

!C¥X"t²fκW©Ò|w,Ĕ^{a01}CÀ,±±"î¼¹;C!pªG±z·Qn'ú,Õ;B³]©w©Í«³]±
±"î¼¹ªºÆF±Ó«×;A½Đĵ"ú¥!;AμM«á«öκ@κU [κº@e];C

«öæ@æU¥H·s¼W·s²º¹CÀ, ±± ``↑³/4¹;C

«öæ@æU¥H²³⁴°£©Ö¿í"ú²²¹CÀ,±±"↑³⁴¹;C

«öæ@æU¥H´ú,Õ;B³]©w©í«³]¹CÀ,±±´î¼¹²ºÆF±Ó«x;C

!C¥X©Ò!³±z!w,Ëα\$¹CÀ,±±"î³/4¹²²±±"î³/4¹ ID;C±z¥i;Ú!æÅÜ\$ó«ü©wμ¹" CÓ¹CÀ,±±"î³/4¹²² ID;C

|C¥X±z"t²íαW©Ò|w,Ĕ²²¹CÀ,±±"î³/4¹;C

|C¥X¥Ø«e«ü©wμ¹"CO ID aº±±"î³/4¹ ID æî¹CÀ, ±±"î³/4¹;C

¿í"ú±±"î¾¹ ID «á«öæ@æU!¹¶µ¥Ø;A¶iÅÜ\$ó«ü©wµ¹¶!²º¹CÀ,±±"î¾¹;C

!p²G±z²⁰¹CÀ, ±±⁷î³4¹³s±μ°δ»Ýn¹³³s±μ°δÅX°Êμ{!;±~⁻à°δ!æ;A«h^{1/2}Đ±q!¹²M³æ±±;î³4Ü;C

Υ; b³s^{1/2}u^{a±1}CÀ, ®Éμοϕί^{1/4}Æ^{3/4}Ú^{3/4}÷°ÝÃD; A^{1/2}Đ²M°£¹ϖè¶ô; C

±N¹CÀ, ±±"î³/4¹¥HÃþ«¬ (Àù«ö¶s, ¡æ³/4PÁa±ì) ðî²£«~¡WºÙ (Microsoft SideWinder 3D Pro)
¡C¥X¡C¡p²G¥í"à¡A¹/2D¡î³/4Û±z¹CÀ, ±±"î³/4¹" S¡³²²²£«~¡WºÙ¡C
¡p²G¥¹/4¡C¥X±z¹CÀ, ±±"î³/4¹²²²£«~¡WºÙ©ÎÃþ«¬¡A¹/2D«öæ@æU [·s¹/4W"ä¥L]
¥H¡w, Ê¥¡²²ÅX°Êµ{¡¡A©Î«öæ@æU [¡Ûq] ¥H«Ø¥ß±z¡Ûæv²²ÅX°Êµ{¡¡¡C

!p^aG±z^a01CÀ, ±±[∞]3/4¹æf|b±±[∞]3/4¹a02M³æææ;A½D«öæ@æU!13B;C

«ü©w±z¹CÀ,±±"î¼¹©Ò²p²²¶b;CÁöµM·||³"Ò¥~;A;ýÁù¶b¹CÀ,±±"î¼¹¶@-ë´£"Ñ²W²U»P¥²¥k²³¼°Ê¥\
-à;C;Ó²T¶b¹CÀ,±±"î¼¹¶@-ë´£"Ñ²o²ù±±"î¥\-à;A¥|¶b¹CÀ,±±"î¼¹«h³q±´£"Ñ²o²ù²í²è;V³¼P±±¼¹¥\
-à;C

«ü©w±z¹CÀ,±±"î¼¹©Ò!³²²«ö¶s¼Æ;C

!p^aG±z^a1CÀ, ±±^î3/4¹αf -OÂ²©ö^a·n±ì;A^{1/2}Đj^îú^îä^{ααα}@Ój^îμ;C

«ü©w¬°±z©Ò!³;A¥B¥i©¹κKÓκè!V²³⁴°Ê²²Ä²¹½í!;κè!V±±ˆî³⁴¹;A³q±`!³ˆâÓˆˆ!¥|Ó«ö¶s;C

«ü©w±z²²±±ˆ¼¹²p!³¿û½ü;B²o²ù½ñ²Oαí·Üˆ®½ñ²O;C

«ü©w±z²º¹CÀ, ±±î³/₄¹²³µøÄ± (POV) ÀY²⁻;CPOV
ÀY²⁻¥iÁý±z«ü©w!b;Ã¹õæWÄËµøª«¥ó²º!ì,m©Îæè!V;C

'£"Ñ@ÓÁ¶;Áý±z¿é¶J;Úq¹CÀ,±±"î¾¹²³;WÙ;C;¹;WÙ;|¥X²{;b [¹CA,±±"î¾¹] ;,Üæè¶ô²³ [±±"î¾¹]
²M³æ¶;C

±N¹CÀ, ±±´î³/4¹¥HÃþ«¬ (Âù«ö¶s, ¡æ³/4PÁa±i) ¢î²£«~¡WºÙ (Microsoft SideWinder 3D Pro)
¡C¥X¡C¡p²G¥î`à¡A¹/2D¡î³/4Ü±z¹CÀ, ±±´î³/4¹`S¡³²²²£«~¡WºÙ¡C

Åã¶Ü¶b 1 ¶í 2 ¢¢²³⁄⁴°Ê½d³ð;C½Ð¿í´ [ÆF±Ó«x,ê°T] °í¶¶²º«ü¶Ü;A¶H´ú©w¹CA,±±´´³⁄⁴¹¶¶b 1 ¶í 2
(³q±`-O X ¶í Y) ¢¢²³⁄⁴°Ê½d³ð;C

Åã¶Ü¶b 3 æ²³¼°Ê½d³ð;C½Ð¿í` [ÆF±Ó«x,ê°T] °ïææææ«ü¶Ü;A¶H´ú©w¹CÀ,±±`î³¼¹æ§¶b 3
æ²³¼°Ê½d³ð;C

Åã¶Ü¶b 4 æ²³¼°Ê½d³ð;C½Ð¿í^^ [ÆF±Ó«x,ê°T] °ïææææ«ü¶Ü;A¶H´ú©w¹CÀ,±±´´³¼¹æ§¶b 4
æ²³¼°Ê½d³ð;C

Åã¶Ü¶b 5 æ²³¼°Ê½d³ð;C½Ð¿í^^ [ÆF±Ó«x,ê°T] °ïææææ«ü¶Ü;A¶H'ú©w¹CÀ,±±^^³¼¹æ§¶b 5
æ²³¼°Ê½d³ð;C

Åã¶Ü¶b 6 æ²³¼°Ê½d³ð;C½Ð¿í` [ÆF±Ó«x,ê°T] °ïææææ«ü¶Ü;A¶H´ú©w¹CÀ,±±´³¼¹æ§¶b 6
æ²³¼°Ê½d³ð;C

ÅãÿÜκW;Bÿª;Bÿκ;BκU^{23/4°}Ê®É;A±zμøÄ± (POV) ÀY^{2-ªº}i,m;C^{1/2}Dζí^^ [ÆF±Ó«x,ê°T] °ïκ
κªº«üÿÜ;AÿH'ú©w¹CÀ,±±''^{3/4}ªº POV ÀY²⁻;C

!p²G±z²⁰¹CÀ, ±±¹î^{3/4}1^ap³æè!V^{3/4}P±±^{3/4}1©î^{1/2}ñ²O;A©î±z³µ³s±µÓ²O²æè!V^{3/4}P±±^{3/4}1©î^{1/2}ñ²O;A^{1/2}Đj¹ú
[æè!V^{3/4}P±±^{3/4}1] ¥H^{1/2}T©w¥j!b±z²⁰¹CÀ, ææ¹î¹¥í¹æ§;C

«ö@U!¶µØ¶i³]©w±z¹CÀ, ±±î¼¹ºÆF±Ó«x;CÆF±Ó«x³]©w¶i³]©w±z¹CÀ, ±
±î¼¹¶§¶bº²¾ºÊ½d³ð;C|pªG±zªº¹CÀ, ±±î¼¹ªp³µøÄ± (POV) ÀY²~;A±z¶]¶i³]©w^º-
ÓˆS©ÊºÆF±Ó«x;C

Åã¶Ü¶b 1 ¶í 2 ¢¢²³⁄⁴°Ê½d³ð;C½Ð¿í´ [ÆF±Ó«x,ê°T] °í¶¶²º«ü¶Ü;A¶H´ú©w¹CA,±±´´³⁄⁴¹¶¶b 1 ¶í 2
(³q±`-O X ¶í Y) ¢¢²³⁄⁴°Ê½d³ð;C

Åã¶Ü¶b 3 æ²³¼°Ê½d³ð;C½Ð¿í^^ [ÆF±Ó«x,ê°T] °ïææææ«ü¶Ü;A¶H´ú©w¹CÀ,±±´´³¼¹æ§¶b 3
æ²³¼°Ê½d³ð;C

Åã¶Ü¶b 4 æ²³¼°Ê½d³ð;C½Ð¿í` [ÆF±Ó«x,ê°T] °ïææææ«ü¶Ü;A¶H´ú©w¹CÀ,±±´³¼¹æ§¶b 4
æ²³¼°Ê½d³ð;C

!1xâ;r'£"ÑÆF±Ó«×³B²z²²©Ò!³"BAEj;C

¥í"Ó'ú, Õ¶b 1 ñí 2 ¢¢²³⁄⁴°Ê½d³ð;C½Ð¹Á, ÕÄ²ñí'ú, Õæè¶ð²º©Ò;³"æ, " ;C|p²G¶b 1 ñí 2 ¥¼¥
¿½T!^À³;A½Ð¹Á, Õ«³]¹CÀ, ±±"î³⁄⁴¹ººÆF±Ó«×;C

¥í"Ó'ú,Õ¶b 3 ²²³/⁴°Ê½d³ð;C½Ð¹Á,ÖÄ²¶í'ú,Õæè¶ô²²³»ºÝ¶í©³ºÝ;C|p²G¶b 3 ¥¼¥½²T| ^À³;A½Ð¹Á,Õ-
«³]¹CÀ,±±"í³/⁴¹²ºÆF±Ó«×;C

¥í"Ó'ú,Õ¶b 4 ²²³⁄⁴°Ê½d³ò;C½Ð¹Á,ÖÄ²¶í'ú,Õæè¶ô²²³»ºÝ¶í©³ºÝ;C|p²G¶b 4 ¥¹⁄⁴¥¿½T| ^À³;A½Ð¹Á,Õ-
«³]¹CÀ,±±"í³⁄⁴¹²ºÆF±Ó«×;C

¥í"Ó'ú,Õ¶b 5 ²²³/⁴°Ê½d³ð;C½Ð¹Á,ÖÄ²¶í'ú,Õ¶è¶ô²²³»²Ý¶í©³²Ý;C|p²G¶b 5 ¥¼¥½²T| ^À³;A½Ð¹Á,Õ-
«³]¹CÀ,±±"í³/⁴¹²³/⁴EF±Ó«×;C

¶í´Ó´ú,Õ¶b 6 ²²³¼°É½d³ð;C½Ð¹Á,ÕÄ²¶í´ú,Õæè¶ò²²³»²Ý¶í©³²Ý;C|p²G¶b 6 ¶¼¶½²T| ^À³;A½Ð¹Á,Õ-
«³]¹CÀ,±±´´í³¼¹²³/EF±Ó«×;C

!p²G±z²⁰¹CÀ, ±±ⁱ³⁄⁴¹²p!³μøÄ± (POV) ÀY²⁻;A«h¥i¥íⁱÓ´ú,Õ¥!;CYn´ú,Õ POV
ÀY²⁻;A¹⁄²Ð¥H±W;B¥²;B¥k;B±U²⁰¹¶¶§Ç²³⁄⁴°Ê¥!;C!p²G¥¹⁄⁴¥¿¹⁄²T!^À³;A¹⁄²Ð¹Á,Õ«³]¹CÀ, ±
±ⁱ³⁄⁴¹²⁰ÆF±Ó«×;C

´ú, Õ±z²⁰¹CÀ, ±±^{3/4}«ö¶s;C^{1/2}Ðæ@!, «öæ@Ó«ö¶s”Ó´ú, Õ;C«ö¶s, ^{1/2}X²⁰«ü©w¬O¶Ñ¹CÀ, ±
±^{3/4}»s³y°Ó©Ò”M©w;C

!b" C3]©w POV ÀY²~ ¢\$ÆF±Ó«xªº" BÆJ«á;A½Ð«ö!¹«ö¶s©Í ENTER Áä;C

| ^ ``iÆF±Ó«x³B²z²º«eæ@Ó`BÆj;C¥Ø«e²º¶bæ´«O`d-º¥¼³]©w©î¹w³]-ºÂÂ²ÆF±Ó«xÈ;C

²π¹L¥Ø«e²ºÆF±Ó«x³]©w¨BÆJ;A!Ó²³¼¨¨Uπ@ÓÆF±Ó«x±±¨î;C¥Ø«e²º¶bπ
´«O¯d¯º¥¹⁄³]©w©î¹w³]¯ºÂÂ²ºÆF±Ó«xË;C

!b"CO3]©w POV ÀY²~¤\$ÆF±Ó«×²º"BAEJ«á;A½Ð«ö!¹«ö¶s©Í ENTER Áä;C

| ^ ``iÆF±Ó«x³B²z²º«eæ@Ó`BÆj;C¥Ø«e²º¶bæ´«O⁻d⁻º¥¼³]©w©î¹w³]⁻ºÂÂ²ºÆF±Ó«xÈ;C

²x¹L¥Ø«e²ºÆF±Ó«x³]©w¨BÆj;A|Ó²¾⁴¨ìxUx@ÓÆF±Ó«x±±¨î;C¥Ø«e²º¶bæ
´«O¯d¯º¥¹⁴³]©w©î¹w³]¯ºÂÂ²ºÆF±Ó«xÈ;C

