
E(K"23+\$8"23+B+\$3&\$G6' &(2"\$5(6>+

/0 I "2(B*"12c)(3(+K&B"#+

^A+2\$I (2"#3"\$, (?V+

5&6(L&\$16&6"F\$8"B*&6+\$%2"#K+

/0 9BK+6"\$93)K"dV+\$82("*(" "

^L""(#A"

I = ZD<J/

=)B*"' +\$@&2US&\$, "#*+B
=>B*"' +\$5&26"\$R+#(#
I "2K)B\$%2"(&2\$3&\$P"(' "

/0 8+6HA(+\${"? "K)6"3"\$8+#K&(dV+
/0 8+6HA(+\$, "#*"\$! "2"
/0

8"?L("#"\$=2"#3&
8"BK"' &6

P% Z: <ZD
PE Z: <ZD

T(*. 2("\$G6' &(2"\$3+\$@"BK(? &#*+

C0 8+6HA(+T(*+2(#+

82"*+

89 N/<YJ

T(*. 2("\$S) [B"\$3&\$, +) 7"\$5&22&(2"	/0 8+thA(+ \$I (6(*"2\$3&\$, "6' "3+2	, "6' "3+2	%1 NJ-D;
M(&A+\$3&\$G6(' &(2"\$, "#*+B\$3&\$1#32"3&	/0 , "2*2&\$8+K	, "6' "3+2	%1 NJ-D;
I "2("##" \$I "BB"\$8&2c)&(2"	/0 , "2*2&\$8+K	, "6' "3+2	%1 NJ-D;
b(c) &\$b"#(&6M"? "BK&#+\$5(X7"	/0 M+ ?\$K)(#*(#+	5+2*"6&7"	89 NJ-D;
M"" (\$g)" "#\$, (6' "E"?+B	/0 12(\$3&\$, 4	5+2*"6&7"	89 NJ-D;
5(6(L&\$1)A)B*+\$G6(' &(2"	/0 12(\$3&\$, 4	5+2*"6&7"	89 NJ-D;
I "">&)B\$@+A)&(2"\$8+B*"	/0 8+thA(+ \$I (6(*"2	5+2*"6&7"	89 NJ-D;
R("A+\$%2" #3V+\$5+2*&	/0		

R("A+\$E")6(#+\$8"" "6K"#*&\$3&\$S(?"
M"#(&6E+7&#aS(*
S("\$52+*\$8")#3"

C0 8+6HA(+M4)6("\$%2(#A&6
/0 5"2("B%2(*+
/0

5+2*"6&7"
5+2*"6&7"

89 NZ-QQ
89 NZ-QQ

T(*+2\$, "?+&63+B\$P"BB+B

/0 8+6HA(+! V&\$3"\$M('(#"\$P2+'(3n#K("

P2(?"" &2"\$3+\$S&B*&

W+V+\$T(K*+2\$16-)c)&2c)&\$S(?"	/0 12(\$3&\$, 4	5+2*''6&7"	89 NQ</C
S)"#"\$P2"3+\$3&\$k<)&(2+7	/0 12(\$3&\$, 4	5+2*''6&7"	89 NQ</C
^"A+\$16&#K"2\$E+b(?"	/0 8+4HA(. 75Tm/T". 75Tm=00002cm*(()) -0. 5B85%2''#0. 4(*+)-0. 3B8)+#		89 NQ</C

T[*+2\$8]E]\$, K>"&F&2	/0 9BK+6"\$, V+\$P")6+	b+6"? -2"	, P N: </;
=(+ '##"\$, "#*+B\$G6(' &(2"	/0 ^#B*(^)*+\$93)K"K(+#"6\$P"2c)&\$9K+6+A(K+	^#3"("*) - "	, P N: </;
v#A&6+\$8>"' &B\$, +)7"\$%&7&22"	/0 8+6HA(+8>2(B*)B	5+2*"6&7"	89 N: <ZD
=" -2(&6%"22+B\$P"(' "\$12"X_+	/0 8+6HA(+W+V+\$P")6+\$^	5&(2"\$3&\$, "#*"#"	%1 N: <DZ
^A+2\$P&2&(2"\$=+)' &("	/0 8+6HA(+3"\$PI \$3+\$8&"24	5+2*"6&7"	89 N: <DZ

1A3"\$8"2+6(#&\$@+'"(B\$16?&(3"

/0 8+6HA(+SW+BH\$@+A)&(2"

, "6' "3+2

%1 N; <QC



8"(\$8HB"2%]\$8+)*+

C0 8+6&A(+\$=A&

E&K(F&

P9

12*>)2\$12"X_+\$I "2*(#B\$S(#>"2&B

/0 8+6HA(+\$\$&2#+)66(

%&6+\$b+2(7+#+&

T[*+2\$P&2B(K>(#\$I &BC)(''

/0 8+6HA(+ \$I ''2(B**'\$M+?\$', (6' H2(+

93)"23+\$93[B(+&I &6+\$3&&,\$+)B"	/0 8+6HA(+&1#*+#+&T(&(2"	, "6' "3+2	%1
, "2"\$1#32"3&&T&2+#&B&&\$3+B&E&(B	/0 , "2*2&&\$8+K	, "6' "3+2	%1
E&#"#&3+B&,"#*+B&8i #3(3+	/0 12(\$3&&,\$ 4	5+2*"6&7"	89
S[A("\$5&(2&&%&6? (#+\$3"\$8+B*"	/0		

=)(&>2?&\$W)#_(\$R)*("U"
=)B*"' +\$P"6+3&***(\$E(-&(2+

C0 8+6HA(+T(BK+#3&\$3&\$P+2*+\$, &A)2+
/0 9I 9%\$=+']\$1#32H\$5]\$! +#*+2+

T"6(#>+B , P
T"6(#>+B , P

,"#+B

/0 9]I]\$T"6"&2\$16&#K"2

R&2&B(#"

I "2("\$93)"23"\$, (6' "\$I "2c)&B

/0 8+6HA(+5I +3)6+

W)"7&(2+\$3+\$@+2*&

89

1#"\$564'("\$3&\$G6' &(2"\$S&6&B

/0 8+6HA(+\$, "+\$P")6+\$3"\$82)7

%&6+\$b+2(7+#*&

I =

I "\$*>&)B\$M"#&6+#\$=+?&B\$12"X_+

/0 8+6HA(+\$, "+\$P")6+\$3"\$82)7

%&6+\$b+2(7+#*&

I =

@"U"2"\$W)6("\$1?"2"6

/0 9BK+6"\$93)K"dV+\$82("\$*("

%&''2(7\$5''2('B\$5+#B&K''	/0 12(\$3&\$, 4	5+2*''6&7''	89
I ''*>&)B\$I ''2[6(+\$, K>)67\$, (6' ''	/0 8+6HA(+12(\$3&\$, 4\$O''B>(#A*+#\$, +'2&B	5+2*''6&7''	89
1#''\$WX6(''\$%&7&22''\$, +)B''	/0 5''2(''B\$%2(*+\$P2H\$T&B*(-)6''2\$8&#*2''6	5+2*''6&7''	89
S&*(KU''\$%&''2U7\$3+B\$, ''#*+B\$I &3&(2+B	/0 8+6&A(+8+#*''+\$I ''K&(.	I ''K&(.	1S

9? (6&\$@&6(B&\$E+32(A) &B\$3"\$, (6' "
T(*. 2("\$I "2("\$, +)7"\$12"AV+

/0 5"2("B\$%2(*+\$P2H\$T&B*(-)6"2\$8&#*2"6 5+2*"6&7"
/0 8+6HA(+)\$S)K("#+\$5&V+

I "2("\$86"2"\$b&2B-"K>\$, "#*t"##"

/0 , "A2"3+\$8+2"dV+\$3&&I "2("

I "">&)B\$P")6+\$5&22&(2"	/0 8+6HA(+G-_*(' +\$I "2c) nB	, V+\$P")6+	, P
R>"&(B&\$3&\$84BB("\$P2"3+\$3"\$, (6' "	C0 8+6&A(+G2-&	82)7&(2+	, P
1#"\$S)[B"\$, (6' &B*2#(\$@"BK()**(C0 8+6HA(+P+6(&32+	, V+\$M+BH\$3+B\$8""? L+B	, P
R>U"A+\$G6(' &(2"	/0 8+6&A(+\$, "#**\$8""**"2(#"	, V+\$P")6+	, P
1?4-(6&\$%&#B&\$=(? &#&7\$GK>?"**	/0		

92(a\$g6&(#\$! "2"#>V+\$3&&\$S+U+6"

/0 T(BK+#3&&\$3&&\$P+2*+\$, &A)2+

, V+\$P")6+

, P

8[#*("\$! "2("\$, "6&B\$%&2K(

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/0 8+6&A(+P2&' &B*

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, "?)&T(K*+2\$S)7\$I "2*(#B

/0

I "*">&)B\$k<)&(2+7\$I "2(#+
WX6("\$, +)7"\$3+B\$, "#*+B

/0 @B"\$, 2"\$, "#*[BB(? +\$, "K2"?&#*+
C0 8+6&A(+\$, &*&\$3&\$, &*&? -2+\$8+K

P(2"L+2"
P+d+B\$3&\$8"63"B

I =
I =

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/0

P&32+\$E+-\$2*+\$, &' &2(#+\$%2"A"	/0 8+6HA(+8S^P	=)"2)6>+B	, P
T"6&#*(#"%"3"2. \$P&32+B"\$=)(3"	/0 52"#K(BK"#+\$@B"\$, 2"\$1L"2&K(3"	, V+\$P")6+	, P
m"aa\$M" #(&65" ' &2+\$S+L&B	/0 52"#K(BK"#+\$@B"\$, 2"\$1L"2&K(3"	, V+\$P")6+	, P

I "2("\$\X6U"\$16-)c)&2c)&\$P"2&#*&

/0 8+6HA(+8B>2(B*)B

5+2*"6&7"

89

5&6(L&\$52"#K(BC)&'(B	/0 %+? \$M&B) B\$@+BB"\$, 2"\$3&\$S+)23&B	8)2*(-"	PE
=()6("\$R&2&7(#\$M)*2"\$3"\$8) #>"	/0 %+? \$M&B) B\$@+BB"\$, 2"\$3&\$S+)23&B	8)2*(-"	PE
8"2+6("#"\$%&2*+6(#(/0 8+6HA(+PA3	S+#32("#"	PE
I "2("\$80KTF[([-0. 4(6))0. 4(6) -00. 3(8) -0. 4(\$) -0. 1(8) "" "6=>*(\$?0. 4(*+)B			

I "2("\$3&\$54*(?"\$R2(A)&(2+\$3"\$, (6' "

S&*(K("\$B+6"2&B\$3&\$8"2' "6>+

I "2("\$93)"23"\$8"2?+\$P"BK>+"6

W+V+\$1#*+#+(\$, "AA(#

M&B(2&&\$=+#d"6' &B\$, 7" _3"

5&2#"#3"\$=+?&B\$3&&, (c)&(2"

/0 ^#B*(*)*+\$93)K"K(+#"6I "2("\$3+\$, +K+22+ P"*+B

/0 8+6HA(+8+6\#"("\$b+6"#3&B"\$j\$12"L+*(12"L+*(

/0 8+6HA(+1K&BB+\$j\$, &3&8%+c)&(2V+ 8)2*(-"

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PE

S")2"\$3&\$, +)7"\$=#3+tf(

/0 8&#*2+\$93)K"K(+#"@")2&7"

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/0 8+6HA(+16F"\$%"-U\$F\$I "B*&2

1#"SR" (#4\$I +3&B*+\$3"\$, (6' "

C0 8+6HA(+\$, "#*"\$D&6&#" "

5+2*"6&7"

89

b(c)&\$1F+#B+\$8''' "77"#"

/0

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PE

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E&K(F&

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S)K''B\$3''\$, (6' ''\$I ''2c) &B
@''*46(''\$%(A+6(#\$=2+FF

/0 8+6&A(+82(B*+\$E&(

/0 8+6HA(+\$, V+\$R+? 47\$3&\$1c)(#+

C0 9\$9\$9\$I \$8''23&''6E+#K''66(

P''*+B

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="-2(&66"\$16?&(3"\$S(?"

/0 8+6HA(+P"32&\$G'[3(+

I "2("#"\$R&2&7"\$3&&\$16-)c)&2c)&\$, "#*+B

W&K("#&\$, (6' &(2"\$%"22+B

/0 995I \$, "#*"\$S)7("

5+2*"\$6&7"

89

P&32+\$b(c) &\$, +)B"\$8+6"\$2&B

/0 P"*2+#"*+\$S)(7\$%"2-B"\$I +2&(2"

5+2*"\$6&7"

89

b&6&#\$, "#*"#"\$I +#*&(2+

/0 8+6HA(+\$=&+\$,)6

W+BH(S)K"BS3+B\$, "#*+B\$%&2?) 3&B

I "2K+B\$T(#(K()B\$@)#&B\$I "2K+6+#A+	/0 8+6&A(+9B**3)"6@(K+6"+\$%"B*+B\$5(6>+ ^**L&2)#"	EW
"B"-&66&\$8+&6>+\$52"#K(BK+	/0 8+6HA(+1)A)B*+\$S"2"#_"	, V+\$P")6+
16&BB"#32"\$I "A"6>V&B\$I "2C)&B	C0 8+6HA(+9**L"	, V+\$P")6+
S&+#"23+\$, +)7"\$8)2U	/0 8+6HA(+S&+#"23+\$3&W) #3("[W) #3("[
I "**>&)B\$b(c) &\$, (6' "	/0 8+6&A(+P"32&\$I +U&	, V+\$P")6+

52"#B)U\$,")&P+#*&B\$b(c)&	/0 8+6HA(+\$, V+\$W+BH\$j\$1(?K"	8"o("B	I 1
, "2"\$, +)B"\$P2"7&2&B	/0 8+6HA(+G\$%+?\$P"B*+2	, V+\$S)[B	I 1
, "?U"\$g"?(66"\$I "2(#>+\$P(2&B	/0 ^#B*(*)*+\$5"2(#"\$3+\$%2"B(6	, V+\$S)[B	I 1
S+2&#"5+#B&K"\$P(#*+	C0 ^#B*(*)*+\$93)K"K(+#"6\$I "2("\$I "3"6&#" R). ("		I 1
I "2("\$S)(7"\$, (6' "\$K-)(#*(6("\$#+	/0 8+6HA(+\$, "6&B("#+\$, V+\$=\$+#d"6+	8)(" -4	I R
1#" \$I "2("\$3"\$I "****\$&\$, (6' "	/0		

^A+2\$8"" "6K"#* &\$R&(o&(2"
I "2("#"\$=\$+? &B\$P(#*+
1##"\$8"26"\$5&22&(2"\$, (6' "

/0 9BK+6"\$I +3&6+\$3&\$A)"*)
/0 8+6HA(+=\$&+\$,)6
/0

^A) "*)
W+V+\$P&BB+ "

89
P%

W+V+=\$"-2(&5&22&(2"\$8"-2"6
P&32+\$b(c) &S)(7\$3"\$, (6" "

/0 9]9]9]9]5\$52"#K(BK"\$16' &B\$3+\$1?"2"6 8")K"("
/0 9BK+6"\$1#(*"\$=+#d"6' &B P")6(B*"

^B(B\$I "2("\$=+? &B\$E+32(A)&B

/0