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52728)(2*1234*

96!365:*5;<!*28=k=2)4*

>8&?4%&)\$*"A*B4@)4%8*C8)2%&"D**5:(" "3*"A"! " 7 7E8&:2)&"8*5: &48:4@*28=*F&@ "%=4%@*

*

G(&@*:%&)&:23%4?&4H*4I27 &84@*)(4*4?&=48:4*E% "E8=&8'*)(4*J484A&@*"A*" "A2:&23*7\$ "AE8:)&"823*
(4%2#\$*&8*:(&3=%48*H&)(* "J@)%E:)&?4* @344#*2#842*KC5LM6* L*3k)4%2)E%4* @42%:(*%4@E3)4=* &8* A"E%*
%434?28)*2%&:34@0*&8:3E=&8 '*2*%28=" 7 &N4=*:"8)% "3*)%&230*)H"*%4)% "@#4:)&?4*: (2%)*%4?&4H@0*28=*2*
#% "@#4:)&?4*:2@4*:"8)% "3*E=\$6*L%&:34@*H4%4*2##%2&@4=*J2@4=*"8*=4@&'80*74)("=@0*2823\$@4@*28=*
=4'%44* "A* :3&8&:23* %434?28:46* C?4%2330* 233* @)E=&4@* #%" ?&=4=* 4?&=48:4*)(2)* C 9 G* @("E3=* J4*
:"8@&=4%4=*2@*28*2=0E8:)*%42)748)*""28*2=48)"8&&334:)" 7 \$0*H(&:(*&@*)(4* :E%&48)*@)28=2%="A*
:2%4*A"%*7 " @)*:(&3=%48*H&)(*C5L6**

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

*

CJ@)%E:)&?4* @344#*2#842*KC5LM* &@*2*:"8=&)&"8*H(4%4*#2%)*
"%*233*"A*)(4*2&H2\$* &@*J3":P4=*E%&8 '* @344#0*4@E3)&8 '*&8*
7E3)"*(\$#" I&:*4?48@*)(%"E' ("E*)(4*8&' ()*KQ28@2' %2*
R*S2E' (80*,-.TM6*C5L* &@*:" 7 7 "83\$=*&2'8" @4=*H(48*)(4*
:(&3=* (2@*"84*" %*7 "%4*(\$#" I&:*4?48@)*28*("E%0*:" 7 J&84=*
H&)(* @ \$ 7 #)" 7 @* "A* @344#U=&@ "%=4%4=* J%42)(&8 '* K5FVM*
KWE&3347 &82E3)* 4)* 2360* ,-.TX* S &332* 4)* 2360* ,-.YY* S &3320*

)%42) 748)* "A* C5L6* 5)E=440* H4%4* 3k 7k)4=*) " #4=2k)%k: *
@EJ04:)@K=4A&84=2*2)* "%E8=4%*) (4*2' 4*'A* . -M*H ("H4%4*
8") * "J4@40* 28=2*)k: 34*) (2)* 4?23E2)4=*) (4* 4AAk: 2: \$* "A*
4I)4%823*2@k@k?4?4?4?k: 4@%k&46*28*"%23=4?k: 4*H""%8=E%k8' *
@344#H*H4%4I: 3E=4=6**
*

F2)2* ! "334:)k"8*
G(4*%4@E3)@* "A*)(4*3k)4%2)E%4* @42%: (* \$k43=4=* A"E%* @)E=44@*
(2)* 74)*k8: 3E@k"8*: %k)4%k2)* "84*%28=" 7 kN4=*: "8k)"3*)k230*
)H" %4)%"@#4:)k?4*: (2)%4?k4H@0*28=* "84*#%"@#4:)k?4: 2@4*
: "8)"3* @)E=\$6**
*

2- / '3#/'

, : "8=E:)4=* 2* %4)"@#4:)k?4*
(2)%* %4?k4H* K34?43* "A* 4?k=48: 4* d* , !M* =4@k'84=*)" *
4?23E2)4*) (4* k 7#2:)* "A* C 9 G* "8* "%A2: k23* 7E@: 34*
H42P84@* A"33"Hk8' * @E%"k: 23* KLRGM* 28=* "%) ("="8)k: *
k8)4%?48)k"8@* A""* @344#* =k@%"=4%4=* J%42)(k8'6* ! (k3=448*
2'4=*T6e*U*ee*2)*k8k)k23*?k@k*) (2)* 74*233*k8: 3E@k"8*: %k)4%k2*
28=*H ("@4*: (2)%* (2=*84: 4@2%\$A"33"HUE#*k8A"7 2)k"8*
H4%4* k8: 3E=4=* k8*) (4* @)E=\$* K8* d* , YM6* f "33"Hk8' * LRG*
28=g" "%#232)23*4I#28@k"80*#2)k: k#28)*Hk) (%4@k=E23* C5L*
H4%4* %4A4%4=*) " * "%) ("="8)k: : 2%4* 28=*)" * C 9 G* . . *
: (k3=%48%4: 4k?4=* C 9 G*28=* . T*=k=*8")6**
*

>@4*"A* C 9 G* J\$* @EJ04:)@H2@*=" : E 748)4=*2@* : " 7 #34)4=*
2@* #4%* %4: " 7 748=2)k"8@* "%* 8")* A"33"H4=0* 28=* @EJ04:)@*
H4%4* 4?23E2)4=2)* A"33"HUE#*)H" * \$42@* 28=* A"E% \$42@*
2A)4% C 9 G* : 2%4*H2@*4% 7 k82)4=6* L33* . T* @EJ04:)@* (2)* =k=*
8") * %4: 4k?4* C 9 G* @ ("H4=* 2* %4: E%48: 4* "A* C5L*
@\$ 7#) " 7 @6* %8* : "8)2@0* 233* . . * @EJ04:)@* (2)* : " 7 #34)4=*
C 9 G* A" %*)H" * \$42@* #")@)U@E% '4%\$* 2: (k4?4=* =k=* 8") *
=4 7 "8@)2)4*2%4: E%48: 4* "A* @ \$ 7#) " 7 @6*
*

G("E' (*) (4%2)k"8234*%"%) (4*0)E=\$*H2@*: 342%*28=*) (4*0)E=\$*
=4@k' 8* H2@* H433UA"%" 7 E32)4=* 28=* %4#3k: 2J340* #2)k: k#28)*
k8: 3E@k"8*: %k)4%k2* H4%4* 8") * : 342%3\$ 4I#32k84=6* 1 "H4?40*
A"33"HUE#* " %4%* 2* 3"8' U)4% 7 * #4%k" =* H2@* 4I)48@k?40* 28=*
"J04:)k?4*: " 7 #2)2)k?4?2)2* H2@* : "334:)4=*2)* 42: (*k8*) (4*
A" % 7 * "A* 2*8") : E)823*# "3\$@ " 7 8" '%2# (\$*K<5WMO*H (k: (*k@2*
@)%48') (*"A*) (k@* @)E=\$*G ("E' (*) (4*k8k)k23=*k2' 8" @)k: * <5W@*
H4%4* 8") * ?2?k2J34)* "%4?k4H*28=*%4@42%: (4% @* (2=*) "%*43\$*
"83\$* "8*) (4*%4#"%)* "8'Ak340*) (4*3"8' U)4% 7 * A"33"HUE#* <5W@*
H4%4* @: "%4=* J\$* 2* @k8' 34UJ3k8=4=* @: "%4%*)" * 2? "k=*
k8)4%32J"2)" "%\$* 28=* k8)4@: "%4%* ?2%k2Jk3k)\$6* c4@E3)@A" % 7 *
<5W@*A" % 7 * @EJ04:)@* H ("* (2=*28=*H ("* (2=*8") %4: 4k?4=*
C 9 G* H4%4* : " 7 #2)4=* E@k8' * B k3: "I"8* @k' 84=U%28P*) 4@*
28=* ! (k@EJ2%4=*)4@)6**
*

G("E' (* (2?k8' *3"8' U)4% 7 * A"33"HUE#*=2)2*k@* J484A: k230*k)*
%4JEA4=*: (2)%*) " * (2?4* @#4: kA: k8k)k23*28=*A"33"HUE#*=2)2*
%4#"%4=* : 342%3\$ 48'E' (*) " * 2823\$N46* G(4@4* %4@)k:)k"8@*
%4@E3)4=*k8*2@ 7 233*#2)k: k#28)* "%E#0*H (k: (*k@2*3k 7 k)2)k"8*
"A*) (k@* @)E=\$* L==k)k"8233\$0* J4: 2E@4*=2)2* H2@* "J)2k84=*
A" % 7 *) (%44* =kAA4%48)*3" : 2)k"8@0* 7 4=k: 23%4: "%=@* H4%4* 8") *
42@k3\$%4)k%4?2J340*3kP43\$*: "8)kJE)k8' *) (4* @ 7 233*8E 7 J4%
"A* #2)k: k#28)@6* G(4@4* =kAA4%48)* 3" : 2)k"8@* : "E3=* (2?4*

: %42)4=* ?2%k2Jk3k)\$*k8*) (4*2)2*: "334:)k"8*28=*%4@E3)@0*28=*
J4: 2E@4* "A*) (k@0*) (4%4* H2@* 23@* "8") * 2* @)28=2%kN4=*
)%42) 748)* #%" : "3* A"33"H4=* J\$*) (4* ?2%k"E@* C 9 G*
@#4: k23k@)@* @448* J\$* #2)k: k#28)@0*) ("E' (2E) ("%"@* %4#"%)*
) (2)*#%" : "3@*H4%4* @k 7 k32%6* LE) ("%"@*23@* "2)4*) (2)* "83\$*
) ("@4*: (k3=%48*) (2)* : " 7 #3k4=*Hk) (*) (4k% C 9 G* #%") : "3@*
H4%4* k8: 3E=4=*k8*) (4* C 9 G* "%E#6**
*

C?4%2330*) (k@* @)E=\$* #%" ?k=4@* @E' '4@)k?4* 4?k=48: 4*) (2)*
C 9 G* 7 2\$* J4* 2* E@4A3* %)42) 748)* (2)* @k' 8kA: 28)3\$*
=4: %42@4@%k@P*") (4*%4: E%48: 4* "A* C5L *k8*: (k3=%48*#")@)U
2=48") "8@k334:) " 7 \$6**
*

4?23E2)4=*) (4*4AAk: 2: \$* "A"%"# (2%\$8' 423*
4I4%: k@4@k8*: (k3=%48*Hk) (*C5L*2A)4%*LRG*J\$*: "8=E:)k8' *
2* %28=" 7 kN4=*: "8)"3*) %k23* K34?43* "A* 4?k=48: 4* d* . M6*
! (k3=%48* k8: 3E=4=* k8*) (k@* @)E=\$* H4%4* 2'4=* Y6Y* h* [6e6*
! k8k: 23* (k@) "%\$* H2@* "J)2k84=* A" %* 233* #2)k48)@0* 28=* 233*
E8=4% H48)* 28* 42%0* 8" @4* 28=*) ("2)* KZaGM* 28=* 28*
"% ("="8)k: * 2@4@ @ 748)6* <"3\$@ " 7 8" '%2# (k: %4: "%=k8' @*
K<5W@*H4%4* #4A" % 7 4=* J4A" %4* LRG*28=*H4%4* #442)4=*
@kI' 7 "8) (@32)4%6* L*) (4* @kIU 7 "8) (*# "k8)* #2)k48)@* Hk) (*
%4@k=E23* C5L *A"33"Hk8' *LRG*k8*d*T-*"E)"A*) (4* "%k' k823*
Y, M* H4%4* %28=" 7 kN4=* k8)" *)H" * "%E# @* KG. M6* W%"E#* . *
k8: 3E=4=* . Y* #2)k: k#28)@* 28=* H2@* : "8@k=4%4*) (4*
4I#4%k 748)23* "%E#0* 28=* W%"E#* , * : "8)2k84=* . T*
#2)k: k#28)@*28=*H2@*) (4* "8)"3* "%E#6*GH" * 7 "8) (@32)4%
KG, X*) (4%4A" %40* ^* 7 "8) (@2A)4%* LRGMO* #2)k: k#28)@* H4%4*
%4U4?23E2)4=* E@k8' * <5W* 28=* : k8k: 23* 4?23E2)k"8@* G (4%4*
#2)k: k#28)@* Hk) (* %4@k=E23* C5L* H4%4* 4I: 3E=4=* =E4*)" *
8"8U: " 7 #3k28: 4*Hk) (*) (4*4I4%: k@4*#%) : "3*k8*d*, M0* "%A" %
)2Pk8' *82@23@)4" k=@%k8*2==k)k"8") * : "8)"3* "%E#*#%" : "3*
k8*d*. M6* 8)4%4@)k8' 3\$0*^ ^ ^ _ * "A* #2)k: k#28)@*Hk) (%4@k=E23*
C5L*H4%4* 7 2346**
*

G(4%4* H4%4* 8" * @k' 8kA: 28)* =kAA4%48: 4@* J4)H448' "%E# @b*
=4 7 " '%2# (k: @0* : k8k: 23* k8=k8' @0* 8" %k8*) (4* L 1 *kL#842*
1 \$#" #842* %8=4IX" "%*) (4* 8E 7 J4%* "A* 2#842* "%* (\$#" I: k:
4?48)@* #4%* ("E#M*2)*G. 6*G(4*2E) ("%"@*4?423*) (2)*2A)4%*)H" *
7 "8) (@* "A": " 7 #34)k8' * "%* "# (2%\$8' 423*4I4%: k@4@k#%) : "3*
8") * #4: kA4=M0* #2)k: k#28)@*k8*) (4*4I#4%k 748)23* W%"E#* . *
(2*2* @k' 8kA: 28)* %4=E:)k"8* k8" %23* J%42)(k8' 0* k8: %42@4=*
32Jk23* @423*28=*3k#*) "840*28=* =4 7 "8@)2)4=*2* @k' 8kA: 28)3\$*
32% 4%* =kAA4%48: 4* k8* L 1 %A" % 7 * G. *) * G, * KW%"E#* . * d*
^ ^ 6. - _ 0*W%"E#* , *d*e6/e _ M6**
*

G("E' (* (2?k8' *3"8' U)4% 7 * A"33"HUE#*=2)2*k@* J484A: k230*k)*
%4JEA4=*: (2)%*) " * (2?4* @#4: kA: k8k)k23*28=*A"33"HUE#*=2)2*
%4#"%4=* : 342%3\$ 48'E' (*) " * 2823\$N46* G(4@4* %4@)k:)k"8@*
%4@E3)4=*k8*2@ 7 233*#2)k: k#28)* "%E#0*H (k: (*k@2*3k 7 k)2)k"8*
"A*) (k@* @)E=\$* L==k)k"8233\$0* J4: 2E@4*=2)2* H2@* "J)2k84=*
A" % 7 *) (%44* =kAA4%48)*3" : 2)k"8@0* 7 4=k: 23%4: "%=@* H4%4* 8") *
42@k3\$%4)k%4?2J340*3kP43\$*: "8)kJE)k8' *) (4* @ 7 233*8E 7 J4%
"A* #2)k: k#28)@6* G(4@4* =kAA4%48)* 3" : 2)k"8@* : "E3=* (2?4*

742@E%4@*E&8'*)(4*\C<*\K28*4?&=48:4UJ2@4=*?23&=2)4=*
)"3* H&("8"%7@*E@4=*A"%*742@E%&8'*)"8'E4*28=*3&#
@%48')(*28=*48=E%28:4*KL=27@0*92)(&@480*V2&84@0*
;2N2%E@*R*!233&@)4%0*, - . TMO*<5W0*7\$"AE8:)&"823*:3&8&:23*
4?23E2)&"8*28=*#E3@4*"I&74)%\$6*V")(*)(4*C9G*28=*)(4*
8"8UC9G*'%"E#*E8=4%H48)*233*2@4@4748)%&8&)&233\$*28=*
2A)4%*)H"*7"8)(@0*28=*)(4*:"8)%"3*'%"E#*E8=4%H48)*"83\$*
\C<*\742@E%4748)@6**
*

G(4*2E)("%@* =4&84*)(4*7\$"AE8:)&"823*%)42)748)*2@*
&@*74)%&:28=*&@)"8&:4I4%:&@4@*8?*"3?&8'*)(4*)"8'E40*
@")A)*#232)40*28=*32)4%23*#(2%\$8'423*H233@0*4@&'84=*")*
&7#%"?4* @E:&"80* @H233"H&8'0*:(4H&8'*J%42)(&8'*28=*
@#44:(*AE8:)&"8@1*K#6. - , [M6*<2%):)@*H4%4*)"3=*")*
#4%A"*7*)(4*4I4%:&@4@*)(%44*)&74@* =2&3\$0* H&)(* . - U, - *
%4#4)&)&"8@*42:(*)&746* C84*)(4%2#&@)*2=7&8&@)4%4=*233*
:3&8&:23* C9G*4?23E2)&"8@*28=*#%4@:%&J4=*233*%)42)748)*
#328@*)"*#2)&48)%&8*28*4AA"%)")*%4=E:4*"J@4%?4%*J&2@*28=*
&8)4%U)(4%2#&@)*?2%&2J&3&)\$6**
*

G(4*B&3:"I"8*@&'84=*%28P*)4@)*H2@*E@4=*)"":7#2%4*=2)2*
A%"7*J4A"%4*28=*2A)4%*C9G0*28=*!(&@JE2%4=*28=*GU)4@)*
H4%4*:"8=E:4=*A"%*:"8)&8E"E@*?2%&2J34@6*V4A"%4*
)42)748)0*H(48*:"7#2%4=*")*(4*(423)(\$*:"8)%"3*'%"E#0*
)4*C9G*28=*8"8UC9G*'%"E#@*(2=*%4=E:4=*)"8'E4*
@%48')(@*#42P0*28=*3"8'4%*48=E%28:4*K@4:"8=@M0*28=*)(4*
2E)("%@*(\$#")(4@&N4*)(2*)(&@* &@*3&P43\$*=E4*)" "%23*
J%42)(&8'*H(48*%344#&8'0*H(&:(*2AA4:)*@*)"8'E4*#*%&)&"8*
28=*%&48')(0*E3)&72)43\$*342=&8'*)"2J8"%723*
=4?43"#748)*"A*:%28&"A2:&23*28=*2&H2\$* @)%E:)E%4@6*
f"33"H&8'*)42)748)0*)(4*C9G*'%"E#@* @("H4=*
@&'8&A&:28)3\$* &8:%42@4=*)"8'E4* @)%48')(0*

L*H42P84@@*"A*)(4*)"23*3k)4%2)E%4*#"3*k@*)(4*32:P*"A*
:"8@k@)48*)4%7k8"3" '\$6*9 28\$*)4%7 @*H4%4*E@4=*)"*
=k@:E@@*C 9 GD*"%"A2:k23*7 \$"AE8:)k"823*)(4%2#\$0*
7 \$"A2@:k23*%4U4=E:2)k"8*KWEk334 7 k82E3)*4)*2360*, - . TM0*
7 \$"AE8:)k"823*%4U4=E:2)k"8*K; 44*4)*2360*, - . `M0*7 \$"3" '\$0*
7 \$"AE8:)k"823*)(4%2#\$*KS k332*4)*2360*, - . [M0*
"% "#(2%\$8' 423*4I4%: k@4@6*G(k@*k8: "8@k@)48:\$*Hk33*348=*
k)@43A*"83\$*)"*: "8AE@4*%42=4%@*28=*%4@42%:(4%@6*
!" 7 #k3k8 '*3k)4%2)E%4*J2@4=*"8*:"

S&3320*9 6*<60*Z?28'43&@)k0*9 60*9 2%)43320*560*V2%4)"0*9 60* *
 F43*<"NN"0*9 6*K,-.[M6*!28*7\$"AE8:)"823*)(4%2#\$ *
 &8:%42@4*)"8'E4*)"84*28=%4=E:4*\$7#)"7@*k8*:(k3=%48 *
 Hk)(*@344#U=k@""=4%4=J%42)(k8'q *
 KYM0*.-,`U.-T,6*

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