





**H478=I!\$JJ7;6:!( >KK;==44!**

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**">76L!>J!( 967=>6:!, 44=;5M!1! - N4<9=;04!+4::;>5!**

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**H478=I!\$JJ7;6:!( >KK;=44!1! - N4<9=;04!+4::;>5!**

@APGA!\$B , B! , 44=;5M!QR!;50;=7=;>5!J>6!=I4!'">76L!>J! ( 967=>6:F!264::L45=!75L!!  
.5=46<7KS9:!' 7<98=R! (>95<;8!!

!  
@CP@T!2B , B! 395<I4>5!QR!;50;=7=;>5!J>6!=I4!'">76L!>J! ( 967=>6:F!264::L45=F! 0454678!  
#JJ;<46:!75L!.5=46<7KS9:!=7JJ!\$L0;:>6R! (>95<;8! , 4KQ46:!

!  
!

CPAA!2B , B! %4<>50454L!29Q8;<!+4::;>5!

0454678!"9::54::!

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(>5:45=!\$M45L7!  
!

(>5:45=!\$M45L7!  
!

!







( >884<=4L!%984:!75L!

%4M987=;>5:!"454J;=!

2875:!

( I7S=46!UVAP!&4J45:4!75L!26>=4<=>5!

UVABCA! , 4L;<78F!26>J4:;>578!75L!27=;45=! 0 454678!3;7Q;8;=R!

\$! \$ 6=;<84!.P!&4J;5;=>5:!!W! \$ :!9:4L!I464;5P!

2875!

- KS8>R46!

.5X96R!

&7K7M4:!

(>0464L! 246:>5!

#<<96645<4!

.5<;L45=!



**2875!\*466;=>6R!**

\$6=<84!..P!-JJ4<=;04!&7=4!

\$6=<84!...P! (>0464L!246:>5:!







™ \$ :!9:4L!;5!=I;:!4N<89:;>5P!

[H7\76L>9:! S6>S46=;4: [!

[ / 9<8476!K7=46;78[!

[ +>96<4! K7=46;78[

[ +S45=! J948[!

[ ] 7:=4[!

[ / 9<8476!J7<;8;=R[!





**HB!**



3B!\$ 6=;<84! ^ ..P! , ;:<488754>9:!26>0;:>5:!

(>0464L! 246:>5` :!&9=;4:;!;5!=I4! - 045=!>J! #<<96645<4F! ( 87;K!>6!  
+9;=!





2875! (>5:;=9=>578;=R!







((((((((6733F. '790%5(SF. 73(, #- . /%0(%F(3&'I &(%'' &&90&#'(3%#KK&'&4(%&'?3(3F(%''#%(8F(?F'&(%''#8(F8&(
FG(%' &(%2F(&/&-%&4(? &?H&'3(27///H&(' &\$/#- &4(F'(' &&/&-%&4(78(#80(0&# '5((J' &(0&8#%&(
!''#7'\$&'3F8(3''#/(3&'I &(#3(%' &(%'7'4(? &?H&'(FG(%' &(8%&' -#?\$. 3(, #- . /%0(! F. 8-7/5(
!!!!T\$!!F' J L)/!; +' 5065N!FOJ J 6++33!/U!!
!!!!!!!!!! \$!B8637' 5(3! ?3/O\*)+605!>' 53\*!VB?>W(`(J''&(T#8&/3''#//(\$&'GF'?(%''&(' &3\$F837H77%7&3(
((((((((('\$ &3- '7H&4(H0(%'' &! F//&-%&4(Q. /&3(#84(Q&K. /#%7F83(FG(%'' &(R87I &' 37%0(FG(6733F. '7(
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(((((((((\$'FH/&?3(FG(? . % . #/(-F8-&'8(%F(%" &(R871 &'37%O(FG(6733F. '790%(SF. 73(#4?7873%' #%F85(  
A\$!!!&=F4<GH!; AD=GAI!@&!GXA!4DECA?; EGH!@&!9E; ; @4?E:; G\$!<@4E; (  
MF&' &78#G&'(' &G&' &4(%F#3(O&8#%&N(  
: 5((?3/LO5/6K6\*6+63/9(J" &(, #- . 1%O(O&8#%&73(%" &(/&K73/#%7I &(#84(\$F/7-09? #U78K(HF40(FG(%" &(   
((((, #- . 1%O5( (%-#''7&3(F. %(%" &' &3\$F837H77%7&3(FG(%" &(, #- . 1%O(1B&&(R6(003%&?) \*\*5\*D\*(15)N(  
((((8F%(' &3&'I &4(HO(%" &(, #- . 1%O(#3(#(HF40(F'(3\$&-7G7-#1/O(4&/&K#%&4(%F(%" &(R871 &'37%O(>33&?H/O(  
((((MO&-7F8)\*\*



((( '&-F??&84#%F8(%F('%&! "#8-&F'5(  
(((M@N(T'F?F%F8('&-F??&84#%F83(21/(H&(?'#4&(78#--F'4#8-&(27%'(\$'F-&4. '&3(4&%&'?78&4(  
(((HO('%&! F??7%&&E(-F8373%&8%(27%'('%&! "#\$%&\$' ) \*#\$(, -' )\$. \*#, &/' -+('0(&1\$(2-/3\$4+&5(''0(  
(((6/++"\*4/5(  
(((M)N(J" &(-F??7%&&(3" #/(. 3&(3%#84#' 43(-' &#%&4(HO('%&(#-#4&?1-(. 87%3(#84(3" #/(8F%(-' &#%&(   
(((#447%F8#/-#?\$. 39274&(3%#84#' 435(  
(((M)N(\_%3" #/(H&('%&'&'&3\$F837H17%O(FG(%'73(! F??7%&&E(%FK&%'&'(27%'('%&(#\$\$'F\$'7#%&(   
(((#4?7873% #71 &(FGG7-&'3E%F(&3%#H/73"E(4&1 &/F\$E(#84(?#78%#78(78(#/(#&#3(FG(%'&(R871 &'37%O(  
%'&'7K"&3%(3%#84#' 43(FG(G#-. 7%O(Y. #7%O5(  
1\$!!FOJ J 6++33!05!73/3' 8(2(9(J" &! F??7%&&(3" #/(-F8373%(FG(%2F(\$#8&/3E(F8&(?'&&%78K(78(  
!!!('%&(G#/(3&?&3%&'(#84('%&(F%'&'(?&&%78K(78('%&(3\$'78K(3&?&3%&'5(  
(((M: N(J" &, #/(#84(0\$'78K(\$#8&/3(3" #/(?'&&%78('%&(G#/(%F(&/&-%#(-F??7%&&(-" #7' \$&'3F8(  
(((GF'(&#-'"(\$#8&/E%F(-/ #'7G0(\$'FK' #'?(FHd&-71 &3E%F(-FF' 478#%&(4&#478&3E(#84%F(3&%(  
(((K. 74&/78&3(GF'('&3&#'-'"(\$'F\$F3#/3(#84(#2#' 435(J" &'&#G%&'E('%&(\$#8&/3(3" #/(?'&&%(  
4. '78K('%&'7'(3&?&3%&'(FG(3&'17-&%F(#4173&(784(?#U&('&-F??&84#%F83(F8+(  
(((((((M#N(! F?\$&%7%F83(GF'(78%&'8#/(K' #8%G. 843E(78-/ . 478K(G78#8-7#/(3. \$\$F'(%4. '78K('%&(  
(((((((3. ??&'(#84(4. '78K('&3&#'-"/&#1 &3E(3. \$\$F'(%GF'('&3&#'-"/&#33/79T8. 3(. )79(1)-4. 6(&)89T40(&)-2('7)

[!F0J J 6++33!05!/?3/3' 8(2!>0\*(, (9J''&! F??7%%&&(F8(Q&3&#-'-(TF/1-0(3''#11(H&((  
!!!!' &3\$F837H/(&GF('&-F??&8478K(#84('&17&278K(\$F/1-0(78('%&#&#3(FG(' &3&#-'-(#84(  
((((' &3&#-'-(#4?7873%' #F85(  
Z\$!=( ' 03J 6(!=076/08, !FOJ J 6++33(9J''&! F??7%%&&(3''#11(' #1&('%& &(K&8&' #/(  
!!!' &3\$F837H/77%O(FG(? #U78K(' &-F??&84#F83(%F('%& &(e7-&! " #8-&11F' (GF'(>-#4&?1-(  
(((>GG#7' 3(F8(#-#4&?1-(733. &3(#GG&-78K('%& &(R87I &' 37%OE(78-/. 478K(' &-F??&8478K(K&8&' #/(  
((((\$F/1-7&3(#84(\$'F-&4. ' &3(KF1 &' 878K('%& &I #/. #F8(FG(#-#4&?1-(783%' . -7F8(#84(  
(((#4173&? &8%  
\*\$(FOJ J 6++33!05!-, \* . /! 50!?) \*3/!108!+23!&' ( ) \*+, !; 35' +3! 50!456738/6+, !=//3J K\*, ( ( (  
((J''&! F??7%%&&(3''#11+((  
(((M: N(Q&-87I &(#11(\$'F\$F3#13(GF'(-" #8K&3(%F('%& &(10/#23(#84('%&! F//&-%&4(Q. /&3(#84(Q&K. /#F83E(  
((( ' &17&2(\$'F\$F3&4(-" #8K&3(%F('%& &(10/#23(#84('%&! F//&-%&4(Q. /&3(#84(Q&K. /#F83E(#84(7877#%&(  
(((%' &(\$'F-&33(FG(10/#23(-" #8K&3(#3?FF%" /0(#84(78G' &Y. &8%#0(#3(\$F337H/85(  
(((M@N(Q&-F??&84(78%&' \$' &%#F8(FG('%& &(10/#23(#84(! F//&-%&4(Q. /&3(#84(Q&K. /#F83E. \$F8('%& &(  
(((2' 7%&8(' &Y. &3%(FG('%& &(O&8#%&(! " #7' \$&' 3F8E(#84(' &\$F' %7%3(-F8-/. 37F83(%F('%& &(O&8#%&5(  
(((M)N(! F? \$7/(&#84(? #78%#78(#(-. ' &8%(3&%(FG(O&8#%&(#84(>33&? H/O(^ \$&' #F8K(Q. /&3E(  
((( -F8374&'(-" #8K&3(78(^ \$&' #F8K(Q. /&3E(#84(' &\$F' %' &-F??&84#F83(' &K# 478K(  
^ \$&' #F8K(Q. /&3(%F('%& &(O&8#%&5(  
J \$!FOJ J 6++33!05!/?3/3' 8(2!96/(050) (+9J''&! F??7%%&&(3''#11(\$&'GF'?('%& &(' &3\$F837H/77%7&3(  
!!!\$' &3-'7H&4(HO('%& &! F//&-%&4(Q. /&3(#84(Q&K. /#F83E(FG('%& &(R87I &' 37%O(FG(  
(((6733F. '7(MD@\*5\*: \*NE(aQ&3&#-'-(673-F84. -%5c(  
5\$!FOJ J 6++33!05!E//) 3/!01!G35)83!/?3J 07' \*9J''&! F??7%%&&(3''#11(-F84. -('%& #'78K3(78(  
!!!&? F1 #/(-#3&3(F'78(473\$. %&4(-#3&3(781F/178K(%&8. ' &('7K''%3(#84(3%#%. 3(#3(\$'F174&4(GF'78(  
(((%' &(>-#4&?1-(J&8. ' &(Q&K. /#F83E(FG('%& &(R87I &' 37%O(FG(6733F. '75(J''73(-F??7%%&&(73(  
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(((: 5(





(((((((#?&84?&8%3(F'(?F47G7-#%7F83(3"#!/H&(\$'&3&8%&4(HO%'&(!"#8-&//F'('%''F.K''('%&(T'&374&8%  
%F('%&(1F#'4(FG(!.'#%F'3(GF'(7%3(#\$\$'FI#/(H&GF'&(H&-F?78K(&GG&-%7I&5(  
(((@5(0&8#%&(^\$&'#%78K(Q./&3(?#0(H&(#?&84&4(HO(?#dF'7%0(IF%&(FG('%&(0&8#%&5(  
(((()5(>33&?H/O(^\$&'#%78K(Q./&3(?#0(H&(#?&84&4(HO(?#dF'7%0(IF%&(FG('%&(>33&?H/O5(  
(



-N=46578!\$JJ7;6:F! , 76a4=;5M!75L!\$L075<4K45=!( >KK;=44!  
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(>KS45:7=;>5!75L!H9K75!%4:>96<4:!( >KK;=44!

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..B! &4J;5;=>5!

!

...B! -8;M;Q;8;=R! ! ! ! ! ! ! ! ! !





!"1%&'(0"1#"5\*+,\*7+8#4#%'9\*3&(#48%\*:;,:;9\*0"1\*<%"#+&#( )

^B! +460;<4!<64L;=!

^ .B! \$SS8;<7=;>5!;5!=I4! - 045=!>J!&;:<>5=;5975<4!>J!26>M67K:;!>6!&4S76=K45=:!>J!  
.5:=-69<=;>5!

^ . .B! - JJ4<=;04!L7=4!

(>84<=4L!%984;!75L!%4M987=;>5:!  
246:>5548!  
( I7S=46!GTAP!37Q>6!2>8;<R!  
!



GTABATA!37R>JJ!

!



(>84<=4L!%984:!75L!%4M987=>5:!!  
246:>5548!  
( I7S=46!GUAP! - KS8>R44! \$Q:45<4:!  
GUABAGA!+;<a!34704!

**&B! +4S767=;>5!>J! - KS8>RK45= (**

**- B! %4=;64K45=**

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**( >884<=4L!%984:!75L!%4M987=;>5:!!  
246:>5548!  
( I7S=46!GUAP! - KS8>R44! \$ Q:45<4:!  
GUABA?A!246:>578!&7R:!**

**\$B! - 8;M;Q84! - KS8>R44:**















(>KS45:7=;>5!75L!H9K75!%4:>96<4:!( >KK;=44!1! - N4<9=;04!+4:;>5!  
!

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C c

0454678!"9::54:!!  
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