



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

!

!

!

!

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

# H"#V+ (% ( 3 , + # 5 / 2 << 0 % G 0 8 #

! . / 0 8 0 ' ; , + 0 8 0 + & ( ' 2 + + ( \* % & 8 @ ( ' 2 4 ( \* & P 0 = 0 ' + 0 % & ( @ 1 : Q I ) ' , ; 0 % 4 6  
& / 0 B / ( < 0 8 2 < 0 2 % ) ' 0 & 2 , < 8 \* 4 8 0 + & ( ' 8 > H 0 = 0 ' + 0 % & ? J @ ( << ( B 0 ) 4 6  
& ' 2 % 8 = ( ' & 2 & , ( % J 8 & ( ' 2 G 0 J + ( 3 3 \* % , + 2 & , ( % 8 2 % ) & ( \* ' , 8 3 W , % ) \* 8 & ' 6  
+ ( % & ' , 4 \* & 0 ) < 0 8 8 & / 2 % H I = 0 ' + 0 % & ( @ 1 : Q @ ( ' & / 0 < 2 8 & ) 0 + 2 ) 0 "

! R G ' , + \* & \* ' 0 G 0 % 0 ' 2 & 0 8 2 4 ( \* & D 0 = 0 ' + 0 % & ( @ / ( \* 8 0 / ( < ) , % + ( 3 0 2 % )  
= ' ( ; , ) 0 8 < ; 0 < / ( ( ) 8 @ ( ' D I = 0 ' + 0 % & ( @ & / 0 < 2 4 ( \* ' @ ( ' + 0 "

! = ' ( ) \* + & , ; , & 6 , 8 < ( B 2 % ) ; \* < % 0 ' 2 4 < 0 & ( B 0 2 & / 0 ' 0 ; 0 % & 8 2 % ) + < , 3 2 & 0  
+ / 2 % G 0 "

! 9 , 3 , & 0 ) 8 & ' \* + & \* ' 2 < & ' 2 % 8 @ ( ' 3 2 & , ( % ) \* 0 & ( 2 4 8 0 % + 0 ( @ ' 0 < , 2 4 < 0 2 % )  
2 @ @ ( ' ) 2 4 < 0 0 % 0 ' G 6 J 8 \* 4 - ( = & , 3 2 < & ' 2 % 8 = ( ' & , % @ ' 2 8 & ' \* + & \* ' 0 W < ( B  
X \* 3 2 % 5 2 = , & 2 W 2 % ) < 2 + U ( @ , % + 0 % & , ; 0 8 @ ( ' 0 3 0 ' G , % G 8 0 + & ( ' 8 8 \* + / 2 8

# 5 (%&"

! . /0 @(' 32< 80+&(' 2++(\*%&8 @(' <088 &/2% !! =0' +0%& (@ 03=<(630%&J  
+(%+0%&'2&0) ,% G(;0'%30%& ,%8&,&\*&,(%8 2%) 2 <,3,&0) %\*340' (@  
'0G,8&0'0) =',;2&0 0%&0'=' ,808"

! . /0 %(%2G',+\*&\*'2< ,%@(' 32< 80+&(' 03=<(68 PH"F =0' +0%&J ,%+<\*) ,%G 2  
32Y(' ,&6 (@ B('U,%G-2G0 B(30% >DE"F =0' +0%& +(3=2'0) &(00"E =0' +0%&  
@(' 30%?"

! R4(\*& 2 &/,') B('U ,% >3 (8&<6 <(B 8U,<<0)? B/(<082<0 2%) '0&2,<&'2)0WE!"  
=0' +0%& ,% 2G',+\*&\*'0J @('08&'6 2%) @,8/,%GWF"E =0' +0%& ,% 32%\*@2+&\*',%G  
2%) 0"H =0' +0%& ,% +(%8&'\*+&,(%"

! . /0 =',;2&0 80+&(' 8=2+0 ,8 +\*'0%&<6 ) (3,%2&0) 46 3,+ '(0%&0'=' ,808W ZD  
=0' +0%& (@ 2<< 4\*8,%08808 /2;0 @0B0' &/2% @,;0 03=<(6008" . /0 <2+U (@  
2@@(')24<0 +'0),& 2%) 80'; ,+08 2%) (@8U,<<0) <24(\*' 2))8

E"#K00)#@(' #2#K2&, (%2<#: 0; 0<(=30%&#  
Q<2%

! \$% &/0 )0; 0<(=30%& (@ &/0 +\*' '0%& K2&, (%2<  
: 0; 0<(=30%& Q<2% >HI !F-HIH!?) . /032&, + [ ('U,%G  
1' (\*=8 >. [ 18? B0'0 08&24<,8/0) 2%) =' (;,)0) B,&/  
G\*,)0<,%08 &( 0%8\*'0 &/2& &/0 =<2% B28 '0@0+&,; 0 (@&/0  
\K0B 1234,2]"

! . ( (;0'800 &/0 =<2% ='0=2'2&, (% =' (+088J 2 K2&, (%2<  
: 0; 0<(=30%& Q<2% Q(<, +6 M&00',%G 5(33,&&00 B28 80&  
\*= 2%) +(3=' ,80) (@ Q0' 32%0%& M0+'0&2',08 ,% U06  
^ ,%,8&' ,08

! Q<2% ='0=2'2&, (% 2%) ; 2<,) 2&, (% B28 &/' (\*G/ 2 ' ,G(' (\*8  
2%) 4' (2) =2' &, +, =2&('6 =' (+088 ,%; (<, %GJ 23 (%G  
(&/0' 8&0=8\_

E"#K00)#@(' #K2&, (%2<#: 0; 0<(=30%&#  
Q<2%

! R 5(33 (% 5 (\*%&'6 R8808830%& + (%)\*+&0) ,% HI! 0

! MO&&, %G \*= (@ . /032&, + [ ('U, %G 1' (\*=8J + (%8\* &2&, (% B, &/ U06  
8&2U0/ (<) 0'8 2%) 0<24 ('2&, (% (@2)'2& =<2%"

! R ) (%(' + (%8\* &2&, (% @(' \* 3

! R %2&, (%2< ; 2<,) 2&, (% B('U8/ (= B, &/ 2 4'(2) 8=0+&' \* 3 (@&/0 8&2U0/ (<) 0'  
+(33 \*%, &6W

! S', 0@, %G` + (%8\* &2&, (%8 B, &/ &/0 K2&, (%2< R88034<6 30340'8





N"#Q (; 0' &6#+ (%&"

! ./0 1234,2 '2%U8 80;0%&/ 23 (%G +(\*%&',08 B,&/ &/0 6(\*%G08&  
=(=\*<2&,(%8W /2<@ (@

0"#RG' ,+ \* & \* ' 0#

! RG' ,+ \* & \* ' 0 ,% . / 0 1234,2 ,8 + / 2' 2+ & 0' ,a0) 46 8\* 48,8&0%+0 @ ( ( ) + ' ( =  
+ \* & , ; 2& , (% J < , ; 08& (+U ' 02' , %G 2%) 803 , - + ( 3 30' + , 2 < + 28 / + ' ( =  
= ' ( ) \* + & , (% " . / 0 32 , % + ' ( = 8



0"#RG' ,+ \* < & \* ' 0#+ (%&W

! \$% 8\* 332'6 HI!F`!Z &(&2< G'2,% =' () \*+&,(%  
+2% 300& (%<6 0ld (@ &/0 %2&,(%2<  
'0g\*,'030%& B,&/ 80;0',&6 (480';0) @(' ',+0  
300&,%G (%<6 !0d" ./,8 ,8 2 ;0'6 =0'&,%0%&  
@(( ) 80+\*' ,&6 ,88\*0 ,% +( %8,)0'2&,(% &/2& FI  
=0'+0%& (@ &/0 32,% 8(\*'+08 (@ &/0 @(( )  
+(%8\* 30) 46 '\*'2< /(\*80/(<)8 ,8 (4&2,%0)  
' (3 &/0,' @2'3 =' () \*+0 2%) (%<6 HI =0'+0%&  
,8 (4&2,%0) '@ (3 ,3=( '&8"

# 0"#RG',+\*<\*'0-9,;08&(+U#

- ! ./0 '02',%G (@ +2&&<0 2%) 832<< '\* 3,%2%&8 '0='080%&8 2% ,3=('&2%& '(<0,% &/0 <;0</(( )8 (@ (\*' '\*'2<0+(%(36" ./0 07&0%8,;0 '\* 3,%2%& =')\*+&,(% 868&038 2'0 ='0)(3,%2%&<6 )0=0%)0%& (% 32'G,%2< G'2a,%G 2'028 28 &/0,' 32,% 8(\*'+0 (@@00)"
- ! ./0 1234,2 @2+08 3\*&,<=0 8&'088('8 8\*+/ 28 +<,32&0 +/2%G0 ;2',24,<,&6J =' (<(%G0) )'6 8028(%J 2%) )0+'0280) 2++088 &( g\*2<,&6 @('2G0 '08(\*'+08J 4\*8/@,'08 2%) 0%+'(2+/30%& 46 +' (= +\*&,<2&,(% " ./080 /2;0 @2'-'02+/,%G +(%80g\*0%+08 @(' 2%,32< =' )\*+&,(% 2%) =' )\*+&,<,&6 8\*+/ 28 <(88 (@ B0,G/&J '0=' )\*+&,<0 B28&2G0 2%) 3 ('&2<,&6"
- ! \$% 2<<8\*' ;060) 2'028J 3 ('0 &/2% 0I =0'+0%& (@/( \*80/(<)8 ,%),+2&0) 2 )0+'0280 ,% <;08&(+U =' )\*+&,<,&6" ./0 )0<26 ,% 8&2'& (@ '2,%8 2%) '0)\*+0) 23 (\*%&8 %0G2&,<0<6 ,3=2+&0) (% &/0 4,(3288 6,0<)8 (@ =28&\* '08 2%) g\*2%&,&6 (@ B2&0' ,% &/0 %2&\* '2< B2&0' +2&+/30%& =(,%&8

P"#T ( () #MO+ \* ' ,&6

! . /0#HI ! F` ! Z#='0

P"#T ( ( ) #MO+ \* ' ,&6#+ (%&"

! ! "#\$%&\$#%"#%() ) \*%, -#./ \$#%0#) 01#2%



P"#T ( ( ) #M0+ \* ' ,&6#5 (%&"#

! 4)5 6&,7 0#)01# &\$# ( ) ) \* - +, -#./ \$#2 R& &/0 '0G,(%2< <0;0<J &/0  
2%2<68,8 (@ @ ( ( ) ,%80+ \* ' ,&6 \*8,%G 5Rc\$

# T ( () #80+ \* ' ,&6#+ (%&W

! : ) ) \* M ( \* ' +082 R8 2 '08\* & ( @ &/0 + (%&, %\*0 ) )0+<, %0 ,% @ ( ()  
= ' ( ) \* +&, ( % ) \* 0 & ( &/0 = ( ( ' '2, %@2<< =2&&0' % ( ; 0' &/0 <28&  
&/'00 & ( @ ( \* ' 602'8"

! \$& ,8 ,3 = ( '&2%& & ( ,%; 08&, G2&0 &/0 8 ( \* ' +08 ( @ &/0 32, % @ ( ()  
+ (%8\* 30) 46 / ( \*80/ (<)8" DZ"Pd ( @ / ( \*80/ (<)8 '0 = ( '&0)  
2G' ,+ \* &\* '0 28 &/0, ' 32, % 8 ( \* ' +0 ( @ @ ( () 2%) HI "Nd @' (3  
32' U0&8"

! S' ,U232 '0 = ( '&0) &/2& 0Zd ( @ &/0 / ( \*80/ (<)8 32, % 8 ( \* ' +0  
( @ @ ( () B28 @' (3 ,3 = ( '&8J B/ ,<0 ,% ^ 2%82U (%U ( ,& B28 ENd"  
V7+0 = & @ ( ' S' ,U232J 2<< &/0 ( &/0' '0G, (%8 8&2&0) &/0 32, %  
8 ( \* ' +0 ( @ &/0 @ ( () &/06 + (%8\* 30) B28 + (3, %G @' (3  
2G' ,+ \* &\* '0" \$% f\* %&2\* 'J ZPd ( @ &/0 / ( \*80/ (<)8 82, ) &/06  
+ (%8\* 30) @ ( () @' (3 2G' ,+ \* &\* '0 B, &/ S2880 >ZE"! d?J  
h2%Y2%4 \* '0 / >ZI "N d? 2%) S' ,U232 >N! d?"

D"#c \* ' 2<#: 0; 0<(= 30%&

! 1,; 0% &/0 (== ('&\*%,&,08 ,% &/0 2G' ,+\* <&\* '2< 80+&(' @(' G'02&0' 03=<(630%& +'02&,(%J ,%+'0280 ,%+(308J G'02&0' 07=( '& 02'%,%G8J 2%) @(( ) 80+\*' ,&6 2%) (% &/0 (;0'2<< ',80 ,% &/0 8(+,(-0+(%(3,+ B0<@2'0 (@ &/0 =(\*<2&,(%J &/0

D#c \* ' 2<#: 0; 0<(= 30%&#5 (%&"

! \$% ' \* ' 2< 1234,2J 5((=0'2&;08 2'0 @(\*%) &( 40 &/0 <2'G08&  
( 'G2%,a2&,(%J 2% 2\*&%(3(\*8 288(+,2&,(% (@ =0'8(%8 \*%,&0)  
; (<\*%&2',<6 &( 300& &/0,' +(33 (% 0+(%(3,+J 8(+,2< 2%) +\* &\* ' 2<  
%00)8 2%) 28=,'2&,(%8 &/' (\*G/ 2 Y(,%&<6 (B%0) 2%) )03 (+ '2&,+2<<6  
+ (%&' (<<0) 0%&0'=' ,80" Q',32',<6J &/0'0 2'0 @(\*' 32,% &6=08 (@  
+ ((=0'2&;08 ,% &/0

D" c \* ' 2 < # : 0 ; 0 < ( = 3 0 % & # 5 ( % & "

! . ' 2 % 8 @ ( ' 3 2 & , ( % ( @ 2 G ' , + \* & \* ' 0 @ ( ' ' \* ' 2 < ) 0 ; 0 < ( = 3 0 % & + 2 % % ( & 4 0 ) ( % 0 B , & / ( \* & 0 @ @ 0 + & , ; 0 = 2 ' & , + , = 2 & , ( % ( @ @ 2 ' 3 0 ' 8 B / ( @ ( ' 3 & / 0 = ' , 3 2 ' 6 = , << 2 ' 2 8 ; 2 < \* 0 + / 2 , % 2 + & ( ' 8 - / 0 % + 0 & / 0 % 0 0 ) @ ( ' @ 2 ' 3 0 ' < 0 ) 8 & ' ( % G ; , 2 4 < 0 2 % ) ; , 4 ' 2 % & + ( ( = 0 ' 2 & , ; 0 8 "

! . / 0 ^ , % , 8 & ' 6 ( @ R G ' , + \* & \* ' 0 & / ' ( \* G / & / 0 [ ( ' < ) S 2 % U 0 8 R G ' , + \* & \* ' 0 j 2 < \* 0 5 / 2 , % : 0 ; 0 < ( = 3 0 % & Q ' ( Y 0 + & J T ( ( ) 2 % ) R G ' , + \* & \* ' 0 i ' G 2 % , a 2 & , ( % 0 8 R G ' , + \* & \* ' 0 @ ( ' V + ( % ( 3 , + 1 ' ( B & / Q ' ( Y 0 + & ) 0 + , ) 0 ) & ( + ( 3 3 , 8 8 , ( % 8 & \* ) , 0 8 ( % & / 0 ' 0 ; , & 2 < , a 2 & , ( % ( @ + ( ( = 0 ' 2 & , ; 0 8 & ( 0 % / 2 % + 0 = ' ( ) \* + & , ( % 2 % ) 3 2 ' U 0 & , % G ( @ 2 G ' , + \* & \* ' 2 < = ' ( ) \* + 0 " . / 0 8 & \* ) , 0 8 , % + < \* ) 0 A Q ( < , + 6 T ' 2 3 0 B ( ' U @ ( ' c 0 ; , & 2 < , a 2 & , ( % ( @ 5 ( ( = 0 ' 2 & , ; 0 8 e . / 0 c ( 2 ) & ( 5 ( 3 3 0 ' + , 2 < , a 2 & , ( % ( @ R G ' , + \* & \* ' 0 C 2 % ) A \$ % 8 & , & \* & , ( % 2 < R 8 8 0 8 8 3 0 % & ( @ R G ' , + \* & \* ' 2 < 5 ( ( = 0 ' 2 & , ; 0 8 , % . / 0 1 2 3 4 , 2 C "

C\* '2<#: 0; "#5 (%&"#

! ./0 1234,2 9,;08&( +U ^2'U0&,%G RG0%+6 >19^R? +2'',0) (\*&  
+ (%8&' \*+&,(% 2%) '0/24,<,&2&,(% B('U8 (@07,8&,%G 2%) %0B 8<2\*G/&0'  
@2+,<,&,08 2%) <;08&( +U 32'U0&8 &( 0%8\*'0 &/2& &/06 300& K2&,(%2<  
@ ( ) 82@0&6 2%) k((-82%,&2'6 8&2%)2')8 8\*+ / 28 &/0 + (%8&' \*+&,(% 2%)  
'0/24,<,&2&,(% (@ &B( 2%) @(\*' 8<2\*G/&0' /(\*808 ,% 1\*%Y\*' 2%)  
h2%Y2%4\*'0/

! ./0 ^,% ,8&'6J &/' (\*G/ T( ) 2%) RG',+\* <&\* '0 MO+&(' : 0; 0<(=30%&  
Q'(Y0+& >TRM: VQ? )0; 0<(=0) 2)),&,(%2< HI I U3 @00)0' '(2)8 &(   
0%/2%+0 2++088 &( 32'U0&8 @(' 2G',+\* <&\* '2<=' ( ) \*+0"

! ./0 1234,2 92%) 2%) [ 2&0' ^2%2G030%& Q'(Y0+& > 2<8(  
)0; 0<(= 2)),&,(%2< !H2++08)

D"#c \* ' 2<#: 0; #5 (%&"

! : \*',%G 15Rj =' (Y0+&08 <,@0 +6+<0 \*= &( )2&0 2 &(&2< (@HJ0I I  
X2 (@&,) 2< ,'',G2&0) ',+0 8+/030 /28 400% '0/24,<,&2&0)" \$%  
2)),&,(% &( &/0 HJ0I I X2 '0/24,<,&2&0) &( ,3=' (;0





F"#c0+(330%)2&,(%"

! : 0;0<(= &/0 ;2<\*0 +/2,%8 2%) +(330'+,2<a2&,(%\_ +' (=8J

c0+ (3 30%) 2&, (%#+ (%&"

! 1 (. 1 2%) ,&8 =2'&%0'8 &( ,%+'0280 8\*== ('&