5-7(89A-(6-7([: : 293 . 543A7(* . (X*,4(
00b(((O : *G-5(: A94264W . -(. 541-97-,(
PTMOL(((P2567(6?* : : . 4(> (,*89A*3425(6?-539- : 947-7(: *9(-,7(a- . 5-7(
PTPO(((P2567(6?* : : . 4(> (,* . 3252G47*3425(6-(,*(S-GG-(-3(6-(,*-5S*53(
PT [(((P2567(6-7(5*34257(. 54-7(: 2 . 9(,*4G-53*3425(-3(,*R948 . ,3 . 9-(
PM \ Q) (((P2567(82G : A3434S(: 2 . 9(,*9-8@-98@-(-3(,*45521*3425(3-8@52,2R4W . -(
P J T c(((P45(6-(6ASA8*3425(> (,*49(,4+9-(((
YQO(((Y92 . : -G-53(6?453A9d3(A8252G4W . -((
YQ \ O(((Y-73425(453AR9A-(6-7(9-772 . 98-7(-5(-* . (
QF_) T) (((Q57343 . 3(5*3425*,(6-(73*34734W . -(
XTOMQ(((X45473V9-(6-7(*SS*49-7(A39*5RV9-7(-3(6-(,*822 : A9*3425(453-95*3425*,-(
[J J() [+a-834S7(6-(6A1-,2: : -G-53(6 . 9*+,-(
[J e J((([+7-91*3249-(6 . (6A1-,2: : -G-53(@ . G*45(6 . 9*+,-(
[QX((([9R*547*3425(453-95*3425*,-(6-7(G4R9*34257(
OTY() 092R9*GG-(6?*834257(6 . (Y2 . 1-95-G-53(
OTYTXHYPO(((O,*5(6?*834257(R2 . 1-95-G-53*,(: 2 . 9(,*GA,429*3425(-3(,*(G26-9547*3425(6-(
,*(R-73425(6-7(\$45*58-7(: . +,4W . -7(
OTYQ \ O(((O,*5(6?*83425(5*3425*,(6-(R-73425(453AR9A-(6-7(9-772 . 98-7(-5(-* . (
OTQ(((092R9*GG-(6?*83425(6?Q73*5+ . ,(
OTX(((092R9*GG-(,*4G-53*49-(G2564*,(
OT_OM(((

!



OJT(((02,434W. -(6-(6A1-,2: : -G-53(*R9482,-(
OJT\F(((092R9*GG-(:2.9(-,-(6A1-,2: : -G-53(*88A,A9A(6-7(9AR4257(6.(5296(
OJJ__(((O,*5(6A8-55*,(6-(6A1-,2: : -G-53(7*543*49-(-3(7284*,(
OJQ(((092R9*GG-(6-(6A1-,2: : -G-53(457343.34255-,(
OQU(((0926.43(453A94-.9(+9.3(
OQ_0



S*1-.9(6.(6A1-,2: :-G-53(6.(7-83-.9(:941Ag(G*47(4,(-73(825S9253A(>(6-7(457.SS47*58-7(457343.34255-.,-7(W.4(7253(-539-(.*.39-7(/(

(

- , -7(64SS48.,3A7(6-(G47-(-5(^.19-(6-7(:2,434W. -7(7-83294-.,-7(n(
- , -(S*4+, -(1249-(G*5W. -(6-(7.414(A1*, . *3425(n(
- , *(64SS48.,3A(6-(S45*58-G-53(6-7(*834257(:9A1. -7(6*57(-7(:2,434W. -7'(

T.(:,*5(7284*,g(+*-.82.: (6?-SS2937(7253(8257-5347(>(39*1-97(*G47-(-5(^.19-(6-7(:2,434W. -7(-3(:92R9*GG-7(5*3425*. ;(82GG-(,-(092R9*GG-(6A8-55*(, 6-(6A1-,2: :-G-53(6-(,?A6.8*3425(CO \ [J OME(-3(-092R9*GG-(6A8-55*(,6-(6A1-,2: :-G-53(7*543*49-(-3(7284*(,CO J J __E'(X*,R9A(8-7(*834257g(?A6.8*3425g(*7*53A(-3(*(:923-83425(7284*,-(7253(825S9253A-7(>(6-7(64SS48.,3A7(:2.9(*33-4569-(-7(9A7.,3*37(-782G:3A7'(

c*(G2+4,47*3425(6-7(9-772.98-7(S45*584V9-7(:2.9(,-(6A1-,2: :-G-53(-3(,-(9-5S298-G-53(6-7(8*:*843A7(*(8255.(6-7(A12.,34257(-582.9*R-*53-7g(G*47(,-.9(294-53*3425(1-97(, -7(7-83-.97(6-(6A1-,2: :-G-53(9-73-(>(9-1249(7.932.3(-7(T46-7(:.+,4W. -7(*.(6A1-,2: :-G-53g(-7(39*57S-937(6-7(S2567(6-7(G4R9*537'(

_?*R477*53(6-(,*82@A9-58-(-3(,4-57(*1-8(-(:92R9*GG-(6-(6A1-,2: :-G-53(6.9*+,-(>(?@294o25(<=%=(-3(6?* .39-7(:928-77.7(G2564*. ;g(-, X*,4(*825p.(,-(M \ 0 J J (-5(453AR9*53(-7([J J (-3(,?TR-56*(<=K%(6-(,?b5425(*S948*45-'(

c-(:928@*45(*R-56*(6-7(OXT(:2.9(-,X*,4(6243(G-339-(*88-53(-539-(.*.39-7(7.9(*7A8.943A(-3(*(: *4;(-5(.33*53(82539-(-,(-3-992947G-g(-,(-39*S48(6-(73.:AS4*537(-3(*894G45*,43A(39*57S9253*,4V9-(-5(9-5S29p*53(*822:A9*3425(*1-8(-7(*.39-7(:*N7g(-,(-9-5S298-G-53(6-(,*8*:*843A(6-(:926.83425(6-(6255A-7(73*34734W. -7(S4*+, -7(-3(7.SS47*GG-53(6A7*R9ARA-7g(-38'

!



'E' - / ! 2 * \$ G / ' 2 -)

c-(092R9*GG-(6?T83425(6?Q73*5+.,(-5(\$*1-.9(6-7(:*N7(-7(G2457(*1*58A7(:2.9(*6A8-554-(
<="Z<=<=<g(A5258-(I&(+.37(-3(2+a-834\$7(9-,-1*53(6-(@.43(62G*45-7(:942943*49-7g(-3(6AS4543(6-7(
*834257(:2.9(-7(OXT*4574(W.-(:2.9(-.97(:*93-5*49-7*(.6A1-,2:: -G-53(C:*N7(6A1-,2::A7(2.(
-5(6A1-,2:: -G-53E(7.9(.5-(A9426-(6-("=*57'

J-:.47(,*1V5-G-53(6.(8258-:3(OXT(6*57(-7(*55A-7("#&=*(.541-*(.6-7(F*34257(b54-7g(-(
X*,4(:9-56(9AR.,4V9-G-53(.5-(:*93(*8341-(*.;(*834143A7(6.(R92..-(6-(:*N7'



'E)&')# ! 2 G"33\$3)*')#&, - '1'G, / '2 -)*')* "D"& 2##" + " - /)
- , / '2 - , &)

"#\$!%&'(!) * '&+ ,!- , &!.'! /).0!

(
T1-8(.5-(7. : -9S484-(6-("<I"(<%!(hG<g(- (X*,4(-73(,?.5(6-7(:*N7(-7(:.7(1*73-7(6-(,?TS94W. -(6-(
,? [. -73'(O*N7(825345-53*(-58,*1A(743.A(-539-(-("=! "#(-3(<B! "#(6-R9A(6-(*343.6-(5296(-3(-539-(-,(I! "#(
6-R9A(6-(,25R43.6-(-3(-, "<!"#(6-(,25R43.6-(2. -73g(4,(: *93*R-(&(I<=(fG(6-(S92534V9-(*1-8(&(: *N7(
CT,RA94-g(F4R-9g(U.9f45*ZP*72g(M`3-(6?Q1249-g(Y.45A-g(X*.943*54-(-3(_A5AR*,E'(_*(: 2. : , *3425(-73(
-734GA-(>("#g#&=(G4,,4257(6?@*+43*537(-5(<=#'(T.(9N3@G-(6-(892477*58-(G2N-55-(6-(%gK(D,(? *5g(
,?-SS-834S(6-(*(:2. : , *3425(G*,4-55-(62.+,-9*(: 9-7W. -(32.7(-7(<=(*57'(

(
c*(: 2. : , *3425(G*,4-55-(7-(8*9*83A947-(: *9(7*(a- .5-77-(-3(: *9(.5-(.9+*547*3425(892477*53-'(05(-SS-3g(
IKgK(D(6-(*(:2. : , *3425*(G2457(6-("B(*57'(M-33-(:92:293425(-73(G2457(A,-1A-(: *9G4(-7(S-GG-7(
CIBg(DE(W. -(8@-o(-7(@2GG-7(CI&g#(DE'(05(6A:43(6?.5-(.9+*547*3425(9*:46-g,*(:2. : , *3425(-73(-5829-
-77-534-,-G-53(9.9*,-(C&Ig=(D(6-(9.9*.;(82539-(<Kg=(D(6-(843*6457E(7-,25(0X [O(<=" '!)

(
_.9(-(: *5(A8252G4W. -g(- (X*,4(8255*Q3(6- : .47(<=" "(6-7(3*.;(6-(892477*58-(9-, *341-G-53(12,*34,-7(
-3(7N73AG*34W. -G-53(7. : A94-.97(>8-.,4(6-(*(:92R9-77425(6AG2R9*: @4W. -(M-33-(12,*34,43A(6.(3*.;(6-
892477*58-(34-53(-5(: *934->(*(\$293-(1*94*3425(6-7(: -9S29G*58-7(6.(7-83-.9(:94G*49-(W.4(6A:-56(.4Z
GdG-(6-7(*,A*7(8,4G*34W. -7g(6-7(S*83-.97(-;2RV5-7(82GG-(*(+*477-(6.(82.97(6.(82325(-3(6-(*,29(
7.9,-(G*98@A(453-95*3425*(,2.(6-7(8* ,*G43A7(5*3.9-,-7(82GG-(*,451*7425(*89464-55-')

(
_.9(-(: *5(7284*g(- (6A84(G*a-.9(:2.9(- (X*,4(-73(8-.,4(6-(7*(892477*58-(6AG2R9*: @4W. -(Q,(? *R43(
6? *77. G-9(-7(8257AW. -58-7(6.(62.+,-G-53(6-(*(:2. : , *3425(32.3-7(-7(6-.; (6A8-554-7'(M-(6A84(7-
6A8,45-(7.41*53(.5-(G.,343.6-(6-(8292,,*49-7(6253(W.*39-(* : *9*477-53(:942943*49-7(/(*(:92G23425(6-
,*(a-.5-77-g,*(:92G23425(6.(R-59-g,*(:923-83425(6-(*,5149255-G-53(-3,*9A6.83425(6-7(45AR*,43A7')

"#2!3&45' --, -!6'!*.)70(05)8047!6,!69:'.4**';'78!7)8047).!
!

c*(: A9426-(<=" "Z<=<=(*(A3A(-3(6-G-.9-9*(.5-(A3*:-8@*954V9-(6*57(,?-;473-58-(-3(-(:928-77.7(
6-(6A1-,2: : -G-53(6-(*(\A : .+,4W.-(6.(X*,4'(05(-SS-3g(- (X*,4*(A3A(7-82.A(-5(<="<(: *9(.5-(
8947-(:2,43482Z7A8.943*49-'(c-(:928-77.7(6-(72934-(6-(8-33-(8947-(*(*+2.34(>(*,(74R5*3.9-g(-5(<="Bg(
6-(*,?T88296(:2.9(*,O*4;(-3(*(\A82584,4*3425*(.X*,4(477.(6.(:928-77.7(6?T,R-9')

((
M?-73(6*57(8-(8*69-(W.-(6V7(,*55A-(<=" "g(-(: *N7(7?-73(623A(6-(52.1-*.;(628.G-537(6-
:2,434W. -7(-3(6-(739*3AR4-7(6-(9ASA9-58-(-5(G*34V9-(6-(: *54S48*3425(6.(6A1-,2: : -G-53(5*3425*,'

(
T4574g(- (M*69-(_39*3AR4W. -(: 2.9(*,M92477*58-(-3(*(\A6.83425(6-(*,O*.19-3A(CM_M \ O(<="<Z
<="&E'*(A3A(A,*+29A(-3(*62:3A'Q,(8257343.*43(- (8*69-(.54W.-(6-(9ASA9-58-(6.(:928-77.7(6-
: *54S48*3425(-3(6-(G47-(-5(^.19-(6-7(:2,434W. -7(-3(739*3AR4-7(6-(6A1-,2: : -G-53(5*3425*,-5(
G*34V9-(A8252G4W. -g(7284*,-(-3(-5149255-G-53*,-'(Q,(A3*43(AR*, -G-53(-(:94584:*,(9ASA9-534-, (6-
5AR284*3425(6-7(: *93-5*49-7(3-8@54W. -7(-3(S45*584-97(6*57(-.9(* : .4(*.(: *N7'(_*(G47-(-5(^.19-
*6AW.*3-(6-19*43(-9G-339-(6-(:92:.,7-9(- (X*,4(7.9(*,124-(6-(*,AG-9R-58-')((

(
J?*.39-7(628.G-537(6-(: *54S48*3425g(*1-8(6-7(2+a-834S7(-3(147A-7(:92:9-7g(253(7.414,-(M_M \ O(
<="<Z<="&'Q,(? *R43(6.(O,*5(:2.9(*, \ -, *58-(J.9*+,-(6.(X*,4(CO \ OJE(<="Z<="Ig(6.(
092R9*GG- (6?T834257(6.(Y2.1-95-G-53(COTYE(<="Z<="!g(6.(092R9*GG-(:2.9(-,



, -7(2.34,7(6-(8*69*R-(G*892A8252G4W. -(-5(,4-5(*1-8(,*(G47-(-5(82@A9-58-(6-7(:2,434W. -7(: .+,4W. -7(*1-8(, -7(: 94584: -7(6?*, ,28*34257(739*3AR4W. -7(6-7(9-772. 98-7g(6-(9-569-(, -(: 928-77. 7(6-(: 9A: *9*3425(6. (+ . 6R-3(: , . 7(: *93484: *34Sg(6-(9-5S298-9(, -(7N73VG-(6?45S29G*34257(6-(, *(8@*q5-(6-(, *(6A: -57-(: .+,4W. -(-3(6-(S*84,43-9(, ?- ; A8. 3425(6. (+ . 6R-3(<=" !(-5(G26-(: 92R9*GG-'((
c*(G47-(-5(^ . 19-(6. (: , *5(6?*834257(6. (0, *5(R2. 1-95-G-53*, (6-(39*



0P#IQP?RS?T0UV!BQW!3IUXIQW!QT!BQW!BQY0W!B?VW!R?! / 0WQ!QV!ZSPIQ!BS!
3IUXI? / / Q!B[? =T0UV!B[0WT?V%SR!3USI!R?!BQ=QVV0Q!2\\$\$]2\2\!

)< =)*5089!6'!*&46,58047!

c*(892477*58-(A8252G4W. -(6.(X*,4(7.9(*(:A9426-(<="")(>(<=<=<(-59-R4739-(.5(3*.;(G2N-5(6-(
IgID(4G:.3*+,-(-5(R9*56-(:*934->(>,*R948.,3.9-(14194V9-(C8A9A*, -7Eg(>(*R948.,3.9-(6?-;:293*3425(
C82325Eg(>(>,456.7394-(3-;34,-g(*(:926.83425(6-(,?-*(-3(6-(,?A,-8394843Ag(*.;(39*57:2937(-3(
82GG.548*34257(-3(*.;(*834143A7(\$45*584V9-7'(05(-SS-3(*(:926.83425(8A9A*,4V9-(*(8255.(.5-(
-;:*57425(6-(<="")(>(<=""!(-59-R4739*53((6-(Bg%%(G4,,4257(6-(3255-7(>("=g"B#(G4,,4257(6-(3255-7g(
7243(.5(3*.;(892477*58-(*55.-,(G2N-5(6-(&g%"(D(*5'(M-7(9A7.,3*37(7253(2+3-5.7(-77-534-,-G-53(
>(*(\$*1-.9(6-7(G-7.9-7(45843*341-7(:947-7(*9(-Y2.1-95-G-53(*\$45(6-(72.3-549(*7A8.943A(
*,4G-53*49-(-3(5.39434255-,-(6?* .3*53(:.7(



X&)*COM, '!\$(H!T), F!6'!5&40--)75'!6'!. [95474 ; 0!'!8!-'-!()58', &-!5478&0>, 80(-!^'7! _ <!

!

c-(6A1-, 2: :-G-53(6-(,* (784-58-g(3-8@52,2R4-(-3(45521*3425(C_)QE(-73(.5-(:9A288. : *3425(6-7(
.32943A7(6.(X,4g(8-,*(-73(39*6.43(:*9(,?A,*+29*3425(-3(,*62:3425(6-(,*(:2,434W.- (5*3425*,-(6-(,*(
)Q(*772934-(6?.5-(739*3AR4-(6-(G47-(-5(^.19-(-3(6-7(*834257(>(G-5-9'(O2.9(72.3-549(*()Q(-3(7*(



X&)*COM, '!2!H!Q:4.,8047!6'!.)!*&46,58047!59&9).0D&'!6'!2\\$ \!E!2\\$`!'7!; 0..047-!6'!8477' -<!

!

O2.9(39*6.49-(,*OJT(-5(S*83-.9(S*12947*53(*7A8.943A(*,4G-53*49-g(-(*N7(*A,*+29A(-3(*62:3A(



X&)*COM, '!H!Q:4.,8047!6'!.)!34*,.)8047!'7!07-95,&089!).0; '78)0&'!6'!2\ \$L!E!2\ \$a!^'7!
; 0..0'&-!6[C]>08)78-<!

(

U4-5(19*4(W. -(,-7(3* . ;(6-(G*,5.3943425(253(+*477A(-539-(<="%(-3(<=" !g(-.97(541 -*. ;(9-73-53(-5829-(
:9A288. : *537(:*9(9* : :293(>((725(A9*648*3425(323*, -(-3(+-* .82. : (6?-SS2937(7253(>(8257-5349(>(8-3(
-SS-3'(
(

X&)*COM, '!L!H!



5< =4 ; ; '&5'!

#####5#B0: '&-0(05)8047!'8!'F8'7-047!6'!)!>)-'!6[F*4&8)8047!

c-(X*,4(647:27-(6?4G:293*53-7(:23-534*,43A7(-5(G*34V9-(6-(:926.437(6?-;:293*3425'(c-7(-;:293*34257(825394+. -53(*. (G*4534-5(6-7(R9*567(AW.4,4+9-7(G*892A8252G4W. -7(/(-5(:9-G4-9(,4-.g(>)*GA,429-9(,*(+*,*58-(82GG-984*,-(-3(*(+*,*58-(6-7(:*4-G-537'(05(7-8256(,4-.g(-,-7(6255-53(*. ;(-539-:947-7(5*3425*, -7(,*88V7(>(6-7(G*98@A7(:. .7(1*73-7(W.-(-,(G*98@A(,28*,g(-.9(: -9G-33*53(6-(1*,2947-9(-.97(451-73477-G-537(-3(6-(9A6.49(-,-.97(82v37(.543*49-7(-5(:926.47*53(>(:. .7(R9*56-(A8@-,,-'(05S45g(*892477*58-(6-7(-;:293*34257(7-(9A1V,-(73*34734W.-G-53g(.5(:.477*53(1-83-.9(6-(9A6.83425(6-(,*(:*.19-3A'((

c-7(-;:293*34257(G*,4-55-7(9-:27-53(:94584:*, -G-53(7.9(6-7(:926.437(6-(+*7(-(:. .39*57S29GA7(3-,7(W.-(-, -82325(R9*45-g(,?29(2.(,-(+A3*4,(7.9(:4-6'(M25746A9A7(82GG-(6-7(S4,4V9-7(j39*6434255-.,-7k(6?-;:293*3425(-3(6-(7. +7343.3425(*. ;(4G:293*34257g(8-7(:926.437(253(,25R3-G:7(A3A(6A3-9G45*537(6*57(,*8892477-G-53(6-7(-;:293*34257(6-(926.437(*R92Z456.7394-,7(6.(X*,4'(

c-(X*,4(*G298Ag(6-: .47(W.-,W.-7(*55A-7g(.5(:928-77.7(6-(641-974S48*3425(6-(7-7(-;:293*34257'(T4574g(-,7(S9.437g(-,7(AR.G-7g(-,7(:926.437(6-(,*8.-4.,-33-(2.(-5829(-,7(2,A*R45-. ;(3-56-53(>(392.1-9(-.9(:,*8-(:*9G4(-,7(-;:293*34257(6-(926.437(*R9482,-7(6.(X*,4'(

M-(:928-77.7(7?-73(39*6.43(-5(<="B(:*9(*9A147425(6-(,?A3.6-(64*R52734W.-7(9(,?453AR9*3425(6.(82GG-98-(COJQMEg(A,*+29A(-5(<==I(:*9(-Y2.1-95-G-53(6.(X*,4g(*1-8(*? :.4(6-(,*MFbM0J'(c?0JQM(*1*43(46-534S4A(6-7(7-83-.97(:942943*49-7(-3(9-82GG*56A(,?A,*+29*3425(-3(*G47(-5(^.19-(6?.5-(739*3AR4-(5*3425*,-(6-(6A1-,2: :-G-53(6-7(-;:293*34257(*4574(W.-(- 6-7(628.G-537(739*3AR4W.-7(7-83294-,7(3-,7(W.-(-,*(_39*3AR4-(5*3425*,-(6-(6A1-,2: :-G-53(6-7(-;:293*34257(*R9482,-7g(82@A9-53-(*1-8(*(_F0'(c-7(S4,4V9-7(9-3-5.-7(7253(*;A-7(.54W.-G-53(7.9(-,7-83-.9(*R9482,-'(c*_F0(6243(525(7-. , -G-53(825746A9-9(-,7(S4,4V9-7(*R9482,-7(G*47(AR*, -G-53(8-.,-7(6-(,?456.7394-(-3(6-7(7-9148-7'(

T4574g(-, (Y2.1-95-G-53(6.(X*,4(*4578943(:*9G4(-,7(:942943A7(6-(,*O2,434W.-5*3425*,-(6-(6A1-,2: :-G-53(6.(82GG-98-g(,?A,*+29*3425(6-(,*S-.4.,-(6-(92.3-(6?.5-(739*3AR4-(5*3425*,-(6-7(-;:293*34257(C_F0E(2SS9*53(6-7(: -97(-8341-7(-3(6-7(2: :293.543A7(52.1-.,-7(6-(,4+A9-9(, -7(:23-534*,43A7(-3(-,7(S298-7(141-7g(6-(6A1-,2: :-9(6-7(S4,4V9-7g(6-(G253-9(-5(R*GG(-3(6?*G298-9(,*(39*5743425(1-97(.5-(A8252G4-(6-(39*57S29G*3425(*;A-7(9(*1*,-.9(*a2.3A-g(*82G:A3434143Ag(-3(*6.9*+4,43A'(M-33-(S-.4.,-(6-(92.3-(147-(>(294-53-9(-,7(-SS2937(6.(Y2.1-95-G-53(-3(6-(7-7(O*93-5*49-7(1-97(*82572,46*3425(-3(,*8892477-G-53(6-(,*93(6-(G*98@A(6-7(-539-:947-7(-;:293*3948-7(G*,4-55-7'(

c*(P-.4.,-(6-(92.3-(S4;- (W.*39-(C=IE(2+a-834S7(739*3AR4W.-7g(>(7*1249(/(

- Z 9-5S298-9(*82G:A3434143A(6-7(-;:293*34257(G*,4-55-7(-5(*GA,429*53(-8*69-(6-7(*SS*49-7(-3(-,7(8256434257(:2.9(-,7(-539-:947-7(n(
- Z *882G:*R5-9(-,7(-539-:947-7(G*,4-55-7(6*57(-.9(453AR9*3425(*. ;(8@*q5-7(6-(1*,-.9(> ,?-.;:293(-3(-.9(*88V7(*. ;(G*98@A7(9AR425*. ;(-3(453-95*3425*. ;(n(
- Z 451-7349(6*57(-,7(8*:*843A7(6-(926.83425g(6-(641-974S48*3425(-3(6?45521*3425(6-7(7-83-.97(-3(S4,4V9-7(>(?-;:293(n(
- Z S*12947-9(.5(82GG-98(-;3A94-.9(W.4(825394+.-(*.6A1-,2: :-G-53(6.9*+,-g(>(*82@A7425(-3(>(?453AR9*3425(7284*,-(*(.X*,4'(



Z , -7(- ; : 293*34257(G*,4-55-7(72 .SS9-53(6?.5(\$*4+,-(541-*.(6-(39*57S29G*3425(6-7(:926.437g(523*GG-53(*R9482,-7'(

!

? ,!70: ') ,!07-808,80477' !

!

Z 6-7(,2.96-.97(*6G454739*341-7(:2.9(,?2+3-53425(6?.5-(*.32947*3425(6?- ; : 293*3425(:-97473-53(n(

Z ,?* : :921474255-G-53(-5(A,-8394843A(6-G-.9-(82v3-. ;(-3(:-.(S4*+,-(n(

Z , -7(529G-7(82GG.5*.3*49-7(9AR477*53(-,(39*57:293(6-7(G*98@*5647-7(*.(7-45(6-(,?-7:*8-(M O J O T [(5-(7253(:*7(9-7:-83A-7(n(-3((

Z 4,(- ;473-(.5(G*5W.- (6?29R*547*3425(-3(6-(:92S-774255*,47*3425(6-7(:92S-774257(6.(39*57:293'(

Z ,*(64SS.7425(6-(,745S29G*3425(82GG-984*,-(6-,(: *93(6-7(Q57343.34257(6?T : : .4(*.(M2GG-98-(-73(457.SS47*53-(n(

Z ,*(8229645*3425(-539-(,-7(Q57343.34257(6?T : : .4(*.(M2GG-98-(-73(457.SS47*53-(n(

Z ,-(541-*. (6-(8258-93*3425(-539-(*83-.97(:.+,487(-3(2:A9*3-.97(:941A7(-73(S*4+,-(n(-3((

Z ,*(:92G23425(6-7(:926.437(G*,4-57(7.9(-,7(G*98@A7(,28*. ;(-3(A39*5R-97(-73(,4G43A-'(

Z ,-(S*4+,-(541-*. (6-(1.,R*947*3425(6-7(692437(6-(:92:94A3A(453-.,-83.-.,-(*SS-83-(,* (8* : *843A(6?45521*3425(6-7(*R-537(A8252G4W.-7(n(-3((

Z , -7(-539- :947-7(G*,4-55-7g(-3(-,7(OX0(-5(:*9348.,4-9g(253(64SS484,-G-53(*88V7(*.(89A643(C,-7(8256434257(6?*88V7(7253(82539*4R5*53-7(-3(-,(82v3(6.(89A643(-73(A,-1AE'(

!

? ,!70: ') ,!7)8047).!

!

Z , -7(45S9*739.83.9-7(6-(39*57:293(7253(457.SS47*53-7(-3(1A3.73-7(n(

Z , -7(52G+9-.7-7(:928A6.9-7(6-(82539`,-(-,(25R(6-7(829946297(6-(39*5743(RA5V9-53(6-7(6A,*47(-3(6-7(:*4-G-537(45S29G-,7(n(-3((

Z 4,(N*(.5-(G.,34:,4843A(6-7(:273-7(6-(82539`,-(-3(6-7(:928A6.9-7(6?457:-83425(:@N74W.-(*. ;(64SSA9-537(:24537(6?*99d3(-,(25R(6-7(829946297(6-(39*5743(n(

Z ,?* : :48*3425(6-(8-93*45-7(649-8341-7(62.*54V9-7(9AR477*53(*,(4+9-(8498.,*3425(6-7(+4-57(*.(7-45(6-(,?-7:*8-(b O X [T(-3(6-(,* (M O J O T [(-73(457.SS47*53-(2.(9-3*96A-(n(

Z ,?A1*,*3425(6-(,*825S29G43A(6-7(:926.437(-3(7-9148-7(G*,4-57(-73(64SS484,-(n(

Z 4,(N*(.5(G*5W.- (6-(9-8255*477*58-(6-7(S29G*,43A7(_O_(*.(X*,4(n(

Z , -7(8-934S48*37(6?294R45-(G*,4-57(5-(7253(:*7(9-8255.7(6*57(-,7(:*N7(:*93-5*49-7(n(-3((

Z ,?*88V7(*. ;(G2N-57(6-(3A,A82GG.548*3425(G26-95-7(-73(,4G43A'(

Z ,?-5149255-G-53(6-(,451-73477-G-53(-73(:-.(S*129*+,-(CG*5W.- (6?45S9*739.83.9-7(6-(+*7-g(457A8.943A(a.9464W.-g(64SS484,-(*88V7(>(?A5-9R4-g(S*4+,-(541-*. (6-(W.* ,4S48*3425(6-(,* (G*45(6?^ .19-g(-38'E(n(

Z ,*(R-73425(6.(S2584-9(*R9482,-(*SS-83-(,-(6A1-,2 : : -G-53(6-7(S4,4V9-7(*R9482,-7(n(

Z ,*(G*q3947-(6-7(947W.-7(-5149255-G-53*.;(-73(457.SS47*53-(n(

Z 6-7(:92+,AG*34W.-7(,4A-7(*.(R-59-(:-97473-53(n(-3((

Z .5(8@`G*R-(6-(G*77-(8@-o(-,7(a-.5-7(:-97473-'(

(

6< 3&46,08-!6!>)-'!

c?A8252G4-(G*,4-55-(-73(S293-G-53(6A:-56*53-(6-7(:926.437(6-(+*7-(6?- ; : 293*3425(82GG-(-,(-82325(-3(,?29(32.3(82GG-(*82572GG*3425(-73(*.774(6A:-56*53-(6-7(:926.437(6?4G:293*3425'(05(1.- (6-(64G45.-9(8-33-(6A:-56*58-g(-(:*N7(*62:3A(-,7(G-7.9-7(





'< B9:'.4**' ; '78!6,!-'58' ,&!*&0:9!

M-7(6-954V9-7(*55A-7g(-7(T . 32943A7(G*,4-55-7(253(: 947(6-7(45434*341-7(>(?-569243(6.(_-83- .9(O941A(
>(39*1-97(,*62:3425(6-(,247g(,?A,*+29*3425(6-(628. G-537(6-(:2,434W. -7(G*47(*.774(,*(89A*3425(
6?457343.34257(:*9G4(-7W. -,,-7(25(523-/(

,?*62:3425(6-(,*c24(6? [94-53*3425(6.(_-83- .9(O941A(n(
,?*62:3425(6-(,*c24(6? [94-53*3425(TR9482,-(n(
,?*62:3425(6-(,*c24(:293*53(9AR,-G-53*3425(6-7(_N73VG-7(P45*584-97(J A8-539*,47A7(n(
,?*62:3425(6-(,*c24(\$4;*53(-,(9AR4G-(6-7(M-539-7(6-(Y-73425(TR9A-7(-3(,-7(*77284*34257(
6-(:92S-77425(,4+A9*,-(n(
,*(O2,434W. -(F*3425*,-(6-(O92G23425(6-7(Q51-73477-G-537(n(
,*(89A*3425(6.(M257-4,(O9A746-534-,(:2.9(,?Q51-73477-G-53(n(
,*(89A*3425(6.(M257-4,(_ . :A94- .9(6.(_-83- .9(O941A(n(
,*(M9A*3425(6?.5-(.543A(6-(O*93-5*94*3(O. +,48(O941A(n(
,*(89A*3425(6?.5(X45473V9-(6-(,?Q51-73477-G-53(O941Ag(6-7(OX0(-3(6-(,?O539- :9-5- .94*3(
F*3425*,'((

(
X*,R9A(8-7(45434*341-7(-,(6A1-,2: :-G-53(6.(7-83- .9(:941A(9-73-(825S9253A(>(6-7(457.SS47*58-7(
457343.34255-,-7(W.4(7253(-539-(* .39-7/(

(
, -7(64SS48.,3A7(6-(G47(-(-5(^ .19-(6-7(:2,434W. -7(7-83294-,-7(



(
T4574g(:2.9(-582.9*R-9(-7(451-73477-G-537(:941A7(-3(*8892439-(,*825394+.3425(6-7(-539-:947-7(>
,*(



G4R9*537(@*.3-G-53(W.*4\$4A7(-3(4573*.,A7(6-(S*p25(:-9G*5-53-(>(,?A39*5R-9(6-(S*49-(+A5AS484-9(>
,-.97(:*N7(6?294R45-7(-.97(-;:A94-58-7(-3(-;:-9347-7'((
(
_-7(:94584:*.;(2+a-834S7(7253(C4E/(S*49-(+A5AS484-9(-7(:*N7(-5(6A1-,2:: -G-53(6-7(82G:A3-58-7(



:9A828-g(?-;26-(9.9*,g(*(:*.19-3A(6-7(:*9-537g(?A,24R5-G-53(6-7(45S9*739.83.9-7(-3(-G*5W.-(-6-(82GG2643A7(C8*5345-7g(324,-33-7E(8256434255*53(:*9S247(*9A3-53425'(<

b5-(.39-(9*4725(:.77*53(-7(:*9-537(>9-349-9(-7(-5S*537(6-(,?A82,-(-73(-S293(3*.;(6-(8@`G*R-(7.9(*39*58@-(6)uR-("BZKI(*57g(-8@`G*R-(32.8@-((#"D((6-(:-97255-7(-5(<="&'03(8-(3*.;(7-G+,-(892q39-(.*S4,(6-(,?*1*58A-(-5(541-*(.6?45739.83425'(05(-SS-3g(:.,7(.5-(:-97255-(-73(45739.43-(-.(X*,4g(:.,7(4,(82.93(-947W.-(-6?d39-(*(.8@`G*R-(8*9(4,(-73(6-(II'<D(8@-o(-7(:-97255-7(*N*53(.5(541-*(.6?45739.83425(7.:A94-.9-(82539-(9-7:-8341-G-53(%!g!D(:.2.9(8-.;(*N*53(.5(541-*(.7-8256*49-(2.(.*.8.5(541-*(.6?45739.83425(CMS'(M\OJJ(<="#(x(<=<=E(6*57(.5(8253-;3-(2m(a.7W.?)>(II#g#D(6-(,*(:2:.,*3425(-73(:*.19-(-5(<="&'(
!|34*,.)8047!'8!-)789!*&0;)0&'!

T.(X*,4g(-7(:2,434W.-7(-3(-7(739*3AR4-7(6-(7*53A(7253(G47-7(-5(^.19-(>(39*1-97(6-7(:*57(6A8-55*.;(-3(6-7(:92R9*GG-7(W.45W.-55*.;'(c-(O,*5(JA8-55*(,6-(JA1-,2:--G-53(_*543*49-(-3(_284*(,COJJ__E(<="IZ<=<=(*A3A(G47(-5(^.19-(>(39*1-97(.5(:92R9*GG-(W.45W.-55*(,7.41*53(,]*: :928@-(7-83294-.,-'(c-(O92R9*GG-(6-(JA1-,2:--G-53(_*543*49-(-3(_284*(,CO\ [JJO__(QQQ Eg(7.9(*:A9426-(<="IZ<="!(82G:9-5*53(""(2+a-834S7(7:A84S4W.-7g(147-(>(*GA,429-9(?A3*3(6-(7*53A(6-7(:2:.,*34257(>39*1-97(?*88V7(*.;(72457(6-(7*53A(523*GG-53!,*7*53A(6-(,*9-:926.83425(C_\Eg(6-(5.3943425(6-7(S-GG-7(-58-453-7g(6-7(-5S*537(-3(6-7(52.99477257'((

(
c*(G47-(-5(^.19-(6-7(*834257(6*57(-8*69-(6-7(64SSA9-53-7(:2,434W.-7(5*3425*, -7(253(:-9G47(.5-(*1*58A-(74R54S48*341-(-5(G*34V9-(6-(7*53A(523*GG-53(-5(3-9G-7(6?88-774+4,43A(RA2R9*: @4W.-(-6-7(72457(-3(7-9148-7(6-(7*53A'(
(

X*,R9A(8-3(-SS293(9-G*9W.*+,-(>(*88V7(6-(,*(:2:.,*3425(*.;(45S9*739.83.9-7(7*543*49-7g(,745846-58-(-3(*:9A1*, -58-(6-(8-93*45-7(G*,*64-7(9-73-53(:9A288.:*53-7'((
J*57(-62G*45-(6-(,*9A6.83425(6-(,*G29+4643A(-3(6-(,*G293*,43A(G*3-95-.,-g(5A25*3*,-g(45S*534,-(-3(45S*532Za.1A54,-g!,*9A1*, -58-(82539*8-:341-(8255.(.5-(,ARV9-(GA,429*3425(-539-(<="&(-3(<="!(*1-8(9-7:-8341-G-53(<=g="D(-3(<=g!&D'(c?2+a-834S(6-("BD(:9A1.(.>(*S45(6.(O\ [JJO__(QQQ(*A3A(6A:*77A(6-: .47(<="K'((
(!

c-(3*.;(6?882.8@-G-537(*77473A7(:*9(6.(:-97255-,(W.*,4S4A(-73(:*77A(6-(%<g=!(-5(<="&(>((% !g"ID(-5(<="!(M-,*7?-;:,4W.-g(-539-(.*.39-7g(:*9(*W.*,43A(-3(,7457.SS47*58-(6-(8-33-(8*3AR294-(6-(:-97255-,(C7R-7ZS-GG-7(-3(45S49G4V9-7(2+73A39484-55-7E(6*57(-7(S29G*34257(7*543*49-7(:A94:@A94W.-7'(c-(3*.;(6-(82.1-93.9-(1*8845*, -6-7(-5S*537(6-(G2457(6?.5(*5(-5(O-53*Z%(-73(:*77A(6-(!#D(-5(<="&(>(#BD(-5(<="!(7.9(.5-(:9A147425(6-(#BD(-3(-3*.;(6-(82.1-93.9-(zT\(-73(:*77A(6-(!&D(-5(<="&(>(#<D(-5(<="!(7.9(.5-(:9A147425(6-(#D'(c*:92:293425(6-(6A8V7(*3394+.*+,-7(*.:*,.647G-(:*9G4(-7(-5S*537(6-(=ZB(*57(*33-4537(6-(:*.,647G-(1.7(6*57(-7(S29G*34257(7*543*49-7g(*+*477A(6-(%I#g##D(-5(<="&(>(#g<%D(-5(<="!(7.9(.5-(:9A147425(6-(%=D'(1.*53(>(*O92:293425(6-(S-GG-7(-58-453-7(*N*539-p.(.5-(G2.734W.*49-(4G:9AR5A-(W.4(A3*43(6-(&#gI=D(-5(<="&g(*8255.(.5-(,ARV9-(+*477-(-5(<="!(C&<g&DE(7.9(.5-(:9A147425(6-(!<D'(
c-7(-SS2937(-5(G*34V9-(6-(, .33-(82539-(-zQeH_46*(7-(:2.97.41-53(7-,25(*739*3AR4-(6-7(39247(#=#(Q,(7?*R43(:.2.9(-(:9-G4-9(#=(6-(S*49-(-5(7293-(W.-(#=(6-7(:-97255-7(141*53*1-8(-zQe(COz zQeE(8255*477-53(-.9(73*3.3(7A92,2R4W.-'(_?*R477*53(6.(6-.;4VG-(#=#g(4,(74R54S4-(W.-(#=D(6-7(Oz zQe(W.4(8255*477-53(-.9(73*3.3(7A92,2R4W.-(-724-53(G47(72.7(39*43-G-53(T\z(-3(:.2.9(8-(W.4(-73(6.(392474VG-(#=#g(4,(74R54S4-(#=#D(6-7(Oz zQe(72.7(39*43-G-53(T\z(*4-53(.5-(:8@*9R-(149*,(-456A3-83*+,-'((
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X&)*COM, '!f!H!07506'75!'6'M, '.M, '-! ;).)60'-!^*4, &! ; 0..'<!

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J -(GdG-g((,-7(3*. ;(6-(G293*,43A(9-73-53(39V7(A,-1A7(82GG-(4,,.739-(-,(R9*:@4W. -(%'(c-(3*. ;(6-(
G293*,43A(G*3-95-,-(*.(X*,4(C%<B(:2.9(8-53(G4,,-(-5(<="!E(9-73-(>(.5(541-*. (39V7(A,-1A(:*9(
9*::293(*. ;(2+a-834S7(6AS4547(:*9(,-7([J Jg(8?-73Z>Z649-(*.Z6-772.7(6-(&=(:2.9("==(===(
5*477*58-7(141*53-7(1249-(8-. ;(9-,*34S7(>(oA92(6A8V7(6-(S-GG-7(-5(8*7(6-(R9277-77-(2.(
6?*882.8@-G-537'

((

X&)*COM, '!d!H!Q:4.,8047!6'-!8),F!6'! ; 4&8).089!6'!2\ \$2]2\\$''!E!2\\$`!



Q7! ;)80D&'!6'!





-3(\$29GA(#<(12,253*49-7(7.9(-7(:92a-37(OF b J (-3(<<=(7.9(-,(-O92a-3(_Q\ T'((c*(825394+.3425(>(
 ,JAG-9R-58-(6].5(G26V,-(6-(8432N-5(:A394(6-7(1*,-.97(5*3425*, -7(-3(2.1-93(>(>Q6A*,(.541-97-,(
 6253g(-(:926.43(W.4(-73(*(_-G*45-(F*3425*,-(6?t 6.8*3425(M432N-55-(-3(6?t 1-4,(O*394234W.-(
 C_F O M O O E(*A3A(457343.34255*,47A-'(O5(2.39-g(*(:92:293425(6-(*(:2:.,*3425(W.4(7-(6A8,*9-(
 45\$29GA-(-3H2.(7-574+4,47A-(7.9(*8432N-55-3A(-3(-,(-84147G-(-73(A1*,.A-(>(<BD(82539-("BD(
 *33-56.-'()

**T)>.) , !N!H!Q:4.,8047!6' -!07605)8' , &-!6'!)!g' , 7' --!'!8!6'!)!=47-8& , 58047!5084c'77'!6'!
 2\ \$f!E!2\ \$`!**

!07605)8' , &-!	S 7089!	? 779' -!		
		2\ \$f!	2\ \$d!	2\ \$`!
)*. ;(6-(:92R9-77425(6-(,*(:*93484:*3425(6-7(a-.5-7(*. ;(*834143A7(29R*547A-7(	D(	<g#K(	#g##("=(
)*. ;(6?457-93425(6-7(a-.5-7(\$29GA7(	D(	K=(	#"gB!(	"&"gI<(



8256434257(6-(14-(G-4,, - . 9-7'(c-(8@`G*R-(-539*45-(AR*, -G-53(.5-(S293-(AG4R9*3425(6-7(a- . 5-7/(
!&g<(D(6-7(AG4R9*537(453-95*3425* . ;(A12W. -53(*9*4725(A8252G4W. -(82GG-(: 94584 : *,(G234S(6-(
6A : *93g(-7(a- . 5-7(6-("B(x(%B(*57(A3*53(-7(: . . 7(8258-95A7'((

!

_-,25(-7(:92a-834257(6AG2R9* : @4W. -7(>(?@294o25(<=<B(9A*,47A-7(:*9(* (J F O g(4,(S* . 3(* . (9-R*96(
6-(* (892477*58-(6AG2R9* : @4W. -(9* : 46-(C%gK(DE(* (89A*3425(6-(%=='=== (52 . 1- * . ;(-G : ,247g(: *9(
*5g(((: 2 . 9(-7 : A9-9(A72 . 69-(-(- : 92+,VG-(6-(?-G : ,24g(32 . 3(-5(RA9*53(-7328f(6-(8@`G- . 97(-3(A143-9(
6-(82G : 92G-339-(-,*33-453-(6. (J 4146-56-(6AG2R9* : @4W. -'((

!



W4!B+7+-A!.A.17!-2!/-B+XA.81+4?!7-!/003.2/!342! : 3.2=!/A.!79-52-4/+34!6-!79300.-!6-!/-.,+)-!69-1A! : 32187-!K!
:7A/!6-!#?&!B+77+34/!6-!:-./344-/?!K!2.1,-./!71!)34/2.A)2+34!-2!71!B+/-!-4!/-.,+)-!6-! : 7A/!6-!#LQ!/J/2GB-!/!
69166A)2+34!69-1A! : 32187-?!1,-)#E&Q!83.4-/!03421+4-!/!-2!C&&!8.14)I-B-42/?!&(\$!/J/2GB-!/!IJ6.1A7+@A-!/!
,+771>-3+/?!1B=7+3.=/?!E'EQ!03.1>-!/!=@A+: =/!6-!FDY!-2!E#Q! : A+2/?!B36-.4-/"!!!!

<A.!7-! : 714!6-!791))G/! 1A5! 3A, .1>-!/691//1+4+//B-42!6-!81-!1B=7+3.=/?!71! : .3:3.2+34!6-!B=41>-!/!
6+/:3/142!6-!23+7-22-!/1,-)!I1//!69-1A!1!=,37A=!6-!\$!O!-4!(Q' '!K!#?!O!-4!(Q'#!?1,142!6-!/9=2187+.!K!
C?E!O!-4!(Q'&!1A! : 714!412+3417"!!

O*9(*4,,-.97g(: ,.74-.97(*834257(7253(G-5A-7(-5(1.- (6-(,?*GA,429*3425(6.(8*69-(6-(14-(6-7(
:2:.,*34257(-5(RA5A9*,(825S29GAG-53(*. ;(294-53*34257(6-(,*(02,434W.- (F*3425*,-(6-(
,?*77*45477-G-53(*62:3A-(-5(<==&'Q,(?)*R43g(-539-(.*.39-7(6-/(,?A1*8.*3425(6-7(6A: `37(6?296.9-7(
GA5*RV9-7(523*GG-53(6*57(-7(R9*567(8-539-7(.9+*457(n,(825739.83425(-3((,*GA5*R-G-53(6-7(
2.19*R-7(6?77*45477-G-53(n,(825739.83425(6?.543A7(6-(7AW.-739*3425(6.(8@92G-(6*57(-,7(
3*55-94-7(-3(-.9(6A8255-;425(6.(9A7-*.(6?AR2.3(n,-((8.9*R-(6-7(9-R*967(6-(+9*58@-G-53(-3(6-(
14743-(n,(825S-83425(6-(6*,-7(:2.9,(S-9G-3.9-(6.(+*7745(6-(: 9A39*43-G-53'(

(
T.774g(6-7(*834257(6-(7-574+4,47*3425(-3(6?45S29G*3425(253(A3A(-SS-83.A-7(: *9(, -7(_-9148-7(
6?T77*45477-G-53(6-(M2539^,-(6-(02,,.3425(-3(6-7(F.47*58-7g(, -7([FYg(, -7(*77284*34257(
6?77*45477-G-53(-3(-7(-539- : 947-7(:2.9,(?*6@A7425(6-7((:2:.,*34257(*.(7-9148-(6-7(Y92. : -G-537(
6?Q53A9d3(08252G4W.- (CYQ0E(-3(*8-77*3425(6-(,*6ASA8*3425(>,(?*49(,4+9-'(T4574g(7-.25(9%\$) ' 'O\$#%
: ; <N%I'"/, '"/&%O+4\$'"/I+%IMHPP%: ; <N%Q%: ; <B(kg(-5(9*4725(6.(8@*5R-G-53(6-(82G:293-G-53(
2:A9A(8@-o(-7(:2:.,*34257g(<(I!&(14,,*R-7(253(*8W.47(-,73*3.3(P45(6-(JASA8*3425(>,(?T49(c4+9-(
CPJTcE(7243(#=(D(-3(<(IK(14,,*R-7(253(A3A(8-934S4A7(7243((!BD'(T.774g(6-(52G+9-.7-7(
45S9*739.83.9-7(C: .47*967g(*3945-7g(6A: `37(6-(39*5743g(82,-,83-.97g(8*541-*.:E'(

X*,R9A(,-7(-SS2937(8257-5347(6*57(-,(72.7Z7-83-.9g(6?A529G-7(64SS48.,3A7(6-G-.9-53'([5(: - .3(
843-9(-539-(* .39-7/(,*(S*4+,-(7-574+4,47*3425(6-(,*(:2:.,*3425g(,*(:92,4SA9*3425(6-(7*8@-37(
: ,*734W.-7g(,*9A*,47*3425(6?45S9*739.83.9-7(6-(



- c24(5s(<=" "Z=!&(6.(%=(6A8-G+9-(<="":293*53(M26-(6-7(:-97255-7(-3(6-(,*S*G4,,-(W.4((
*+92R-(32.3-7(647:27434257(*53A94-.9-7(82539*49-7(*.(:9A7-53(826-(n((
- c? [96255*58-(5s==Z





*O&#"S#"&)/O&(>C%*O! '\$,%I",%,O*(",%I'"\$O#"*/O&%,O*/)(">%"#8)/\$%"&%,O\$#"5+">I2/*%7%:;T;>%
+&"%')\$#/!'O\$#)&#"I",%')+4\$",%"#I",%' "\$,O&&",&%4+(&-\$)6(",%"&6-&-8/*/"&#%KL((
O*9*,V,-G-53(*. ;(-5R*R-G-537(453-95*3425*. ;g(,(M257343.3425(8257*89-(6*57(725(*9348,-("&((
,?.541-97*,43A(6.(69243(>(*(:923-83425(7284*,-(-5(8-7(3-9G-7/(9(2HI+*)#O&>%(2/&,#\$+*#/O&>%)%
8O\$!)#O&>%(%"#\$)4)/>%(%"(O."!"&#>%((",%(O/,/\$,>%(%),)&#-%"#"(")\$O#"*/O&%,O*/)(">%"*O&,#/#+"&#"I",%
I\$O/#,%\$"*O&&+,%'O+\$%#O+,KL%%
(

B' -!)58047-!6)7-!.!5)6&!6'!.)!*&48'58047!-450).!'

!

J?-G+,A-(*(.9*5R(6-7(*8W.47g(9*::-,257(W.-(+4-5(W.-(-X*,4(5?*43(:*7(9*34S4A,(*(M251-53425(
"=<(*62:3A-(:*9(,?[Q)(-5("B<(643-(k=47:'78047!5475'&7)78!.!)-95,&089!-450).!^74&;!
;070;;;<A!\$aN2!i(S4;*53(-7(#(+9*58@-7+(6-((7A8.943A(7284*,-(-3(A6483*53(6-7(529G-7((-3(2+a-834S7(
G454G*. ;(:2.9(8@*8.5-(6?-,-7g(4,(,-7(*::,4W.-((32.3-7(323*,-G-53(2.(:*934-,-G-53(>(?-;8-:3425(
6-(8-,-(9-,*341-(*(.8@`G*R-(C[J e JHcMOg(<="BE



Q,(S*.3(523-9(W.-(-,7(39*1*4,-.97(6.(7-83-.9(45\$29G-,(R9482,-(-3(525(*R9482,-g(6-7(:92\$-774257(
,4+A9*,-7(7253(*.32947A7(>7?*SS4,4-9(>(?T77.9*58-(G*,*64-(.541-97-.,-(:*9(,*8W.433-G-53(6-(
82347*34257(7284*,-7(-5(\$2583425(6.(541-*.(6-(9-1-5.(6A8,*9A'(_4g(,?2.1-93.9-(6.(8@*G:(:-97255-,(
)





c*(G2+4,47*3425(6-7(9-772.98-7(62G-734W. -7(-73(.5(72.84(G*a-.9(:2.9(-X*,4'(O2.9(8-(S*49-(
,?03*3*(45434A(-,O,*5(6?T834257(Y2.1-95-G-53*,(:2.9(,?TGA,429*3425(-3(*X26-9547*3425(6-(*
Y-73425(6-7(P45*58-7(O.+4W.-7(COTYTXHYPOE(W.4(8257343.-(-12,-3(jP45*58-7(O.+4W.-7k(6.(
O92R9*GG-(6-(JA1-,2:: -G-53(057343.34255-,(COJQE'(J*57(7*(<VG-(RA5A9*3425(82.19*53(*
:A9426-(<="=Z<="Bg(725(2+a-834S(-73(6-(: *91-549(>(.5-(G2+4,47*3425(G* ;4G*,-(6-7(9-772.98-7(
453-95-7(*1-8(.5-(R-73425(-SS484-53-g(6*57(-,-9-7: -83(6-7(649-8341-7(6-(,?b0X [T'((

T.(X*,4g(-,7(9-772.98-7(+.6RA3*49-7(253(A12,.A(>(.5(9N3@G-(:9-7W.- (9AR.,4-9(6-(<=" (>(<="&
:2.9(*33-4569-(<%g&"(D(6.(OQU(-3(.5-(G2N-55-(*55.-.,-(6-("Bg=<D(6.(OQU'(M-(541-*.(-73(,4A(
*(G*4534-5(6.(3*.;(6-(:9-77425(S478*,-(*.32.9(6-("Bg=D(1249-("Kg=D(GdG-(74(4,-73(45SA94-.9(*.(
7-.4,(72.@*43A(:*9(*529G-(82GG.5*.3*49-(5A8-7743*53(6-7(*834257(82589V3-7(*S45(6?A,*9R49(
,?*774-33-(S478*,-(:2.9(S45*58-9(-,7(45S9*739.83.9-7g(72.34-5(6-(32.3-(,?A8252G4-(-5(W.d3-(
6?AG-9R-58-'(05(-SS-3g(8-33-(3-56*58-(>,*(:-9S29G*58-(-73(,4A-(>,*(9AS29G-(9A8-53-(6-(
,?*6G454739*3425(S478*,-(W.4(*(:2.9(2+a-834S7(6-/(

2SS949(6-7(7-9148-7(:92S-774255-,7(6-(W.*43A(9A:256*53(*. ;(+ -72457(6-7(
825394+. *+,-7(n(

G26-9547-9(*6G454739*3425(S478*,-(n(

6A1-,2:: -9(.5(7N73VG-(6-(: *93-5*94*3(*1-8(-,7(825394+. *+,-7'(

c?A:*9R5-(5*3425*,-(-73(-734GA-(-5(G2N-55-(>"Ig&&D(6.(OQU(-539-(<=" (%>(<="Bg(8-(3*.;(
:9A7*R-(.5-(S*4+,-(G2+4,47*3425(6-(9-772.98-7(5*3425*,-7(*S45(6-(S45*58-9(-,7(451-73477-G-537(



- T&)7-('&8!6'-(476-!

c-7(\$2567(9-p.7(:*9(-X*,4(6-(?-;3A94-.9(6-(<="">(<=""&(2784,, -53(-5(G2N-55-(*.32.9(6-(KD(6.(OQU'(c-7(-51247(6-7(G4R9*537(8257343.-53(*R9*56-(:*934-(6-(8-7(\$2567(9-p.7(*1-8(-5(G2N-55-(Bg<%(D(6.(OQU'(T.39-G-53(643g(-7(G4R9*537(:*93484:-53(>(*\$29G*3425(6.(OQU(>@*.3-.9(6-(Bg<%(D'(X



c*(G47-(-5(^.19-(6-(,?T88296(:2.9(*O*4;(-3(* \ A82584,4*3425(*.(X*,4g(477.(6.(:928-77.7(6?T,R-9g(74R5A(>U*G*f2(,-("B(G*4(-3(:*9*8@-1A(-(<=(a.45(<="Bg(7-(:2.97.43(R9u8-(* . ;(-SS2937(825a.R.A7(6-7(O*934-7(G*,4-55-7(CY2.1-95-G-53g(M229645*3425g(O,*3-\$29G-Eg(*1-8(,* : : .4(6-(,*XA64*3425(453-95*3425*,-(W.4(-5(*77.9-(-7.414(6-(,*G47-(-5(^.19-(6*57(-8*69-(6.(M2G43A(6-(_ .414(6-(,?T88296(CM_TE'

05(G*34V9-(6-(9AS29G-7(:2,434W. -7(-3(457343.34255-,-7g(, -7(:94584:* . ;(3-;3-7(7.9(,*(6A8-539*,47*3425g(,*6G454739*3425(6.(3-9943249-(-3(,-7(A,-834257(253(A3A(9-,.7'(Q,(7?*R43(6-/(,* ,24(6A3-9G45*53(-7(8256434257(6-(,* ,4+9-(*6G454739*3425(6-7(M2,, -834143A7() -9943294*,-7g(,* ,24(:293*53(M26-(6-7(M2,, -834143A7(3-9943294*,-7g(,24(:293*53(_3*3.3(RA5A9*(, 6-7(\$25834255*49-7(6-7(



C4E(*9A@*+4,43*3425(6-7(



)94+ .5*(M299-834255-,(:2.9(,)*,,VR-G-53(6-(,*7*4745-(6-7(8*+45-37(6)45739.83425g(C444E,*G47-(-5(
:,*8-(6.(j(O92a-3(\ -6-1*+4,43A(O.+4W.-(-3(O*93484:*3425(6-7(P-GG-7(*.(X*,4(



AB!	92 : ;)*(*!(<),70 : ,7! +*)2).7+*7!NO- ,7!	T J J AV!	"%#!Q07+.1*!	\!		HB!		ABB c !



6-7(:.7(@*.3-7(*.32943A7'(M-,*(7?-73(39*6.43(6*57(-7(294-53*34257(:2,434W.-7(6.(09A746-53(6-(*
 \A: .+,4W.-(-3(6*57(-7(64SSA9-53-7(JA8,*9*34257(6-(02,434W.-(YA5A9*,-(6-7(09-G4-97(X454739-7'
 c-(092R9*GG-(6?b9R-58-(:2.9(-(\ -5S298-G-53(6.(_N73VG-(L.6484*49-(-3(6-(X47-(-5(} .19-(6-(
 ,?T88296(:2.9(*(:*4;(-3(*9A82584,4*3425(CObZ_LZX [TE(8257343.-(*7N53@V7-(6-7(*834143A7(
 : -9345-53-7(477.-7(6.(628.G-53(6-(:92a-3(6-(9AS29G-(6-(*a.7348-(-3(6-(,*6G454739*3425(
 :A543-534*49-'((c*(G47-(-5(^.19-(6.643(092R9*GG-(6?b9R-58-(7?-73(39*6.43-(:*9(.5-(7A94-(6-(
 9A*,47*3425(>39*1-97(-7(39247(82G:27*53-7(7.41*53-7/(

Z(*82572,46*3425(6.(:2.1249(a.6484*49-(-3(6-(,?03*3(6-(69243(:*77*53(:*9/(,*GA,429*3425(6-(
 ,?*88V7(>(*a.7348-g(-9-5S298-G-53(6-(*8*:843A(6-7(G*R4739*37g(-9-5S298-G-53(-3(*
 G26-9547*3425(6-7(457343.34257(:A543-534*49-7(-3(6-(,?A6.8*3425(7.91-4,,A-(n(

Z(*GA,429*3425(6-(*R2.1-95*58-(a.6484*49-/(,?453926.83425(6-(*(:,*54S48*3425(739*3AR4W.-(-3(
 6-(*R-73425(*;A-(7.9(-7(9A7.,3*37(*.541-*. (6-7(739.83.9-7(6-(*a.7348-g(-9-5S298-G-53(6-7(
 8*:843A7(6?451-734R*3425(6-7(-5W.d3-.97g(-9-5S298-G-53(6-7(*83-.97(6-(*8@*q5-(A5*,-(
 CG*R4739*37g(2SS484-97(6-(:2,48-(a.6484*49-g(*R-537(:A543-584-97g(R9-SS4-97H_-89A3*49-7(6-(R9-SS-g(
 9-:9A7-53*537(6-7(29R*547*34257(6-(*7284A3A(8414,-E(n(

Z



7+0<,. '3+7! .37+0.+7! 'b'3+! =' .+! 4K2;N*+! (*! (,1.7.23!		!					V!FBP!	
%20)1*3+'_*! (*!) , '4.7'+.23! (*7!) '<<2)+7! '330*47! 70)! 4'! 7.+0'+.23! (*7! ()2.+7! (*! T J J !AV! 4KZ2 : : *! d!) '37 : *+)*! '00! '_*31*7! (*7! 9 '+.237! f 3.*7!		"%#>Q07+.1*!	G330*44*!	WI!	WI!		! ! HI!	ABB!

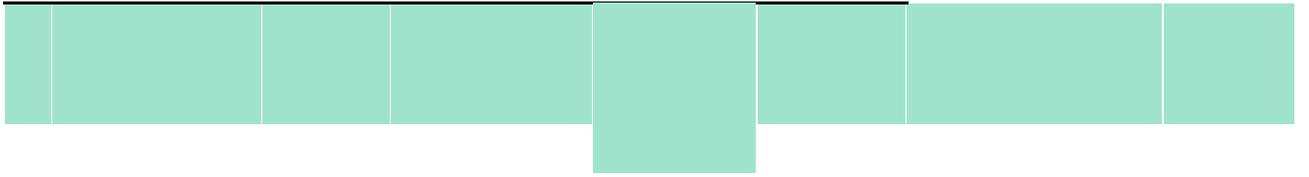
!
!
!

- ? --)070&'8!) ; 9.04&'&!.)!' -8047!6 ,!*)8&0 ; 407 '!6'!. [Q8)8!'8!6' -!)(()0&' -!(4750D&' -!

c-7(9AS29G-7(-539- :947-7(6*57(8-(62G*45-(7253(*;A-7(7.9/(C4E(,*GA,429*3425(6-(,]A1* ,.*3425(-3(
,]4GG*3948.,*3425(6.(: *394G245-(\$2584-9(6-(,]03*3(-3(,-(:928-77.7(6-(6AG*3A94*,47*3425(6-7(







AW.4,4+9A7(-3(45521*537'(_ .41*53(8-33-(6N5*G4W. -g(-Y2.1-95-G-53(6.(X*,4(-3(7-7(:*93-5*49-7(253(A,*+29A(-M*69-(_39*3AR4W. -(:2.9(* \ -, *58-(08252G4W. -(-3(-JA1-,2:: -G-53(J.9*+,-(CM \ O J J E(W.4(:293-(7.9(*:A9426-(<="#(x(<=<%(*1-8(6-7(845W(*; -7(739*3AR4W. -7g("#(2+a-834S7(R,2+* . ;(-3(BK(2+a-834S7(739*3AR4W. -7'(
(
M-(628.G-53(M*69-(.54W. -(6-(9ASA9-58-(6-7(:2,434W. -7(-3(739*3AR4-7(6-(6A1-,2:: -G-53(-3(6-(9A6.83425(6-(*(:*.19-3A(-73(>7*(IVG-(RA5A9*3425(6-(G47-(-5(^.19-(72.7(-7(45343.,A7(7.41*537(/(M*69-(_39*3AR4W. -(6-(c.33-(82539-(*O*.19-3A(CM_cO(<==<Z<==KEg(M*69-(_39*3AR4W. -(:2.9(*M92477*58-(-3(* \ A6.83425(6-(*O*.19-3A(CM_M \ O(<==&Z<=" "Eg(M_M \ O(<="<Z<="&(n(M \ O J J (<="KZ(<=" !(-3(-M \ O J J (<=" #Z<=<%'(
(
c? [+a-834S((-73(6-(092G2.1249(.5(6A1



T)>.'),!\$` !H!3&46,58047!59&9).0D&'!^'7!8477' -<

G33,*!	6.1!	Y2+'4!
HBAA`HBAH!	AW[A[WH!	IWWWHP!
HBAH`		



T)>.'), !2''!H! / 4>0.0-)8047!6' -!&' --4, &5' -!078' &7' -!

!!	\23(7!)*n07!3*+7!	\23(7!(*7! : .-) '3+7!	SJE!	G% J!	6*1*+*7! ;0(-,+'.) *7! +2+'4*7!	E<')-3*! 3'+.23 '4*!
HBAA!	]I[FVXI!	]A]F[A!	HVBF]VA!	HI [FX]B!	WWIFAB!	!
HBAH!	[BIFXI]!	]VWF]XB!	AX[FXWP!	]BIFBBB!	PA]F]!	!
HBA]!	[H]F[[I!	]W[FVIH!	AIBFVPA!	ABV]FBBB!	P[HFWB!	ABWPFHV!
HBA[!	[]]FVXW!	]WXFIPW!	WBFXB]!	ABH[FBBB!	X]IF]B!	ABXHFP!]
HBAI!	[VBFH]X!]B]FBVB!	AA[FAXI!	AB[XFBBB!	AA] [FAB!	XVVFWV!
HBAV!	[WAFVH!]X]FXPP!	AI]FWIP!	X] [FBBB!	AHP[FWB!	!
HBAW!	[XBFXP]!]HHP[V!]APF]]P!	!	HA]BFHB!	!
HBAP! !!	!!	!!	!	!	!	!



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