

#15173863

UNIVERSITY OF STRATHCLYDE

WINDOW OPTIMISATION FOR IRAQI HOUSES

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APPENDIX 3

APPENDIX 3

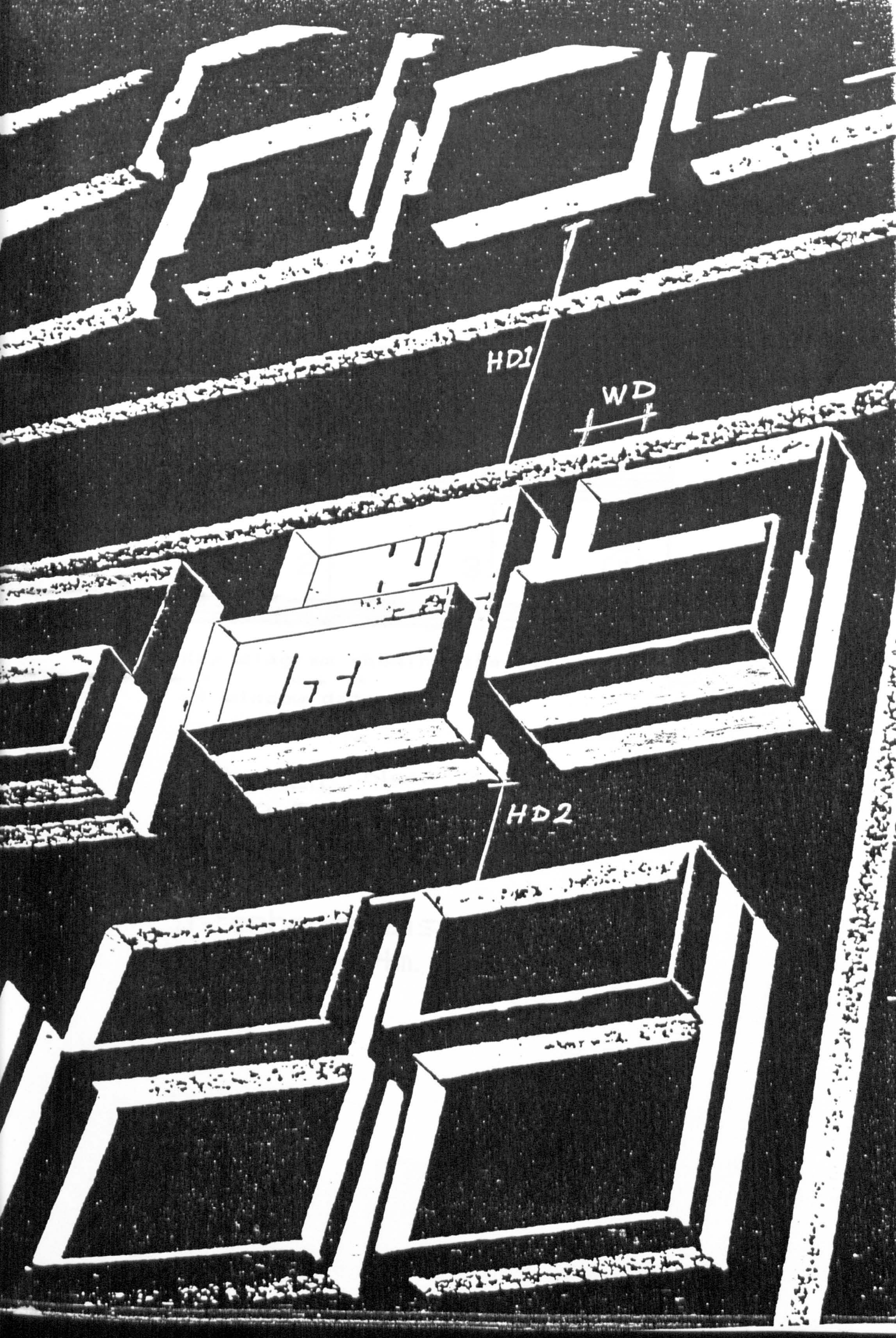
Tables for Window Performance for Direct Sunlight Control

This Appendix contains two main sets of graphs:

1- A set which gives window efficiency in rank order, according to either yearly or summer efficiency as explained in 4.7.2.

Each table contains the window performance rank order for 44 different windows for 16 orientations, for a single interhouse distance, for one of the six locations on the wall, for 120mm, 240mm and 360mm wall thicknesses and for windows located on both one and a half storey and two storey walls. The one storey wall case can be obtained by using the data for first storey wall from the two storey wall tables.

2- The second set gives tables for the 20% best windows selected from the first set.

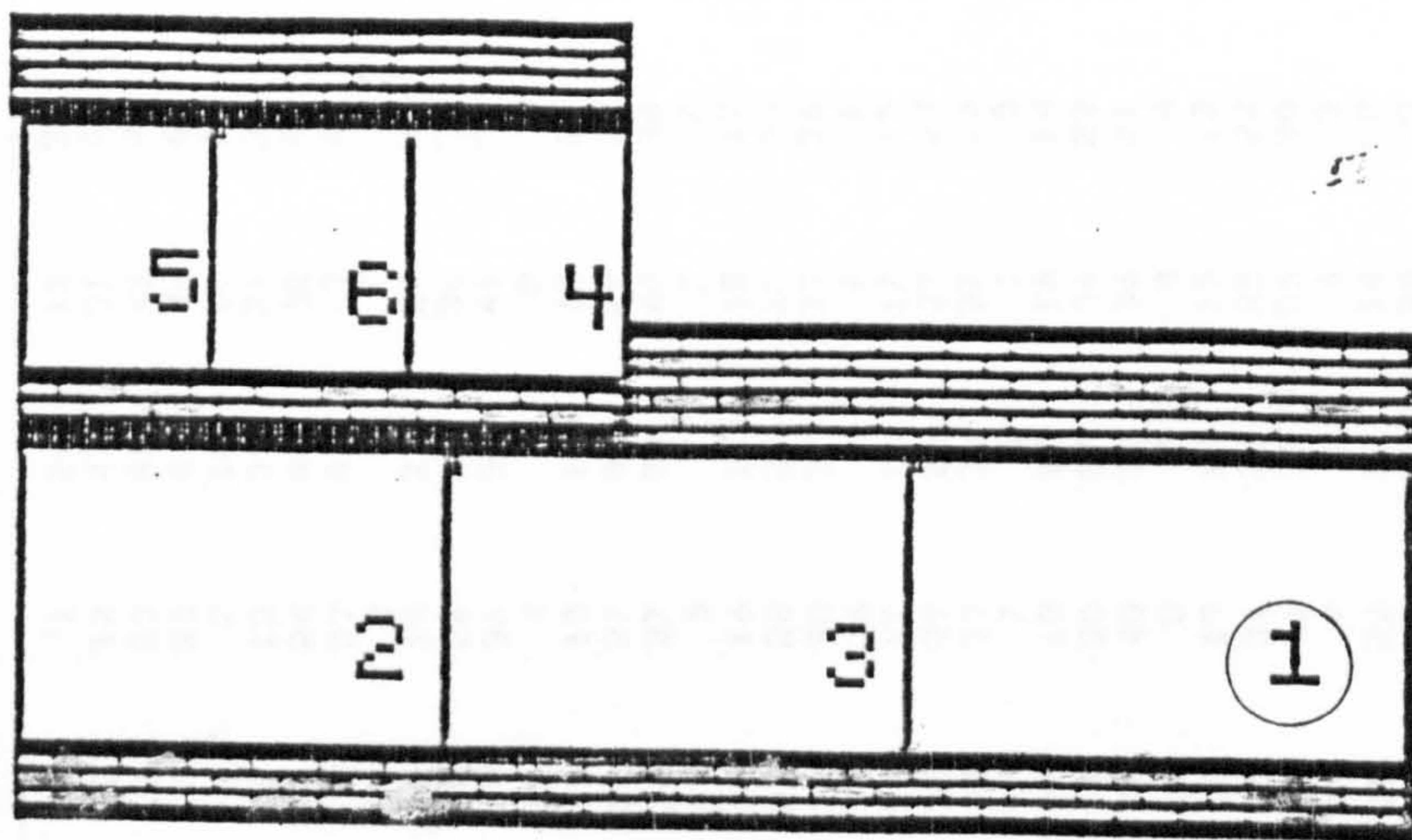


HD1

WD

177

HD2



Key diagram showing the location
of window data

Side Wall No. 2
1 1/2 Storey

Interhouse Distance
1, 2, 3 and 4m.

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	11	1	1	1	1	1	26	11	34	40	1	37	1
.50	1.25	2	2	2	28	12	2	2	2	12	42	31	41	42	3	38	2
.50	1.50	3	3	3	42	15	3	3	3	23	43	43	43	43	11	39	3
.50	1.75	4	4	4	44	25	4	4	4	25	44	44	44	44	15	40	4
.75	1.00	5	5	5	10	2	5	5	5	2	10	10	16	23	2	41	5
.75	1.25	6	6	6	21	13	6	6	6	13	33	21	35	37	14	42	6
.75	1.50	7	7	7	36	24	7	7	7	24	40	38	40	39	18	43	8
.75	1.75	8	8	8	43	30	8	8	8	30	41	42	42	41	27	44	10
1.00	1.00	9	9	9	9	7	9	9	9	3	9	9	9	12	4	33	7
1.00	1.25	10	10	10	20	14	10	10	10	14	21	20	26	30	16	34	11
1.00	1.50	11	11	11	31	26	11	11	11	26	36	30	37	36	25	35	16
1.00	1.75	12	12	12	41	36	12	12	12	36	37	41	39	38	30	36	22
1.25	1.00	13	12	8	8	4	13	12	11	4	8	8	8	8	5	28	9
1.25	1.25	14	14	16	19	16	14	14	15	15	18	19	21	21	17	30	15
1.25	1.50	16	16	23	30	27	16	16	16	27	31	29	32	33	28	31	24
1.25	1.75	17	18	28	40	37	17	18	22	37	30	40	38	35	35	32	30
1.50	1.00	15	15	10	7	5	16	15	13	5	7	7	7	7	6	22	12
1.50	1.25	21	19	21	18	17	18	19	17	16	17	18	17	16	19	26	20
1.50	1.50	25	21	27	29	28	20	21	25	28	27	28	28	29	29	27	27
1.50	1.75	27	24	33	39	38	21	24	29	30	37	39	36	34	30	29	34
1.75	1.00	18	17	13	6	6	19	17	16	6	6	6	6	6	7	14	13
1.75	1.25	26	22	24	17	18	22	22	23	17	16	17	15	15	20	21	23
1.75	1.50	29	27	31	27	29	24	27	30	29	25	27	24	25	31	24	32
1.75	1.75	32	31	36	38	39	27	31	33	39	35	37	33	32	39	25	38
2.00	1.00	19	20	14	5	7	23	20	17	7	5	5	5	5	8	7	14
2.00	1.25	28	26	25	16	19	26	26	27	18	15	16	14	14	21	16	25
2.00	1.50	33	32	34	26	31	29	32	32	30	24	26	23	22	32	20	33
2.00	1.75	37	36	40	37	40	32	34	37	40	34	36	31	31	40	23	40
2.25	1.00	20	23	15	4	8	25	23	20	8	4	4	4	4	9	4	17
2.25	1.25	30	30	26	15	20	30	30	28	17	14	15	13	13	22	11	26
2.25	1.50	36	35	35	25	32	34	35	35	31	23	25	22	20	33	17	35
2.25	1.75	40	39	41	35	41	36	39	39	41	32	35	30	28	41	17	41
2.50	1.00	22	25	18	3	9	28	25	21	9	3	3	3	3	10	3	18
2.50	1.25	31	33	29	14	21	35	33	31	20	13	14	12	11	23	8	28
2.50	1.50	38	38	37	24	33	38	38	38	32	22	24	20	19	34	13	36
2.50	1.75	42	41	42	34	42	40	41	41	42	30	34	29	27	42	18	42
2.75	1.00	23	28	19	2	10	28	28	24	10	2	2	2	2	12	2	19
2.75	1.25	34	34	30	13	22	37	36	34	21	12	13	11	10	24	6	29
2.75	1.50	39	40	38	23	34	41	40	40	34	20	23	19	18	36	10	37
2.75	1.75	43	43	33	33	43	43	43	43	43	29	33	27	26	43	15	43
3.00	1.00	24	29	20	1	11	33	29	26	11	1	1	1	1	13	1	21
3.00	1.25	35	37	32	12	23	39	37	36	22	11	12	10	9	26	5	31
3.00	1.50	41	42	39	22	35	42	42	42	35	19	22	18	17	37	9	39

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	44	1	1	1	1	44	44	44	11	11	1	25	1
.50	1.25	2	2	2	43	12	2	2	2	43	42	43	39	42	2	26	2
.50	1.50	3	3	3	30	23	3	3	3	32	41	42	43	43	13	27	3
.50	1.75	4	4	4	42	26	4	4	4	31	43	41	44	44	16	28	4
.75	1.00	5	5	5	31	2	5	5	5	30	39	40	10	10	2	29	5
.75	1.25	6	6	7	29	13	6	6	6	27	37	39	26	34	14	30	6
.75	1.50	7	7	9	28	24	7	7	7	28	34	30	40	40	20	31	7
.75	1.75	8	8	12	41	35	8	8	9	33	40	36	42	41	28	32	8
1.00	1.00	9	9	6	26	3	9	9	8	27	32	37	9	9	4	33	9
1.00	1.25	10	10	11	17	14	10	10	10	26	26	35	20	21	15	34	10
1.00	1.50	11	11	20	27	25	11	11	12	24	25	33	35	37	26	35	11
1.00	1.75	12	12	22	40	36	12	12	15	34	38	32	41	39	34	36	12
1.25	1.00	13	13	8	16	4	13	13	11	25	24	34	8	8	5	37	13
1.25	1.25	14	14	17	15	15	14	14	14	23	23	31	19	19	17	38	14
1.25	1.50	15	16	24	25	27	15	15	17	21	21	29	29	32	27	39	15
1.25	1.75	16	17	29	37	37	16	17	21	35	36	26	38.	38	37	40	16
1.50	1.00	17	15	10	14	5	17	16	13	22	22	30	7	7	6	41	17
1.50	1.25	18	19	21	12	16	18	18	18	17	19	27	18	18	18	42	18
1.50	1.50	19	21	27	24	28	20	20	23	17	17	24	28	27	29	43	19
1.50	1.75	20	24	34	38	38	21	21	28	36	35	20	37	36	38	44	20
1.75	1.00	21	18	13	13	6	19	19	16	20	20	28	6	6	7	15	21
1.75	1.25	22	22	23	10	17	22	23	24	16	16	23	17	17	19	22	22
1.75	1.50	23	26	32	23	29	24	25	29	12	13	18	27	26	30	23	23
1.75	1.75	24	29	37	37	39	27	28	33	37	33	14	36	35	39	24	24
2.00	1.00	25	20	14	11	7	23	22	19	18	18	25	5	5	8	6	14
2.00	1.25	26	27	25	8	18	26	26	27	14	14	19	16	16	21	18	15
2.00	1.50	27	32	33	22	30	29	30	32	9	9	13	25	25	31	20	25
2.00	1.75	28	34	40	36	40	32	33	38	38	31	9	34	33	40	21	34
2.25	1.00	29	23	15	9	8	25	24	20	15	15	22	4	4	9	4	15
2.25	1.25	30	31	26	5	19	30	31	30	10	10	16	15	15	22	11	26
2.25	1.50	31	35	35	21	31	33	35	36	6	6	11	24	24	32	17	35
2.25	1.75	32	39	41	35	41	36	37	40	39	30	6	33	31	41	19	41
2.50	1.00	33	25	16	7	9	28	27	22	13	12	21	3	3	10	3	16
2.50	1.25	34	33	28	3	20	35	34	31	7	7	12	14	14	23	8	29
2.50	1.50	35	38	36	20	32	38	38	37	4	4	7	23	23	33	13	37
2.50	1.75	42	41	42	34	42	40	41	42	40	29	4	32	30	42	16	42
2.75	1.00	36	28	18	6	10	31	29	25	11	11	17	2	2	11	2	17
2.75	1.25	37	36	30	2	21	37	36	34	5	5	10	13	13	24	7	30
2.75	1.50	38	40	38	19	33	41	40	39	2	2	5	22	22	35	10	38
2.75	1.75	43	43	43	33	43	43	43	43	41	28	2	31	29	43	14	43
3.00	1.00	39	30	19	4	11	34	32	26	8	8	15	1	1	12	1	18
3.00	1.25	40	37	31	1	22	39	39	35	3	3	8	12	12	25	5	31
3.00	1.50	41	42	39	18	34	42	41	41	1	1	3	21	20	36	9	39
3.00	1.75	44	44	44	32	44	44	44	44	42	27	1	30	28	44	12	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< W I N D O W >		D O R I E N T A T I O N S												>>-----			
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	-	-	-	-	1	-	1
.50	1.25	2	2	2	-	2	2	2	2	-	-	-	-	-	-	-	2
.50	1.50	3	3	-	-	-	3	3	3	-	-	-	-	-	-	-	3
.50	1.75	4	4	-	-	-	4	4	4	-	-	-	-	-	-	-	4
.75	1.00	5	-	-	10	2	-	-	2	2	-	-	-	-	2	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	9	3	-	-	-	3	-	9	-	-	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	13	-	-	8	4	-	-	-	4	8	8	8	-	-	-	-
1.25	1.25	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	17	-	-	7	5	-	-	-	5	7	7	7	-	-	-	-
1.50	1.00	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	18	-	-	6	-	-	-	-	6	6	6	6	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	19	-	-	5	-	-	-	-	7	5	5	5	-	7	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	4	-	-	-	-	4	4	4	4	-	4	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	3	-	-	-	-	3	3	3	3	-	3	8	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	2	-	-	-	-	10	2	2	2	-	2	6	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-
2.75	1.75	-	-	-	1	-	-	-	-	11	1	1	1	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

< WINDOW >		O R I E N T A T I O N S															
		<<<<<<				>>>>>>											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5			2									2			5
.75	1.25	6															6
.75	1.50	7															7
.75	1.75	8															8
1.00	1.00	9				3									4		
1.00	1.25	10															
1.00	1.50	11															
1.00	1.75	12															
1.25	1.00	13				4						8					
1.25	1.25	14															
1.25	1.50	15															
1.25	1.75	16															
1.50	1.00	17				5								7			
1.50	1.25	18															
1.50	1.50	19															
1.50	1.75	20															
1.75	1.00	21				6											
1.75	1.25	22															
1.75	1.50	23															
1.75	1.75	24															
2.00	1.00	25				7											
2.00	1.25	26															
2.00	1.50	27															
2.00	1.75	28															
2.25	1.00	29				8											
2.25	1.25	30															
2.25	1.50	31															
2.25	1.75	32															
2.50	1.00	33				9										3	
2.50	1.25	34								4							
2.50	1.50	35															
2.50	1.75	36															
2.75	1.00	37			2	10										2	
2.75	1.25	38								2							
2.75	1.50	39															
2.75	1.75	40				11											1
3.00	1.00	41			1												
3.00	1.25	42								3							
3.00	1.50	43								1							
3.00	1.75	44															
3.00	1.75	45															

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< W I N D O W >		O R I E N T A T I O N S												>>			
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	-	1	1	1	1	-	-	-	-	-	1	-	1
.50	1.25	2	2	2	-	2	2	2	2	-	-	-	-	-	-	-	2
.50	1.50	3	3	3	-	23	3	3	3	-	-	-	-	-	-	-	3
.50	1.75	4	4	4	-	-	4	4	4	-	-	-	-	-	-	-	4
.75	1.00	5	-	-	-	3	5	5	5	-	-	-	-	-	2	-	5
.75	1.25	6	-	-	-	4	6	6	6	-	-	-	-	-	-	-	6
.75	1.50	7	-	-	-	24	7	7	7	-	-	-	-	-	-	-	7
.75	1.75	8	-	-	-	-	8	8	8	-	-	-	-	-	-	-	8
1.00	1.00	9	-	-	-	5	9	9	9	-	-	-	-	-	3	-	9
1.00	1.25	10	-	-	-	6	-	-	14	-	-	-	-	-	-	-	10
1.00	1.50	11	-	-	-	25	-	-	20	-	-	-	-	-	-	-	11
1.00	1.75	12	-	-	-	7	-	-	21	-	-	-	-	-	-	-	12
1.25	1.00	13	-	-	-	8	-	-	10	-	-	-	-	-	4	-	13
1.25	1.25	14	-	-	-	-	-	-	19	-	-	-	-	-	-	-	14
1.25	1.50	15	-	-	-	26	-	-	22	-	-	-	-	-	-	-	15
1.25	1.75	16	-	-	-	-	-	-	24	-	-	-	-	-	-	-	16
1.50	1.00	17	-	-	-	9	-	-	11	-	-	-	-	-	5	-	17
1.50	1.25	18	-	-	-	10	-	-	23	-	-	-	-	-	-	-	18
1.50	1.50	19	-	-	-	27	-	-	-	-	-	-	-	-	-	-	19
1.50	1.75	20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
1.75	1.00	21	-	-	-	11	-	-	12	-	-	-	-	-	-	-	21
1.75	1.25	22	-	-	-	12	-	-	-	-	-	-	-	-	-	-	22
1.75	1.50	23	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
1.75	1.75	24	-	-	-	13	-	-	13	-	-	-	-	-	-	-	24
2.00	1.00	25	-	-	-	14	-	-	-	-	-	-	-	-	-	-	25
2.00	1.25	26	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
2.00	1.50	27	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
2.00	1.75	28	-	-	-	15	-	-	15	-	-	-	-	-	-	-	28
2.25	1.00	29	-	-	-	16	-	-	-	-	-	-	-	-	-	-	29
2.25	1.25	30	-	-	-	17	-	-	-	-	-	-	-	-	-	-	30
2.25	1.50	31	-	-	-	18	-	-	-	-	-	-	-	-	-	-	31
2.25	1.75	32	-	-	-	17	-	-	16	-	-	-	-	-	-	-	32
2.50	1.00	33	-	-	-	18	-	-	-	-	-	-	-	-	-	-	33
2.50	1.25	34	-	-	-	-	-	-	-	-	-	-	-	-	-	-	34
2.50	1.50	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	35
2.50	1.75	36	-	-	-	-	-	-	-	-	-	-	-	-	-	-	36
2.75	1.00	37	-	-	-	19	-	-	17	-	-	-	-	-	-	-	37
2.75	1.25	38	-	-	-	20	-	-	-	-	-	-	-	-	10	-	38
2.75	1.50	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	39
2.75	1.75	40	-	-	-	2	-	-	-	-	-	-	-	-	-	-	40
3.00	1.00	41	-	-	-	21	-	-	18	-	-	-	-	-	-	-	41
3.00	1.25	42	-	-	-	22	-	-	-	-	-	-	-	-	-	-	42
3.00	1.50	43	-	-	-	3	-	-	-	-	-	-	-	-	-	-	43
3.00	1.75	44	-	-	-	1	-	-	-	-	-	-	-	-	-	-	44

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

C W I N D O W >		<<-----<<												>>----->>											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5								
.50	1.00	1	1	1	1	1	1	1	1	33	1	37	19	38	1	1	1								
.50	1.25	2	2	2	3	12	2	2	3	31	5	42	41	42	3	2	2								
.50	1.50	3	3	3	5	23	3	3	4	32	11	43	43	43	13	3	3								
.50	1.75	4	4	4	11	31	4	4	0	44	18	44	44	44	16	5	4								
.75	1.00	5	5	5	2	2	5	5	2	28	2	19	10	17	2	4	5								
.75	1.25	6	6	6	8	13	6	6	6	19	14	35	30	36	14	8	6								
.75	1.50	7	7	7	17	24	8	7	10	30	20	40	39	40	20	13	7								
.75	1.75	8	8	8	24	35	9	8	14	43	30	41	42	41	28	18	8								
1.00	1.00	9	9	9	4	3	7	9	5	18	3	12	9	9	4	6	9								
1.00	1.25	10	10	10	16	14	11	10	11	17	16	31	22	28	15	15	13								
1.00	1.50	11	11	12	22	25	13	12	18	29	25	38	36	37	26	20	19								
1.00	1.75	12	12	14	30	36	16	13	23	42	35	39	40	39	34	26	21								
1.25	1.00	13	13	11	6	4	10	11	7	16	4	8	8	8	5	7	10								
1.25	1.25	14	14	15	10	15	15	15	16	14	15	22	18	21	17	19	20								
1.25	1.50	15	16	18	28	26	20	17	22	27	24	33	32	33	27	25	23								
1.25	1.75	16	17	22	35	37	25	20	28	41	33	36	38	35	37	31	27								
1.50	1.00	17	15	13	7	5	12	14	9	15	6	7	7	7	6	9	11								
1.50	1.25	18	19	19	19	16	19	18	21	12	17	17	17	16	18	21	22								
1.50	1.50	19	21	25	29	27	26	23	26	26	28	29	27	29	29	30	28								
1.50	1.75	20	24	28	38	38	31	28	33	40	37	34	37	34	38	35	33								
1.75	1.00	21	18	16	9	6	14	16	12	13	7	6	6	6	7	10	12								
1.75	1.25	22	22	23	20	17	24	22	24	10	19	15	16	15	19	22	24								
1.75	1.50	24	26	29	31	28	29	29	31	25	29	26	26	24	30	32	32								
1.75	1.75	25	29	34	39	39	35	32	36	39	39	32	35	32	39	39	36								
2.00	1.00	23	20	17	10	7	17	19	13	11	8	5	5	5	8	11	14								
2.00	1.25	26	27	27	21	18	27	27	25	8	21	14	15	14	21	23	25								
2.00	1.50	28	32	32	32	29	33	33	34	24	31	23	25	23	31	33	34								
2.00	1.75	30	34	37	40	40	38	37	40	38	40	30	34	31	40	40	40								
2.25	1.00	27	23	20	12	8	18	21	15	9	9	4	4	4	9	12	15								
2.25	1.25	31	31	30	23	19	28	30	27	5	22	13	14	13	22	24	26								
2.25	1.50	33	35	36	33	30	36	35	35	23	32	21	24	22	32	34	35								
2.25	1.75	36	39	40	41	41	41	39	41	37	41	28	33	30	41	41	41								
2.50	1.00	29	25	21	13	9	21	24	17	7	10	3	3	3	10	14	16								
2.50	1.25	34	33	31	25	20	30	31	29	3	23	11	13	12	23	27	29								
2.50	1.50	37	38	38	34	32	37	38	37	22	34	20	23	20	33	36	37								
2.50	1.75	39	41	42	42	42	42	42	42	36	42	27	31	27	42	42	42								
2.75	1.00	32	28	24	14	10	22	25	19	6	12	2	2	2	11	16	17								
2.75	1.25	38	36	33	26	21	32	34	30	2	26	10	12	11	24	28	30								
2.75	1.50	41	40	39	36	33	39	40	38	21	36	18	21	19	35	37	38								
2.75	1.75	42	43	43	43	43	43	43	43	35	43	25	29	26	43	43	43								
3.00	1.00	35	30	26	15	11	23	26	20	4	13	1	1	1	12	17	18								
3.00	1.25	40	37	35	27	22	34	36	32	1	27	9	11	10	25	29	31								
3.00	1.50	43	42	41	37	34	40	41	39	20	38	16	20	18	36	38	39								
										34	44	24	28	25	44	44	44								

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

Width-M	Height-M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	17	44	22	15	20	40	1	1	1
.50	1.25	2	2	2	2	12	2	2	15	43	18	41	36	42	11	2	2
.50	1.50	3	3	3	3	23	3	3	13	42	14	43	43	43	13	3	3
.50	1.75	4	4	4	4	34	4	4	12	41	13	44	44	44	16	4	4
.75	1.00	5	5	5	5	2	5	5	11	40	11	10	10	19	2	5	5
.75	1.25	6	6	6	6	13	6	6	3	39	8	31	21	36	14	7	6
.75	1.50	7	7	7	7	24	7	7	16	38	15	40	40	39	20	12	7
.75	1.75	8	8	8	8	35	8	8	21	36	27	42	42	41	27	19	8
1.00	1.00	9	9	9	9	3	9	9	7	37	10	9	9	10	3	6	9
1.00	1.25	10	10	10	10	14	10	10	14	35	12	23	19	25	15	13	18
1.00	1.50	11	11	11	11	25	11	11	20	33	26	36	34	35	26	22	19
1.00	1.75	12	12	12	12	36	12	12	26	31	34	39	41	38	31	29	21
1.25	1.00	13	13	11	11	4	11	12	4	34	9	8	8	8	4	8	10
1.25	1.25	14	14	15	14	15	14	14	18	32	16	19	18	22	17	18	20
1.25	1.50	15	15	17	16	26	16	16	23	29	28	34	29	31	28	28	29
1.25	1.75	16	17	21	25	37	17	17	31	26	37	38	39	37	32	32	31
1.50	1.00	17	16	13	12	5	12	15	1	30	7	7	7	7	5	9	11
1.50	1.25	18	18	18	18	16	18	18	17	27	17	18	17	16	18	20	22
1.50	1.50	19	20	24	26	27	26	23	28	24	29	29	28	26	29	30	30
1.50	1.75	20	23	28	31	38	27	27	34	21	38	37	38	34	38	36	34
1.75	1.00	21	19	16	15	6	17	17	2	28	6	6	6	6	6	10	12
1.75	1.25	22	22	22	22	17	22	22	22	23	19	17	16	15	19	21	23
1.75	1.50	23	25	30	29	28	29	29	32	18	30	26	27	24	30	31	23
1.75	1.75	24	29	34	35	39	35	32	37	15	39	35	37	33	39	39	32
2.00	1.00	25	21	19	17	7	17	20	5	25	5	5	5	5	7	11	13
2.00	1.25	26	26	27	27	18	27	26	24	20	20	16	15	14	21	23	24
2.00	1.50	28	32	32	33	29	33	33	33	14	31	25	26	23	32	33	33
2.00	1.75	29	34	37	38	40	38	37	39	10	40	33	35	32	40	40	40
2.25	1.00	27	24	20	19	8	19	21	6	22	1	4	4	4	8	14	14
2.25	1.25	31	30	29	28	19	20	30	25	16	21	14	14	13	22	24	25
2.25	1.50	32	35	36	36	30	35	35	35	11	32	24	25	21	34	34	35
2.25	1.75	35	39	40	41	41	39	39	41	6	41	32	33	30	41	41	41
2.50	1.00	30	27	23	21	9	24	24	8	19	2	3	3	3	9	15	15
2.50	1.25	34	33	31	25	20	31	31	27	12	23	13	13	12	23	25	26
2.50	1.50	37	38	38	35	31	37	38	36	8	33	22	24	20	34	35	36
2.50	1.75	39	41	42	42	42	42	42	42	4	42	30	32	29	42	42	42
2.75	1.00	33	28	25	13	10	22	25	9	17	3	2	2	2	10	16	16
2.75	1.25	38	36	33	26	21	32	34	29	9	24	12	12	11	24	26	27
2.75	1.50	41	40	39	36	32	39	40	38	5	35	21	23	18	35	37	37
2.75	1.75	42	43	43	43	43	43	43	43	2	43	28	31	28	43	43	43
3.00	1.00	36	31	26	15	11	24	28	10	13	4	1	1	1	12	17	17
3.00	1.25	40	37	35	27	22	34	36	30	7	25	11	11	9	25	27	28
3.00	1.50	43	42	41	37	33	40	41	40	3	36	20	22	17	36	38	38
3.00	1.75	44	44	44	44	44	44	44	44	1	44	27	30	27	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	1	-	-	-	1	1	1
.50	1.25	2	2	2	2	2	2	2	-	-	-	-	-	-	2	2	2
.50	1.50	3	3	3	3	3	3	3	-	-	-	-	-	-	-	-	3
.50	1.75	4	4	4	4	4	4	4	-	-	-	-	-	-	-	-	4
.75	1.00	-	-	2	2	2	-	-	10	2	-	-	-	-	2	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	3	-	-	-	9	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	4	-	-	-	8	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	8	8	9	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	7	7	7	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	-	-	-	1	1	1
.50	1.25	2	2	2	2	2	2	2	-	-	-	-	-	-	2	2	2
.50	1.50	3	3	3	3	3	3	3	-	-	-	-	-	-	3	3	3
.50	1.75	4	4	4	4	4	4	4	-	-	-	-	-	-	4	4	4
.75	1.00	5	-	2	-	2	-	-	-	-	-	-	-	-	2	-	5
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8
1.00	1.00	-	-	-	-	3	-	-	-	-	-	-	-	-	4	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	-	-	-	7	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	-	-	6	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	-	-	-	-	-	5	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	-	-	-	4	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	9	-	-	-	-	-	3	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	-	-	-	-	-	2	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	11	-	-	-	-	-	1	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< WINDOW >		DIRECTION												>>			
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	-	-	-	-	-	-	1	1	1
.50	1.25	2	2	3	3	2	2	2	-	-	-	-	-	-	2	2	2
.50	1.50	3	3	4	4	3	3	3	-	-	-	-	-	-	3	3	3
.50	1.75	4	4	4	4	4	4	4	-	-	-	-	-	-	4	4	4
.75	1.00	5	-	2	2	2	2	2	-	-	-	-	-	-	2	2	2
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	-	3	-	-	-	-	-	-	-	3	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	18
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	19
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21
1.25	1.00	-	-	-	-	4	-	-	-	-	-	8	-	4	-	-	10
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	1	-	-	7	-	5	-	-	11
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	22
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	6	-	6	-	-	12
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	23
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	5	-	5	-	-	13
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	24
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	-	-	1	4	-	4	-	-	14
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	25
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	9	-	-	-	-	-	3	-	3	-	-	15
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	26
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	-	-	-	-	-	2	-	2	-	-	16
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	27
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	11	-	-	-	-	-	1	-	1	-	-	17
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	28
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

C U I N D O W >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	1	1	18	41	1	1	1
.50	1.25	2	2	2	12	2	2	2	2	12	3	2	38	42	2	2	2
.50	1.50	3	3	3	23	3	3	3	3	23	4	4	43	43	3	3	3
.50	1.75	4	4	4	26	4	4	4	4	27	7	6	44	44	4	4	4
.75	1.00	5	5	5	2	5	5	5	5	10	2	3	10	31	5	5	5
.75	1.25	6	6	6	13	6	6	6	6	13	6	7	27	37	6	6	6
.75	1.50	7	7	7	24	8	8	8	8	24	10	12	39	39	9	9	7
.75	1.75	8	8	8	35	9	9	10	10	35	16	19	42	40	12	12	9
1.00	1.00	9	9	9	3	9	7	7	7	9	5	5	9	17	4	7	8
1.00	1.25	10	10	10	14	10	11	11	11	14	13	13	20	32	16	11	11
1.00	1.50	11	11	12	25	12	13	15	15	25	20	21	35	36	22	17	13
1.00	1.75	12	13	27	36	16	16	19	19	36	25	26	41	38	30	22	16
1.25	1.00	13	12	6	4	10	10	9	8	8	8	8	8	11	5	8	10
1.25	1.25	14	14	18	15	15	15	16	16	15	19	18	19	24	18	16	14
1.25	1.50	15	16	28	27	20	17	23	23	26	24	24	30	33	28	23	20
1.25	1.75	16	18	33	37	25	21	26	26	37	32	32	40	35	34	28	25
1.50	1.00	17	15	7	5	12	13	12	12	7	9	9	7	7	7	10	12
1.50	1.25	18	19	19	16	19	19	21	21	16	21	20	17	19	19	19	19
1.50	1.50	20	21	30	28	26	24	27	27	28	28	30	28	29	29	27	27
1.50	1.75	21	24	30	38	30	28	32	32	38	35	35	37	34	30	33	32
1.75	1.00	19	17	9	6	14	16	13	13	6	11	10	6	6	8	13	15
1.75	1.25	23	22	20	17	23	23	24	24	17	22	22	16	14	20	24	24
1.75	1.50	25	27	31	29	29	29	30	30	29	31	31	26	26	31	31	30
1.75	1.75	27	31	39	39	35	33	36	36	39	37	39	36	30	36	36	36
2.00	1.00	22	20	10	7	17	18	14	14	5	12	11	5	5	9	14	17
2.00	1.25	26	26	23	18	27	27	25	25	18	23	23	15	13	21	25	26
2.00	1.50	30	32	32	30	33	32	33	33	30	33	33	25	21	32	34	34
2.00	1.75	33	36	40	40	38	37	38	38	40	39	40	34	28	40	40	39
2.25	1.00	24	23	12	8	18	20	17	17	4	14	14	4	4	11	15	18
2.25	1.25	31	30	24	19	31	30	28	28	19	26	25	14	12	23	26	28
2.25	1.50	35	35	34	31	36	36	35	35	31	34	34	24	20	33	35	35
2.25	1.75	37	39	41	41	41	41	40	40	41	41	41	33	27	41	41	41
2.50	1.00	28	25	13	9	21	22	10	10	3	15	15	3	3	12	18	21
2.50	1.25	34	33	25	20	31	31	29	29	20	27	27	13	10	25	29	29
2.50	1.50	38	38	35	32	37	38	37	37	32	36	36	23	18	35	37	37
2.50	1.75	41	41	42	42	42	42	42	42	42	42	42	32	25	42	42	42
2.75	1.00	29	24	14	10	22	22	20	20	2	17	16	2	2	13	19	22
2.75	1.25	36	33	26	21	32	32	31	31	21	29	28	12	9	26	30	31
2.75	1.50	40	40	36	33	39	39	39	39	33	38	37	22	16	36	38	38
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	31	23	43	43	43
3.00	1.00	32	29	15	11	24	26	22	22	1	18	17	1	1	14	20	23
3.00	1.25	39	37	27	22	34	34	34	34	22	30	29	11	8	27	32	33
3.00	1.50	42	42	37	34	41	41	41	41	34	40	38	21	15	37	39	40

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

<-----<< < WINDOW > ----->>----->

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	33	1	1	11	40	1	1	1
.50	1.25	2	2	2	3	12	2	2	3	31	3	2	30	42	3	2	2
.50	1.50	3	3	3	5	23	3	3	4	32	6	3	42	43	6	3	3
.50	1.75	4	4	4	11	31	4	4	8	44	11	5	44	44	15	4	4
.75	1.00	5	5	5	2	2	5	5	2	27	2	4	10	27	2	5	5
.75	1.25	6	6	6	8	13	6	6	6	19	7	7	21	37	10	7	6
.75	1.50	7	7	7	17	24	8	7	10	30	15	11	38	39	18	9	7
.75	1.75	8	8	8	24	35	9	8	14	43	20	18	43	41	27	12	8
1.00	1.00	9	9	9	4	3	7	9	5	18	4	6	9	14	4	6	9
1.00	1.25	10	10	10	16	14	11	10	11	17	13	13	20	31	16	11	11
1.00	1.50	11	11	12	22	25	13	12	18	29	21	20	31	36	24	20	13
1.00	1.75	12	12	14	30	36	16	13	23	42	29	25	41	38	31	22	15
1.25	1.00	13	13	11	6	4	10	11	7	16	5	8	8	8	5	8	10
1.25	1.25	14	14	15	18	15	15	15	16	14	18	19	19	22	17	17	16
1.25	1.50	15	15	18	28	26	20	17	22	28	23	24	29	33	28	24	22
1.25	1.75	16	16	22	35	37	25	20	28	41	32	31	40	35	37	29	25
1.50	1.00	17	17	13	7	5	12	14	9	15	8	9	7	7	7	10	12
1.50	1.25	18	19	19	17	16	19	18	21	12	19	21	18	18	19	21	20
1.50	1.50	19	21	25	29	27	26	23	26	26	27	29	28	29	27	27	26
1.50	1.75	20	24	28	38	38	31	28	33	40	34	34	39	34	38	34	31
1.75	1.00	21	18	16	9	6	14	16	12	13	9	10	6	6	8	13	14
1.75	1.25	22	22	23	20	17	24	22	24	10	22	22	17	15	20	23	24
1.75	1.50	24	26	29	31	28	29	29	31	25	31	32	27	25	30	32	30
1.75	1.75	25	29	34	39	39	35	32	36	39	39	38	37	32	39	37	35
2.00	1.00	23	20	17	10	7	17	19	13	11	10	12	5	5	9	14	17
2.00	1.25	27	27	27	21	18	27	27	25	8	24	23	16	13	21	25	27
2.00	1.50	28	32	32	32	29	33	33	34	24	33	33	26	21	32	33	34
2.00	1.75	31	34	37	40	40	38	37	40	38	40	40	36	30	40	40	38
2.25	1.00	26	23	20	12	8	18	21	15	9	12	14	4	4	11	15	18
2.25	1.25	30	31	30	23	19	28	30	27	5	25	26	15	12	22	26	28
2.25	1.50	33	35	36	33	30	36	35	35	23	35	35	25	20	33	35	36
2.25	1.75	36	39	40	41	41	41	37	41	37	41	41	35	28	41	41	41
2.50	1.00	29	25	21	13	9	21	24	17	7	14	15	3	3	12	16	19
2.50	1.25	34	33	31	25	20	30	31	27	3	26	27	14	11	23	28	29
2.50	1.50	38	38	34	34	32	37	38	37	22	36	36	24	19	34	36	37
2.50	1.75	40	41	42	42	42	42	42	42	36	42	42	34	26	42	42	42
2.75	1.00	32	24	14	10	10	22	25	19	6	16	16	2	2	13	18	21
2.75	1.25	37	36	26	21	21	32	34	30	2	28	28	13	10	25	30	32
2.75	1.50	41	40	36	33	33	39	40	38	21	37	37	23	17	35	38	39
2.75	1.75	42	43	43	43	43	43	43	43	35	43	43	33	24	43	43	43
3.00	1.00	35	30	26	15	11	27	26	20	4	17	17	1	1	14	19	23
3.00	1.25	39	37	27	22	22	34	36	32	1	30	30	12	7	26	31	33
3.00	1.50	43	42	37	34	34	40	41	39	20	38	39	22	16	36	39	40
3.00	1.75	44	44	44	44	44	44	44	44	34	44	44	32	23	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

<<-----<< < W I N D O W > ----->>>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	17	44	18	1	11	41	1	1	1
.50	1.25	2	2	2	3	12	2	2	15	43	17	12	22	42	3	2	2
.50	1.50	3	3	3	6	23	3	3	13	42	14	21	41	43	10	3	3
.50	1.75	4	4	4	14	34	4	4	12	41	13	31	44	44	15	4	4
.75	1.00	5	5	5	2	2	5	5	11	40	11	2	10	30	2	5	5
.75	1.25	6	6	6	11	13	6	6	2	39	4	23	21	37	14	6	6
.75	1.50	7	7	7	17	24	7	7	16	38	15	39	32	39	18	8	7
.75	1.75	8	8	8	22	35	8	8	20	36	23	44	43	40	27	12	8
1.00	1.00	9	9	9	4	3	9	9	7	37	10	7	9	15	4	7	9
1.00	1.25	10	10	10	16	14	10	10	14	35	12	22	20	31	16	11	10
1.00	1.50	11	11	12	23	25	11	11	21	33	20	37	31	35	25	19	12
1.00	1.75	12	12	14	30	36	16	13	26	30	29	43	42	38	30	23	14
1.25	1.00	13	13	11	5	4	11	12	4	34	6	10	8	10	5	9	11
1.25	1.25	14	14	15	18	15	14	14	18	31	16	20	19	22	17	16	15
1.25	1.50	15	15	17	28	26	20	16	23	28	24	35	30	33	28	24	21
1.25	1.75	16	17	21	34	37	25	19	31	25	32	42	40	36	35	31	25
1.50	1.00	17	16	13	7	5	12	15	1	32	1	11	7	7	6	10	13
1.50	1.25	18	18	18	17	16	18	18	19	27	17	19	18	19	19	21	20
1.50	1.50	19	20	24	29	27	26	23	28	23	30	33	29	28	29	29	27
1.50	1.75	20	23	28	30	38	31	27	34	17	36	41	39	34	38	34	32
1.75	1.00	21	19	16	8	6	15	17	3	29	2	9	6	6	7	13	16
1.75	1.25	22	22	22	20	17	23	22	22	24	21	18	17	14	20	22	24
1.75	1.50	23	25	30	31	28	29	29	32	18	31	29	28	24	31	32	31
1.75	1.75	24	29	34	39	39	35	32	37	13	39	40	38	32	39	37	35
2.00	1.00	25	21	19	9	7	17	20	5	26	3	8	5	5	8	14	17
2.00	1.25	26	26	27	21	18	27	26	24	21	22	17	16	13	21	25	26
2.00	1.50	28	32	32	32	29	33	33	33	15	33	28	27	21	32	33	34
2.00	1.75	29	34	37	40	40	30	37	39	9	40	38	37	29	40	40	38
2.25	1.00	27	24	20	10	8	19	21	6	22	5	6	4	4	9	15	18
2.25	1.25	31	30	29	24	19	28	30	25	16	25	16	15	12	22	26	28
2.25	1.50	33	35	36	33	30	36	35	35	11	34	27	26	20	33	35	36
2.25	1.75	36	39	40	41	41	41	39	41	6	41	36	36	27	41	41	41
2.50	1.00	30	27	23	12	9	21	24	8	20	7	5	3	3	11	17	19
2.50	1.25	34	33	31	25	20	30	31	27	12	26	15	14	11	23	27	29
2.50	1.50	37	38	38	35	31	37	38	36	8	35	26	25	18	34	36	37
2.50	1.75	39	41	42	42	42	42	42	42	4	42	34	35	26	42	42	42
2.75	1.00	32	28	25	13	10	22	25	9	17	8	4	2	2	12	18	22
2.75	1.25	38	36	33	26	21	32	34	29	10	27	14	13	9	24	28	30
2.75	1.50	41	40	39	36	32	39	40	38	5	37	25	24	17	36	38	39
2.75	1.75	42	43	43	43	43	43	43	43	2	43	32	34	25	43	43	43
3.00	1.00	35	31	26	15	11	24	28	10	14	9	3	1	1	13	20	23
3.00	1.25	40	37	35	27	22	34	36	30	7	28	13	12	8	26	30	33
3.00	1.50	43	42	41	37	33	40	41	40	3	38	24	23	16	39	40	40
3.00	1.75	44	44	44	44	44	44	44	44	1	44	30	33	23	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< WINDOW >		<<----->>----->>														
		N O R T H				E A S T				S O U T H			W E S T			
Width.M	Height.M	22.5	45.0	67.5	112.5	135.0	157.5	202.5	270.0	247.5	292.5	315.0	337.5			
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	1	1		
.50	1.25	2	2	-	2	2	-	-	2	-	-	2	2	2		
.50	1.50	3	3	-	3	3	-	-	-	-	-	3	3	3		
.50	1.75	4	4	-	4	4	-	-	-	-	-	-	4	4		
.75	1.00	-	-	2	-	-	10	-	-	-	2	-	-	-		
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-		
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.00	1.00	-	-	-	-	-	-	-	-	9	-	-	-	-		
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.25	1.00	-	-	-	-	-	-	-	-	8	-	-	-	-		
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.50	1.00	-	-	-	-	-	-	-	-	7	-	-	-	-		
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.75	1.00	-	-	-	-	-	-	-	-	6	-	-	-	-		
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-		
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.00	1.00	-	-	-	-	-	-	-	-	5	-	-	-	-		
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.25	1.00	-	-	-	-	-	-	-	-	4	-	-	-	-		
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.50	1.00	-	-	-	-	-	-	-	-	3	-	-	-	-		
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.75	1.00	-	-	-	-	-	-	-	-	2	-	-	-	-		
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-		
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-		
3.00	1.00	-	-	-	-	-	-	-	-	1	-	-	-	-		
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-		
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	-	-	1	1	1
.50	1.25	2	2	2	2	2	2	2	-	-	2	2	-	-	2	2	2
.50	1.50	3	3	3	3	3	3	3	-	-	-	-	-	-	3	3	3
.50	1.75	4	4	4	4	4	4	4	-	-	-	-	-	-	4	4	4
.75	1.00	5	-	2	2	-	-	-	-	-	-	10	-	-	2	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	3	-	-	-	-	-	-	9	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	4	-	-	-	-	-	-	8	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	-	-	-	-	7	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	-	-	-	6	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	-	-	-	-	-	-	5	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	-	-	-	-	4	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	9	-	-	-	-	-	-	3	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	-	-	-	-	-	-	2	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	11	-	-	-	-	-	-	1	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	-	-	1	1	1
.50	1.25	2	2	3	-	-	2	2	-	-	-	-	-	-	2	2	2
.50	1.50	3	3	-	-	-	3	3	-	-	-	-	-	-	3	3	3
.50	1.75	4	4	-	-	-	4	4	-	-	-	-	-	-	4	4	4
.75	1.00	5	-	2	-	2	-	5	-	-	-	-	10	-	-	5	5
.75	1.25	6	-	-	-	-	-	6	-	-	-	-	-	-	-	6	6
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	8	8
1.00	1.00	9	-	-	-	3	-	-	-	-	-	-	9	-	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	4	-	-	-	-	-	-	8	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	1	-	1	-	7	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

Window		Orientation										Rank					
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	1	1	15	41	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	12	3	2	34	42	3	2	2
.50	1.50	3	3	3	3	3	3	3	3	23	4	3	42	43	5	3	3
.50	1.75	4	4	4	4	4	4	4	4	27	7	5	44	44	11	4	4
.75	1.00	5	5	5	3	3	5	5	5	10	2	4	10	36	2	5	5
.75	1.25	6	6	6	8	7	6	6	6	13	6	7	25	38	8	6	6
.75	1.50	7	7	7	17	12	8	8	8	24	10	9	39	39	17	9	7
.75	1.75	8	8	8	20	19	10	10	10	35	16	13	43	40	21	12	9
1.00	1.00	9	9	8	4	5	7	7	7	9	5	6	9	27	4	7	8
1.00	1.25	10	10	10	16	13	11	11	11	14	13	11	20	33	16	11	11
1.00	1.50	11	11	12	22	21	12	12	12	25	20	19	35	35	22	17	13
1.00	1.75	12	13	15	29	26	16	16	16	36	25	22	41	37	29	22	16
1.25	1.00	13	12	11	6	8	10	9	8	8	8	8	8	19	6	8	10
1.25	1.25	14	14	14	18	18	15	15	15	15	17	16	17	28	18	16	14
1.25	1.50	15	16	18	27	24	20	20	20	26	24	24	29	32	28	23	20
1.25	1.75	16	18	21	33	32	25	21	21	37	32	30	40	34	33	20	25
1.50	1.00	17	15	13	7	9	12	13	12	7	9	10	7	11	7	10	12
1.50	1.25	18	19	19	19	20	19	19	21	16	21	21	18	23	19	21	19
1.50	1.50	20	21	25	30	30	26	24	27	20	20	27	28	29	30	27	27
1.50	1.75	21	24	28	37	35	30	20	32	30	35	34	38	31	38	33	32
1.75	1.00	19	17	16	10	10	14	16	13	6	11	12	6	7	9	13	15
1.75	1.25	23	22	23	21	22	23	23	24	17	22	23	17	16	20	24	24
1.75	1.50	25	27	29	31	31	29	29	30	29	31	32	27	25	31	31	30
1.75	1.75	27	31	34	39	39	35	33	36	39	37	37	37	30	36	36	36
2.00	1.00	22	20	17	11	11	17	18	14	5	12	14	5	5	10	14	17
2.00	1.25	26	26	27	23	23	27	27	25	18	23	25	16	13	23	25	26
2.00	1.50	30	32	32	33	33	33	32	33	30	33	33	26	22	32	34	34
2.00	1.75	33	36	37	40	40	38	37	38	40	39	40	36	26	40	40	39
2.25	1.00	24	23	20	12	14	18	20	17	4	14	15	4	4	12	15	18
2.25	1.25	31	30	30	24	25	28	30	28	19	26	26	14	10	24	26	28
2.25	1.50	35	35	36	34	34	36	36	35	31	34	35	24	18	34	35	35
2.25	1.75	37	39	40	41	41	41	40	40	41	41	41	33	24	41	41	41
2.50	1.00	28	25	22	13	15	21	22	18	3	15	17	3	3	13	18	21
2.50	1.25	34	33	31	25	27	31	31	29	20	27	28	13	9	25	29	29
2.50	1.50	38	38	38	35	36	37	38	37	32	36	36	23	15	35	37	37
2.50	1.75	41	41	42	42	42	42	42	42	42	42	42	32	21	42	42	42
2.75	1.00	29	28	24	14	16	22	25	20	2	17	10	2	2	14	19	22
2.75	1.25	36	34	26	26	28	32	34	31	21	27	29	12	8	26	30	31
2.75	1.50	40	40	36	36	37	39	43	39	33	38	38	22	14	36	38	38
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	31	20	43	43	43
3.00	1.00	32	29	26	15	17	24	26	22	1	18	20	1	1	15	20	23
3.00	1.25	39	37	35	20	29	34	35	34	22	30	31	11	6	27	32	33
3.00	1.50	43	42	38	28	38	40	41	41	34	40	39	21	12	37	39	40

WALL THICKNESS = 0.12 M

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

Width-M	Height-M	W I N D O W >											<<-----										
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5						
.50	1.00	1	1	1	1	1	1	1	33	1	1	11	41	1	1	1							
.50	1.25	2	2	2	2	2	3	31	3	3	22	42	2	3	2	2							
.50	1.50	3	3	3	3	3	4	32	6	6	41	43	3	5	3	3							
.50	1.75	4	4	4	4	4	8	44	11	11	44	44	4	11	4	4							
.75	1.00	5	5	5	5	5	2	27	2	2	10	35	5	2	5	5							
.75	1.25	6	6	6	6	6	5	19	7	7	21	38	6	8	7	6							
.75	1.50	7	7	7	7	7	10	30	15	15	34	39	7	17	9	7							
.75	1.75	8	8	8	8	8	14	43	20	20	43	40	8	24	12	8							
1.00	1.00	9	9	9	9	9	5	18	4	4	9	26	9	4	6	9							
1.00	1.25	10	10	10	10	10	11	17	13	13	20	33	10	16	11	11							
1.00	1.50	11	11	11	11	11	10	29	21	21	31	36	11	22	20	13							
1.00	1.75	12	12	12	12	12	23	42	27	27	42	37	12	30	22	15							
1.25	1.00	13	13	11	10	11	7	16	5	5	8	15	13	6	8	10							
1.25	1.25	14	14	15	15	15	16	14	10	10	19	28	14	18	17	16							
1.25	1.50	15	16	18	20	17	22	28	23	23	30	32	15	24	24	22							
1.25	1.75	16	17	22	34	32	28	41	32	32	40.	34	16	28	29	25							
1.50	1.00	17	15	13	7	9	9	15	15	8	7	9	17	10	10	12							
1.50	1.25	18	19	19	19	20	21	12	12	17	18	22	18	21	21	20							
1.50	1.50	19	21	25	29	30	26	26	26	27	29	29	19	27	27	26							
1.50	1.75	20	24	28	38	35	33	40	34	34	39	31	20	34	34	31							
1.75	1.00	21	18	16	10	10	12	13	9	9	6	6	20	13	14	14							
1.75	1.25	22	22	23	20	22	24	10	10	22	17	17	20	20	23	24							
1.75	1.50	24	26	29	31	31	31	36	31	31	28	25	31	32	32	30							
1.75	1.75	25	29	34	39	39	36	37	39	39	38	30	30	37	37	35							
2.00	1.00	23	20	17	11	17	13	11	11	10	5	5	10	10	14	17							
2.00	1.25	27	27	27	23	27	25	0	24	24	16	13	13	21	25	27							
2.00	1.50	28	32	32	33	33	34	0	33	33	27	21	21	33	33	34							
2.00	1.75	31	37	40	40	40	40	38	40	40	37	27	27	40	40	38							
2.25	1.00	26	20	20	12	14	15	9	9	12	4	4	12	15	15	18							
2.25	1.25	30	30	30	24	30	27	5	5	25	15	11	11	26	26	28							
2.25	1.50	33	35	36	33	35	35	23	35	35	26	18	18	35	35	36							
2.25	1.75	36	39	40	41	39	41	37	41	41	36	24	24	41	41	41							
2.50	1.00	29	25	21	13	24	17	7	7	14	3	3	3	13	16	19							
2.50	1.25	34	33	31	25	31	27	3	3	26	14	10	10	25	28	29							
2.50	1.50	38	38	38	35	38	37	22	36	36	25	16	16	34	36	37							
2.50	1.75	40	42	42	42	42	42	36	42	42	35	23	23	42	42	42							
2.75	1.00	32	28	24	14	25	19	6	6	16	2	2	2	14	18	21							
2.75	1.25	37	36	33	26	34	30	2	2	28	13	8	8	26	30	32							
2.75	1.50	41	40	39	36	40	38	21	37	37	24	14	14	36	38	39							
2.75	1.75	42	43	43	43	43	43	35	43	43	33	20	20	43	43	43							
3.00	1.00	35	30	26	15	26	20	4	4	17	1	1	1	15	19	23							
3.00	1.25	39	37	35	27	36	32	1	1	30	12	7	7	27	31	33							
3.00	1.50	43	42	41	37	41	39	20	38	38	23	12	12	39	39	40							
3.00	1.75	44	44	44	44	44	44	34	44	44	32	19	19	44	44	44							

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

WINDOW >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	17	44	18	1	1	41	1	1	1
.50	1.25	2	2	2	3	2	2	2	15	43	17	2	2	42	3	2	2
.50	1.50	3	3	3	5	4	3	3	13	42	14	3	3	43	6	3	3
.50	1.75	4	4	4	10	5	4	4	12	41	13	4	4	44	14	4	4
.75	1.00	5	5	5	2	3	5	5	11	40	11	5	5	36	2	5	5
.75	1.25	6	6	6	9	7	6	6	2	39	4	6	6	38	11	6	6
.75	1.50	7	7	7	17	11	7	7	16	38	15	8	8	39	17	8	7
.75	1.75	8	8	8	21	19	9	8	20	36	23	10	10	40	22	12	8
1.00	1.00	9	9	9	4	6	9	9	7	37	10	7	11	27	4	7	9
1.00	1.25	10	10	10	16	12	10	10	14	35	12	11	21	33	16	11	10
1.00	1.50	11	11	12	22	20	13	11	21	33	20	15	31	35	23	19	12
1.00	1.75	12	12	14	29	26	16	13	26	30	29	21	42	37	30	23	14
1.25	1.00	13	13	11	6	8	11	12	4	34	6	9	9	17	5	9	11
1.25	1.25	14	14	15	10	18	14	14	18	31	16	17	19	28	18	16	15
1.25	1.50	15	15	17	28	24	20	16	23	28	24	23	30	32	28	24	21
1.25	1.75	16	17	21	33	32	25	19	31	25	32	26	41	34	34	31	25
1.50	1.00	17	16	13	7	9	12	15	1	32	1	12	8	10	7	10	13
1.50	1.25	18	18	18	19	21	18	18	19	27	19	22	18	23	19	21	20
1.50	1.50	19	20	24	30	29	26	23	28	23	30	28	29	29	29	29	27
1.50	1.75	20	23	28	38	35	31	27	34	19	36	33	40	31	38	34	32
1.75	1.00	21	19	16	8	10	15	17	3	29	2	13	7	6	8	13	16
1.75	1.25	22	22	22	20	22	22	22	22	24	21	24	17	16	20	22	24
1.75	1.50	23	25	30	31	31	29	29	32	18	31	31	28	25	31	32	31
1.75	1.75	24	29	34	39	39	35	32	37	13	39	36	39	30	39	37	35
2.00	1.00	25	21	19	11	13	17	20	5	26	3	14	6	5	9	14	17
2.00	1.25	26	26	27	23	23	27	26	24	21	22	25	16	13	21	25	26
2.00	1.50	28	32	32	32	33	33	33	33	15	33	34	27	21	32	33	34
2.00	1.75	29	34	37	40	40	38	37	39	9	40	39	38	26	40	40	38
2.25	1.00	27	24	20	12	14	19	21	6	22	5	16	5	4	10	15	18
2.25	1.25	31	30	29	24	25	28	30	25	16	25	27	15	11	24	26	28
2.25	1.50	33	35	36	34	34	36	35	35	11	34	35	26	18	33	35	36
2.25	1.75	36	39	40	41	41	41	39	41	6	41	41	37	24	41	41	41
2.50	1.00	30	23	23	13	15	24	24	8	20	7	18	4	3	12	17	19
2.50	1.25	34	31	31	25	27	30	31	27	12	26	29	14	9	25	27	29
2.50	1.50	37	38	38	35	36	37	38	36	8	42	37	25	15	35	36	37
2.50	1.75	39	41	42	42	42	42	42	42	4	42	42	36	22	42	42	42
2.75	1.00	32	25	16	14	16	22	25	9	17	8	19	3	2	13	18	22
2.75	1.25	38	33	26	26	28	32	34	29	10	27	30	13	8	26	28	30
2.75	1.50	41	39	36	36	37	39	40	38	5	37	38	24	14	36	38	39
2.75	1.75	42	43	43	43	43	43	43	43	2	43	43	35	20	43	43	43
3.00	1.00	35	31	26	15	17	24	28	10	14	9	20	2	1	15	20	23
3.00	1.25	40	37	27	27	30	34	36	30	7	28	32	12	7	27	30	33
3.00	1.50	43	42	37	37	38	40	41	40	3	38	40	23	12	37	39	40
3.00	1.75	44	44	44	44	44	44	44	44	1	44	44	34	19	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

Width.M	Height.M	DIRECTION															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5		3								10		2			
.75	1.25	6															
.75	1.50	7															
.75	1.75	8															
1.00	1.00											9					
1.00	1.25																
1.00	1.50																
1.00	1.75																
1.25	1.00											8					
1.25	1.25																
1.25	1.50																
1.25	1.75																
1.50	1.00																
1.50	1.25																
1.50	1.50																
1.50	1.75																
1.75	1.00																
1.75	1.25																
1.75	1.50																
1.75	1.75																
2.00	1.00																
2.00	1.25																
2.00	1.50																
2.00	1.75																
2.25	1.00																
2.25	1.25																
2.25	1.50																
2.25	1.75																
2.50	1.00																
2.50	1.25																
2.50	1.50																
2.50	1.75																
2.75	1.00																
2.75	1.25																
2.75	1.50																
2.75	1.75																
3.00	1.00																
3.00	1.25																
3.00	1.50																
3.00	1.75																

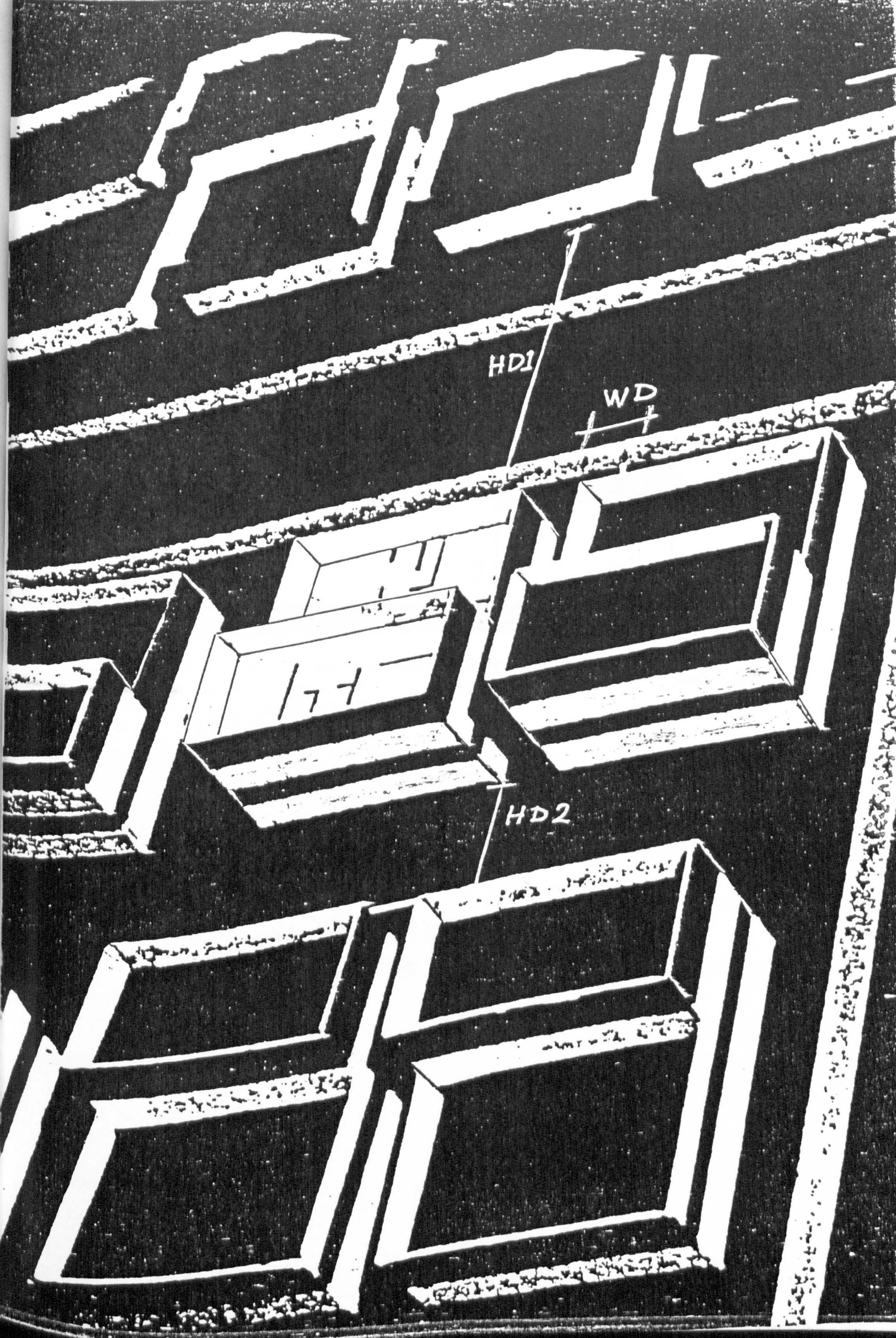
TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< WINDOW >		-----<<												>>-----											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5								
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	1	-	1	1	1								
.50	1.25	2	2	2	2	2	2	2	-	-	-	-	-	-	3	2	2								
.50	1.50	3	3	3	3	3	3	3	-	-	-	-	-	-	-	3	3								
.50	1.75	4	4	4	4	4	4	4	-	-	-	-	-	-	-	4	4								
.75	1.00	5	-	2	-	-	-	5	-	-	-	10	-	-	2	-	5								
.75	1.25	6	-	-	-	-	-	6	-	-	-	-	-	-	-	-	6								
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7								
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8								
1.00	1.00	9	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-								
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-								
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.50	1.00	-	-	-	-	-	-	-	1	-	1	-	8	-	-	-	-								
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

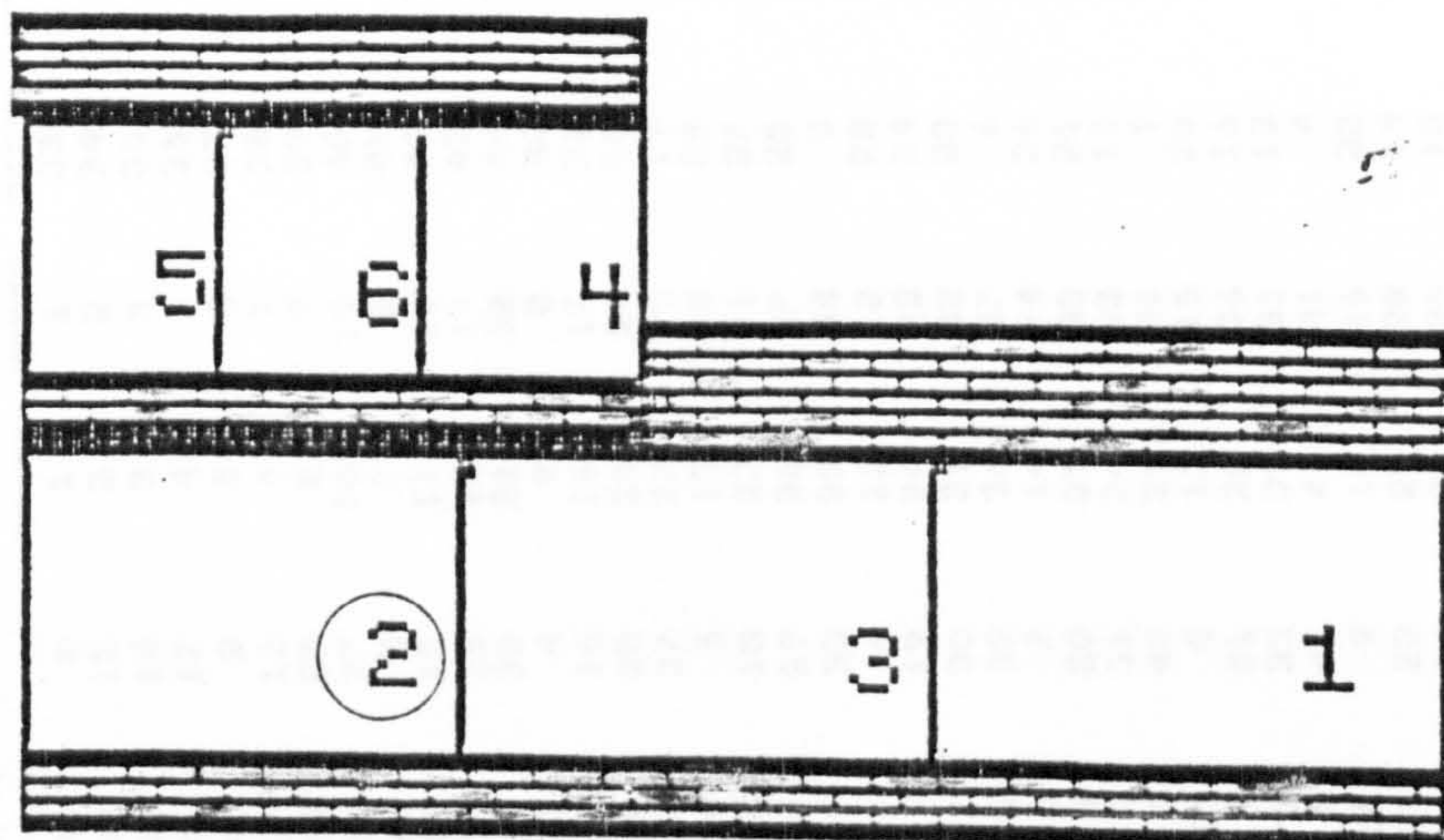


HD1

WD

HD2

177



Key diagram showing the location
of window data . . .



Side Wall No. 2
1 1/2 Storey

Interhouse Distance
1, 2, 3 and 4m.

< W I N D O W >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	37	37	1	33	1	44	1	1	1	33	1	1	1	1
.50	1.25	2	2	38	38	2	34	12	43	12	2	2	34	2	3	2	2
.50	1.50	3	3	39	39	3	35	23	42	14	3	3	35	3	6	3	3
.50	1.75	4	4	40	40	4	36	34	41	17	4	4	36	4	15	4	4
.75	1.00	5	5	41	41	5	37	2	40	2	5	4	37	5	2	5	5
.75	1.25	6	6	42	42	6	38	13	37	13	6	7	38	6	10	6	6
.75	1.50	7	7	43	43	7	39	24	34	25	8	9	39	7	17	7	7
.75	1.75	8	8	44	44	8	40	35	31	27	10	13	40	8	24	8	8
1.00	1.00	9	7	36	33	9	41	3	29	3	7	6	41	9	4	7	8
1.00	1.25	10	11	35	34	10	42	14	28	15	11	11	42	10	16	11	11
1.00	1.50	11	16	34	35	11	43	25	24	26	15	19	43	11	22	17	13
1.00	1.75	12	22	33	36	12	44	36	22	32	21	22	44	12	30	22	16
1.25	1.00	13	9	32	27	13	32	4	26	4	9	8	32	13	5	8	10
1.25	1.25	14	15	31	30	14	31	15	21	16	16	17	31	14	18	16	14
1.25	1.50	16	24	29	31	15	30	26	10	28	23	24	30	15	28	23	20
1.25	1.75	17	30	28	32	16	19	37	14	37	27	29	19	16	34	28	25
1.50	1.00	15	12	30	18	17	29	5	19	5	12	10	29	17	7	10	12
1.50	1.25	21	20	27	25	18	27	16	15	18	22	21	27	18	19	21	19
1.50	1.50	25	27	25	28	19	25	27	12	29	26	27	25	19	29	27	27
1.50	1.75	27	34	22	27	20	8	38	9	38	33	34	8	38	38	33	32
1.75	1.00	18	13	26	8	21	28	6	17	6	13	12	28	21	8	13	15
1.75	1.25	26	23	23	21	22	24	17	11	19	24	23	24	22	20	24	24
1.75	1.50	29	32	20	24	23	20	28	7	30	31	32	20	23	31	31	30
1.75	1.75	32	38	17	26	24	6	39	5	39	36	37	6	24	39	36	36
2.00	1.00	19	14	24	5	25	26	7	13	7	14	14	26	25	9	14	17
2.00	1.25	28	25	19	16	26	21	18	8	20	25	25	21	26	21	25	26
2.00	1.50	33	33	15	22	27	15	29	4	31	34	33	15	27	32	34	34
2.00	1.75	37	40	11	23	28	5	40	2	40	39	40	5	28	40	40	39
2.25	1.00	20	17	21	4	29	23	8	10	8	17	15	23	29	11	15	10
2.25	1.25	30	26	16	11	30	16	19	6	21	28	26	16	30	23	26	28
2.25	1.50	36	35	10	17	31	13	30	3	33	35	35	13	31	33	35	35
2.25	1.75	40	41	7	20	32	4	41	1	41	41	41	4	32	41	41	41
2.50	1.00	22	18	18	3	33	22	9	16	9	18	16	22	33	12	18	21
2.50	1.25	31	28	12	9	34	14	20	20	22	29	28	14	34	25	29	29
2.50	1.50	38	36	8	14	35	10	31	23	34	37	36	10	35	35	37	37
2.50	1.75	42	42	4	19	36	3	42	25	42	42	42	3	36	42	42	42
2.75	1.00	23	19	14	2	37	18	10	27	10	19	18	18	37	13	19	22
2.75	1.25	34	29	9	7	38	12	21	30	23	30	30	12	38	26	30	31
2.75	1.50	39	37	5	12	39	9	43	33	43	38	38	9	39	36	38	38
2.75	1.75	43	43	2	15	40	2	43	35	43	43	43	2	40	43	43	43
3.00	1.00	24	21	13	1	41	17	11	32	11	20	20	17	41	14	20	23
3.00	1.25	35	31	6	6	42	11	22	36	24	32	31	11	42	17	32	33
3.00	1.50	41	39	3	10	43	7	33	38	36	40	39	7	43	27	39	40

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	25	25	1	7	1	37	1	1	1	7	1	1	1	1
.50	1.25	2	2	26	26	2	8	2	38	2	2	2	8	2	2	2	2
.50	1.50	3	3	27	27	3	9	3	39	3	3	3	9	3	3	3	3
.50	1.75	4	4	28	28	4	10	4	40	34	4	4	10	4	4	4	4
.75	1.00	5	5	29	29	5	11	5	41	4	5	5	11	5	5	5	5
.75	1.25	6	6	30	30	6	12	6	42	5	6	6	12	6	6	6	6
.75	1.50	7	7	31	31	7	13	7	43	6	7	7	13	7	7	7	7
.75	1.75	8	8	32	32	8	14	8	44	35	8	8	14	8	8	8	8
1.00	1.00	9	8	33	33	9	15	9	36	7	9	9	15	9	4	9	9
1.00	1.25	10	13	34	34	10	16	10	35	8	10	10	16	10	16	11	11
1.00	1.50	11	19	35	35	11	17	11	34	9	12	12	17	11	20	13	13
1.00	1.75	12	21	36	36	12	18	12	33	36	16	15	18	12	22	15	15
1.25	1.00	13	10	37	37	13	19	13	32	10	11	11	19	13	5	8	10
1.25	1.25	14	20	38	38	14	20	14	31	11	15	14	20	14	17	17	16
1.25	1.50	15	23	39	39	15	21	15	30	12	20	18	21	15	24	24	22
1.25	1.75	16	27	40	40	16	22	16	28	37	26	23	22	16	37	29	25
1.50	1.00	17	11	41	41	17	23	17	29	13	13	13	23	17	7	10	12
1.50	1.25	18	22	42	42	18	24	18	27	14	21	19	24	18	19	21	20
1.50	1.50	19	28	43	43	19	25	19	25	15	25	26	25	19	29	27	26
1.50	1.75	20	33	44	44	20	26	20	24	38	32	29	26	20	38	34	31
1.75	1.00	21	12	44	44	21	27	21	26	16	14	16	27	21	8	13	14
1.75	1.25	22	24	44	44	22	28	22	23	17	24	24	28	22	20	23	24
1.75	1.50	23	32	44	44	23	29	23	21	18	29	30	29	23	30	32	30
1.75	1.75	24	36	44	44	24	30	24	18	39	36	34	30	24	37	37	35
2.00	1.00	25	14	44	44	25	31	25	22	19	17	17	31	25	9	14	17
2.00	1.25	26	25	44	44	26	32	26	19	20	27	27	32	26	21	25	27
2.00	1.50	27	34	44	44	27	33	27	16	21	34	33	33	27	32	33	34
2.00	1.75	28	40	44	44	28	34	28	13	40	40	37	34	28	40	40	38
2.25	1.00	29	15	44	44	29	35	29	20	22	18	20	35	29	11	15	18
2.25	1.25	30	26	44	44	30	36	30	15	23	20	28	36	30	22	26	28
2.25	1.50	31	35	44	44	31	37	31	10	24	20	36	37	31	33	35	36
2.25	1.75	32	41	44	44	32	38	32	8	41	41	40	38	32	41	41	41
2.50	1.00	33	16	44	44	33	39	33	17	25	19	21	39	33	12	16	19
2.50	1.25	34	29	44	44	34	40	34	12	26	30	31	40	34	23	28	29
2.50	1.50	35	37	44	44	35	41	35	7	27	37	38	41	35	34	36	37
2.50	1.75	36	42	44	44	36	42	36	4	42	42	42	42	36	42	42	42
2.75	1.00	37	17	44	44	37	43	37	14	28	22	22	43	37	13	18	21
2.75	1.25	38	30	44	44	38	44	38	9	29	31	32	44	38	25	30	32
2.75	1.50	39	38	44	44	39	45	39	5	30	38	39	45	39	35	38	39
2.75	1.75	40	43	44	44	40	46	40	2	43	43	43	46	40	43	43	43
3.00	1.00	41	18	44	44	41	47	41	11	31	23	25	47	41	14	19	23
3.00	1.25	42	31	44	44	42	48	42	6	32	33	35	48	42	19	23	23
3.00	1.50	43	39	44	44	43	49	43	3	33	39	41	49	43	26	31	33
3.00	1.75	44	44	44	44	44	50	44	1	44	44	44	50	44	36	39	40

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

<-----<< < WINDOW > ----->>----->

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	13	5	1	1	1	29	1	1	1	1	1	1	1	1
.50	1.25	2	2	14	6	2	2	2	30	2	2	2	2	2	3	2	2
.50	1.50	3	3	15	7	3	3	3	31	3	3	3	3	3	10	3	3
.50	1.75	4	4	16	8	4	4	4	32	4	4	4	4	4	15	4	4
.75	1.00	5	5	17	9	5	5	5	33	5	5	5	5	5	2	5	5
.75	1.25	6	6	18	10	6	6	6	34	6	6	6	6	6	14	6	6
.75	1.50	7	7	19	11	7	7	7	35	7	7	7	7	7	18	7	7
.75	1.75	8	8	20	12	8	8	8	36	8	8	8	8	8	27	8	8
1.00	1.00	9	9	21	13	9	9	9	37	9	9	9	9	9	4	9	9
1.00	1.25	10	18	22	14	10	10	10	38	10	15	10	10	10	16	11	10
1.00	1.50	11	19	23	15	11	11	11	39	11	20	12	11	11	25	11	12
1.00	1.75	12	21	24	16	12	12	12	40	12	21	14	12	12	30	12	14
1.25	1.00	13	10	25	17	13	13	13	41	13	10	11	13	13	5	13	11
1.25	1.25	14	20	26	18	14	14	14	42	14	19	15	14	14	17	16	15
1.25	1.50	15	29	27	19	15	15	15	43	15	22	19	15	15	28	24	21
1.25	1.75	16	31	28	20	16	16	16	44	16	24	24	16	16	35	31	25
1.50	1.00	17	11	29	21	17	17	17	28	17	11	13	17	17	6	10	13
1.50	1.25	18	22	30	22	18	18	18	27	18	23	20	18	18	19	21	20
1.50	1.50	19	30	31	23	19	19	19	26	19	27	26	19	19	29	29	27
1.50	1.75	20	34	32	24	20	20	20	25	20	31	29	20	20	38	34	32
1.75	1.00	21	12	33	25	21	21	21	24	21	12	16	21	21	7	13	16
1.75	1.25	22	23	34	26	22	22	22	23	22	25	25	22	22	20	22	24
1.75	1.50	23	32	35	27	23	23	23	22	23	32	30	23	23	31	32	31
1.75	1.75	24	39	36	28	24	24	24	20	24	35	35	24	24	39	37	35
2.00	1.00	25	13	37	29	25	25	25	21	25	13	17	25	25	8	14	17
2.00	1.25	26	24	38	30	26	26	26	19	26	26	27	26	26	21	25	26
2.00	1.50	27	33	39	31	27	27	27	17	27	34	33	27	27	32	33	34
2.00	1.75	28	40	40	32	28	28	28	14	28	38	38	28	28	40	40	38
2.25	1.00	29	14	41	33	29	29	29	18	29	14	18	29	29	9	15	18
2.25	1.25	30	25	42	34	30	30	30	15	30	28	28	30	30	22	26	28
2.25	1.50	31	35	43	35	31	31	31	12	31	36	36	31	31	33	35	36
2.25	1.75	32	41	44	36	32	32	32	9	32	41	40	32	32	41	41	41
2.50	1.00	33	15	44	37	33	33	33	16	33	16	21	33	33	11	17	19
2.50	1.25	34	26	45	38	34	34	34	11	34	29	31	34	34	23	27	29
2.50	1.50	35	36	46	39	35	35	35	7	35	37	37	35	35	34	36	37
2.50	1.75	36	42	47	40	36	36	36	5	36	42	42	36	36	42	42	42
2.75	1.00	37	16	48	41	37	37	37	13	37	17	22	37	37	12	18	22
2.75	1.25	38	27	49	42	38	38	38	8	38	30	32	38	38	24	20	30
2.75	1.50	39	37	50	43	39	39	39	4	39	39	39	39	39	36	38	39
2.75	1.75	40	43	51	44	40	40	40	2	40	43	43	40	40	43	43	43
3.00	1.00	41	17	52	45	41	41	41	10	41	18	23	41	41	13	20	23
3.00	1.25	42	28	53	46	42	42	42	6	42	33	34	42	42	26	20	33
3.00	1.50	43	38	54	47	43	43	43	3	43	40	41	43	43	37	30	40
3.00	1.75	44	44	55	48	44	44	44	1	44	44	44	44	44	44	39	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

← W I N D O W →		←←----->>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	-	-	1	-	1	-	1	1	1	-	1	1	1	1
.50	1.25	2	2	-	-	2	-	-	-	12	2	2	-	2	2	2	2
.50	1.50	3	3	-	-	3	-	-	-	-	3	3	-	3	3	3	3
.50	1.75	4	4	-	-	4	-	-	-	-	4	4	-	4	4	4	4
.75	1.00	5	-	-	-	5	-	2	-	2	-	-	-	5	-	-	-
.75	1.25	6	-	-	-	6	-	-	-	-	-	-	-	6	-	-	-
.75	1.50	7	-	-	-	7	-	-	-	-	-	-	-	7	-	-	-
.75	1.75	8	-	-	-	8	-	-	-	-	-	-	-	8	-	-	-
1.00	1.00	9	-	-	-	9	-	3	-	-	-	-	-	9	-	-	-
1.00	1.25	10	-	-	-	10	-	-	-	3	-	-	-	10	-	-	-
1.00	1.50	11	-	-	-	11	-	-	-	-	-	-	-	11	-	-	-
1.00	1.75	12	-	-	-	12	-	-	-	-	-	-	-	12	-	-	-
1.25	1.00	13	-	-	-	13	-	4	-	4	-	-	-	13	-	-	-
1.25	1.25	14	-	-	-	14	-	-	-	-	-	-	-	14	-	-	-
1.25	1.50	16	-	-	-	15	-	-	-	-	-	-	-	15	-	-	-
1.25	1.75	17	-	-	-	16	-	-	-	-	-	-	-	16	-	-	-
1.50	1.00	15	-	-	-	17	-	5	-	5	-	-	-	17	-	-	-
1.50	1.25	-	-	-	-	18	-	-	-	-	-	-	-	18	-	-	-
1.50	1.50	-	-	-	-	19	-	-	-	-	-	-	-	19	-	-	-
1.50	1.75	18	-	-	-	20	-	-	-	-	-	-	-	20	-	-	-
1.75	1.00	-	-	-	-	21	-	6	-	-	-	-	-	21	-	-	-
1.75	1.25	-	-	-	-	22	-	-	-	6	-	-	-	22	-	-	-
1.75	1.50	-	-	-	-	23	-	-	-	-	-	-	-	23	-	-	-
1.75	1.75	-	-	-	-	24	-	-	-	-	-	-	-	24	-	-	-
1.75	1.00	19	-	-	-	25	-	7	-	7	-	-	-	25	-	-	-
2.00	1.00	-	-	-	-	26	-	-	-	-	-	-	-	26	-	-	-
2.00	1.25	-	-	-	-	27	-	-	-	-	-	-	-	27	-	-	-
2.00	1.50	-	-	-	-	28	-	-	2	-	-	-	-	28	-	-	-
2.00	1.75	-	-	-	-	29	-	8	-	8	-	-	-	29	-	-	-
2.25	1.00	-	-	-	-	30	-	-	-	-	-	-	-	30	-	-	-
2.25	1.25	-	-	-	-	31	-	-	3	-	-	-	-	31	-	-	-
2.25	1.50	-	-	-	-	32	-	4	-	1	-	-	-	32	-	-	-
2.25	1.75	-	-	-	-	33	-	-	-	-	-	-	-	33	-	-	-
2.50	1.00	-	-	-	-	34	-	9	-	9	-	-	-	34	-	-	-
2.50	1.25	-	-	-	-	35	-	-	-	-	-	-	-	35	-	-	-
2.50	1.50	-	-	-	-	36	-	3	-	-	-	-	-	36	-	-	-
2.50	1.75	-	-	-	-	37	-	10	-	10	-	-	-	37	-	-	-
2.75	1.00	-	-	-	-	38	-	-	-	-	-	-	-	38	-	-	-
2.75	1.25	-	-	-	-	39	-	-	-	-	-	-	-	39	-	-	-
2.75	1.50	-	-	-	-	40	-	-	-	-	-	-	-	40	-	-	-
2.75	1.75	-	-	-	-	41	-	11	-	11	-	-	-	41	-	-	-
3.00	1.00	-	-	-	-	42	-	-	-	-	-	-	-	42	-	-	-
3.00	1.25	-	-	-	-	43	-	-	-	-	-	-	-	43	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

Width.M	Height.M	< W I N D O W >																RANK	ORDER
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5		
.50	1.00	1	1	-	-	-	-	-	-	-	-	-	-	-	-	-	1	1	
.50	1.25	2	2	-	-	-	-	-	-	-	-	-	-	-	-	-	2	2	
.50	1.50	3	3	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	
.50	1.75	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4	4	
.75	1.00	5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	
.75	1.25	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-	
.75	1.50	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	7	-	
.75	1.75	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	
1.00	1.00	9	9	-	-	-	-	-	-	-	-	-	-	-	-	-	9	-	
1.00	1.25	10	10	-	-	-	-	-	-	-	-	-	-	-	-	-	10	-	
1.00	1.50	11	11	-	-	-	-	-	-	-	-	-	-	-	-	-	11	-	
1.00	1.75	12	12	-	-	-	-	-	-	-	-	-	-	-	-	-	12	-	
1.25	1.00	13	13	-	-	-	-	-	-	-	-	-	-	-	-	-	13	-	
1.25	1.25	14	14	-	-	-	-	-	-	-	-	-	-	-	-	-	14	-	
1.25	1.50	15	15	-	-	-	-	-	-	-	-	-	-	-	-	-	15	-	
1.25	1.75	16	16	-	-	-	-	-	-	-	-	-	-	-	-	-	16	-	
1.50	1.00	17	17	-	-	-	-	-	-	-	-	-	-	-	-	-	17	-	
1.50	1.25	18	18	-	-	-	-	-	-	-	-	-	-	-	-	-	18	-	
1.50	1.50	19	19	-	-	-	-	-	-	-	-	-	-	-	-	-	19	-	
1.50	1.75	20	20	-	-	-	-	-	-	-	-	-	-	-	-	-	20	-	
1.75	1.00	21	21	-	-	-	-	-	-	-	-	-	-	-	-	-	21	-	
1.75	1.25	22	22	-	-	-	-	-	-	-	-	-	-	-	-	-	22	-	
1.75	1.50	23	23	-	-	-	-	-	-	-	-	-	-	-	-	-	23	-	
1.75	1.75	24	24	-	-	-	-	-	-	-	-	-	-	-	-	-	24	-	
2.00	1.00	25	25	-	-	-	-	-	-	-	-	-	-	-	-	-	25	-	
2.00	1.25	26	26	-	-	-	-	-	-	-	-	-	-	-	-	-	26	-	
2.00	1.50	27	27	-	-	-	-	-	-	-	-	-	-	-	-	-	27	-	
2.00	1.75	28	28	-	-	-	-	-	-	-	-	-	-	-	-	-	28	-	
2.25	1.00	29	29	-	-	-	-	-	-	-	-	-	-	-	-	-	29	-	
2.25	1.25	30	30	-	-	-	-	-	-	-	-	-	-	-	-	-	30	-	
2.25	1.50	31	31	-	-	-	-	-	-	-	-	-	-	-	-	-	31	-	
2.25	1.75	32	32	-	-	-	-	-	-	-	-	-	-	-	-	-	32	-	
2.50	1.00	33	33	-	-	-	-	-	-	-	-	-	-	-	-	-	33	-	
2.50	1.25	34	34	-	-	-	-	-	-	-	-	-	-	-	-	-	34	-	
2.50	1.50	35	35	-	-	-	-	-	-	-	-	-	-	-	-	-	35	-	
2.50	1.75	36	36	-	-	-	-	-	-	-	-	-	-	-	-	-	36	-	
2.75	1.00	37	37	-	-	-	-	-	-	-	-	-	-	-	-	-	37	-	
2.75	1.25	38	38	-	-	-	-	-	-	-	-	-	-	-	-	-	38	-	
2.75	1.50	39	39	-	-	-	-	-	-	-	-	-	-	-	-	-	39	-	
2.75	1.75	40	40	-	-	-	-	-	-	-	-	-	-	-	-	-	40	-	
3.00	1.00	41	41	-	-	-	-	-	-	-	-	-	-	-	-	-	41	-	
3.00	1.25	42	42	-	-	-	-	-	-	-	-	-	-	-	-	-	42	-	
3.00	1.50	43	43	-	-	-	-	-	-	-	-	-	-	-	-	-	43	-	
3.00	1.75	44	44	-	-	-	-	-	-	-	-	-	-	-	-	-	44	-	

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

Width.M	Height.M	W I N D O W >																O R I E N T A T I O N S				W E S T	R A N K	O R D E R
		<<-----<<				-----<<				>>----->>				>>----->>										
		22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	292.5	315.0	337.5									
.50	1.00	1	25	25	37	11	11	1	1	1	1	1	1	1	1	37	1	1						
.50	1.25	2	26	26	38	27	37	3	2	2	2	2	3	2	2	38	2	2						
.50	1.50	3	27	27	39	42	43	4	24	4	3	3	5	3	3	39	3	3						
.50	1.75	4	28	28	40	44	44	7	34	7	4	5	11	4	4	40	4	4						
.75	1.00	5	29	29	41	10	10	2	3	3	5	4	2	5	5	41	5	5						
.75	1.25	6	30	30	42	21	21	6	4	6	6	7	0	6	6	42	6	6						
.75	1.50	7	31	31	43	38	38	10	25	10	8	9	17	8	7	43	8	7						
.75	1.75	8	32	32	44	43	43	13	35	13	10	13	24	9	8	44	9	8						
1.00	1.00	9	33	33	9	9	9	5	5	5	7	4	4	7	9	9	7	9						
1.00	1.25	10	34	34	24	20	20	11	6	11	11	6	16	11	11	34	11	11						
1.00	1.50	11	35	35	35	31	31	17	26	17	14	19	22	13	13	35	13	13						
1.00	1.75	12	36	36	36	41	41	23	36	23	19	30	30	16	15	36	16	15						
1.25	1.00	13	37	37	8	8	8	8	7	8	9	8	6	10	10	8	10	10						
1.25	1.25	14	38	38	20	19	19	15	9	15	16	16	18	15	16	28	15	16						
1.25	1.50	15	39	39	32	30	29	22	27	22	23	24	28	21	22	32	21	22						
1.25	1.75	16	40	40	33	40	40	27	37	27	26	29	35	25	25	33	25	25						
1.50	1.00	17	41	41	7	7	7	9	9	9	12	10	7	12	12	7	12	12						
1.50	1.25	18	42	42	19	18	18	21	10	21	15	21	17	19	20	19	19	20						
1.50	1.50	20	43	43	29	20	20	26	20	26	23	27	29	26	26	29	26	26						
1.50	1.75	21	44	44	31	39	38	33	30	33	32	34	38	31	31	31	31	31						
1.75	1.00	19	15	23	6	6	6	12	11	12	13	12	9	14	14	6	14	14						
1.75	1.25	23	22	21	15	17	17	24	12	24	24	23	20	24	24	15	24	24						
1.75	1.50	24	23	22	26	27	27	30	12	30	30	32	31	29	30	26	30	30						
1.75	1.75	27	24	24	30	37	36	36	29	36	36	37	39	35	35	30	35	35						
2.00	1.00	22	6	18	5	5	5	14	13	14	15	14	10	17	17	5	17	17						
2.00	1.25	26	18	9	14	16	16	25	14	25	25	25	21	27	27	14	27	27						
2.00	1.50	30	20	17	23	26	26	34	14	34	34	33	32	33	34	14	33	34						
2.00	1.75	33	21	20	27	36	35	39	30	39	38	40	40	40	40	27	40	40						
2.25	1.00	25	4	12	4	4	4	16	15	16	17	15	12	18	18	4	18	18						
2.25	1.25	31	11	4	13	15	15	28	16	28	28	26	23	28	28	13	28	28						
2.25	1.50	35	17	13	20	25	25	35	31	35	35	35	33	36	36	20	36	36						
2.25	1.75	37	19	17	25	35	34	41	41	41	41	41	41	41	41	25	41	41						
2.50	1.00	28	3	8	3	3	3	18	17	18	18	17	13	20	19	3	20	19						
2.50	1.25	34	8	3	12	14	14	27	10	27	29	28	25	30	29	12	30	29						
2.50	1.50	38	13	11	18	24	24	37	32	37	37	36	34	37	37	18	37	37						
2.50	1.75	41	16	16	24	34	33	42	42	42	42	42	42	42	42	24	42	42						
2.75	1.00	29	2	6	2	2	2	19	19	19	20	18	14	22	21	2	22	21						
2.75	1.25	36	7	2	11	13	13	31	20	31	31	30	26	32	32	7	32	32						
2.75	1.50	40	10	10	17	23	23	38	23	38	39	38	36	39	39	11	39	39						
2.75	1.75	43	14	15	22	33	32	43	43	43	43	43	43	43	43	22	43	43						
3.00	1.00	32	1	5	1	1	1	20	21	20	22	20	15	27	23	1	27	23						
3.00	1.25	39	5	1	10	12	12	32	22	32	33	31	27	34	33	5	34	33						
3.00	1.50	42	9	7	16	22	22	40	33	40	40	39	37	40	40	16	40	40						
3.00	1.75	44	12	14	21	33	30	44	44	44	44	44	44	44	44	21	44	44						

W A L L T H I C K N E S S = 0.24 M

T A B L E

S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

Window		Orientation																Rank	
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5		
.50	1.00	1	1	13	5	29	22	30	10	1	17	1	1	29	1	1	1		
.50	1.25	2	2	14	6	30	21	21	16	2	14	2	2	30	3	2	2		
.50	1.50	3	3	15	7	31	33	41	13	3	13	3	3	31	6	3	3		
.50	1.75	4	4	16	8	32	44	44	12	4	11	4	4	32	14	4	4		
.75	1.00	5	5	17	9	33	20	20	11	5	12	5	5	33	2	5	5		
.75	1.25	6	6	18	10	34	19	19	2	6	2	6	6	34	11	6	6		
.75	1.50	7	7	19	11	35	32	32	15	7	16	7	7	35	17	7	7		
.75	1.75	8	8	20	12	36	43	43	20	8	19	8	8	36	22	8	8		
1.00	1.00	9	9	21	13	37	18	18	7	9	6	9	9	37	4	9	9		
1.00	1.25	10	10	22	14	38	17	17	14	10	15	10	10	38	16	10	10		
1.00	1.50	11	11	23	15	39	31	31	21	11	21	11	11	39	23	12	12		
1.00	1.75	12	12	24	16	40	42	42	26	12	25	12	12	40	30	16	16		
1.25	1.00	13	10	25	17	41	16	16	4	13	4	13	13	41	5	11	11		
1.25	1.25	14	20	26	18	42	14	14	17	14	18	14	14	42	18	14	15		
1.25	1.50	15	29	27	19	43	30	29	23	15	23	15	15	43	28	20	21		
1.25	1.75	16	31	28	20	44	41	40	30	16	30	16	16	44	34	25	25		
1.50	1.00	17	11	29	21	26	15	15	1	17	1	17	17	26	7	13	13		
1.50	1.25	18	22	30	22	18	12	12	19	18	20	18	18	18	19	18	20		
1.50	1.50	19	30	31	23	19	29	28	28	19	28	19	19	19	29	26	27		
1.50	1.75	20	34	32	24	20	40	39	34	20	34	20	20	20	38	31	32		
1.75	1.00	21	12	33	25	20	13	13	3	21	3	21	21	20	8	15	16		
1.75	1.25	22	23	34	26	13	10	9	22	22	22	22	22	13	20	23	24		
1.75	1.50	23	32	35	27	16	28	27	32	23	32	23	23	16	31	29	31		
1.75	1.75	25	39	36	28	27	39	38	37	24	37	24	24	27	39	35	35		
2.00	1.00	24	13	37	29	17	11	11	5	25	5	14	14	17	9	17	17		
2.00	1.25	27	24	38	30	6	7	7	24	26	24	25	25	6	21	27	26		
2.00	1.50	29	33	39	31	14	27	26	33	27	33	27	27	14	32	34	34		
2.00	1.75	33	40	40	32	25	38	37	39	28	39	28	28	25	40	38	38		
2.25	1.00	26	14	41	33	15	9	10	6	29	7	17	16	15	10	19	18		
2.25	1.25	31	25	42	34	4	5	5	25	30	26	28	26	4	24	28	28		
2.25	1.50	35	35	43	35	11	26	25	35	31	35	28	35	11	33	36	36		
2.25	1.75	37	41	44	36	24	37	36	41	32	41	32	41	24	41	41	41		
2.50	1.00	28	15	6	37	12	8	8	8	33	8	18	18	12	12	21	19		
2.50	1.25	34	26	5	38	3	3	3	27	34	27	29	27	3	25	30	29		
2.50	1.50	38	36	11	39	10	25	24	36	35	36	29	36	10	35	37	37		
2.50	1.75	40	42	12	40	23	36	35	42	36	42	42	42	23	42	42	42		
2.75	1.00	30	16	4	41	9	6	6	9	37	9	19	19	9	13	22	22		
2.75	1.25	36	27	3	42	2	2	2	29	38	29	30	29	2	26	32	30		
2.75	1.50	41	37	8	4	8	24	23	38	39	38	38	38	8	36	39	39		
2.75	1.75	43	43	10	3	22	35	34	43	40	43	43	43	22	43	43	43		
3.00	1.00	32	17	2	43	5	4	4	10	41	10	21	21	5	15	24	23		
3.00	1.25	39	28	1	44	1	1	1	31	42	31	31	31	1	27	33	33		
3.00	1.50	42	38	7	2	7	23	22	40	43	40	40	39	7	37	40	40		
3.00	1.75	44	44	9	1	21	34	33	44	44	44	44	44	21	44	44	44		

TABLE SHOWING EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	-	-	-	-	-	1	1	1	1	1	-	1	1	1
.50	1.25	2	2	-	-	-	-	-	-	-	-	2	2	-	-	2	2
.50	1.50	3	3	-	-	-	-	-	-	-	-	3	3	-	-	3	3
.50	1.75	4	4	-	-	-	-	-	-	-	-	-	-	-	4	4	4
.75	1.00	-	-	-	-	-	-	-	-	2	-	-	-	-	2	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	9	-	-	3	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	8	-	-	4	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	7	-	-	5	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	11	-	-	-	-	-	-	-	11	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	6	-	-	6	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	5	-	-	-	7	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	14	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	4	-	-	-	8	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	3	-	-	-	9	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	2	-	-	-	10	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	1	-	-	-	11	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

W I N D O W >		<<-----												>>-----		
Width.M	Height.M	N O R T H			E A S T			W I N D O W			S O U T H			W E S T		
		22.5	45.0	67.5	112.5	135.0	157.5	202.5	270.0	247.5	1292.5	315.0	337.5			
.50	1.00	1							1	1	1	1	1	1	1	
.50	1.25	2							2	2	3	2	2	2	2	
.50	1.50	3							3	3	4	3	3	3	3	
.50	1.75	4							4	4	5	4	4	4	4	
.75	1.00	5									2					
.75	1.25	6														
.75	1.50	7														
.75	1.75	8														
1.00	1.00	9														
1.00	1.25	10														
1.00	1.50	11														
1.00	1.75	12														
1.25	1.00	13														
1.25	1.25	14														
1.25	1.50	15														
1.25	1.75	16														
1.50	1.00	17														
1.50	1.25	18														
1.50	1.50	19														
1.50	1.75	20														
1.75	1.00	21														
1.75	1.25	22														
1.75	1.50	23														
1.75	1.75															
2.00	1.00	13														
2.00	1.25	24														
2.00	1.50															
2.00	1.75															
2.25	1.00	14														
2.25	1.25	25														
2.25	1.50															
2.25	1.75															
2.50	1.00	15														
2.50	1.25	26														
2.50	1.50															
2.50	1.75															
2.75	1.00	16														
2.75	1.25	27														
2.75	1.50															
2.75	1.75															
3.00	1.00	17														
3.00	1.25	28														
3.00	1.50															
3.00	1.75															

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	25	11	35	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	41	28	42	2	12	2	2	2	12	2	2	2
.50	1.50	3	3	3	6	43	41	43	3	23	4	3	3	16	3	3	3
.50	1.75	4	4	4	15	44	44	44	4	25	7	4	4	25	4	4	4
.75	1.00	5	5	4	2	11	10	16	5	2	3	5	5	2	5	5	5
.75	1.25	6	6	7	10	29	21	34	6	13	6	6	6	13	6	6	6
.75	1.50	7	7	10	17	39	32	40	8	24	10	8	7	24	7	7	7
.75	1.75	8	8	15	24	42	43	41	10	30	15	11	9	32	20	8	8
1.00	1.00	9	9	6	4	9	9	9	7	3	5	7	8	3	4	9	9
1.00	1.25	10	10	12	16	21	20	24	11	14	12	10	10	14	16	10	10
1.00	1.50	11	11	20	22	36	31	37	15	26	20	16	12	26	22	12	12
1.00	1.75	12	13	23	30	40	42	39	21	36	24	22	14	36	29	15	14
1.25	1.00	13	12	8	5	8	8	8	9	4	8	9	11	4	6	11	11
1.25	1.25	14	14	19	18	18	19	18	17	15	10	15	15	15	18	14	15
1.25	1.50	15	16	24	28	31	30	31	23	27	25	23	17	27	27	18	17
1.25	1.75	16	18	31	34	38	40	38	28	37	30	28	20	33	33	21	21
1.50	1.00	17	15	9	7	7	7	7	12	5	9	12	13	5	7	13	13
1.50	1.25	18	17	21	19	17	18	17	20	16	21	21	10	17	19	18	18
1.50	1.50	20	21	28	29	27	29	27	27	28	28	26	24	28	30	25	24
1.50	1.75	21	24	34	38	37	39	36	32	38	35	33	20	37	37	28	28
1.75	1.00	19	17	11	8	6	6	6	13	6	11	13	16	6	10	16	16
1.75	1.25	23	22	22	20	16	17	15	24	17	22	24	22	18	21	22	22
1.75	1.50	25	27	32	31	26	27	25	30	29	32	31	29	31	31	29	29
1.75	1.75	27	31	37	37	35	38	33	36	39	37	36	33	39	34	34	34
2.00	1.00	22	20	13	9	5	5	5	14	7	13	14	19	7	17	19	19
2.00	1.25	26	26	25	21	15	16	14	25	18	23	25	27	19	23	27	27
2.00	1.50	30	32	33	32	24	26	23	33	31	33	34	32	30	32	32	32
2.00	1.75	33	36	40	40	34	37	32	38	40	39	39	37	40	40	37	37
2.25	1.00	24	23	14	11	4	4	4	16	0	14	17	21	8	20	20	20
2.25	1.25	31	30	26	23	14	15	13	26	19	26	27	30	20	24	30	30
2.25	1.50	35	35	35	33	23	25	22	35	32	34	35	35	31	34	36	36
2.25	1.75	37	39	41	41	33	36	30	40	41	41	41	39	41	41	40	40
2.50	1.00	28	25	16	12	3	3	3	18	9	16	18	23	9	13	23	23
2.50	1.25	34	33	27	25	13	14	12	29	20	27	29	31	21	25	31	31
2.50	1.50	38	38	36	35	22	24	21	37	33	36	37	38	33	35	38	38
2.50	1.75	41	41	42	42	32	35	29	42	42	42	42	42	42	42	42	42
2.75	1.00	29	28	17	13	2	2	2	19	10	17	19	25	10	14	24	25
2.75	1.25	36	34	29	26	12	13	11	31	21	29	30	34	22	26	33	33
2.75	1.50	40	40	38	36	20	23	20	39	34	38	38	40	34	36	39	39
2.75	1.75	43	43	43	43	30	34	20	43	43	43	43	43	43	43	43	43
3.00	1.00	32	29	18	14	1	1	1	22	11	19	20	26	11	15	26	26
3.00	1.25	39	37	30	27	10	12	10	34	22	31	32	36	23	15	28	28
3.00	1.50	42	42	39	37	19	22	19	41	35	40	40	41	35	38	35	35
3.00	1.75	42	42	42	42	19	22	19	41	35	40	40	41	35	38	35	35

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

C W I N D O W >		<<-----<<												>>----->>											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5								
.50	1.00	1	1	1	1	16	11	23	1	33	1	1	1	1	1	1	1								
.50	1.25	2	2	2	3	38	22	41	3	32	2	2	2	12	2	2	2								
.50	1.50	3	3	6	6	43	36	43	5	31	4	3	3	23	5	3	3								
.50	1.75	4	4	15	15	44	44	44	9	34	8	4	4	26	9	4	4								
.75	1.00	5	5	2	2	10	10	10	2	20	3	5	5	2	3	5	5								
.75	1.25	6	6	10	10	26	21	34	7	19	7	6	6	13	8	6	6								
.75	1.50	7	7	18	18	40	32	39	10	30	11	8	7	24	7	7	7								
.75	1.75	8	8	27	27	42	43	42	17	35	19	10	8	35	21	9	8								
1.00	1.00	9	9	4	4	9	9	9	4	18	5	7	9	3	4	8	9								
1.00	1.25	10	10	16	16	20	20	25	12	16	13	11	10	14	16	10	10								
1.00	1.50	11	11	24	24	34	31	37	19	29	21	14	12	25	22	12	12								
1.00	1.75	12	12	31	31	41	42	40	24	36	26	19	14	36	30	14	13								
1.25	1.00	13	13	5	5	8	8	8	6	17	6	9	11	4	6	11	11								
1.25	1.25	14	14	17	17	19	19	19	15	14	10	16	15	15	10	15	15								
1.25	1.50	15	16	28	28	29	30	33	22	20	23	23	17	27	28	18	17								
1.25	1.75	16	17	37	37	39	41	38	20	37	31	26	20	37	34	22	20								
1.50	1.00	17	15	7	7	7	7	7	8	15	9	12	13	5	7	13	14								
1.50	1.25	18	19	17	17	18	18	17	21	12	20	21	19	16	19	19	19								
1.50	1.50	19	21	29	29	28	29	29	26	27	27	27	24	28	29	25	24								
1.50	1.75	20	24	38	38	37	40	36	33	38	34	32	28	38	38	28	28								
1.75	1.00	21	18	8	8	6	6	6	11	13	10	13	16	6	10	16	16								
1.75	1.25	22	22	20	20	17	17	16	23	10	22	24	22	17	20	23	23								
1.75	1.50	24	26	30	30	27	20	26	31	26	32	30	29	29	31	29	29								
1.75	1.75	25	29	39	39	36	37	35	37	37	38	36	33	39	39	34	33								
2.00	1.00	23	20	9	9	5	5	5	13	11	12	15	18	7	11	17	18								
2.00	1.25	27	27	21	21	15	16	15	25	7	24	25	27	18	23	27	27								
2.00	1.50	28	32	33	32	25	27	24	34	25	33	34	32	30	32	32	32								
2.00	1.75	31	34	40	40	35	38	32	40	40	40	38	37	40	40	37	37								
2.25	1.00	26	23	11	11	4	4	4	14	9	14	17	21	8	20	20	21								
2.25	1.25	30	31	22	22	14	15	14	27	5	25	28	30	19	24	30	30								
2.25	1.50	33	35	34	33	24	26	22	35	24	35	35	36	31	33	36	36								
2.25	1.75	36	39	41	41	33	37	31	41	41	41	41	39	41	41	40	39								
2.50	1.00	29	25	12	12	3	3	3	16	8	15	18	23	9	13	21	22								
2.50	1.25	34	33	27	27	13	14	13	29	3	20	27	31	20	25	31	31								
2.50	1.50	38	38	36	34	23	25	21	36	23	36	37	38	32	35	38	38								
2.50	1.75	40	41	42	42	32	35	30	42	42	42	42	42	42	42	42	42								
2.75	1.00	32	28	13	13	2	2	2	18	6	16	20	25	10	14	24	25								
2.75	1.25	37	36	25	25	12	13	12	30	2	29	31	34	21	26	33	34								
2.75	1.50	41	40	35	35	22	24	20	38	22	37	39	40	33	36	40	40								
2.75	1.75	42	43	43	43	31	34	28	43	43	43	43	43	43	43	43	43								
3.00	1.00	35	30	14	14	1	1	1	20	4	17	22	26	11	15	26	26								
3.00	1.25	39	37	29	29	11	12	11	32	1	30	33	35	22	27	35	35								
3.00	1.50	43	42	38	36	21	23	19	39	21	39	40	41	34	37	41	41								
3.00	1.75	44	44	44	44	30	33	27	44	44	44	44	44	44	44	44	44								

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

		<-----<<																>>----->															
		O R I E N T A T I O N S								I N R A N K O R D E R																							
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5																
.50	1.00	1	1	1	1	19	22	15	22	44	17	1	1	1	1	1	1																
.50	1.25	2	2	2	3	39	17	29	17	43	14	2	2	12	3	2	2																
.50	1.50	3	3	3	10	43	16	43	16	42	13	3	3	23	5	3	3																
.50	1.75	4	4	4	15	44	15	44	15	40	11	4	4	34	10	4	4																
.75	1.00	5	5	5	2	10	20	10	11	41	12	5	5	2	2	5	5																
.75	1.25	6	6	6	14	27	19	21	13	37	2	6	6	13	9	6	6																
.75	1.50	7	7	7	18	37	32	39	13	37	16	8	7	24	17	7	7																
.75	1.75	8	8	8	27	42	43	42	21	34	19	10	8	35	21	8	8																
1.00	1.00	9	9	6	4	9	18	9	8	38	8	9	9	4	4	9	9																
1.00	1.25	10	10	13	16	20	17	20	12	35	15	11	10	14	16	10	10																
1.00	1.50	11	11	22	25	30	31	35	19	32	21	15	12	25	22	12	11																
1.00	1.75	12	12	29	30	41	42	41	27	27	27	20	13	36	29	14	13																
1.25	1.00	13	13	8	5	8	16	8	5	36	5	9	11	4	6	11	12																
1.25	1.25	14	14	18	17	18	14	19	14	31	18	16	14	15	10	15	14																
1.25	1.50	15	15	28	28	29	30	30	24	27	24	23	16	26	17	17	16																
1.25	1.75	16	17	32	35	40	41	40	31	23	31	26	16	37	28	21	19																
1.50	1.00	17	16	9	6	7	15	7	1	33	1	12	15	7	7	13	15																
1.50	1.25	18	18	20	19	17	12	18	18	28	20	22	18	16	19	18	18																
1.50	1.50	19	20	30	29	28	29	28	29	22	30	27	23	27	30	24	23																
1.50	1.75	20	23	36	38	38	40	38	35	17	36	33	27	38	38	28	28																
1.75	1.00	21	19	10	7	6	13	6	2	30	3	13	17	6	8	16	17																
1.75	1.25	22	22	21	20	16	10	17	20	24	22	24	21	17	20	22	22																
1.75	1.50	23	25	31	31	26	28	27	32	18	32	31	29	28	31	30	29																
1.75	1.75	24	29	39	39	36	39	37	37	12	39	36	33	39	34	34	33																
2.00	1.00	25	21	11	8	5	11	5	4	26	4	14	19	7	11	19	20																
2.00	1.25	26	26	23	21	15	7	16	23	20	23	25	25	10	23	27	27																
2.00	1.50	28	32	33	32	25	27	26	33	14	33	34	32	29	32	32	32																
2.00	1.75	29	34	40	40	35	38	36	40	9	40	39	37	40	40	37	37																
2.25	1.00	27	24	14	9	4	9	4	6	25	6	17	22	8	12	20	21																
2.25	1.25	31	24	24	22	14	5	14	25	16	25	28	30	19	24	29	30																
2.25	1.50	33	35	34	33	24	26	25	34	10	34	35	36	30	34	36	36																
2.25	1.75	36	39	41	41	34	37	34	41	6	41	41	39	41	41	40	40																
2.50	1.00	30	27	15	11	3	8	3	7	21	7	18	24	9	13	23	24																
2.50	1.25	34	33	25	23	13	3	13	26	13	26	29	31	20	25	31	31																
2.50	1.50	37	38	35	34	23	25	24	36	7	35	37	38	31	38	38	38																
2.50	1.75	39	41	42	42	33	36	33	42	4	42	42	42	42	42	42	42																
2.75	1.00	32	28	16	12	2	6	2	9	19	9	19	26	10	14	25	25																
2.75	1.25	38	36	26	24	12	2	12	28	11	28	30	34	21	26	33	34																
2.75	1.50	41	40	37	36	22	24	23	38	5	37	38	40	32	36	39	39																
2.75	1.75	42	43	43	43	32	35	32	43	2	43	43	43	43	43	43	43																
3.00	1.00	35	31	17	13	1	4	1	10	15	10	21	28	11	15	26	26																
3.00	1.25	40	37	27	26	11	1	11	30	8	29	32	35	22	27	35	35																
3.00	1.50	43	42	38	37	21	23	22	39	3	38	40	41	33	37	41	41																
3.00	1.75	44	44	44	44	31	34	31	44	1	44	44	44	44	44	44	44																

WALL THICKNESS = 0.36 M

< W I N D O W >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	-	-	-	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	-	-	-	-	-	-	-	-	2	2	-	-	2	2
.50	1.50	3	-	-	-	-	-	-	-	-	-	3	3	-	-	3	3
.50	1.75	4	-	-	-	-	-	-	-	-	-	-	4	-	-	4	4
.75	1.00	-	-	-	2	-	10	-	-	2	-	-	-	2	-	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	9	-	-	-	3	-	-	-	3	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	8	8	-	-	4	-	-	-	4	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	7	7	-	-	5	-	-	-	5	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	6	-	-	6	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	5	5	-	-	7	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	4	4	-	-	8	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	3	3	-	-	9	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	2	2	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	1	1	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

Width.M	Height.M	O R I E N T A T I O N S														
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0
.50	1.00	1	1	1	1	-	-	1	-	1	-	-	1	1	1	1
.50	1.25	2	2	3	3	-	-	-	-	-	-	-	2	2	2	2
.50	1.50	3	3	-	-	-	-	-	-	-	-	-	3	3	3	3
.50	1.75	4	4	-	-	-	-	-	-	-	-	-	4	4	4	4
.75	1.00	5	4	2	-	-	10	-	-	-	-	-	2	3	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	9	-	-	-	-	-	3	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	8	-	-	-	-	-	-	-	4	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	7	-	-	-	-	-	-	-	5	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	6	-	-	-	-	-	-	-	6	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	5	-	-	-	-	-	-	-	7	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	4	-	-	-	-	-	-	-	8	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	3	-	-	-	-	-	-	-	9	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	2	-	-	-	-	-	-	-	10	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	1	-	-	-	-	-	-	-	11	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

Width.M		Window												WEST		315.0		337.5	
Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	292.5	315.0	337.5	Rank	Order		
.50	1	1	1	1	-	-	-	-	-	-	1	1	1	1	1	1			
.50	2	2	2	3	-	-	-	-	-	-	2	2	3	2	2	2			
.50	3	3	3	-	-	-	-	-	-	-	3	3	-	3	3	3			
.50	4	4	4	-	-	-	-	-	-	-	4	4	-	4	4	4			
.75	5	5	5	2	-	-	-	-	-	-	-	-	2	-	-	-			
.75	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
.75	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
.75	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.00	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.00	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.00	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.25	-	-	-	-	8	-	8	-	-	-	-	-	-	-	-	-			
1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.50	-	-	-	-	7	-	7	1	-	1	-	-	-	-	-	-			
1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.75	-	-	-	-	6	-	6	-	-	-	-	-	-	-	-	-			
1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.00	-	-	-	-	5	-	5	-	-	-	-	-	-	-	-	-			
2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.25	-	-	-	-	4	-	4	-	-	-	-	-	-	-	-	-			
2.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.50	-	-	-	-	3	-	3	-	-	-	-	-	-	-	-	-			
2.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.75	-	-	-	-	2	-	2	-	-	-	-	-	-	-	-	-			
2.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
2.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3.00	-	-	-	-	1	-	1	-	-	-	-	-	-	-	-	-			
3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
3.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< WINDOW >		-----<<----->>-----																			
		O R I E N T A T I O N S				T A T I O N S				W I N D O W				E F F I C I E N C Y				I N R A N K O R D E R			
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5				
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	41	1	1	1				
.50	1.25	2	3	2	12	2	12	2	2	12	2	2	3	42	3	2	2				
.50	1.50	3	11	3	23	3	23	3	3	23	3	3	7	43	5	3	3				
.50	1.75	4	15	4	32	4	32	4	4	32	4	4	15	44	11	4	4				
.75	1.00	5	2	5	2	2	2	5	5	2	5	5	2	37	2	5	5				
.75	1.25	6	14	6	13	6	13	6	6	13	6	6	10	38	8	6	6				
.75	1.50	7	18	7	24	7	24	7	7	24	7	7	18	39	17	7	7				
.75	1.75	8	27	8	32	8	32	8	8	32	8	8	25	40	21	8	8				
1.00	1.00	9	4	9	3	3	3	9	9	3	9	9	4	30	4	9	9				
1.00	1.25	10	10	11	14	11	14	11	11	14	11	11	16	34	16	11	11				
1.00	1.50	11	12	17	25	12	25	12	12	25	12	12	22	35	22	12	12				
1.00	1.75	12	14	22	36	13	36	13	13	36	13	13	30	36	29	13	13				
1.25	1.00	13	11	8	4	8	4	8	8	4	8	8	5	21	6	14	14				
1.25	1.25	14	15	16	15	15	15	16	15	16	15	15	17	29	18	16	16				
1.25	1.50	15	17	23	26	16	26	16	16	26	16	16	28	32	28	17	17				
1.25	1.75	16	21	28	37	17	37	17	17	37	17	17	35	33	33	18	18				
1.50	1.00	17	13	10	5	10	5	10	10	5	10	10	6	12	7	19	19				
1.50	1.25	18	18	21	16	16	16	17	16	17	16	16	19	24	19	20	20				
1.50	1.50	19	24	27	27	17	27	17	17	27	17	17	29	28	30	21	21				
1.50	1.75	20	28	33	38	18	38	18	18	38	18	18	38	31	38	27	27				
1.75	1.00	19	16	13	6	13	6	13	13	6	13	13	8	8	9	15	15				
1.75	1.25	22	22	24	17	17	17	20	17	20	17	17	20	19	20	24	24				
1.75	1.50	24	29	31	28	18	28	18	18	28	18	18	31	25	31	24	24				
1.75	1.75	26	34	36	39	19	39	19	19	39	19	19	39	27	39	30	30				
2.00	1.00	23	19	14	7	14	7	14	14	7	14	14	9	5	10	17	17				
2.00	1.25	27	27	25	18	25	18	25	25	18	25	25	21	14	23	26	26				
2.00	1.50	29	32	34	30	26	30	26	26	30	26	26	32	22	32	34	34				
2.00	1.75	32	37	40	40	28	40	28	28	40	28	28	40	26	40	40	39				
2.25	1.00	25	20	15	8	15	8	15	15	8	15	15	11	4	12	15	18				
2.25	1.25	30	30	26	19	26	19	26	26	19	26	26	23	10	24	26	28				
2.25	1.50	35	36	35	30	35	30	35	35	30	35	35	33	17	34	35	35				
2.25	1.75	36	40	41	41	40	41	40	40	41	40	40	41	23	41	41	41				
2.50	1.00	28	23	18	9	17	9	17	17	9	17	17	12	3	13	21	21				
2.50	1.25	34	31	29	20	28	20	28	29	20	28	29	24	9	25	29	29				
2.50	1.50	38	38	37	31	36	31	36	37	31	36	36	34	15	37	37	37				
2.50	1.75	40	42	42	42	42	42	42	42	42	42	42	42	20	42	42	42				
2.75	1.00	31	25	19	10	19	10	19	21	10	19	16	13	2	14	19	22				
2.75	1.25	37	33	30	21	30	21	30	32	21	30	28	26	7	26	30	31				
2.75	1.50	41	39	38	33	38	33	38	39	33	38	37	36	13	38	38	38				
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	18	43	43	43				
3.00	1.00	33	26	20	11	20	11	20	23	11	20	17	14	1	15	20	23				
3.00	1.25	39	35	32	23	31	23	31	34	23	31	29	27	6	32	32	33				
3.00	1.50	42	41	39	34	39	34	39	41	34	39	38	37	11	37	39	40				

WALL THICKNESS = 0.12 M

TABLE SHOWING EFFICIENCY IN RANK ORDER

<<-----<< < W I N D O W > ----->>>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	37	1	1	41	1	1	
.50	1.25	2	2	3	12	12	2	2	2	2	38	2	3	42	2	2	
.50	1.50	3	3	13	23	23	3	3	4	24	39	3	9	43	3	3	
.50	1.75	4	4	16	34	26	4	4	6	34	40	5	15	44	4	4	
.75	1.00	5	5	2	2	2	5	5	3	3	41	4	2	35	5	5	
.75	1.25	6	6	14	13	13	6	6	7	4	42	7	12	38	7	6	
.75	1.50	7	7	20	24	24	8	8	9	25	43	11	18	39	9	7	
.75	1.75	8	8	28	35	35	10	10	13	35	44	18	27	40	12	8	
1.00	1.00	9	9	4	3	3	7	7	5	5	33	6	4	26	6	9	
1.00	1.25	10	10	11	14	14	11	11	11	6	34	13	16	33	11	11	
1.00	1.50	11	12	20	25	25	15	15	17	26	35	20	24	36	22	13	
1.00	1.75	12	13	22	36	36	20	20	22	36	36	25	30	37	30	15	
1.25	1.00	13	11	8	4	4	9	9	8	7	8	8	5	12	6	10	
1.25	1.25	14	15	17	15	15	16	16	15	0	28	19	17	28	17	16	
1.25	1.50	15	17	27	26	27	23	23	23	27	31	24	28	32	24	22	
1.25	1.75	16	20	29	37	37	27	27	27	37	32	31	35	34	27	25	
1.50	1.00	17	14	10	5	5	12	12	10	9	7	9	6	7	7	12	
1.50	1.25	18	19	21	16	16	21	21	21	10	16	21	19	23	19	20	
1.50	1.50	19	24	27	27	28	26	26	26	28	26	29	29	30	27	26	
1.50	1.75	20	28	34	38	38	33	33	33	38	30	34	38	31	34	31	
1.75	1.00	21	16	13	7	6	12	13	12	11	6	10	7	6	13	14	
1.75	1.25	22	23	23	17	17	24	24	24	12	14	22	20	16	23	24	
1.75	1.50	24	29	32	30	29	30	30	30	29	21	32	31	25	32	24	
1.75	1.75	25	33	37	39	39	36	36	36	37	27	38	39	29	37	35	
2.00	1.00	23	18	14	8	7	14	14	14	13	5	12	8	5	14	17	
2.00	1.25	26	27	25	18	18	25	25	25	14	13	23	21	13	25	27	
2.00	1.50	28	32	33	31	30	34	34	34	30	20	33	32	21	33	34	
2.00	1.75	30	37	40	40	40	39	39	39	40	27	40	40	27	40	38	
2.25	1.00	27	21	15	9	8	17	17	16	15	4	14	10	4	15	18	
2.25	1.25	31	30	26	19	19	20	20	20	16	12	26	22	11	26	28	
2.25	1.50	33	36	35	31	31	35	35	35	31	19	35	33	19	35	36	
2.25	1.75	36	39	41	41	41	41	41	41	41	25	41	41	24	41	41	
2.50	1.00	29	22	16	9	9	10	10	10	17	3	15	11	3	16	19	
2.50	1.25	34	31	28	20	20	29	29	29	18	11	27	23	10	28	29	
2.50	1.50	37	38	36	31	31	37	37	37	32	18	36	34	17	36	37	
2.50	1.75	39	42	42	42	42	42	42	42	42	24	42	42	22	42	42	
2.75	1.00	32	25	18	10	10	19	19	19	19	2	16	13	2	18	21	
2.75	1.25	38	34	30	21	21	31	31	31	20	10	28	25	9	30	32	
2.75	1.50	41	40	38	32	32	38	38	38	23	17	37	36	15	38	39	
2.75	1.75	42	43	43	43	43	43	43	43	43	23	43	43	20	43	43	
3.00	1.00	35	26	19	11	11	22	22	20	21	1	17	14	1	19	23	
3.00	1.25	40	35	31	22	22	32	32	32	22	9	30	26	8	31	33	
3.00	1.50	43	41	39	34	34	40	40	40	33	15	39	37	14	39	40	
3.00	1.75	44	44	44	44	44	44	44	44	44	22	44	44	18	44	44	

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

Width.M		Height.M		NORTH		22.5		45.0		67.5		EAST		112.5		135.0		157.5		SOUTH		202.5		270.0		247.5		WEST		292.5		315.0		337.5				
1.00	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1					
1.25	1.25	2	12	11	12	11	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12				
1.50	1.50	3	23	13	23	13	23	13	23	13	23	13	23	13	23	13	23	13	23	13	23	13	23	13	23	13	23	13	23	13	23	13	23	13	23			
1.75	1.75	4	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34	16	34			
1.00	1.00	5	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14	2	14		
1.25	1.25	6	13	20	13	20	13	20	13	20	13	20	13	20	13	20	13	20	13	20	13	20	13	20	13	20	13	20	13	20	13	20	13	20	13	20		
1.50	1.50	7	24	27	24	27	24	27	24	27	24	27	24	27	24	27	24	27	24	27	24	27	24	27	24	27	24	27	24	27	24	27	24	27	24	27		
1.75	1.75	8	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	31	35	
1.00	1.00	9	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
1.25	1.25	10	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15	14	15
1.50	1.50	11	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26	19	26
1.75	1.75	12	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
1.25	1.00	13	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
1.25	1.25	14	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
1.50	1.50	15	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
1.75	1.75	16	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
1.00	1.00	17	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	
1.25	1.25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
1.50	1.50	19	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
1.75	1.75	20	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
1.00	1.00	21	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	
1.25	1.25	22	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
1.50	1.50	23	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
1.75	1.75	24	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
2.00	1.00	25	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	
2.00	1.25	26	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
2.00	1.50	28	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2.00	1.75	29	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	
2.25	1.00	27	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
2.25	1.25	31	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
2.25	1.50	32	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	
2.25	1.75	35	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	
2.50	1.00	30	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	
2.50	1.25	34	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	
2.50	1.50	37	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
2.50	1.75	39	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	
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2.75	1.75	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	
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3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< WINDOW >		-----<<												>>-----											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5								
.50	1.00	1	1	1	1	1	1	1	1	1	-	1	1	-	1	1	1								
.50	1.25	2	2	3	-	-	2	2	2	2	-	2	-	-	3	2	2								
.50	1.50	3	3	-	-	-	-	4	4	-	-	-	-	-	-	3	3								
.50	1.75	4	4	-	-	-	2	6	6	3	-	-	-	-	4	4	4								
.75	1.00	5	-	2	-	-	-	3	3	4	-	-	2	-	-	-	-								
.75	1.25	6	-	-	-	-	-	7	7	-	-	-	-	-	-	-	-								
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
.75	1.75	8	-	-	-	-	3	5	5	-	-	-	-	-	-	-	-								
1.00	1.00	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.00	1.75	-	-	-	-	-	4	-	8	-	-	-	-	-	-	-	-								
1.25	1.00	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-								
1.25	1.25	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-								
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.25	1.75	-	-	-	-	-	5	-	-	9	7	-	-	-	-	-	-								
1.50	1.00	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-								
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.50	1.75	-	-	-	-	-	6	-	-	11	6	-	-	-	-	-	-								
1.75	1.00	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-								
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.00	1.00	-	-	-	-	-	7	-	-	13	5	-	-	-	-	-	-								
2.00	1.25	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-								
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.25	1.00	-	-	-	-	-	8	-	-	15	4	-	-	-	-	-	-								
2.25	1.25	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-	-								
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.50	1.00	-	-	-	-	-	9	-	-	17	3	-	-	-	-	-	-								
2.50	1.25	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-								
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.50	1.75	-	-	-	-	-	-	-	-	19	2	-	-	-	-	-	-								
2.75	1.00	-	-	-	-	-	10	-	-	20	-	-	-	-	-	-	-								
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
3.00	1.00	-	-	-	-	-	11	-	-	21	1	-	-	-	-	-	-								
3.00	1.25	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-	-								
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								

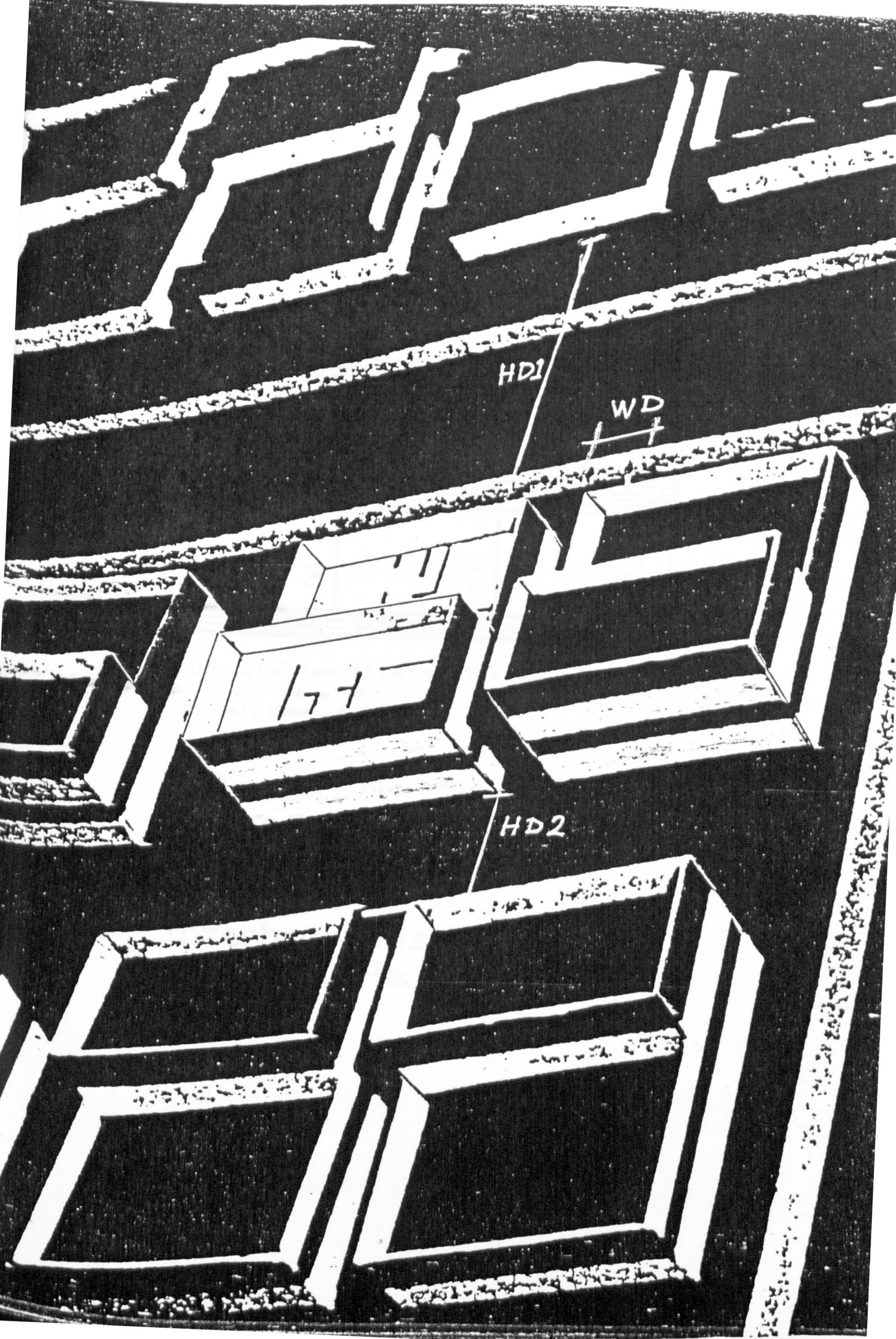
TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	-	1	1	-	1	1	1
.50	1.25	2	2	2	-	-	2	2	2	2	-	2	2	-	2	2	2
.50	1.50	3	3	3	-	-	3	3	3	3	-	3	3	-	3	3	3
.50	1.75	4	4	4	-	-	4	4	4	4	-	4	4	-	4	4	4
.75	1.00	5	-	2	2	2	5	5	5	5	-	5	5	-	5	5	5
.75	1.25	6	-	-	-	-	-	6	6	6	-	6	6	-	6	6	6
.75	1.50	7	-	-	-	-	-	7	7	7	-	7	7	-	7	7	7
.75	1.75	8	-	-	-	-	-	8	8	8	-	8	8	-	8	8	8
1.00	1.00	9	-	3	3	3	-	9	9	9	-	9	9	-	9	9	9
1.00	1.25	10	-	-	-	-	-	10	10	10	-	10	10	-	10	10	10
1.00	1.50	11	-	-	-	-	-	11	11	11	-	11	11	-	11	11	11
1.00	1.75	12	-	-	-	-	-	12	12	12	-	12	12	-	12	12	12
1.25	1.00	-	-	4	4	4	-	6	6	6	-	6	6	-	6	6	6
1.25	1.25	-	-	-	-	-	-	8	8	8	-	8	8	-	8	8	8
1.25	1.50	-	-	-	-	-	-	10	10	10	-	10	10	-	10	10	10
1.25	1.75	-	-	-	-	-	-	12	12	12	-	12	12	-	12	12	12
1.50	1.00	-	-	5	5	5	-	7	7	7	-	7	7	-	7	7	7
1.50	1.25	-	-	-	-	-	-	9	9	9	-	9	9	-	9	9	9
1.50	1.50	-	-	-	-	-	-	11	11	11	-	11	11	-	11	11	11
1.50	1.75	-	-	-	-	-	-	13	13	13	-	13	13	-	13	13	13
1.75	1.00	-	-	6	6	6	-	9	9	9	-	9	9	-	9	9	9
1.75	1.25	-	-	-	-	-	-	11	11	11	-	11	11	-	11	11	11
1.75	1.50	-	-	-	-	-	-	13	13	13	-	13	13	-	13	13	13
1.75	1.75	-	-	-	-	-	-	15	15	15	-	15	15	-	15	15	15
2.00	1.00	-	-	7	7	7	-	10	10	10	-	10	10	-	10	10	10
2.00	1.25	-	-	-	-	-	-	12	12	12	-	12	12	-	12	12	12
2.00	1.50	-	-	-	-	-	-	14	14	14	-	14	14	-	14	14	14
2.00	1.75	-	-	-	-	-	-	16	16	16	-	16	16	-	16	16	16
2.25	1.00	-	-	8	8	8	-	11	11	11	-	11	11	-	11	11	11
2.25	1.25	-	-	-	-	-	-	13	13	13	-	13	13	-	13	13	13
2.25	1.50	-	-	-	-	-	-	15	15	15	-	15	15	-	15	15	15
2.25	1.75	-	-	-	-	-	-	17	17	17	-	17	17	-	17	17	17
2.50	1.00	-	-	9	9	9	-	10	10	10	-	10	10	-	10	10	10
2.50	1.25	-	-	-	-	-	-	12	12	12	-	12	12	-	12	12	12
2.50	1.50	-	-	-	-	-	-	14	14	14	-	14	14	-	14	14	14
2.50	1.75	-	-	-	-	-	-	16	16	16	-	16	16	-	16	16	16
2.75	1.00	-	-	10	10	10	-	14	14	14	-	14	14	-	14	14	14
2.75	1.25	-	-	-	-	-	-	16	16	16	-	16	16	-	16	16	16
2.75	1.50	-	-	-	-	-	-	18	18	18	-	18	18	-	18	18	18
2.75	1.75	-	-	-	-	-	-	20	20	20	-	20	20	-	20	20	20
3.00	1.00	-	-	11	11	11	-	15	15	15	-	15	15	-	15	15	15
3.00	1.25	-	-	-	-	-	-	17	17	17	-	17	17	-	17	17	17
3.00	1.50	-	-	-	-	-	-	19	19	19	-	19	19	-	19	19	19
3.00	1.75	-	-	-	-	-	-	21	21	21	-	21	21	-	21	21	21
3.00	1.75	-	-	-	-	-	-	23	23	23	-	23	23	-	23	23	23

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

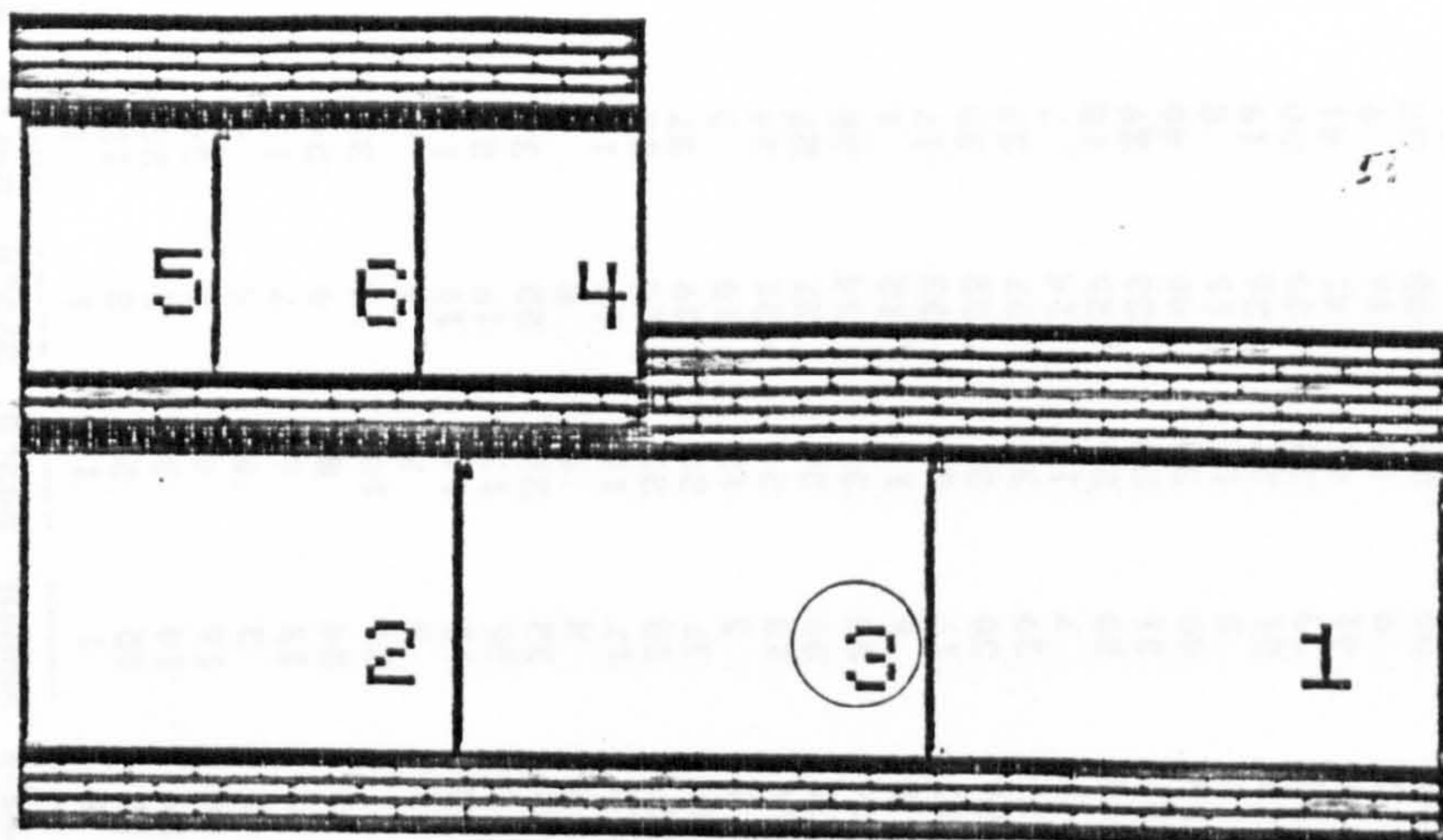


HD1

WD

177

HD2



Key diagram showing the location
of window data . . .

Side Wall No. 2
1 1/2 Storey

Interhouse Distance
1, 2, 3 and 4m.

W I N D O W >		<<-----<<												>>----->>											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5								
.50	1.00	1	1	37	37	1	1	1	1	1	1	1	1	44	37	1	1								
.50	1.25	2	2	38	38	12	12	2	12	12	2	2	12	43	38	2	2								
.50	1.50	3	3	39	39	15	14	3	21	14	3	3	23	42	39	3	3								
.50	1.75	4	4	40	40	25	16	4	30	16	4	5	34	41	40	4	4								
.75	1.00	5	5	41	41	2	2	5	2	2	5	4	2	40	41	5	5								
.75	1.25	6	6	42	42	13	13	6	13	13	6	7	13	39	42	6	6								
.75	1.50	7	8	43	43	24	24	7	22	24	8	9	24	38	43	9	7								
.75	1.75	8	10	44	44	30	27	8	31	27	10	13	35	36	44	12	9								
1.00	1.00	9	7	33	33	3	3	9	3	3	7	6	3	37	33	7	8								
1.00	1.25	10	11	34	34	14	15	10	14	15	11	11	14	35	34	11	11								
1.00	1.50	11	16	35	35	26	26	11	23	26	15	19	25	33	35	17	13								
1.00	1.75	12	22	36	36	36	32	12	33	32	22	22	36	30	36	22	16								
1.25	1.00	13	9	28	27	4	4	13	4	4	9	8	4	34	27	8	10								
1.25	1.25	14	15	30	30	16	17	14	15	17	16	17	15	31	30	15	14								
1.25	1.50	16	24	31	31	27	28	15	24	28	23	24	26	28	31	23	20								
1.25	1.75	17	30	32	32	37	37	16	34	37	20	29	37	25	32	28	25								
1.50	1.00	15	12	22	18	5	13	17	5	5	12	10	5	32	18	10	12								
1.50	1.25	21	20	26	25	17	14	10	16	18	21	21	16	27	25	21	17								
1.50	1.50	25	27	27	28	28	15	19	25	29	26	27	27	23	28	27	27								
1.50	1.75	27	34	29	29	38	38	20	36	38	33	34	30	19	29	33	32								
1.75	1.00	18	13	14	8	6	16	21	6	6	13	12	6	29	8	13	15								
1.75	1.25	26	23	21	21	18	17	22	17	19	24	23	17	24	21	24	24								
1.75	1.50	29	32	24	24	29	18	23	26	30	31	32	28	18	24	31	30								
1.75	1.75	32	38	25	26	39	39	24	37	39	36	37	39	13	26	36	36								
2.00	1.00	19	14	7	5	7	19	25	7	7	14	14	7	26	5	14	17								
2.00	1.25	28	25	16	16	17	20	26	18	20	25	25	18	20	16	25	26								
2.00	1.50	33	33	20	22	31	21	27	27	31	34	33	29	14	22	34	34								
2.00	1.75	37	40	23	23	40	40	28	38	40	37	40	40	9	23	40	37								
2.25	1.00	20	17	4	4	8	22	29	8	8	17	15	8	22	4	16	18								
2.25	1.25	30	26	11	11	20	23	30	19	21	27	26	19	16	11	26	28								
2.25	1.50	36	35	17	17	32	24	31	28	33	35	35	30	11	17	35	35								
2.25	1.75	40	41	17	20	41	41	32	39	41	41	41	41	6	20	41	41								
2.50	1.00	22	18	3	3	9	25	33	9	9	18	16	9	21	3	18	21								
2.50	1.25	31	28	8	9	21	26	34	20	22	29	28	20	12	9	29	27								
2.50	1.50	38	36	13	14	33	27	35	35	34	37	36	31	7	14	37	37								
2.50	1.75	42	42	10	19	42	42	36	41	42	42	42	42	4	19	42	42								
2.75	1.00	23	19	2	2	10	28	37	10	10	19	18	10	17	2	19	22								
2.75	1.25	34	29	6	7	22	27	38	29	23	30	30	21	10	7	30	31								
2.75	1.50	39	37	10	12	34	30	39	40	35	38	38	32	5	12	38	38								
2.75	1.75	43	43	15	15	43	43	40	43	43	43	43	43	2	15	43	43								
3.00	1.00	24	21	1	1	11	31	41	11	11	20	20	11	15	1	20	23								
3.00	1.25	35	31	5	6	23	32	42	32	25	32	31	22	8	6	32	33								
3.00	1.50	41	39	9	10	35	33	43	42	36	40	39	33	3	10	39	40								

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	25	25	1	1	1	1	1	1	1	1	37	25	1	1
.50	1.25	2	2	26	26	12	2	2	2	2	2	2	12	38	26	2	2
.50	1.50	3	3	27	27	23	3	3	3	3	3	3	23	39	27	3	3
.50	1.75	4	4	28	28	26	4	4	34	34	7	4	34	40	28	4	4
.75	1.00	5	5	29	29	2	5	4	4	4	4	5	2	41	29	5	5
.75	1.25	6	6	30	30	13	6	5	5	5	5	6	13	42	30	6	6
.75	1.50	7	7	31	31	24	7	6	6	6	6	7	24	43	31	7	7
.75	1.75	8	9	32	32	35	8	8	35	35	8	9	35	44	32	8	8
1.00	1.00	9	8	33	33	3	9	9	7	7	9	8	3	36	33	9	9
1.00	1.25	10	13	34	34	14	10	10	8	8	10	10	14	36	34	11	11
1.00	1.50	11	19	35	35	25	11	11	9	9	11	12	25	35	35	13	13
1.00	1.75	12	21	36	36	36	12	12	36	36	13	15	36	34	36	20	20
1.25	1.00	13	10	37	37	4	13	13	10	10	12	11	4	32	37	22	22
1.25	1.25	14	20	38	38	15	14	14	11	11	14	14	15	33	38	8	10
1.25	1.50	15	23	39	39	27	15	15	12	12	16	18	26	31	39	17	16
1.25	1.75	16	27	40	40	37	16	16	37	37	25	23	37	26	40	29	25
1.50	1.00	17	11	41	41	5	17	17	13	13	15	13	5	30	41	10	12
1.50	1.25	18	22	42	42	16	18	18	14	14	19	19	16	27	42	21	20
1.50	1.50	19	28	43	43	28	19	19	15	15	22	26	27	24	43	27	26
1.50	1.75	20	33	44	44	38	20	20	38	38	31	29	38	20	44	34	31
1.75	1.00	21	12	15	23	6	21	21	16	16	17	16	6	28	23	13	14
1.75	1.25	22	24	22	21	17	22	22	17	17	24	24	17	23	21	23	24
1.75	1.50	23	32	23	22	29	23	23	18	18	28	30	28	18	22	32	30
1.75	1.75	24	36	24	24	39	24	24	39	39	36	34	39	14	24	37	35
2.00	1.00	25	14	6	18	7	25	25	19	19	18	17	7	25	18	14	17
2.00	1.25	26	25	18	9	18	26	26	20	20	27	27	18	19	9	25	27
2.00	1.50	27	34	20	17	30	27	27	21	21	32	33	29	13	17	33	34
2.00	1.75	28	40	21	20	40	28	28	40	40	40	37	40	9	20	40	38
2.25	1.00	29	15	4	12	8	29	29	22	22	20	20	8	22	12	15	18
2.25	1.25	30	26	11	4	19	30	30	23	23	27	28	17	15	4	26	28
2.25	1.50	31	35	17	13	31	31	31	24	24	35	36	30	11	13	35	36
2.25	1.75	32	41	19	19	41	32	32	41	41	41	40	41	6	19	41	41
2.50	1.00	33	16	3	8	9	33	33	25	25	21	21	9	21	8	16	19
2.50	1.25	34	27	8	3	20	34	34	26	26	30	31	20	12	3	28	27
2.50	1.50	35	37	13	11	32	35	35	27	27	37	30	31	7	11	36	37
2.50	1.75	42	42	16	16	42	36	36	42	42	42	42	42	4	16	42	42
2.75	1.00	36	17	2	6	10	37	37	28	28	23	22	10	17	6	18	21
2.75	1.25	37	30	7	2	21	38	38	27	27	33	32	21	10	2	30	32
2.75	1.50	38	38	10	10	33	39	39	30	30	38	39	32	5	10	38	39
2.75	1.75	43	43	14	15	43	40	40	43	43	43	43	43	2	15	43	43
3.00	1.00	39	18	1	5	11	41	41	31	31	26	25	11	16	5	19	23
3.00	1.25	40	31	5	1	22	42	42	32	32	34	35	22	8	1	31	23
3.00	1.50	41	39	9	7	34	43	43	33	33	39	41	33	3	7	39	33
3.00	1.75	44	44	12	14	44	44	44	44	44	44	44	44	1	14	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

< W I N D O W > <<----->> <>----->>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
1.00	1.00	1	1	13	5	1	1	1	1	1	1	1	1	29	5	1	1
.50	1.25	2	2	14	6	2	2	2	2	2	2	2	2	30	6	2	2
.50	1.50	3	3	15	7	3	3	3	3	3	3	3	3	31	7	3	3
.50	1.75	4	4	16	8	4	4	4	4	4	4	4	4	32	8	4	4
.75	1.00	5	5	17	9	5	5	5	5	5	5	5	5	33	9	5	5
.75	1.25	6	6	18	10	6	6	6	6	6	6	6	6	34	10	6	6
.75	1.50	7	7	19	11	7	7	7	7	7	7	7	7	35	11	7	7
.75	1.75	8	8	20	12	8	8	8	8	8	8	8	8	36	12	8	8
1.00	1.00	9	9	21	13	9	9	9	9	9	9	9	9	37	13	9	9
1.00	1.25	10	10	22	14	10	10	10	10	10	10	10	10	38	14	10	10
1.00	1.50	11	11	23	15	11	11	11	11	11	11	11	11	39	15	11	11
1.00	1.75	12	12	24	16	12	12	12	12	12	12	12	12	40	16	12	12
1.25	1.00	13	13	25	17	13	13	13	13	13	13	13	13	41	17	13	13
1.25	1.25	14	14	26	18	14	14	14	14	14	14	14	14	42	18	14	14
1.25	1.50	15	15	27	19	15	15	15	15	15	15	15	15	43	19	15	15
1.25	1.75	16	16	28	20	16	16	16	16	16	16	16	16	44	20	16	16
1.50	1.00	17	17	29	21	17	17	17	17	17	17	17	17	28	21	17	17
1.50	1.25	18	18	30	22	18	18	18	18	18	18	18	18	26	22	18	18
1.50	1.50	19	19	31	23	19	19	19	19	19	19	19	19	24	23	19	19
1.50	1.75	20	20	32	24	20	20	20	20	20	20	20	20	21	24	20	20
1.75	1.00	21	21	33	25	21	21	21	21	21	21	21	21	27	25	21	21
1.75	1.25	22	22	34	26	22	22	22	22	22	22	22	22	22	26	22	22
1.75	1.50	23	23	35	27	23	23	23	23	23	23	23	23	16	27	23	23
1.75	1.75	24	24	36	28	24	24	24	24	24	24	24	24	14	28	24	24
2.00	1.00	25	25	37	29	25	25	25	25	25	25	25	25	25	29	25	25
2.00	1.25	26	26	38	30	26	26	26	26	26	26	26	26	10	30	26	26
2.00	1.50	27	27	39	31	27	27	27	27	27	27	27	27	13	31	27	27
2.00	1.75	28	28	40	32	28	28	28	28	28	28	28	28	9	32	28	28
2.25	1.00	29	29	41	33	29	29	29	29	29	29	29	29	23	33	29	29
2.25	1.25	30	30	42	34	30	30	30	30	30	30	30	30	15	34	30	30
2.25	1.50	31	31	43	35	31	31	31	31	31	31	31	31	10	35	31	31
2.25	1.75	32	32	44	36	32	32	32	32	32	32	32	32	6	36	32	32
2.50	1.00	33	33	6	37	33	33	33	33	33	33	33	33	20	37	33	33
2.50	1.25	34	34	5	38	34	34	34	34	34	34	34	34	12	38	34	34
2.50	1.50	35	35	11	39	35	35	35	35	35	35	35	35	7	39	35	35
2.50	1.75	36	36	12	40	36	36	36	36	36	36	36	36	4	40	36	36
2.75	1.00	37	37	4	41	37	37	37	37	37	37	37	37	19	41	37	37
2.75	1.25	38	38	3	42	38	38	38	38	38	38	38	38	11	42	38	38
2.75	1.50	39	39	8	43	39	39	39	39	39	39	39	39	5	43	39	39
2.75	1.75	40	40	10	44	40	40	40	40	40	40	40	40	2	44	40	40
3.00	1.00	41	41	2	45	41	41	41	41	41	41	41	41	17	45	41	41
3.00	1.25	42	42	1	46	42	42	42	42	42	42	42	42	8	46	42	42
3.00	1.50	43	43	7	47	43	43	43	43	43	43	43	43	3	47	43	43
3.00	1.75	44	44	9	48	44	44	44	44	44	44	44	44	1	48	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

<<-----<< < W I N D O W > ----->>>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	37	1	1	37	1	1	1	1	25	1
.50	1.25	2	2	2	3	12	12	38	2	2	38	12	12	12	3	26	2
.50	1.50	3	3	13	23	23	24	39	4	24	39	23	23	23	13	27	3
.50	1.75	4	4	16	34	26	34	40	6	34	40	27	34	26	16	28	4
.75	1.00	5	5	2	2	2	3	41	3	3	41	2	2	2	2	29	5
.75	1.25	6	6	14	13	13	4	42	7	4	42	13	13	13	14	30	6
.75	1.50	7	7	20	24	24	25	43	9	25	43	24	24	24	20	31	7
.75	1.75	8	8	28	35	35	35	44	13	35	44	35	35	35	28	32	8
1.00	1.00	9	9	4	3	3	3	33	5	5	33	3	3	3	4	33	9
1.00	1.25	10	11	15	14	14	6	34	11	6	34	14	14	14	15	34	10
1.00	1.50	11	13	26	25	25	26	35	17	26	35	25	25	25	26	35	11
1.00	1.75	12	15	34	36	36	36	36	22	36	36	36	36	36	34	36	12
1.25	1.00	13	10	7	4	4	7	23	0	7	23	4	4	4	5	37	13
1.25	1.25	14	16	19	17	15	15	20	15	15	28	15	15	15	17	38	14
1.25	1.50	15	22	25	27	27	27	31	23	27	31	26	26	27	27	39	15
1.25	1.75	16	25	31	37	37	37	32	27	37	32	37	37	37	37	40	16
1.50	1.00	17	12	9	6	5	9	9	10	9	7	5	5	5	6	41	17
1.50	1.25	18	20	21	18	16	16	26	21	10	16	16	16	16	10	42	18
1.50	1.50	19	26	30	29	28	27	28	26	28	26	28	27	28	29	43	19
1.50	1.75	20	31	35	38	38	30	27	33	30	30	30	38	38	44	44	20
1.75	1.00	19	14	10	7	6	6	6	12	11	6	6	6	6	7	15	21
1.75	1.25	23	24	22	19	17	17	20	24	12	14	17	17	17	19	22	22
1.75	1.50	24	30	32	30	29	28	25	30	29	21	29	28	29	30	23	23
1.75	1.75	27	35	39	39	39	39	27	36	39	29	39	39	39	39	24	24
2.00	1.00	22	17	11	8	7	7	5	14	13	5	7	7	7	8	6	25
2.00	1.25	26	27	23	21	18	18	14	25	14	13	18	18	18	21	10	25
2.00	1.50	30	34	33	31	30	29	21	34	30	20	30	29	30	31	20	26
2.00	1.75	33	40	40	40	40	40	24	37	40	27	40	40	40	40	21	27
2.25	1.00	25	18	12	9	8	8	4	16	15	4	8	8	8	9	4	28
2.25	1.25	31	24	22	22	17	19	11	23	16	12	17	17	17	22	11	29
2.25	1.50	35	36	34	32	31	30	18	35	31	19	31	30	31	32	17	30
2.25	1.75	37	41	41	41	41	41	22	41	41	25	41	41	41	41	19	31
2.50	1.00	28	19	14	10	9	9	3	18	17	3	9	9	9	10	3	32
2.50	1.25	34	29	27	23	20	20	10	27	18	11	20	20	20	23	8	33
2.50	1.50	38	37	36	33	32	31	15	37	32	18	32	31	32	33	13	34
2.50	1.75	41	42	42	42	42	42	19	42	42	24	42	42	42	42	16	35
2.75	1.00	29	21	16	11	10	10	2	19	19	2	10	10	10	11	2	36
2.75	1.25	36	32	28	24	21	21	8	31	20	10	21	21	21	24	7	37
2.75	1.50	40	39	37	35	33	32	13	38	33	17	33	32	33	35	10	38
2.75	1.75	43	43	43	43	43	43	17	43	43	23	43	43	43	43	14	39
3.00	1.00	32	23	17	12	11	11	1	20	21	1	11	11	11	12	1	40
3.00	1.25	39	33	29	25	22	22	9	32	22	9	22	22	22	25	5	41
3.00	1.50	42	40	38	36	34	33	12	40	33	15	34	33	34	36	9	42
3.00	1.75	44	44	44	44	44	44	16	44	44	22	44	44	44	44	12	43

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T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

<-----<< < WINDOW > ----->>----->

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	29	1	1	29	1	1	1	1	13	1
.50	1.25	2	2	2	11	12	12	30	2	2	30	12	12	12	11	14	2
.50	1.50	3	3	3	13	23	23	31	3	3	31	23	23	23	13	15	3
.50	1.75	4	4	4	16	34	34	32	12	4	32	34	34	34	16	16	4
.75	1.00	5	5	5	2	2	2	33	4	5	33	2	2	2	2	17	5
.75	1.25	6	6	7	14	13	13	34	0	6	34	13	13	13	14	18	6
.75	1.50	7	7	12	20	24	24	35	17	7	35	24	24	24	20	19	7
.75	1.75	8	8	19	27	35	35	36	19	8	36	35	35	35	27	20	8
1.00	1.00	9	9	6	3	3	3	37	5	9	37	3	3	3	3	21	9
1.00	1.25	10	10	13	15	14	14	38	16	10	38	14	14	14	15	22	10
1.00	1.50	11	12	22	26	25	25	39	20	11	39	25	25	25	26	23	11
1.00	1.75	12	14	29	31	36	36	40	25	12	40	36	36	36	31	24	12
1.25	1.00	13	11	8	4	4	4	41	6	13	41	4	4	4	4	25	13
1.25	1.25	14	15	18	17	15	15	42	18	14	42	15	15	15	17	26	14
1.25	1.50	15	21	28	28	26	26	43	23	15	43	26	26	26	28	27	15
1.25	1.75	16	25	32	37	37	37	44	30	16	44	37	37	37	37	28	16
1.50	1.00	17	13	9	5	5	5	25	7	17	25	5	5	5	5	29	17
1.50	1.25	18	20	20	10	16	16	21	21	18	26	16	16	16	18	30	18
1.50	1.50	19	27	30	29	27	27	27	28	19	27	27	27	27	29	31	19
1.50	1.75	20	32	36	38	38	38	28	34	20	38	38	38	38	30	32	20
1.75	1.00	21	16	10	6	6	6	12	9	21	6	6	6	6	6	33	21
1.75	1.25	22	24	21	19	17	17	10	22	22	13	17	17	17	17	34	22
1.75	1.50	23	31	31	30	28	28	24	32	23	23	28	28	28	30	35	23
1.75	1.75	25	35	39	39	39	39	26	36	24	25	37	39	39	39	36	24
2.00	1.00	24	17	11	7	7	7	11	10	25	5	7	7	7	7	37	25
2.00	1.25	27	26	23	21	18	18	7	24	26	11	18	18	18	21	38	26
2.00	1.50	29	34	33	32	29	29	19	33	27	18	29	29	29	32	39	27
2.00	1.75	33	38	40	40	40	40	23	39	28	24	40	40	40	40	40	28
2.25	1.00	26	18	14	8	8	8	9	11	29	1	8	8	8	8	41	29
2.25	1.25	31	28	24	22	19	19	4	26	30	10	19	19	19	22	42	30
2.25	1.50	35	36	34	33	30	30	16	35	31	17	30	30	30	33	43	31
2.25	1.75	37	41	41	41	41	41	22	41	32	22	41	41	41	41	44	32
2.50	1.00	28	19	15	9	9	9	8	13	33	2	9	9	9	9	6	33
2.50	1.25	34	29	25	23	20	20	3	27	34	9	20	20	20	23	5	34
2.50	1.50	38	37	35	34	31	31	15	37	35	16	31	31	31	34	11	35
2.50	1.75	40	42	42	42	42	42	20	42	36	21	42	42	42	42	12	36
2.75	1.00	30	22	16	10	10	10	6	14	37	3	10	10	10	10	4	37
2.75	1.25	36	30	26	24	21	21	2	27	38	8	21	21	21	24	3	38
2.75	1.50	41	39	37	35	32	32	14	38	39	15	32	32	32	35	8	39
2.75	1.75	43	43	43	43	43	43	18	43	40	20	43	43	43	43	10	40
3.00	1.00	32	23	17	12	11	11	5	15	41	4	11	11	11	12	2	41
3.00	1.25	39	33	27	25	22	22	1	31	42	7	22	22	22	25	1	42
3.00	1.50	42	40	38	36	33	33	13	40	43	14	33	33	33	36	7	43
3.00	1.75	44	44	44	44	44	44	17	44	44	19	44	44	44	44	7	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< WINDOW >		-----<<											>>-----										
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5						
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2						
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3						
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4						
.75	1.00			2	2	2	2	2	2	2	2	2	2	2	2	2	2						
.75	1.25																						
.75	1.50																						
.75	1.75																						
1.00	1.00				3	3	3	3	3	3	3	3	3	3	3	3	3						
1.00	1.25																						
1.00	1.50																						
1.00	1.75																						
1.25	1.00				4	4	4	4	4	4	4	4	4	4	4	4	4						
1.25	1.25																						
1.25	1.50																						
1.25	1.75																						
1.50	1.00				5	5	5	5	5	5	5	5	5	5	5	5	5						
1.50	1.25																						
1.50	1.50																						
1.50	1.75																						
1.75	1.00																						
1.75	1.25																						
1.75	1.50																						
1.75	1.75																						
2.00	1.00						7	7	7	7	7	7	7	7	7	7	7						
2.00	1.25																						
2.00	1.50																						
2.00	1.75																						
2.25	1.00															4	4						
2.25	1.25															11	11						
2.25	1.50																						
2.25	1.75																						
2.50	1.00															3	3						
2.50	1.25															8	8						
2.50	1.50															13	13						
2.50	1.75																						
2.75	1.00						10	10	10	10	10	10	10	10	10	10	10						
2.75	1.25															2	2						
2.75	1.50															6	6						
2.75	1.75															10	10						
3.00	1.00						11	11	11	11	11	11	11	11	11	11	11						
3.00	1.25															1	1						
3.00	1.50															5	5						
3.00	1.75															9	9						

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	3	2	2	2	2	2	2	2	2	3	2	2
.50	1.50	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
.50	1.75	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.00	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.25	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.50	7	7	7	8	8	8	8	8	8	8	8	8	8	8	8	8
.75	1.75	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.00	9	9	9	10	10	10	10	10	10	10	10	10	10	10	10	10
1.00	1.25	10	10	10	11	11	11	11	11	11	11	11	11	11	11	11	11
1.00	1.50	11	11	11	12	12	12	12	12	12	12	12	12	12	12	12	12
1.00	1.75	12	12	12	13	13	13	13	13	13	13	13	13	13	13	13	13
1.25	1.00	13	13	13	14	14	14	14	14	14	14	14	14	14	14	14	14
1.25	1.25																
1.25	1.50																
1.25	1.75																
1.50	1.00																
1.50	1.25																
1.50	1.50																
1.50	1.75																
1.75	1.00																
1.75	1.25																
1.75	1.50																
1.75	1.75																
2.00	1.00																
2.00	1.25																
2.00	1.50																
2.00	1.75																
2.25	1.00																
2.25	1.25																
2.25	1.50																
2.25	1.75																
2.50	1.00																
2.50	1.25																
2.50	1.50																
2.50	1.75																
2.75	1.00																
2.75	1.25																
2.75	1.50																
2.75	1.75																
3.00	1.00																
3.00	1.25																
3.00	1.50																
3.00	1.75																

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

Width.M		Height.M		NORTH		22.5		45.0		67.5		EAST		112.5		135.0		157.5		SOUTH		202.5		270.0		247.5		WEST		292.5		315.0		337.5		
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1			
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
1.00	1.25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
1.00	1.50	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
1.00	1.75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
1.25	1.00	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	
1.25	1.25	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	
1.25	1.50	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	
1.25	1.75	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	
1.50	1.00	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	
1.50	1.25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
1.50	1.50	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
1.50	1.75	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	
1.75	1.00	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	
1.75	1.25	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	
1.75	1.50	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	
1.75	1.75																																			
2.00	1.00																																			
2.00	1.25																																			
2.00	1.50																																			
2.00	1.75																																			
2.25	1.00																																			
2.25	1.25																																			
2.25	1.50																																			
2.25	1.75																																			
2.50	1.00																																			
2.50	1.25																																			
2.50	1.50																																			
2.50	1.75																																			
2.75	1.00																																			
2.75	1.25																																			
2.75	1.50																																			
2.75	1.75																																			
3.00	1.00																																			
3.00	1.25																																			
3.00	1.50																																			
3.00	1.75																																			

WALL THICKNESS = 0.36 M

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	0	2	2	12	2	12	8	12	3	2	2
.50	1.50	3	3	3	6	16	14	3	3	15	3	15	14	23	11	3	3
.50	1.75	4	4	4	15	25	25	4	4	24	4	24	25	26	15	4	4
.75	1.00	5	5	5	2	2	3	5	5	2	5	2	2	2	2	4	5
.75	1.25	6	6	6	10	13	8	6	6	13	6	13	13	13	14	7	6
.75	1.50	7	7	7	17	24	23	0	0	25	8	25	23	24	18	10	7
.75	1.75	8	8	8	24	32	29	9	9	28	9	29	29	35	27	15	9
1.00	1.00	9	9	9	4	3	3	7	7	3	7	3	3	3	4	6	8
1.00	1.25	10	10	11	16	14	15	11	11	14	11	14	15	14	16	12	11
1.00	1.50	11	11	17	22	26	21	14	14	26	14	26	26	25	25	20	13
1.00	1.75	12	13	22	30	36	27	18	18	36	18	36	36	36	30	23	16
1.25	1.00	13	12	8	5	4	7	10	10	4	10	4	4	4	5	8	10
1.25	1.25	14	14	16	18	15	10	15	15	16	15	16	16	15	17	19	14
1.25	1.50	15	16	23	28	27	25	22	22	27	22	27	27	27	28	24	20
1.25	1.75	16	18	28	34	37	32	26	26	37	26	37	37	37	35	31	25
1.50	1.00	17	15	10	7	5	9	12	12	5	12	5	5	5	6	9	12
1.50	1.25	18	17	21	19	17	20	20	20	17	20	17	17	16	19	21	19
1.50	1.50	20	21	27	29	28	30	27	27	29	27	28	28	28	29	28	27
1.50	1.75	21	24	33	38	38	35	31	31	38	31	38	38	38	38	34	32
1.75	1.00	19	17	13	8	6	10	13	13	6	13	6	6	6	7	11	15
1.75	1.25	23	22	24	20	18	22	24	24	18	24	18	18	17	20	22	24
1.75	1.50	25	27	31	31	29	31	30	30	30	30	30	30	29	31	32	30
1.75	1.75	27	31	36	39	39	39	36	36	39	36	37	37	39	39	38	36
2.00	1.00	22	20	14	9	7	11	16	16	7	16	7	7	7	8	13	17
2.00	1.25	26	26	25	21	17	23	25	25	17	25	19	19	18	21	25	26
2.00	1.50	30	32	34	32	30	33	33	33	31	33	31	31	30	32	33	34
2.00	1.75	33	36	40	40	40	40	38	38	40	38	40	40	40	40	40	39
2.25	1.00	24	23	15	11	8	12	17	17	8	17	8	9	8	9	14	18
2.25	1.25	31	30	26	23	20	24	28	28	20	28	20	20	19	22	26	28
2.25	1.50	35	35	35	33	31	34	35	35	32	35	32	32	31	33	35	35
2.25	1.75	37	39	41	41	41	41	40	40	41	40	41	41	41	41	41	41
2.50	1.00	28	25	18	12	9	15	19	19	9	19	9	10	9	10	16	21
2.50	1.25	34	33	29	25	21	26	29	29	21	29	21	21	20	23	27	29
2.50	1.50	38	38	37	35	33	36	37	37	33	37	33	33	32	34	36	37
2.50	1.75	41	41	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	29	28	19	13	10	16	21	21	10	21	10	11	10	12	17	22
2.75	1.25	36	34	30	26	22	28	32	32	22	32	22	22	21	24	29	31
2.75	1.50	40	40	38	36	34	37	39	39	34	39	34	34	33	36	37	38
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	32	29	20	14	11	17	23	23	11	23	11	12	11	13	18	23
3.00	1.25	39	37	32	27	23	29	34	34	23	34	23	24	22	26	30	33
3.00	1.50	42	42	39	37	35	38	41	41	35	41	35	35	34	37	39	40

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

<<-----<< < W I N D O W > ----->>>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	37	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	12	2	2	2	38	12	12	12	3	2	2
.50	1.50	3	3	3	6	23	15	4	4	24	39	14	15	23	3	3	3
.50	1.75	4	4	4	15	26	25	5	6	34	40	22	25	31	5	4	4
.75	1.00	5	5	5	2	2	3	3	3	3	41	2	2	2	4	5	5
.75	1.25	6	6	7	10	13	13	7	7	4	42	13	13	13	8	6	6
.75	1.50	7	7	9	18	24	24	11	9	25	43	25	24	24	13	7	7
.75	1.75	8	8	12	27	35	30	18	13	35	44	28	30	35	18	8	8
1.00	1.00	9	9	6	4	3	3	6	5	5	33	3	3	3	6	9	9
1.00	1.25	10	10	11	16	14	14	13	11	6	34	15	14	14	15	11	11
1.00	1.50	11	11	20	24	25	26	20	17	26	35	26	26	25	20	13	13
1.00	1.75	12	12	31	31	36	36	25	22	36	36	36	36	36	26	15	15
1.25	1.00	13	13	5	5	4	4	8	8	7	8	4	4	4	7	10	10
1.25	1.25	14	14	17	17	15	16	17	15	8	28	16	16	15	17	16	16
1.25	1.50	15	16	24	28	27	27	24	23	27	31	27	27	26	25	22	22
1.25	1.75	16	17	37	37	37	37	31	27	37	32	37	37	37	31	25	25
1.50	1.00	17	15	7	7	5	5	9	10	9	7	5	5	5	9	12	12
1.50	1.25	18	19	19	19	16	17	21	21	10	16	17	17	16	18	21	20
1.50	1.50	19	21	27	29	28	28	30	26	28	26	29	28	27	29	30	26
1.50	1.75	20	24	34	38	38	38	35	33	38	30	38	38	38	35	31	31
1.75	1.00	21	18	8	6	6	6	10	12	11	6	6	6	6	10	14	14
1.75	1.25	22	22	23	20	17	18	23	24	12	14	18	18	17	22	24	24
1.75	1.50	24	26	32	30	29	29	32	30	29	21	30	29	28	30	30	30
1.75	1.75	25	29	37	39	39	37	38	36	39	27	39	39	39	39	35	35
2.00	1.00	23	20	14	9	7	7	12	14	13	5	7	7	7	11	17	17
2.00	1.25	27	27	25	21	18	19	23	25	14	13	19	19	18	21	23	27
2.00	1.50	28	32	33	32	30	31	33	34	30	20	31	31	29	33	34	34
2.00	1.75	31	34	40	40	40	40	40	37	40	27	40	40	40	40	38	38
2.25	1.00	26	23	15	11	8	8	14	16	15	4	8	8	8	12	18	18
2.25	1.25	30	31	26	22	19	20	26	28	16	12	20	20	19	22	28	28
2.25	1.50	33	35	33	33	31	32	34	35	31	19	32	32	30	34	36	36
2.25	1.75	36	39	41	41	41	41	41	41	41	25	41	41	41	41	41	41
2.50	1.00	29	25	16	12	9	9	15	18	17	3	9	9	9	14	19	19
2.50	1.25	34	33	28	23	20	21	27	29	18	11	21	21	20	27	29	29
2.50	1.50	38	38	36	34	32	33	36	37	32	18	33	33	32	36	37	37
2.50	1.75	40	41	42	42	42	42	42	42	42	24	42	42	42	42	42	42
2.75	1.00	32	28	18	13	10	10	16	19	19	2	10	10	10	16	21	21
2.75	1.25	37	36	25	25	21	22	28	31	20	10	23	22	21	28	32	32
2.75	1.50	41	40	38	35	33	34	37	38	23	17	34	34	33	37	39	39
2.75	1.75	42	43	43	43	43	43	43	43	43	23	43	43	43	43	43	43
3.00	1.00	35	30	19	14	11	11	17	20	21	1	11	11	11	17	23	23
3.00	1.25	39	37	31	26	22	23	29	32	22	9	24	23	22	29	33	33
3.00	1.50	43	42	39	36	34	35	39	40	33	15	35	35	34	38	40	40
3.00	1.75	44	44	44	44	44	44	44	44	44	22	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

Window		Orientation												Rank			
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	29	41	1	1	1	1	1
.50	1.25	2	2	2	3	12	9	2	2	2	30	42	9	12	11	2	2
.50	1.50	3	3	3	10	23	17	3	3	3	31	43	17	23	13	3	3
.50	1.75	4	4	4	15	34	25	5	12	4	32	44	25	34	16	4	4
.75	1.00	5	5	5	2	2	2	4	4	5	33	37	2	2	2	5	5
.75	1.25	6	6	6	14	13	13	7	8	6	34	38	13	13	14	7	6
.75	1.50	7	7	7	18	24	24	10	17	7	35	39	24	24	20	12	7
.75	1.75	8	8	8	27	35	32	18	19	8	36	40	32	35	27	19	8
1.00	1.00	9	9	12	4	3	3	6	5	9	37	25	3	3	3	6	9
1.00	1.25	10	10	11	16	14	14	12	16	10	38	26	14	14	15	13	10
1.00	1.50	11	11	19	25	25	26	21	20	11	39	27	26	25	26	22	12
1.00	1.75	12	12	23	30	36	35	27	25	12	40	28	36	36	31	29	14
1.25	1.00	13	13	9	5	4	4	8	6	13	41	14	4	4	4	8	11
1.25	1.25	14	14	16	17	15	15	19	10	14	42	29	15	15	17	10	15
1.25	1.50	15	15	24	28	26	27	25	23	15	43	32	27	26	28	28	21
1.25	1.75	16	17	31	35	37	37	32	30	16	44	33	37	37	37	32	25
1.50	1.00	17	16	10	6	5	5	9	7	17	7	8	5	5	5	9	13
1.50	1.25	18	18	21	17	16	16	20	21	18	26	27	16	16	18	20	20
1.50	1.50	19	20	29	29	27	28	30	28	19	27	30	28	27	29	30	27
1.50	1.75	20	23	34	30	38	38	35	34	20	28	31	38	38	36	36	32
1.75	1.00	21	19	13	7	6	6	11	9	21	6	6	6	6	10	10	16
1.75	1.25	22	22	22	20	17	18	23	22	22	13	21	18	17	19	21	24
1.75	1.50	23	25	32	31	28	29	31	32	23	23	26	29	28	30	31	31
1.75	1.75	24	29	37	37	39	37	39	36	24	25	28	39	39	37	39	35
2.00	1.00	25	21	14	8	7	7	13	10	25	5	5	7	7	7	11	17
2.00	1.25	26	26	25	21	18	19	23	24	26	12	15	17	18	21	23	26
2.00	1.50	28	33	33	32	29	30	33	33	27	18	22	30	29	32	33	34
2.00	1.75	29	34	40	40	40	40	40	39	28	24	24	40	40	40	40	38
2.25	1.00	27	24	15	9	8	8	14	11	29	4	4	8	8	8	14	18
2.25	1.25	31	30	26	22	19	20	24	26	30	11	11	20	19	22	24	28
2.25	1.50	33	35	35	33	30	31	34	35	31	17	19	31	30	33	34	36
2.25	1.75	36	39	41	41	41	41	41	41	32	22	23	41	41	41	41	41
2.50	1.00	30	27	17	11	9	10	15	13	33	3	3	10	9	9	15	19
2.50	1.25	34	27	27	23	20	21	26	27	34	10	10	21	20	23	25	29
2.50	1.50	37	38	36	34	31	33	36	37	35	16	17	33	31	34	35	37
2.50	1.75	39	41	42	42	42	42	42	42	36	21	20	42	42	42	42	42
2.75	1.00	32	28	18	12	10	11	16	14	37	2	2	11	10	10	16	22
2.75	1.25	38	20	20	24	21	22	28	27	38	9	7	22	21	24	26	30
2.75	1.50	41	38	38	36	32	34	37	38	39	15	13	34	32	35	37	39
2.75	1.75	42	43	43	43	43	43	43	43	40	20	18	43	43	43	43	43
3.00	1.00	35	31	20	13	11	12	17	15	41	1	1	12	11	12	17	23
3.00	1.25	40	30	30	26	23	23	29	31	42	8	7	23	22	25	27	33
3.00	1.50	43	39	37	37	33	35	38	40	43	14	12	35	33	36	38	40
3.00	1.75	44	44	44	44	44	44	44	44	44	19	16	44	44	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< WINDOW >		-----<<											>>-----										
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5						
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
.50	1.25	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2						
.50	1.50	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3						
.50	1.75	4	4	4	1	4	4	4	4	4	4	4	4	4	4	4	4						
.75	1.00	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2						
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.00	1.00	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3						
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.25	1.00	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4						
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.50	1.00	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5						
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

< WINDOW >		-----<<											>>-----										
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST,	392.5	315.0	337.5						
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
.50	1.25	2	2	2	3	2	2	2	2	2	2	2	2	2	3	2	2						
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3						
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4						
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5						
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6						
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7						
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8						
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9						
1.00	1.25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10						
1.00	1.50	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11						
1.00	1.75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12						
1.25	1.00	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13						
1.25	1.25	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14						
1.25	1.50	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15						
1.25	1.75	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16						
1.50	1.00	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17						
1.50	1.25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18						
1.50	1.50	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19						
1.50	1.75	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20						
1.75	1.00	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21						
1.75	1.25	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22						
1.75	1.50	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23						
1.75	1.75	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24						
2.00	1.00	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25						
2.00	1.25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26						
2.00	1.50	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27						
2.00	1.75	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28						
2.25	1.00	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29						
2.25	1.25	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30						
2.25	1.50	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31						
2.25	1.75	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32						
2.50	1.00	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33						
2.50	1.25	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34						
2.50	1.50	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35						
2.50	1.75	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36						
2.75	1.00	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37						
2.75	1.25	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38						
2.75	1.50	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39						
2.75	1.75	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40						
3.00	1.00	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41						
3.00	1.25	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42						
3.00	1.50	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43						
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44						

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	41	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	2	2	2	12	42	3	0	12	3	2	2
.50	1.50	3	3	3	5	23	3	3	3	15	43	8	14	23	6	3	3
.50	1.75	4	4	4	11	26	4	4	4	24	44	15	25	26	15	5	4
.75	1.00	5	5	5	2	2	5	5	5	2	10	2	2	2	2	4	5
.75	1.25	6	6	6	8	13	6	6	6	13	24	12	13	13	10	7	6
.75	1.50	7	7	7	17	24	7	7	7	25	38	18	23	24	17	10	7
.75	1.75	8	8	8	21	35	9	9	9	28	40	26	29	35	24	15	9
1.00	1.00	9	9	9	4	3	4	4	4	3	9	4	3	3	4	6	8
1.00	1.25	10	10	11	16	14	10	10	11	14	19	16	15	14	16	12	11
1.00	1.50	11	12	17	22	25	12	12	14	26	29	23	26	25	22	20	13
1.00	1.75	12	14	22	29	36	14	14	18	36	39	30	36	36	30	23	16
1.25	1.00	13	11	6	6	4	11	11	10	4	8	5	4	4	5	8	10
1.25	1.25	14	15	18	18	15	10	15	15	16	18	17	16	15	18	17	14
1.25	1.50	15	17	23	28	27	17	17	22	27	28	28	27	27	28	24	20
1.25	1.75	16	21	28	33	37	21	21	26	37	37	35	37	37	34	31	25
1.50	1.00	17	13	10	7	5	13	13	12	5	5	6	5	5	7	9	12
1.50	1.25	18	18	21	19	16	19	19	20	17	16	19	17	16	19	21	19
1.50	1.50	20	24	27	30	28	24	24	27	29	26	29	28	28	29	28	27
1.50	1.75	21	28	33	38	38	28	28	31	38	35	38	38	38	38	34	32
1.75	1.00	19	16	13	9	6	16	16	13	6	4	7	6	6	8	11	15
1.75	1.25	22	22	24	20	17	20	20	24	18	14	20	18	17	20	22	24
1.75	1.50	24	29	31	31	29	29	29	30	30	23	31	30	29	31	32	30
1.75	1.75	26	34	36	39	39	33	33	36	39	33	39	39	39	39	30	36
2.00	1.00	23	19	14	10	7	18	18	16	7	2	9	7	7	9	13	17
2.00	1.25	27	27	25	23	18	27	27	25	19	12	21	19	18	21	25	26
2.00	1.50	29	32	34	32	30	32	32	33	31	21	32	31	30	32	33	34
2.00	1.75	32	37	40	40	40	37	37	38	40	31	40	40	40	40	40	37
2.25	1.00	25	20	15	12	8	20	20	17	8	1	10	9	8	11	14	18
2.25	1.25	30	30	26	24	19	30	30	28	20	11	22	20	19	23	26	28
2.25	1.50	35	36	35	34	31	36	36	35	32	20	33	32	31	33	35	35
2.25	1.75	36	40	41	41	41	40	40	40	41	30	41	41	41	41	41	41
2.50	1.00	28	23	18	13	9	22	22	19	9	3	11	10	9	12	16	21
2.50	1.25	34	31	29	25	20	31	31	29	21	13	24	21	20	25	27	29
2.50	1.50	38	38	37	35	32	38	38	37	33	22	34	33	32	35	36	37
2.50	1.75	40	42	42	42	42	42	42	42	42	32	42	42	42	42	42	42
2.75	1.00	31	25	19	14	10	25	25	21	10	6	13	11	10	13	17	22
2.75	1.25	37	33	30	26	21	34	34	32	22	15	25	22	21	26	29	31
2.75	1.50	41	39	38	36	33	39	39	39	34	25	36	34	33	36	37	38
2.75	1.75	43	43	43	43	43	43	43	43	43	34	43	43	43	43	43	43
3.00	1.00	33	26	20	15	11	26	26	23	11	7	14	12	11	14	18	23
3.00	1.25	39	35	32	27	22	35	35	34	23	17	27	24	22	27	30	33
3.00	1.50	42	41	39	37	34	41	41	41	35	27	37	35	34	37	39	40

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

Width.M	Height.M	< W I N D O W >															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	3	3	12	3	2	2	42	3	12	12	12	3	2	2
.50	1.50	3	3	5	8	23	8	4	24	43	6	15	23	23	3	3	3
.50	1.75	4	4	11	15	29	15	6	34	44	15	25	29	15	5	4	4
.75	1.00	5	5	2	2	2	2	3	3	10	2	2	2	2	4	5	5
.75	1.25	6	6	8	11	13	11	7	4	36	11	13	13	10	8	6	6
.75	1.50	7	7	17	18	24	18	9	25	38	17	24	24	18	13	7	7
.75	1.75	8	8	24	26	35	26	13	35	40	23	30	35	27	18	8	8
1.00	1.00	9	9	4	4	3	5	5	5	9	4	3	3	4	6	9	9
1.00	1.25	10	10	16	16	14	11	6	6	27	16	14	14	16	15	11	11
1.00	1.50	11	12	22	23	25	17	12	26	37	22	26	25	24	20	13	13
1.00	1.75	12	13	30	30	36	22	13	36	39	30	36	36	31	26	15	15
1.25	1.00	13	11	6	5	4	8	8	7	2	5	4	4	5	7	10	10
1.25	1.25	14	15	18	17	15	15	8	8	10	18	16	15	17	19	16	16
1.25	1.50	15	17	28	28	26	23	15	27	26	28	27	26	28	25	22	22
1.25	1.75	16	20	35	35	37	27	20	37	35	34	37	37	37	31	25	25
1.50	1.00	17	14	7	6	5	10	10	9	1	7	5	5	7	9	12	12
1.50	1.25	18	19	19	19	16	21	17	10	11	17	16	16	19	21	20	20
1.50	1.50	19	24	29	29	27	26	21	28	25	29	28	27	29	30	26	26
1.50	1.75	20	28	38	38	38	33	26	38	34	38	38	38	38	35	31	31
1.75	1.00	21	16	9	7	6	12	16	11	3	8	6	6	8	10	14	14
1.75	1.25	22	23	20	20	17	24	20	12	12	20	18	17	20	22	24	24
1.75	1.50	24	29	31	31	28	30	29	29	24	31	29	28	30	32	30	30
1.75	1.75	25	33	39	39	39	36	31	39	33	39	37	37	39	39	35	35
2.00	1.00	23	18	10	10	7	14	19	13	4	9	7	7	9	11	17	17
2.00	1.25	26	27	21	21	18	25	27	14	13	21	19	18	21	23	27	27
2.00	1.50	28	32	33	32	30	34	32	30	23	32	31	30	32	33	34	34
2.00	1.75	30	37	40	40	40	39	37	40	32	40	40	40	40	40	38	38
2.25	1.00	27	21	12	12	8	16	16	15	5	10	8	8	11	12	18	18
2.25	1.25	31	30	23	23	17	28	28	16	14	24	20	19	22	24	28	28
2.25	1.50	33	36	33	33	31	35	35	31	22	33	32	31	33	34	36	36
2.25	1.75	36	39	41	41	41	41	41	41	31	41	41	41	41	41	41	41
2.50	1.00	29	22	13	13	9	18	18	17	6	12	9	9	12	14	19	19
2.50	1.25	34	31	25	25	20	27	27	18	15	25	21	20	23	27	29	29
2.50	1.50	37	38	36	34	32	37	37	32	21	35	33	32	34	36	37	37
2.50	1.75	39	42	42	42	42	42	42	42	30	42	42	42	42	42	42	42
2.75	1.00	32	25	18	14	10	19	19	19	7	13	10	10	13	16	21	21
2.75	1.25	38	34	26	26	21	31	31	20	16	26	22	21	25	28	32	32
2.75	1.50	41	40	36	36	33	38	38	23	20	36	34	33	37	39	43	43
2.75	1.75	42	43	43	43	43	43	43	43	29	43	43	43	43	43	43	43
3.00	1.00	35	26	19	15	11	20	20	21	8	14	11	11	14	17	23	23
3.00	1.25	40	35	27	27	22	32	32	22	17	27	23	22	26	29	33	33
3.00	1.50	43	41	37	37	34	40	40	33	19	37	35	34	36	38	40	40
3.00	1.75	44	44	44	44	44	44	44	44	28	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

W I N D O W >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	37	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	3	2	2	2	38	4	9	12	3	2	2
.50	1.50	3	3	6	23	23	6	3	3	3	39	13	17	23	10	3	3
.50	1.75	4	4	14	34	34	15	4	12	4	40	15	25	34	15	4	4
.75	1.00	5	5	2	2	2	2	5	4	5	41	2	2	2	2	5	5
.75	1.25	6	6	11	13	13	9	6	8	6	42	14	13	13	7	7	6
.75	1.50	7	7	17	24	24	18	7	17	7	43	10	24	24	12	7	7
.75	1.75	8	8	22	35	35	27	0	17	0	44	27	32	35	19	8	8
1.00	1.00	9	9	4	3	3	4	9	5	9	9	3	3	3	4	6	9
1.00	1.25	10	10	16	14	14	16	10	16	10	17	16	14	14	16	13	10
1.00	1.50	11	11	23	25	25	25	11	20	11	32	26	26	25	25	22	12
1.00	1.75	12	13	30	36	36	31	13	25	12	36	30	36	36	30	29	14
1.25	1.00	13	12	5	4	4	5	12	6	13	8	5	4	4	5	8	11
1.25	1.25	14	14	10	15	15	17	14	18	14	10	17	15	15	17	10	15
1.25	1.50	15	16	24	28	28	28	16	23	15	25	20	27	26	28	28	21
1.25	1.75	16	19	34	37	37	36	19	30	16	35	36	37	37	35	32	25
1.50	1.00	17	15	7	5	5	7	15	7	17	1	6	5	5	6	9	13
1.50	1.25	18	18	19	16	16	19	18	21	18	10	19	16	16	19	20	20
1.50	1.50	19	23	29	27	27	29	21	28	19	26	29	28	27	29	30	27
1.50	1.75	20	28	34	38	38	38	25	34	20	34	38	38	38	36	36	32
1.75	1.00	21	17	8	6	6	8	17	9	21	2	7	6	6	7	10	16
1.75	1.25	22	22	20	17	17	20	22	22	22	13	20	18	17	20	21	24
1.75	1.50	23	29	31	31	31	30	28	32	23	24	31	29	28	31	31	31
1.75	1.75	24	33	37	39	39	39	31	36	24	33	39	39	39	39	39	35
2.00	1.00	25	20	14	9	9	10	20	10	25	3	8	7	7	8	11	17
2.00	1.25	26	27	25	21	21	21	26	24	26	11	21	19	18	21	23	26
2.00	1.50	28	33	33	32	32	33	33	33	27	19	32	30	29	32	33	34
2.00	1.75	29	37	40	40	40	37	37	39	28	28	40	40	40	40	40	38
2.25	1.00	27	21	15	10	10	11	23	11	29	4	9	8	8	9	14	18
2.25	1.25	31	30	26	24	24	26	30	26	30	12	22	20	19	22	24	28
2.25	1.50	32	36	35	33	33	35	35	35	31	20	33	31	30	33	34	36
2.25	1.75	35	40	41	41	41	39	39	41	32	27	41	41	41	41	41	41
2.50	1.00	30	24	17	12	12	12	24	13	33	5	10	10	9	11	15	19
2.50	1.25	34	31	27	25	25	23	32	27	34	14	23	21	20	23	25	29
2.50	1.50	37	38	36	35	35	34	38	37	35	21	34	33	31	34	35	37
2.50	1.75	39	42	42	42	42	42	42	42	36	29	42	42	42	42	42	42
2.75	1.00	33	25	18	13	13	13	27	14	37	6	11	11	10	12	16	22
2.75	1.25	38	20	26	26	26	24	34	27	38	15	24	22	21	24	26	30
2.75	1.50	41	39	38	36	36	35	40	38	39	22	35	34	32	36	37	39
2.75	1.75	42	43	43	43	43	43	43	43	40	30	43	43	43	43	43	43
3.00	1.00	36	26	20	15	15	14	29	15	41	7	12	12	11	13	17	23
3.00	1.25	40	30	27	22	22	26	36	31	42	16	25	23	22	26	27	33
3.00	1.50	43	41	37	33	33	37	41	40	43	23	37	35	33	37	38	40
3.00	1.75	44	44	44	44	44	44	44	44	44	31	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	1	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	-	-	2	2	2	2	2	2	2	10	2	2	2	2	2	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	3	-	-	-	3	9	-	3	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	4	-	-	-	4	8	-	4	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	-	5	5	-	5	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	6	4	-	6	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	-	-	-	7	2	-	7	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	-	8	1	-	8	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	9	3	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	10	6	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	11	7	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

WALL THICKNESS=0.12M

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

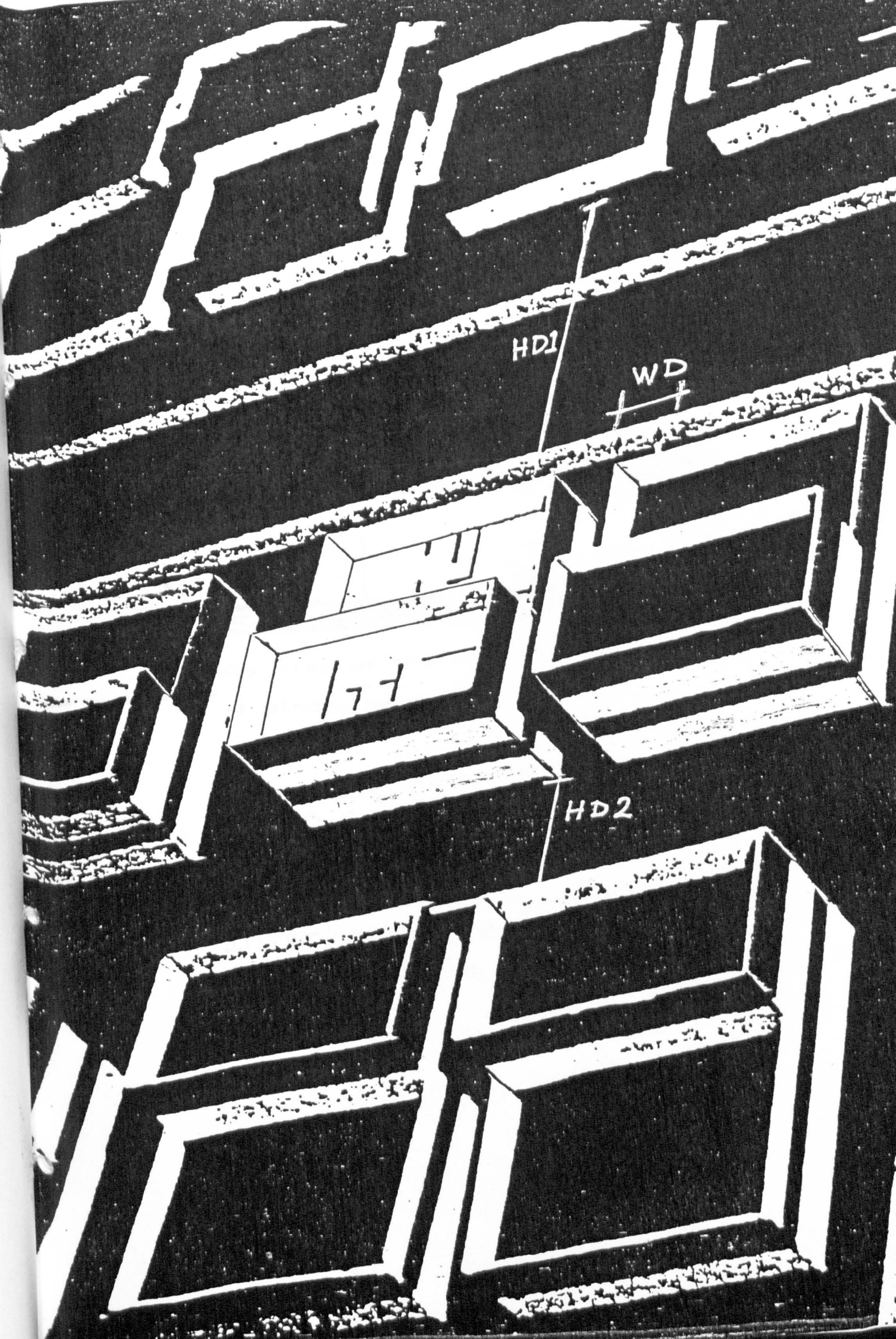
W I N D O W >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	2	2	2	2	2	2	2	2	2	3	2	2
.50	1.50	3	3	3	4	4	4	4	4	4	4	4	4	4	4	3	3
.50	1.75	4	4	4	5	5	5	5	5	5	5	5	5	5	5	4	4
.75	1.00	5	5	5	6	6	6	6	6	6	6	6	6	6	6	5	5
.75	1.25	6	6	6	7	7	7	7	7	7	7	7	7	7	7	6	6
.75	1.50	7	7	7	8	8	8	8	8	8	8	8	8	8	8	7	7
.75	1.75	8	8	8	9	9	9	9	9	9	9	9	9	9	9	8	8
1.00	1.00																
1.00	1.25																
1.00	1.50																
1.00	1.75																
1.25	1.00																
1.25	1.25																
1.25	1.50																
1.25	1.75																
1.50	1.00																
1.50	1.25																
1.50	1.50																
1.50	1.75																
1.75	1.00																
1.75	1.25																
1.75	1.50																
1.75	1.75																
2.00	1.00																
2.00	1.25																
2.00	1.50																
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2.50	1.25																
2.50	1.50																
2.50	1.75																
2.75	1.00																
2.75	1.25																
2.75	1.50																
2.75	1.75																
3.00	1.00																
3.00	1.25																
3.00	1.50																
3.00	1.75																

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER
WALL THICKNESS = 0.24M

< W I N D O W >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1
.50	1.25	2	2	2	3	-	-	-	2	2	-	4	-	-	3	2	2
.50	1.50	3	3	3	-	-	-	-	3	3	-	-	-	-	-	3	3
.50	1.75	4	4	4	-	-	-	-	4	4	-	-	-	-	-	4	4
.75	1.00	5	-	-	2	-	-	-	4	5	-	2	2	2	-	5	5
.75	1.25	6	-	-	-	-	-	-	8	6	-	-	-	-	-	6	6
.75	1.50	7	-	-	-	-	-	-	17	7	-	-	-	-	-	7	7
.75	1.75	8	-	-	-	-	-	-	19	8	-	-	-	-	-	-	8
1.00	1.00	9	-	-	-	3	-	-	5	9	-	3	3	3	-	-	-
1.00	1.25	10	-	-	-	-	-	-	16	10	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	20	11	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	4	-	-	6	13	-	-	4	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	10	14	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	7	17	1	-	5	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	21	18	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	9	21	2	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	22	22	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	23	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	24	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	-	-	10	25	3	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	26	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	27	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	28	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	11	29	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	30	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	31	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	32	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	9	-	-	13	33	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	34	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	35	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	36	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	-	-	14	37	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	38	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	39	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	11	-	-	-	40	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	15	41	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	42	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	43	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	44	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

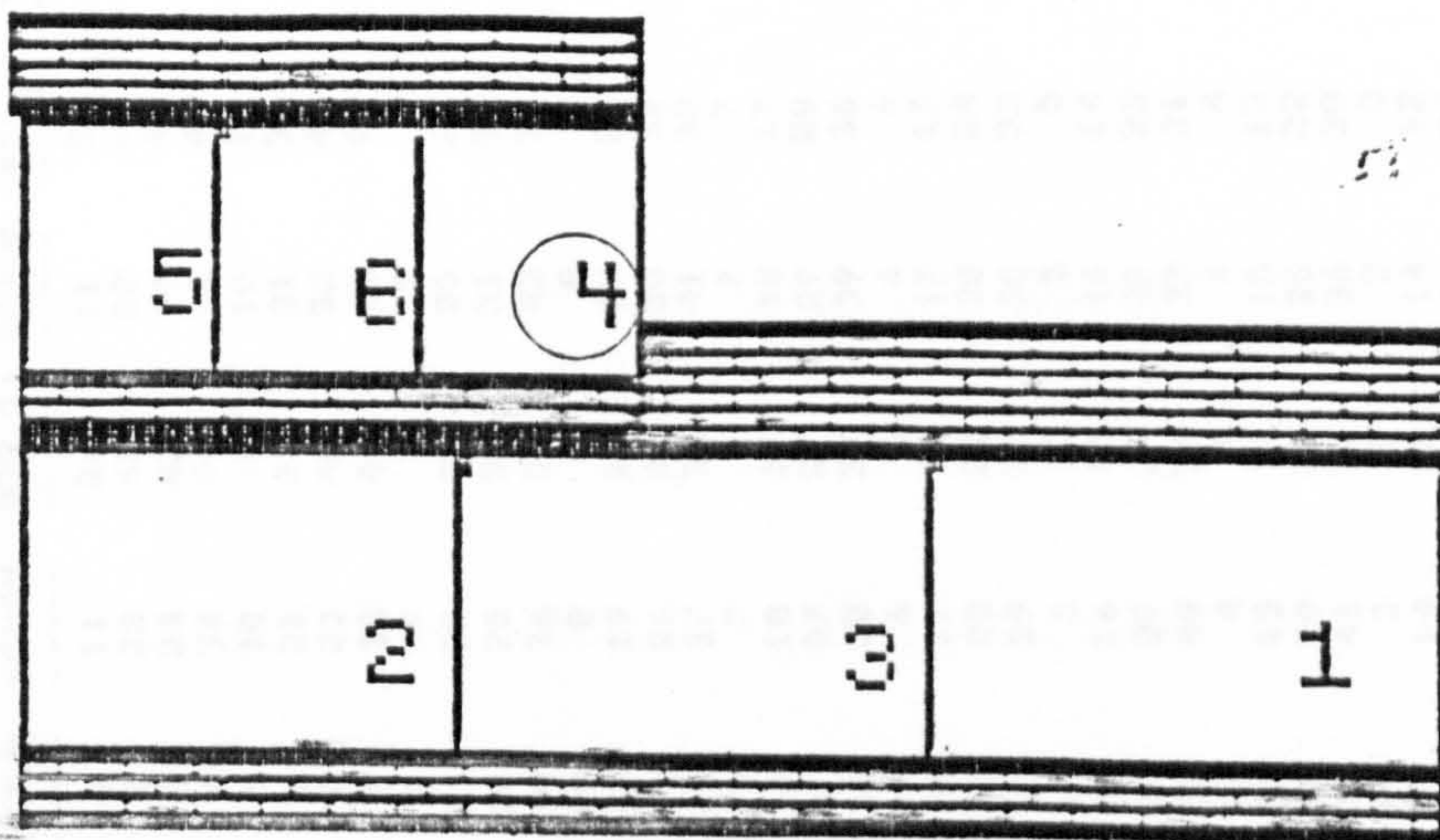


HD1

WD

177

HD2



Key diagram showing the location
of window data

Side Wall No. 2
1 1/2 Storey

Interhouse Distance
1, 2, 3 and 4m.

<-----<< < W I N D O W > ----->>----->

Width-M	Height-M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	41	1	1	1	1	44	44	44	31	43	1	1	1
.50	1.25	2	2	2	42	2	2	2	2	43	43	43	26	42	11	2	2
.50	1.50	3	3	3	43	3	3	3	3	42	42	42	42	30	13	3	3
.50	1.75	4	4	4	44	4	4	4	12	41	41	41	44	44	16	4	4
.75	1.00	5	5	5	40	5	5	5	4	40	40	40	20	31	2	5	5
.75	1.25	6	6	6	37	6	6	6	8	39	39	39	19	27	14	6	6
.75	1.50	7	7	7	38	7	7	7	17	38	38	38	33	27	20	7	7
.75	1.75	8	8	8	37	8	8	8	19	37	37	36	43	41	27	8	8
1.00	1.00	9	9	9	36	9	9	9	5	36	36	37	18	28	3	9	9
1.00	1.25	10	10	10	35	10	10	10	16	35	35	35	17	26	15	8	18
1.00	1.50	11	11	11	34	11	11	11	20	33	33	33	30	24	26	8	19
1.00	1.75	12	12	12	32	12	12	12	25	32	32	30	41	40	31	26	21
1.25	1.00	13	13	13	33	13	13	13	6	34	34	34	16	25	4	9	10
1.25	1.25	14	14	14	31	14	14	14	18	31	31	31	14	19	17	10	20
1.25	1.50	15	15	15	29	15	15	15	23	29	29	20	29	23	28	10	29
1.25	1.75	16	16	16	26	16	16	16	30	26	27	25	40	39	37	28	31
1.50	1.00	17	17	17	30	17	17	17	7	30	30	32	15	20	5	11	11
1.50	1.25	18	18	18	28	18	18	18	21	27	20	27	12	12	18	12	22
1.50	1.50	19	19	19	25	19	19	19	28	24	25	22	28	22	29	12	30
1.50	1.75	20	20	20	22	20	20	20	34	21	22	17	37	38	38	29	34
1.75	1.00	21	19	13	27	11	19	17	9	28	26	29	13	13	6	13	12
1.75	1.25	22	22	22	23	12	22	22	22	23	23	24	10	10	19	14	23
1.75	1.50	23	25	20	20	28	24	29	32	19	20	18	27	21	30	14	23
1.75	1.75	24	29	17	17	37	26	32	36	15	17	13	38	37	39	15	32
2.00	1.00	25	14	24	24	13	23	20	10	25	24	26	11	11	7	15	13
2.00	1.25	26	26	17	17	14	27	26	24	20	19	20	7	7	21	16	24
2.00	1.50	28	33	14	14	29	29	33	33	14	15	14	25	18	32	31	33
2.00	1.75	29	34	11	11	40	32	37	37	10	11	9	37	36	40	40	40
2.25	1.00	27	24	15	21	15	25	21	11	22	21	23	9	9	8	17	14
2.25	1.25	31	30	16	16	16	30	30	26	17	16	16	5	5	22	18	25
2.25	1.50	32	35	10	10	30	33	35	35	11	10	11	24	17	33	32	35
2.25	1.75	35	39	7	7	41	36	39	41	6	7	6	36	35	41	41	41
2.50	1.00	30	27	18	18	17	28	24	13	10	18	21	8	8	9	19	15
2.50	1.25	34	33	12	12	18	34	31	27	12	12	12	3	3	23	20	26
2.50	1.50	37	38	8	8	31	38	38	37	8	8	7	23	16	34	34	36
2.50	1.75	39	41	4	4	42	40	42	42	4	4	4	35	34	42	42	42
2.75	1.00	33	28	15	15	19	31	25	14	16	14	17	6	6	10	21	16
2.75	1.25	38	36	9	9	20	37	34	29	9	9	10	2	2	24	22	27
2.75	1.50	41	40	5	5	32	41	40	38	5	5	5	22	15	35	35	37
2.75	1.75	42	43	2	2	43	43	43	43	2	2	2	34	33	43	43	43
3.00	1.00	36	31	20	13	21	35	28	15	13	13	15	4	4	12	23	17
3.00	1.25	40	37	30	6	22	37	36	31	7	6	8	1	1	25	24	28
3.00	1.50	43	42	39	3	33	42	41	40	3	3	3	21	14	36	36	38
3.00	1.75	44	44	44	1	44	44	44	44	1	1	1	32	32	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< WINDOW >		<<----->>										----->>									
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5				
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
.75	1.00			10	2					10					2						
.75	1.25																				
.75	1.50																				
.75	1.75																				
1.00	1.00			9	3					9				9							
1.00	1.25																				
1.00	1.50																				
1.00	1.75																				
1.25	1.00			8	4					8				8							
1.25	1.25																				
1.25	1.50																				
1.25	1.75																				
1.50	1.00			7	5					7				7							
1.50	1.25																				
1.50	1.50																				
1.50	1.75																				
1.75	1.00			6						6				6							
1.75	1.25																				
1.75	1.50																				
1.75	1.75																				
2.00	1.00			5						5				5							
2.00	1.25																				
2.00	1.50																				
2.00	1.75																				
2.25	1.00			4						4				4							
2.25	1.25																				
2.25	1.50																				
2.25	1.75																				
2.50	1.00			3						3				3							
2.50	1.25																				
2.50	1.50																				
2.50	1.75																				
2.75	1.00			2						2				2							
2.75	1.25																				
2.75	1.50																				
2.75	1.75																				
3.00	1.00			1						1				1							
3.00	1.25																				
3.00	1.50																				

WALL THICKNESS=0.12M

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

< WINDOW >		O R I E N T A T I O N S											>>				
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00																
1.00	1.25																
1.00	1.50																
1.00	1.75																
1.25	1.00																
1.25	1.25																
1.25	1.50																
1.25	1.75																
1.50	1.00																
1.50	1.25																
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2.75	1.00																
2.75	1.25																
2.75	1.50																
2.75	1.75																
3.00	1.00																
3.00	1.25																
3.00	1.50																
3.00	1.75																

WALL THICKNESS = 0.24 M

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

Width.M		Height.M		NORTH		22.5		45.0		67.5		EAST		112.5		135.0		157.5		SOUTH		202.5		270.0		247.5		WEST		292.5		315.0		337.5					
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2					
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3					
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6			
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7			
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8			
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9			
1.00	1.25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
1.00	1.50	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
1.00	1.75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	
1.25	1.00																																						
1.25	1.25																																						
1.25	1.50																																						
1.25	1.75																																						
1.50	1.00																																						
1.50	1.25																																						
1.50	1.50																																						
1.50	1.75																																						
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1.75	1.25																																						
1.75	1.50																																						
1.75	1.75																																						
2.00	1.00																																						
2.00	1.25																																						
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2.75	1.00																																						
2.75	1.25																																						
2.75	1.50																																						
2.75	1.75																																						
3.00	1.00																																						
3.00	1.25																																						
3.00	1.50																																						
3.00	1.75																																						

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< W I N D O W > -----<< ----->>-----

Width-M	Height-M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	41	1	1	1	17	44	18	15	20	29	37	1	1
.50	1.25	2	2	2	42	2	2	2	15	43	17	41	36	41	38	2	2
.50	1.50	3	3	3	43	3	3	3	13	42	14	43	43	43	39	3	3
.50	1.75	4	4	4	44	4	4	4	12	41	13	44	44	44	40	4	4
.75	1.00	5	5	5	37	5	5	5	11	40	11	10	10	13	41	5	5
.75	1.25	6	6	6	38	6	6	6	3	39	4	31	21	28	42	7	6
.75	1.50	7	7	7	39	7	7	7	16	38	15	40	40	39	43	12	7
.75	1.75	8	8	8	40	8	8	8	21	36	23	42	42	42	44	19	8
1.00	1.00	9	9	9	31	9	9	9	7	37	10	9	9	9	36	6	9
1.00	1.25	10	10	10	24	10	10	10	14	35	12	23	19	23	35	13	10
1.00	1.50	11	11	11	35	11	11	11	20	33	20	36	34	34	34	22	12
1.00	1.75	12	12	12	36	12	12	12	26	30	29	39	41	40	33	29	14
1.25	1.00	13	13	9	20	8	11	12	4	34	6	8	8	8	32	8	11
1.25	1.25	14	14	16	29	16	14	14	10	31	16	19	18	18	31	10	15
1.25	1.50	15	15	24	32	23	20	16	23	28	24	34	29	27	30	28	21
1.25	1.75	16	17	31	33	31	25	19	31	25	32	38	39	38	20	32	25
1.50	1.00	17	16	10	10	10	12	15	1	32	1	7	7	7	29	9	13
1.50	1.25	18	18	21	24	21	10	18	19	27	19	18	17	17	27	20	20
1.50	1.50	19	20	29	28	27	26	23	28	23	30	29	28	26	25	30	27
1.50	1.75	20	23	34	30	35	31	27	34	20	36	37	38	37	22	36	32
1.75	1.00	21	19	13	6	12	15	17	2	29	2	6	6	6	26	10	16
1.75	1.25	22	22	17	17	22	22	22	22	24	21	17	15	16	23	21	24
1.75	1.50	23	25	32	25	32	29	29	32	10	31	26	27	25	20	31	24
1.75	1.75	24	29	37	27	38	35	32	37	14	39	35	37	36	17	39	35
2.00	1.00	25	21	14	5	14	17	20	5	26	3	5	5	5	24	11	17
2.00	1.25	26	26	25	13	25	27	26	24	21	22	16	15	15	19	23	26
2.00	1.50	28	33	33	22	33	33	33	33	15	33	25	26	24	14	33	34
2.00	1.75	29	40	40	26	40	38	37	39	10	40	33	35	35	11	40	38
2.25	1.00	27	24	15	4	15	19	21	6	22	5	4	4	4	21	14	10
2.25	1.25	31	30	26	11	26	28	30	25	16	25	14	14	14	15	24	28
2.25	1.50	33	35	35	18	34	36	35	35	11	34	24	25	22	10	34	36
2.25	1.75	36	39	41	23	41	41	39	41	6	41	32	33	33	7	41	41
2.50	1.00	30	27	17	3	17	21	24	8	19	7	3	3	3	18	15	19
2.50	1.25	34	33	27	9	28	30	31	27	12	26	13	13	12	12	25	29
2.50	1.50	37	38	36	15	36	37	38	36	8	35	22	24	21	8	35	37
2.50	1.75	39	41	42	21	42	42	42	42	4	42	30	32	32	4	42	42
2.75	1.00	32	28	18	2	19	22	25	9	17	8	2	2	2	16	16	22
2.75	1.25	38	36	28	8	29	32	34	29	9	27	12	12	11	7	26	30
2.75	1.50	41	40	38	14	37	39	40	38	5	37	21	23	20	5	37	39
2.75	1.75	42	43	43	19	43	43	43	43	2	43	28	31	31	2	43	43
3.00	1.00	35	31	20	1	20	24	28	10	13	9	1	1	1	13	17	23
3.00	1.25	40	37	30	7	30	34	36	30	7	28	11	11	10	6	27	33
3.00	1.50	43	42	39	12	39	40	41	40	3	38	20	22	19	3	38	40
3.00	1.75	44	44	44	16	44	44	44	44	1	44	27	30	30	1	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

Width.M	Height.M	W I N D O W >				<<-----				O R I E N T A T I O N S				----->>			
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	11	1	-	-	-	-	1	1	
.50	1.25	2	2	2	2	2	2	2	-	-	-	-	-	-	2	2	
.50	1.50	3	3	3	3	3	3	3	-	-	-	-	-	-	3	3	
.50	1.75	4	4	4	4	4	4	4	10	-	-	-	-	-	4	4	
.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
.75	1.75	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.25	1.00	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.25	1.75	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.75	1.00	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.00	1.00	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.25	1.00	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.25	1.50	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.50	1.00	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.75	1.00	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-	
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.00	1.00	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS=0.12M

< W I N D O W >		O R I E N T A T I O N S															
		<<				>>											
Width-M	Height-M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5															
.75	1.25	6															
.75	1.50	7															
.75	1.75	8															
1.00	1.00																
1.00	1.25																
1.00	1.50																
1.00	1.75																
1.25	1.00											8					
1.25	1.25												8				
1.25	1.50													8			
1.25	1.75														8		
1.50	1.00				11							7					
1.50	1.25												7				
1.50	1.50													7			
1.50	1.75														7		
1.75	1.00															6	
1.75	1.25																6
1.75	1.50																6
1.75	1.75																6
2.00	1.00																5
2.00	1.25																5
2.00	1.50																5
2.00	1.75																5
2.25	1.00																4
2.25	1.25																4
2.25	1.50																4
2.25	1.75																4
2.50	1.00																3
2.50	1.25																3
2.50	1.50																3
2.50	1.75																3
2.75	1.00																2
2.75	1.25																2
2.75	1.50																2
2.75	1.75																2
3.00	1.00																1
3.00	1.25																1
3.00	1.50																1
3.00	1.75																1

T A B L E S H O W I N G T H E T O P 2 0 % O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

<-----<< < WINDOW > ----->>----->

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	17	44	18	1	11	41	1	1	
.50	1.25	2	2	2	3	12	2	2	15	43	17	2	22	42	3	2	
.50	1.50	3	3	3	6	23	3	3	13	42	14	3	41	43	10	3	
.50	1.75	4	4	4	14	34	4	4	12	41	13	5	44	44	15	4	
.75	1.00	5	5	5	2	2	5	5	11	40	11	4	10	30	2	5	
.75	1.25	6	6	6	11	13	6	6	3	37	4	7	21	37	14	6	
.75	1.50	7	7	7	17	24	7	7	16	38	15	16	32	39	18	7	
.75	1.75	8	8	8	22	35	8	8	21	36	23	18	43	40	12	8	
1.00	1.00	9	9	9	4	3	9	9	7	37	10	6	9	15	7	9	
1.00	1.25	10	10	10	16	14	10	10	14	35	12	17	20	31	16	10	
1.00	1.50	11	11	12	23	25	11	11	20	33	20	27	31	35	19	11	
1.00	1.75	12	12	14	30	36	13	13	26	30	29	31	42	38	23	13	
1.25	1.00	13	13	11	5	4	11	12	4	34	6	8	8	10	9	12	
1.25	1.25	14	14	15	18	15	14	14	18	31	15	19	17	22	16	14	
1.25	1.50	15	15	17	28	26	16	16	23	28	24	28	30	33	24	16	
1.25	1.75	16	17	21	34	37	19	19	31	25	32	40	40	36	31	17	
1.50	1.00	17	16	13	7	5	12	15	1	32	1	9	7	7	6	15	
1.50	1.25	18	18	18	19	16	18	18	19	27	19	20	18	19	19	18	
1.50	1.50	19	20	24	29	27	23	23	28	23	30	36	29	28	29	23	
1.50	1.75	20	23	28	38	38	27	27	34	19	36	44	39	34	34	28	
1.75	1.00	21	19	16	8	6	17	17	2	29	2	10	6	6	7	17	
1.75	1.25	22	22	22	20	17	22	22	22	24	21	21	17	14	20	22	
1.75	1.50	23	25	30	31	28	29	29	32	18	31	35	28	24	31	29	
1.75	1.75	24	29	34	39	39	35	32	37	13	39	43	38	32	37	33	
2.00	1.00	25	21	19	9	7	20	20	5	26	3	11	5	5	8	20	
2.00	1.25	26	26	27	21	18	26	26	24	21	22	22	16	13	14	27	
2.00	1.50	28	32	32	32	29	33	33	33	15	33	34	27	21	25	27	
2.00	1.75	29	34	37	40	40	38	37	40	9	40	42	37	29	33	32	
2.25	1.00	27	24	20	10	8	19	21	6	22	5	12	4	4	15	21	
2.25	1.25	31	30	29	24	19	28	30	25	16	25	23	15	12	22	20	
2.25	1.50	32	35	36	33	30	36	35	35	11	34	33	26	20	26	20	
2.25	1.75	35	39	40	41	41	41	39	41	6	41	41	36	27	35	36	
2.50	1.00	30	27	23	12	9	21	24	8	20	7	13	3	3	17	24	
2.50	1.25	34	33	31	25	20	30	31	27	12	26	24	14	11	27	31	
2.50	1.50	37	38	38	35	31	37	38	36	8	35	32	25	18	34	38	
2.50	1.75	39	41	42	42	42	42	42	42	4	42	37	35	26	42	42	
2.75	1.00	33	28	25	13	10	22	25	9	17	8	14	2	2	18	25	
2.75	1.25	38	36	33	26	21	32	34	27	10	27	25	13	9	20	34	
2.75	1.50	41	40	39	36	32	39	40	38	5	37	30	24	17	38	39	
2.75	1.75	42	43	43	43	43	43	43	43	2	43	38	34	25	43	43	
3.00	1.00	36	31	26	15	11	24	28	10	14	9	15	1	1	20	26	
3.00	1.25	40	37	35	27	22	34	36	30	7	28	26	12	8	20	35	
3.00	1.50	43	42	41	37	33	40	41	39	3	38	29	23	16	39	41	
3.00	1.75	44	44	44	44	44	44	44	44	1	44	37	33	23	44	44	

T A B L E S H O W I N G E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

Width.M		Height.M		NORTH		22.5		45.0		67.5		EAST		112.5		135.0		157.5		SOUTH		202.5		270.0		247.5		WEST		292.5		315.0		337.5		
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	
.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS=0.12M

Width.M	Height.M	O R I E N T A T I O N S															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	4	4	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.25	6	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.50	7	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.75	8	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1.00	1.00	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1.00	1.25	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1.00	1.50	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1.00	1.75	8	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1.25	1.00	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1.25	1.25	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1.25	1.50	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1.25	1.75	8	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1.50	1.00	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1.50	1.25	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1.50	1.50	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1.50	1.75	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1.75	1.00	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1.75	1.25	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1.75	1.50	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1.75	1.75	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
2.00	1.00	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
2.00	1.25	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
2.00	1.50	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
2.00	1.75	8	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
2.25	1.00	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2.25	1.25	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2.25	1.50	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2.25	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
2.50	1.00	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
2.50	1.25	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
2.50	1.50	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
2.50	1.75	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
2.75	1.00	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2.75	1.25	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2.75	1.50	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
2.75	1.75	8	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
3.00	1.00	8	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
3.00	1.25	8	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
3.00	1.50	8	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
3.00	1.75	8	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

WINDOW		ORIENTATION															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	-	-	1	1	1
.50	1.25	2	2	3	3	2	2	2	-	-	-	-	-	-	3	2	2
.50	1.50	3	3	4	4	3	3	3	-	-	-	-	-	-	-	3	3
.50	1.75	4	4	4	4	4	4	4	-	-	-	-	-	-	-	4	4
.75	1.00	5	-	2	2	2	-	5	-	-	-	-	10	-	2	-	-
.75	1.25	6	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	-	3	-	-	-	-	-	-	9	-	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	4	-	-	-	-	-	-	8	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	5	-	-	1	-	-	-	7	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	-	-	-	-	-	-	5	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	-	-	-	-	4	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	9	-	-	-	-	-	-	3	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	-	-	-	-	-	-	2	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	11	-	-	-	2	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

<<-----<< < W I N D O W > ----->>>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	1	1	15	41	1	1	1
.50	1.25	2	2	2	12	12	2	2	2	12	3	2	34	42	2	2	2
.50	1.50	3	3	3	23	23	3	3	3	23	4	3	42	43	3	3	3
.50	1.75	4	4	4	26	27	4	4	4	27	7	4	44	44	4	4	4
.75	1.00	5	5	5	2	10	5	5	5	10	2	5	10	36	5	5	5
.75	1.25	6	6	6	13	13	6	6	6	13	6	6	25	38	6	6	6
.75	1.50	7	7	7	24	24	8	7	7	24	10	8	39	39	7	7	7
.75	1.75	8	8	8	35	35	9	8	8	35	16	11	43	40	8	8	8
1.00	1.00	9	9	9	3	9	7	9	9	9	5	7	9	27	9	9	9
1.00	1.25	10	10	10	14	14	11	10	11	14	13	10	20	33	10	10	10
1.00	1.50	11	11	11	25	25	13	12	13	25	20	16	35	35	11	11	11
1.00	1.75	12	12	12	36	36	15	14	15	36	25	22	41	37	12	12	12
1.25	1.00	13	13	13	4	11	10	11	9	8	8	9	8	19	8	11	11
1.25	1.25	14	14	14	15	15	15	15	16	15	17	15	17	28	16	15	15
1.25	1.50	15	15	15	27	27	20	17	23	26	24	23	29	32	23	17	17
1.25	1.75	16	16	16	37	37	25	21	26	37	32	28	40	34	28	21	21
1.50	1.00	17	17	17	5	12	12	13	12	7	9	12	7	11	7	10	13
1.50	1.25	18	18	18	16	19	19	19	21	16	21	21	18	23	19	21	18
1.50	1.50	20	20	20	30	30	26	24	27	28	28	26	28	29	27	24	24
1.50	1.75	21	21	21	38	38	30	28	32	38	35	33	38	31	30	28	28
1.75	1.00	19	17	16	9	14	14	16	13	6	11	13	6	7	9	13	16
1.75	1.25	22	22	23	20	24	23	23	24	17	22	24	17	16	20	24	22
1.75	1.50	24	27	29	31	31	29	29	30	29	31	31	27	25	31	31	29
1.75	1.75	26	34	37	37	39	35	33	36	39	37	36	37	30	36	34	34
2.00	1.00	23	20	17	10	7	17	18	14	5	12	14	5	5	10	14	19
2.00	1.25	27	26	27	23	23	27	27	25	10	23	25	16	13	25	25	27
2.00	1.50	29	32	32	32	30	33	32	33	30	33	34	26	22	34	34	32
2.00	1.75	32	36	37	40	40	38	37	38	40	39	37	36	26	40	40	37
2.25	1.00	25	23	20	12	8	10	20	17	4	14	17	4	4	12	15	20
2.25	1.25	30	30	30	24	19	28	30	28	19	26	27	14	10	24	26	30
2.25	1.50	35	36	36	34	31	36	36	35	31	34	35	24	18	34	35	36
2.25	1.75	36	40	40	41	41	41	40	40	41	41	41	33	24	41	41	40
2.50	1.00	28	22	22	13	9	21	22	18	3	15	18	3	3	13	18	23
2.50	1.25	34	31	31	25	20	31	31	29	20	27	29	13	9	25	27	31
2.50	1.50	38	38	38	35	32	37	38	37	32	36	37	23	15	35	37	38
2.50	1.75	40	42	42	42	42	42	42	42	42	42	42	32	21	42	42	42
2.75	1.00	31	28	14	14	10	22	25	20	2	17	19	2	2	14	19	25
2.75	1.25	37	34	26	26	21	32	34	31	21	29	30	12	8	30	30	33
2.75	1.50	41	40	36	36	33	39	39	39	33	38	38	22	14	38	38	37
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	31	20	43	43	43
3.00	1.00	33	26	15	11	11	24	25	22	1	18	20	1	1	15	20	26
3.00	1.25	39	37	27	22	22	34	35	34	22	30	32	11	6	27	32	35
3.00	1.50	42	42	37	34	34	40	41	41	34	40	40	21	12	37	39	41

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

WINDOW		ORIENTATION												RANK ORDER			
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	272.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	1	1	-	-	1	1	1
.50	1.25	2	2	2	2	2	2	2	-	-	2	2	-	-	2	2	2
.50	1.50	3	3	3	3	3	3	3	-	-	3	3	-	-	3	3	3
.50	1.75	4	4	4	4	4	4	4	-	-	4	4	-	-	4	4	4
.75	1.00	-	-	2	2	-	-	-	-	10	-	-	-	-	2	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	9	-	-	9	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	4	-	-	-	8	-	-	8	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	7	-	-	7	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	6	-	-	6	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	5	-	-	5	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	4	-	-	4	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	3	-	-	3	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	2	-	-	2	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	1	-	-	1	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

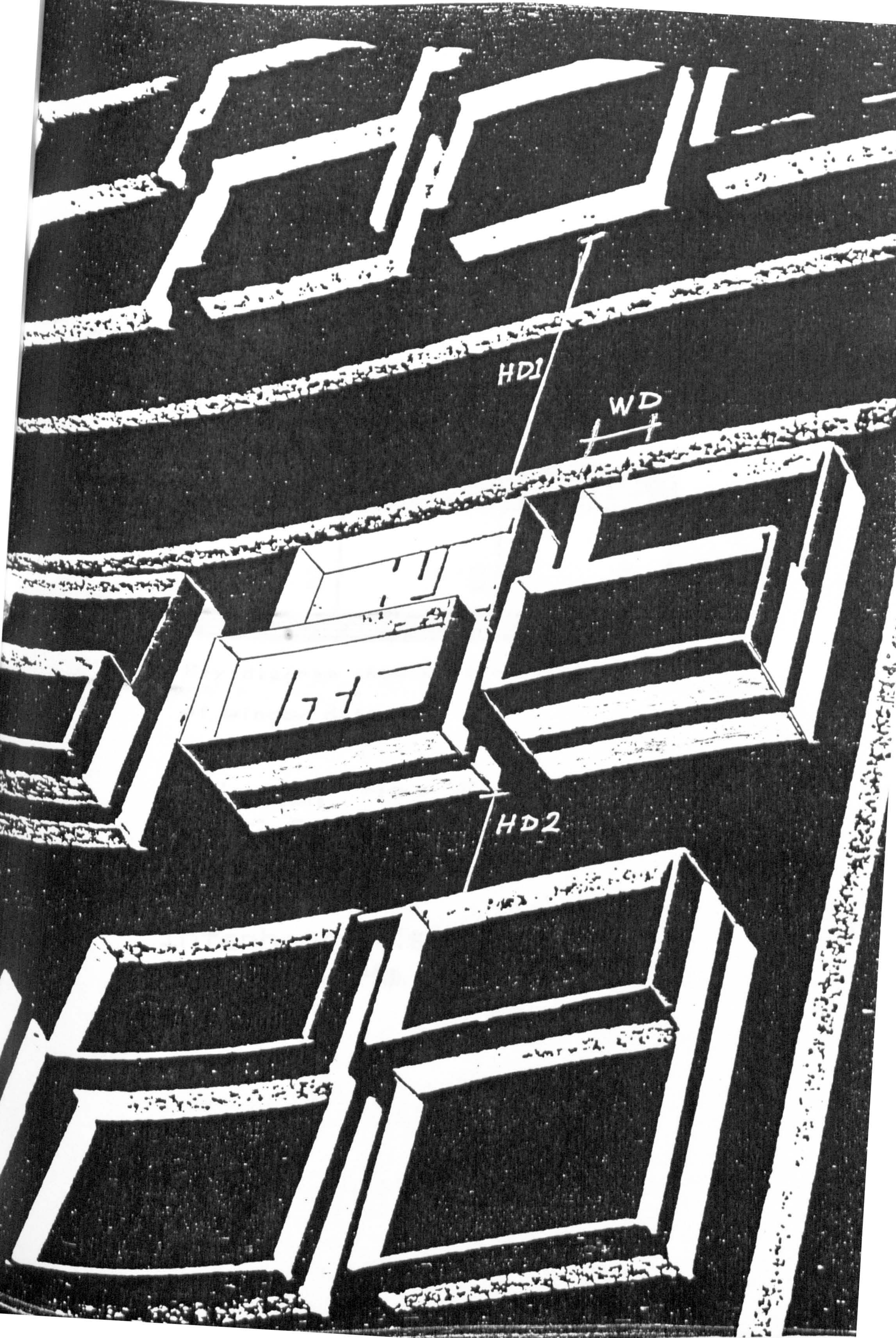
< WINDOW >		ORIENTATION											>>				
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	11	-	1	1	1
.50	1.25	2	2	2	3	-	2	2	-	-	-	-	-	-	3	2	2
.50	1.50	3	3	3	-	-	3	3	-	-	-	-	-	-	-	3	3
.50	1.75	4	4	4	-	-	4	4	-	-	-	-	-	-	-	4	4
.75	1.00	5	-	2	2	-	-	-	-	-	-	10	-	-	2	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	3	-	-	-	-	-	9	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	4	-	-	-	-	-	8	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	-	-	-	7	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	-	-	6	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	-	-	-	-	-	5	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	-	-	-	4	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	9	-	-	-	-	-	3	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	-	-	-	-	-	2	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	11	-	-	-	-	-	1	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE () SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER
 TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER
 WALL THICKNESS = 0.24 M

< WINDOW >		DIRECTION											>>				
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	1	-	1	1	1
.50	1.25	2	2	3	-	2	2	2	-	-	-	-	-	-	3	2	2
.50	1.50	3	3	-	-	3	3	3	-	-	-	-	-	-	-	3	3
.50	1.75	4	4	-	-	4	4	4	-	-	-	-	-	-	-	4	4
.75	1.00	5	-	2	-	2	-	5	-	-	-	10	-	-	2	-	-
.75	1.25	6	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	-	3	-	-	-	-	-	11	-	-	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	1	-	1	8	-	10	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	-	-	-	7	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	-	-	-	-	-	-	6	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	8	-	-	-	-	-	-	5	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	9	-	-	-	-	-	-	4	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	9	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	10	-	-	-	4	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	2	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	11	-	-	-	-	-	-	2	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	7	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M



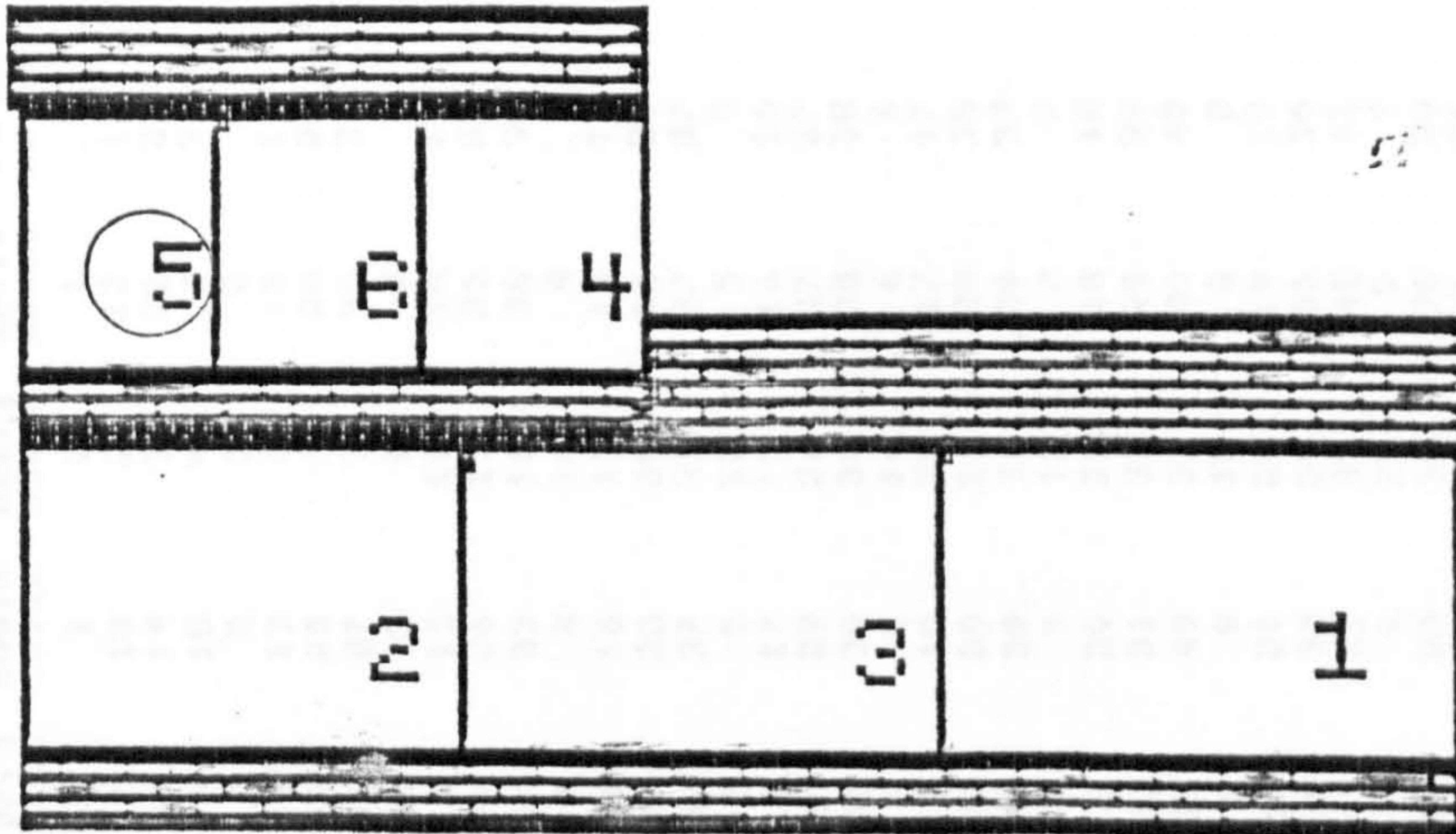
HD1

WD



177

HD2



Key diagram showing the location
of window data .

Side Wall No. 2
1 1/2 Storey

Interhouse Distance
1, 2, 3 and 4m.

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	37	34	1	36	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	30	42	12	42	12	12	12	2	12	12	12	3	2	2
.50	1.50	3	3	39	43	15	43	23	20	14	3	23	23	15	6	3	3
.50	1.75	4	4	40	44	25	44	34	25	18	4	34	34	15	4	4	4
.75	1.00	5	5	41	14	2	23	2	2	2	5	2	2	2	5	5	5
.75	1.25	6	6	42	36	13	35	13	13	13	6	13	13	10	6	6	6
.75	1.50	7	8	43	40	24	40	24	22	25	7	24	24	17	8	7	7
.75	1.75	8	10	44	41	30	41	35	32	27	9	35	35	24	9	8	8
1.00	1.00	9	7	33	9	3	14	3	3	3	8	3	3	4	7	9	9
1.00	1.25	10	11	34	25	14	31	14	14	15	11	14	14	14	11	10	10
1.00	1.50	11	16	35	37	26	37	25	24	26	13	25	25	26	13	13	12
1.00	1.75	12	22	36	39	36	39	36	34	33	16	36	36	36	30	16	13
1.25	1.00	13	9	28	8	4	10	4	4	4	10	4	4	4	5	10	11
1.25	1.25	14	15	30	19	16	27	15	15	16	15	15	15	16	10	15	15
1.25	1.50	15	24	31	32	27	33	26	27	28	20	26	26	27	20	20	17
1.25	1.75	17	30	32	39	37	38	37	35	37	25	37	37	37	34	25	21
1.50	1.00	16	12	22	7	5	7	5	5	5	12	5	5	5	7	12	14
1.50	1.25	19	20	26	17	17	19	16	16	17	17	16	16	17	17	17	10
1.50	1.50	21	27	27	28	28	30	27	28	29	26	27	27	28	29	26	24
1.50	1.75	24	34	29	35	38	34	38	36	38	30	38	38	38	38	30	28
1.75	1.00	18	13	14	6	6	6	6	6	6	14	6	6	6	8	14	16
1.75	1.25	23	23	21	16	18	16	17	17	17	23	17	17	18	20	23	22
1.75	1.50	28	32	24	24	29	26	28	29	30	29	28	28	29	31	29	29
1.75	1.75	30	38	25	33	39	32	39	37	39	34	37	39	39	35	35	34
2.00	1.00	20	14	7	5	7	5	7	7	7	17	7	7	7	9	17	19
2.00	1.25	27	25	16	15	19	13	18	18	20	27	18	18	19	21	27	26
2.00	1.50	32	33	20	23	31	22	29	30	31	32	29	29	31	32	33	32
2.00	1.75	35	40	23	31	40	29	40	39	40	37	40	40	40	40	38	37
2.25	1.00	22	17	4	4	0	4	8	8	8	18	8	8	8	11	18	20
2.25	1.25	31	26	11	13	20	12	19	19	21	28	19	19	20	23	28	30
2.25	1.50	36	35	17	22	32	20	30	31	32	35	30	30	32	33	36	36
2.25	1.75	39	41	19	30	41	28	41	40	41	39	41	41	41	41	41	40
2.50	1.00	25	18	3	3	9	3	9	9	9	21	9	9	9	12	21	23
2.50	1.25	33	28	8	12	21	11	20	21	22	31	20	20	21	25	31	31
2.50	1.50	38	36	13	21	33	18	31	33	34	38	31	31	33	35	37	38
2.50	1.75	41	42	18	29	42	25	42	42	42	42	42	42	42	42	42	42
2.75	1.00	26	19	2	2	10	2	10	10	10	22	10	10	10	13	22	25
2.75	1.25	34	29	6	11	22	9	21	23	23	33	21	21	22	26	32	33
2.75	1.50	40	37	10	20	34	17	32	38	35	40	32	32	34	36	39	39
2.75	1.75	43	43	15	27	43	24	43	43	43	43	43	43	43	43	43	43
3.00	1.00	29	21	1	1	11	1	11	11	11	24	11	11	11	14	24	27
3.00	1.25	37	31	5	10	23	9	22	26	24	36	22	22	23	27	34	35
3.00	1.50	42	39	9	18	35	15	33	41	36	41	33	33	35	37	34	35
3.00	1.75	44	42	11	18	35	15	33	41	36	41	33	33	35	37	34	35

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

W I N D O W		O R I E N T A T I O N S															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	25	41	1	17	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	26	42	12	41	12	12	2	4	12	12	12	3	2	2
.50	1.50	3	3	27	43	23	43	23	23	3	6	3	23	23	6	3	3
.50	1.75	4	4	28	44	26	44	34	34	34	11	4	34	26	15	4	4
.75	1.00	5	5	29	39	2	10	2	2	4	2	5	2	2	2	5	5
.75	1.25	6	6	30	37	17	20	13	13	5	5	6	13	13	10	6	6
.75	1.50	7	7	31	35	24	39	24	24	6	8	7	24	24	18	8	7
.75	1.75	8	9	32	40	35	42	35	35	35	12	8	35	35	27	9	8
1.00	1.00	9	8	33	27	3	9	3	3	7	3	9	3	3	4	7	9
1.00	1.25	10	13	34	24	14	20	14	14	9	9	10	14	14	16	11	10
1.00	1.50	11	19	35	26	25	36	25	25	9	13	11	25	25	24	13	12
1.00	1.75	12	21	36	38	36	40	36	36	36	19	12	36	36	31	16	13
1.25	1.00	13	10	37	18	4	8	4	4	10	7	13	4	4	5	10	11
1.25	1.25	14	20	38	15	15	19	15	15	11	14	14	15	15	17	15	15
1.25	1.50	15	23	39	25	27	31	26	26	12	18	15	26	27	28	21	17
1.25	1.75	16	27	40	36	37	38	37	37	37	26	16	37	37	37	25	20
1.50	1.00	17	11	41	14	5	7	5	5	13	10	17	5	5	7	12	14
1.50	1.25	18	22	42	12	16	18	16	16	14	17	18	16	16	19	19	18
1.50	1.50	20	28	43	23	20	27	27	27	15	25	19	27	28	29	26	24
1.50	1.75	21	33	44	34	38	37	38	38	30	30	20	38	38	38	31	28
1.75	1.00	19	12	15	13	6	6	6	6	16	15	21	6	6	8	14	16
1.75	1.25	23	24	22	10	17	16	17	17	17	24	22	17	17	20	24	23
1.75	1.50	24	32	23	22	29	26	28	28	18	29	23	28	29	30	29	29
1.75	1.75	27	36	24	33	39	35	39	39	39	35	24	39	39	39	35	32
2.00	1.00	22	14	6	11	7	5	7	7	19	16	25	7	7	9	17	19
2.00	1.25	26	25	18	8	18	15	18	18	20	27	26	18	18	21	27	27
2.00	1.50	30	34	20	21	30	25	29	29	21	33	27	29	30	32	33	33
2.00	1.75	33	40	21	32	40	34	40	40	40	38	28	40	40	40	38	37
2.25	1.00	25	15	4	9	8	4	8	6	22	20	29	8	8	11	18	21
2.25	1.25	31	26	11	5	19	14	19	19	23	28	30	17	17	22	28	30
2.25	1.50	35	35	17	20	31	24	30	30	24	36	31	30	31	33	36	36
2.25	1.75	37	41	19	31	41	33	41	41	41	41	32	41	41	41	41	39
2.50	1.00	28	16	3	7	9	3	9	9	25	21	33	9	9	12	20	22
2.50	1.25	34	29	8	3	20	13	20	20	34	31	34	20	20	23	30	31
2.50	1.50	38	37	13	19	32	23	31	31	27	37	35	31	32	34	37	38
2.50	1.75	41	42	16	30	42	32	42	42	42	42	36	42	42	42	42	42
2.75	1.00	29	17	2	6	10	2	10	10	28	22	37	10	10	13	22	25
2.75	1.25	36	30	7	2	21	12	21	21	29	32	38	21	21	25	32	34
2.75	1.50	40	38	10	17	33	22	32	32	30	39	39	32	33	35	39	40
2.75	1.75	43	43	14	29	43	30	43	43	43	43	40	43	43	43	43	43
3.00	1.00	32	18	1	4	11	1	11	11	31	23	41	11	11	14	23	26
3.00	1.25	39	31	5	1	22	11	22	22	32	34	42	22	22	26	34	35
3.00	1.50	42	39	9	16	34	21	33	33	33	40	43	33	34	36	40	41
3.00	1.75	44	44	12	28	44	27	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

Width.M	Height.M	W I N D O W >															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	13	37	1	42	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	14	38	2	40	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	15	39	23	43	3	3	3	3	23	23	10	3	3	3
.50	1.75	4	4	16	40	34	44	34	4	4	4	34	34	15	4	4	4
.75	1.00	5	5	17	41	3	20	4	5	5	5	3	3	2	5	5	5
.75	1.25	6	6	18	42	4	17	5	6	6	6	4	4	14	6	6	6
.75	1.50	7	7	19	43	24	36	6	7	7	7	24	24	18	7	7	7
.75	1.75	8	8	20	44	35	41	35	8	8	8	35	35	27	8	8	8
1.00	1.00	9	9	21	36	5	18	7	9	9	9	7	5	4	9	9	9
1.00	1.25	10	10	22	35	6	17	8	10	10	10	8	6	16	10	10	10
1.00	1.50	11	11	23	34	25	29	9	11	11	11	9	25	25	12	11	11
1.00	1.75	12	12	24	33	36	37	36	12	12	12	23	36	30	16	12	12
1.25	1.00	13	13	25	32	7	16	10	13	13	13	10	7	5	11	13	13
1.25	1.25	14	14	26	31	8	14	11	14	14	14	11	8	17	14	14	14
1.25	1.50	15	15	27	30	26	28	12	15	15	15	12	26	28	20	15	15
1.25	1.75	16	16	28	28	37	30	37	16	16	16	16	37	35	25	16	16
1.50	1.00	17	17	29	29	9	15	13	17	17	17	13	9	6	13	15	15
1.50	1.25	18	18	30	27	10	12	14	18	18	18	14	10	19	10	15	15
1.50	1.50	19	19	31	25	27	27	15	19	19	19	15	27	29	26	19	19
1.50	1.75	20	20	32	22	38	27	38	20	20	20	20	38	38	31	25	25
1.75	1.00	21	21	33	26	11	13	16	21	21	21	16	11	7	15	17	17
1.75	1.25	22	22	34	23	12	9	17	22	22	22	17	12	20	23	22	22
1.75	1.50	23	23	35	20	28	26	18	23	23	23	18	28	31	29	22	22
1.75	1.75	24	24	36	17	39	35	39	24	24	24	24	39	39	35	22	22
2.00	1.00	25	25	37	14	13	11	19	25	25	25	19	13	8	17	20	20
2.00	1.25	26	26	38	17	14	7	20	26	26	26	20	14	21	27	26	26
2.00	1.50	27	27	39	14	29	25	21	27	27	27	21	29	32	34	33	33
2.00	1.75	28	28	40	11	40	34	40	28	28	28	40	40	40	38	37	37
2.25	1.00	29	29	41	21	15	10	22	29	29	29	22	15	9	19	23	23
2.25	1.25	30	30	42	15	16	5	23	30	30	30	16	16	22	28	30	30
2.25	1.50	31	31	43	10	30	24	24	31	31	31	24	30	33	36	36	36
2.25	1.75	32	32	44	7	41	33	41	32	32	32	41	41	41	41	39	39
2.50	1.00	33	33	6	18	17	0	25	33	33	33	17	17	11	21	24	24
2.50	1.25	34	34	5	12	18	3	26	34	34	34	18	18	23	30	31	31
2.50	1.50	35	35	11	8	31	23	27	35	35	35	23	31	34	37	38	38
2.50	1.75	36	36	12	4	42	32	42	36	36	36	42	42	42	42	42	42
2.75	1.00	37	37	4	16	19	6	28	37	37	37	19	19	12	22	27	27
2.75	1.25	38	38	3	9	20	2	29	38	38	38	20	20	24	32	34	34
2.75	1.50	39	39	8	5	32	22	30	39	39	39	22	32	36	39	40	40
2.75	1.75	40	40	10	2	43	31	43	40	40	40	31	43	43	43	43	43
3.00	1.00	41	41	2	13	21	4	31	41	41	41	4	21	13	24	28	28
3.00	1.25	42	42	1	6	22	1	32	42	42	42	1	22	26	33	35	35
3.00	1.50	43	43	7	3	33	21	33	43	43	43	21	33	37	40	41	41
3.00	1.75	44	44	9	1	44	30	44	44	44	44	30	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< W I N D O W >		O R I E N T A T I O N S											
		N O T H		E A S T		S O U T H		W E S T		S O U T H		W E S T	
Width.M	Height.M	22.5	45.0	67.5	112.5	135.0	157.5	202.5	270.0	247.5	315.0	337.5	
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	1	1	1	1	2	1	1	2	2	2
.50	1.50	3	3	1	1	1	1	3	1	1	3	3	3
.50	1.75	4	4	1	1	1	1	4	1	1	4	4	4
.75	1.00	1	1	2	2	2	2	5	2	2	2	2	2
.75	1.25	1	1	1	1	1	1	1	1	1	1	1	1
.75	1.50	1	1	1	1	1	1	1	1	1	1	1	1
.75	1.75	1	1	1	1	1	1	1	1	1	1	1	1
1.00	1.00	1	1	3	3	3	3	1	3	3	3	3	3
1.00	1.25	1	1	1	1	1	1	1	1	1	1	1	1
1.00	1.50	1	1	1	1	1	1	1	1	1	1	1	1
1.00	1.75	1	1	1	1	1	1	1	1	1	1	1	1
1.25	1.00	1	1	4	4	4	4	1	4	4	4	4	4
1.25	1.25	1	1	1	1	1	1	1	1	1	1	1	1
1.25	1.50	1	1	1	1	1	1	1	1	1	1	1	1
1.25	1.75	1	1	1	1	1	1	1	1	1	1	1	1
1.50	1.00	1	1	7	7	7	7	1	7	7	7	7	7
1.50	1.25	1	1	1	1	1	1	1	1	1	1	1	1
1.50	1.50	1	1	1	1	1	1	1	1	1	1	1	1
1.50	1.75	1	1	1	1	1	1	1	1	1	1	1	1
1.75	1.00	1	1	6	6	6	6	1	6	6	6	6	6
1.75	1.25	1	1	1	1	1	1	1	1	1	1	1	1
1.75	1.50	1	1	1	1	1	1	1	1	1	1	1	1
1.75	1.75	1	1	1	1	1	1	1	1	1	1	1	1
2.00	1.00	1	1	5	5	5	5	1	5	5	5	5	5
2.00	1.25	1	1	1	1	1	1	1	1	1	1	1	1
2.00	1.50	1	1	1	1	1	1	1	1	1	1	1	1
2.00	1.75	1	1	1	1	1	1	1	1	1	1	1	1
2.25	1.00	1	1	4	4	4	4	1	4	4	4	4	4
2.25	1.25	1	1	1	1	1	1	1	1	1	1	1	1
2.25	1.50	1	1	1	1	1	1	1	1	1	1	1	1
2.25	1.75	1	1	1	1	1	1	1	1	1	1	1	1
2.50	1.00	1	1	3	3	3	3	1	3	3	3	3	3
2.50	1.25	1	1	1	1	1	1	1	1	1	1	1	1
2.50	1.50	1	1	1	1	1	1	1	1	1	1	1	1
2.50	1.75	1	1	1	1	1	1	1	1	1	1	1	1
2.75	1.00	1	1	2	2	2	2	1	2	2	2	2	2
2.75	1.25	1	1	1	1	1	1	1	1	1	1	1	1
2.75	1.50	1	1	1	1	1	1	1	1	1	1	1	1
2.75	1.75	1	1	1	1	1	1	1	1	1	1	1	1
3.00	1.00	1	1	1	1	1	1	1	1	1	1	1	1
3.00	1.25	1	1	1	1	1	1	1	1	1	1	1	1
3.00	1.50	1	1	1	1	1	1	1	1	1	1	1	1

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

< WINDOW > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	41	41	36	37	1	1	1	1	1	1	1	1	
.50	1.25	2	2	2	42	42	42	42	2	12	2	1	2	12	3	2	
.50	1.50	3	3	3	43	43	43	43	3	23	4	3	4	16	3	3	
.50	1.75	4	4	4	44	44	44	44	4	26	7	4	5	25	4	4	
.75	1.00	5	5	4	36	31	17	16	5	2	9	5	3	2	5	5	
.75	1.25	6	6	7	38	37	34	34	6	13	6	6	7	13	6	6	
.75	1.50	7	7	10	39	39	40	40	8	24	10	8	10	24	8	7	
.75	1.75	8	9	15	40	40	41	41	10	35	15	11	16	32	7	8	
1.00	1.00	9	8	6	31	17	11	9	7	3	5	7	6	3	7	9	
1.00	1.25	10	11	12	34	32	27	24	11	14	12	10	12	14	11	10	
1.00	1.50	11	13	20	35	36	37	36	15	25	20	16	20	26	13	12	
1.00	1.75	12	16	23	37	38	39	37	17	36	24	22	25	36	16	13	
1.25	1.00	13	10	8	22	10	8	8	9	4	8	9	8	4	10	11	
1.25	1.25	14	14	17	29	24	22	19	16	15	19	15	18	15	15	15	
1.25	1.50	15	20	24	32	33	32	32	23	27	25	23	28	27	20	17	
1.25	1.75	16	25	31	33	35	38	38	26	37	31	28	34	37	25	20	
1.50	1.00	17	12	9	12	7	7	7	12	5	9	12	9	5	7	14	
1.50	1.25	18	19	21	24	19	16	17	21	16	21	21	21	17	17	18	
1.50	1.50	20	26	28	28	29	29	28	27	28	30	26	28	28	26	24	
1.50	1.75	21	30	34	30	34	35	35	31	38	35	33	34	38	30	28	
1.75	1.00	19	15	11	8	6	6	6	13	6	11	13	11	6	14	16	
1.75	1.25	23	24	22	17	14	15	15	24	17	22	24	22	18	23	22	
1.75	1.50	25	29	32	25	26	24	25	30	29	32	31	32	29	29	29	
1.75	1.75	27	35	37	27	30	33	33	36	39	39	36	38	39	35	33	
2.00	1.00	22	17	13	5	5	5	5	14	7	13	14	13	7	17	19	
2.00	1.25	26	27	25	14	13	14	14	25	18	23	25	24	19	27	27	
2.00	1.50	30	33	33	21	21	23	23	33	30	33	34	33	30	33	32	
2.00	1.75	33	38	40	26	28	31	31	38	40	40	39	40	40	38	37	
2.25	1.00	24	18	14	4	4	4	4	17	8	14	17	14	8	18	21	
2.25	1.25	31	28	26	10	12	13	13	28	19	26	27	26	20	28	30	
2.25	1.50	35	36	35	18	20	21	22	35	31	34	35	35	31	36	36	
2.25	1.75	37	40	41	23	27	30	30	40	41	41	41	41	41	41	39	
2.50	1.00	28	21	16	3	3	3	3	18	9	16	18	15	9	21	23	
2.50	1.25	34	31	27	9	11	12	12	27	20	27	29	27	21	31	31	
2.50	1.50	38	37	36	15	18	20	21	37	32	36	37	36	33	37	38	
2.50	1.75	41	42	42	20	25	28	29	42	42	42	42	42	42	42	42	
2.75	1.00	29	22	17	2	2	2	2	20	10	17	19	17	10	22	25	
2.75	1.25	36	32	29	7	7	10	11	32	21	28	30	27	22	32	34	
2.75	1.50	40	39	38	13	16	19	20	39	33	37	38	37	34	39	40	
2.75	1.75	43	43	43	17	23	26	27	43	43	43	43	43	43	43	43	
3.00	1.00	32	23	18	1	1	1	1	22	11	18	20	19	11	24	26	
3.00	1.25	39	34	30	5	8	9	10	34	22	29	32	30	23	34	35	
3.00	1.50	42	41	39	11	15	18	18	41	34	38	40	39	27	40	41	

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	41	40	19	17	1	33	1	1	1	1	1	1	1
.50	1.25	2	2	2	42	42	41	39	3	31	2	2	2	12	3	2	2
.50	1.50	3	3	3	43	43	40	43	5	32	4	3	4	23	5	3	3
.50	1.75	4	4	4	44	44	44	44	8	44	8	4	5	26	11	4	4
.75	1.00	5	5	4	37	22	10	10	2	26	3	5	3	2	5	5	5
.75	1.25	6	6	8	30	37	30	32	5	19	7	6	7	13	8	6	6
.75	1.50	7	7	13	39	39	39	40	10	30	11	8	11	24	17	8	7
.75	1.75	8	8	18	40	41	42	42	14	43	19	10	17	35	24	9	8
1.00	1.00	9	9	6	30	11	9	9	4	18	5	7	6	3	4	7	9
1.00	1.25	10	11	15	34	31	22	26	11	17	13	11	12	14	16	11	10
1.00	1.50	11	13	20	35	36	36	37	18	29	21	14	20	25	22	13	12
1.00	1.75	12	15	26	36	38	40	41	23	42	26	19	25	36	30	16	13
1.25	1.00	13	10	22	22	8	8	8	7	16	6	9	8	4	6	10	11
1.25	1.25	14	16	27	27	21	18	20	16	14	18	16	19	15	18	15	15
1.25	1.50	15	22	32	32	33	32	34	22	20	23	23	24	27	28	21	17
1.25	1.75	16	25	31	33	35	38	38	27	41	31	26	31	37	35	25	20
1.50	1.00	17	12	14	14	7	7	7	9	15	9	12	9	5	7	12	14
1.50	1.25	18	20	23	23	16	17	10	21	12	20	21	21	16	19	19	19
1.50	1.50	19	26	28	28	29	27	29	26	27	27	27	29	28	29	26	24
1.50	1.75	20	31	31	31	34	37	36	33	40	34	32	34	38	31	31	28
1.75	1.00	21	14	9	9	6	6	6	12	13	10	13	10	6	9	14	16
1.75	1.25	22	24	18	18	15	16	16	24	10	22	24	22	17	20	24	23
1.75	1.50	24	30	25	25	25	26	25	31	25	32	30	32	29	31	29	29
1.75	1.75	25	35	29	29	32	35	35	36	39	38	36	38	39	35	35	33
2.00	1.00	23	17	11	6	5	5	5	13	11	12	15	13	7	10	17	18
2.00	1.25	27	27	23	13	14	15	15	25	7	24	25	23	18	21	27	27
2.00	1.50	28	34	20	20	23	24	24	34	24	33	34	33	30	32	33	32
2.00	1.75	31	30	26	26	30	34	33	40	38	40	38	40	40	38	38	37
2.25	1.00	26	18	4	4	4	4	4	15	9	14	17	14	8	12	18	21
2.25	1.25	30	28	10	10	13	14	14	28	5	25	28	26	19	23	28	30
2.25	1.50	33	36	16	16	20	24	23	35	23	35	35	35	31	33	36	36
2.25	1.75	36	41	24	24	28	33	31	41	37	41	41	41	41	41	41	39
2.50	1.00	29	19	3	3	3	3	3	17	8	15	18	15	9	13	20	22
2.50	1.25	34	29	27	8	12	13	13	27	3	28	29	27	20	25	30	31
2.50	1.50	38	37	15	15	19	23	22	37	22	36	37	36	32	34	37	38
2.50	1.75	40	42	21	21	27	31	30	42	36	42	42	42	42	42	42	42
2.75	1.00	32	21	2	2	2	2	2	19	6	16	20	16	10	14	22	25
2.75	1.25	37	32	7	7	10	12	12	30	2	29	31	28	21	26	32	34
2.75	1.50	41	39	12	12	18	21	21	38	21	37	39	37	33	36	39	40
2.75	1.75	42	43	19	19	26	29	28	43	35	43	43	43	43	43	43	43
3.00	1.00	35	23	1	1	1	1	1	20	4	17	22	18	11	15	23	26
3.00	1.25	39	33	5	5	9	11	11	32	1	30	33	30	22	27	34	35
3.00	1.50	43	40	11	11	17	20	19	39	20	39	40	39	34	37	40	41
3.00	1.75	44	44	17	17	24	28	27	44	34	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	37	41	20	5	18	44	17	1	1	1	1	1	1
.50	1.25	2	2	2	38	42	36	20	16	43	14	2	2	12	3	2	2
.50	1.50	3	3	3	39	43	43	39	14	42	13	3	3	23	6	3	3
.50	1.75	4	4	4	40	44	44	44	13	41	11	4	4	34	14	4	4
.75	1.00	5	5	5	41	26	10	11	11	40	12	5	5	2	2	5	5
.75	1.25	6	6	7	42	37	21	22	3	39	2	6	6	13	11	6	6
.75	1.50	7	7	12	43	38	40	38	15	37	16	8	7	24	17	7	7
.75	1.75	8	8	19	44	40	42	43	21	36	19	10	16	35	22	9	8
1.00	1.00	9	9	6	33	13	9	10	7	38	8	7	6	3	4	8	9
1.00	1.25	10	10	13	34	30	17	21	12	35	15	11	11	14	16	10	10
1.00	1.50	11	12	22	35	35	34	33	20	33	21	15	20	25	23	12	11
1.00	1.75	12	14	29	36	38	41	42	26	30	27	20	25	36	30	16	13
1.25	1.00	13	11	8	20	8	8	9	5	34	5	9	8	4	5	11	12
1.25	1.25	14	15	18	30	22	18	19	17	31	18	16	17	15	18	14	14
1.25	1.50	15	21	28	31	32	29	30	23	28	24	23	24	26	28	20	16
1.25	1.75	16	25	32	32	36	39	41	31	25	31	26	31.	37	34	25	19
1.50	1.00	17	13	9	7	7	7	8	1	32	1	12	9	5	7	13	15
1.50	1.25	18	20	20	24	18	17	18	19	27	20	22	21	16	19	10	18
1.50	1.50	19	27	30	28	27	28	29	28	23	30	27	30	27	29	26	23
1.50	1.75	20	32	36	29	34	38	40	34	19	36	33	35	38	38	31	28
1.75	1.00	21	16	10	6	6	6	7	2	29	3	13	12	6	8	15	17
1.75	1.25	22	24	21	17	15	16	17	22	24	22	24	22	17	20	23	22
1.75	1.50	23	31	31	26	23	27	28	32	18	32	31	32	28	31	29	27
1.75	1.75	24	35	39	27	33	37	37	37	13	39	36	38	39	39	35	33
2.00	1.00	25	17	11	5	5	5	6	4	26	4	14	13	7	9	17	20
2.00	1.25	26	26	23	13	14	15	16	24	20	23	25	23	18	21	27	27
2.00	1.50	28	34	33	22	21	26	27	33	14	33	34	33	29	34	34	32
2.00	1.75	29	38	40	25	31	35	36	37	9	40	39	40	40	40	38	37
2.25	1.00	27	18	14	4	4	4	4	6	22	6	17	14	8	10	19	21
2.25	1.25	31	28	24	11	12	14	15	25	16	25	28	26	19	24	28	30
2.25	1.50	33	36	34	18	20	25	26	35	11	34	35	34	30	33	36	36
2.25	1.75	36	41	41	23	29	33	35	41	6	41	41	41	41	41	41	40
2.50	1.00	30	19	15	3	3	3	3	8	21	7	18	15	9	12	21	24
2.50	1.25	34	29	25	10	11	13	14	27	12	26	29	27	20	25	30	31
2.50	1.50	37	37	35	15	19	24	25	36	7	35	37	36	31	35	37	38
2.50	1.75	39	42	42	21	28	32	34	42	4	42	42	42	42	42	42	42
2.75	1.00	32	16	16	2	2	2	2	9	17	9	19	18	10	13	22	25
2.75	1.25	38	26	26	9	10	12	13	29	5	20	30	28	21	26	34	34
2.75	1.50	41	39	37	14	17	23	24	38	5	37	38	37	32	36	39	39
2.75	1.75	42	43	43	17	25	31	32	43	2	43	43	43	43	43	43	43
3.00	1.00	35	17	17	1	1	1	1	10	15	10	21	19	11	15	24	26
3.00	1.25	40	33	27	8	9	11	12	30	8	27	32	29	22	27	33	35
3.00	1.50	43	40	38	12	16	22	23	40	3	38	40	39	33	40	40	41
3.00	1.75	44	44	44	16	24	30	31	44	1	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< WINDOW >		DIRECTION											>>				
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	-	-	-	-	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	-	-	-	-	-	-	-	-	2	2	-	2	2	2
.50	1.50	3	3	-	-	-	-	-	-	-	-	3	-	-	3	3	3
.50	1.75	4	4	-	-	-	-	-	-	-	-	-	-	-	4	4	4
.75	1.00	-	-	-	-	-	-	-	-	2	-	-	-	2	-	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	3	-	-	-	3	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	10	8	-	-	4	-	-	-	4	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	12	-	7	7	-	5	-	-	-	5	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	8	6	6	-	6	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	5	5	5	-	7	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	4	4	4	4	-	8	-	-	-	-	-	-	-
2.25	1.25	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	9	3	3	-	9	-	-	-	-	-	-	-
2.50	1.00	-	-	-	9	9	11	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	2	2	2	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	7	9	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	13	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	1	1	1	1	-	11	-	-	-	-	-	-	-
3.00	1.25	-	-	-	6	8	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	-	-	-	-	1	-	1	1	1	1	1	1	1
.50	1.25	2	2	2	-	-	-	-	-	-	-	2	2	-	2	2	2
.50	1.50	3	3	3	-	-	-	-	-	-	-	3	-	-	3	3	3
.50	1.75	4	4	4	-	-	-	-	-	-	-	4	-	-	4	4	4
.75	1.00	5	4	-	-	-	-	-	-	-	-	-	-	2	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	8	8	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

WINDOW		DIRECTION															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	3	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	1	1	1	1	1	1	1	2	2	1	2	2	2
.50	1.50	3	3	3	1	1	1	1	1	1	1	3	3	1	3	3	3
.50	1.75	4	4	4	1	1	1	1	1	1	1	4	4	1	4	4	4
.75	1.00	5	5	5	1	1	11	1	1	1	1	1	2	1	2	1	1
.75	1.25	6	6	6	1	1	1	1	1	1	1	1	1	1	1	1	1
.75	1.50	7	7	7	1	1	1	1	1	1	1	1	1	1	1	1	1
.75	1.75	8	8	8	1	1	1	1	1	1	1	1	1	1	1	1	1
1.00	1.00	9	9	9	1	1	10	1	1	1	1	1	1	1	1	1	1
1.00	1.25	10	10	10	1	1	1	1	1	1	1	1	1	1	1	1	1
1.00	1.50	11	11	11	1	1	1	1	1	1	1	1	1	1	1	1	1
1.00	1.75	12	12	12	1	1	1	1	1	1	1	1	1	1	1	1	1
1.25	1.00				1	1	1	1	1	1	1	1	1	1	1	1	1
1.25	1.25				1	1	1	1	1	1	1	1	1	1	1	1	1
1.25	1.50				1	1	1	1	1	1	1	1	1	1	1	1	1
1.25	1.75				1	1	1	1	1	1	1	1	1	1	1	1	1
1.50	1.00				1	1	1	1	1	1	1	1	1	1	1	1	1
1.50	1.25				1	1	1	1	1	1	1	1	1	1	1	1	1
1.50	1.50				1	1	1	1	1	1	1	1	1	1	1	1	1
1.50	1.75				1	1	1	1	1	1	1	1	1	1	1	1	1
1.75	1.00				1	1	1	1	1	1	1	1	1	1	1	1	1
1.75	1.25				1	1	1	1	1	1	1	1	1	1	1	1	1
1.75	1.50				1	1	1	1	1	1	1	1	1	1	1	1	1
1.75	1.75				1	1	1	1	1	1	1	1	1	1	1	1	1
2.00	1.00				1	1	1	1	1	1	1	1	1	1	1	1	1
2.00	1.25				1	1	1	1	1	1	1	1	1	1	1	1	1
2.00	1.50				1	1	1	1	1	1	1	1	1	1	1	1	1
2.00	1.75				1	1	1	1	1	1	1	1	1	1	1	1	1
2.25	1.00				1	1	1	1	1	1	1	1	1	1	1	1	1
2.25	1.25				1	1	1	1	1	1	1	1	1	1	1	1	1
2.25	1.50				1	1	1	1	1	1	1	1	1	1	1	1	1
2.25	1.75				1	1	1	1	1	1	1	1	1	1	1	1	1
2.50	1.00				1	1	1	1	1	1	1	1	1	1	1	1	1
2.50	1.25				1	1	1	1	1	1	1	1	1	1	1	1	1
2.50	1.50				1	1	1	1	1	1	1	1	1	1	1	1	1
2.50	1.75				1	1	1	1	1	1	1	1	1	1	1	1	1
2.75	1.00				1	1	1	1	1	1	1	1	1	1	1	1	1
2.75	1.25				1	1	1	1	1	1	1	1	1	1	1	1	1
2.75	1.50				1	1	1	1	1	1	1	1	1	1	1	1	1
2.75	1.75				1	1	1	1	1	1	1	1	1	1	1	1	1
3.00	1.00				1	1	1	1	1	1	1	1	1	1	1	1	1
3.00	1.25				1	1	1	1	1	1	1	1	1	1	1	1	1
3.00	1.50				1	1	1	1	1	1	1	1	1	1	1	1	1
3.00	1.75				1	1	1	1	1	1	1	1	1	1	1	1	1

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

Width.M		Height.M	NORTH		22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	1.25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1.00	1.50	1.50	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1.00	1.75	1.75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1.25	1.00	1.00	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
1.25	1.25	1.25	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1.25	1.50	1.50	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
1.25	1.75	1.75	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
1.50	1.00	1.00	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
1.50	1.25	1.25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
1.50	1.50	1.50	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1.50	1.75	1.75	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1.75	1.00	1.00	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
1.75	1.25	1.25	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
1.75	1.50	1.50	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
1.75	1.75	1.75	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
2.00	1.00	1.00	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2.00	1.25	1.25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2.00	1.50	1.50	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
2.00	1.75	1.75	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
2.25	1.00	1.00	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
2.25	1.25	1.25	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
2.25	1.50	1.50	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2.25	1.75	1.75	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2.50	1.00	1.00	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2.50	1.25	1.25	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2.50	1.50	1.50	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
2.50	1.75	1.75	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
2.75	1.00	1.00	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2.75	1.25	1.25	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
2.75	1.50	1.50	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
2.75	1.75	1.75	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
3.00	1.00	1.00	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
3.00	1.25	1.25	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
3.00	1.50	1.50	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43

< W I N D O W > -----<< >>-----

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

<<-----<< < W I N D O W > ----->>>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
1.00	1.00	1	1	1	1	40	34	1	1	33	1	1	1	1	1	1	1
1.25	1.25	2	2	2	3	42	42	2	3	31	3	2	2	12	2	2	2
1.50	1.50	3	3	3	6	43	43	3	5	32	4	3	3	23	3	3	3
1.75	1.75	4	4	4	15	44	44	4	8	34	8	4	4	31	4	4	4
1.00	1.00	5	5	5	2	27	16	5	2	24	2	5	5	2	5	5	5
1.25	1.25	6	6	6	10	37	36	6	6	19	6	6	6	13	6	6	6
1.50	1.50	7	7	7	18	39	40	7	10	30	10	7	7	24	7	7	7
1.75	1.75	8	8	8	27	41	41	8	14	35	14	8	8	35	8	8	8
1.00	1.00	9	9	9	4	14	9	9	4	18	5	9	7	3	4	8	9
1.25	1.25	10	10	10	16	31	25	10	11	17	12	10	11	14	16	10	10
1.50	1.50	11	11	11	24	36	37	12	18	29	20	12	13	25	22	12	11
1.75	1.75	12	12	12	31	38	39	13	23	36	24	13	16	36	30	14	12
1.00	1.00	13	13	13	5	8	8	11	7	16	7	11	10	4	6	11	13
1.25	1.25	14	14	14	17	22	20	15	16	14	16	15	15	15	18	15	14
1.50	1.50	15	15	15	28	33	32	17	22	28	22	17	20	26	28	18	16
1.75	1.75	16	16	16	37	35	38	20	27	37	29	20	25	37	34	22	17
1.00	1.00	17	17	17	7	7	7	14	9	15	9	14	12	5	7	13	15
1.25	1.25	18	18	18	19	10	17	18	21	12	21	18	19	16	17	17	17
1.50	1.50	19	19	19	29	29	28	23	26	27	26	23	26	27	29	25	21
1.75	1.75	20	20	20	34	34	35	28	33	38	34	28	31	38	38	20	24
1.00	1.00	21	21	21	8	6	6	16	12	13	11	16	14	6	10	16	18
1.25	1.25	22	22	22	20	15	15	22	24	10	23	22	24	17	20	23	22
1.50	1.50	24	24	24	32	25	24	29	31	26	32	29	29	28	31	29	26
1.75	1.75	25	25	25	37	32	33	32	36	37	37	32	35	39	39	34	29
2.00	1.00	23	23	23	9	5	5	19	13	11	13	19	17	7	11	17	20
2.00	1.25	26	26	26	25	13	14	27	25	7	25	26	27	18	23	27	27
2.00	1.50	28	28	28	33	21	23	33	34	25	33	33	33	29	32	32	32
2.00	1.75	30	30	30	40	30	31	37	40	40	40	37	30	40	40	37	34
2.25	1.00	27	27	27	11	4	4	21	15	9	14	21	18	8	12	20	23
2.25	1.25	31	31	31	22	12	13	30	28	5	27	30	28	19	24	30	31
2.25	1.50	33	33	33	35	20	22	35	35	23	35	35	36	30	36	36	35
2.25	1.75	36	36	36	41	28	30	39	41	41	41	39	41	41	41	40	39
2.50	1.00	29	29	29	12	3	3	24	17	8	15	24	21	9	13	21	25
2.50	1.25	34	34	34	23	11	12	31	29	3	28	31	30	20	25	31	33
2.50	1.50	37	37	37	34	19	21	38	37	22	36	38	37	32	35	38	38
2.50	1.75	39	39	39	42	26	29	42	42	42	42	42	42	42	42	42	41
2.75	1.00	32	32	32	13	2	2	25	19	6	17	25	22	10	14	24	28
2.75	1.25	38	38	38	25	10	11	34	30	2	30	34	32	21	26	33	36
2.75	1.50	41	41	41	35	17	19	40	38	21	38	40	39	33	39	39	40
2.75	1.75	42	42	42	43	24	27	43	43	43	43	43	43	43	43	43	43
3.00	1.00	35	35	35	14	1	1	26	20	4	19	27	23	11	15	26	30
3.00	1.25	40	40	40	26	9	10	36	32	1	31	36	34	22	27	35	37
3.00	1.50	43	43	43	36	16	18	41	39	20	39	41	40	34	37	41	42
3.00	1.75	44	44	44	44	23	26	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

< WINDOW > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	41	29	1	18	44	17	1	1	1	1	1	1
.50	1.25	2	2	2	3	42	41	2	16	43	15	2	2	12	3	2	2
.50	1.50	3	3	3	10	43	43	3	14	42	13	3	3	23	5	3	3
.50	1.75	4	4	4	15	44	44	4	13	40	12	4	4	34	10	4	4
.75	1.00	5	5	5	12	30	16	5	11	41	11	5	5	2	2	5	5
.75	1.25	6	6	6	14	37	30	6	3	39	3	6	6	13	9	6	6
.75	1.50	7	7	7	18	39	39	7	15	37	16	7	7	24	17	7	7
.75	1.75	8	8	8	27	40	42	8	21	36	21	8	8	35	21	8	8
1.00	1.00	9	9	9	4	15	9	9	7	38	8	9	9	3	4	9	9
1.00	1.25	10	10	10	16	31	22	10	12	35	14	10	10	14	16	10	10
1.00	1.50	11	11	11	25	35	37	11	20	33	20	11	11	25	22	12	11
1.00	1.75	12	12	12	30	38	40	12	26	30	27	12	12	36	29	14	12
1.25	1.00	13	13	13	5	10	8	13	5	34	5	13	13	4	6	11	13
1.25	1.25	14	14	14	17	22	10	14	17	31	18	14	14	15	18	15	14
1.25	1.50	15	15	15	28	33	33	15	23	28	24	15	15	26	28	17	15
1.25	1.75	16	16	16	35	36	38	16	31	25	31	16	16	37	33	21	17
1.50	1.00	17	17	17	6	7	7	17	1	32	1	17	17	5	7	13	16
1.50	1.25	18	18	18	19	19	17	18	19	27	19	18	18	16	19	18	18
1.50	1.50	19	19	19	29	28	26	19	28	22	29	19	19	27	30	24	20
1.50	1.75	20	20	20	34	34	36	20	34	19	35	20	20	30	38	28	23
1.75	1.00	21	21	21	13	6	6	21	2	29	2	21	21	6	8	16	19
1.75	1.25	22	22	22	20	14	15	22	22	24	22	22	22	17	20	22	22
1.75	1.50	23	23	23	31	24	25	23	32	18	32	23	23	28	31	30	25
1.75	1.75	24	24	24	39	32	35	24	37	13	38	24	24	39	39	34	29
2.00	1.00	25	25	25	8	5	5	25	4	26	4	25	25	7	11	19	21
2.00	1.25	26	26	26	21	13	14	26	24	20	23	26	26	18	23	27	26
2.00	1.50	28	28	28	32	21	24	28	33	14	33	28	28	29	32	32	32
2.00	1.75	29	29	29	40	29	34	29	39	9	40	29	29	40	40	37	34
2.25	1.00	27	27	27	9	4	4	27	6	23	6	27	27	8	12	20	24
2.25	1.25	31	30	26	22	12	13	28	25	16	25	30	28	19	24	27	30
2.25	1.50	32	35	35	33	20	23	35	35	11	34	35	36	30	34	36	35
2.25	1.75	35	39	41	41	27	32	39	41	6	41	39	41	41	41	40	39
2.50	1.00	30	27	17	11	3	3	27	8	21	7	27	21	9	13	23	27
2.50	1.25	34	33	27	23	11	12	32	27	12	26	31	30	20	25	31	33
2.50	1.50	37	38	36	34	18	21	38	36	7	36	38	37	31	35	38	38
2.50	1.75	39	41	42	42	26	31	42	42	4	42	42	42	42	42	42	41
2.75	1.00	33	28	18	12	2	2	30	9	17	9	25	22	10	14	25	28
2.75	1.25	38	36	20	24	7	11	34	29	10	28	34	32	21	26	33	35
2.75	1.50	41	40	38	36	17	20	40	38	5	37	40	39	32	36	39	40
2.75	1.75	42	43	43	43	25	28	43	43	2	43	43	43	43	43	43	43
3.00	1.00	36	31	20	13	1	1	33	10	15	10	26	24	11	15	26	31
3.00	1.25	40	37	30	26	8	10	37	30	8	30	36	34	22	27	35	37
3.00	1.50	43	42	39	37	16	19	41	40	3	39	41	40	33	37	41	42
3.00	1.75	44	44	44	44	23	27	44	44	1	44	44	44	44	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< WINDOW >		-----<<----->>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	-	-	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	-	-	-	2	-	-	-	2	2	-	-	2	2
.50	1.50	3	3	3	-	-	-	3	-	-	-	3	3	-	-	3	3
.50	1.75	4	4	-	-	-	-	4	-	-	-	4	-	-	4	4	4
.75	1.00	-	-	2	-	-	-	-	-	2	-	-	-	-	-	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	11	10	-	-	-	4	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	7	-	-	-	5	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	6	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	5	-	-	-	7	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	4	-	-	-	8	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	3	-	-	-	9	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	2	-	-	-	10	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	1	-	-	-	11	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

Width.M	Height.M	NORTH		EAST				SOUTH				WEST			
		22.5	45.0	67.5	112.5	135.0	157.5	202.5	270.0	247.5	292.5	315.0	337.5		
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1		
.50	1.25	2	2	3	2	2	2	2	2	2	2	2	2		
.50	1.50	3	3	-	3	3	-	-	3	3	3	3	3		
.50	1.75	4	4	-	4	-	-	-	4	4	4	4	4		
.75	1.00	-	-	2	-	-	-	-	-	-	3	-	-		
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-		
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-		
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-		
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-		
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-		
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-		
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-		
1.25	1.00	-	-	-	8	-	-	-	-	-	-	-	-		
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-		
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-		
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-		
1.50	1.00	-	-	7	7	-	-	-	-	-	-	-	-		
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-		
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-		
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-		
1.75	1.00	-	-	-	6	-	-	-	-	-	-	-	-		
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-		
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-		
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-		
2.00	1.00	-	-	-	5	-	-	-	-	-	-	-	-		
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-		
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-		
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-		
2.25	1.00	-	-	-	4	-	-	-	-	-	-	-	-		
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-		
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-		
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-		
2.50	1.00	-	-	-	3	-	-	-	-	-	-	-	-		
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-		
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-		
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-		
2.75	1.00	-	-	-	2	-	-	-	-	-	-	-	-		
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-		
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-		
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-		
3.00	1.00	-	-	-	1	-	-	-	-	-	-	-	-		
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-		
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-		
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-		

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	43.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	-	-	1	-	-	-	1	1	1	1	1	1
.50	1.25	2	2	3	3	-	-	-	-	-	-	2	2	3	3	2	2
.50	1.50	3	3	-	-	-	-	-	-	-	-	3	3	-	-	3	3
.50	1.75	4	4	-	-	-	-	-	-	-	-	4	4	-	-	4	4
.75	1.00	5	-	2	2	-	-	-	-	-	-	5	-	2	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	7	-	1	-	1	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

WINDOW >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	9	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	3	2	2	12	24	2	2	12	3	2	2
.50	1.50	3	3	3	5	23	6	3	3	23	42	3	4	23	5	3	3
.50	1.75	4	4	4	11	26	15	4	4	27	44	4	5	26	11	4	4
.75	1.00	5	5	5	2	2	2	5	5	10	1	5	3	2	2	5	5
.75	1.25	6	6	6	0	13	9	6	6	13	12	6	7	13	0	6	6
.75	1.50	7	7	7	17	24	17	7	8	24	20	8	10	24	17	8	7
.75	1.75	8	8	12	21	35	24	9	9	35	28	11	16	35	21	9	8
1.00	1.00	9	9	7	4	3	4	8	7	9	2	7	6	3	4	7	9
1.00	1.25	10	10	11	16	14	16	10	11	14	13	10	12	14	16	11	10
1.00	1.50	11	11	17	22	25	22	12	14	25	23	16	20	25	22	13	12
1.00	1.75	12	13	22	27	36	30	14	18	36	32	22	25	36	27	16	14
1.25	1.00	13	12	8	6	4	5	11	10	8	3	9	8	4	6	10	11
1.25	1.25	14	14	16	10	15	10	15	15	15	14	15	18	15	18	15	15
1.25	1.50	15	16	23	28	27	28	17	22	26	25	23	23	27	28	20	17
1.25	1.75	16	18	20	33	37	34	21	26	37	35	20	31	37	33	25	21
1.50	1.00	17	15	10	7	5	7	13	12	7	4	12	9	5	7	12	13
1.50	1.25	18	19	21	17	16	19	19	20	16	15	21	21	16	19	17	18
1.50	1.50	20	21	27	30	28	29	24	27	28	26	26	28	28	30	26	24
1.50	1.75	21	24	33	38	38	38	28	31	38	36	33	34	38	38	30	28
1.75	1.00	19	17	13	9	6	8	16	13	6	5	13	11	6	9	14	16
1.75	1.25	22	22	24	20	17	20	23	24	17	16	24	22	17	20	23	22
1.75	1.50	24	27	31	31	29	31	29	30	29	27	31	32	29	31	29	27
1.75	1.75	26	31	36	39	37	37	33	36	39	37	36	38	39	39	35	34
2.00	1.00	23	20	14	10	7	10	18	16	5	6	14	13	7	10	17	19
2.00	1.25	27	26	25	23	18	21	27	25	10	17	25	24	18	23	27	27
2.00	1.50	29	32	34	32	30	32	32	33	30	29	34	33	30	32	33	32
2.00	1.75	32	36	40	40	40	40	37	38	40	38	39	40	40	40	38	37
2.25	1.00	25	23	15	12	8	11	20	17	4	7	17	14	8	12	18	20
2.25	1.25	30	30	26	24	17	23	30	28	17	18	27	26	17	24	29	30
2.25	1.50	35	35	35	34	31	33	36	35	31	30	35	35	31	34	36	36
2.25	1.75	36	39	41	41	41	41	40	40	41	37	41	41	41	41	41	40
2.50	1.00	28	25	18	13	9	12	22	19	3	8	18	15	7	13	21	23
2.50	1.25	34	33	29	25	20	25	31	29	20	19	27	27	20	25	31	31
2.50	1.50	38	38	37	35	32	38	38	37	32	31	37	36	32	35	37	38
2.50	1.75	40	41	42	42	42	42	42	42	42	40	42	42	42	42	42	42
2.75	1.00	31	28	19	14	10	13	25	21	2	10	19	17	10	14	22	25
2.75	1.25	37	34	30	26	21	26	34	32	21	21	30	29	21	26	32	33
2.75	1.50	41	40	38	36	33	43	39	43	43	41	43	43	43	43	43	43
3.00	1.00	33	29	20	15	11	14	26	23	1	11	20	19	11	15	24	26
3.00	1.25	39	37	32	27	22	27	35	34	22	22	32	30	22	27	34	35
3.00	1.50	42	42	39	37	34	37	41	41	34	34	40	39	22	27	34	41

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

< W I N D O W > -----<< >>----->>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	33	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	2	2	14	31	14	2	2	12	3	2	2
.50	1.50	3	3	3	5	23	3	3	33	32	33	3	4	23	5	3	3
.50	1.75	4	4	4	11	27	4	4	44	44	44	4	5	29	11	4	4
.75	1.00	5	5	5	2	2	5	5	2	27	2	5	3	2	2	5	5
.75	1.25	6	6	6	11	13	6	6	12	19	12	6	7	13	8	6	6
.75	1.50	7	7	7	18	24	7	7	23	30	23	8	11	24	17	7	7
.75	1.75	8	8	8	26	35	8	8	38	43	38	10	17	35	24	8	8
1.00	1.00	9	9	9	4	3	9	9	3	18	3	7	6	3	4	7	9
1.00	1.25	10	10	10	16	14	10	10	16	17	16	11	12	14	16	11	10
1.00	1.50	11	11	11	23	25	12	12	27	29	27	14	20	25	22	13	12
1.00	1.75	12	12	12	30	36	13	13	42	42	42	17	25	36	30	16	13
1.25	1.00	13	13	13	5	4	11	11	4	16	4	9	8	4	6	10	11
1.25	1.25	14	14	14	17	15	14	14	17	14	17	16	17	15	18	15	15
1.25	1.50	15	15	15	28	26	16	16	24	28	24	23	24	26	28	21	17
1.25	1.75	16	16	16	35	37	19	19	34	41	34	26	31	37	35	25	20
1.50	1.00	17	17	17	7	5	15	15	5	15	5	12	9	5	7	12	14
1.50	1.25	18	18	18	17	16	18	18	15	12	15	21	21	16	19	19	19
1.50	1.50	19	19	19	29	27	21	21	25	26	25	27	29	27	29	26	24
1.50	1.75	20	20	20	38	38	25	25	35	40	35	32	34	38	30	31	28
1.75	1.00	21	21	21	9	6	17	17	6	13	6	13	10	6	9	14	16
1.75	1.25	22	22	22	20	17	20	20	17	10	17	24	22	17	20	24	23
1.75	1.50	24	24	24	31	28	28	28	26	25	26	30	32	28	31	29	29
1.75	1.75	25	25	25	39	39	31	31	36	39	36	36	38	39	39	35	33
2.00	1.00	23	23	23	10	7	20	20	7	11	7	15	13	7	10	17	18
2.00	1.25	26	26	26	21	10	26	26	10	9	10	25	23	10	21	27	27
2.00	1.50	28	28	28	32	30	32	32	28	24	28	34	33	30	32	33	32
2.00	1.75	30	30	30	40	40	36	36	37	30	37	38	40	40	40	38	37
2.25	1.00	27	27	27	12	8	23	23	8	9	8	17	14	8	12	18	21
2.25	1.25	31	31	31	23	17	30	30	19	5	19	20	26	19	23	28	30
2.25	1.50	33	33	33	33	31	35	35	23	23	29	35	35	31	33	36	36
2.25	1.75	36	36	36	41	41	39	39	37	37	37	41	41	41	41	41	39
2.50	1.00	29	29	29	13	9	24	24	9	7	9	18	15	9	13	20	22
2.50	1.25	34	34	34	25	20	33	33	20	3	20	29	27	20	25	30	31
2.50	1.50	37	37	37	34	32	38	38	30	22	30	37	36	32	34	37	38
2.50	1.75	39	39	39	42	42	41	41	40	36	40	42	42	42	42	42	42
2.75	1.00	32	32	32	14	10	27	27	6	6	10	20	16	10	14	22	25
2.75	1.25	38	38	38	26	21	34	34	21	2	21	31	28	21	26	32	34
2.75	1.50	41	41	41	36	33	40	40	31	21	31	39	37	33	36	39	40
2.75	1.75	42	42	42	43	43	43	43	41	35	41	43	43	43	43	43	43
3.00	1.00	35	35	35	15	11	29	29	11	4	11	22	18	11	15	23	26
3.00	1.25	40	40	40	27	22	37	37	1	1	22	33	30	22	27	34	35
3.00	1.50	43	43	43	37	34	42	42	20	20	32	40	39	34	37	40	41
3.00	1.75	44	44	44	44	44	44	44	34	34	43	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	44	44	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	3	2	2	43	43	2	2	12	3	2	2
.50	1.50	3	3	3	6	23	6	3	3	42	42	3	3	23	6	3	3
.50	1.75	4	4	4	14	34	15	4	12	41	41	4	4	34	14	4	4
.75	1.00	5	5	5	2	2	2	5	4	40	13	5	4	2	2	5	5
.75	1.25	6	6	6	11	13	7	6	8	37	10	6	7	13	11	6	6
.75	1.50	7	7	7	17	24	18	7	17	38	18	8	10	24	17	7	7
.75	1.75	8	8	8	22	35	27	8	19	36	33	10	16	35	22	8	8
1.00	1.00	9	9	7	4	3	4	9	5	37	9	7	6	3	4	9	9
1.00	1.25	10	10	11	16	14	16	10	16	35	11	11	11	14	16	10	10
1.00	1.50	11	11	19	23	25	25	11	20	33	22	15	20	25	23	12	11
1.00	1.75	12	12	23	30	36	31	12	25	30	31	20	25	36	30	16	13
1.25	1.00	13	13	9	5	4	5	13	6	34	8	9	8	4	5	11	12
1.25	1.25	14	14	16	18	15	17	14	18	31	12	16	17	15	18	14	14
1.25	1.50	15	15	24	28	26	28	16	23	28	23	23	24	26	28	20	16
1.25	1.75	16	17	31	34	37	36	17	30	25	32	26	31	37	34	25	17
1.50	1.00	17	16	10	7	5	7	15	7	32	1	12	9	5	7	13	15
1.50	1.25	18	18	21	19	16	19	18	21	27	14	22	21	16	19	18	18
1.50	1.50	19	20	29	29	27	29	21	28	23	24	27	30	27	29	26	23
1.50	1.75	20	23	34	38	38	38	24	34	19	36	33	35	38	31	31	28
1.75	1.00	21	19	13	8	6	8	19	9	29	2	13	12	6	8	15	17
1.75	1.25	22	22	22	20	17	20	22	22	24	15	24	22	17	20	23	22
1.75	1.50	23	25	32	31	28	30	26	32	18	25	31	32	28	31	29	29
1.75	1.75	24	29	37	39	39	39	30	36	13	35	36	38	39	39	35	33
2.00	1.00	25	21	14	9	7	10	20	10	26	3	14	13	7	9	17	20
2.00	1.25	26	26	25	21	18	21	25	24	21	16	25	23	18	21	27	27
2.00	1.50	28	32	33	32	29	32	31	33	15	26	34	33	29	32	34	32
2.00	1.75	29	34	40	40	40	40	36	37	7	34	39	40	40	40	38	37
2.25	1.00	27	24	15	10	8	11	23	11	22	4	17	14	8	10	19	21
2.25	1.25	31	30	26	24	19	22	28	26	16	17	28	26	19	24	28	30
2.25	1.50	32	35	35	33	30	33	35	35	11	27	35	34	30	33	36	36
2.25	1.75	35	37	41	41	41	41	39	41	6	37	41	41	41	41	41	40
2.50	1.00	30	27	17	12	9	12	27	13	20	5	18	15	9	12	21	24
2.50	1.25	34	33	27	25	20	23	33	27	12	19	29	27	20	25	30	31
2.50	1.50	37	38	36	35	31	34	38	37	8	20	37	36	31	37	38	38
2.50	1.75	39	41	42	42	42	42	41	42	4	38	42	42	42	42	42	42
2.75	1.00	33	28	18	13	10	13	29	14	17	6	19	18	10	13	22	25
2.75	1.25	38	36	28	26	21	24	34	29	10	20	30	28	21	26	32	34
2.75	1.50	41	40	38	36	32	35	40	38	5	29	38	37	32	36	39	39
2.75	1.75	42	43	43	43	43	43	43	43	2	39	43	43	43	43	43	43
3.00	1.00	36	31	20	15	11	14	32	15	14	7	21	19	11	15	24	26
3.00	1.25	40	37	30	27	22	26	37	31	7	21	32	29	22	27	33	35
3.00	1.50	43	42	39	37	33	37	42	40	3	30	40	39	33	37	40	41
3.00	1.75	44	44	44	44	44	44	44	44	1	40	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

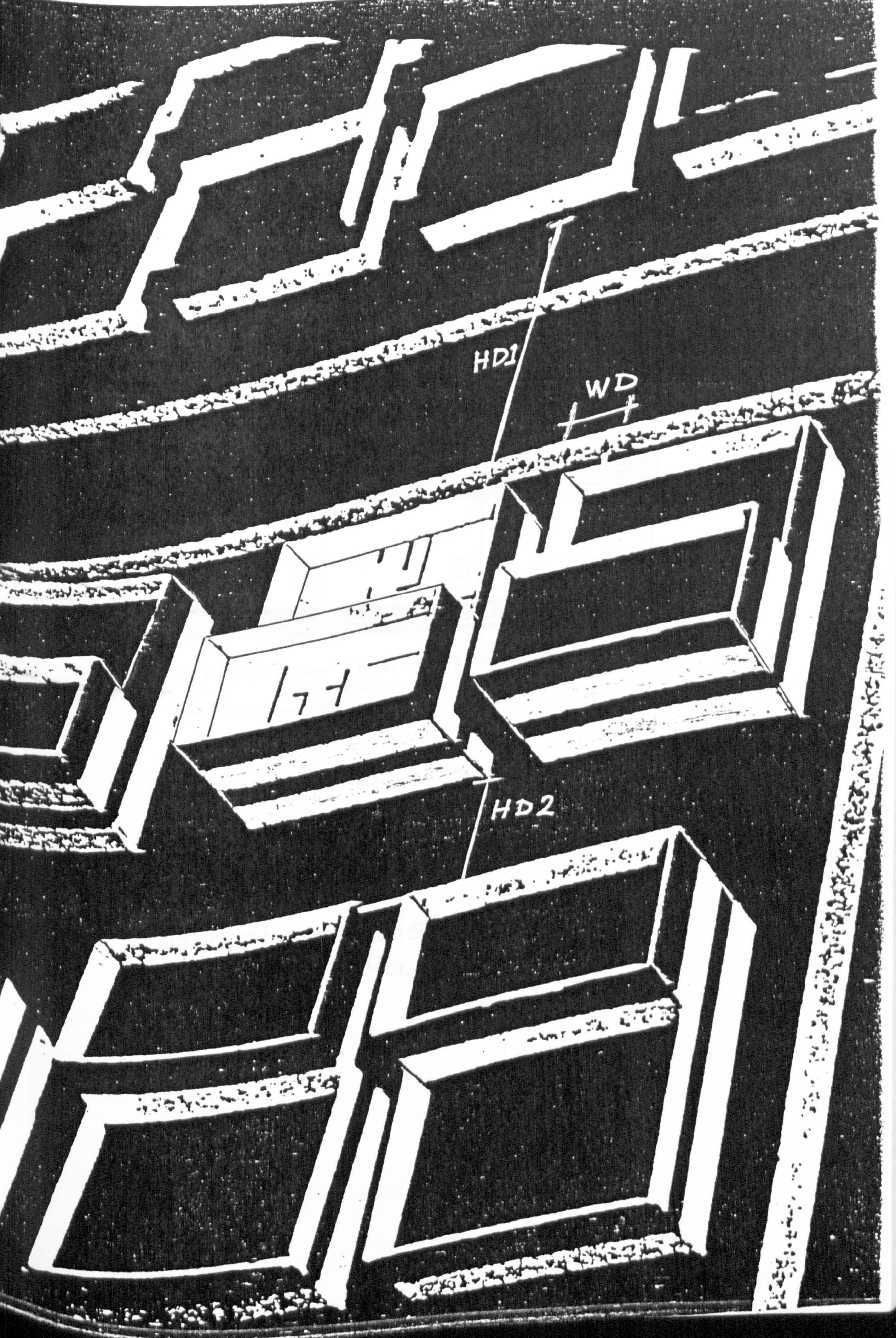
< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	-	1	1	1	1	1	1
.50	1.25	2	2	2	-	-	2	2	2	-	-	2	2	-	2	2	2
.50	1.50	3	3	3	-	-	3	3	3	-	-	3	-	-	3	3	3
.50	1.75	4	4	4	-	-	4	4	4	-	-	-	-	-	4	4	4
.75	1.00	-	-	2	2	2	2	5	10	1	-	-	-	2	-	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	3	-	-	-	9	2	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	4	-	-	-	8	3	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	5	-	-	-	7	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	6	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	7	-	-	-	5	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	-	4	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER
 WALL THICKNESS = 0.12M

W I N D O W >		<<----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
.50	1.25	2	2	3	-	2	2	2	2	-	-	2	2	-	3	2	2
.50	1.50	3	3	-	-	-	4	4	4	-	-	3	-	-	-	3	3
.50	1.75	4	4	-	-	-	6	6	6	-	-	4	-	-	4	4	4
.75	1.00	5	-	-	2	2	3	3	3	-	-	-	-	2	-	-	-
.75	1.25	6	-	-	-	-	7	7	7	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	3	-	-	5	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

T A B L E S H O W I N G T H E T O P 2 0 % O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

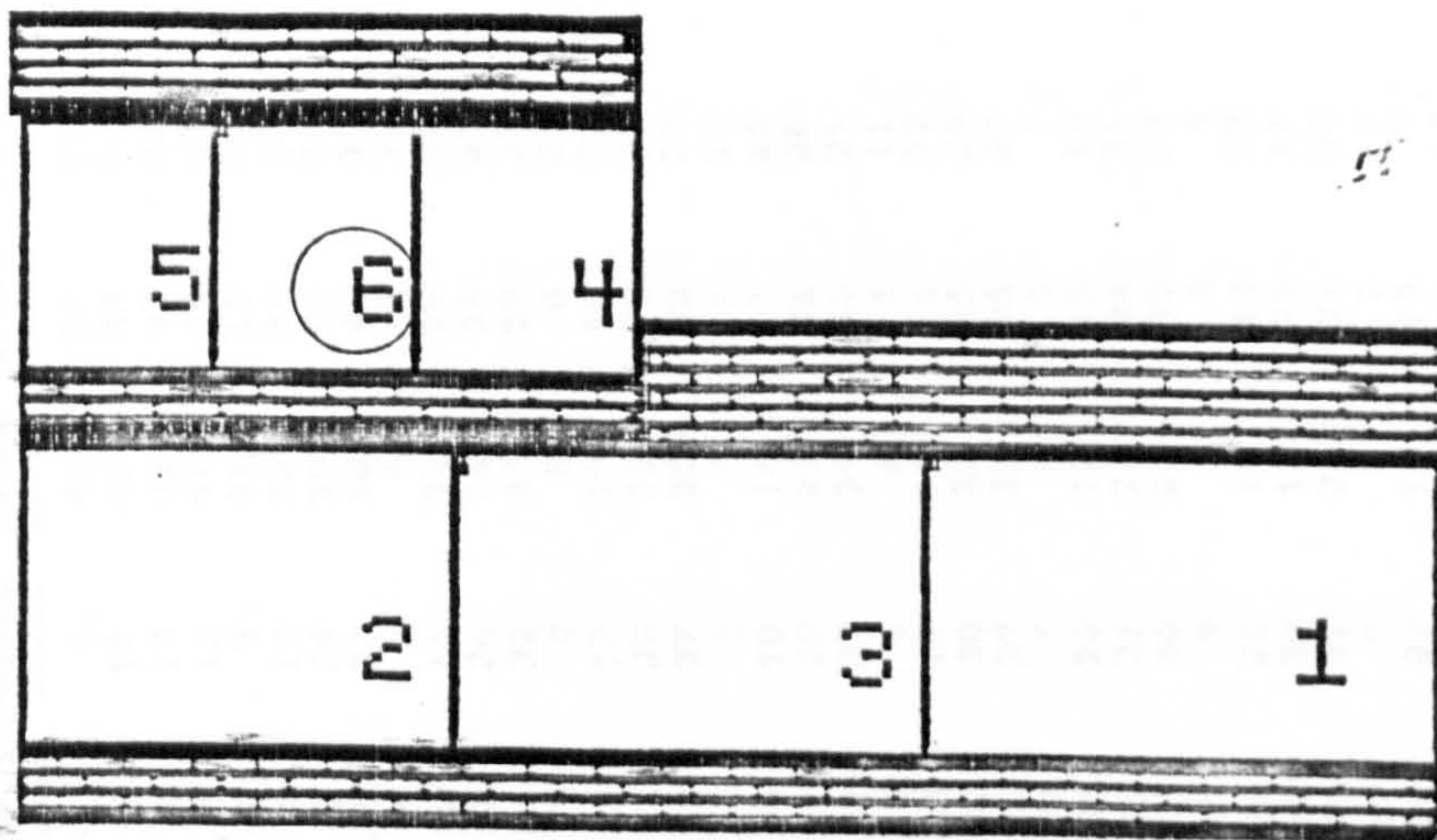


HD1

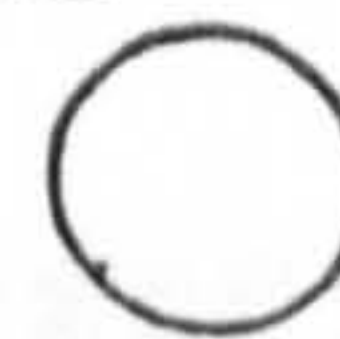
WD

HD2

177



Key diagram showing the location
of window data ..



Side Wall No. 2
1 1/2 Storey

Interhouse Distance
1, 2, 3 and 4m.

<--- W I N D O W >-----<< >>----->>---

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	37	37	41	1	1	1	1	41	30	41	41	1	1	1
.50	1.25	2	2	38	38	42	12	12	3	12	42	42	42	42	2	2	2
.50	1.50	3	3	39	39	43	23	23	4	14	43	43	43	43	4	4	3
.50	1.75	4	4	40	40	44	34	34	7	16	44	44	44	44	5	5	4
.75	1.00	5	5	41	41	37	2	2	2	2	31	10	36	37	3	3	5
.75	1.25	6	6	42	42	38	13	13	5	13	38	34	38	38	6	6	6
.75	1.50	7	7	43	43	39	24	24	0	24	39	40	39	39	16	16	7
.75	1.75	8	9	44	44	40	35	35	10	27	40	41	40	40	17	17	7
1.00	1.00	9	8	33	33	31	3	3	6	3	9	9	31	31	5	5	8
1.00	1.25	10	11	34	34	34	14	14	12	15	30	19	34	34	14	14	11
1.00	1.50	11	13	35	35	35	25	25	17	26	36	37	35	35	21	21	13
1.00	1.75	12	16	36	36	36	36	36	21	32	37	39	36	36	28	28	16
1.25	1.00	13	10	28	27	21	4	4	9	4	8	8	25	21	7	10	10
1.25	1.25	14	14	30	30	29	15	15	16	17	19	18	30	29	17	14	14
1.25	1.50	15	20	31	31	32	26	26	23	28	33	31	32	32	25	25	20
1.25	1.75	17	25	32	32	33	37	37	28	37	35	38	33	33	32	32	25
1.50	1.00	16	12	22	18	11	5	5	11	5	7	7	19	11	9	12	12
1.50	1.25	19	19	26	25	24	16	16	20	10	16	17	26	24	20	19	19
1.50	1.50	21	27	27	28	28	27	27	27	29	25	26	28	28	30	26	26
1.50	1.75	24	32	29	27	30	30	30	32	30	34	36	29	30	36	30	30
1.75	1.00	18	15	14	8	7	6	6	13	6	6	6	11	7	10	15	15
1.75	1.25	23	24	21	21	19	17	17	24	19	15	16	22	19	22	24	24
1.75	1.50	28	30	24	24	25	20	20	30	30	23	25	24	25	31	29	29
1.75	1.75	30	36	25	26	27	39	39	36	37	32	35	27	27	39	35	35
2.00	1.00	20	17	7	5	5	7	7	14	7	4	5	7	5	11	17	17
2.00	1.25	27	26	16	16	14	18	18	25	20	13	15	16	14	21	27	27
2.00	1.50	32	34	20	22	22	29	29	33	31	21	24	21	22	33	33	33
2.00	1.75	35	39	23	23	26	40	40	38	40	28	33	23	26	40	40	38
2.25	1.00	22	18	4	4	4	8	8	15	8	1	4	4	4	12	18	18
2.25	1.25	31	28	11	11	10	19	19	26	21	10	14	12	10	24	28	28
2.25	1.50	36	35	17	17	17	30	30	35	33	17	23	17	17	34	36	36
2.25	1.75	39	41	19	20	23	41	41	40	41	24	32	20	23	41	40	40
2.50	1.00	25	21	3	3	3	9	9	18	9	2	3	3	3	10	21	21
2.50	1.25	33	27	8	7	7	20	20	27	22	11	13	9	9	26	31	31
2.50	1.50	38	37	13	14	15	31	31	37	34	18	22	14	15	35	37	37
2.50	1.75	41	42	17	17	20	42	42	42	42	26	29	18	20	42	42	42
2.75	1.00	26	22	2	2	2	10	10	19	10	3	2	2	2	15	22	22
2.75	1.25	34	31	6	7	8	21	21	31	23	12	12	6	8	27	32	32
2.75	1.50	40	38	10	12	13	32	32	39	35	20	21	10	13	37	39	39
2.75	1.75	43	43	15	15	18	43	43	43	43	27	28	15	18	43	43	43
3.00	1.00	29	23	1	1	1	11	11	22	11	5	1	1	1	17	23	23
3.00	1.25	37	33	5	6	6	22	22	34	14	14	11	5	5	26	29	29
3.00	1.50	42	40	10	10	12	33	33	41	22	22	20	8	12	37	38	41

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

W I N D O W >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	25	25	37	1	1	1	1	37	37	41	37	1	1	1
.50	1.25	2	2	26	26	38	12	12	5	2	38	38	42	38	3	3	2
.50	1.50	3	3	27	27	39	23	23	9	3	39	39	43	39	6	6	3
.50	1.75	4	4	28	28	40	34	34	17	34	40	40	44	40	10	10	4
.75	1.00	5	5	29	29	41	2	2	2	4	41	41	35	41	2	2	5
.75	1.25	6	6	30	30	42	13	13	9	5	42	42	38	42	14	15	6
.75	1.50	7	7	31	31	43	24	24	18	6	43	43	39	43	17	17	7
.75	1.75	8	8	32	32	44	35	35	23	35	44	44	40	44	21	21	8
1.00	1.00	9	9	33	33	45	3	3	3	7	33	33	12	45	4	4	9
1.00	1.25	10	11	34	34	46	14	14	12	8	34	34	33	46	15	16	11
1.00	1.50	11	13	35	35	47	25	25	20	9	35	35	36	47	26	24	13
1.00	1.75	12	15	36	36	48	36	36	27	36	36	33	37	48	34	29	15
1.25	1.00	13	10	37	37	49	4	4	4	10	37	32	8	49	5	5	10
1.25	1.25	14	16	38	38	50	15	15	14	11	38	31	26	50	17	18	16
1.25	1.50	15	22	39	39	51	26	26	22	12	39	29	32	51	27	28	22
1.25	1.75	16	25	40	40	52	37	37	30	37	32	28	34	52	33	33	25
1.50	1.00	17	12	41	41	53	5	5	6	13	32	30	7	53	6	7	12
1.50	1.25	18	20	42	42	54	16	16	19	14	32	26	19	54	10	19	20
1.50	1.50	20	26	43	43	55	27	27	25	15	32	24	29	55	29	30	26
1.50	1.75	21	31	44	44	56	38	38	34	38	30	21	31	56	38	38	31
1.75	1.00	19	14	45	45	57	6	6	7	16	30	27	6	57	7	8	14
1.75	1.25	23	24	46	46	58	17	17	21	17	30	23	15	58	19	20	24
1.75	1.50	24	30	47	47	59	28	28	31	18	30	18	25	59	30	31	30
1.75	1.75	27	35	48	48	60	39	39	37	39	29	15	30	60	39	39	35
2.00	1.00	22	17	49	49	61	7	7	10	19	29	25	5	61	8	9	17
2.00	1.25	26	27	50	50	62	18	18	24	20	30	19	14	62	21	22	27
2.00	1.50	30	34	51	51	63	29	29	33	21	30	13	23	63	31	32	34
2.00	1.75	33	38	52	52	64	40	40	40	40	28	10	28	64	40	40	38
2.25	1.00	25	18	53	53	65	8	8	11	22	28	22	4	65	9	11	18
2.25	1.25	31	28	54	54	66	19	19	26	23	30	16	13	66	22	23	28
2.25	1.50	35	36	55	55	67	30	30	35	24	30	11	20	67	34	34	36
2.25	1.75	37	41	56	56	68	41	41	41	41	27	6	27	68	41	41	41
2.50	1.00	28	19	57	57	69	9	9	13	25	30	20	3	69	10	12	19
2.50	1.25	34	29	58	58	70	20	20	28	26	30	12	11	70	23	25	29
2.50	1.50	38	37	59	59	71	31	31	36	27	30	7	18	71	33	35	37
2.50	1.75	41	42	60	60	72	42	42	42	42	26	4	24	72	42	42	42
2.75	1.00	29	21	61	61	73	10	10	15	28	26	17	2	73	11	13	21
2.75	1.25	36	32	62	62	74	21	21	29	29	18	9	10	74	24	26	32
2.75	1.50	40	39	63	63	75	32	32	38	30	17	5	17	75	35	36	39
2.75	1.75	43	43	64	64	76	43	43	43	43	25	2	22	76	43	43	43
3.00	1.00	32	23	65	65	77	11	11	16	31	25	14	1	77	12	14	23
3.00	1.25	39	33	66	66	78	22	22	32	32	17	8	9	78	25	27	33
3.00	1.50	42	40	67	67	79	33	33	39	33	16	3	16	79	36	37	40
3.00	1.75	44	44	68	68	80	44	44	44	44	24	1	21	80	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

<<-----<< < WINDOW > ----->>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	13	5	29	1	1	1	1	29	29	37	29	1	1	1
.50	1.25	2	2	14	6	30	2	2	2	2	30	30	38	30	11	2	2
.50	1.50	3	3	15	7	31	3	3	3	3	31	31	39	31	13	3	3
.50	1.75	4	4	16	8	32	4	4	4	4	32	32	40	32	16	4	4
.75	1.00	5	5	17	9	33	5	5	5	5	33	33	41	33	2	5	5
.75	1.25	6	6	18	10	34	6	6	6	6	34	34	42	34	14	6	6
.75	1.50	7	7	19	11	35	7	7	7	7	35	35	43	35	25	7	7
.75	1.75	8	8	20	12	36	8	8	8	8	36	36	44	36	27	8	8
1.00	1.00	9	9	21	13	37	9	9	9	9	37	37	30	37	3	9	9
1.00	1.25	10	10	22	14	38	10	10	10	10	38	38	22	38	15	10	10
1.00	1.50	11	12	23	15	39	11	11	11	11	39	39	35	39	26	11	11
1.00	1.75	12	14	24	16	40	12	12	12	12	40	40	36	40	31	12	12
1.25	1.00	13	11	25	17	41	13	13	13	13	41	41	16	41	9	13	13
1.25	1.25	14	15	26	18	42	14	14	14	14	42	42	15	42	10	14	14
1.25	1.50	15	21	27	19	43	15	15	15	15	43	43	32	43	28	15	15
1.25	1.75	16	25	28	20	44	16	16	16	16	44	44	34	44	37	16	16
1.50	1.00	17	13	29	21	26	17	17	17	17	18	28	14	26	5	17	17
1.50	1.25	18	20	30	22	18	18	18	18	18	24	27	12	18	18	18	18
1.50	1.50	19	27	31	23	19	19	19	19	19	27	26	26	19	29	19	19
1.50	1.75	20	32	32	24	28	20	20	20	20	20	25	33	28	30	28	28
1.75	1.00	21	16	33	25	20	21	21	21	21	6	24	13	20	6	13	16
1.75	1.25	22	24	34	26	13	22	22	22	22	11	22	9	13	19	14	24
1.75	1.50	23	31	35	27	16	23	23	23	23	19	20	23	16	30	14	24
1.75	1.75	25	35	36	28	27	24	24	24	24	26	17	31	27	37	30	31
2.00	1.00	24	17	37	29	17	25	25	25	25	5	23	11	17	7	15	17
2.00	1.25	27	26	38	30	6	26	26	26	26	7	10	7	5	21	16	26
2.00	1.50	29	34	39	31	14	27	27	27	27	14	13	21	14	32	16	26
2.00	1.75	33	38	40	32	25	28	28	28	28	25	11	29	25	40	31	34
2.25	1.00	26	18	41	33	15	29	29	29	29	1	21	10	15	8	17	18
2.25	1.25	31	28	42	34	4	30	30	30	30	8	14	4	4	22	18	28
2.25	1.50	35	36	43	35	11	31	31	31	31	13	10	20	11	33	36	28
2.25	1.75	37	41	44	36	24	32	32	32	32	23	6	20	24	41	41	36
2.50	1.00	28	19	6	37	12	33	33	33	33	2	19	8	12	9	19	19
2.50	1.25	34	29	5	38	3	34	34	34	34	9	12	3	3	23	20	29
2.50	1.50	38	37	11	39	10	35	35	35	35	15	7	19	10	34	34	37
2.50	1.75	40	42	12	40	23	36	36	36	36	22	4	27	23	42	42	42
2.75	1.00	30	22	4	41	9	37	37	37	37	3	16	6	9	10	22	22
2.75	1.25	36	30	3	42	2	38	38	38	38	10	7	2	2	24	30	30
2.75	1.50	41	39	8	4	8	39	39	39	39	16	5	18	8	35	39	39
2.75	1.75	43	43	3	5	22	43	43	43	43	21	2	25	22	43	43	43
3.00	1.00	32	23	2	43	5	21	21	21	21	4	15	5	5	12	23	23
3.00	1.25	39	33	1	44	1	22	22	22	22	12	8	1	1	25	24	33
3.00	1.50	42	40	7	2	7	33	33	33	33	17	3	17	7	36	40	40
3.00	1.75	44	44	9	1	21	44	44	44	44	20	1	24	21	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< WINDOW >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	-	-	-	1	1	1	1	-	-	-	-	1	1	1
.50	1.25	2	2	-	-	-	-	3	3	12	-	-	-	-	-	2	2
.50	1.50	3	3	-	-	-	-	4	4	-	-	-	-	-	-	-	3
.50	1.75	4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	4
.75	1.00	-	-	-	-	-	2	2	2	2	-	-	-	2	-	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	3	3	-	3	9	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	4	4	-	4	8	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	5	5	-	5	7	7	-	11	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	6	6	-	6	6	6	11	7	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	7	7	-	7	4	5	7	5	-	-	-
2.00	1.00	-	-	-	-	-	5	5	-	5	13	5	7	14	-	-	-
2.00	1.25	-	-	-	-	-	14	14	-	13	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	4	4	-	4	1	4	4	4	-	-	-
2.25	1.25	-	-	-	-	-	10	10	-	10	10	12	12	10	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	3	3	-	3	2	3	3	3	-	-	-
2.50	1.25	-	-	-	-	-	9	9	-	9	11	9	9	9	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	13	13	-	14	-	14	14	14	-	-	-
2.75	1.00	-	-	-	-	-	2	2	-	2	3	2	2	2	-	-	-
2.75	1.25	-	-	-	-	-	8	8	-	10	12	8	8	8	-	-	-
2.75	1.50	-	-	-	-	-	13	13	-	-	-	10	10	13	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	15	15	13	-	-	-
3.00	1.00	-	-	-	-	-	1	1	-	11	5	1	1	1	-	-	-
3.00	1.25	-	-	-	-	-	5	5	-	14	14	5	5	5	-	-	-
3.00	1.50	-	-	-	-	-	9	9	-	-	-	8	8	12	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

C W I N D O W >		<<-----<<												>>----->>											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5								
.50	1.00	1	1				1	1	1	1					1	1	1								
.50	1.25	2	2					5	5	2					3	3	2								
.50	1.50	3	3					9	9	3					6	6	3								
.50	1.75	4	4					2	2	4					2	2	4								
.75	1.00	5						3	3	5															
.75	1.25	6						3	3	6															
.75	1.50	7						3	3	7															
.75	1.75	8						3	3	8															
1.00	1.00	9						4	4	9															
1.00	1.25	10						4	4	10															
1.00	1.50	11						4	4	11															
1.00	1.75	12						4	4	12															
1.25	1.00	13						5	5	13															
1.25	1.25							6	6	14															
1.25	1.50							6	6	15															
1.25	1.75							7	7	16															
1.50	1.00							7	7	17															
1.50	1.25							8	8	18															
1.50	1.50							8	8	19															
1.50	1.75							9	9	20															
1.75	1.00							9	9	21															
1.75	1.25							10	10	22															
1.75	1.50							10	10	23															
1.75	1.75							11	11	24															
2.00	1.00							11	11	25															
2.00	1.25							12	12	26															
2.00	1.50							12	12	27															
2.00	1.75							13	13	28															
2.25	1.00							13	13	29															
2.25	1.25							14	14	30															
2.25	1.50							14	14	31															
2.25	1.75							15	15	32															
2.50	1.00							15	15	33															
2.50	1.25							16	16																
2.50	1.50							17	17																
2.50	1.75							18	18																
2.75	1.00							18	18																
2.75	1.25							19	19																
2.75	1.50							20	20																
2.75	1.75							21	21																
3.00	1.00							21	21																
3.00	1.25							22	22																
3.00	1.50							23	23																
3.00	1.75							24	24																

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

WINDOW >		<<----->>										>>----->>									
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	272.5	315.0	337.5				
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1				
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2				
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3				
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4				
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5				
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6				
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7				
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8				
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9				
1.00	1.25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10				
1.00	1.50	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11				
1.00	1.75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12				
1.25	1.00	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13				
1.25	1.25	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14				
1.25	1.50	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15				
1.25	1.75	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16				
1.50	1.00	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17				
1.50	1.25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18				
1.50	1.50	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19				
1.50	1.75	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20				
1.75	1.00	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21				
1.75	1.25	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22				
1.75	1.50	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23				
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	41	40	41	1	41	1	41	1	41	41	1	1	1
.50	1.25	2	2	42	42	42	42	2	42	2	42	3	42	42	3	2	2
.50	1.50	3	3	43	43	43	43	3	43	24	43	6	43	43	13	3	3
.50	1.75	4	4	44	44	44	44	4	44	34	44	15	44	44	16	5	4
.75	1.00	5	5	33	22	22	35	5	10	3	10	2	35	35	2	4	5
.75	1.25	6	6	37	37	37	38	6	13	4	36	11	38	38	14	6	6
.75	1.50	7	7	39	39	39	39	7	24	25	38	17	39	39	20	7	7
.75	1.75	8	8	40	40	40	40	8	36	35	40	23	40	40	28	8	8
1.00	1.00	9	9	15	11	11	22	9	2	5	9	4	22	26	4	9	9
1.00	1.25	10	11	27	31	31	33	10	11	6	27	16	33	33	15	15	10
1.00	1.50	11	13	35	36	36	36	12	18	26	37	22	36	36	26	20	12
1.00	1.75	12	15	38	38	38	37	13	29	36	39	30	37	37	34	26	13
1.25	1.00	13	10	10	11	8	11	11	3	7	2	5	11	12	5	7	11
1.25	1.25	14	16	21	21	21	20	15	12	8	10	10	28	28	17	17	15
1.25	1.50	15	22	31	33	33	32	17	20	27	26	28	32	32	27	25	17
1.25	1.75	16	25	36	35	35	34	20	28	37	35	34	34	34	37	31	20
1.50	1.00	17	12	7	7	7	7	14	4	9	1	7	7	7	6	9	14
1.50	1.25	18	20	16	16	16	21	18	14	10	11	19	21	23	10	21	19
1.50	1.50	19	26	26	29	29	29	23	23	28	25	29	29	30	29	21	24
1.50	1.75	20	31	34	34	34	31	20	33	30	34	30	31	31	38	35	28
1.75	1.00	21	14	6	6	6	6	16	5	11	3	8	6	6	7	10	16
1.75	1.25	22	24	14	14	15	16	22	15	12	12	20	16	16	19	22	23
1.75	1.50	24	30	23	25	25	26	29	25	29	24	31	26	25	30	32	29
1.75	1.75	25	35	32	32	32	30	32	34	39	33	37	30	27	39	37	33
2.00	1.00	23	17	5	5	5	5	19	6	13	4	9	5	5	8	11	18
2.00	1.25	27	27	13	13	14	13	27	16	14	13	21	13	13	21	23	27
2.00	1.50	28	34	22	23	23	23	33	26	30	23	32	23	21	31	33	32
2.00	1.75	31	38	40	30	30	27	37	35	40	32	40	27	27	40	40	37
2.25	1.00	26	18	4	4	4	4	21	7	15	5	10	4	4	9	12	21
2.25	1.25	30	28	12	12	13	12	30	17	16	14	24	12	11	22	24	30
2.25	1.50	33	36	20	20	20	19	35	27	31	22	33	19	19	32	34	36
2.25	1.75	36	41	28	20	20	25	39	37	41	31	41	25	24	41	41	37
2.50	1.00	29	19	3	3	3	3	24	8	17	6	12	3	3	10	14	22
2.50	1.25	34	27	11	11	12	10	31	19	18	15	25	10	10	23	27	31
2.50	1.50	38	37	19	19	19	17	38	30	32	21	35	17	17	33	36	30
2.50	1.75	40	42	27	27	27	24	42	38	42	30	42	24	22	42	42	42
2.75	1.00	32	21	2	2	2	2	25	9	19	7	13	2	2	11	16	25
2.75	1.25	37	32	9	10	10	9	34	21	20	16	26	9	9	24	28	34
2.75	1.50	41	39	18	18	18	15	40	31	23	20	36	15	15	35	37	40
2.75	1.75	42	43	25	26	26	20	43	37	43	29	43	20	20	43	43	43
3.00	1.00	35	23	1	1	1	1	26	10	21	8	14	1	1	12	17	26
3.00	1.25	39	33	0	9	9	8	36	22	22	17	27	8	8	25	29	35
3.00	1.50	43	40	17	17	17	14	41	32	33	19	37	14	14	36	38	41
3.00	1.75	44	44	24	24	24	18	44	40	44	28	44	18	18	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

W I N D O W >		<<----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	41	41	1	1	37	1	37	1	41	41	1	1	1
.50	1.25	2	2	2	42	42	2	2	38	2	38	4	42	42	11	2	2
.50	1.50	3	3	3	43	43	3	3	39	3	39	13	43	43	13	3	3
.50	1.75	4	4	4	44	44	4	4	40	4	40	15	44	44	16	4	4
.75	1.00	5	5	5	34	26	5	5	41	5	41	2	34	37	2	5	5
.75	1.25	6	6	7	38	37	6	6	42	6	42	14	37	38	14	7	6
.75	1.50	7	7	12	39	39	7	7	43	7	43	10	39	39	20	12	7
.75	1.75	8	8	19	40	40	8	8	44	8	44	27	40	40	27	19	8
1.00	1.00	9	9	6	13	13	9	9	9	9	9	3	21	27	3	6	9
1.00	1.25	10	10	13	33	30	10	10	11	10	17	16	31	33	15	13	10
1.00	1.50	11	12	22	36	35	11	11	22	11	32	26	36	35	26	22	11
1.00	1.75	12	14	29	37	38	13	13	35	12	36	30	38	36	31	29	13
1.25	1.00	13	11	8	8	8	12	12	8	13	8	5	13	18	4	8	12
1.25	1.25	14	15	18	23	22	14	14	10	14	10	17	23	27	17	18	14
1.25	1.50	15	21	28	31	32	16	16	19	15	25	28	32	32	28	28	16
1.25	1.75	16	25	32	35	36	19	19	28	16	35	36	35	34	37	32	17
1.50	1.00	17	13	9	7	7	15	15	1	17	1	6	9	10	5	9	15
1.50	1.25	18	20	20	17	18	18	18	12	18	18	19	16	22	18	20	18
1.50	1.50	19	27	30	28	27	23	23	20	19	26	29	29	28	29	30	23
1.50	1.75	20	32	36	32	34	27	27	29	20	34	38	33	31	38	36	28
1.75	1.00	21	16	10	6	6	17	17	2	21	2	7	6	6	6	10	17
1.75	1.25	22	24	21	15	15	22	22	13	22	13	20	14	16	19	21	22
1.75	1.50	23	31	31	25	23	29	29	21	23	24	31	26	24	30	31	29
1.75	1.75	24	35	39	30	33	30	32	30	24	33	39	30	30	39	39	33
2.00	1.00	25	17	11	5	5	20	20	3	25	3	8	5	5	7	11	20
2.00	1.25	26	26	23	14	14	26	26	14	26	11	21	12	13	21	23	27
2.00	1.50	28	34	33	21	21	33	33	23	27	19	32	20	20	32	33	32
2.00	1.75	29	38	40	27	31	28	37	31	28	28	40	28	26	40	40	37
2.25	1.00	27	18	14	4	4	21	21	4	29	4	9	4	4	8	14	21
2.25	1.25	31	28	24	12	12	30	30	15	30	12	22	11	11	22	24	30
2.25	1.50	33	36	34	20	20	35	35	24	31	20	33	19	17	33	34	36
2.25	1.75	36	41	41	27	27	39	39	32	32	27	41	27	25	41	41	40
2.50	1.00	30	19	15	9	3	24	24	5	33	5	10	3	3	9	15	24
2.50	1.25	34	29	25	11	11	31	31	16	34	14	23	10	9	23	25	31
2.50	1.50	37	37	35	19	19	30	30	25	35	21	34	18	15	34	35	38
2.50	1.75	39	42	42	26	28	42	42	33	36	29	42	25	23	42	42	42
2.75	1.00	32	22	16	2	2	25	25	6	37	6	11	2	2	10	16	23
2.75	1.25	38	30	26	10	10	34	34	17	38	15	24	8	8	24	26	34
2.75	1.50	41	39	37	18	17	40	40	26	39	22	35	17	14	37	37	39
2.75	1.75	42	43	43	24	25	43	43	34	40	30	43	24	21	43	43	43
3.00	1.00	35	23	17	1	1	28	28	7	41	7	12	1	1	12	17	26
3.00	1.25	40	33	27	9	9	36	36	10	42	16	25	7	7	25	27	35
3.00	1.50	43	40	38	16	16	41	41	27	43	23	37	15	12	36	38	41
3.00	1.75	44	44	44	22	24	44	44	36	44	31	44	22	19	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

W I N D O W >		<<-----<<												>>----->>											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	I	O	N	S	247.5	WEST	292.5	315.0	337.5					
.50	1.00	1	1	1	-	-	-	1	-	1	-	-	1	-	-	-	-	1	-	-	1				
.50	1.25	2	2	2	-	-	2	-	-	2	-	-	4	-	-	-	-	2	-	-	2				
.50	1.50	3	3	3	-	-	3	-	-	3	-	-	-	-	-	-	-	3	-	-	3				
.50	1.75	4	4	4	-	-	4	-	-	4	-	-	-	-	-	-	-	4	-	-	4				
.75	1.00	5	5	5	-	-	5	-	-	5	-	-	2	-	-	-	-	2	-	-	-				
.75	1.25	6	6	6	-	-	6	-	-	6	-	-	-	-	-	-	-	-	-	-	-				
.75	1.50	7	7	7	-	-	7	-	-	7	-	-	-	-	-	-	-	-	-	-	-				
.75	1.75	8	8	8	-	-	8	-	-	8	-	-	-	-	-	-	-	-	-	-	-				
1.00	1.00	9	-	-	-	-	-	-	-	9	-	-	3	-	-	-	-	3	-	-	-				
1.00	1.25	10	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-				
1.00	1.50	11	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-				
1.00	1.75	12	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-	-	-				
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-				
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.50	1.00	-	-	-	-	7	-	-	1	-	1	-	-	-	-	-	-	5	-	-	-				
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.50	1.75	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.00	1.00	-	-	-	5	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-				
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.25	1.00	-	-	-	4	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-				
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.50	1.00	-	-	-	3	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-				
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.75	1.00	-	-	-	2	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-				
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
3.00	1.00	-	-	-	1	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-				
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	41	41	1	1	1	33	1	1	41	40	1	1	1
.50	1.25	2	2	2	42	42	12	2	8	31	14	2	42	42	3	2	2
.50	1.50	3	3	3	43	43	15	3	20	32	33	3	43	43	6	3	3
.50	1.75	4	4	4	44	44	25	4	37	44	44	4	44	44	15	4	4
.75	1.00	5	5	5	37	36	2	5	2	20	2	5	34	27	2	5	5
.75	1.25	6	6	6	38	38	13	6	6	19	12	6	38	37	10	6	6
.75	1.50	7	7	7	39	39	24	7	16	30	23	7	39	39	18	7	7
.75	1.75	8	8	8	40	40	30	8	23	43	38	8	40	41	27	8	8
1.00	1.00	9	9	9	30	27	3	9	3	18	3	9	19	14	4	9	9
1.00	1.25	10	10	11	33	33	14	10	11	17	16	10	33	31	16	11	10
1.00	1.50	11	11	13	35	35	26	12	18	29	27	12	36	36	24	13	11
1.00	1.75	12	12	16	36	37	36	13	28	42	42	13	37	38	31	16	12
1.25	1.00	13	13	10	20	16	4	11	4	16	4	11	11	8	5	10	13
1.25	1.25	14	14	15	27	30	16	15	15	14	13	15	27	22	17	15	14
1.25	1.50	15	16	21	32	32	27	17	21	27	24	17	32	33	28	21	16
1.25	1.75	16	17	25	34	34	37	20	31	41	34	20	35	35	37	25	17
1.50	1.00	17	15	12	11	10	5	14	5	15	5	14	7	7	7	12	15
1.50	1.25	18	19	23	23	23	17	18	17	12	15	18	21	18	19	19	19
1.50	1.50	19	21	28	28	29	28	23	26	26	25	23	29	29	26	26	21
1.50	1.75	20	24	31	31	31	38	28	33	40	35	28	31	34	38	31	24
1.75	1.00	21	18	14	8	6	6	16	7	13	6	16	6	6	8	14	18
1.75	1.25	22	22	24	16	17	18	22	19	10	17	22	15	15	20	24	22
1.75	1.50	24	26	29	25	25	29	29	30	25	26	29	25	25	30	29	26
1.75	1.75	25	29	35	29	28	39	32	39	39	36	32	30	32	39	35	29
2.00	1.00	23	20	17	5	5	7	19	9	11	7	19	5	5	5	17	20
2.00	1.25	26	27	27	13	13	19	27	22	8	18	26	13	13	21	27	27
2.00	1.50	28	32	33	21	22	31	33	32	24	28	33	23	21	32	33	32
2.00	1.75	30	34	38	26	26	40	37	40	38	37	37	28	30	40	38	34
2.25	1.00	27	23	18	4	4	8	21	10	9	8	21	4	4	11	18	23
2.25	1.25	31	31	28	10	11	20	30	24	5	19	30	12	12	22	28	31
2.25	1.50	33	35	36	17	19	32	35	34	23	29	35	18	20	36	36	35
2.25	1.75	36	39	41	24	24	41	39	41	37	39	39	26	28	41	41	39
2.50	1.00	29	25	20	3	3	9	24	12	7	9	24	3	3	12	20	25
2.50	1.25	34	33	30	9	9	21	31	25	3	20	31	10	11	23	30	30
2.50	1.50	37	38	37	15	15	33	30	35	22	30	38	17	19	34	37	38
2.50	1.75	39	41	42	22	21	42	42	42	36	40	42	24	26	42	42	41
2.75	1.00	32	28	2	2	2	10	25	13	6	10	25	2	2	13	28	28
2.75	1.25	38	36	32	7	8	22	34	27	2	21	34	9	10	25	36	36
2.75	1.50	41	40	14	14	14	34	40	36	21	31	40	16	17	35	40	40
2.75	1.75	42	43	19	20	20	43	43	43	35	41	43	22	24	43	43	43
3.00	1.00	35	30	1	1	1	11	26	14	4	11	27	1	1	14	30	30
3.00	1.25	40	37	6	6	7	23	36	27	1	22	36	8	9	26	37	37
3.00	1.50	43	42	12	12	12	35	41	38	20	32	41	14	16	36	40	42
3.00	1.75	44	44	18	18	18	44	44	44	34	43	44	20	23	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	41	41	1	1	44	44	44	1	41	41	1	1	1
.50	1.25	2	2	2	42	42	9	2	43	43	43	2	42	42	3	2	2
.50	1.50	3	3	3	43	43	17	3	42	42	42	3	43	43	10	3	3
.50	1.75	4	4	4	44	44	25	4	41	41	41	4	44	44	15	4	4
.75	1.00	5	5	5	37	36	2	5	13	13	13	5	32	30	2	5	5
.75	1.25	6	6	6	38	38	13	6	10	39	10	6	37	37	14	6	6
.75	1.50	7	7	7	39	39	24	7	15	38	18	7	39	39	18	7	7
.75	1.75	8	8	8	40	40	32	8	27	36	33	8	40	40	27	8	8
1.00	1.00	9	9	9	31	29	3	9	9	37	9	9	19	15	4	9	9
1.00	1.25	10	10	10	34	34	14	10	11	35	11	10	31	31	16	10	10
1.00	1.50	11	11	11	35	35	26	11	18	33	22	11	36	35	25	11	11
1.00	1.75	12	12	12	36	36	35	12	27	31	31	12	38	30	30	12	12
1.25	1.00	13	13	13	20	19	4	13	5	34	8	13	12	10	5	13	13
1.25	1.25	14	14	14	29	30	15	14	12	32	12	14	23	22	17	14	14
1.25	1.50	15	15	15	32	32	27	15	20	29	23	15	33	33	28	15	15
1.25	1.75	16	16	16	33	34	37	16	28	26	32	16	35	36	35	16	16
1.50	1.00	17	17	17	10	11	5	17	1	30	1	17	8	7	6	17	17
1.50	1.25	18	18	18	24	23	16	18	14	27	14	18	17	19	19	18	18
1.50	1.50	19	19	19	28	27	28	19	24	24	24	19	28	28	29	19	19
1.50	1.75	20	20	20	30	31	38	20	32	21	36	20	34	34	30	20	20
1.75	1.00	21	21	21	6	7	6	21	2	20	2	21	6	6	7	21	21
1.75	1.25	22	22	22	17	17	10	22	16	23	15	22	14	14	20	22	22
1.75	1.50	23	23	23	25	25	29	23	25	18	25	23	25	24	31	23	23
1.75	1.75	24	24	24	27	28	39	24	35	15	35	24	30	32	39	24	24
2.00	1.00	25	25	25	5	5	7	25	3	25	3	25	5	5	8	25	25
2.00	1.25	26	26	26	13	14	19	26	17	20	16	26	13	13	21	26	26
2.00	1.50	28	28	28	22	21	30	28	26	14	26	28	21	21	32	28	28
2.00	1.75	29	29	29	26	26	40	29	36	10	34	29	29	29	40	29	29
2.25	1.00	27	27	27	4	4	8	27	4	22	4	27	4	4	9	27	27
2.25	1.25	31	30	30	11	10	20	30	19	16	17	30	11	12	22	30	30
2.25	1.50	32	35	36	18	16	31	35	30	11	27	35	20	20	33	35	35
2.25	1.75	35	39	41	23	24	41	39	37	6	37	39	27	27	41	39	39
2.50	1.00	30	27	21	3	3	10	24	6	19	5	23	3	3	11	27	27
2.50	1.25	34	33	30	7	7	21	31	21	12	17	31	10	11	23	33	33
2.50	1.50	37	38	37	15	15	33	38	31	8	28	38	18	18	34	38	38
2.50	1.75	39	41	42	21	22	42	42	38	4	30	42	26	26	42	41	41
2.75	1.00	33	28	2	2	2	11	25	7	17	6	25	2	2	12	28	28
2.75	1.25	38	36	8	8	8	22	34	22	9	20	34	9	9	24	36	36
2.75	1.50	41	40	14	14	13	34	40	33	5	29	40	16	17	36	40	40
2.75	1.75	42	43	17	17	20	43	43	39	2	37	43	24	25	43	43	43
3.00	1.00	36	31	1	1	1	12	28	8	13	7	26	1	1	13	31	31
3.00	1.25	40	37	7	6	6	23	36	23	7	21	36	7	8	26	37	37
3.00	1.50	43	42	12	12	12	35	41	34	3	30	41	15	16	37	42	42
3.00	1.75	44	44	16	16	10	44	44	40	1	40	44	22	23	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

C W I N D O W >		<<----->>----->>																		
Width-M	Height-M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	I	O	N	S	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00						2			10	1							2		
.75	1.25																			
.75	1.50																			
.75	1.75																			
1.00	1.00										2									
1.00	1.25																			
1.00	1.50																			
1.00	1.75																			
1.25	1.00																			
1.25	1.25																11			
1.25	1.50																			
1.25	1.75																			
1.50	1.00			10	12					7				13						
1.50	1.25																			
1.50	1.50																			
1.50	1.75																			
1.75	1.00			7	8					6				8						
1.75	1.25																			
1.75	1.50																			
1.75	1.75																			
2.00	1.00					5														
2.00	1.25			10	14															
2.00	1.50																			
2.00	1.75																			
2.25	1.00					4				4										
2.25	1.25																			
2.25	1.50			11	10															
2.25	1.75																			
2.50	1.00					3				3										
2.50	1.25					9														
2.50	1.50																			
2.50	1.75					15														
2.75	1.00					2				2										
2.75	1.25					8														
2.75	1.50																			
2.75	1.75					13														
3.00	1.00					1				1										
3.00	1.25					6														
3.00	1.50					12														

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

C W I N D O W >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1			1	1	1		1	1			1	1	1
.50	1.25	2	2	2			2	2		2	2	2			2	2	2
.50	1.50	3	3	3			3	3		3	3	3			3	3	3
.50	1.75	4	4	4			4	4		4	4	4			4	4	4
.75	1.00	5					2								2		
.75	1.25	6															
.75	1.50	7															
.75	1.75	8					3										
1.00	1.00																
1.00	1.25																
1.00	1.50																
1.00	1.75						4										
1.25	1.00																
1.25	1.25																
1.25	1.50																
1.25	1.75																
1.50	1.00				11	10											
1.50	1.25																
1.50	1.50																
1.50	1.75																
1.75	1.00				8	6											
1.75	1.25																
1.75	1.50																
1.75	1.75																
2.00	1.00				5	5											
2.00	1.25				13												
2.00	1.50																
2.00	1.75					4											
2.25	1.00				10												
2.25	1.25																
2.25	1.50																
2.25	1.75																
2.50	1.00				9	9											
2.50	1.25				9												
2.50	1.50																
2.50	1.75																
2.75	1.00				2	2											
2.75	1.25				7	8											
2.75	1.50				14												
2.75	1.75																
3.00	1.00				1	1											
3.00	1.25				6	7											
3.00	1.50				12												
3.00	1.75																

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

C W I N D O W >		<<-----<<												>>----->>			
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1.00	1.50	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1.00	1.75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1.25	1.00						4										
1.25	1.25																
1.25	1.50																
1.25	1.75																
1.50	1.00								1		1		8				
1.50	1.25																
1.50	1.50																
1.50	1.75																
1.75	1.00																
1.75	1.25																
1.75	1.50																
1.75	1.75																
2.00	1.00																
2.00	1.25																
2.00	1.50																
2.00	1.75																
2.25	1.00																
2.25	1.25																
2.25	1.50																
2.25	1.75																
2.50	1.00																
2.50	1.25																
2.50	1.50																
2.50	1.75																
2.75	1.00																
2.75	1.25																
2.75	1.50																
2.75	1.75																
3.00	1.00																
3.00	1.25																
3.00	1.50																
3.00	1.75																

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

C W I N D O W >		D O R I E N T A T I O N S												W E S T			
		<<-----			----->>			----->>			<<-----						
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	1	1	1	41	1	1	1
.50	1.25	2	2	2	12	2	2	2	4	22	4	2	3	42	3	2	2
.50	1.50	3	3	3	23	3	3	3	12	23	12	3	6	43	5	3	3
.50	1.75	4	4	4	26	4	4	4	18	34	18	4	15	44	11	4	4
.75	1.00	5	5	5	2	5	5	5	2	10	2	5	2	36	2	5	5
.75	1.25	6	6	6	13	6	6	6	6	12	6	6	9	38	8	6	6
.75	1.50	7	7	7	24	7	7	7	15	24	15	7	17	39	17	7	7
.75	1.75	8	8	8	35	8	8	8	19	35	19	8	24	40	21	8	8
1.00	1.00	9	9	9	3	9	9	9	10	35	10	9	24	40	21	9	9
1.00	1.25	10	10	10	14	10	10	10	11	13	11	10	16	33	16	10	10
1.00	1.50	11	11	11	25	11	11	11	15	25	15	11	22	35	22	11	11
1.00	1.75	12	12	12	36	12	12	12	20	36	20	12	30	37	29	12	12
1.25	1.00	13	13	13	4	13	13	13	9	8	5	13	5	19	6	13	13
1.25	1.25	14	14	14	15	14	14	14	16	14	17	14	10	20	18	14	14
1.25	1.50	15	15	15	27	15	15	15	23	26	26	15	23	32	28	15	15
1.25	1.75	16	16	16	37	16	16	16	27	37	33	16	34	34	33	16	16
1.50	1.00	17	17	17	5	17	17	17	12	7	7	17	7	11	7	17	17
1.50	1.25	18	18	18	16	18	18	18	21	15	20	18	19	29	19	18	18
1.50	1.50	19	19	19	28	19	19	19	26	27	30	19	29	29	30	19	19
1.50	1.75	20	20	20	30	20	20	20	32	30	36	20	30	31	30	20	20
1.75	1.00	19	17	14	6	14	14	14	13	6	8	13	8	7	9	13	16
1.75	1.25	22	22	23	17	24	24	24	24	16	21	24	20	16	20	24	22
1.75	1.50	24	27	29	29	29	29	29	30	20	31	31	31	25	31	24	22
1.75	1.75	26	31	35	39	39	35	33	36	39	38	36	39	30	39	36	29
2.00	1.00	23	20	17	7	16	16	10	14	5	9	14	10	5	10	14	19
2.00	1.25	27	26	27	10	26	26	27	25	17	23	25	21	13	23	25	27
2.00	1.50	29	32	33	30	34	34	32	33	29	32	34	32	22	32	34	32
2.00	1.75	32	36	38	40	38	38	37	38	40	40	39	40	26	40	40	37
2.25	1.00	25	23	18	12	18	18	20	17	4	10	17	11	4	12	15	20
2.25	1.25	30	30	20	24	20	20	30	28	18	24	27	23	10	24	26	30
2.25	1.50	35	35	36	34	36	36	36	35	30	34	35	33	18	34	35	36
2.25	1.75	35	39	41	41	41	41	40	40	41	41	41	41	24	41	41	40
2.50	1.00	28	25	21	13	20	20	22	10	3	11	18	12	3	13	18	23
2.50	1.25	34	33	31	25	30	30	31	29	19	25	29	25	9	25	29	31
2.50	1.50	38	38	37	35	37	37	30	37	31	35	37	35	15	37	37	38
2.50	1.75	40	41	42	42	42	42	42	42	42	42	42	42	21	42	42	42
2.75	1.00	31	28	22	14	10	22	25	19	2	13	19	13	2	14	19	25
2.75	1.25	37	34	32	26	21	32	34	31	20	27	30	26	8	26	30	33
2.75	1.50	41	40	39	36	33	39	39	39	32	37	38	36	14	36	38	39
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	20	43	43	43
3.00	1.00	33	29	24	15	11	23	26	22	1	16	20	14	1	15	20	26
3.00	1.25	39	37	34	27	22	33	35	34	21	20	32	27	6	27	32	35
3.00	1.50	42	42	40	37	34	40	41	41	33	39	40	37	12	37	39	41

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

< WINDOW > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	33	1	1	1	41	1	1	1
.50	1.25	2	2	3	12	12	2	2	3	31	4	2	3	42	3	2	2
.50	1.50	3	3	5	23	23	3	3	4	32	11	3	8	43	5	3	3
.50	1.75	4	4	11	29	29	4	4	8	44	19	4	15	44	11	4	4
.75	1.00	5	5	2	2	2	5	5	2	20	2	5	2	35	2	5	5
.75	1.25	6	6	8	13	13	6	6	6	17	8	6	11	38	8	6	6
.75	1.50	7	7	17	24	24	8	7	10	30	17	8	18	39	17	7	7
.75	1.75	8	8	24	35	35	8	8	14	43	26	10	26	40	24	8	8
1.00	1.00	9	9	4	3	3	7	9	5	18	3	7	4	26	4	6	9
1.00	1.25	10	10	16	14	14	11	10	11	17	15	11	16	33	16	11	10
1.00	1.50	11	11	22	25	25	13	12	18	29	22	14	23	36	22	20	12
1.00	1.75	12	12	30	36	36	17	13	23	42	32	19	30	37	30	22	13
1.25	1.00	13	13	6	4	4	10	11	7	16	5	9	5	15	6	8	11
1.25	1.25	14	14	18	15	15	15	15	16	14	16	16	17	28	18	17	15
1.25	1.50	15	15	28	26	26	21	17	22	27	24	23	28	32	24	24	17
1.25	1.75	16	16	35	37	37	25	20	28	41	33	26	35	34	29	29	20
1.50	1.00	17	17	7	5	5	12	14	9	15	6	12	6	9	7	10	14
1.50	1.25	18	18	19	16	16	19	10	21	12	18	21	19	22	19	21	19
1.50	1.50	19	19	29	27	27	27	23	26	26	29	27	29	29	27	27	24
1.50	1.75	20	20	38	38	38	31	28	33	40	37	32	38	31	34	34	28
1.75	1.00	21	18	9	6	6	14	16	12	13	7	13	7	6	9	13	16
1.75	1.25	22	22	20	17	17	24	22	24	10	20	24	20	17	20	23	23
1.75	1.50	24	24	31	28	28	30	29	31	25	30	30	31	25	31	32	29
1.75	1.75	25	25	39	39	39	35	32	36	39	39	36	39	30	37	37	33
2.00	1.00	23	20	10	7	7	16	19	13	11	9	15	9	5	10	14	18
2.00	1.25	26	27	21	18	18	26	27	25	8	21	25	21	13	21	25	27
2.00	1.50	28	32	32	30	30	34	33	34	24	40	34	32	21	33	33	32
2.00	1.75	30	34	40	40	40	38	37	40	38	40	38	40	27	40	40	37
2.25	1.00	27	23	12	8	8	18	21	15	9	10	17	10	4	12	15	21
2.25	1.25	31	31	23	19	19	28	30	27	5	23	28	22	11	23	26	30
2.25	1.50	33	35	33	31	31	36	35	35	23	34	35	33	18	35	35	36
2.25	1.75	36	37	41	41	41	41	39	41	37	41	41	41	24	41	41	39
2.50	1.00	29	25	13	9	9	20	24	17	7	12	18	12	3	13	16	22
2.50	1.25	34	33	25	20	20	29	31	29	3	25	29	24	10	25	28	31
2.50	1.50	37	38	34	32	32	37	38	37	22	35	37	34	16	36	36	38
2.50	1.75	39	41	42	42	42	42	42	42	36	42	42	42	23	42	42	42
2.75	1.00	32	28	14	10	10	22	25	19	6	13	20	13	2	14	18	25
2.75	1.25	38	36	26	21	21	32	34	30	2	27	31	25	8	26	30	34
2.75	1.50	41	40	36	33	33	39	40	38	21	36	39	36	14	36	38	40
2.75	1.75	42	43	43	43	43	43	43	43	35	43	43	43	20	43	43	43
3.00	1.00	35	30	15	11	11	23	26	20	4	14	22	14	1	15	19	26
3.00	1.25	40	37	27	22	22	33	36	32	1	20	33	27	7	27	31	35
3.00	1.50	43	42	37	34	34	40	41	39	20	38	40	37	12	39	39	41
3.00	1.75	44	44	44	44	44	44	44	44	34	44	44	44	19	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	10	44	28	1	1	41	1	1	1
.50	1.25	2	2	2	3	12	2	2	16	43	20	2	3	42	3	2	2
.50	1.50	3	3	3	6	23	3	3	13	42	16	3	6	43	6	3	3
.50	1.75	4	4	4	14	34	4	4	12	41	15	4	15	44	14	4	4
.75	1.00	5	5	5	2	2	5	5	11	40	12	5	2	36	5	5	5
.75	1.25	6	6	6	11	13	6	6	10	39	9	6	9	38	11	6	6
.75	1.50	7	7	7	17	24	7	7	15	38	14	7	18	39	17	7	7
.75	1.75	8	8	8	22	35	8	8	21	36	27	8	27	40	22	8	8
1.00	1.00	9	9	9	4	3	9	9	7	37	10	9	4	27	4	9	9
1.00	1.25	10	10	10	16	14	10	10	14	35	11	10	16	33	16	10	10
1.00	1.50	11	11	11	23	25	11	11	20	33	21	11	25	35	23	11	11
1.00	1.75	12	12	12	30	36	12	12	26	31	31	12	31	37	30	12	12
1.25	1.00	13	13	13	5	4	13	13	4	34	6	13	5	17	5	13	13
1.25	1.25	14	14	14	18	15	14	14	17	32	13	14	17	28	18	14	14
1.25	1.50	15	15	15	28	26	15	15	23	29	24	15	28	32	28	15	15
1.25	1.75	16	16	16	34	37	16	16	31	26	33	16	36	34	34	16	16
1.50	1.00	17	17	17	7	5	17	17	1	30	1	17	7	10	7	17	17
1.50	1.25	18	18	18	17	16	18	18	19	27	17	18	19	23	19	18	18
1.50	1.50	19	19	19	29	27	19	19	28	24	29	19	29	29	29	19	19
1.50	1.75	20	20	20	38	38	20	20	34	21	38	20	38	31	34	20	20
1.75	1.00	21	21	21	8	6	21	21	2	28	2	21	8	6	21	21	21
1.75	1.25	22	22	22	20	17	22	22	22	23	10	22	20	16	22	22	22
1.75	1.50	23	23	23	31	28	23	23	32	18	30	23	30	25	31	23	23
1.75	1.75	24	24	24	39	39	24	24	37	15	39	24	39	30	37	24	24
2.00	1.00	25	25	25	9	7	25	25	5	25	3	25	9	5	25	25	25
2.00	1.25	26	26	26	21	18	26	26	24	20	17	26	21	13	26	26	26
2.00	1.50	28	28	28	32	29	28	28	33	14	32	28	32	21	33	28	28
2.00	1.75	29	29	29	40	40	29	29	37	10	40	29	40	26	40	29	29
2.25	1.00	27	27	27	10	8	27	27	6	22	4	27	10	4	27	27	27
2.25	1.25	31	31	31	24	19	31	31	25	16	22	31	24	11	26	31	31
2.25	1.50	32	32	32	33	30	32	32	35	11	34	32	33	18	35	32	32
2.25	1.75	35	35	35	41	41	35	35	41	5	41	35	40	24	41	35	35
2.50	1.00	30	30	30	12	9	30	30	8	19	5	30	12	3	30	30	30
2.50	1.25	34	34	34	25	20	34	34	27	12	23	34	25	9	27	34	34
2.50	1.50	37	37	37	35	31	37	37	36	8	35	37	34	15	36	37	37
2.50	1.75	39	39	39	42	42	39	39	42	4	42	39	42	22	42	39	39
2.75	1.00	33	33	33	13	10	33	33	9	17	7	33	13	2	33	33	33
2.75	1.25	38	38	38	26	21	38	38	27	9	25	38	26	8	28	38	38
2.75	1.50	41	41	41	36	32	41	41	38	5	36	41	35	14	38	41	41
2.75	1.75	42	42	42	43	43	42	42	43	2	43	42	43	20	43	42	42
3.00	1.00	36	36	36	15	11	36	36	10	13	8	36	15	1	36	36	36
3.00	1.25	40	40	40	27	22	40	40	30	7	26	40	27	7	30	40	40
3.00	1.50	43	43	43	37	33	43	43	40	3	37	43	37	12	39	43	43
3.00	1.75	44	44	44	44	44	44	44	44	1	44	44	44	17	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

WINDOW >		<<----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	1	1	1	-	1	1	1
.50	1.25	2	2	-	-	-	2	2	-	-	-	2	-	-	-	2	2
.50	1.50	3	3	-	-	-	3	3	-	-	-	3	-	-	-	3	3
.50	1.75	4	4	-	-	-	4	4	-	-	-	-	-	-	-	-	4
.75	1.00	-	-	2	2	2	-	-	-	10	2	-	2	-	-	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	3	-	-	-	9	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	4	-	-	-	8	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	5	-	-	-	7	-	-	-	11	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	5	-	-	-	5	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	13	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	4	-	-	-	4	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	10	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

< WINDOW >		-----<<----->>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	1	-	1	1	1
.50	1.25	2	2	2	3	2	2	2	-	-	-	2	-	-	3	2	2
.50	1.50	3	3	-	-	3	3	3	-	-	-	3	-	-	-	3	3
.50	1.75	4	4	-	-	-	4	4	-	-	-	4	-	-	4	4	4
.75	1.00	5	-	2	-	2	-	-	-	-	-	-	2	-	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

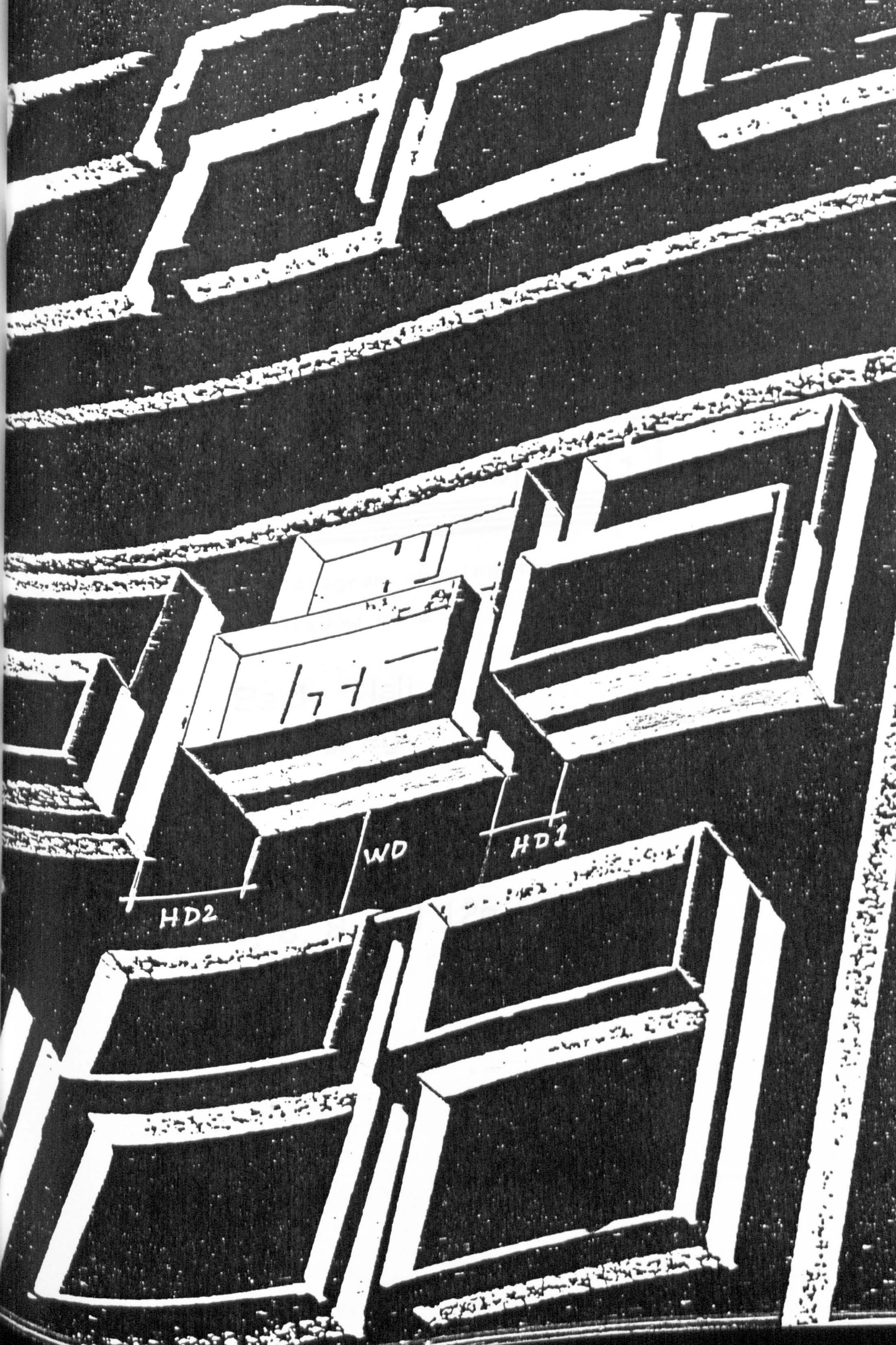
TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

C U I N D O W >		<<-----<<												>>----->>											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5								
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	1	-	1	1	1								
.50	1.25	2	2	3	-	2	2	2	-	-	-	2	3	-	3	2	2								
.50	1.50	3	3	4	-	3	3	3	-	-	-	3	4	-	4	3	3								
.50	1.75	4	4	-	-	4	4	4	-	-	-	4	-	-	-	4	4								
.75	1.00	5	-	2	-	-	-	5	-	-	-	-	2	-	2	-	-								
.75	1.25	6	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-								
.75	1.50	7	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-								
.75	1.75	9	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-								
1.00	1.00	9	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-								
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.25	1.00	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-								
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.50	1.00	-	-	-	-	-	-	-	1	-	1	-	-	10	-	-	-								
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-								
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	11	-	-	-								
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	3	9	-								
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.50	1.75	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-								
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
2.75	1.75	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-								
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	1	7	-								
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-								
3.00	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-								
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-								

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

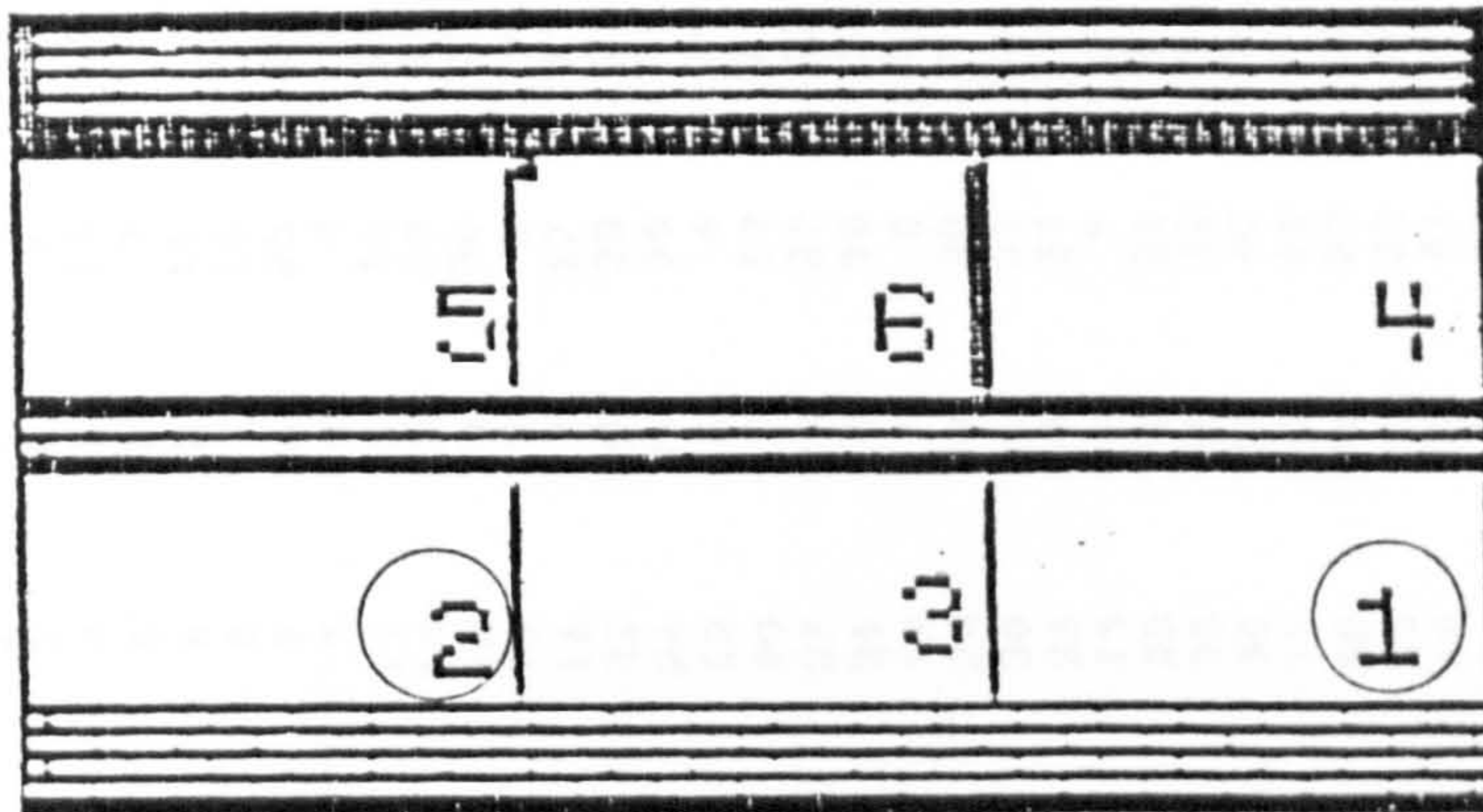
WALL THICKNESS = 0.36 M



HD2

WD

HD1



Key diagram showing the location of window data



Back Wall
2 Storey

Interhouse Distance

4, 6, 8 and 12m.

<---<< < W I N D O W > >>--->

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	11	1	17	44	17	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	22	2	14	43	14	4	2	2	2	2	2
.50	1.50	3	3	3	6	23	33	13	10	41	13	13	6	3	3	3	3
.50	1.75	4	4	4	14	34	44	16	8	40	11	15	16	4	4	4	4
.75	1.00	5	5	5	2	2	10	3	11	42	12	2	3	5	5	5	5
.75	1.25	6	6	7	11	13	21	14	2	39	2	14	8	7	7	6	6
.75	1.50	7	7	12	17	24	32	25	16	37	16	18	18	12	12	7	7
.75	1.75	8	8	19	22	35	43	27	19	34	19	27	27	19	19	9	9
1.00	1.00	9	9	6	4	3	9	4	6	38	6	3	4	4	6	6	9
1.00	1.25	10	10	13	16	14	20	15	15	35	15	16	15	11	12	12	10
1.00	1.50	11	12	22	23	25	31	26	20	32	21	26	26	13	22	22	12
1.00	1.75	12	14	29	30	36	42	36	25	27	25	30	31	10	30	27	14
1.25	1.00	13	11	8	5	4	8	5	4	36	4	5	5	9	5	8	11
1.25	1.25	14	15	18	18	15	19	17	18	31	18	17	17	15	17	18	15
1.25	1.50	15	21	28	28	26	30	28	23	27	23	28	28	21	28	28	21
1.25	1.75	16	25	32	34	37	41	37	29	23	30	36	36	27	32	32	25
1.50	1.00	17	13	9	7	5	7	6	1	33	1	6	7	12	6	9	13
1.50	1.25	18	20	20	19	16	18	18	21	28	20	19	19	19	19	20	20
1.50	1.50	19	27	30	29	27	29	29	27	22	28	29	29	26	29	30	27
1.50	1.75	20	32	36	38	38	40	44	34	17	34	38	38	33	36	36	32
1.75	1.00	21	16	10	8	6	6	7	3	30	3	7	9	14	7	10	16
1.75	1.25	22	24	21	20	17	17	19	22	24	22	20	20	24	20	21	24
1.75	1.50	23	31	31	31	28	28	30	32	18	32	31	30	30	31	31	31
1.75	1.75	24	35	39	39	39	39	43	36	12	37	39	39	36	39	39	35
2.00	1.00	25	17	11	9	7	5	8	5	26	5	8	10	16	11	17	17
2.00	1.25	26	26	23	21	18	16	20	24	20	24	21	21	25	21	23	26
2.00	1.50	28	34	33	32	29	27	31	33	14	33	32	32	34	33	33	34
2.00	1.75	29	38	40	40	40	42	42	39	9	39	40	40	40	40	40	38
2.25	1.00	27	18	14	10	8	4	9	7	25	7	9	11	17	9	14	18
2.25	1.25	31	28	24	24	19	15	21	26	16	26	22	22	28	22	24	28
2.25	1.50	33	36	34	33	30	26	32	35	10	35	33	33	35	34	34	36
2.25	1.75	36	41	41	41	41	37	41	41	5	41	41	41	41	41	41	41
2.50	1.00	30	19	15	12	9	3	10	9	21	8	10	12	20	11	15	19
2.50	1.25	34	29	25	25	20	14	22	28	13	27	23	23	29	23	25	29
2.50	1.50	37	37	35	35	31	25	33	37	7	36	34	34	37	35	35	37
2.50	1.75	39	42	42	42	42	36	40	42	4	42	42	42	42	42	42	42
2.75	1.00	32	22	16	13	10	2	11	12	19	9	11	13	22	12	16	22
2.75	1.25	38	30	26	26	21	13	23	30	11	27	24	24	31	24	26	30
2.75	1.50	41	39	37	36	32	24	34	38	5	38	35	35	38	36	37	39
2.75	1.75	42	43	43	43	43	35	37	43	2	43	43	43	43	43	43	43
3.00	1.00	35	23	17	15	11	1	12	13	15	10	12	14	23	13	17	23
3.00	1.25	40	33	27	27	22	12	24	31	8	31	25	25	32	26	27	33
3.00	1.50	43	40	38	37	33	23	35	40	3	40	37	37	39	37	38	40
3.00	1.75	44	44	44	44	44	34	38	44	1	44	44	44	44	44	44	44

>>--->

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< WINDOW >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	-	-	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	-	-	-	-	-	-	-	-	-	-	2	-	2	2
.50	1.50	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3
.50	1.75	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	4
.75	1.00	-	-	2	2	2	10	10	-	2	-	2	2	-	2	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	3	9	9	-	3	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	4	8	8	-	4	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	5	7	7	-	5	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	6	6	-	6	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	5	5	-	7	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	4	4	-	8	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	3	3	-	9	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	2	2	-	10	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	1	1	-	11	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

<<-----<< < W I N D O W > ----->>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	11	1	1	-	1	1	1	1	1	1	1
.50	1.25	2	2	3	3	-	-	-	-	-	-	-	-	2	2	2	2
.50	1.50	3	3	-	-	-	-	-	-	-	-	-	-	-	3	3	3
.50	1.75	4	4	2	2	10	-	-	-	-	2	2	2	-	4	4	4
.75	1.00	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	3	9	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	4	8	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	5	7	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	6	6	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	7	5	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	8	4	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	9	3	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	10	2	-	-	3	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	11	1	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

WINDOW		ORIENTATION															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	11	1	-	-	-	1	1	1	1	1	1
.50	1.25	2	2	2	3	-	-	-	-	-	-	4	2	2	3	2	2
.50	1.50	3	3	-	-	-	-	-	-	-	-	-	-	3	-	3	3
.50	1.75	4	4	-	-	-	-	-	-	-	-	-	-	-	-	4	4
.75	1.00	5	5	2	2	2	10	-	-	-	-	2	3	-	2	5	5
.75	1.25	6	6	-	-	-	-	-	-	-	-	-	-	-	-	6	6
.75	1.50	7	7	-	-	-	-	-	-	-	-	-	-	-	-	7	7
.75	1.75	8	8	-	-	-	-	-	-	-	-	-	-	-	-	8	8
1.00	1.00	9	-	-	-	3	9	-	-	-	-	3	-	-	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	4	8	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	7	-	1	-	1	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	2	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

C U I N D O W >		O R I E N T A T I O N S												>>			
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	12	2	2	2	2	2	12	12	2	2	2
.50	1.50	3	3	6	23	15	15	4	4	24	4	3	15	23	3	3	3
.50	1.75	4	4	15	31	2	25	5	6	34	6	5	15	31	4	4	4
.75	1.00	5	5	2	2	2	2	3	3	3	3	4	2	2	5	5	5
.75	1.25	6	6	10	17	10	13	7	7	4	7	7	13	17	7	7	6
.75	1.50	7	7	18	24	18	24	9	9	25	9	11	24	24	9	9	7
.75	1.75	8	8	27	35	27	30	13	13	35	13	18	30	35	12	12	8
1.00	1.00	9	9	4	3	4	3	5	5	5	5	6	3	3	6	9	9
1.00	1.25	10	11	16	14	16	14	11	11	6	11	13	14	14	11	11	10
1.00	1.50	11	13	24	25	24	26	17	17	26	17	20	26	25	20	20	12
1.00	1.75	12	15	31	36	31	36	22	22	36	22	25	36	36	22	22	13
1.25	1.00	13	10	5	4	5	4	8	8	7	8	8	4	4	8	11	11
1.25	1.25	14	16	17	15	17	16	15	15	8	15	19	16	15	17	17	15
1.25	1.50	15	22	28	26	28	27	23	23	27	23	24	27	26	24	24	17
1.25	1.75	16	25	37	37	37	37	27	27	37	27	31	37	37	28	29	20
1.50	1.00	17	12	7	5	7	5	10	10	9	10	9	5	5	7	10	14
1.50	1.25	18	20	19	16	19	17	21	21	10	21	21	17	16	17	21	19
1.50	1.50	19	26	29	27	29	28	26	26	28	26	29	28	27	29	27	24
1.50	1.75	20	31	38	30	38	38	33	33	30	33	34	38	38	34	34	28
1.75	1.00	21	14	8	6	8	6	12	12	11	12	10	6	6	13	16	16
1.75	1.25	22	24	20	17	20	18	24	24	12	24	22	18	17	20	20	23
1.75	1.50	24	30	30	20	30	29	22	22	12	24	32	29	28	32	32	29
1.75	1.75	25	35	37	39	37	37	36	36	37	36	38	37	37	37	37	33
2.00	1.00	23	17	9	7	9	7	14	14	13	14	12	7	7	14	18	18
2.00	1.25	26	27	21	10	21	19	25	25	14	25	23	19	18	25	25	27
2.00	1.50	28	34	32	29	32	31	34	34	30	34	33	31	29	33	33	32
2.00	1.75	30	38	40	40	40	40	39	39	40	39	40	40	40	40	40	37
2.25	1.00	27	18	11	8	11	8	16	16	15	16	14	8	8	15	21	21
2.25	1.25	31	28	22	19	22	20	28	28	16	28	26	20	19	26	26	30
2.25	1.50	33	36	33	30	33	32	35	35	31	35	35	32	30	35	35	36
2.25	1.75	36	41	41	41	41	41	41	41	41	41	41	41	41	41	41	39
2.50	1.00	29	19	12	9	12	9	18	18	17	18	15	9	9	16	22	22
2.50	1.25	34	29	23	20	23	21	29	29	10	29	27	21	20	29	28	31
2.50	1.50	37	37	34	32	34	33	37	37	32	37	36	33	32	36	36	38
2.50	1.75	39	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	32	21	13	10	13	10	19	19	19	19	16	10	10	18	25	25
2.75	1.25	38	28	25	21	25	22	31	31	20	31	28	22	21	30	30	34
2.75	1.50	41	39	35	33	35	34	38	38	43	38	37	34	33	38	38	40
2.75	1.75	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	35	23	14	11	14	11	20	20	21	20	17	11	11	19	26	26
3.00	1.25	40	33	26	22	26	23	32	32	22	32	30	23	22	31	31	35
3.00	1.50	43	40	36	34	36	35	40	40	33	40	39	35	34	36	36	41
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

C U I N D O W >		<<----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	8	8	8	8	8	8	8	8	8	8	8
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	9	9	9	9	9	9	9	9	9	9	9	9
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	11	11	11	11	11	11	11	11	11	11	11	11
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

WINDOW		ORIENTATION											RANK				
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.50	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1.00	1.50	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1.00	1.75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1.25	1.00	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
1.25	1.25	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1.25	1.50	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
1.25	1.75	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
1.50	1.00	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
1.50	1.25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
1.50	1.50	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1.50	1.75	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1.75	1.00	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
1.75	1.25	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
1.75	1.50	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
1.75	1.75	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
2.00	1.00	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2.00	1.25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2.00	1.50	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
2.00	1.75	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
2.25	1.00	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
2.25	1.25	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
2.25	1.50	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2.25	1.75	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2.50	1.00	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2.50	1.25	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2.50	1.50	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
2.50	1.75	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
2.75	1.00	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2.75	1.25	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
2.75	1.50	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
2.75	1.75	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
3.00	1.00	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
3.00	1.25	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
3.00	1.50	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

Width.M	Height.M	O R I E N T A T I O N S															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.50	3	3	3	4	4	4	4	4	4	4	4	4	4	4	4	4
.50	1.75	4	4	4	11	11	11	11	11	11	11	11	11	11	11	11	11
.75	1.00	5	5	5	2	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.25	6	6	6	8	8	8	8	8	8	8	8	8	8	8	8	8
.75	1.50	7	7	7	17	17	17	17	17	17	17	17	17	17	17	17	17
.75	1.75	8	8	8	21	21	21	21	21	21	21	21	21	21	21	21	21
1.00	1.00	9	9	9	4	4	4	4	4	4	4	4	4	4	4	4	4
1.00	1.25	10	10	10	16	16	16	16	16	16	16	16	16	16	16	16	16
1.00	1.50	11	11	11	22	22	22	22	22	22	22	22	22	22	22	22	22
1.00	1.75	12	12	12	27	27	27	27	27	27	27	27	27	27	27	27	27
1.25	1.00	13	13	13	6	6	6	6	6	6	6	6	6	6	6	6	6
1.25	1.25	14	14	14	18	18	18	18	18	18	18	18	18	18	18	18	18
1.25	1.50	15	15	15	28	28	28	28	28	28	28	28	28	28	28	28	28
1.25	1.75	17	17	17	33	33	33	33	33	33	33	33	33	33	33	33	33
1.50	1.00	16	16	16	7	7	7	7	7	7	7	7	7	7	7	7	7
1.50	1.25	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1.50	1.50	20	20	20	30	30	30	30	30	30	30	30	30	30	30	30	30
1.50	1.75	23	23	23	30	30	30	30	30	30	30	30	30	30	30	30	30
1.75	1.00	18	18	18	9	9	9	9	9	9	9	9	9	9	9	9	9
1.75	1.25	22	22	22	20	20	20	20	20	20	20	20	20	20	20	20	20
1.75	1.50	26	26	26	31	31	31	31	31	31	31	31	31	31	31	31	31
1.75	1.75	30	30	30	39	39	39	39	39	39	39	39	39	39	39	39	39
2.00	1.00	21	19	17	10	7	7	7	7	7	7	7	7	7	7	7	7
2.00	1.25	27	27	27	10	10	10	10	10	10	10	10	10	10	10	10	10
2.00	1.50	32	32	32	30	30	30	30	30	30	30	30	30	30	30	30	30
2.00	1.75	34	37	38	40	40	40	40	40	40	40	40	40	40	40	40	40
2.25	1.00	24	20	18	12	8	8	8	8	8	8	8	8	8	8	8	8
2.25	1.25	31	30	28	24	19	17	16	15	14	13	12	11	10	9	8	7
2.25	1.50	35	36	36	34	33	33	33	33	33	33	33	33	33	33	33	33
2.25	1.75	39	40	41	41	41	41	41	41	41	41	41	41	41	41	41	41
2.50	1.00	25	23	21	13	9	9	9	9	9	9	9	9	9	9	9	9
2.50	1.25	33	31	31	25	20	18	17	16	15	14	13	12	11	10	9	8
2.50	1.50	38	38	37	35	32	32	32	32	32	32	32	32	32	32	32	32
2.50	1.75	41	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	28	22	22	14	10	10	10	10	10	10	10	10	10	10	10	10
2.75	1.25	36	32	32	26	21	21	21	21	21	21	21	21	21	21	21	21
2.75	1.50	40	39	39	36	36	36	36	36	36	36	36	36	36	36	36	36
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	29	24	24	15	11	11	11	11	11	11	11	11	11	11	11	11
3.00	1.25	37	34	34	27	22	22	22	22	22	22	22	22	22	22	22	22
3.00	1.50	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

Width.M	Height.M	W I N D O W >															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
1.00	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.25	1.25	2	2	2	3	3	3	3	4	4	4	4	3	3	3	2	2
1.50	1.50	3	3	3	5	5	5	6	8	8	8	8	8	8	5	3	3
1.75	1.75	4	4	4	11	11	11	11	18	18	18	15	15	11	4	4	4
1.00	1.00	5	5	5	2	2	2	2	2	2	2	2	2	2	2	2	2
1.25	1.25	6	6	6	3	3	3	3	6	6	6	6	6	6	6	6	6
1.50	1.50	7	7	7	3	3	3	3	12	12	12	12	12	12	12	12	12
1.75	1.75	8	8	8	4	4	4	4	21	21	21	21	21	21	21	21	21
1.00	1.00	9	9	9	4	4	4	4	3	3	3	3	3	3	3	3	3
1.25	1.25	10	10	10	6	6	6	6	10	10	10	10	10	10	10	10	10
1.50	1.50	11	11	11	6	6	6	6	13	13	13	13	13	13	13	13	13
1.75	1.75	12	12	12	11	11	11	11	19	19	19	19	19	19	19	19	19
1.00	1.00	13	13	13	5	5	5	5	5	5	5	5	5	5	5	5	5
1.25	1.25	14	14	14	10	10	10	10	16	16	16	16	16	16	16	16	16
1.50	1.50	15	15	15	17	17	17	17	23	23	23	23	23	23	23	23	23
1.75	1.75	16	16	16	20	20	20	20	30	30	30	30	30	30	30	30	30
1.00	1.00	17	17	17	14	14	14	14	7	7	7	7	7	7	7	7	7
1.25	1.25	18	18	18	19	19	19	19	10	10	10	10	10	10	10	10	10
1.50	1.50	19	19	19	24	24	24	24	27	27	27	27	27	27	27	27	27
1.75	1.75	20	20	20	28	28	28	28	34	34	34	34	34	34	34	34	34
1.00	1.00	21	21	21	16	16	16	16	9	9	9	9	9	9	9	9	9
1.25	1.25	22	22	22	14	14	14	14	11	11	11	11	11	11	11	11	11
1.50	1.50	23	23	23	20	20	20	20	12	12	12	12	12	12	12	12	12
1.75	1.75	24	24	24	29	29	29	29	22	22	22	22	22	22	22	22	22
1.00	1.00	25	25	25	31	31	31	31	31	31	31	31	31	31	31	31	31
1.25	1.25	26	26	26	35	35	35	35	37	37	37	37	37	37	37	37	37
1.50	1.50	27	27	27	38	38	38	38	39	39	39	39	39	39	39	39	39
1.75	1.75	28	28	28	39	39	39	39	40	40	40	40	40	40	40	40	40
2.00	2.00	29	29	29	40	40	40	40	40	40	40	40	40	40	40	40	40
2.25	2.25	30	30	30	41	41	41	41	41	41	41	41	41	41	41	41	41
2.50	2.50	31	31	31	42	42	42	42	42	42	42	42	42	42	42	42	42
1.00	1.00	32	32	32	43	43	43	43	43	43	43	43	43	43	43	43	43
1.25	1.25	33	33	33	44	44	44	44	44	44	44	44	44	44	44	44	44
1.50	1.50	34	34	34	44	44	44	44	44	44	44	44	44	44	44	44	44
1.75	1.75	35	35	35	44	44	44	44	44	44	44	44	44	44	44	44	44
2.00	2.00	36	36	36	44	44	44	44	44	44	44	44	44	44	44	44	44
2.25	2.25	37	37	37	44	44	44	44	44	44	44	44	44	44	44	44	44
2.50	2.50	38	38	38	44	44	44	44	44	44	44	44	44	44	44	44	44
1.00	1.00	39	39	39	44	44	44	44	44	44	44	44	44	44	44	44	44
1.25	1.25	40	40	40	44	44	44	44	44	44	44	44	44	44	44	44	44
1.50	1.50	41	41	41	44	44	44	44	44	44	44	44	44	44	44	44	44
1.75	1.75	42	42	42	44	44	44	44	44	44	44	44	44	44	44	44	44
2.00	2.00	43	43	43	44	44	44	44	44	44	44	44	44	44	44	44	44
2.25	2.25	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44
2.50	2.50	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

Width-M	Height-M	C W I N D O W >															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	18	1	25	1	1	1	1	1	1	1
.50	1.25	2	2	3	3	12	2	17	2	18	2	3	3	3	3	3	2
.50	1.50	3	3	6	6	27	3	14	3	16	3	6	6	6	6	6	3
.50	1.75	4	4	14	15	34	4	13	4	15	4	15	14	14	14	14	4
.75	1.00	5	5	2	2	2	5	11	5	12	5	2	2	2	2	2	5
.75	1.25	6	6	11	9	13	6	4	6	6	6	9	13	11	11	11	6
.75	1.50	7	7	17	18	24	7	15	7	14	8	18	24	17	17	17	7
.75	1.75	8	8	22	27	35	8	23	8	24	10	27	35	22	22	22	8
1.00	1.00	9	9	4	4	3	9	10	9	10	7	4	3	4	4	8	9
1.00	1.25	10	10	16	16	14	11	12	10	11	11	16	14	16	16	10	10
1.00	1.50	11	11	23	25	25	13	20	11	20	15	25	25	23	23	12	11
1.00	1.75	12	13	30	36	36	18	27	12	30	20	31	36	30	30	16	13
1.25	1.00	13	12	5	5	4	10	6	13	4	9	5	4	5	11	12	12
1.25	1.25	14	14	10	17	15	15	16	14	13	16	17	15	10	14	14	14
1.25	1.50	15	16	20	28	26	23	24	15	22	23	28	26	28	20	16	16
1.25	1.75	16	19	34	37	37	26	32	16	32	26	36	37	34	25	19	19
1.50	1.00	17	15	7	7	5	12	1	17	1	12	7	5	7	13	15	15
1.50	1.25	18	18	19	16	16	20	17	18	17	22	19	16	19	18	18	18
1.50	1.50	19	23	29	27	27	27	30	19	29	27	29	27	29	26	23	23
1.50	1.75	20	20	38	30	30	33	36	20	35	33	38	38	38	31	28	28
1.75	1.00	21	17	8	8	6	14	2	21	2	13	8	6	8	15	17	17
1.75	1.25	22	22	20	20	17	24	21	22	19	24	20	17	20	22	22	22
1.75	1.50	23	29	31	31	28	31	31	23	31	31	30	28	31	29	29	29
1.75	1.75	25	33	39	37	37	36	39	24	38	36	37	39	39	35	33	33
2.00	1.00	24	20	9	9	7	16	3	25	3	14	10	7	9	17	20	20
2.00	1.25	27	27	21	21	18	25	22	26	21	25	21	18	21	27	27	27
2.00	1.50	29	32	32	32	29	34	33	27	33	34	32	29	32	34	32	32
2.00	1.75	33	37	40	40	40	39	40	28	40	37	40	40	40	38	37	37
2.25	1.00	26	21	10	10	8	17	5	29	5	17	11	8	10	19	21	21
2.25	1.25	31	30	24	24	19	28	25	30	23	28	22	19	24	28	30	30
2.25	1.50	35	36	33	33	30	35	34	31	34	35	33	30	33	36	36	36
2.25	1.75	37	40	41	41	41	41	41	32	41	41	41	41	41	41	40	40
2.50	1.00	28	24	12	12	9	19	7	33	7	18	12	9	12	21	24	24
2.50	1.25	34	31	25	25	20	29	26	34	26	27	23	20	25	30	31	31
2.50	1.50	38	38	37	35	31	37	35	35	36	37	34	31	35	37	38	38
2.50	1.75	40	42	42	42	42	42	42	36	42	42	42	42	42	42	42	42
2.75	1.00	30	25	13	13	10	21	8	37	8	19	13	10	13	22	25	25
2.75	1.25	36	34	26	26	21	30	27	38	27	30	24	21	26	32	34	34
2.75	1.50	41	39	36	36	32	38	37	39	37	38	35	32	36	39	39	39
2.75	1.75	43	43	43	43	43	43	43	40	43	43	43	43	43	43	43	43
3.00	1.00	32	26	15	15	11	22	9	41	9	21	14	11	15	24	26	26
3.00	1.25	39	33	27	27	22	32	28	42	28	32	26	22	27	33	35	35
3.00	1.50	42	41	37	37	33	40	38	43	39	40	37	33	37	41	41	41
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

C U I N D O W >		O R I E N T A T I O N S											>>				
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	1	2	2	1	2	1	2	1	1	3	2	2
.50	1.50	3	3	3	4	2	3	3	2	3	2	3	2	2	4	3	3
.50	1.75	4	4	4	5	3	4	4	3	4	3	4	2	3	4	4	4
.75	1.00	5	5	5	6	4	5	5	4	5	4	5	3	4	5	4	4
.75	1.25	6	6	6	7	5	6	6	5	6	5	6	4	5	6	5	5
.75	1.50	7	7	7	8	6	7	7	6	7	6	7	5	6	7	6	6
.75	1.75	8	8	8	9	7	8	8	7	8	7	8	6	7	8	7	7
1.00	1.00	9	9	9	10	8	9	9	8	9	8	9	7	8	9	8	8
1.00	1.25	10	10	10	11	9	10	10	9	10	9	10	8	9	10	9	9
1.00	1.50	11	11	11	12	10	11	11	10	11	10	11	9	10	11	10	10
1.00	1.75	12	12	12	13	11	12	12	11	12	11	12	10	11	12	11	11
1.25	1.00	13	13	13		12	13	13	12	13	12	13	11	12	13	12	12
1.25	1.25					13											
1.25	1.50																
1.25	1.75																
1.50	1.00																
1.50	1.25																
1.50	1.50																
1.50	1.75																
1.75	1.00																
1.75	1.25																
1.75	1.50																
1.75	1.75																
2.00	1.00																
2.00	1.25																
2.00	1.50																
2.00	1.75																
2.25	1.00																
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2.25	1.50																
2.25	1.75																
2.50	1.00																
2.50	1.25																
2.50	1.50																
2.50	1.75																
2.75	1.00																
2.75	1.25																
2.75	1.50																
2.75	1.75																
3.00	1.00																
3.00	1.25																
3.00	1.50																
3.00	1.75																

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< W I N D O W >		O R I E N T A T I O N S															
		<<-----<<				----->>				>>----->>							
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1		1		1	1	1	1	1	1
.50	1.25	2	2	3	3	3	2	2		2		2	3	3	2	2	2
.50	1.50	3	3				3	3		3		3			3	3	3
.50	1.75	4	4				4	4		4		4			4	4	4
.75	1.00	5		2	2	2	2			5			2	2			
.75	1.25	6								6							
.75	1.50	7								7							
.75	1.75	8								8							
1.00	1.00	9				3				9				3			
1.00	1.25	10								10							
1.00	1.50	11								11							
1.00	1.75	12								12							
1.25	1.00	13				4				13				4			
1.25	1.25	14								14							
1.25	1.50	15								15							
1.25	1.75	16								16							
1.50	1.00	17							1	17	1						
1.50	1.25	18								18							
1.50	1.50	19								19							
1.50	1.75	20								20							
1.75	1.00	21								21							
1.75	1.25	22								22							
1.75	1.50	23								23							
1.75	1.75									24							
2.00	1.00									25							
2.00	1.25									26							
2.00	1.50									27							
2.00	1.75									28							
2.25	1.00									29							
2.25	1.25									30							
2.25	1.50									31							
2.25	1.75									32							
2.50	1.00									33							
2.50	1.25									34							
2.50	1.50									35							
2.50	1.75									36							
2.75	1.00									37				10			
2.75	1.25									38							
2.75	1.50									39							
2.75	1.75									40							
3.00	1.00									41				11			
3.00	1.25									42							
3.00	1.50									43							
3.00	1.75									44							

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

Width.M	Height.M	W I N D O W >															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	12	2	3	31	3	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	23	3	5	32	5	3	4	3	3	3	3	3
.50	1.75	4	4	4	4	29	4	8	34	7	4	5	4	4	4	4	4
.75	1.00	5	5	5	5	2	5	2	26	2	5	3	5	5	5	5	5
.75	1.25	6	6	6	6	13	6	7	19	7	6	7	6	6	6	6	6
.75	1.50	7	7	7	7	17	7	11	30	11	7	11	7	7	7	7	7
.75	1.75	8	8	8	8	24	8	17	35	17	8	17	8	8	8	8	8
1.00	1.00	9	9	9	9	3	9	4	18	4	9	6	9	9	9	9	9
1.00	1.25	10	10	11	10	14	10	12	17	12	10	12	11	11	11	11	10
1.00	1.50	11	12	13	12	22	12	20	29	20	12	20	17	22	22	13	12
1.00	1.75	12	13	16	13	30	13	25	36	25	13	25	22	30	30	16	13
1.25	1.00	13	11	10	8	6	11	6	16	6	11	8	8	6	6	10	11
1.25	1.25	14	15	15	15	10	15	17	14	17	15	19	15	18	15	15	15
1.25	1.50	15	17	21	17	28	17	23	28	23	17	24	23	28	21	21	17
1.25	1.75	16	20	25	34	37	20	30	37	30	20	31	28	34	25	25	20
1.50	1.00	17	14	12	7	5	14	9	15	8	14	9	10	7	12	14	14
1.50	1.25	18	19	19	19	16	18	21	12	21	18	21	21	19	19	17	17
1.50	1.50	19	24	26	29	27	23	27	27	27	23	29	27	29	26	24	24
1.50	1.75	20	28	31	38	38	20	34	30	34	20	34	33	38	31	31	28
1.75	1.00	21	16	14	10	6	16	10	13	10	16	10	13	10	14	16	16
1.75	1.25	22	23	24	20	17	22	22	10	22	22	22	24	20	24	23	23
1.75	1.50	24	29	29	31	28	22	32	25	32	29	32	31	31	29	29	29
1.75	1.75	25	33	35	39	39	32	37	37	38	32	38	36	39	35	35	33
2.00	1.00	23	18	17	11	7	19	13	11	13	19	13	14	11	17	18	18
2.00	1.25	26	27	27	23	18	27	24	7	24	26	23	25	23	27	27	27
2.00	1.50	28	32	33	32	30	33	33	24	33	30	33	34	32	33	32	32
2.00	1.75	30	37	38	40	40	40	40	40	40	37	40	39	40	38	37	37
2.25	1.00	27	21	18	12	8	21	14	9	14	21	14	16	12	18	21	21
2.25	1.25	31	30	28	24	19	30	26	5	26	30	26	26	24	20	30	30
2.25	1.50	33	36	36	33	33	35	35	23	35	35	35	35	33	36	36	36
2.25	1.75	36	39	41	41	41	41	41	41	41	39	41	41	41	41	37	37
2.50	1.00	29	22	20	13	9	24	15	8	15	24	15	18	13	20	22	22
2.50	1.25	34	31	30	25	20	31	28	3	28	31	27	29	25	30	31	31
2.50	1.50	37	38	37	35	35	38	36	22	36	38	36	37	35	37	38	38
2.50	1.75	39	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	32	25	22	14	10	25	16	6	16	25	16	19	14	22	25	25
2.75	1.25	38	34	32	26	21	34	29	2	29	34	28	30	26	34	34	34
2.75	1.50	41	40	39	36	36	40	38	21	37	40	37	38	36	40	40	40
2.75	1.75	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	35	26	23	15	11	23	18	4	18	27	18	20	15	23	26	26
3.00	1.25	40	34	34	27	22	30	31	1	31	36	30	32	27	34	35	35
3.00	1.50	43	41	40	37	34	39	39	20	39	41	39	40	37	40	41	41
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

WINDOW		NORTH		22.5		45.0		67.5		EAST		112.5		135.0		157.5		SOUTH		202.5		I		270.0		247.5		WEST		292.5		315.0		337.5			
Width.M	Height.M	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
.50	1.00	1				1				1				1				1				1				1				1				1			
.50	1.25	2				2				2				2				2				2				2				2				2			
.50	1.50	3				3				3				3				3				3				3				3				3			
.50	1.75	4				4				4				4				4				4				4				4				4			
.75	1.00							2								2																					
.75	1.25																																				
.75	1.50																																				
.75	1.75																																				
1.00	1.00																																				
1.00	1.25																																				
1.00	1.50																																				
1.00	1.75																																				
1.25	1.00																																				
1.25	1.25																																				
1.25	1.50																																				
1.25	1.75																																				
1.50	1.00																																				
1.50	1.25																																				
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2.00	1.00																																				
2.00	1.25																																				
2.00	1.50																																				
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2.50	1.00																																				
2.50	1.25																																				
2.50	1.50																																				
2.50	1.75																																				
2.75	1.00																																				
2.75	1.25																																				
2.75	1.50																																				
2.75	1.75																																				
3.00	1.00																																				
3.00	1.25																																				
3.00	1.50																																				

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

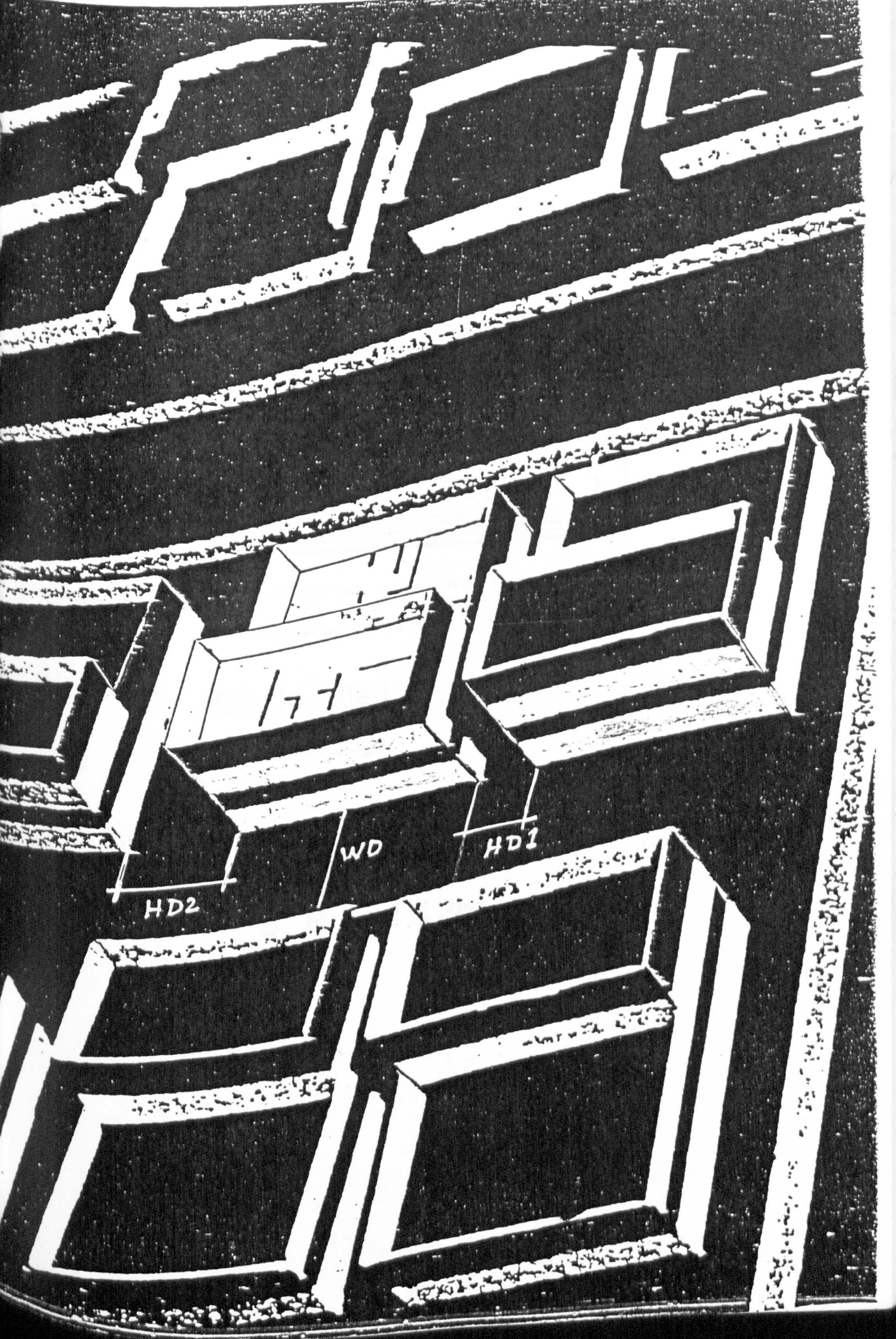
WINDOW >		O R I E N T A T I O N S															
		NORTH				EAST				SOUTH				WEST			
Width.M	Height.M	22.5	45.0	67.5	112.5	135.0	157.5	202.5	270.0	247.5	272.5	315.0	337.5				
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1				
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2				
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3				
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4				
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5				
.75	1.25	7	7	7	7	7	7	7	7	7	7	7	7				
.75	1.50	8	8	8	8	8	8	8	8	8	8	8	8				
1.00	1.00																
1.00	1.25																
1.00	1.50																
1.00	1.75																
1.25	1.00																
1.25	1.25																
1.25	1.50																
1.25	1.75																
1.50	1.00																
1.50	1.25																
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1.75	1.00																
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2.50	1.75																
2.75	1.00																
2.75	1.25																
2.75	1.50																
2.75	1.75																
3.00	1.00																
3.00	1.25																
3.00	1.50																
3.00	1.75																

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER
 WALL THICKNESS = 0.24M

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	1	1	1	1	1
.50	1.25	2	2	2	3	-	2	-	-	-	-	-	2	3	2	2	2
.50	1.50	3	3	3	-	-	-	-	-	-	-	-	-	3	3	3	3
.50	1.75	4	4	4	-	-	-	-	-	-	-	-	-	-	4	4	4
.75	1.00	5	-	2	2	2	-	-	-	-	-	-	-	-	2	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	1	-	1	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	11	-	-	-	2	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

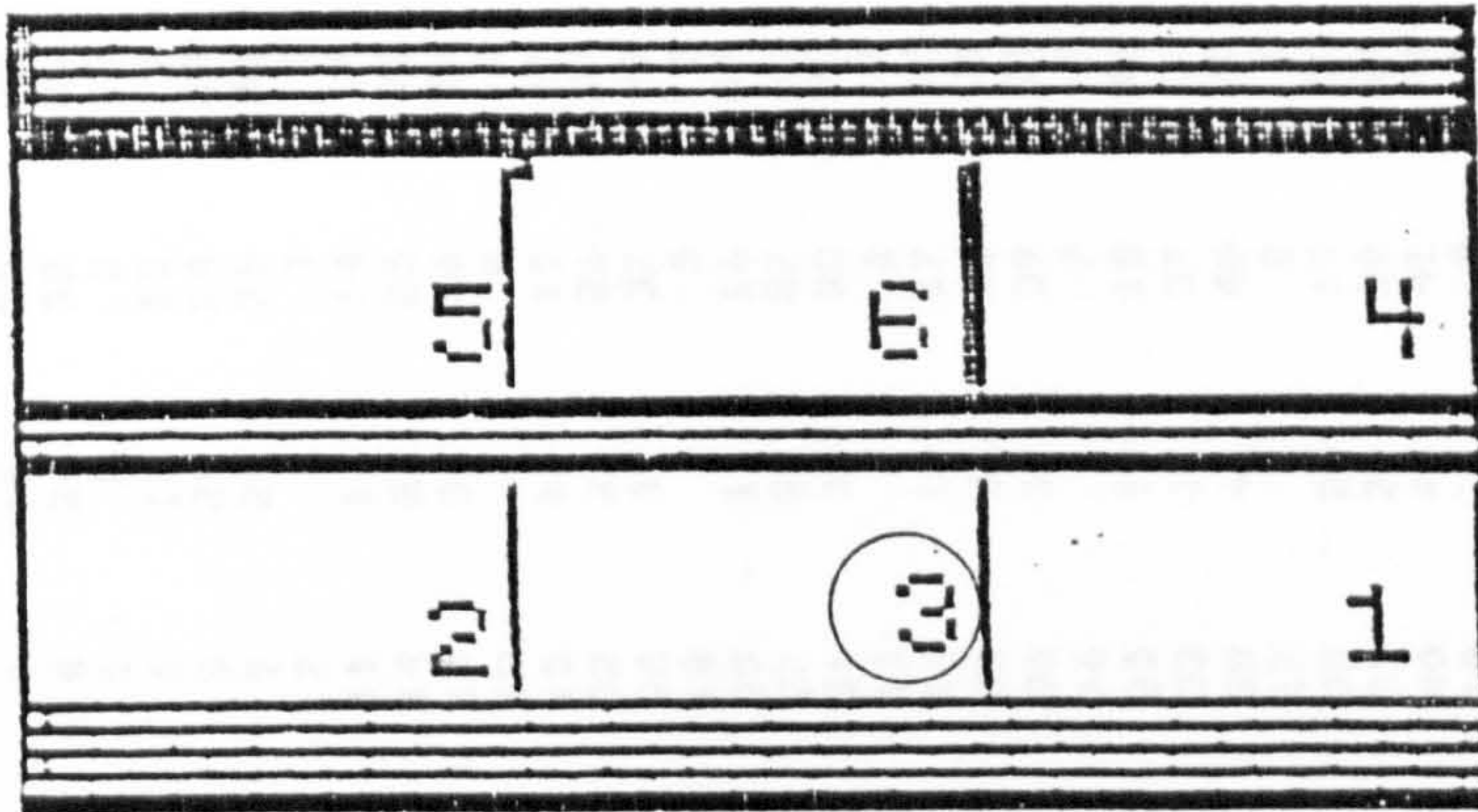


177

WD

HD1

HD2



Key diagram showing the location of window data



Back Hall

2 Storey

Interhouse Distance

4, 6, 8 and 12m.

<<-----<< < WINDOW > ----->> >>----->>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.50	3	11	11	15	15	15	15	15	15	15	15	15	15	15	15	15
.50	1.75	4	15	15	2	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.00	5	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.25	6	6	7	14	14	10	8	6	13	6	13	13	13	7	6	6
.75	1.50	7	10	10	18	18	10	8	6	25	8	25	24	24	10	7	7
.75	1.75	8	15	15	27	12	25	19	9	28	9	29	35	35	15	9	9
1.00	1.00	9	8	6	4	7	4	5	7	3	7	3	3	3	4	8	8
1.00	1.25	10	11	12	16	11	16	13	11	14	11	14	14	14	16	11	11
1.00	1.50	11	13	20	25	17	22	21	14	26	14	26	25	25	22	13	13
1.00	1.75	12	16	23	30	22	30	27	10	36	10	36	36	36	29	16	16
1.25	1.00	13	10	8	5	8	5	7	10	4	10	4	4	4	6	10	10
1.25	1.25	14	14	19	17	15	17	18	16	16	15	16	15	15	10	14	14
1.25	1.50	15	20	24	28	23	20	25	22	27	22	27	26	27	24	20	20
1.25	1.75	16	25	31	35	20	35	32	31	37	31	37	37	37	31	25	25
1.50	1.00	17	12	9	6	10	6	9	12	5	12	5	5	5	7	12	12
1.50	1.25	18	17	21	17	21	17	20	20	17	20	17	16	16	19	19	19
1.50	1.50	20	27	28	29	27	29	30	27	29	27	28	27	28	30	27	27
1.50	1.75	21	32	34	30	33	38	35	31	38	31	38	38	38	37	32	32
1.75	1.00	19	15	11	7	13	0	10	13	6	13	6	6	6	10	15	15
1.75	1.25	23	24	22	20	24	20	22	24	10	24	18	17	17	21	24	24
1.75	1.50	25	30	32	31	31	31	31	30	30	30	30	28	29	31	22	22
1.75	1.75	27	36	38	39	36	39	39	36	37	36	39	39	39	39	30	30
2.00	1.00	22	17	13	8	14	9	11	15	7	16	7	7	7	11	17	17
2.00	1.25	26	26	25	21	25	21	23	25	19	25	19	18	18	23	26	26
2.00	1.50	30	34	33	32	34	32	33	33	31	33	31	29	30	33	25	25
2.00	1.75	33	39	40	40	39	40	40	38	40	38	40	40	40	40	34	34
2.25	1.00	24	18	14	9	16	11	12	17	8	17	8	8	8	12	18	18
2.25	1.25	31	28	26	22	26	23	24	28	20	28	20	19	19	24	28	28
2.25	1.50	35	35	35	33	35	37	34	35	32	35	32	30	31	35	35	35
2.25	1.75	37	41	41	41	41	41	41	40	41	40	41	41	41	41	41	41
2.50	1.00	28	21	16	10	18	12	15	19	9	19	9	9	9	13	21	21
2.50	1.25	34	29	27	23	29	24	26	27	21	29	21	20	20	25	29	29
2.50	1.50	38	37	36	34	37	34	36	37	33	37	33	31	32	35	37	37
2.50	1.75	41	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	29	22	17	12	19	13	16	21	10	21	10	10	10	14	22	22
2.75	1.25	36	31	29	24	30	25	20	32	22	32	22	21	21	26	31	31
2.75	1.50	40	38	37	36	38	36	37	39	34	39	34	33	33	36	40	40
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	32	23	18	13	20	14	17	23	11	23	11	11	11	15	23	23
3.00	1.25	39	33	30	26	32	27	27	34	23	34	23	22	22	28	33	33
3.00	1.50	42	40	39	37	40	37	38	41	35	41	35	34	34	38	40	40

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	17	1	1	1	1	1	1	1	1
.50	1.25	2	2	11	11	2	2	2	14	2	2	12	12	12	3	2	2
.50	1.50	3	3	13	13	3	3	3	13	3	3	16	23	23	5	3	3
.50	1.75	4	4	16	16	4	4	4	11	4	4	25	34	34	10	4	4
.75	1.00	5	5	2	2	5	5	5	12	5	5	2	2	2	2	5	5
.75	1.25	6	6	14	14	6	6	6	2	6	6	13	13	13	9	7	6
.75	1.50	7	7	20	20	8	8	8	16	7	7	24	24	24	17	12	7
.75	1.75	8	8	27	27	10	10	10	19	8	8	30	35	35	21	19	8
1.00	1.00	9	9	3	3	7	4	6	6	9	5	3	3	3	4	6	9
1.00	1.25	10	10	15	15	11	15	12	15	10	16	14	14	14	16	17	10
1.00	1.50	11	12	22	26	13	26	21	21	11	20	26	25	25	22	22	12
1.00	1.75	12	14	29	31	18	31	27	25	12	25	36	36	36	29	27	14
1.25	1.00	13	11	4	4	9	5	8	4	13	6	4	4	4	6	8	11
1.25	1.25	14	15	17	17	15	17	19	18	14	18	15	15	15	18	18	15
1.25	1.50	15	21	28	28	21	28	25	23	15	23	27	26	26	28	28	21
1.25	1.75	16	25	37	37	27	36	32	30	16	30	37	37	37	33	32	25
1.50	1.00	17	13	5	5	12	7	9	1	17	7	5	5	5	7	9	13
1.50	1.25	18	20	18	18	19	19	20	20	18	21	17	16	16	19	20	20
1.50	1.50	19	27	29	29	26	29	30	28	19	28	28	27	27	30	30	27
1.50	1.75	20	32	38	38	33	38	35	34	20	34	38	38	38	38	36	32
1.75	1.00	21	16	6	6	14	9	11	3	21	9	6	6	6	8	10	16
1.75	1.25	22	24	19	19	24	20	22	22	22	22	10	17	17	20	21	24
1.75	1.50	23	31	30	30	30	30	31	32	23	32	29	28	28	31	31	31
1.75	1.75	24	35	39	39	36	39	39	37	24	36	39	39	39	39	39	35
2.00	1.00	25	17	7	7	16	10	13	5	25	10	7	7	7	11	11	17
2.00	1.25	26	26	21	21	25	21	23	24	26	24	19	18	18	23	23	26
2.00	1.50	28	34	32	32	34	32	33	33	27	33	31	29	29	32	33	34
2.00	1.75	29	38	40	40	40	40	40	37	28	39	40	40	40	40	40	38
2.25	1.00	27	18	8	8	17	11	14	7	29	11	8	8	8	12	14	18
2.25	1.25	31	20	22	22	20	22	24	26	30	26	20	19	19	24	24	28
2.25	1.50	33	36	33	33	35	34	34	35	31	35	32	30	30	34	34	36
2.25	1.75	36	41	41	41	41	41	41	41	32	41	41	41	41	41	41	41
2.50	1.00	30	19	15	9	20	12	15	8	33	13	9	9	9	13	15	19
2.50	1.25	34	27	25	23	29	23	26	27	34	27	21	20	20	25	25	29
2.50	1.50	37	37	35	34	37	34	36	36	35	37	33	31	31	35	35	37
2.50	1.75	39	42	42	42	42	42	42	42	36	42	42	42	42	42	42	42
2.75	1.00	32	22	16	10	22	13	16	9	37	14	10	10	10	14	16	22
2.75	1.25	38	30	24	24	31	24	28	29	38	29	22	21	21	26	26	30
2.75	1.50	41	39	37	35	38	35	37	38	39	38	34	32	32	36	37	39
2.75	1.75	42	43	43	43	43	43	43	43	40	43	43	43	43	43	43	43
3.00	1.00	35	23	17	12	23	14	17	10	41	15	11	11	11	15	17	23
3.00	1.25	40	33	27	25	32	25	29	31	42	31	23	22	22	27	27	33
3.00	1.50	43	40	38	36	39	37	38	40	43	40	35	33	33	37	38	40
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

Window		Orientation															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	4	4	4	4	4	4	4	4
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	5	5	5	5	5	5	5	5
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	8	8	8	8	8	8	8	8
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	9	9	9	9	9	9	9	9
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	10	10	10	10	10	10	10	10
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	11	11	11	11	11	11	11	11
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS=0.12M

W I N D O W >		<<-----<<												>>----->>			
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	4	2	2	2	2	2	2	3	3	2	2	3	3	4	-
.75	1.25	6	-	-	-	-	-	-	-	4	7.	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	5	5	3	3	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	7	8	4	4	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	13	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	14	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	15	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	18	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	21	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

W I N D O W >		<<----->>																			
Width-M	Height-M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	I	D	N	S	247.5	WEST	292.5	315.0	337.5	
.50	1.00	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	-	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	-	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	-	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	-	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	-	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	-	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	-	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	9	-	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	10	10	10	10	10	10	-	10	10	10	10	10	10	10	10	10	10	10	10
1.00	1.50	11	11	11	11	11	11	11	-	11	11	11	11	11	11	11	11	11	11	11	11
1.00	1.75	12	12	12	12	12	12	12	-	12	12	12	12	12	12	12	12	12	12	12	12
1.25	1.00	-	-	-	4	-	-	-	-	4	6	6	6	6	6	6	6	6	6	6	6
1.25	1.25	-	-	-	5	-	-	-	1	10	7	7	7	7	7	7	7	7	7	7	7
1.25	1.50	-	-	-	6	-	-	-	-	16	9	9	9	9	9	9	9	9	9	9	9
1.25	1.75	-	-	-	7	-	-	-	-	17	21	21	21	21	21	21	21	21	21	21	21
1.50	1.00	-	-	-	8	-	-	-	-	18	22	22	22	22	22	22	22	22	22	22	22
1.50	1.25	-	-	-	9	-	-	-	-	19	23	23	23	23	23	23	23	23	23	23	23
1.50	1.50	-	-	-	10	-	-	-	-	20	24	24	24	24	24	24	24	24	24	24	24
1.50	1.75	-	-	-	11	-	-	-	-	21	25	25	25	25	25	25	25	25	25	25	25
1.75	1.00	-	-	-	12	-	-	-	-	22	26	26	26	26	26	26	26	26	26	26	26
1.75	1.25	-	-	-	13	-	-	-	-	23	27	27	27	27	27	27	27	27	27	27	27
1.75	1.50	-	-	-	14	-	-	-	-	24	28	28	28	28	28	28	28	28	28	28	28
1.75	1.75	-	-	-	15	-	-	-	-	25	29	29	29	29	29	29	29	29	29	29	29
2.00	1.00	-	-	-	16	-	-	-	-	26	30	30	30	30	30	30	30	30	30	30	30
2.00	1.25	-	-	-	17	-	-	-	-	27	31	31	31	31	31	31	31	31	31	31	31
2.00	1.50	-	-	-	18	-	-	-	-	28	32	32	32	32	32	32	32	32	32	32	32
2.00	1.75	-	-	-	19	-	-	-	-	29	33	33	33	33	33	33	33	33	33	33	33
2.25	1.00	-	-	-	20	-	-	-	-	30	34	34	34	34	34	34	34	34	34	34	34
2.25	1.25	-	-	-	21	-	-	-	-	31	35	35	35	35	35	35	35	35	35	35	35
2.25	1.50	-	-	-	22	-	-	-	-	32	36	36	36	36	36	36	36	36	36	36	36
2.25	1.75	-	-	-	23	-	-	-	-	33	37	37	37	37	37	37	37	37	37	37	37
2.50	1.00	-	-	-	24	-	-	-	-	34	38	38	38	38	38	38	38	38	38	38	38
2.50	1.25	-	-	-	25	-	-	-	-	35	39	39	39	39	39	39	39	39	39	39	39
2.50	1.50	-	-	-	26	-	-	-	-	36	40	40	40	40	40	40	40	40	40	40	40
2.50	1.75	-	-	-	27	-	-	-	-	37	41	41	41	41	41	41	41	41	41	41	41
2.75	1.00	-	-	-	28	-	-	-	-	38	42	42	42	42	42	42	42	42	42	42	42
2.75	1.25	-	-	-	29	-	-	-	-	39	43	43	43	43	43	43	43	43	43	43	43
2.75	1.50	-	-	-	30	-	-	-	-	40	44	44	44	44	44	44	44	44	44	44	44
2.75	1.75	-	-	-	31	-	-	-	-	41	45	45	45	45	45	45	45	45	45	45	45
3.00	1.00	-	-	-	32	-	-	-	-	42	46	46	46	46	46	46	46	46	46	46	46
3.00	1.25	-	-	-	33	-	-	-	-	43	47	47	47	47	47	47	47	47	47	47	47
3.00	1.50	-	-	-	34	-	-	-	-	44	48	48	48	48	48	48	48	48	48	48	48
3.00	1.75	-	-	-	35	-	-	-	-	45	49	49	49	49	49	49	49	49	49	49	49

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WCST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	0	2	2	12	2	12	0	12	3	2	2
.50	1.50	3	3	3	6	23	14	4	3	15	3	15	14	23	6	3	3
.50	1.75	4	4	4	15	26	25	6	4	24	4	24	25	26	15	4	4
.75	1.00	5	5	5	2	2	2	3	5	2	5	2	2	2	2	5	5
.75	1.25	6	6	6	10	13	13	0	6	13	6	13	13	13	10	6	6
.75	1.50	7	7	7	17	24	23	14	8	25	0	25	23	24	17	7	7
.75	1.75	8	9	12	24	35	29	19	9	28	9	29	29	35	24	8	8
1.00	1.00	9	8	7	4	3	3	5	7	3	7	3	3	3	4	7	9
1.00	1.25	10	11	11	16	14	15	13	11	14	11	14	15	14	16	11	10
1.00	1.50	11	13	17	22	25	26	21	14	27	14	26	26	25	22	17	12
1.00	1.75	12	16	30	36	36	36	27	18	36	18	36	36	36	30	22	14
1.25	1.00	13	10	5	4	4	4	7	10	4	10	4	4	4	5	8	11
1.25	1.25	14	14	18	18	15	10	10	15	16	15	16	16	15	18	16	15
1.25	1.50	15	20	28	28	27	25	25	22	27	22	27	27	27	28	23	17
1.25	1.75	16	25	34	34	37	37	32	26	37	26	37	37	37	34	28	21
1.50	1.00	17	12	7	7	5	9	9	12	5	12	5	5	5	7	10	13
1.50	1.25	18	19	19	19	16	17	20	20	17	20	17	17	16	19	21	18
1.50	1.50	20	27	29	29	28	30	30	27	29	27	28	28	28	29	27	24
1.50	1.75	21	32	38	38	38	35	35	31	38	31	38	38	38	38	33	28
1.75	1.00	19	15	8	8	6	10	10	13	6	13	6	6	6	8	13	16
1.75	1.25	22	24	20	20	17	22	22	24	18	24	18	18	17	20	24	22
1.75	1.50	24	30	31	31	29	31	31	30	30	30	30	30	29	31	31	29
1.75	1.75	26	36	36	37	39	39	39	36	39	36	39	39	39	39	36	34
2.00	1.00	23	17	14	9	7	11	11	16	7	16	7	7	7	9	14	19
2.00	1.25	27	26	21	21	18	23	23	25	19	25	19	19	18	21	25	27
2.00	1.50	29	34	34	32	30	33	33	33	31	33	31	31	30	32	34	32
2.00	1.75	32	39	40	40	40	40	40	38	40	38	40	40	40	40	40	37
2.25	1.00	25	18	15	11	8	12	12	17	8	17	8	9	8	11	15	20
2.25	1.25	30	28	26	23	19	24	24	20	20	28	20	20	19	23	26	30
2.25	1.50	35	35	33	33	31	34	34	35	32	35	32	32	31	33	35	36
2.25	1.75	36	41	41	41	41	41	41	40	41	40	41	41	41	41	41	40
2.50	1.00	28	21	12	12	9	10	15	19	9	19	9	10	9	12	18	23
2.50	1.25	34	29	25	25	20	26	26	29	21	29	21	21	20	25	29	31
2.50	1.50	38	37	35	35	32	36	36	37	33	37	33	33	32	35	37	38
2.50	1.75	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	31	22	13	13	10	16	16	21	10	21	10	11	10	13	19	25
2.75	1.25	37	31	26	26	21	28	28	32	22	32	22	22	21	26	30	33
2.75	1.50	41	38	36	36	33	37	37	39	34	39	34	34	33	36	38	39
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	33	23	14	14	11	17	17	23	11	23	11	12	11	14	20	26
3.00	1.25	39	33	27	27	22	29	29	34	23	34	23	24	22	27	32	35
3.00	1.50	42	40	37	37	34	38	38	41	35	41	35	35	34	37	41	41

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	3	12	12	2	2	2	2	2	12	12	12	3	2	2
.50	1.50	3	3	6	23	23	4	4	4	24	4	14	15	23	6	3	3
.50	1.75	4	4	15	31	31	5	5	6	34	6	22	25	31	15	4	4
.75	1.00	5	5	2	2	2	3	3	3	3	3	2	2	2	2	5	5
.75	1.25	6	6	10	13	13	7	7	7	4	7	13	13	13	10	7	6
.75	1.50	7	7	18	24	24	9	9	9	25	9	25	24	24	18	9	7
.75	1.75	8	8	27	35	35	11	11	13	35	13	28	30	35	27	12	9
1.00	1.00	9	9	4	3	3	18	18	5	5	5	3	3	3	4	6	9
1.00	1.25	10	11	16	14	14	6	13	11	6	11	15	14	14	16	11	10
1.00	1.50	11	13	24	25	25	20	20	17	26	17	26	26	25	24	20	12
1.00	1.75	12	15	31	36	36	25	25	22	35	22	36	36	36	31	22	13
1.25	1.00	13	10	5	4	4	0	0	8	7	8	4	4	4	5	8	11
1.25	1.25	14	16	17	15	15	19	19	15	8	15	16	16	15	17	17	15
1.25	1.50	15	22	28	26	26	24	24	23	27	23	27	27	26	28	24	17
1.25	1.75	16	25	37	37	37	31	31	27	37	27	37	37	37	37	29	20
1.50	1.00	17	12	7	5	5	9	9	10	9	10	5	5	5	7	10	14
1.50	1.25	18	20	17	16	16	21	21	21	10	21	17	17	16	19	21	19
1.50	1.50	19	26	29	27	27	30	30	26	28	26	29	28	27	29	27	24
1.50	1.75	20	31	38	38	38	35	35	33	30	33	38	38	38	38	34	28
1.75	1.00	21	14	8	6	6	10	10	12	11	12	6	6	6	8	13	16
1.75	1.25	22	24	20	17	17	22	22	24	12	24	18	18	17	20	23	23
1.75	1.50	24	30	30	28	28	32	32	30	29	30	30	29	28	30	32	29
1.75	1.75	25	35	37	39	39	38	38	36	39	36	37	37	37	39	37	33
2.00	1.00	23	17	9	7	7	12	12	14	13	14	7	7	7	9	14	18
2.00	1.25	26	27	21	18	18	23	23	25	14	25	19	19	18	21	25	27
2.00	1.50	28	34	29	29	29	33	33	34	30	34	31	31	27	32	33	32
2.00	1.75	30	38	38	40	40	40	40	37	40	37	40	40	40	40	40	37
2.25	1.00	27	18	11	8	8	14	14	16	15	16	8	8	8	11	15	21
2.25	1.25	31	28	22	19	19	26	26	28	16	28	20	20	19	22	26	30
2.25	1.50	33	36	33	30	30	34	34	35	31	35	32	32	30	33	35	36
2.25	1.75	36	41	41	41	41	41	41	41	41	41	41	41	41	41	41	39
2.50	1.00	29	19	12	9	9	15	15	18	17	18	9	9	9	12	16	22
2.50	1.25	34	29	23	20	20	27	27	29	18	29	21	21	20	23	28	31
2.50	1.50	37	37	34	32	32	36	36	37	32	37	33	33	32	34	36	38
2.50	1.75	39	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	32	21	13	10	10	16	16	19	19	19	10	10	10	13	18	25
2.75	1.25	38	32	25	21	21	28	28	31	20	31	23	22	21	25	30	34
2.75	1.50	41	39	35	33	33	37	37	38	23	38	34	34	33	35	38	40
2.75	1.75	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	35	23	14	11	11	17	17	20	21	20	11	11	11	14	19	26
3.00	1.25	40	33	26	22	22	29	29	32	22	32	24	23	22	26	31	35
3.00	1.50	43	40	36	34	34	39	39	40	33	40	35	35	34	36	39	41
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

WINDOW >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	1	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	1	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	1	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	8	8	8	8	8	8	8	8	8	8	8	8	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	9	9	9	9	9	9	9	9	9	9	9	9	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	11	11	11	11	11	11	11	11	11	11	11	11	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

Width.M	Height.M	W I N D O W >											O R I E N T A T I O N S			
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	-	-	-	4	4	-	4	-	-	-	3	-	3
.50	1.75	4	4	-	-	-	5	5	-	5	-	-	-	4	-	4
.75	1.00	5	2	2	2	2	3	3	3	3	2	2	2	2	-	-
.75	1.25	6	-	-	-	-	7	7	7	7	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	5	5	5	3	3	3	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	4	4	4	4	4	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	8	8	8	4	4	4	-	-	-
1.25	1.25	-	-	-	-	-	-	-	9	9	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	9	9	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

< WINDOW > -----<< >>----- WINDOW S

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	-	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	-	-	-	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	-	-	-	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	-	-	-	4	4	4
.75	1.00	5	5	2	2	2	2	2	2	2	2	-	2	2	-	-	-
.75	1.25	6	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	9	-	3	3	3	3	3	3	3	-	3	3	-	-	-
1.00	1.25	10	-	-	-	-	-	-	5	5	5	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	16	16	16	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	20	20	20	-	-	-	-	-	-
1.25	1.00	-	-	-	4	4	4	4	-	6	6	-	4	4	-	-	-
1.25	1.25	-	-	-	-	-	-	-	10	10	10	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	5	5	5	5	7	7	7	-	5	5	-	-	-
1.50	1.25	-	-	-	-	-	-	-	21	21	21	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	10	10	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	19	19	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	9	9	9	-	-	6	-	-	-
1.75	1.25	-	-	-	-	-	-	-	22	22	22	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	7	7	7	7	10	10	10	5	-	7	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	8	8	8	8	11	11	11	4	-	8	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	9	9	9	9	13	13	13	3	-	9	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	10	10	10	10	14	14	14	2	-	10	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	11	11	11	11	15	15	15	1	-	11	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

Width.M	Height.M	CUMINDOM															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	3	3	3	4	4	4	4	4	4	4	4	4
.50	1.50	3	3	3	6	6	6	6	8	8	8	8	8	8	8	8	8
.50	1.75	4	4	4	11	11	11	11	18	18	18	15	15	11	11	11	11
.75	1.00	5	5	5	2	2	2	2	3	3	3	2	2	2	2	2	2
.75	1.25	6	6	6	7	7	7	7	4	4	4	11	11	8	8	8	8
.75	1.50	7	7	7	15	15	15	15	25	25	25	18	18	24	24	24	24
.75	1.75	8	8	8	20	20	20	20	35	35	35	26	26	35	35	35	35
1.00	1.00	9	9	9	4	4	4	4	5	5	5	4	4	4	4	4	4
1.00	1.25	10	10	10	16	16	16	16	6	6	6	16	16	16	16	16	16
1.00	1.50	11	11	11	22	22	22	22	19	19	19	23	23	22	22	22	22
1.00	1.75	12	12	12	30	30	30	30	26	26	26	30	30	30	30	30	30
1.25	1.00	13	13	13	5	5	5	5	7	7	7	5	5	4	4	4	4
1.25	1.25	14	14	14	17	17	17	17	9	9	9	17	17	15	15	15	15
1.25	1.50	15	15	15	28	28	28	28	23	23	23	28	28	26	26	26	26
1.25	1.75	16	16	16	35	35	35	35	32	32	32	30	30	37	37	37	37
1.50	1.00	17	17	17	7	7	7	7	9	9	9	7	7	5	5	5	5
1.50	1.25	18	18	18	17	17	17	17	10	10	10	19	19	16	16	16	16
1.50	1.50	19	19	19	29	29	29	29	27	27	27	29	29	27	27	27	27
1.50	1.75	20	20	20	38	38	38	38	34	34	34	30	30	38	38	38	38
1.75	1.00	19	19	19	9	9	9	9	11	11	11	7	7	6	6	6	6
1.75	1.25	23	23	23	20	20	20	20	22	22	22	20	20	17	17	17	17
1.75	1.50	24	24	24	31	31	31	31	31	31	31	31	31	28	28	28	28
1.75	1.75	27	27	27	39	39	39	39	37	37	37	36	36	39	39	39	39
2.00	1.00	22	22	22	10	10	10	10	13	13	13	9	9	7	7	7	7
2.00	1.25	25	25	25	21	21	21	21	24	24	24	21	21	18	18	18	18
2.00	1.50	30	30	30	32	32	32	32	33	33	33	32	32	32	32	32	32
2.00	1.75	33	33	33	40	40	40	40	40	40	40	40	40	40	40	40	40
2.25	1.00	25	25	25	12	12	12	12	15	15	15	10	10	8	8	8	8
2.25	1.25	31	31	31	23	23	23	23	25	25	25	22	22	19	19	19	19
2.25	1.50	35	35	35	33	33	33	33	35	35	35	33	33	31	31	31	31
2.25	1.75	37	37	37	41	41	41	41	41	41	41	41	41	41	41	41	41
2.50	1.00	28	28	28	13	13	13	13	14	14	14	9	9	9	9	9	9
2.50	1.25	34	34	34	25	25	25	25	26	26	26	24	24	20	20	20	20
2.50	1.50	38	38	38	34	34	34	34	36	36	36	34	34	34	34	34	34
2.50	1.75	41	41	41	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	29	29	29	14	14	14	14	16	16	16	13	13	10	10	10	10
2.75	1.25	36	36	36	26	26	26	26	28	28	28	25	25	21	21	21	21
2.75	1.50	40	40	40	36	36	36	36	37	37	37	36	36	36	36	36	36
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	32	32	32	15	15	15	15	17	17	17	14	14	11	11	11	11
3.00	1.25	39	39	39	27	27	27	27	30	30	30	27	27	22	22	22	22
3.00	1.50	42	42	42	37	37	37	37	38	38	38	37	37	34	34	34	34
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

Window		North		22.5		45.0		67.5		EAST		112.5		135.0		157.5		SOUTH		202.5		270.0		247.5		WEST		292.5		315.0		337.5					
Width.M	Height.M	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
.50	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
.50	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
.50	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
.50	1.75	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
.75	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
.75	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
.75	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
.75	1.75	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.00	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.00	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.00	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.00	1.75	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.25	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.25	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.25	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.25	1.75	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.50	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.50	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.50	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.50	1.75	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.75	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.75	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.75	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
1.75	1.75	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.00	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.00	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.00	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.00	1.75	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.25	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.25	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.25	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.25	1.75	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.50	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.50	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.50	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.50	1.75	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.75	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.75	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.75	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
2.75	1.75	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
3.00	1.00	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
3.00	1.25	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				
3.00	1.50	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4				

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	4	4	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	5	5	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	5	6	6	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	6	7	7	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	7	8	8	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	8	9	9	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	9	10	10	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	10	10	11	11	10	10	10	10	10	10	10	10	10	10	10
1.00	1.50	11	11	11	12	12	11	11	11	11	11	11	11	11	11	11	11
1.00	1.75	12	12	12	13	13	12	12	12	12	12	12	12	12	12	12	12
1.25	1.00	13	13	13			13	13	13	13	13	13	13	13	13	13	13
1.25	1.25																
1.25	1.50																
1.25	1.75																
1.50	1.00																
1.50	1.25																
1.50	1.50																
1.50	1.75																
1.75	1.00																
1.75	1.25																
1.75	1.50																
1.75	1.75																
2.00	1.00																
2.00	1.25																
2.00	1.50																
2.00	1.75																
2.25	1.00																
2.25	1.25																
2.25	1.50																
2.25	1.75																
2.50	1.00																
2.50	1.25																
2.50	1.50																
2.50	1.75																
2.75	1.00																
2.75	1.25																
2.75	1.50																
2.75	1.75																
3.00	1.00																
3.00	1.25																
3.00	1.50																
3.00	1.75																

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

WINDOW >		<<----->>----->>															
Width.M	Height.M	NORTH				EAST				SOUTH				WEST			
		22.5	45.0	67.5	112.5	135.0	157.5	202.5	270.0	247.5	292.5	315.0	337.5				
.50	1.00	1	1	1	1	1			1	1	1	1	1				
.50	1.25	2	2	3	2	2			2	3	3	2	2				
.50	1.50	3	3		3	3			3			3	3				
.50	1.75	4	4		4	4			4			4	4				
.75	1.00	5		2						2							
.75	1.25	6															
.75	1.50	7															
.75	1.75	8															
1.00	1.00	9															
1.00	1.25	10															
1.00	1.50	11															
1.00	1.75	12															
1.25	1.00	13															
1.25	1.25	14															
1.25	1.50	15															
1.25	1.75	16															
1.50	1.00	17															
1.50	1.25	18															
1.50	1.50	19															
1.50	1.75	20															
1.75	1.00	21															
1.75	1.25	22															
1.75	1.50	23															
1.75	1.75																
2.00	1.00																
2.00	1.25																
2.00	1.50																
2.00	1.75																
2.25	1.00																
2.25	1.25																
2.25	1.50																
2.25	1.75																
2.50	1.00																
2.50	1.25																
2.50	1.50																
2.50	1.75																
2.75	1.00																
2.75	1.25																
2.75	1.50																
2.75	1.75																
3.00	1.00																
3.00	1.25																
3.00	1.50																
3.00	1.75																

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

Width-M	Height-M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	5	2	2	2	12	2	2	2	2	3	2	2
.50	1.50	3	3	3	5	14	3	3	4	23	4	3	4	4	5	3	3
.50	1.75	4	4	4	11	10	4	5	5	25	5	4	5	6	10	4	4
.75	1.00	5	5	5	2	2	3	3	3	2	3	5	3	3	2	5	5
.75	1.25	6	6	6	8	13	6	6	6	13	6	6	7	7	9	6	6
.75	1.50	7	7	7	17	21	9	9	9	24	9	7	10	13	17	8	7
.75	1.75	8	8	8	21	28	16	12	12	35	12	9	16	19	21	9	8
1.00	1.00	9	9	7	4	3	6	7	7	3	7	8	6	5	4	7	9
1.00	1.25	10	10	11	16	15	12	10	11	14	11	10	12	12	16	11	10
1.00	1.50	11	12	13	22	26	20	18	18	26	19	12	20	21	22	13	12
1.00	1.75	12	14	16	29	33	25	22	22	36	22	14	25	27	29	16	14
1.25	1.00	13	11	10	6	4	8	8	8	4	8	11	8	8	6	10	11
1.25	1.25	14	15	15	18	16	18	17	17	15	17	15	18	18	18	15	15
1.25	1.50	15	17	20	28	27	23	24	24	27	24	17	23	24	20	20	17
1.25	1.75	16	21	25	33	37	31	27	27	37	29	21	31	32	33	25	21
1.50	1.00	17	13	12	7	6	9	10	10	5	10	13	9	9	7	12	13
1.50	1.25	18	18	19	19	17	19	19	21	16	21	17	21	20	19	19	10
1.50	1.50	20	24	26	30	29	28	27	27	28	27	24	28	30	30	26	24
1.50	1.75	21	28	30	38	38	34	34	34	30	34	28	34	35	33	30	28
1.75	1.00	19	16	14	9	7	11	13	13	6	13	16	11	10	9	14	16
1.75	1.25	22	22	23	20	19	22	23	23	17	23	23	22	22	20	23	22
1.75	1.50	24	29	29	31	30	32	29	31	29	31	29	32	31	31	29	29
1.75	1.75	26	34	35	39	39	38	34	36	39	36	33	38	37	39	35	34
2.00	1.00	23	19	17	10	8	13	14	14	7	14	18	13	11	17	17	19
2.00	1.25	27	27	27	23	20	24	25	25	18	25	27	24	23	23	27	27
2.00	1.50	29	32	33	32	31	33	32	33	30	33	32	33	33	32	33	32
2.00	1.75	32	37	38	40	40	40	37	38	40	38	37	40	40	40	38	37
2.25	1.00	25	20	18	12	9	14	15	15	8	15	20	14	14	12	18	20
2.25	1.25	30	30	28	24	22	26	26	26	19	26	30	26	25	24	28	30
2.25	1.50	35	36	36	34	32	35	36	35	31	35	36	35	34	34	36	36
2.25	1.75	36	40	41	41	41	41	40	40	41	40	40	41	41	41	41	40
2.50	1.00	28	23	21	13	10	15	16	16	9	16	22	15	15	13	21	23
2.50	1.25	34	31	31	27	23	31	28	28	20	28	31	27	26	25	31	31
2.50	1.50	38	38	37	35	34	38	37	37	32	37	38	36	36	35	37	38
2.50	1.75	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	31	25	22	14	11	17	19	19	10	18	25	17	16	14	22	25
2.75	1.25	37	33	32	26	24	27	30	30	21	30	34	29	28	26	32	33
2.75	1.50	41	39	39	36	35	37	39	39	33	39	39	37	37	36	39	39
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	33	26	24	15	12	19	20	20	11	20	26	19	17	15	24	26
3.00	1.25	39	35	34	27	25	30	32	32	22	32	35	30	27	27	34	35
3.00	1.50	42	41	40	37	36	39	41	41	34	41	41	39	38	37	40	41

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	33	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	7	2	2	3	31	3	2	2	2	3	2	2
.50	1.50	3	3	3	5	14	3	3	5	32	5	3	4	4	5	3	3
.50	1.75	4	4	4	11	20	4	4	8	34	9	4	5	6	11	4	4
.75	1.00	5	5	5	2	2	5	5	2	26	2	5	3	5	2	5	5
.75	1.25	6	6	6	13	13	7	6	7	19	7	6	7	8	8	6	6
.75	1.50	7	7	7	17	23	11	7	11	30	11	7	11	14	17	7	7
.75	1.75	8	8	8	24	28	17	8	19	35	19	8	17	19	23	8	8
1.00	1.00	9	9	9	4	3	6	9	4	18	4	9	6	5	4	7	9
1.00	1.25	10	10	11	16	15	12	10	12	17	12	10	12	13	16	10	10
1.00	1.50	11	12	13	22	26	20	12	20	29	20	11	20	21	22	11	12
1.00	1.75	12	13	16	30	35	25	13	25	36	25	13	25	27	30	13	13
1.25	1.00	13	11	10	6	4	8	11	6	16	6	12	8	7	6	10	11
1.25	1.25	14	15	15	18	16	19	15	17	14	17	14	17	18	18	15	15
1.25	1.50	15	17	21	28	27	24	17	23	28	23	16	24	25	28	17	17
1.25	1.75	16	20	25	35	37	31	20	30	37	30	17	31	32	34	20	20
1.50	1.00	17	14	12	7	5	9	14	9	15	8	15	9	9	7	14	14
1.50	1.25	18	19	17	19	17	21	10	21	12	21	18	21	20	19	19	19
1.50	1.50	19	24	26	29	29	29	23	27	27	27	21	29	30	29	24	24
1.50	1.75	20	28	31	38	38	34	26	34	38	34	24	34	35	38	28	28
1.75	1.00	21	16	14	9	6	10	16	10	13	10	17	10	10	9	16	16
1.75	1.25	22	23	24	20	18	22	22	22	10	22	22	22	22	20	23	23
1.75	1.50	24	29	29	31	30	32	29	32	25	32	28	32	31	31	29	29
1.75	1.75	25	33	35	39	39	38	31	37	39	38	31	38	39	39	33	33
2.00	1.00	23	18	17	10	8	13	19	13	11	13	20	13	11	10	18	18
2.00	1.25	26	27	27	21	19	23	27	24	7	24	26	23	23	21	27	27
2.00	1.50	28	32	33	32	31	33	33	33	24	33	32	33	33	32	32	32
2.00	1.75	30	37	38	40	40	40	37	40	40	40	36	40	40	40	37	37
2.25	1.00	27	21	18	12	9	14	21	14	9	14	23	14	12	12	21	21
2.25	1.25	31	30	28	23	21	25	30	26	5	26	30	26	24	24	30	30
2.25	1.50	33	36	36	33	32	35	35	35	23	35	35	35	34	33	36	36
2.25	1.75	36	37	41	41	41	41	39	41	41	41	39	41	41	41	39	39
2.50	1.00	29	22	20	13	10	15	24	15	8	15	25	15	15	13	22	22
2.50	1.25	34	31	30	25	22	27	32	28	3	28	33	27	26	25	31	31
2.50	1.50	37	38	37	34	33	36	38	36	22	36	38	36	36	35	38	38
2.50	1.75	39	42	42	42	42	42	42	42	42	42	41	42	42	42	42	42
2.75	1.00	32	25	22	14	11	16	25	16	6	16	27	16	16	14	25	25
2.75	1.25	38	34	26	26	24	28	34	27	2	27	34	28	28	26	34	34
2.75	1.50	41	40	36	36	34	37	40	38	21	37	40	37	37	36	40	40
2.75	1.75	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	35	23	15	15	12	18	28	18	4	18	29	18	17	15	26	26
3.00	1.25	40	34	27	25	25	30	35	31	1	31	37	30	29	27	35	35
3.00	1.50	43	41	37	36	36	39	41	39	20	39	42	39	38	37	41	41
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

Width.M	Height.M	O R I E N T A T I O N S														
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0
.50	1.00	1	1	1	1	1	1	10	44	10	10	1	1	1	1	1
.50	1.25	2	2	2	3	6	14	16	43	16	14	2	2	3	2	2
.50	1.50	3	3	3	6	14	21	13	42	13	20	3	4	6	3	3
.50	1.75	4	4	4	14	21	21	12	41	12	20	4	5	12	4	4
.75	1.00	5	5	5	2	13	2	11	40	11	25	5	4	2	5	5
.75	1.25	6	6	6	11	13	13	3	39	3	28	7	7	9	6	6
.75	1.50	7	7	7	17	22	22	15	37	15	24	10	10	17	7	7
.75	1.75	8	8	8	22	29	29	21	36	21	24	16	16	21	8	8
1.00	1.00	9	9	9	4	3	3	9	38	9	31	6	5	4	9	9
1.00	1.25	10	10	10	16	15	15	14	35	14	28	11	12	16	10	10
1.00	1.50	11	11	11	23	26	26	20	33	20	20	11	20	23	12	11
1.00	1.75	12	12	12	30	36	36	27	30	27	25	13	25	30	16	13
1.25	1.00	13	12	11	5	4	4	5	34	5	34	12	8	5	11	12
1.25	1.25	14	14	14	18	16	16	17	31	17	31	14	10	18	14	14
1.25	1.50	15	16	20	28	27	27	24	28	24	24	16	24	28	20	16
1.25	1.75	16	19	25	34	37	37	31	25	31	31	18	31	33	25	17
1.50	1.00	17	15	13	7	5	5	1	32	1	32	15	9	7	13	15
1.50	1.25	18	18	18	19	17	17	19	27	19	19	19	21	19	18	18
1.50	1.50	19	23	26	29	28	28	30	22	30	30	21	29	29	26	23
1.50	1.75	20	28	31	30	30	30	35	17	35	35	25	36	38	31	28
1.75	1.00	21	17	15	8	7	7	2	29	2	29	17	10	8	15	17
1.75	1.25	22	22	23	20	20	18	22	24	22	22	23	22	20	23	22
1.75	1.50	23	29	29	31	30	30	32	18	32	32	28	31	31	29	29
1.75	1.75	24	33	35	39	37	37	38	13	38	38	31	39	39	35	33
2.00	1.00	25	20	17	9	8	8	4	26	4	4	20	13	10	17	20
2.00	1.25	26	27	27	21	19	19	23	20	23	23	27	23	22	27	27
2.00	1.50	28	32	34	32	31	31	33	14	33	33	32	32	32	34	32
2.00	1.75	29	37	38	40	40	40	40	7	40	40	36	40	40	39	37
2.25	1.00	27	21	19	10	10	9	6	23	6	6	22	14	11	19	21
2.25	1.25	31	30	28	24	20	20	25	16	25	25	30	26	24	28	30
2.25	1.50	32	36	36	33	33	32	34	11	34	34	35	34	34	36	36
2.25	1.75	35	40	41	41	41	41	41	5	41	41	39	41	41	41	40
2.50	1.00	30	24	21	12	10	10	7	21	7	7	24	15	13	21	24
2.50	1.25	34	31	30	25	23	23	26	12	26	26	33	27	25	30	31
2.50	1.50	37	38	37	35	35	33	36	7	36	36	38	36	35	37	38
2.50	1.75	39	42	42	42	42	42	42	4	42	42	42	42	42	42	42
2.75	1.00	33	25	22	13	11	11	8	17	8	8	26	18	14	22	25
2.75	1.25	38	34	32	26	24	24	28	10	27	27	34	28	26	34	34
2.75	1.50	41	39	39	36	34	34	37	5	37	37	40	37	36	39	39
2.75	1.75	42	43	43	43	43	43	43	2	43	43	43	43	43	43	43
3.00	1.00	36	26	24	15	12	12	10	15	10	10	29	19	16	24	26
3.00	1.25	40	35	33	27	25	25	29	9	29	29	37	29	27	33	35
3.00	1.50	43	41	40	37	35	35	39	3	39	39	42	39	37	41	41
3.00	1.75	44	44	44	44	44	44	44	1	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

Window		Orientation															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	-	-	2	2	-	-	-	-	2	-	-	-	-	-	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

Window		Orientation															
Width-M	Height-M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	-	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	-	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	-	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	5	-	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	6	-	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	7	-	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	8	-	8	8	8	8	8	8	8
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

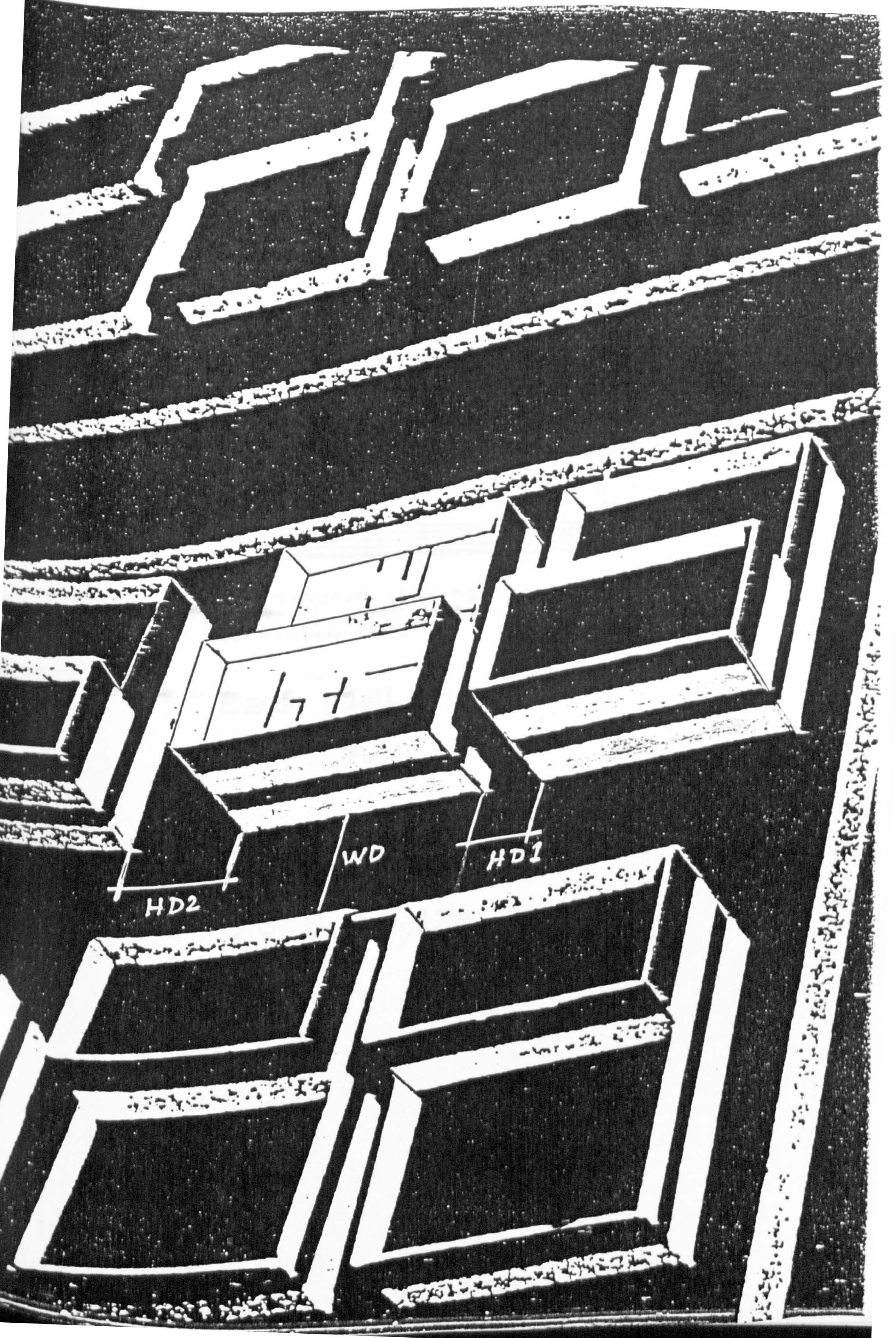
TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

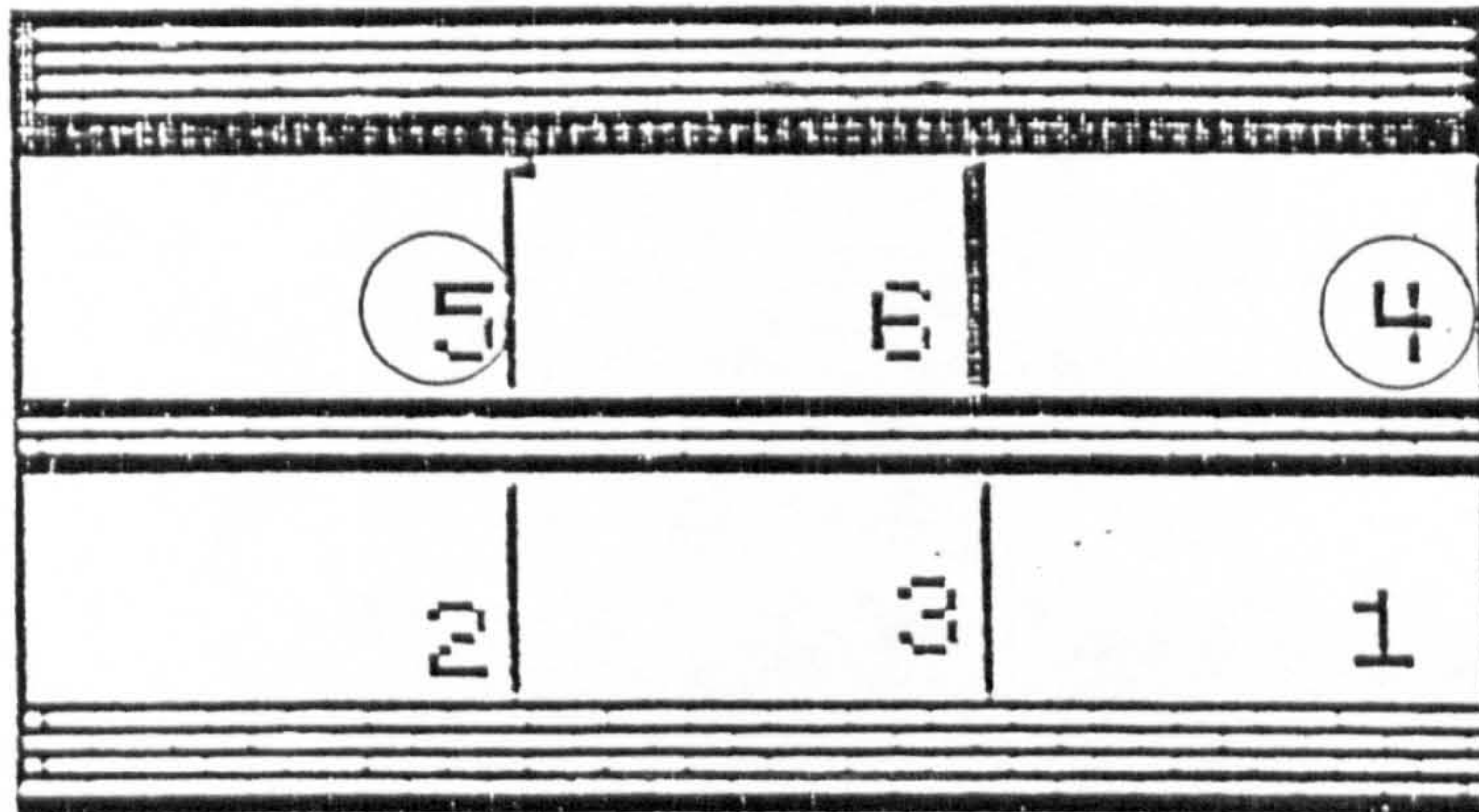
WALL THICKNESS = 0.24 M

WINDOW		ORIENTATION												TOTAL			
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	1	1	1	1	1
.50	1.25	2	2	3	3	2	2	-	-	-	-	-	2	2	-	2	2
.50	1.50	3	3	-	-	-	-	-	-	-	-	-	-	-	-	3	3
.50	1.75	4	4	-	-	-	-	-	-	-	-	-	-	-	4	4	4
.75	1.00	5	-	2	2	-	-	-	-	-	-	-	-	-	2	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	1	-	1	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

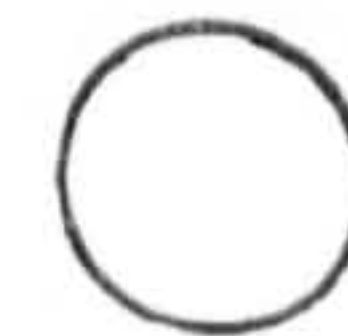
TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M





Key diagram showing the location of window data



Back Wall
2 Storey

Interhouse Distance

4, 6, 8 and 12m.

W I N D O W >		<<-----<<												>>----->>											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5								
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1								
.50	1.25	2	2	2	3	12	12	2	2	24	2	2	12	12	3	2	2								
.50	1.50	3	3	13	23	23	23	4	4	34	4	3	23	23	6	3	3								
.50	1.75	4	4	16	26	26	34	5	6	34	6	5	26	26	15	4	4								
.75	1.00	5	5	2	2	2	2	3	3	3	3	4	2	2	2	5	5								
.75	1.25	6	6	14	13	13	13	7	7	4	7	7	13	13	10	7	6								
.75	1.50	7	7	20	24	24	24	9	9	25	9	11	13	24	18	9	7								
.75	1.75	8	8	28	35	35	35	10	10	35	13	18	24	35	27	12	8								
1.00	1.00	9	9	4	3	3	3	6	5	5	5	6	3	3	4	6	9								
1.00	1.25	10	11	15	14	14	14	13	11	6	11	13	14	14	16	11	11								
1.00	1.50	11	13	26	25	25	25	20	17	26	17	20	25	25	24	20	13								
1.00	1.75	12	15	34	36	36	36	25	22	36	22	25	36	36	31	22	15								
1.25	1.00	13	10	5	4	4	4	8	8	7	8	8	4	4	5	8	10								
1.25	1.25	14	16	17	15	15	15	19	15	8	15	19	15	15	17	17	16								
1.25	1.50	15	22	27	27	27	26	24	23	27	23	24	26	27	28	24	22								
1.25	1.75	16	25	37	37	37	37	31	27	37	27	31	37	37	37	29	25								
1.50	1.00	17	12	6	5	5	5	9	10	9	10	9	5	5	7	10	12								
1.50	1.25	18	20	18	18	16	15	21	21	10	21	21	16	16	19	21	20								
1.50	1.50	19	26	29	29	28	27	30	26	28	26	29	27	28	29	27	26								
1.50	1.75	20	31	38	38	38	38	35	33	38	33	34	38	38	38	34	31								
1.75	1.00	21	14	7	6	6	6	10	12	11	12	10	6	6	8	13	14								
1.75	1.25	22	24	19	17	17	17	22	24	12	24	22	17	17	20	23	24								
1.75	1.50	24	30	30	29	29	28	32	30	29	30	32	28	29	30	32	30								
1.75	1.75	25	35	39	39	39	39	38	36	39	36	38	39	39	39	37	35								
2.00	1.00	23	17	8	7	7	7	12	14	13	14	12	7	7	14	14	17								
2.00	1.25	27	27	25	18	18	18	20	25	14	25	23	18	18	21	25	27								
2.00	1.50	28	34	33	31	30	29	33	34	14	34	33	29	30	32	33	34								
2.00	1.75	31	38	40	40	40	40	40	39	40	39	40	40	40	40	40	38								
2.25	1.00	26	18	9	8	8	8	14	16	15	16	14	8	8	11	15	18								
2.25	1.25	30	28	22	19	19	19	26	28	16	28	26	19	17	22	26	28								
2.25	1.50	33	36	32	32	31	30	34	35	31	35	35	30	31	33	35	36								
2.25	1.75	36	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41								
2.50	1.00	29	19	10	9	9	9	15	18	17	18	15	9	9	12	16	19								
2.50	1.25	34	27	23	20	20	20	27	27	18	27	27	20	20	23	28	29								
2.50	1.50	38	37	36	33	32	31	35	37	32	37	36	31	32	34	36	37								
2.50	1.75	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42								
2.75	1.00	32	21	11	10	10	10	16	19	19	19	16	10	10	13	18	21								
2.75	1.25	37	32	24	21	21	21	28	31	20	31	28	21	21	25	30	32								
2.75	1.50	41	39	38	35	33	32	37	38	23	38	37	32	33	35	38	39								
2.75	1.75	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43								
3.00	1.00	35	23	19	12	11	11	17	20	21	20	17	11	11	14	19	23								
3.00	1.25	39	33	31	25	22	22	29	32	22	32	30	22	22	26	31	33								
3.00	1.50	43	40	39	36	34	33	39	40	33	40	39	33	34	36	39	40								
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44								

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

Width.M	Height.M	W I N D O W > <<----->>-----<<														
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	11	2	12	2	12	2	2	2	2	2	2	2	2	2
.50	1.50	3	13	3	23	3	23	3	3	3	3	3	3	3	3	3
.50	1.75	4	16	4	34	4	34	4	4	4	4	4	4	4	4	4
.75	1.00	5	2	5	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.25	6	14	6	13	6	13	6	6	6	6	6	6	6	6	6
.75	1.50	7	20	7	24	7	24	7	7	7	7	7	7	7	7	7
.75	1.75	8	27	8	35	8	35	8	8	8	8	8	8	8	8	8
1.00	1.00	9	12	9	3	9	3	3	3	3	3	3	3	3	3	3
1.00	1.25	10	11	10	14	10	14	10	10	10	10	10	10	10	10	10
1.00	1.50	11	19	11	25	11	25	11	11	11	11	11	11	11	11	11
1.00	1.75	12	23	12	36	12	36	12	12	12	12	12	12	12	12	12
1.25	1.00	13	9	13	4	8	4	4	4	4	4	4	4	4	4	4
1.25	1.25	14	15	14	15	14	15	14	14	14	14	14	14	14	14	14
1.25	1.50	15	21	15	26	15	26	15	15	15	15	15	15	15	15	15
1.25	1.75	16	31	16	37	16	37	16	16	16	16	16	16	16	16	16
1.50	1.00	17	10	17	5	9	5	5	5	5	5	5	5	5	5	5
1.50	1.25	18	21	18	16	18	16	16	16	16	16	16	16	16	16	16
1.50	1.50	19	29	19	27	19	27	19	19	19	19	19	19	19	19	19
1.50	1.75	20	34	20	30	20	30	20	20	20	20	20	20	20	20	20
1.75	1.00	21	13	21	6	11	6	6	6	6	6	6	6	6	6	6
1.75	1.25	22	22	22	17	22	17	17	17	17	17	17	17	17	17	17
1.75	1.50	23	32	23	28	23	32	23	23	23	23	23	23	23	23	23
1.75	1.75	24	37	24	39	24	39	24	24	24	24	24	24	24	24	24
2.00	1.00	25	14	25	7	13	7	7	7	7	7	7	7	7	7	7
2.00	1.25	26	25	26	18	25	18	18	18	18	18	18	18	18	18	18
2.00	1.50	28	33	28	32	28	33	28	28	28	28	28	28	28	28	28
2.00	1.75	29	40	29	40	29	40	29	29	29	29	29	29	29	29	29
2.25	1.00	27	18	27	8	14	8	8	8	8	8	8	8	8	8	8
2.25	1.25	31	26	31	22	26	22	22	22	22	22	22	22	22	22	22
2.25	1.50	33	36	33	29	33	29	29	29	29	29	29	29	29	29	29
2.25	1.75	36	41	36	41	36	41	36	36	36	36	36	36	36	36	36
2.50	1.00	30	19	30	9	15	9	9	9	9	9	9	9	9	9	9
2.50	1.25	34	27	34	23	27	23	23	23	23	23	23	23	23	23	23
2.50	1.50	37	36	37	34	37	34	34	34	34	34	34	34	34	34	34
2.50	1.75	39	42	39	42	39	42	39	39	39	39	39	39	39	39	39
2.75	1.00	32	18	32	10	16	10	10	10	10	10	10	10	10	10	10
2.75	1.25	38	28	38	24	28	24	24	24	24	24	24	24	24	24	24
2.75	1.50	41	38	41	32	38	32	32	32	32	32	32	32	32	32	32
2.75	1.75	42	43	42	43	42	43	42	42	42	42	42	42	42	42	42
3.00	1.00	35	20	35	12	20	12	12	12	12	12	12	12	12	12	12
3.00	1.25	40	30	40	25	30	25	25	25	25	25	25	25	25	25	25
3.00	1.50	43	39	43	36	39	36	36	36	36	36	36	36	36	36	36
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

C U I N D O W >		<<-----<<											>>----->>										
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5						
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2						
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3						
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4						
.75	1.00	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2						
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.00	1.00	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3						
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.00	1.75	-	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4						
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.50	1.00	-	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5						
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.75	1.00	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6						
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.00	1.00	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7						
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.50	1.00	-	-	-	-	9	9	9	9	9	9	9	9	9	9	9	9						
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.75	1.00	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10						
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
3.00	1.00	-	-	-	-	11	11	11	11	11	11	11	11	11	11	11	11						
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-						

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

Width.M	Height.M	C H I N D O W >															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.25	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.75	1.50	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.75	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1.00	1.00	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1.00	1.25	10	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1.00	1.50	11	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.75	12	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.25	1.00	-	-	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1.25	1.25	-	-	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1.25	1.50	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1.25	1.75	-	-	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1.50	1.00	-	-	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.50	1.25	-	-	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.50	1.50	-	-	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1.50	1.75	-	-	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1.75	1.00	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6
1.75	1.25	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7
1.75	1.50	-	-	-	-	8	8	8	8	8	8	8	8	8	8	8	8
1.75	1.75	-	-	-	-	9	9	9	9	9	9	9	9	9	9	9	9
2.00	1.00	-	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10
2.00	1.25	-	-	-	-	11	11	11	11	11	11	11	11	11	11	11	11
2.00	1.50	-	-	-	-	12	12	12	12	12	12	12	12	12	12	12	12
2.00	1.75	-	-	-	-	13	13	13	13	13	13	13	13	13	13	13	13
2.25	1.00	-	-	-	-	14	14	14	14	14	14	14	14	14	14	14	14
2.25	1.25	-	-	-	-	15	15	15	15	15	15	15	15	15	15	15	15
2.25	1.50	-	-	-	-	16	16	16	16	16	16	16	16	16	16	16	16
2.25	1.75	-	-	-	-	17	17	17	17	17	17	17	17	17	17	17	17
2.50	1.00	-	-	-	-	18	18	18	18	18	18	18	18	18	18	18	18
2.50	1.25	-	-	-	-	19	19	19	19	19	19	19	19	19	19	19	19
2.50	1.50	-	-	-	-	20	20	20	20	20	20	20	20	20	20	20	20
2.50	1.75	-	-	-	-	21	21	21	21	21	21	21	21	21	21	21	21
2.75	1.00	-	-	-	-	22	22	22	22	22	22	22	22	22	22	22	22
2.75	1.25	-	-	-	-	23	23	23	23	23	23	23	23	23	23	23	23
2.75	1.50	-	-	-	-	24	24	24	24	24	24	24	24	24	24	24	24
2.75	1.75	-	-	-	-	25	25	25	25	25	25	25	25	25	25	25	25
3.00	1.00	-	-	-	-	26	26	26	26	26	26	26	26	26	26	26	26
3.00	1.25	-	-	-	-	27	27	27	27	27	27	27	27	27	27	27	27
3.00	1.50	-	-	-	-	28	28	28	28	28	28	28	28	28	28	28	28
3.00	1.75	-	-	-	-	29	29	29	29	29	29	29	29	29	29	29	29
		-	-	-	-	30	30	30	30	30	30	30	30	30	30	30	30
		-	-	-	-	31	31	31	31	31	31	31	31	31	31	31	31
		-	-	-	-	32	32	32	32	32	32	32	32	32	32	32	32
		-	-	-	-	33	33	33	33	33	33	33	33	33	33	33	33
		-	-	-	-	34	34	34	34	34	34	34	34	34	34	34	34
		-	-	-	-	35	35	35	35	35	35	35	35	35	35	35	35
		-	-	-	-	36	36	36	36	36	36	36	36	36	36	36	36
		-	-	-	-	37	37	37	37	37	37	37	37	37	37	37	37
		-	-	-	-	38	38	38	38	38	38	38	38	38	38	38	38
		-	-	-	-	39	39	39	39	39	39	39	39	39	39	39	39
		-	-	-	-	40	40	40	40	40	40	40	40	40	40	40	40
		-	-	-	-	41	41	41	41	41	41	41	41	41	41	41	41
		-	-	-	-	42	42	42	42	42	42	42	42	42	42	42	42
		-	-	-	-	43	43	43	43	43	43	43	43	43	43	43	43
		-	-	-	-	44	44	44	44	44	44	44	44	44	44	44	44

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

<<-----<< < W I N D O W > ----->>>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	9	2	2	12	2	2	9	12	3	2	2
.50	1.50	3	3	3	6	23	14	4	3	15	3	3	14	23	6	3	3
.50	1.75	4	4	4	15	26	25	6	4	24	4	4	25	26	15	4	4
.75	1.00	5	5	5	2	2	2	3	5	2	5	5	2	2	2	5	5
.75	1.25	6	6	6	10	13	13	8	6	13	6	6	13	13	10	6	6
.75	1.50	7	7	7	17	24	23	14	8	25	8	7	23	24	17	7	7
.75	1.75	8	7	12	24	35	29	19	9	29	9	9	29	35	24	8	8
1.00	1.00	9	8	7	4	3	3	5	7	3	7	8	3	3	4	7	9
1.00	1.25	10	11	16	16	14	15	13	11	14	11	10	15	14	16	11	10
1.00	1.50	11	13	17	22	25	21	21	14	26	14	12	26	25	22	17	12
1.00	1.75	12	16	30	30	36	27	27	18	36	18	14	36	36	30	14	14
1.25	1.00	13	10	5	5	4	4	7	10	4	10	11	4	4	5	11	11
1.25	1.25	14	14	10	10	15	18	18	15	16	15	15	16	15	18	16	15
1.25	1.50	15	20	28	28	27	25	25	22	27	22	17	27	27	28	23	17
1.25	1.75	16	25	34	34	37	32	32	26	37	26	21	37	37	34	28	21
1.50	1.00	17	12	7	7	5	9	9	12	5	12	13	5	5	7	10	13
1.50	1.25	18	19	17	17	16	20	20	20	17	20	17	17	16	17	21	18
1.50	1.50	20	27	29	29	28	30	30	27	29	27	24	28	28	29	27	24
1.50	1.75	21	32	38	38	38	35	35	31	38	31	28	38	38	38	33	28
1.75	1.00	19	15	8	8	6	10	10	13	6	13	16	6	6	8	13	16
1.75	1.25	22	24	20	20	17	22	22	24	18	24	23	18	17	20	24	22
1.75	1.50	24	30	31	31	29	31	31	30	30	30	29	30	29	31	24	29
1.75	1.75	26	36	36	39	39	39	39	36	39	36	33	39	39	39	36	34
2.00	1.00	23	17	14	9	7	11	11	16	7	16	18	7	7	9	14	19
2.00	1.25	27	26	25	21	18	23	23	25	19	25	27	19	18	21	25	27
2.00	1.50	29	34	34	32	30	33	33	33	31	33	32	31	30	34	34	32
2.00	1.75	32	39	40	40	40	40	40	38	40	38	37	40	40	40	40	37
2.25	1.00	25	18	15	11	8	12	12	17	8	17	20	9	8	11	15	20
2.25	1.25	30	28	26	23	19	24	24	28	20	28	30	20	19	23	26	30
2.25	1.50	35	35	35	33	31	34	34	35	32	35	36	32	31	33	35	36
2.25	1.75	36	41	41	41	41	41	41	40	41	40	40	41	41	41	41	40
2.50	1.00	28	21	18	12	9	15	15	19	9	19	22	10	9	12	18	23
2.50	1.25	34	29	29	25	20	26	26	27	21	29	31	21	20	25	29	31
2.50	1.50	38	37	37	35	32	36	36	37	33	37	38	33	32	35	37	38
2.50	1.75	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	31	22	19	13	10	16	16	21	10	21	25	11	10	13	19	25
2.75	1.25	37	31	30	26	21	28	28	32	22	32	34	22	21	26	30	33
2.75	1.50	41	38	38	36	33	37	37	39	34	39	39	34	33	36	38	39
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	33	23	20	14	11	17	17	23	11	23	26	12	11	14	20	26
3.00	1.25	39	33	32	27	22	29	29	34	23	34	35	24	22	27	32	35
3.00	1.50	42	40	39	37	34	38	38	41	35	41	41	35	34	37	39	41

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	11	11	11	11	11	11	11	11	11	11	11	11	11	11	10
1.00	1.50	11	13	13	13	13	13	13	13	13	13	13	13	13	13	13	12
1.00	1.75	12	15	15	15	15	15	15	15	15	15	15	15	15	15	15	13
1.25	1.00	13	10	10	10	10	10	10	10	10	10	10	10	10	10	10	11
1.25	1.25	14	16	16	16	16	16	16	16	16	16	16	16	16	16	16	15
1.25	1.50	15	22	22	22	22	22	22	22	22	22	22	22	22	22	22	17
1.25	1.75	16	25	25	25	25	25	25	25	25	25	25	25	25	25	25	20
1.50	1.00	17	12	12	12	12	12	12	12	12	12	12	12	12	12	12	14
1.50	1.25	18	20	20	20	20	20	20	20	20	20	20	20	20	20	20	19
1.50	1.50	19	26	26	26	26	26	26	26	26	26	26	26	26	26	26	24
1.50	1.75	20	31	31	31	31	31	31	31	31	31	31	31	31	31	31	28
1.75	1.00	21	14	13	13	13	13	13	13	13	13	13	13	13	13	13	16
1.75	1.25	22	24	23	23	23	23	23	23	23	23	23	23	23	23	23	23
1.75	1.50	24	30	32	32	32	32	32	32	32	32	32	32	32	32	32	29
1.75	1.75	25	35	37	37	37	37	37	37	37	37	37	37	37	37	37	33
2.00	1.00	23	17	14	14	14	14	14	14	14	14	14	14	14	14	14	18
2.00	1.25	26	27	25	25	25	25	25	25	25	25	25	25	25	25	25	27
2.00	1.50	28	34	33	33	33	33	33	33	33	33	33	33	33	33	33	32
2.00	1.75	30	38	40	40	40	40	40	40	40	40	40	40	40	40	40	37
2.25	1.00	27	18	15	11	11	11	11	11	11	11	11	11	11	11	11	21
2.25	1.25	31	28	25	22	22	22	22	22	22	22	22	22	22	22	22	30
2.25	1.50	33	36	35	33	33	33	33	33	33	33	33	33	33	33	33	36
2.25	1.75	36	41	41	41	41	41	41	41	41	41	41	41	41	41	41	37
2.50	1.00	29	19	16	12	12	12	12	12	12	12	12	12	12	12	12	22
2.50	1.25	34	29	28	23	23	23	23	23	23	23	23	23	23	23	23	31
2.50	1.50	37	37	36	34	34	34	34	34	34	34	34	34	34	34	34	38
2.50	1.75	39	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	32	21	18	13	13	13	13	13	13	13	13	13	13	13	13	25
2.75	1.25	38	32	30	25	25	25	25	25	25	25	25	25	25	25	25	34
2.75	1.50	41	39	38	35	35	35	35	35	35	35	35	35	35	35	35	40
2.75	1.75	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	35	23	19	14	14	14	14	14	14	14	14	14	14	14	14	26
3.00	1.25	40	33	31	26	26	26	26	26	26	26	26	26	26	26	26	35
3.00	1.50	43	40	39	36	36	36	36	36	36	36	36	36	36	36	36	41
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

< WINDOW > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1.00	1.50	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1.00	1.75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1.25	1.00	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
1.25	1.25	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1.25	1.50	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
1.25	1.75	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
1.50	1.00	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
1.50	1.25	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
1.50	1.50	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1.50	1.75	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1.75	1.00	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
1.75	1.25	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
1.75	1.50	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
1.75	1.75	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
2.00	1.00	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2.00	1.25	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26	26
2.00	1.50	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
2.00	1.75	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
2.25	1.00	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
2.25	1.25	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2.25	1.50	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2.25	1.75	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
2.50	1.00	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
2.50	1.25	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2.50	1.50	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2.50	1.75	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
2.75	1.00	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33
2.75	1.25	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
2.75	1.50	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
2.75	1.75	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
3.00	1.00	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
3.00	1.25	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
3.00	1.50	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< WINDOW >		>>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	4	4	4	4	4	4	4	4	4	4	4	4	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	5	5	5	5	5	5	5	5	5	5	5	5	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	8	8	8	8	8	8	8	8	8	8	8	8	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	9	9	9	9	9	9	9	9	9	9	9	9	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	10	10	10	10	10	10	10	10	10	10	10	10	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	11	11	11	11	11	11	11	11	11	11	11	11	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS=0.12M

Width.M	Height.M	NORTH		22.5		45.0		67.5		EAST		112.5		135.0		157.5		SOUTH		202.5		270.0		247.5		WEST		292.5		315.0		337.5		
		1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	
.50	1.00	1				1				1				1					1				1				1				1			
.50	1.25	2				2				2				2					2				2				2				2			
.50	1.50	3				3				3				3					3				3				3				3			
.50	1.75	4				4				4				4					4				4				4				4			
.75	1.00	5						2						3					2							2								
.75	1.25	6												4					3															
.75	1.50	7																	4															
.75	1.75	8																	5															
1.00	1.00									3									5															
1.00	1.25																		6															
1.00	1.50																		7															
1.00	1.75									4									8															
1.25	1.00																																	
1.25	1.25																																	
1.25	1.50																																	
1.25	1.75																																	
1.50	1.00																																	
1.50	1.25																																	
1.50	1.50																																	
1.50	1.75																																	
1.75	1.00																																	
1.75	1.25																																	
1.75	1.50																																	
1.75	1.75																																	
2.00	1.00																																	
2.00	1.25																																	
2.00	1.50																																	
2.00	1.75																																	
2.25	1.00																																	
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2.25	1.50																																	
2.25	1.75																																	
2.50	1.00																																	
2.50	1.25																																	
2.50	1.50																																	
2.50	1.75																																	
2.75	1.00																																	
2.75	1.25																																	
2.75	1.50																																	
2.75	1.75																																	
3.00	1.00																																	
3.00	1.25																																	
3.00	1.50																																	
3.00	1.75																																	

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	10	11	16	15	12	10	11	14	12	10	12	15	16	11	10
1.00	1.50	11	12	13	22	26	20	12	15	26	17	12	20	26	22	13	12
1.00	1.75	12	14	16	29	33	25	14	20	36	22	14	25	33	27	16	14
1.25	1.00	13	11	10	6	4	8	11	9	4	9	11	8	4	6	10	11
1.25	1.25	14	15	15	10	16	10	15	16	15	16	15	10	16	10	15	15
1.25	1.50	15	17	20	27	27	23	17	23	27	24	17	23	27	20	17	17
1.25	1.75	16	21	25	33	37	31	21	28	37	20	21	31	37	25	21	21
1.50	1.00	17	13	12	7	6	9	13	12	5	11	13	9	6	7	12	13
1.50	1.25	18	10	19	17	17	19	19	21	16	21	19	21	17	19	10	10
1.50	1.50	20	24	26	30	29	20	24	26	28	27	24	28	29	26	24	24
1.50	1.75	21	28	30	37	38	34	28	32	38	33	20	34	38	30	20	20
1.75	1.00	19	16	14	10	7	11	16	13	6	13	16	11	7	10	16	16
1.75	1.25	22	22	23	21	19	22	23	24	17	23	23	22	19	21	22	22
1.75	1.50	24	29	29	31	30	32	27	30	29	30	29	32	30	31	29	29
1.75	1.75	26	34	35	39	39	38	33	36	39	36	33	38	37	39	35	34
2.00	1.00	23	19	17	11	8	13	10	14	7	14	18	13	8	11	17	19
2.00	1.25	27	27	27	23	20	24	27	25	10	25	27	24	20	27	27	27
2.00	1.50	29	32	33	32	31	33	32	33	30	34	32	33	31	32	32	32
2.00	1.75	32	37	38	40	40	40	37	38	40	38	37	40	40	40	38	37
2.25	1.00	25	20	18	12	9	14	20	17	0	15	20	14	9	12	18	20
2.25	1.25	30	30	28	24	22	26	30	27	19	26	30	26	22	24	28	30
2.25	1.50	35	36	36	34	32	35	36	35	31	35	36	35	32	34	36	36
2.25	1.75	36	40	41	41	41	41	40	40	41	40	40	41	41	41	41	40
2.50	1.00	28	23	21	13	10	15	22	18	9	18	22	15	10	13	23	23
2.50	1.25	34	31	31	25	23	27	31	29	20	29	31	27	23	25	31	31
2.50	1.50	38	38	37	35	34	36	38	37	33	37	38	36	34	35	37	38
2.50	1.75	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	31	25	22	14	11	17	25	19	10	19	25	17	11	14	25	25
2.75	1.25	37	33	32	26	24	29	34	31	21	31	34	29	24	26	33	33
2.75	1.50	41	39	39	36	35	37	39	39	34	39	39	37	35	36	39	39
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	33	26	24	15	12	19	26	22	11	20	26	19	12	15	26	26
3.00	1.25	39	35	34	28	25	30	35	32	22	32	35	30	25	28	34	35
3.00	1.50	42	41	40	38	36	39	41	41	35	41	41	39	36	38	41	41

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

Width.M	Height.M	W I N D O W >														
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0
.50	1.00	1	1	1	1	1	1	1	33	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	3	32	3	3	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	4	31	4	4	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	7	34	8	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	2	22	2	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	17	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	10	30	10	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	14	35	17	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	5	10	5	9	9	9	9	9	9
1.00	1.25	10	10	10	10	10	10	11	16	12	10	10	10	10	10	10
1.00	1.50	11	11	11	11	11	11	10	29	10	12	12	12	12	12	12
1.00	1.75	12	12	12	12	12	12	20	29	20	20	20	20	20	20	20
1.25	1.00	13	13	13	13	13	13	23	36	24	24	25	25	25	25	25
1.25	1.25	14	14	14	14	14	14	8	17	7	11	8	4	6	10	11
1.25	1.50	15	15	15	15	15	15	16	14	16	14	19	16	10	15	15
1.25	1.75	16	16	16	16	16	16	22	20	22	16	24	27	28	21	17
1.50	1.00	17	17	17	17	17	17	28	37	29	20	31	37	34	25	20
1.50	1.25	18	18	18	18	18	18	9	15	9	15	9	5	7	12	14
1.50	1.50	19	19	19	19	19	19	21	12	21	18	21	17	19	19	19
1.50	1.75	20	20	20	20	20	20	26	27	26	21	26	29	29	26	24
1.75	1.00	21	21	21	21	21	21	30	38	30	24	30	38	38	31	28
1.75	1.25	22	22	22	22	22	22	12	13	11	17	10	6	10	14	16
1.75	1.50	23	23	23	23	23	23	24	10	23	22	22	18	20	24	23
1.75	1.75	24	24	24	24	24	24	31	26	32	27	32	30	31	29	29
2.00	1.00	25	25	25	25	25	25	36	37	37	31	38	37	39	35	33
2.00	1.25	26	26	26	26	26	26	13	11	13	20	13	8	11	17	18
2.00	1.50	27	27	27	27	27	27	25	7	25	26	23	19	23	27	27
2.00	1.75	28	28	28	28	28	28	34	25	34	32	33	31	32	33	32
2.25	1.00	29	29	29	29	29	29	40	40	40	35	40	40	40	38	37
2.25	1.25	30	30	30	30	30	30	14	9	14	23	14	9	12	18	21
2.25	1.50	31	31	31	31	31	31	27	5	27	30	26	21	24	28	30
2.25	1.75	32	32	32	32	32	32	35	24	35	34	35	31	33	36	36
2.50	1.00	33	33	33	33	33	33	41	41	41	39	41	41	41	41	39
2.50	1.25	34	34	34	34	34	34	17	0	15	25	15	10	13	20	22
2.50	1.50	35	35	35	35	35	35	27	3	27	32	27	22	25	30	31
2.50	1.75	36	36	36	36	36	36	37	23	36	38	36	33	35	37	38
2.75	1.00	37	37	37	37	37	37	42	42	42	41	42	42	42	42	42
2.75	1.25	38	38	38	38	38	38	19	6	18	28	16	11	14	22	25
2.75	1.50	39	39	39	39	39	39	30	2	30	36	20	16	25	34	34
2.75	1.75	40	40	40	40	40	40	38	21	38	40	37	34	36	40	40
3.00	1.00	41	41	41	41	41	41	43	43	43	43	43	43	43	43	43
3.00	1.25	42	42	42	42	42	42	20	4	19	43	18	12	15	23	26
3.00	1.50	43	43	43	43	43	43	32	1	31	44	30	25	27	34	35
3.00	1.75	44	44	44	44	44	44	39	20	39	44	37	36	37	40	41
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

<-----<< < W I N D O W > ----->>----->

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
1.00	1.00	1	1	1	1	1	1	1	17	44	17	1	1	1	1	1	1
1.25	1.25	2	2	2	3	5	2	2	14	43	15	2	2	5	2	2	2
1.50	1.50	3	3	3	4	14	3	3	13	42	13	3	3	14	3	3	3
1.75	1.75	4	4	4	10	21	4	4	11	40	11	4	4	21	4	4	4
1.00	1.00	5	5	5	2	2	5	5	12	41	12	5	5	2	5	5	5
1.25	1.25	6	6	6	9	13	6	6	2	39	3	6	6	13	6	6	6
1.50	1.50	7	7	7	17	22	7	7	16	37	16	7	7	17	7	7	7
1.75	1.75	8	8	8	21	29	8	8	19	34	21	8	8	21	8	8	8
1.00	1.00	9	9	9	4	3	9	9	7	38	8	9	9	3	9	9	9
1.25	1.25	10	10	10	16	15	10	10	15	35	14	10	10	15	10	10	10
1.50	1.50	11	11	11	22	26	11	11	21	32	20	11	11	26	11	11	11
1.75	1.75	12	12	12	29	36	12	12	26	29	27	12	12	36	12	12	12
1.00	1.00	13	13	13	6	4	13	13	4	36	5	13	13	4	13	13	13
1.25	1.25	14	14	14	10	16	14	14	18	31	18	14	14	16	14	14	14
1.50	1.50	15	15	15	28	27	15	15	23	27	24	15	15	27	15	15	15
1.75	1.75	16	16	16	33	37	16	16	31	24	31	16	16	37	16	16	16
1.00	1.00	17	17	17	7	5	17	17	1	33	1	17	17	5	17	17	17
1.25	1.25	18	18	18	17	17	18	18	20	28	19	18	18	17	18	18	18
1.50	1.50	19	19	19	30	28	19	19	20	22	29	19	19	28	19	19	19
1.75	1.75	20	20	20	38	38	20	20	34	18	35	20	20	38	20	20	20
1.00	1.00	21	21	21	8	7	21	21	3	30	2	21	21	7	21	21	21
1.25	1.25	22	22	22	20	18	22	22	22	25	22	22	22	18	22	22	22
1.50	1.50	23	23	23	31	30	23	23	32	19	32	23	23	30	23	23	23
1.75	1.75	24	24	24	39	39	24	24	37	15	37	24	24	39	24	24	24
2.00	2.00	25	25	25	11	8	25	25	5	26	4	25	25	8	25	25	25
2.25	2.25	26	26	26	23	19	26	26	24	20	23	26	26	19	26	26	26
2.50	2.50	27	27	27	32	31	27	27	33	14	33	27	27	31	27	27	27
2.75	2.75	28	28	28	40	40	28	28	39	7	40	28	28	40	28	28	28
3.00	3.00	29	29	29	12	9	29	29	6	23	6	29	29	9	29	29	29
3.25	3.25	30	30	30	24	20	30	30	25	16	25	30	30	20	30	30	30
3.50	3.50	31	31	31	34	32	31	31	35	11	34	31	31	32	31	31	31
3.75	3.75	32	32	32	41	41	32	32	41	6	41	32	32	41	32	32	32
4.00	4.00	33	33	33	13	10	33	33	8	21	7	33	33	10	33	33	33
4.25	4.25	34	34	34	25	23	34	34	27	12	26	34	34	23	34	34	34
4.50	4.50	35	35	35	35	33	35	35	36	7	36	35	35	33	35	35	35
4.75	4.75	36	36	36	42	42	36	36	42	4	42	36	36	42	36	36	36
5.00	5.00	37	37	37	14	11	37	37	9	17	9	37	37	11	37	37	37
5.25	5.25	38	38	38	24	24	38	38	29	10	28	38	38	24	38	38	38
5.50	5.50	39	39	39	34	34	39	39	38	5	38	39	39	34	39	39	39
5.75	5.75	40	40	40	43	43	40	40	43	2	43	40	40	43	40	40	40
6.00	6.00	41	41	41	15	12	41	41	10	15	10	41	41	12	41	41	41
6.25	6.25	42	42	42	25	25	42	42	27	12	26	42	42	25	42	42	42
6.50	6.50	43	43	43	35	35	43	43	36	7	36	43	43	35	43	43	43
6.75	6.75	44	44	44	42	42	44	44	42	4	42	44	44	42	44	44	44
7.00	7.00	45	45	45	14	14	45	45	9	17	9	45	45	14	45	45	45
7.25	7.25	46	46	46	24	24	46	46	29	10	28	46	46	24	46	46	46
7.50	7.50	47	47	47	34	34	47	47	38	5	38	47	47	34	47	47	47
7.75	7.75	48	48	48	43	43	48	48	43	2	43	48	48	43	48	48	48
8.00	8.00	49	49	49	12	12	49	49	10	15	10	49	49	12	49	49	49
8.25	8.25	50	50	50	25	25	50	50	30	8	30	50	50	25	50	50	50
8.50	8.50	51	51	51	35	35	51	51	39	15	39	51	51	35	51	51	51
8.75	8.75	52	52	52	42	42	52	52	40	3	40	52	52	42	52	52	52
9.00	9.00	53	53	53	13	13	53	53	5	26	4	53	53	13	53	53	53
9.25	9.25	54	54	54	23	23	54	54	24	20	23	54	54	23	54	54	54
9.50	9.50	55	55	55	33	33	55	55	33	14	33	55	55	33	55	55	55
9.75	9.75	56	56	56	40	40	56	56	39	7	40	56	56	40	56	56	56
10.00	10.00	57	57	57	12	9	57	57	6	23	6	57	57	9	57	57	57
10.25	10.25	58	58	58	24	20	58	58	25	16	25	58	58	20	58	58	58
10.50	10.50	59	59	59	34	32	59	59	35	11	34	59	59	32	59	59	59
10.75	10.75	60	60	60	41	41	60	60	41	6	41	60	60	41	60	60	60
11.00	11.00	61	61	61	13	10	61	61	8	21	7	61	61	10	61	61	61
11.25	11.25	62	62	62	25	23	62	62	27	12	26	62	62	23	62	62	62
11.50	11.50	63	63	63	35	33	63	63	36	7	36	63	63	35	63	63	63
11.75	11.75	64	64	64	42	42	64	64	42	4	42	64	64	42	64	64	64
12.00	12.00	65	65	65	14	11	65	65	9	17	9	65	65	11	65	65	65
12.25	12.25	66	66	66	24	24	66	66	29	10	28	66	66	24	66	66	66
12.50	12.50	67	67	67	34	34	67	67	38	5	38	67	67	34	67	67	67
12.75	12.75	68	68	68	43	43	68	68	43	2	43	68	68	43	68	68	68
13.00	13.00	69	69	69	15	12	69	69	10	15	10	69	69	12	69	69	69
13.25	13.25	70	70	70	25	25	70	70	30	8	30	70	70	25	70	70	70
13.50	13.50	71	71	71	35	35	71	71	39	15	39	71	71	35	71	71	71
13.75	13.75	72	72	72	42	42	72	72	40	3	40	72	72	42	72	72	72
14.00	14.00	73	73	73	13	13	73	73	5	26	4	73	73	13	73	73	73
14.25	14.25	74	74	74	23	19	74	74	24	20	23	74	74	19	74	74	74
14.50	14.50	75	75	75	33	31	75	75	33	14	33	75	75	31	75	75	75
14.75	14.75	76	76	76	40	40	76	76	39	7	40	76	76	40	76	76	76
15.00	15.00	77	77	77	12	9	77	77	6	23	6	77	77	9	77	77	77
15.25	15.25	78	78	78	24	20	78	78	25	16	25	78	78	20	78	78	78
15.50	15.50	79	79	79	34	32	79	79	35	11	34	79	79	32	79	79	79
15.75	15.75	80	80	80	41	41	80	80	41	6	41	80	80	41	80	80	80
16.00	16.00	81	81	81	13	10	81	81	8	21	7	81	81	10	81	81	81
16.25	16.25	82	82	82	25	23	82	82	27	12	26	82	82	23	82	82	82
16.50	16.50	83	83	83	35	33	83	83	36	7	36	83	83	35	83	83	83
16.75	16.75	84	84	84	42	42	84	84	42	4	42	84	84	42	84	84	84
17.00	17.00	85	85	85	14	11	85	85	9	17	9	85	85	11	85	85	85
17.25	17.25	86	86	86	24	24	86	86	29	10	28	86	86	24	86	86	86
17.50	17.50	87	87	87	34	34	87	87	38	5	38	87	87	34	87	87	87
17.75	17.75	88	88	88	43	43	88	88	43	2	43	88	88	43	88	88	88
18.00	18.00	89	89	89	15	12	89	89	10	15	10	89	89	12	89	89	89
18.25	18.25	90	90	90	25	25	90	90	30	8	30	90	90	25	90	90	90
18.50	18.50	91	91	91													

< WINDOW >		-----<< >>-----																				
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	N	157.5	SOUTH	202.5	I	270.0	O	247.5	S	WEST	292.5	315.0	337.5	
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	-	-	-	2	-	-	-	2	-	-	-	-	-	-	-	-	2	-	-	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

< WINDOW >		<<-----<<				>>----->>											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	-	-	-	2	2	-	2	2	2
.50	1.50	3	3	3	-	-	-	-	-	-	-	-	-	-	-	3	3
.50	1.75	4	4	4	3	2	-	-	-	-	-	-	-	2	-	4	4
.75	1.00	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	3	-	-	-	-	-	-	-	3	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< WINDOW >		-----<< >>-----															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	1	1	1	1	1
.50	1.25	2	2	2	3	3	2	-	-	-	-	-	2	-	3	2	2
.50	1.50	3	3	3	-	-	-	-	-	-	-	-	-	-	-	3	3
.50	1.75	4	4	4	2	2	-	-	-	-	-	-	-	2	-	4	4
.75	1.00	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	-	3	-	-	-	-	-	-	-	3	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEGT	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	2	2	2	12	2	2	2	2	2	2	2
.50	1.50	3	3	3	5	23	4	4	4	23	3	3	3	4	5	3	3
.50	1.75	4	4	4	11	26	5	5	5	25	4	4	4	6	9	4	4
.75	1.00	5	5	5	2	2	3	3	3	2	4	5	5	3	3	5	5
.75	1.25	6	6	6	8	13	7	6	6	13	6	6	6	7	8	6	6
.75	1.50	7	7	7	17	24	10	9	9	24	8	7	7	13	17	8	7
.75	1.75	8	8	8	21	35	16	12	12	35	10	9	9	19	20	9	8
1.00	1.00	9	9	7	4	3	6	7	7	3	7	8	7	5	4	7	9
1.00	1.25	10	10	11	16	14	12	10	11	14	11	10	11	12	16	11	10
1.00	1.50	11	12	13	22	25	20	12	19	26	15	12	13	21	22	13	12
1.00	1.75	12	14	16	27	36	25	14	22	36	21	14	16	27	29	16	14
1.25	1.00	13	11	10	6	4	8	11	8	4	9	11	10	8	6	10	11
1.25	1.25	14	15	15	10	15	19	15	17	15	17	15	15	18	18	15	15
1.25	1.50	15	17	20	28	27	23	17	24	27	23	17	20	24	27	20	17
1.25	1.75	16	21	25	33	37	31	21	29	37	28	21	25	32	33	25	21
1.50	1.00	17	13	12	7	5	9	13	10	5	12	13	12	9	7	12	13
1.50	1.25	18	18	19	17	16	19	19	21	16	20	19	19	20	19	19	18
1.50	1.50	20	24	26	30	28	28	24	27	28	27	24	26	30	30	26	24
1.50	1.75	21	28	30	30	38	34	20	34	38	32	20	30	35	37	30	28
1.75	1.00	19	16	14	9	6	11	16	13	6	13	16	14	10	10	14	16
1.75	1.25	22	22	23	20	17	22	23	23	17	24	23	23	22	23	23	22
1.75	1.50	24	29	29	31	29	32	29	31	29	30	29	29	31	31	29	29
1.75	1.75	26	34	35	37	39	38	33	36	39	36	33	35	39	39	35	34
2.00	1.00	23	19	17	10	7	13	10	14	7	14	18	17	11	17	17	19
2.00	1.25	27	27	27	23	18	24	27	25	18	25	27	27	23	27	27	27
2.00	1.50	29	32	33	32	30	33	32	33	30	34	32	33	33	33	33	32
2.00	1.75	32	37	38	40	40	40	37	38	40	38	37	38	40	40	38	37
2.25	1.00	25	20	18	12	8	14	20	15	8	16	20	18	14	12	18	20
2.25	1.25	30	30	29	24	19	26	30	26	19	26	30	28	25	24	28	30
2.25	1.50	35	36	36	34	31	35	36	35	31	35	36	36	34	34	36	36
2.25	1.75	36	40	41	41	41	41	40	40	41	40	40	41	41	41	41	40
2.50	1.00	28	23	21	13	9	15	22	16	9	18	22	21	15	13	21	23
2.50	1.25	34	31	31	25	20	27	31	28	20	29	31	31	26	25	31	31
2.50	1.50	38	38	37	35	32	38	38	37	32	37	38	37	36	35	37	38
2.50	1.75	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	31	25	22	14	10	17	25	18	10	19	25	22	16	14	25	25
2.75	1.25	37	33	32	26	21	29	34	30	21	31	34	32	28	26	32	33
2.75	1.50	41	39	39	36	33	37	39	39	33	39	39	39	37	36	39	39
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	33	26	24	15	11	19	26	20	11	22	26	24	17	15	26	26
3.00	1.25	39	35	34	27	22	30	35	32	22	33	35	34	27	20	34	35
3.00	1.50	42	41	40	37	34	39	41	41	34	41	41	40	38	30	40	41

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

< W I N D O W > -----<< >>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	33	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	2	3	3	31	3	2	2	2	2	2	2
.50	1.50	3	3	3	5	23	4	5	5	32	4	3	3	4	3	3	3
.50	1.75	4	4	4	11	29	5	9	9	34	8	4	4	6	9	4	4
.75	1.00	5	5	2	2	2	3	2	2	26	2	5	5	3	3	5	5
.75	1.25	6	6	8	8	13	7	7	7	19	6	6	6	8	8	6	6
.75	1.50	7	7	17	17	24	11	11	11	30	10	7	8	14	17	7	7
.75	1.75	8	8	24	24	35	17	17	17	35	15	8	9	19	21	8	8
1.00	1.00	9	9	4	4	3	6	9	4	18	5	9	7	5	4	7	9
1.00	1.25	10	10	16	16	14	12	10	12	17	11	10	11	13	16	11	10
1.00	1.50	11	12	22	22	25	20	12	20	29	19	12	13	21	22	13	12
1.00	1.75	12	13	30	30	36	25	13	25	36	24	13	16	27	30	16	13
1.25	1.00	13	11	6	6	4	8	11	6	16	7	11	10	7	6	10	11
1.25	1.25	14	15	10	10	15	13	15	17	14	16	15	15	18	18	15	15
1.25	1.50	15	17	28	28	26	24	17	23	28	22	17	20	25	28	21	17
1.25	1.75	16	20	35	35	37	31	20	30	37	28	20	25	32	34	25	20
1.50	1.00	17	14	7	7	5	9	14	8	15	9	14	12	9	7	12	14
1.50	1.25	18	19	17	17	16	21	18	21	12	21	18	19	20	17	19	17
1.50	1.50	19	24	29	29	27	29	23	27	27	26	23	26	30	29	26	24
1.50	1.75	20	28	38	38	38	34	28	34	38	33	28	31	35	33	31	28
1.75	1.00	21	16	9	9	6	10	16	10	13	12	16	14	10	10	14	16
1.75	1.25	22	23	20	20	17	22	22	22	10	23	22	24	22	20	24	23
1.75	1.50	24	29	31	31	28	32	29	32	25	31	29	29	31	31	29	29
1.75	1.75	25	33	39	39	39	39	32	38	39	37	32	35	37	37	35	33
2.00	1.00	23	18	10	10	7	13	19	13	11	13	19	17	11	11	17	18
2.00	1.25	26	27	21	21	18	23	27	24	7	25	26	27	23	23	27	27
2.00	1.50	28	32	32	32	30	33	33	33	24	34	33	33	33	33	33	32
2.00	1.75	30	37	40	40	40	40	37	40	40	40	37	38	40	40	38	37
2.25	1.00	27	21	12	12	8	14	21	14	9	14	21	18	12	12	18	21
2.25	1.25	31	30	23	23	19	26	30	26	5	27	30	28	24	24	28	30
2.25	1.50	33	36	36	33	31	35	35	35	23	35	35	36	34	36	36	36
2.25	1.75	36	39	41	41	41	41	39	41	41	41	39	41	41	41	41	39
2.50	1.00	29	22	13	13	9	15	24	15	8	17	24	21	15	13	20	22
2.50	1.25	34	31	25	25	20	27	31	28	3	29	31	30	26	25	30	31
2.50	1.50	37	38	34	34	32	36	38	36	22	36	38	37	36	37	37	38
2.50	1.75	39	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	32	25	14	14	10	16	25	16	6	18	25	22	16	14	22	25
2.75	1.25	38	34	26	26	21	28	34	29	2	30	34	32	28	26	34	34
2.75	1.50	41	40	36	36	33	37	40	37	21	38	40	39	37	36	39	40
2.75	1.75	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	35	26	15	15	11	18	26	18	4	20	27	23	17	15	23	26
3.00	1.25	40	35	27	27	22	30	35	31	1	32	36	34	27	27	34	35
3.00	1.50	43	41	37	37	34	39	41	39	20	39	41	40	38	37	40	41
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
1.50	1.00	1	1	1	1	1	1	1	18	44	17	1	1	1	1	1	1
1.50	1.25	2	2	2	3	12	2	2	16	43	15	2	2	2	3	2	2
1.50	1.50	3	3	3	6	23	3	3	13	42	13	3	3	4	5	3	3
1.50	1.75	4	4	4	14	34	4	4	12	41	12	4	4	6	10	4	4
1.75	1.00	5	5	5	2	2	5	5	11	40	11	4	5	3	2	5	5
1.75	1.25	6	6	6	11	13	6	6	3	37	2	5	6	7	7	6	6
1.75	1.50	7	7	7	17	24	7	7	15	37	16	7	7	11	17	7	7
1.75	1.75	8	8	8	22	35	8	8	21	36	21	8	8	19	21	8	8
1.00	1.00	9	9	9	4	3	9	9	9	38	7	9	7	5	4	9	9
1.00	1.25	10	10	10	16	14	10	10	14	35	14	10	10	12	16	10	10
1.00	1.50	11	11	11	23	25	11	11	20	33	20	11	16	20	22	12	11
1.00	1.75	12	12	12	30	36	12	12	28	30	26	13	23	26	29	16	13
1.25	1.00	13	13	13	5	4	13	13	5	34	4	12	9	8	6	11	12
1.25	1.25	14	14	14	18	15	14	14	17	31	18	14	14	18	10	14	14
1.25	1.50	15	15	15	28	26	15	15	24	20	23	16	24	24	28	20	16
1.25	1.75	16	16	16	34	37	16	16	31	25	31	18	30	32	33	25	17
1.50	1.00	17	17	17	7	5	17	17	1	32	1	15	12	9	7	13	15
1.50	1.25	18	18	18	19	16	18	18	19	27	19	19	18	21	19	10	10
1.50	1.50	19	19	19	29	27	19	19	30	22	28	23	27	29	30	26	23
1.50	1.75	20	20	20	38	30	20	20	35	19	34	27	34	36	38	31	28
1.75	1.00	21	21	21	8	6	21	21	2	29	3	17	13	10	8	15	17
1.75	1.25	22	22	22	20	17	22	22	22	24	22	22	22	22	20	23	22
1.75	1.50	23	23	23	31	28	23	23	32	18	32	28	32	31	31	29	29
1.75	1.75	24	24	24	39	39	24	24	38	13	37	32	37	39	37	35	33
2.00	1.00	25	25	25	9	7	25	25	4	26	5	20	15	13	11	17	20
2.00	1.25	26	26	26	21	18	26	26	23	20	24	25	25	23	23	27	27
2.00	1.50	27	27	27	32	29	27	27	33	14	33	31	33	33	32	34	32
2.00	1.75	28	28	28	40	40	28	28	40	9	40	36	40	40	40	38	37
2.25	1.00	29	29	29	10	0	29	29	6	23	6	21	17	14	12	19	21
2.25	1.25	30	30	30	24	19	30	30	25	16	25	30	26	25	24	28	30
2.25	1.50	31	31	31	33	30	31	31	34	11	35	35	35	34	34	36	36
2.25	1.75	32	32	32	41	41	32	32	41	6	41	37	41	41	41	41	40
2.50	1.00	33	33	33	12	9	33	33	7	21	8	24	19	15	13	24	24
2.50	1.25	34	34	34	25	20	34	34	26	12	27	33	20	27	25	31	31
2.50	1.50	35	35	35	35	31	35	35	35	7	36	38	36	35	35	38	38
2.50	1.75	36	36	36	42	42	36	36	42	4	42	41	42	42	42	42	42
2.75	1.00	37	37	37	13	10	37	37	8	17	9	26	20	16	14	25	25
2.75	1.25	38	38	38	26	21	38	38	27	10	29	34	27	28	26	34	34
2.75	1.50	39	39	39	36	32	39	39	37	5	38	40	38	37	36	39	39
2.75	1.75	40	40	40	43	43	40	40	43	2	43	43	43	43	43	43	43
3.00	1.00	41	41	41	15	11	41	41	10	15	10	27	21	17	15	24	26
3.00	1.25	42	42	42	27	22	42	42	29	8	30	27	31	30	27	24	26
3.00	1.50	43	43	43	37	33	43	43	39	3	39	42	39	38	36	39	39
3.00	1.75	44	44	44	44	44	44	44	44	1	44	44	44	44	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

WINDOW >		NORTH		22.5		45.0		67.5		EAST		112.5		135.0		157.5		SOUTH		202.5		270.0		247.5		WEST		292.5		315.0		337.5					
Width.M	Height.M	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
.50	1.00	1				1				1				1				1				1				1				1							
.50	1.25	2				2				2				2				2				2				2				2							
.50	1.50	3				3				3				3				3				3				3				3							
.50	1.75	4				4				4				4				4				4				4				4							
.75	1.00					2								2																							
.75	1.25																																				
.75	1.50																																				
.75	1.75																																				
1.00	1.00																																				
1.00	1.25																																				
1.00	1.50																																				
1.00	1.75																																				
1.25	1.00																																				
1.25	1.25																																				
1.25	1.50																																				
1.25	1.75																																				
1.50	1.00																																				
1.50	1.25																																				
1.50	1.50																																				
1.50	1.75																																				
1.75	1.00																																				
1.75	1.25																																				
1.75	1.50																																				
1.75	1.75																																				
2.00	1.00																																				
2.00	1.25																																				
2.00	1.50																																				
2.00	1.75																																				
2.25	1.00																																				
2.25	1.25																																				
2.25	1.50																																				
2.25	1.75																																				
2.50	1.00																																				
2.50	1.25																																				
2.50	1.50																																				
2.50	1.75																																				
2.75	1.00																																				
2.75	1.25																																				
2.75	1.50																																				
2.75	1.75																																				
3.00	1.00																																				
3.00	1.25																																				
3.00	1.50																																				

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

Window	Width.M	Height.M	NORTH				EAST				SOUTH				WEST			
			22.5	45.0	67.5	112.5	135.0	157.5	202.5	270.0	247.5	292.5	315.0	337.5				
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1		
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
.75	1.00	5	2	2	2	2	2	2	2	2	2	2	2	2	2	2		
.75	1.25	6	3	3	3	3	3	3	3	3	3	3	3	3	3	3		
.75	1.50	7	4	4	4	4	4	4	4	4	4	4	4	4	4	4		
.75	1.75	8	5	5	5	5	5	5	5	5	5	5	5	5	5	5		
1.00	1.00	9	6	6	6	6	6	6	6	6	6	6	6	6	6	6		
1.00	1.25	10	7	7	7	7	7	7	7	7	7	7	7	7	7	7		
1.00	1.50	11	8	8	8	8	8	8	8	8	8	8	8	8	8	8		
1.00	1.75	12	9	9	9	9	9	9	9	9	9	9	9	9	9	9		
1.25	1.00	13	10	10	10	10	10	10	10	10	10	10	10	10	10	10		
1.25	1.25	14	11	11	11	11	11	11	11	11	11	11	11	11	11	11		
1.25	1.50	15	12	12	12	12	12	12	12	12	12	12	12	12	12	12		
1.25	1.75	16	13	13	13	13	13	13	13	13	13	13	13	13	13	13		
1.50	1.00	17	14	14	14	14	14	14	14	14	14	14	14	14	14	14		
1.50	1.25	18	15	15	15	15	15	15	15	15	15	15	15	15	15	15		
1.50	1.50	19	16	16	16	16	16	16	16	16	16	16	16	16	16	16		
1.50	1.75	20	17	17	17	17	17	17	17	17	17	17	17	17	17	17		
1.75	1.00	21	18	18	18	18	18	18	18	18	18	18	18	18	18	18		
1.75	1.25	22	19	19	19	19	19	19	19	19	19	19	19	19	19	19		
1.75	1.50	23	20	20	20	20	20	20	20	20	20	20	20	20	20	20		
1.75	1.75	24	21	21	21	21	21	21	21	21	21	21	21	21	21	21		
2.00	1.00	25	22	22	22	22	22	22	22	22	22	22	22	22	22	22		
2.00	1.25	26	23	23	23	23	23	23	23	23	23	23	23	23	23	23		
2.00	1.50	27	24	24	24	24	24	24	24	24	24	24	24	24	24	24		
2.00	1.75	28	25	25	25	25	25	25	25	25	25	25	25	25	25	25		
2.25	1.00	29	26	26	26	26	26	26	26	26	26	26	26	26	26	26		
2.25	1.25	30	27	27	27	27	27	27	27	27	27	27	27	27	27	27		
2.25	1.50	31	28	28	28	28	28	28	28	28	28	28	28	28	28	28		
2.25	1.75	32	29	29	29	29	29	29	29	29	29	29	29	29	29	29		
2.50	1.00	33	30	30	30	30	30	30	30	30	30	30	30	30	30	30		
2.50	1.25	34	31	31	31	31	31	31	31	31	31	31	31	31	31	31		
2.50	1.50	35	32	32	32	32	32	32	32	32	32	32	32	32	32	32		
2.50	1.75	36	33	33	33	33	33	33	33	33	33	33	33	33	33	33		
2.75	1.00	37	34	34	34	34	34	34	34	34	34	34	34	34	34	34		
2.75	1.25	38	35	35	35	35	35	35	35	35	35	35	35	35	35	35		
2.75	1.50	39	36	36	36	36	36	36	36	36	36	36	36	36	36	36		
2.75	1.75	40	37	37	37	37	37	37	37	37	37	37	37	37	37	37		
3.00	1.00	41	38	38	38	38	38	38	38	38	38	38	38	38	38	38		
3.00	1.25	42	39	39	39	39	39	39	39	39	39	39	39	39	39	39		
3.00	1.50	43	40	40	40	40	40	40	40	40	40	40	40	40	40	40		
3.00	1.75	44	41	41	41	41	41	41	41	41	41	41	41	41	41	41		

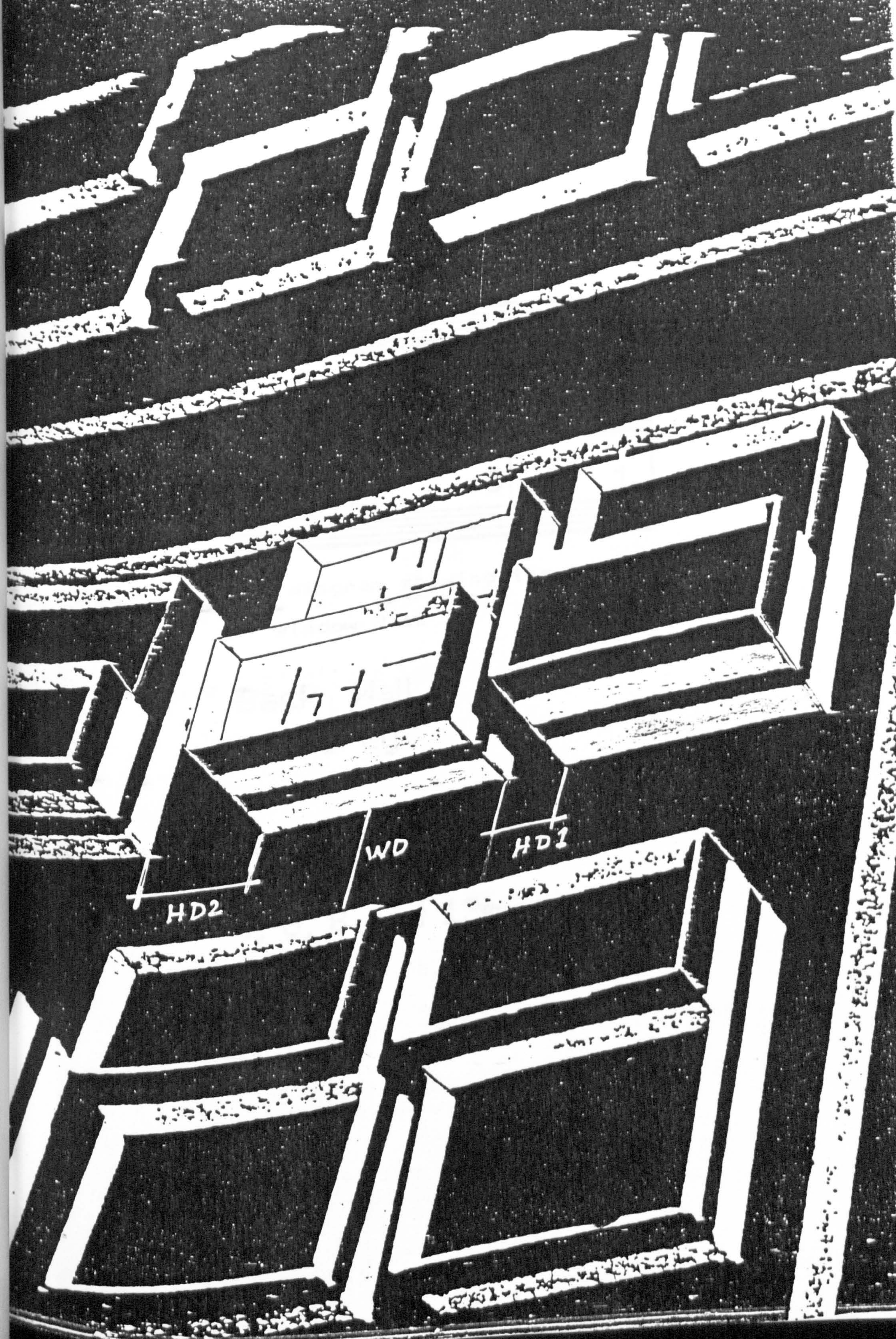
TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< WINDOW >		<<				O R I E N T A T I O N S				>>							
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	1	1	1	1	1
.50	1.25	2	2	2	3	-	2	-	-	-	-	-	2	2	3	2	2
.50	1.50	3	3	3	-	-	-	-	-	-	-	-	-	-	-	3	3
.50	1.75	4	4	4	-	-	-	-	-	-	-	-	-	-	-	4	4
.75	1.00	5	-	2	2	2	-	-	-	-	-	-	-	-	2	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	1	-	1	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

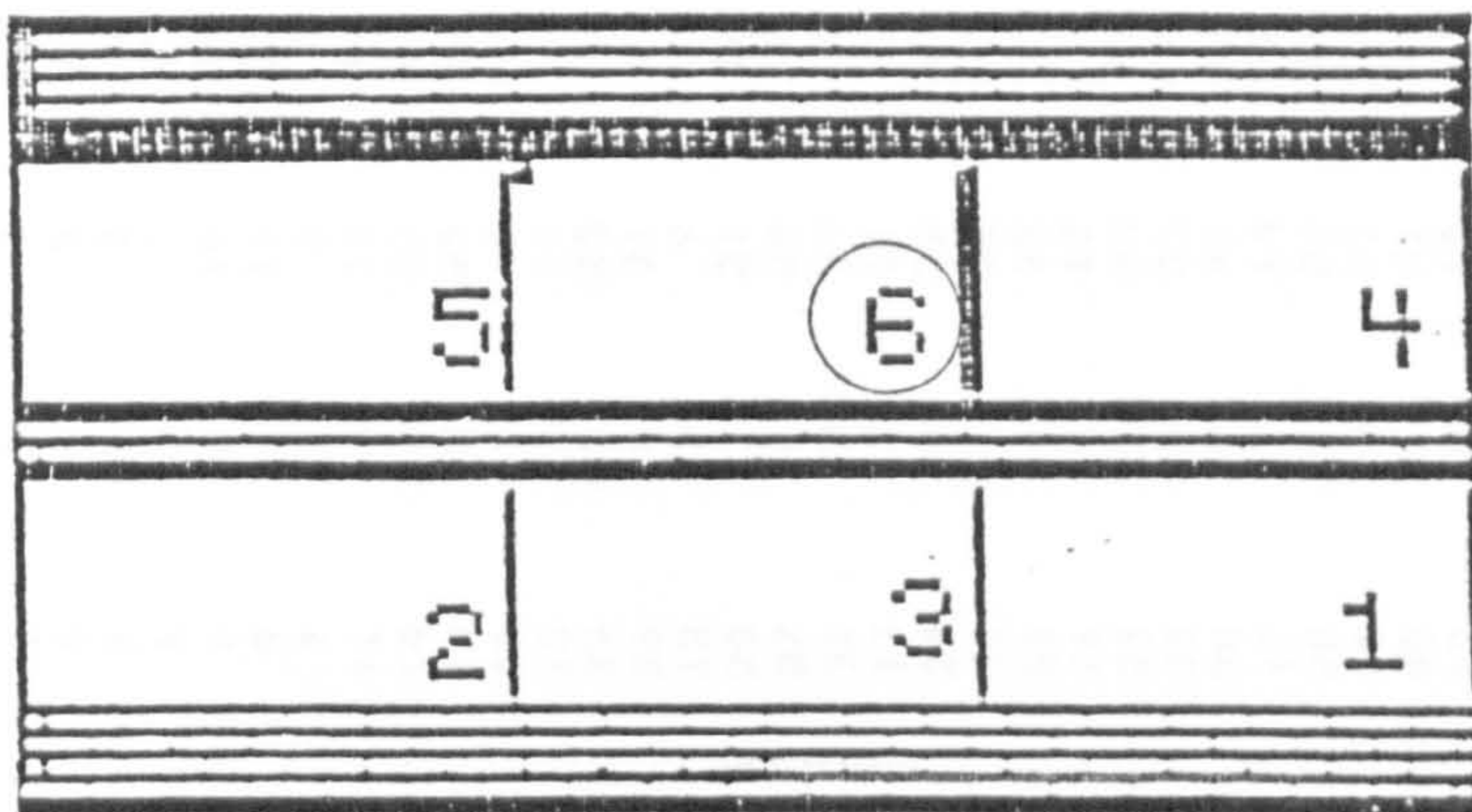


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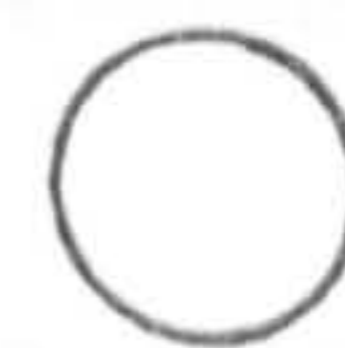
HD2

WD

HD1



Key diagram showing the location
of window data



Back Hall

2 Storey

Interhouse Distance

4, 6, 8 and 12m.

<-----<< < W I N D O W > ----->>----->

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
1.00	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
1.25	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
1.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
1.75	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
1.00	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
1.25	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
1.50	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
1.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.25	1.25	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
1.50	1.50	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11
1.75	1.75	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
1.25	1.25	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13
1.25	1.25	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14	14
1.25	1.25	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
1.25	1.25	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16
1.50	1.50	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17	17
1.50	1.50	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18
1.50	1.50	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20	20
1.75	1.75	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21	21
1.75	1.75	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19	19
1.75	1.75	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
1.75	1.75	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
1.75	1.75	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2.00	2.00	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
2.00	2.00	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27	27
2.00	2.00	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29	29
2.00	2.00	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
2.25	2.25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25	25
2.25	2.25	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
2.25	2.25	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35
2.25	2.25	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
2.25	2.25	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36
2.50	2.50	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28
2.50	2.50	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34	34
2.50	2.50	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38	38
2.50	2.50	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40
2.75	2.75	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31	31
2.75	2.75	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37	37
2.75	2.75	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41	41
2.75	2.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	3.00	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32
3.00	3.00	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39	39
3.00	3.00	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	11	1	10	44	1	1	1	1	1	1	1
.50	1.25	2	2	3	3	12	22	2	16	43	2	2	2	12	3	2	2
.50	1.50	3	3	5	3	23	33	3	13	41	3	3	3	23	6	3	3
.50	1.75	4	4	10	4	34	44	4	12	40	12	4	4	34	14	4	4
.75	1.00	5	5	2	2	2	10	5	11	42	4	5	5	2	5	5	5
.75	1.25	6	6	7	7	13	21	6	2	39	5	6	6	13	11	6	6
.75	1.50	7	7	17	24	24	32	7	15	37	17	8	7	24	17	7	7
.75	1.75	8	8	21	35	35	43	8	20	34	19	10	8	35	22	8	8
1.00	1.00	9	9	4	3	3	9	9	7	38	5	7	6	3	4	7	9
1.00	1.25	10	10	16	14	14	20	10	14	35	16	11	11	14	16	11	10
1.00	1.50	11	11	22	25	25	31	11	21	32	20	15	20	25	19	11	11
1.00	1.75	12	13	29	36	36	42	12	26	29	25	20	25	36	23	13	13
1.25	1.00	13	12	6	4	4	8	13	4	36	6	9	8	4	5	9	12
1.25	1.25	14	14	10	15	15	19	14	17	31	18	16	17	15	18	14	14
1.25	1.50	15	16	28	26	26	30	16	23	27	23	23	24	26	28	16	16
1.25	1.75	16	19	33	37	37	41	17	30	23	30	26	31	37	34	19	19
1.50	1.00	17	15	7	5	5	7	15	1	33	7	12	9	5	7	10	15
1.50	1.25	18	18	19	16	16	18	18	17	20	21	22	21	16	19	21	18
1.50	1.50	19	23	30	27	27	29	21	28	22	28	27	30	27	29	23	23
1.50	1.75	20	28	38	38	38	40	24	34	17	34	33	35	33	34	20	20
1.75	1.00	21	17	8	6	6	6	19	3	30	9	13	12	5	8	13	17
1.75	1.25	22	22	20	17	17	17	22	22	24	22	24	22	17	20	22	22
1.75	1.50	23	29	31	28	28	28	26	32	18	32	31	32	28	31	22	29
1.75	1.75	24	33	37	39	39	39	30	37	12	36	36	38	37	39	37	33
2.00	1.00	25	20	11	7	7	5	20	5	26	10	14	13	7	9	14	20
2.00	1.25	26	27	20	20	20	16	25	24	20	10	25	23	18	21	25	27
2.00	1.50	28	32	32	29	29	27	31	33	14	33	34	33	29	32	33	32
2.00	1.75	29	37	40	40	40	38	36	37	9	39	39	40	40	40	40	37
2.25	1.00	27	21	12	12	12	4	23	6	25	11	17	14	8	10	15	21
2.25	1.25	31	30	24	19	19	15	28	25	16	26	28	26	19	24	26	30
2.25	1.50	32	36	34	34	34	26	35	35	10	35	35	34	30	33	35	36
2.25	1.75	35	40	41	41	41	37	37	41	6	41	41	40	41	41	41	40
2.50	1.00	30	24	13	13	13	3	27	8	21	13	18	15	9	12	17	24
2.50	1.25	34	31	25	20	20	14	33	27	13	27	29	27	20	25	27	31
2.50	1.50	37	38	35	35	35	25	38	36	7	37	37	36	31	35	36	38
2.50	1.75	39	42	42	42	42	36	41	42	4	42	42	42	42	42	42	42
2.75	1.00	33	25	14	10	10	2	29	9	19	14	19	18	10	13	18	25
2.75	1.25	38	34	26	21	21	13	34	29	11	27	30	28	21	26	28	34
2.75	1.50	41	39	36	32	32	24	40	38	5	38	38	37	32	36	38	39
2.75	1.75	42	43	43	43	43	35	43	43	2	43	43	43	43	43	43	43
3.00	1.00	36	26	15	11	11	1	32	10	15	15	21	19	11	15	20	26
3.00	1.25	40	35	27	22	22	12	37	31	8	31	32	29	22	27	30	35
3.00	1.50	43	41	37	33	33	23	42	40	3	40	40	39	33	37	39	41
3.00	1.75	44	44	44	44	44	34	44	44	1	44	44	44	44	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

C M I N D O W >		<<----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	-	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	-	-	-	2	-	-	2	2	2	-	2	2	2
.50	1.50	3	3	3	-	-	-	3	-	-	3	3	-	-	-	3	3
.50	1.75	4	4	4	-	-	-	4	-	-	4	-	-	-	-	-	4
.75	1.00	-	-	-	-	2	-	-	-	2	-	-	-	2	-	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	3	9	-	-	3	-	-	-	3	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	4	8	-	-	4	-	-	-	4	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	7	-	-	5	-	-	-	5	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	6	-	-	6	-	-	-	6	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	5	-	-	7	-	-	-	7	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	4	-	-	8	-	-	-	8	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	9	3	-	-	9	-	-	-	9	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	2	-	-	10	-	-	-	10	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	11	1	-	-	11	-	-	-	11	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
.50	1.25	2	2	2	-	-	2	-	-	-	2	2	2	-	2	2	2
.50	1.50	3	3	-	-	-	-	-	-	-	4	3	-	3	3	3	3
.50	1.75	4	4	-	-	-	-	-	-	-	6	4	-	-	4	4	4
.75	1.00	5	-	3	2	10	-	-	-	-	3	-	-	2	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

Window		Orientation															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	11	1	-	-	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	-	-	-	-	-	2	2	2	-	3	2	2
.50	1.50	3	3	3	-	-	-	-	-	-	3	3	-	-	-	3	3
.50	1.75	4	4	4	2	-	10	-	-	-	12	4	-	-	4	4	4
.75	1.00	5	-	-	2	-	-	-	-	-	4	-	-	2	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	17	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	19	-	-	-	-	-	-
1.00	1.00	9	-	-	3	-	9	-	-	-	5	-	-	3	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	16	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	20	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	8	-	-	-	6	-	-	4	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	7	-	-	-	7	-	-	5	-	-	-
1.50	1.00	-	-	-	-	-	-	-	1	-	21	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	6	-	-	-	9	-	-	6	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	22	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	10	-	-	7	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	4	-	-	-	11	-	-	8	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	3	-	-	-	13	-	-	9	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	2	-	-	-	14	-	-	10	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	1	-	-	-	15	-	-	11	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	2	2	2	12	2	2	2	5	2	2	2
.50	1.50	3	3	3	5	23	4	3	4	21	4	3	4	14	3	3	3
.50	1.75	4	4	4	11	26	5	4	5	25	5	4	5	18	4	4	4
.75	1.00	5	5	5	2	2	3	5	3	2	3	5	3	2	3	5	5
.75	1.25	6	6	6	8	13	7	6	6	13	6	6	7	17	6	6	6
.75	1.50	7	7	7	17	24	10	9	9	24	9	8	10	21	8	7	7
.75	1.75	8	8	8	21	35	16	12	12	29	12	11	16	28	17	8	8
1.00	1.00	9	9	7	4	3	6	8	7	3	7	7	6	4	7	9	9
1.00	1.25	10	10	11	16	14	12	10	11	14	11	10	12	15	16	10	10
1.00	1.50	11	12	13	22	25	20	12	18	26	12	16	20	26	22	13	12
1.00	1.75	12	14	16	29	36	25	14	22	36	22	23	25	33	29	16	14
1.25	1.00	13	11	10	6	4	8	11	8	4	8	9	8	4	6	10	11
1.25	1.25	14	15	15	18	15	18	15	17	15	17	15	18	16	18	15	15
1.25	1.50	15	17	20	28	27	23	17	24	27	24	23	23	27	27	20	17
1.25	1.75	16	21	25	33	37	31	21	27	37	29	28	31	37	33	25	21
1.50	1.00	17	13	12	7	5	9	13	10	5	10	12	9	6	7	13	13
1.50	1.25	18	18	19	19	16	21	19	21	16	21	21	21	17	19	19	18
1.50	1.50	20	24	26	30	28	28	24	27	28	27	26	28	29	30	26	24
1.50	1.75	21	28	30	38	38	34	28	34	38	34	33	34	38	37	30	28
1.75	1.00	19	16	14	9	6	11	16	13	6	13	13	11	7	10	14	16
1.75	1.25	22	22	23	20	17	22	23	23	17	23	24	22	19	21	23	22
1.75	1.50	24	29	29	31	29	32	29	31	30	31	31	32	30	31	29	29
1.75	1.75	26	34	35	39	39	38	33	36	39	36	36	38	39	39	35	34
2.00	1.00	23	19	17	10	7	13	18	14	7	14	14	13	8	11	17	19
2.00	1.25	27	27	27	23	18	24	27	25	18	25	25	24	20	23	27	27
2.00	1.50	29	32	33	32	30	33	32	33	31	33	34	33	31	33	33	32
2.00	1.75	32	37	38	40	40	40	37	38	40	38	39	40	40	40	37	37
2.25	1.00	25	20	18	12	8	14	20	15	8	15	17	14	9	12	20	20
2.25	1.25	30	30	28	24	19	26	30	26	19	26	27	26	22	24	20	30
2.25	1.50	35	36	36	34	31	35	36	35	32	35	35	35	32	34	36	36
2.25	1.75	36	40	41	41	41	41	40	40	41	40	41	41	41	41	41	40
2.50	1.00	28	23	21	13	9	15	22	16	9	16	18	15	10	13	21	23
2.50	1.25	34	31	31	25	20	27	31	28	20	28	29	27	23	25	31	31
2.50	1.50	38	38	37	35	32	36	38	37	33	37	37	36	34	35	37	38
2.50	1.75	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	31	25	22	14	10	17	25	19	10	18	19	17	11	14	22	25
2.75	1.25	37	33	32	26	21	29	34	30	22	30	30	29	24	26	32	33
2.75	1.50	41	39	39	36	33	37	39	38	34	39	38	37	35	36	39	39
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	33	26	24	15	11	19	26	20	11	20	20	19	12	15	24	26
3.00	1.25	39	35	34	27	22	30	35	32	23	32	32	30	25	28	34	35
3.00	1.50	42	41	40	37	34	39	41	41	35	41	40	39	36	38	40	41

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12 M

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	E N	T A	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	33	1	1	1	1	1	1	1	1
.50	1.25	2	3	3	12	12	2	2	3	32	3	3	2	2	7	2	2	2
.50	1.50	3	5	5	23	23	3	3	5	31	5	5	3	4	14	5	3	3
.50	1.75	4	11	11	27	27	4	4	8	34	9	9	4	5	20	9	4	4
.75	1.00	5	2	2	2	2	5	5	2	20	2	2	5	3	2	3	5	5
.75	1.25	6	8	8	13	13	7	7	7	17	7	7	6	7	13	8	6	6
.75	1.50	7	17	17	24	24	11	11	11	30	11	11	8	11	23	17	8	7
.75	1.75	8	24	24	35	35	17	17	19	35	19	19	10	17	28	21	9	8
1.00	1.00	9	4	4	4	4	6	6	4	18	4	4	7	6	3	4	7	9
1.00	1.25	10	16	16	14	14	12	12	12	16	12	12	11	12	15	16	11	10
1.00	1.50	11	22	22	25	25	20	20	20	29	20	20	14	20	26	22	13	12
1.00	1.75	12	30	30	36	36	25	25	25	36	25	25	19	25	35	30	16	13
1.25	1.00	13	6	6	4	4	8	8	6	17	6	6	9	8	4	6	10	11
1.25	1.25	14	18	18	15	15	17	17	17	14	17	17	16	19	16	18	15	15
1.25	1.50	15	28	28	26	26	24	24	23	28	23	23	23	24	27	28	21	17
1.25	1.75	16	35	35	37	37	31	31	30	37	30	30	26	31.	37	34	25	20
1.50	1.00	17	7	7	5	5	9	9	9	15	8	8	12	9	5	7	12	14
1.50	1.25	18	17	17	16	16	21	21	21	12	12	12	21	21	17	19	19	19
1.50	1.50	19	29	29	27	27	27	27	27	27	27	27	27	29	29	29	26	24
1.50	1.75	20	38	38	38	38	34	34	34	38	34	34	32	34	38	38	31	28
1.75	1.00	21	9	9	6	6	10	10	10	13	10	10	13	10	6	10	14	16
1.75	1.25	22	20	20	17	17	22	22	22	10	13	13	24	22	18	20	24	23
1.75	1.50	24	31	31	28	28	32	32	32	26	10	22	30	32	30	31	29	29
1.75	1.75	25	39	39	39	39	37	37	37	39	37	37	36	38	39	39	35	33
2.00	1.00	23	10	10	7	7	13	13	13	11	11	11	15	13	8	11	17	18
2.00	1.25	26	21	21	18	18	24	24	24	7	11	13	25	23	17	23	27	27
2.00	1.50	28	32	32	30	30	33	33	33	25	13	24	34	33	31	32	33	32
2.00	1.75	30	40	40	40	40	40	37	40	40	40	40	38	40	40	40	38	37
2.25	1.00	27	12	12	8	8	14	14	14	9	9	14	17	14	9	12	18	21
2.25	1.25	31	23	23	19	19	26	26	26	5	9	14	28	26	21	24	28	30
2.25	1.50	33	36	36	31	31	35	35	35	24	24	26	35	35	32	33	36	36
2.25	1.75	36	41	41	41	41	41	39	41	41	41	41	41	41	41	41	41	39
2.50	1.00	29	20	20	13	13	15	15	15	8	8	15	18	15	10	13	20	22
2.50	1.25	34	25	25	20	20	27	27	27	3	3	20	29	27	22	25	30	31
2.50	1.50	37	34	34	32	32	36	36	36	23	23	36	37	36	33	35	37	38
2.50	1.75	39	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	32	22	22	14	14	16	16	16	6	6	16	20	16	11	14	22	25
2.75	1.25	38	26	26	21	21	29	29	29	2	2	29	31	28	24	26	34	34
2.75	1.50	41	36	36	33	33	37	37	37	22	22	37	39	37	34	36	40	40
2.75	1.75	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	35	26	26	15	15	18	18	18	4	4	18	22	18	12	15	23	26
3.00	1.25	40	35	35	27	27	30	30	31	1	1	31	33	30	25	27	34	35
3.00	1.50	43	41	41	37	37	39	39	39	21	21	39	40	39	36	37	40	41
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

<<-----<< < W I N D O W > ----->>>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
1.00	1.00	1	1	1	1	1	1	1	18	44	18	1	1	1	1	1	1
.50	1.25	2	2	2	3	12	2	2	16	43	16	2	2	4	3	2	2
.50	1.50	3	3	3	6	23	3	3	13	42	13	3	3	14	5	3	3
.50	1.75	4	4	4	14	34	4	4	12	40	12	4	4	21	10	4	4
.75	1.00	5	5	5	2	2	5	5	11	41	11	5	5	2	2	5	5
.75	1.25	6	6	6	11	13	6	6	3	39	3	6	6	13	9	6	6
.75	1.50	7	7	7	17	24	7	7	15	37	15	7	7	22	17	7	7
.75	1.75	8	8	8	22	35	8	8	21	34	21	8	8	29	21	8	8
1.00	1.00	9	9	9	4	3	9	9	9	38	9	9	9	3	4	9	9
1.00	1.25	10	10	10	16	14	10	10	14	35	14	10	10	15	16	10	10
1.00	1.50	11	11	11	23	25	11	11	20	32	20	11	11	26	22	11	11
1.00	1.75	12	12	12	30	36	12	12	27	29	27	12	12	36	27	12	12
1.25	1.00	13	13	13	5	4	13	13	5	36	5	13	13	4	6	13	13
1.25	1.25	14	14	14	18	15	14	14	17	31	17	14	14	16	10	14	14
1.25	1.50	15	15	15	28	26	15	15	24	27	24	15	15	27	28	15	15
1.25	1.75	16	16	16	34	37	16	16	31	23	31	16	16	37	33	16	16
1.50	1.00	17	17	17	7	5	17	17	1	33	1	17	17	5	7	17	17
1.50	1.25	18	18	18	19	16	18	18	19	20	19	18	18	17	19	18	18
1.50	1.50	19	19	19	29	27	19	19	30	22	30	19	19	28	30	19	19
1.50	1.75	20	20	20	38	38	20	20	35	17	35	20	20	38	38	20	20
1.75	1.00	21	21	21	8	6	21	21	2	30	2	21	21	7	8	21	21
1.75	1.25	22	22	22	20	17	22	22	22	24	22	22	22	18	20	22	22
1.75	1.50	23	23	23	31	28	23	23	32	18	32	23	23	30	31	23	23
1.75	1.75	24	24	24	37	39	24	24	38	12	38	24	24	39	37	24	24
2.00	1.00	25	25	25	9	7	25	25	4	26	4	25	25	8	11	25	25
2.00	1.25	26	26	26	21	18	26	26	23	20	23	26	26	17	23	26	26
2.00	1.50	27	27	27	27	29	27	27	33	14	33	27	27	28	27	27	27
2.00	1.75	28	28	28	32	29	28	28	40	9	40	28	28	31	32	28	28
2.25	1.00	29	29	29	37	40	29	29	40	6	40	29	29	40	40	29	29
2.25	1.25	30	30	30	10	8	30	30	6	25	6	30	30	9	12	30	30
2.25	1.50	31	31	31	24	19	31	31	25	16	25	31	31	20	24	31	31
2.25	1.75	32	32	32	33	30	32	32	34	10	34	32	32	32	34	32	32
2.50	1.00	33	33	33	40	40	33	33	40	6	40	33	33	40	40	33	33
2.50	1.25	34	34	34	19	17	34	34	25	25	25	34	34	12	19	34	34
2.50	1.50	35	35	35	28	26	35	35	34	16	34	35	35	20	28	35	35
2.50	1.75	36	36	36	36	30	36	36	41	10	41	36	36	32	36	36	36
3.00	1.00	37	37	37	41	41	37	37	41	6	41	37	37	41	41	37	37
3.00	1.25	38	38	38	40	39	38	38	41	6	41	38	38	41	41	38	38
3.00	1.50	39	39	39	12	9	39	39	7	21	7	39	39	10	13	39	39
3.00	1.75	40	40	40	21	20	40	40	26	13	26	40	40	23	25	40	40
3.00	1.00	41	41	41	30	31	41	41	36	7	36	41	41	33	37	41	41
3.00	1.25	42	42	42	37	42	42	42	42	4	42	42	42	42	42	42	42
3.00	1.50	43	43	43	13	10	43	43	8	19	8	43	43	11	14	43	43
3.00	1.75	44	44	44	22	21	44	44	28	11	27	44	44	24	26	44	44
3.00	1.00	45	45	45	26	26	45	45	37	5	37	45	45	34	36	45	45
3.00	1.25	46	46	46	36	32	46	46	43	2	43	46	46	43	43	46	46
3.00	1.50	47	47	47	43	43	47	47	43	2	43	47	47	43	43	47	47
3.00	1.75	48	48	48	15	11	48	48	10	15	10	48	48	12	15	48	48
3.00	1.00	49	49	49	27	22	49	49	29	9	29	49	49	25	27	49	49
3.00	1.25	50	50	50	37	33	50	50	39	3	39	50	50	35	37	50	50
3.00	1.50	51	51	51	44	44	51	51	44	1	44	51	51	44	44	51	51
3.00	1.75	52	52	52	44	44	52	52	44	1	44	52	52	44	44	52	52

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< WINDOW >		DIRECTION															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.12M

W I N D O W >		N O R T H		E A S T		S O U T H		W E S T		O R I E N T A T I O N S			
Width.M	Height.M	22.5	45.0	67.5	112.5	135.0	157.5	202.5	270.0	247.5	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	2	2	2	2	2	2	2	2	2	2	2	2
.75	1.25	3	3	3	3	3	3	3	3	3	3	3	3
.75	1.50	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.75	5	5	5	5	5	5	5	5	5	5	5	5
1.00	1.00	3	3	3	3	3	3	3	3	3	3	3	3
1.00	1.25	4	4	4	4	4	4	4	4	4	4	4	4
1.00	1.50	5	5	5	5	5	5	5	5	5	5	5	5
1.00	1.75	6	6	6	6	6	6	6	6	6	6	6	6
1.25	1.00	4	4	4	4	4	4	4	4	4	4	4	4
1.25	1.25	5	5	5	5	5	5	5	5	5	5	5	5
1.25	1.50	6	6	6	6	6	6	6	6	6	6	6	6
1.25	1.75	7	7	7	7	7	7	7	7	7	7	7	7
1.50	1.00	5	5	5	5	5	5	5	5	5	5	5	5
1.50	1.25	6	6	6	6	6	6	6	6	6	6	6	6
1.50	1.50	7	7	7	7	7	7	7	7	7	7	7	7
1.50	1.75	8	8	8	8	8	8	8	8	8	8	8	8
1.75	1.00	6	6	6	6	6	6	6	6	6	6	6	6
1.75	1.25	7	7	7	7	7	7	7	7	7	7	7	7
1.75	1.50	8	8	8	8	8	8	8	8	8	8	8	8
1.75	1.75	9	9	9	9	9	9	9	9	9	9	9	9
2.00	1.00	7	7	7	7	7	7	7	7	7	7	7	7
2.00	1.25	8	8	8	8	8	8	8	8	8	8	8	8
2.00	1.50	9	9	9	9	9	9	9	9	9	9	9	9
2.00	1.75	10	10	10	10	10	10	10	10	10	10	10	10
2.25	1.00	8	8	8	8	8	8	8	8	8	8	8	8
2.25	1.25	9	9	9	9	9	9	9	9	9	9	9	9
2.25	1.50	10	10	10	10	10	10	10	10	10	10	10	10
2.25	1.75	11	11	11	11	11	11	11	11	11	11	11	11
2.50	1.00	9	9	9	9	9	9	9	9	9	9	9	9
2.50	1.25	10	10	10	10	10	10	10	10	10	10	10	10
2.50	1.50	11	11	11	11	11	11	11	11	11	11	11	11
2.50	1.75	12	12	12	12	12	12	12	12	12	12	12	12
2.75	1.00	10	10	10	10	10	10	10	10	10	10	10	10
2.75	1.25	11	11	11	11	11	11	11	11	11	11	11	11
2.75	1.50	12	12	12	12	12	12	12	12	12	12	12	12
2.75	1.75	13	13	13	13	13	13	13	13	13	13	13	13
3.00	1.00	11	11	11	11	11	11	11	11	11	11	11	11
3.00	1.25	12	12	12	12	12	12	12	12	12	12	12	12
3.00	1.50	13	13	13	13	13	13	13	13	13	13	13	13
3.00	1.75	14	14	14	14	14	14	14	14	14	14	14	14

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	1	1	1	1	1
.50	1.25	2	2	2	3	1	2	-	-	-	-	-	2	-	3	2	2
.50	1.50	3	3	3	-	-	-	-	-	-	-	-	-	-	-	3	3
.50	1.75	4	4	4	2	2	-	-	-	-	-	-	-	2	4	4	4
.75	1.00	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	-	3	-	-	-	-	-	-	-	3	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	5	-	-	1	-	1	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	7	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	8	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	9	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	10	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	11	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< W I N D O W > -----<< ----->>-----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	10	11	16	15	12	10	11	14	12	10	12	15	16	11	10
1.00	1.50	11	12	13	22	26	20	12	17	26	17	12	20	26	22	13	12
1.00	1.75	12	14	16	29	33	25	14	20	36	22	14	25	33	27	16	14
1.25	1.00	13	11	10	6	4	8	11	9	4	9	11	8	4	6	10	11
1.25	1.25	14	15	15	10	15	18	15	16	15	16	15	18	16	18	15	15
1.25	1.50	15	17	20	27	27	23	17	24	27	24	17	23	27	27	20	17
1.25	1.75	16	21	25	33	37	31	21	28	37	28	21	31	37	33	25	21
1.50	1.00	17	13	12	7	6	9	13	12	5	11	13	9	6	7	12	13
1.50	1.25	18	10	19	17	17	21	19	21	16	21	19	21	17	19	17	10
1.50	1.50	20	24	26	30	29	24	24	26	28	27	24	28	29	30	26	24
1.50	1.75	21	28	30	37	38	34	28	32	38	33	28	34	38	37	30	28
1.75	1.00	19	16	14	10	7	11	16	13	6	13	16	11	7	10	14	16
1.75	1.25	22	22	23	21	17	22	23	24	17	23	23	22	19	21	23	22
1.75	1.50	24	29	29	31	30	29	29	30	29	30	29	32	30	31	29	29
1.75	1.75	26	34	35	39	37	38	33	36	39	36	33	38	37	37	35	34
2.00	1.00	23	19	17	11	8	13	18	14	7	14	18	13	8	11	17	19
2.00	1.25	27	27	27	23	20	24	27	25	18	25	27	24	20	23	27	27
2.00	1.50	29	32	33	32	31	33	32	33	30	34	32	33	31	32	33	32
2.00	1.75	32	37	38	40	40	40	37	38	40	38	37	40	40	40	38	37
2.25	1.00	25	20	18	12	9	14	20	15	8	15	20	14	9	12	18	20
2.25	1.25	30	30	28	24	22	26	30	26	19	26	30	26	22	24	28	30
2.25	1.50	35	36	36	34	32	35	36	35	31	35	36	35	32	34	36	36
2.25	1.75	36	40	41	41	41	41	40	40	41	40	40	41	41	41	41	40
2.50	1.00	28	23	21	13	10	15	22	18	9	18	22	15	10	13	21	23
2.50	1.25	34	31	31	25	23	27	31	29	20	29	31	27	23	25	31	31
2.50	1.50	38	38	37	35	34	36	38	37	33	37	38	36	34	35	37	38
2.50	1.75	40	42	42	42	42	42	42	42	42	42	42	42	42	42	42	42
2.75	1.00	31	25	22	14	11	17	25	19	10	19	25	17	11	14	22	25
2.75	1.25	37	33	32	26	24	29	34	31	21	31	34	29	24	26	33	37
2.75	1.50	41	39	39	36	35	37	39	39	34	39	39	37	35	36	39	39
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	33	26	24	15	12	19	26	20	11	20	26	19	12	15	24	26
3.00	1.25	39	35	34	28	25	34	35	34	22	32	35	30	25	28	34	35
3.00	1.50	42	41	40	38	36	39	41	41	35	41	41	39	36	38	41	41

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

Width.M	Height.M	D O R I E N T A T I O N S														
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0
.50	1.00	1	1	1	1	1	1	1	33	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	3	3	32	3	3	2	2	2	2	2
.50	1.50	3	3	3	3	3	4	4	31	4	4	3	3	3	3	3
.50	1.75	4	4	4	4	4	7	7	34	8	8	4	4	4	4	4
.75	1.00	5	5	5	5	5	2	2	22	2	2	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	19	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	10	10	30	10	10	7	7	7	7	7
.75	1.75	8	8	8	8	8	14	14	35	17	17	8	8	8	8	8
1.00	1.00	9	9	9	9	9	5	5	18	5	5	6	6	6	6	6
1.00	1.25	10	10	10	10	10	11	11	16	12	12	9	9	9	9	9
1.00	1.50	11	11	11	11	11	10	10	16	12	12	10	10	10	10	10
1.00	1.75	12	12	12	12	12	10	10	29	20	20	12	12	12	12	12
1.25	1.00	13	13	13	13	13	23	23	35	24	24	13	13	13	13	13
1.25	1.25	14	14	14	14	14	8	8	17	7	7	11	11	11	11	11
1.25	1.50	15	15	15	15	15	16	16	14	14	14	14	14	14	14	14
1.25	1.75	16	16	16	16	16	22	22	28	22	22	16	16	16	16	16
1.50	1.00	17	17	17	17	17	28	28	37	29	29	17	17	17	17	17
1.50	1.25	18	18	18	18	18	9	9	15	9	9	15	15	15	15	15
1.50	1.50	19	19	19	19	19	21	21	12	21	21	18	18	18	18	18
1.50	1.75	20	20	20	20	20	26	26	27	26	26	21	21	21	21	21
1.75	1.00	21	21	21	21	21	30	30	30	33	33	24	24	24	24	24
1.75	1.25	22	22	22	22	22	12	12	13	11	11	17	17	17	17	17
1.75	1.50	23	23	23	23	23	24	24	10	23	23	22	22	22	22	22
1.75	1.75	24	24	24	24	24	31	31	26	32	32	27	27	27	27	27
2.00	1.00	25	25	25	25	25	36	36	37	37	37	31	31	31	31	31
2.00	1.25	26	26	26	26	26	13	13	11	13	13	20	20	20	20	20
2.00	1.50	27	27	27	27	27	25	25	7	25	25	26	26	26	26	26
2.00	1.75	28	28	28	28	28	34	34	25	34	34	32	32	32	32	32
2.25	1.00	29	29	29	29	29	40	40	40	40	40	35	35	35	35	35
2.25	1.25	30	30	30	30	30	14	14	5	5	5	23	23	23	23	23
2.25	1.50	31	31	31	31	31	26	26	24	27	27	30	30	30	30	30
2.25	1.75	32	32	32	32	32	35	35	24	35	35	34	34	34	34	34
2.50	1.00	33	33	33	33	33	41	41	41	41	41	39	39	39	39	39
2.50	1.25	34	34	34	34	34	13	13	8	15	15	25	25	25	25	25
2.50	1.50	35	35	35	35	35	25	25	3	28	28	33	33	33	33	33
2.50	1.75	36	36	36	36	36	36	36	42	42	42	38	38	38	38	38
2.75	1.00	37	37	37	37	37	42	42	6	42	42	41	41	41	41	41
2.75	1.25	38	38	38	38	38	14	14	2	18	18	28	28	28	28	28
2.75	1.50	39	39	39	39	39	26	26	21	30	30	36	36	36	36	36
2.75	1.75	40	40	40	40	40	37	37	21	38	38	40	40	40	40	40
3.00	1.00	41	41	41	41	41	43	43	4	43	43	43	43	43	43	43
3.00	1.25	42	42	42	42	42	15	15	4	19	19	29	29	29	29	29
3.00	1.50	43	43	43	43	43	27	27	1	31	31	37	37	37	37	37
3.00	1.75	44	44	44	44	44	37	37	20	39	39	42	42	42	42	42

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

Width.M	Height.M	W I N D O W >														
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0
.50	1.00	1	1	1	1	1	1	17	44	17	1	1	1	1	1	1
.50	1.25	2	2	3	3	3	3	14	43	15	2	2	2	2	2	2
.50	1.50	3	3	5	5	5	5	13	42	13	3	3	3	3	3	3
.50	1.75	4	4	10	10	10	10	11	40	11	4	4	4	4	4	4
.75	1.00	5	5	2	2	2	2	12	41	12	5	5	5	5	5	5
.75	1.25	6	6	7	7	7	7	2	37	13	6	6	6	6	6	6
.75	1.50	7	7	17	17	17	17	16	37	16	7	7	7	7	7	7
.75	1.75	8	8	21	21	21	21	19	34	21	8	8	8	8	8	8
1.00	1.00	9	9	4	4	4	4	7	38	8	9	9	9	9	9	9
1.00	1.25	10	10	16	16	16	16	15	35	14	10	10	10	10	10	10
1.00	1.50	11	11	22	22	22	22	21	32	20	11	11	11	11	11	11
1.00	1.75	12	12	27	27	27	27	26	27	27	12	12	12	12	12	12
1.25	1.00	13	13	6	6	6	6	4	36	5	13	13	13	13	13	13
1.25	1.25	14	14	10	10	10	10	18	31	10	14	14	14	14	14	14
1.25	1.50	15	15	28	28	28	28	23	27	24	15	15	15	15	15	15
1.25	1.75	16	16	33	33	33	33	31	24	31	16	16	16	16	16	16
1.50	1.00	17	17	7	7	7	7	1	33	1	17	17	17	17	17	17
1.50	1.25	18	18	19	19	19	19	20	28	19	18	18	18	18	18	18
1.50	1.50	19	19	30	30	30	30	20	22	29	19	19	19	19	19	19
1.50	1.75	20	20	38	38	38	38	34	18	35	20	20	20	20	20	20
1.75	1.00	21	21	8	8	8	8	3	30	2	21	21	21	21	21	21
1.75	1.25	22	22	20	20	20	20	22	25	22	22	22	22	22	22	22
1.75	1.50	23	23	31	31	31	31	32	19	32	23	23	23	23	23	23
1.75	1.75	24	24	37	37	37	37	37	13	37	24	24	24	24	24	24
2.00	1.00	25	25	11	11	11	11	5	26	4	25	25	25	25	25	25
2.00	1.25	26	26	27	27	27	27	24	20	23	26	26	26	26	26	26
2.00	1.50	28	28	34	34	34	34	33	14	33	28	28	28	28	28	28
2.00	1.75	29	29	40	40	40	40	39	7	40	29	29	29	29	29	29
2.25	1.00	27	27	12	12	12	12	6	23	6	27	27	27	27	27	27
2.25	1.25	31	31	24	24	24	24	25	16	25	31	31	31	31	31	31
2.25	1.50	32	32	34	34	34	34	35	11	34	32	32	32	32	32	32
2.25	1.75	35	35	41	41	41	41	41	6	41	35	35	35	35	35	35
2.50	1.00	30	30	13	13	13	13	8	21	7	30	30	30	30	30	30
2.50	1.25	34	34	25	25	25	25	27	12	26	34	34	34	34	34	34
2.50	1.50	37	37	35	35	35	35	36	7	36	37	37	37	37	37	37
2.50	1.75	39	39	42	42	42	42	42	4	42	39	39	39	39	39	39
2.75	1.00	33	33	14	14	14	14	9	17	9	33	33	33	33	33	33
2.75	1.25	38	38	26	26	26	26	29	10	28	38	38	38	38	38	38
2.75	1.50	41	41	36	36	36	36	37	5	37	41	41	41	41	41	41
2.75	1.75	42	42	43	43	43	43	43	2	43	42	42	42	42	42	42
3.00	1.00	36	36	15	15	15	15	10	15	10	36	36	36	36	36	36
3.00	1.25	40	40	27	27	27	27	30	8	30	40	40	40	40	40	40
3.00	1.50	43	43	40	40	40	40	40	3	39	43	43	43	43	43	43
3.00	1.75	44	44	44	44	44	44	44	1	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

< W I N D O W >		O R I E N T A T I O N S														
		<<				292.5				>>						
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	-	-	-	2	-	-	-	2	-	-	-	-	2	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	5	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	11	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

< WINDOW >		<<-----<<								>>----->>							
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	-	-	2	2	-	2	2	2
.50	1.50	3	3	-	-	-	-	-	-	-	-	-	-	-	3	3	3
.50	1.75	4	4	-	-	-	-	-	-	-	-	-	-	-	4	4	4
.75	1.00	5	-	3	2	-	-	-	-	-	-	-	-	2	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

Width.M	Height.M	Orientation															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	3	3	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	4	4	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	5	5	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	6	6	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	7	7	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	8	8	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	9	9	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	10	10	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	10	11	11	10	10	10	10	10	10	10	10	10	10	10	10
1.00	1.50	11	11	12	12	11	11	11	11	11	11	11	11	11	11	11	11
1.00	1.75	12	12														
1.25	1.00																
1.25	1.25																
1.25	1.50																
1.25	1.75																
1.50	1.00																
1.50	1.25																
1.50	1.50																
1.50	1.75																
1.75	1.00																
1.75	1.25																
1.75	1.50																
1.75	1.75																
2.00	1.00																
2.00	1.25																
2.00	1.50																
2.00	1.75																
2.25	1.00																
2.25	1.25																
2.25	1.50																
2.25	1.75																
2.50	1.00																
2.50	1.25																
2.50	1.50																
2.50	1.75																
2.75	1.00																
2.75	1.25																
2.75	1.50																
2.75	1.75																
3.00	1.00																
3.00	1.25																
3.00	1.50																
3.00	1.75																

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

< WINDOW > -----<< ----->> -----

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	10	11	10	10	11	10	11	10	12	10	11	13	11	11	10
1.00	1.50	11	11	13	12	12	13	12	15	12	16	12	13	21	13	13	11
1.00	1.75	12	13	16	16	16	16	16	20	16	22	13	16	26	16	16	13
1.25	1.00	13	12	10	6	8	10	11	9	4	9	11	10	8	10	10	12
1.25	1.25	14	14	15	10	10	15	15	15	15	17	15	15	10	15	15	14
1.25	1.50	15	16	20	27	24	23	17	23	27	23	17	20	24	20	20	16
1.25	1.75	16	18	25	33	32	25	20	27	37	28	20	25	32	25	25	18
1.50	1.00	17	15	12	7	9	12	14	12	5	11	14	12	9	12	12	15
1.50	1.25	18	19	19	17	20	19	18	21	16	20	18	19	20	19	19	19
1.50	1.50	20	21	26	30	30	26	23	26	28	27	23	26	30	26	26	21
1.50	1.75	21	24	30	37	35	30	28	32	38	32	27	30	35	30	30	24
1.75	1.00	19	17	14	10	10	14	16	13	6	13	16	14	10	14	14	17
1.75	1.25	22	22	23	21	22	22	22	24	17	24	22	23	22	23	23	22
1.75	1.50	24	27	29	31	31	29	29	30	29	30	29	29	31	29	29	27
1.75	1.75	26	31	35	39	39	33	33	36	37	36	33	35	39	35	35	31
2.00	1.00	23	20	17	11	11	17	19	14	7	14	19	17	11	17	17	20
2.00	1.25	27	26	27	23	23	27	26	25	18	25	26	27	23	27	27	26
2.00	1.50	29	32	33	32	33	33	32	33	30	34	32	33	33	32	32	32
2.00	1.75	32	35	38	40	40	38	37	38	40	38	37	38	40	40	38	36
2.25	1.00	25	23	18	12	14	10	21	17	8	15	21	18	14	18	18	23
2.25	1.25	30	30	28	24	25	20	30	28	19	26	30	20	25	24	20	30
2.25	1.50	35	35	36	34	34	36	35	35	31	35	35	36	34	34	34	35
2.25	1.75	36	39	41	41	41	41	39	40	41	40	39	41	41	41	41	39
2.50	1.00	28	25	21	13	15	24	24	18	9	18	24	21	15	21	21	25
2.50	1.25	34	33	31	25	27	31	31	29	20	29	31	31	27	25	31	33
2.50	1.50	38	38	37	35	36	38	38	37	32	37	38	37	36	35	37	38
2.50	1.75	40	41	42	42	42	42	42	42	42	42	42	42	42	42	42	41
2.75	1.00	31	28	22	14	16	25	25	19	10	19	25	22	16	22	22	28
2.75	1.25	37	34	26	26	20	34	34	31	21	31	34	32	20	26	32	34
2.75	1.50	41	40	36	36	37	40	40	39	33	39	40	39	37	36	39	40
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	33	29	15	15	17	27	27	22	11	21	28	24	17	15	24	29
3.00	1.25	39	37	34	28	29	34	35	34	22	33	36	34	29	27	34	37
3.00	1.50	42	42	40	38	38	41	41	41	34	41	41	40	38	37	40	42

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS=0.12M

<<-----<< < W I N D O W > ----->>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	33	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	3	31	3	2	2	2	3	2	2
.50	1.50	3	3	3	3	3	3	3	4	32	4	3	3	4	5	3	3
.50	1.75	4	4	4	4	4	4	4	7	34	8	4	4	4	11	4	4
.75	1.00	5	5	5	5	5	5	5	2	26	2	5	5	5	2	5	5
.75	1.25	6	6	6	6	6	6	6	6	19	5	6	6	6	9	6	6
.75	1.50	7	7	7	7	7	7	7	10	30	10	7	7	7	17	7	7
.75	1.75	8	8	8	8	8	8	8	14	35	15	8	8	8	23	8	8
1.00	1.00	9	9	9	9	9	9	9	5	10	5	9	7	5	4	7	9
1.00	1.25	10	10	11	16	12	11	10	11	17	12	10	11	12	16	11	10
1.00	1.50	11	11	13	22	21	13	11	10	29	20	11	13	21	22	13	11
1.00	1.75	12	12	16	30	26	16	13	23	36	24	13	15	26	30	16	12
1.25	1.00	13	13	10	6	8	10	12	8	16	7	12	10	8	6	10	13
1.25	1.25	14	14	15	10	18	15	14	16	14	16	14	15	18	18	15	14
1.25	1.50	15	16	21	28	24	20	16	22	28	22	16	20	24	28	21	16
1.25	1.75	16	17	25	34	32	25	18	28	37	28	18	25	32	34	25	17
1.50	1.00	17	15	12	7	9	12	15	9	15	9	15	12	9	7	12	15
1.50	1.25	18	19	19	19	20	19	17	21	12	21	17	17	20	19	17	17
1.50	1.50	19	21	26	29	30	26	21	26	27	26	21	26	30	29	26	21
1.50	1.75	20	24	31	38	35	31	24	33	38	33	24	31	38	31	24	24
1.75	1.00	21	18	14	10	10	14	17	12	13	11	17	14	10	9	14	18
1.75	1.25	22	22	24	20	22	23	23	24	10	23	22	24	22	20	24	22
1.75	1.50	24	26	29	31	31	29	28	31	25	31	27	29	31	31	29	26
1.75	1.75	25	29	35	39	37	35	31	36	39	37	31	35	37	37	35	29
2.00	1.00	23	20	17	11	11	17	20	13	11	13	20	17	11	10	17	20
2.00	1.25	26	27	27	23	23	27	26	25	7	25	26	27	23	21	27	27
2.00	1.50	28	32	33	32	33	33	32	34	24	34	32	33	33	32	33	32
2.00	1.75	30	34	38	40	40	38	36	40	40	40	34	38	40	40	38	34
2.25	1.00	27	23	18	12	14	18	22	15	9	14	23	18	14	12	18	23
2.25	1.25	31	31	28	24	25	29	30	27	5	27	30	28	25	24	28	31
2.25	1.50	33	35	36	33	34	36	35	35	23	35	35	36	34	33	36	35
2.25	1.75	36	39	41	41	41	41	39	41	41	41	39	41	41	41	41	39
2.50	1.00	29	25	20	13	15	21	25	17	8	17	25	21	15	13	20	25
2.50	1.25	34	33	30	25	27	30	33	29	3	29	33	30	27	25	30	33
2.50	1.50	37	38	37	35	36	37	38	37	22	36	30	37	36	35	37	30
2.50	1.75	39	41	42	42	42	42	41	42	42	42	41	42	42	42	42	41
2.75	1.00	32	28	22	14	16	22	27	19	6	18	28	22	16	14	22	28
2.75	1.25	33	36	32	26	28	32	34	30	2	30	35	32	28	26	32	36
2.75	1.50	41	40	39	36	37	39	40	38	21	38	40	39	37	36	39	40
2.75	1.75	42	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	35	30	23	15	17	23	29	20	4	19	29	23	17	15	23	30
3.00	1.25	40	37	34	27	29	34	37	32	1	32	37	34	27	27	34	37
3.00	1.50	43	42	40	37	38	40	42	39	20	39	42	40	38	37	40	42
3.00	1.75	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

Width-M	Height-M	Orientation															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	17	44	17	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	14	43	15	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	13	42	13	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	11	41	11	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	12	40	12	5	5	5	5	5	5	5
.75	1.25	5	5	5	5	5	5	2	39	2	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	16	37	16	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	17	36	17	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	7	38	7	9	9	9	9	9	9	9
1.00	1.25	10	10	10	10	10	10	15	35	14	10	10	10	10	10	10	10
1.00	1.50	11	11	11	11	11	11	21	33	21	11	11	11	11	11	11	11
1.00	1.75	12	12	12	12	12	12	26	30	26	12	12	12	12	12	12	12
1.25	1.00	13	13	13	13	13	13	4	34	5	12	12	12	12	12	12	12
1.25	1.25	14	14	14	14	14	14	18	31	18	13	13	13	13	13	13	13
1.25	1.50	15	15	15	15	15	15	23	28	23	14	14	14	14	14	14	14
1.25	1.75	16	16	16	16	16	16	31	25	31	15	15	15	15	15	15	15
1.50	1.00	17	17	17	17	17	17	1	32	1	15	15	15	15	15	15	15
1.50	1.25	18	18	18	18	18	18	20	27	19	16	16	16	16	16	16	16
1.50	1.50	19	19	19	19	19	19	28	22	29	17	17	17	17	17	17	17
1.50	1.75	20	20	20	20	20	20	34	19	35	17	17	17	17	17	17	17
1.75	1.00	21	19	15	8	3	3	3	29	3	17	15	15	15	15	15	15
1.75	1.25	22	22	23	20	22	22	22	24	22	17	23	23	23	23	23	23
1.75	1.50	23	25	29	31	31	31	32	18	32	18	23	23	23	23	23	23
1.75	1.75	24	29	35	39	39	39	37	13	37	18	23	23	23	23	23	23
2.00	1.00	25	21	17	11	5	5	5	26	4	19	17	13	13	13	13	13
2.00	1.25	26	26	27	23	24	24	24	20	24	19	17	23	23	23	23	23
2.00	1.50	28	34	40	44	44	44	33	14	33	20	17	23	23	23	23	23
2.00	1.75	29	34	38	40	40	40	37	9	40	20	17	23	23	23	23	23
2.25	1.00	27	24	19	12	6	6	6	23	6	20	17	13	13	13	13	13
2.25	1.25	31	28	24	24	25	25	25	16	25	20	17	13	13	13	13	13
2.25	1.50	32	36	36	34	34	34	34	11	34	20	17	13	13	13	13	13
2.25	1.75	35	41	41	41	41	41	41	6	41	20	17	13	13	13	13	13
2.50	1.00	30	27	21	13	8	8	8	21	8	24	21	15	15	15	15	15
2.50	1.25	34	30	25	25	27	27	27	12	27	24	21	15	15	15	15	15
2.50	1.50	37	37	37	35	36	36	36	7	36	24	21	15	15	15	15	15
2.50	1.75	39	41	42	42	42	42	42	4	42	24	21	15	15	15	15	15
2.75	1.00	33	28	22	14	9	9	9	17	9	26	21	15	15	15	15	15
2.75	1.25	38	32	26	26	28	28	28	10	28	26	21	15	15	15	15	15
2.75	1.50	41	39	36	36	37	37	38	5	38	26	21	15	15	15	15	15
2.75	1.75	42	43	43	43	43	43	43	2	43	26	21	15	15	15	15	15
3.00	1.00	36	31	24	15	10	10	10	15	10	29	24	17	17	17	17	17
3.00	1.25	40	37	33	27	30	30	30	8	30	30	24	17	17	17	17	17
3.00	1.50	43	42	40	37	38	38	39	3	39	30	24	17	17	17	17	17
3.00	1.75	44	44	44	44	44	44	44	1	44	30	24	17	17	17	17	17

TABLE SHOWING WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

W I N D O W >		<<-----<<												>>----->>			
Width.M	Height.M	N O R T H				E A S T				S O U T H				W E S T			
		22.5	45.0	67.5	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	315.0	337.5				
.50	1.00	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
.75	1.00	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	4	4	4	4	4	4	4	4	4	4
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

< WINDOW >		ORIENTATION								SUNSHINE							
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	-	-	-	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	-	-	-	-	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	-	-	-	-	4	4	4	4	4
.75	1.00	5	-	3	-	-	-	-	-	-	-	-	-	2	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

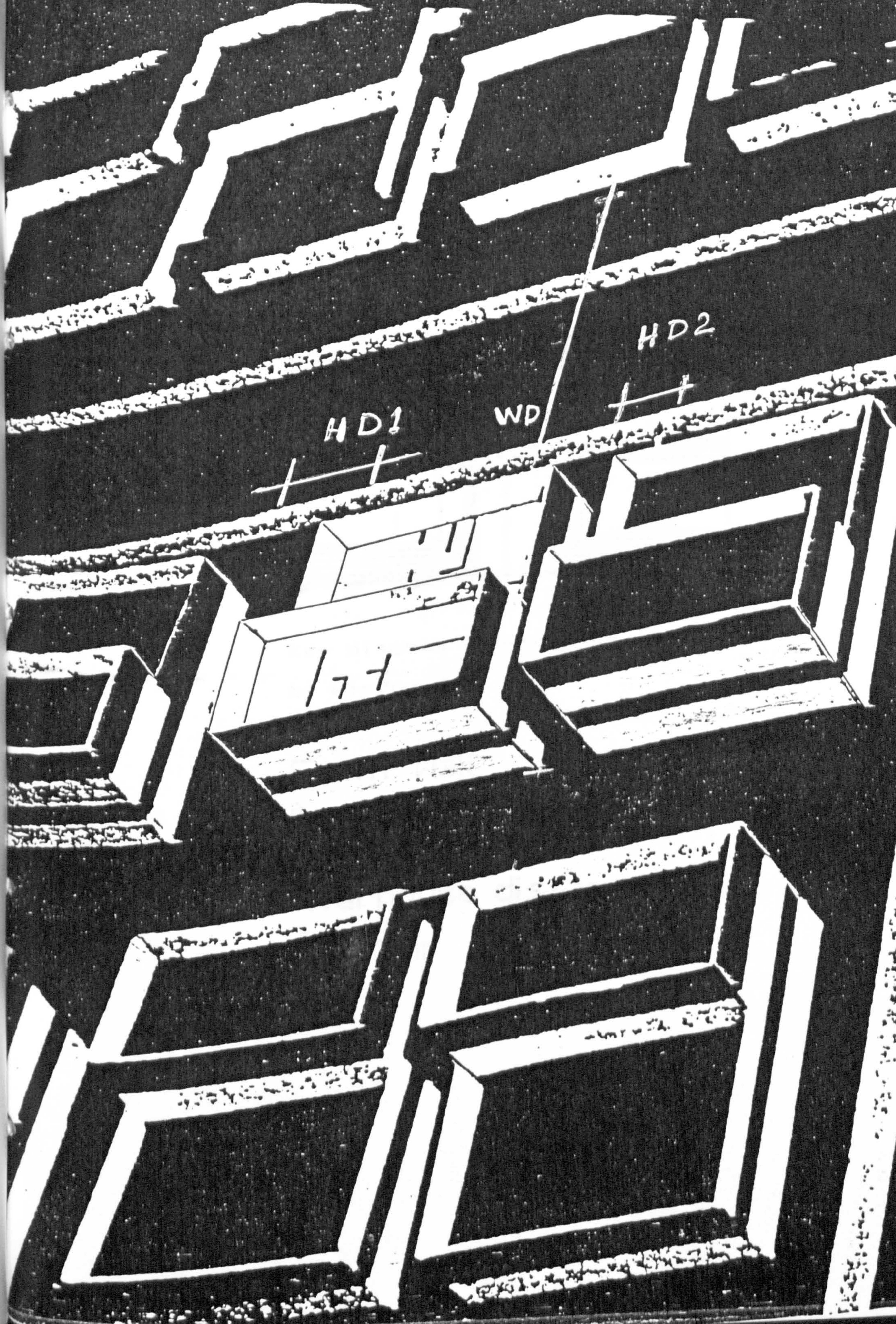
TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

Window		Orientation															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	-	-	-	1	1	1	1	1	1
.50	1.25	2	2	2	3	2	2	-	-	-	-	-	2	2	2	2	2
.50	1.50	3	3	3	-	-	3	-	-	-	-	-	3	-	3	3	3
.50	1.75	4	4	4	-	-	4	-	-	-	-	-	4	-	4	4	4
.75	1.00	5	-	-	2	-	-	-	-	-	-	-	-	2	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	11	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	12	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.36 M

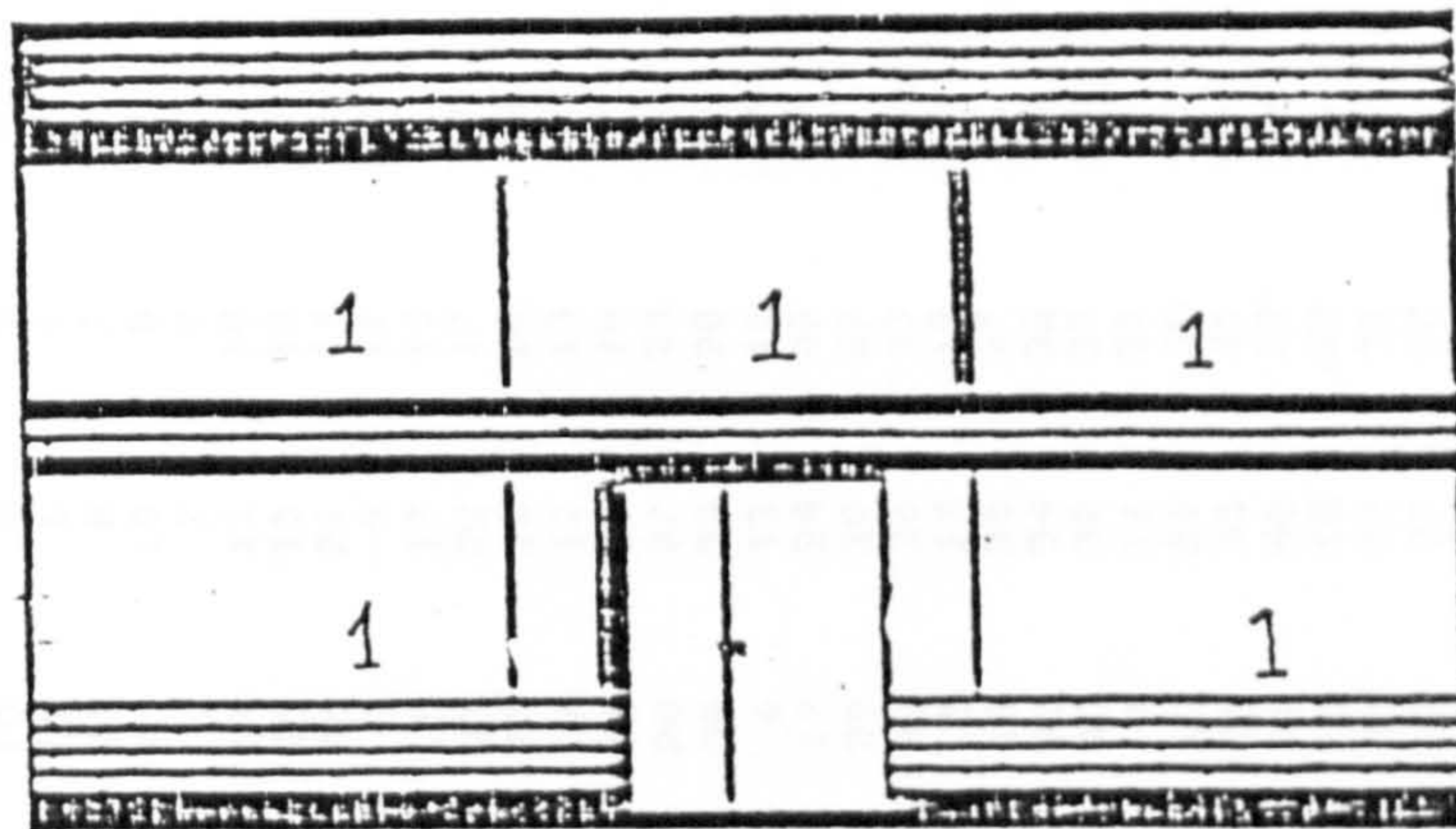


HD1

WD

HD2

177



Key diagram showing the location
of window data

3

Front Wall

1 Or 2 Storey

Interhouse distance

over 20m

<<-----<< < W I N D O W > ----->>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	12	2	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	23	3	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	26	4	4	4	4	4	4	4
.75	1.00	5	5	5	5	5	5	5	5	10	5	5	5	5	5	5	5
.75	1.25	6	6	6	6	6	6	6	6	13	6	6	6	6	6	6	6
.75	1.50	7	7	7	7	7	7	7	7	24	7	7	7	7	7	7	7
.75	1.75	8	8	8	8	8	8	8	8	35	8	8	8	8	8	8	8
1.00	1.00	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9
1.00	1.25	10	10	10	10	10	10	10	10	14	10	10	10	10	10	10	10
1.00	1.50	11	11	11	11	11	11	11	11	25	11	11	11	11	11	11	11
1.00	1.75	12	12	12	12	12	12	12	12	36	12	12	12	12	12	12	12
1.25	1.00	13	13	13	13	13	13	13	13	0	13	13	13	13	13	13	13
1.25	1.25	14	14	14	14	14	14	14	14	15	14	14	14	14	14	14	14
1.25	1.50	15	15	15	15	15	15	15	15	27	15	15	15	15	15	15	15
1.25	1.75	16	16	16	16	16	16	16	16	37	16	16	16	16	16	16	16
1.50	1.00	17	17	17	17	17	17	17	17	7	17	17	17	17	17	17	17
1.50	1.25	18	18	18	18	18	18	18	18	16	18	18	18	18	18	18	18
1.50	1.50	20	20	20	20	20	20	20	20	28	20	20	20	20	20	20	20
1.50	1.75	21	21	21	21	21	21	21	21	30	21	21	21	21	21	21	21
1.75	1.00	19	19	19	19	19	19	19	19	6	19	19	19	19	19	19	19
1.75	1.25	22	22	22	22	22	22	22	22	17	22	22	22	22	22	22	22
1.75	1.50	24	24	24	24	24	24	24	24	29	24	24	24	24	24	24	24
1.75	1.75	26	26	26	26	26	26	26	26	39	26	26	26	26	26	26	26
2.00	1.00	23	23	23	23	23	23	23	23	5	23	23	23	23	23	23	23
2.00	1.25	27	27	27	27	27	27	27	27	18	27	27	27	27	27	27	27
2.00	1.50	29	29	29	29	29	29	29	29	30	29	29	29	29	29	29	29
2.00	1.75	32	32	32	32	32	32	32	32	40	32	32	32	32	32	32	32
2.25	1.00	25	25	25	25	25	25	25	25	4	25	25	25	25	25	25	25
2.25	1.25	30	30	30	30	30	30	30	30	19	30	30	30	30	30	30	30
2.25	1.50	35	35	35	35	35	35	35	35	31	35	35	35	35	35	35	35
2.25	1.75	36	36	36	36	36	36	36	36	41	36	36	36	36	36	36	36
2.50	1.00	28	28	28	28	28	28	28	28	3	28	28	28	28	28	28	28
2.50	1.25	34	34	34	34	34	34	34	34	20	34	34	34	34	34	34	34
2.50	1.50	38	38	38	38	38	38	38	38	32	38	38	38	38	38	38	38
2.50	1.75	40	40	40	40	40	40	40	40	42	40	40	40	40	40	40	40
2.75	1.00	31	31	31	31	31	31	31	31	2	31	31	31	31	31	31	31
2.75	1.25	37	37	37	37	37	37	37	37	21	37	37	37	37	37	37	37
2.75	1.50	41	41	41	41	41	41	41	41	33	41	41	41	41	41	41	41
2.75	1.75	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43	43
3.00	1.00	33	33	33	33	33	33	33	33	1	33	33	33	33	33	33	33
3.00	1.25	39	39	39	39	39	39	39	39	22	39	39	39	39	39	39	39
3.00	1.50	42	42	42	42	42	42	42	42	34	42	42	42	42	42	42	42

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

Width, M	Height, M	C U I N D O W >															
		NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	33	1	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	3	3	31	3	3	3	3	3	3	3	3
.50	1.50	3	3	3	3	3	4	4	32	4	4	4	4	4	4	4	4
.50	1.75	4	4	4	4	4	5	5	44	5	5	5	5	5	5	5	5
.75	1.00	5	5	5	5	5	2	2	27	2	2	2	2	2	2	2	2
.75	1.25	6	6	6	6	6	3	3	19	3	3	3	3	3	3	3	3
.75	1.50	7	7	7	7	7	4	4	30	4	4	4	4	4	4	4	4
.75	1.75	8	8	8	8	8	5	5	43	5	5	5	5	5	5	5	5
1.00	1.00	9	9	9	9	9	6	6	18	6	6	6	6	6	6	6	6
1.00	1.25	10	10	10	10	10	7	7	17	7	7	7	7	7	7	7	7
1.00	1.50	11	11	11	11	11	8	8	29	8	8	8	8	8	8	8	8
1.00	1.75	12	12	12	12	12	9	9	42	9	9	9	9	9	9	9	9
1.25	1.00	13	13	13	13	13	10	10	14	10	10	10	10	10	10	10	10
1.25	1.25	14	14	14	14	14	11	11	14	11	11	11	11	11	11	11	11
1.25	1.50	15	15	15	15	15	12	12	20	12	12	12	12	12	12	12	12
1.25	1.75	16	16	16	16	16	13	13	28	13	13	13	13	13	13	13	13
1.50	1.00	17	17	17	17	17	14	14	34	14	14	14	14	14	14	14	14
1.50	1.25	18	18	18	18	18	15	15	18	15	15	15	15	15	15	15	15
1.50	1.50	19	19	19	19	19	16	16	24	16	16	16	16	16	16	16	16
1.50	1.75	20	20	20	20	20	17	17	32	17	17	17	17	17	17	17	17
1.75	1.00	21	21	21	21	21	18	18	7	18	18	18	18	18	18	18	18
1.75	1.25	22	22	22	22	22	19	19	9	19	19	19	19	19	19	19	19
1.75	1.50	23	23	23	23	23	20	20	12	20	20	20	20	20	20	20	20
1.75	1.75	24	24	24	24	24	21	21	26	21	21	21	21	21	21	21	21
2.00	1.00	25	25	25	25	25	22	22	35	22	22	22	22	22	22	22	22
2.00	1.25	26	26	26	26	26	23	23	10	23	23	23	23	23	23	23	23
2.00	1.50	27	27	27	27	27	24	24	29	24	24	24	24	24	24	24	24
2.00	1.75	28	28	28	28	28	25	25	31	25	25	25	25	25	25	25	25
2.25	1.00	29	29	29	29	29	26	26	37	26	26	26	26	26	26	26	26
2.25	1.25	30	30	30	30	30	27	27	11	27	27	27	27	27	27	27	27
2.25	1.50	31	31	31	31	31	28	28	7	28	28	28	28	28	28	28	28
2.25	1.75	32	32	32	32	32	29	29	24	29	29	29	29	29	29	29	29
2.50	1.00	33	33	33	33	33	30	30	11	30	30	30	30	30	30	30	30
2.50	1.25	34	34	34	34	34	31	31	27	31	31	31	31	31	31	31	31
2.50	1.50	35	35	35	35	35	32	32	34	32	32	32	32	32	32	32	32
2.50	1.75	36	36	36	36	36	33	33	24	33	33	33	33	33	33	33	33
2.75	1.00	37	37	37	37	37	34	34	30	34	34	34	34	34	34	34	34
2.75	1.25	38	38	38	38	38	35	35	9	35	35	35	35	35	35	35	35
2.75	1.50	39	39	39	39	39	36	36	5	36	36	36	36	36	36	36	36
2.75	1.75	40	40	40	40	40	37	37	23	37	37	37	37	37	37	37	37
3.00	1.00	41	41	41	41	41	38	38	3	38	38	38	38	38	38	38	38
3.00	1.25	42	42	42	42	42	39	39	22	39	39	39	39	39	39	39	39
3.00	1.50	43	43	43	43	43	40	40	36	40	40	40	40	40	40	40	40
3.00	1.75	44	44	44	44	44	41	41	42	41	41	41	41	41	41	41	41

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.24 M

<<-----<< < W I N D O W > ----->>>>

Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	17	44	17	1	1	1	1	1	1
.50	1.25	2	2	3	3	2	2	2	15	43	15	2	2	2	3	2	2
.50	1.50	3	3	6	4	4	3	3	13	42	13	3	3	4	3	3	3
.50	1.75	4	4	12	5	5	4	4	12	41	12	4	4	5	4	4	4
.75	1.00	5	5	2	3	3	5	5	11	40	11	5	5	3	5	5	5
.75	1.25	6	6	9	7	7	6	6	2	39	2	6	6	7	6	6	6
.75	1.50	7	7	17	11	11	8	7	16	37	16	7	8	11	7	7	7
.75	1.75	8	8	21	19	19	11	9	21	36	21	8	11	19	8	8	8
1.00	1.00	9	9	4	6	6	7	9	7	38	7	9	7	6	9	9	9
1.00	1.25	10	10	16	12	12	10	10	14	35	14	10	10	12	10	10	10
1.00	1.50	11	11	23	20	20	16	11	20	33	20	11	16	20	12	12	11
1.00	1.75	12	12	30	26	26	23	13	26	30	26	13	23	26	14	14	12
1.25	1.00	13	13	5	8	8	9	12	4	34	4	12	9	8	5	11	13
1.25	1.25	14	14	10	10	10	14	14	10	31	10	14	14	10	10	15	14
1.25	1.50	15	15	28	24	24	24	16	23	28	23	16	24	24	17	17	15
1.25	1.75	16	16	33	32	32	30	17	31	25	31	17	30	32	21	21	17
1.50	1.00	17	16	7	9	9	12	15	1	32	1	15	12	9	7	13	16
1.50	1.25	18	18	19	21	21	18	18	19	27	19	18	18	21	19	18	18
1.50	1.50	19	20	29	29	29	21	21	20	23	28	22	27	29	24	24	20
1.50	1.75	20	23	30	35	35	34	24	34	19	34	25	34	35	29	29	23
1.75	1.00	21	19	8	10	10	13	17	3	29	3	17	13	10	16	19	19
1.75	1.25	22	22	20	22	22	22	22	22	24	22	23	22	22	22	22	22
1.75	1.50	23	25	31	31	31	32	20	32	10	32	29	32	31	30	30	25
1.75	1.75	24	29	39	39	39	37	31	37	13	37	31	37	39	34	34	29
2.00	1.00	25	21	10	13	13	15	20	5	26	5	20	15	13	19	21	21
2.00	1.25	26	26	22	23	23	25	26	24	20	24	27	25	23	27	27	26
2.00	1.50	28	32	32	33	33	32	32	33	14	33	32	33	33	32	32	32
2.00	1.75	29	34	40	40	40	40	36	40	9	40	36	40	40	37	37	34
2.25	1.00	27	24	11	14	14	17	23	6	22	6	21	17	14	20	24	24
2.25	1.25	31	30	24	25	25	26	30	25	16	25	30	26	25	24	27	20
2.25	1.50	32	35	34	34	34	35	35	35	11	35	35	35	34	36	36	35
2.25	1.75	35	39	41	41	41	41	39	41	6	41	37	41	41	40	40	39
2.50	1.00	30	27	13	15	15	19	25	8	21	8	24	19	15	23	27	27
2.50	1.25	34	33	25	27	27	29	33	27	12	27	32	28	27	31	33	33
2.50	1.50	37	38	35	36	36	36	36	36	7	36	38	36	36	38	38	38
2.50	1.75	39	41	42	42	42	42	42	42	4	42	41	42	42	42	41	41
2.75	1.00	33	28	14	16	16	20	27	9	17	9	26	20	16	25	28	28
2.75	1.25	38	36	26	28	28	34	34	29	10	29	34	29	20	33	36	36
2.75	1.50	41	40	36	37	37	38	40	38	5	38	40	38	37	39	40	40
2.75	1.75	42	43	43	43	43	43	43	43	2	43	43	43	43	43	43	43
3.00	1.00	36	31	15	17	17	21	29	10	15	10	28	21	17	26	31	31
3.00	1.25	40	37	27	30	30	31	37	8	8	30	37	31	20	35	37	37
3.00	1.50	43	42	37	38	38	39	41	39	3	39	42	39	38	41	41	42
3.00	1.75	44	44	44	44	44	44	44	44	1	44	44	44	44	44	44	44

T A B L E S H O W I N G W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.36 M

W I N D O W >		<<----->>----->>															
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	11	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	2	-	-	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	3	-	-	3	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	4	-	-	-	-	-	4	4	4
.75	1.00	-	-	-	-	-	-	-	-	10	-	-	-	-	-	-	-
.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	9	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	8	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	7	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	6	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	5	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

T A B L E S H O W I N G T H E T O P 20% O F W I N D O W E F F I C I E N C Y I N R A N K O R D E R

W A L L T H I C K N E S S = 0.12 M

< WINDOW >		-----<<								>>-----							
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5
.50	1.00	1	1	1	1	1	1	1	1	-	1	1	1	1	1	1	1
.50	1.25	2	2	2	2	2	2	2	-	-	-	2	2	2	2	2	2
.50	1.50	3	3	3	3	3	3	3	-	-	-	-	3	3	3	3	3
.50	1.75	4	4	4	4	4	4	4	-	-	-	-	4	4	4	4	4
.75	1.00	5	-	2	-	-	-	-	-	-	-	-	-	2	-	-	-
.75	1.25	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.50	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
.75	1.75	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.25	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.00	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-
2.50	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.50	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.00	-	-	-	-	-	-	-	-	2	-	-	-	-	-	-	-
2.75	1.25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.75	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.00	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.25	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-
3.00	1.50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3.00	1.75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

WALL THICKNESS = 0.24 M

< WINDOW >		-----<<												>>-----											
Width.M	Height.M	NORTH	22.5	45.0	67.5	EAST	112.5	135.0	157.5	SOUTH	202.5	270.0	247.5	WEST	292.5	315.0	337.5								
.50	1.00	1	1	1	1	1	1	1				1	1	1	1	1	1								
.50	1.25	2	2	2	2	2	2						2	2	2	2	2								
.50	1.50	3	3												3	3	3								
.50	1.75	4	4												4	4	4								
.75	1.00	5			2										2										
.75	1.25	6																							
.75	1.50	7																							
.75	1.75	8																							
1.00	1.00	9																							
1.00	1.25	10																							
1.00	1.50	11																							
1.00	1.75	12																							
1.25	1.00																								
1.25	1.25																								
1.25	1.50										1														
1.25	1.75																								
1.50	1.00																								
1.50	1.25																								
1.50	1.50																								
1.50	1.75																								
1.75	1.00																								
1.75	1.25																								
1.75	1.50																								
1.75	1.75																								
2.00	1.00																								
2.00	1.25																								
2.00	1.50																								
2.00	1.75																								
2.25	1.00																								
2.25	1.25																								
2.25	1.50																								
2.25	1.75																								
2.50	1.00																								
2.50	1.25																								
2.50	1.50																								
2.50	1.75									4															
2.75	1.00																								
2.75	1.25																								
2.75	1.50																								
2.75	1.75									2															
3.00	1.00																								
3.00	1.25																								
3.00	1.50																								
3.00	1.75																								

TABLE SHOWING THE TOP 20% OF WINDOW EFFICIENCY IN RANK ORDER

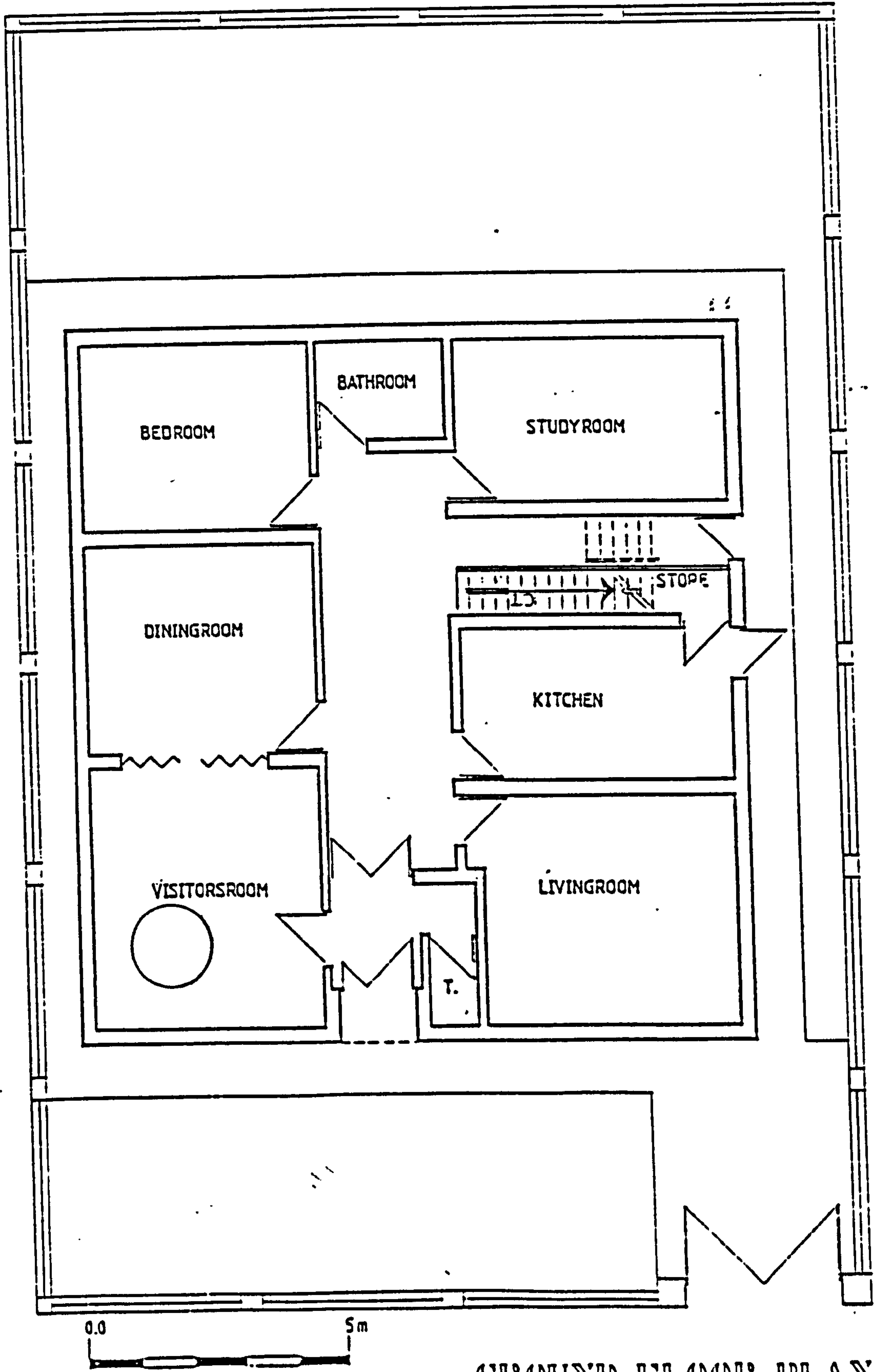
WALL THICKNESS = 0.36 M

APPENDIX 4

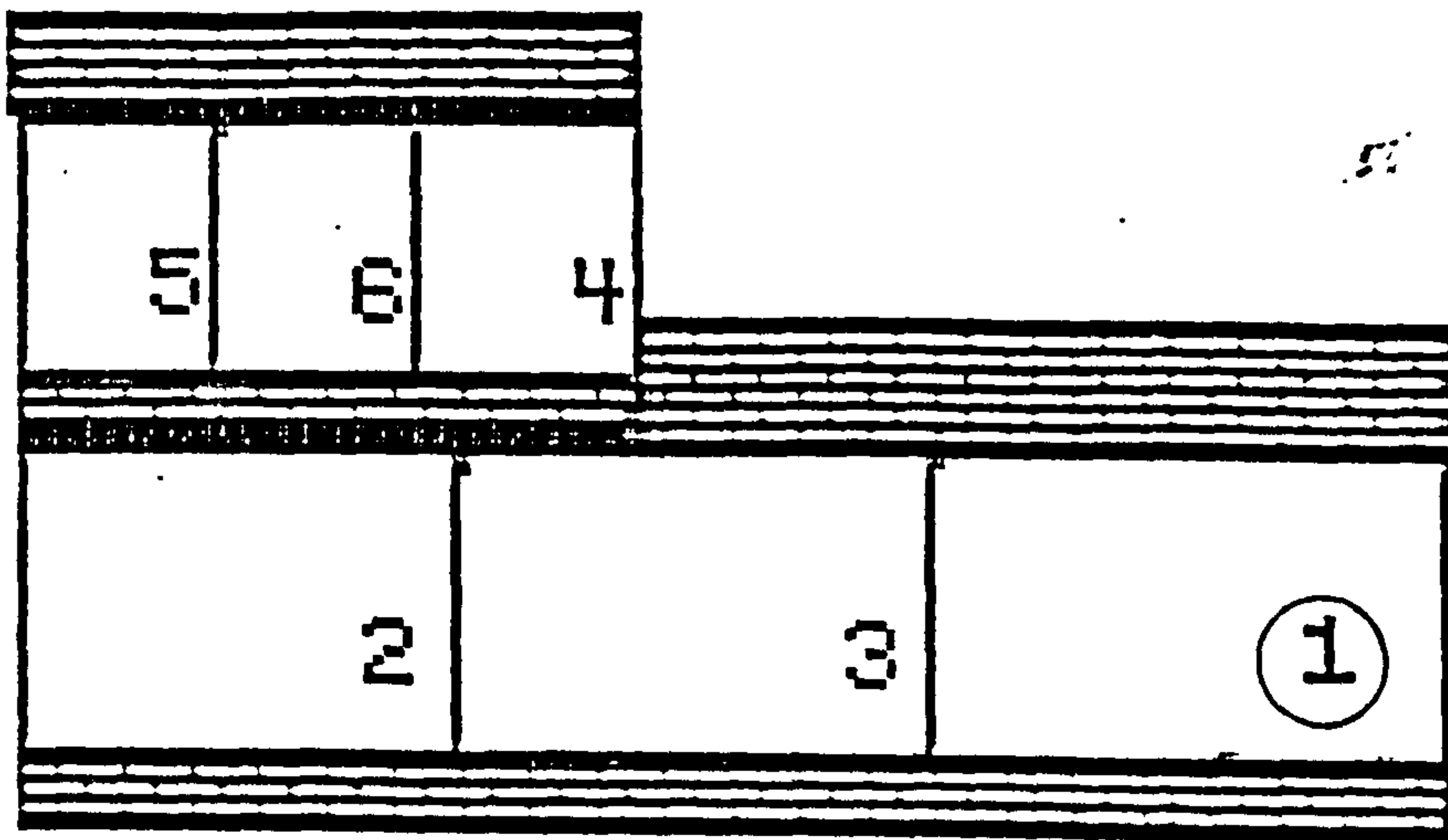
APPENDIX 4

Tables for Windows for Daylighting

- 1- These graphs are classified according to the room position on the house plan. Although on the title of the graphs the type of room is indicated, the graph can be used for any type of room as long as the recommended lighting level is determined.
- 2- Tables for rooms on side 2 (ground and first floor) can be used for rooms on side 4 (ground and first floor).
- 3- As mentioned in 5.5.1, each set of tables consists of 5 sub-tables, representing the 16 orientations.
- 4- The lighting levels given by the tables for all the rooms are at a distance of 2.5m from the window wall on the centre line of the window. (working level 0.75m, window sill 0.75m).
- 5- For staircases, the corresponding values are given at the centre point on the landing level.
- 6- Although on the first floor there is one room on side 2 (bedroom 3), it was decided to divide the external wall on this side into three parts; left, right, and middle and represent them in three separate tables.



GROUND FLOOR PLAN



Key diagram showing the location
of window data ..

Side Hall No. 2
1 1/2 Storey

Interhouse Distance ..
1, 2, 3 and 4m.

ORIENTATIONS: NORTH & SOUTH

VISITORS ROOM WINDOW ON SIDE WALL -GROUND FLOOR
 OBST. HEIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL 25%WALLREFL.	LUX	FA %				
0.50	1.00	0.03	3.	0.07	9.	0.05	6.	0.14	18.	0.07	9.	0.20	26.	0.09	12.	0.26	34.
0.50	1.25	0.04	5.	0.10	13.	0.07	9.	0.20	26.	0.10	13.	0.29	38.	0.14	17.	0.38	49.
0.50	1.50	0.05	6.	0.14	18.	0.09	12.	0.26	34.	0.14	18.	0.39	50.	0.19	24.	0.50	64.
0.50	1.75	0.06	8.	0.17	22.	0.12	15.	0.33	42.	0.18	23.	0.48	62.	0.28	36.	0.58	75.
0.75	1.00	0.04	5.	0.11	14.	0.07	9.	0.20	26.	0.11	14.	0.30	39.	0.14	18.	0.39	50.
0.75	1.25	0.06	7.	0.16	20.	0.11	14.	0.30	38.	0.16	20.	0.44	56.	0.20	26.	0.57	73.
0.75	1.50	0.07	9.	0.21	27.	0.14	18.	0.39	50.	0.21	26.	0.58	74.	0.28	36.	0.74	95.
0.75	1.75	0.09	12.	0.26	33.	0.17	22.	0.49	63.	0.27	35.	0.71	92.	0.41	53.	0.87	111.
1.00	1.00	0.05	7.	0.14	18.	0.10	12.	0.27	35.	0.14	18.	0.40	51.	0.18	24.	0.51	66.
1.00	1.25	0.07	9.	0.21	26.	0.14	18.	0.39	50.	0.21	26.	0.57	74.	0.27	34.	0.75	96.
1.00	1.50	0.10	13.	0.27	35.	0.18	24.	0.52	66.	0.27	35.	0.76	98.	0.37	48.	0.97	125.
1.00	1.75	0.12	16.	0.34	44.	0.23	29.	0.64	83.	0.36	46.	0.94	121.	0.55	70.	1.15	147.
1.25	1.00	0.06	8.	0.18	22.	0.12	15.	0.33	43.	0.17	22.	0.49	63.	0.23	29.	0.63	81.
1.25	1.25	0.09	12.	0.25	33.	0.17	22.	0.48	62.	0.25	33.	0.71	91.	0.33	42.	0.92	118.
1.25	1.50	0.12	15.	0.34	43.	0.23	29.	0.64	82.	0.34	43.	0.94	121.	0.46	59.	1.20	154.
1.25	1.75	0.15	19.	0.42	54.	0.28	36.	0.79	102.	0.44	57.	1.17	150.	0.68	87.	1.42	182.
1.50	1.00	0.07	9.	0.21	27.	0.14	18.	0.39	50.	0.21	26.	0.58	74.	0.27	34.	0.75	96.
1.50	1.25	0.11	14.	0.30	39.	0.20	26.	0.57	73.	0.30	38.	0.84	108.	0.39	50.	1.09	140.
1.50	1.50	0.14	18.	0.40	51.	0.27	35.	0.76	97.	0.40	51.	1.11	143.	0.55	70.	1.42	183.
1.50	1.75	0.18	23.	0.50	64.	0.34	43.	0.94	121.	0.52	67.	1.38	177.	0.80	103.	1.68	216.
1.75	1.00	0.08	11.	0.24	30.	0.16	21.	0.45	58.	0.24	30.	0.66	85.	0.31	39.	0.86	110.
1.75	1.25	0.12	16.	0.34	44.	0.23	30.	0.65	84.	0.34	44.	0.96	123.	0.45	57.	1.25	160.
1.75	1.50	0.16	21.	0.46	59.	0.31	40.	0.87	111.	0.46	58.	1.27	164.	0.63	81.	1.63	210.
1.75	1.75	0.20	26.	0.57	73.	0.39	49.	1.08	139.	0.60	77.	1.58	203.	0.93	119.	1.93	248.
2.00	1.00	0.09	12.	0.27	34.	0.18	23.	0.50	65.	0.26	34.	0.74	95.	0.36	46.	0.97	124.
2.00	1.25	0.14	18.	0.39	50.	0.26	34.	0.73	94.	0.38	49.	1.08	138.	0.52	67.	1.40	180.
2.00	1.50	0.18	23.	0.51	66.	0.35	45.	0.97	125.	0.51	66.	1.43	183.	0.73	94.	1.84	236.
2.00	1.75	0.23	29.	0.64	82.	0.43	56.	1.21	155.	0.67	86.	1.78	228.	1.07	137.	2.17	279.
2.25	1.00	0.10	13.	0.29	38.	0.20	25.	0.55	71.	0.29	37.	0.81	105.	0.44	57.	1.08	139.
2.25	1.25	0.15	19.	0.43	55.	0.29	37.	0.81	103.	0.42	54.	1.19	152.	0.64	82.	1.57	201.
2.25	1.50	0.20	26.	0.56	72.	0.38	49.	1.07	137.	0.56	72.	1.57	202.	0.88	113.	2.05	263.
2.25	1.75	0.25	32.	0.70	90.	0.48	61.	1.33	171.	0.74	95.	1.96	252.	1.26	162.	2.42	311.
2.50	1.00	0.11	15.	0.32	41.	0.21	28.	0.60	77.	0.36	47.	0.91	117.	0.52	67.	1.19	153.
2.50	1.25	0.16	21.	0.46	59.	0.31	40.	0.87	112.	0.52	67.	1.32	170.	0.75	96.	1.72	221.
2.50	1.50	0.22	28.	0.61	79.	0.42	53.	1.16	149.	0.69	89.	1.75	225.	1.03	132.	2.25	288.
2.50	1.75	0.27	35.	0.77	98.	0.52	67.	1.45	186.	0.90	116.	2.18	280.	1.44	185.	2.66	342.
2.75	1.00	0.12	16.	0.34	44.	0.23	30.	0.64	83.	0.44	56.	1.01	129.	0.60	77.	1.29	166.
2.75	1.25	0.18	23.	0.50	64.	0.34	43.	0.94	121.	0.63	81.	1.46	187.	0.86	110.	1.87	240.
2.75	1.50	0.24	30.	0.66	85.	0.45	57.	1.25	160.	0.83	106.	1.93	247.	1.17	150.	2.44	313.
2.75	1.75	0.29	38.	0.82	106.	0.56	72.	1.56	200.	1.07	137.	2.39	307.	1.62	208.	2.89	371.
3.00	1.00	0.13	17.	0.36	46.	0.29	37.	0.72	92.	0.51	65.	1.09	141.	0.67	86.	1.39	179.
3.00	1.25	0.19	24.	0.53	68.	0.42	54.	1.05	134.	0.73	93.	1.58	203.	0.96	123.	2.01	258.
3.00	1.50	0.25	32.	0.70	90.	0.56	72.	1.39	178.	0.95	123.	2.09	269.	1.31	168.	2.62	337.
3.00	1.75	0.31	40.	0.88	112.	0.69	89.	1.73	222.	1.23	157.	2.60	333.	1.80	231.	3.11	399.

ORIENTATIONS: 22.5 & 157.5 & 202.5 & 337.5

VISITORS ROOM WINDOW ON SIDE WALL -GROUND FLOOR
OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST.= 1.M			INTER-HOUSE DIST.= 2.M			INTER-HOUSE DIST.= 3.M			INTER-HOUSE DIST.= 4.M						
		SKY+EXTERNAL REFLECTION	25%WALLREFL. LUX	FA %	SKY+EXTERNAL REFLECTION	25%WALLREFL. LUX	FA %	SKY+EXTERNAL REFLECTION	25%WALLREFL. LUX	FA %	SKY+EXTERNAL REFLECTION	25%WALLREFL. LUX	FA %				
0.50	1.00	0.03	4.	0.07	10.	0.06	8.	0.16	22.	0.08	11.	0.22	31.	0.10	14.	0.28	40.
0.50	1.25	0.04	5.	0.10	15.	0.08	11.	0.23	32.	0.11	16.	0.32	45.	0.15	21.	0.41	58.
0.50	1.50	0.05	7.	0.14	20.	0.11	15.	0.30	42.	0.15	21.	0.42	60.	0.20	29.	0.53	75.
0.50	1.75	0.06	9.	0.17	24.	0.13	19.	0.37	53.	0.20	28.	0.52	74.	0.29	41.	0.62	87.
0.75	1.00	0.04	5.	0.11	15.	0.08	12.	0.23	33.	0.12	17.	0.33	47.	0.15	21.	0.42	59.
0.75	1.25	0.06	8.	0.16	22.	0.12	17.	0.34	48.	0.17	24.	0.48	67.	0.22	31.	0.61	86.
0.75	1.50	0.07	10.	0.21	29.	0.16	23.	0.45	63.	0.23	32.	0.63	89.	0.30	43.	0.79	112.
0.75	1.75	0.09	13.	0.26	36.	0.20	28.	0.56	77.	0.27	42.	0.78	110.	0.43	61.	0.92	130.
1.00	1.00	0.05	7.	0.14	20.	0.11	16.	0.31	43.	0.16	22.	0.43	61.	0.20	28.	0.55	78.
1.00	1.25	0.07	10.	0.21	29.	0.16	23.	0.45	63.	0.23	32.	0.63	89.	0.29	40.	0.80	113.
1.00	1.50	0.10	14.	0.27	39.	0.21	30.	0.59	84.	0.30	42.	0.83	118.	0.40	56.	1.04	148.
1.00	1.75	0.12	17.	0.34	48.	0.26	37.	0.74	104.	0.39	55.	1.03	146.	0.57	81.	1.22	172.
1.25	1.00	0.06	9.	0.18	25.	0.14	19.	0.38	54.	0.19	27.	0.54	76.	0.24	34.	0.68	96.
1.25	1.25	0.09	13.	0.25	36.	0.20	28.	0.55	78.	0.28	39.	0.78	110.	0.35	50.	0.99	140.
1.25	1.50	0.12	17.	0.34	48.	0.26	37.	0.73	103.	0.37	52.	1.03	146.	0.49	70.	1.29	182.
1.25	1.75	0.15	21.	0.42	59.	0.32	46.	0.91	128.	0.48	68.	1.28	180.	0.71	101.	1.51	213.
1.50	1.00	0.07	10.	0.21	29.	0.16	23.	0.45	63.	0.23	32.	0.63	89.	0.29	41.	0.81	114.
1.50	1.25	0.11	15.	0.30	42.	0.23	33.	0.65	92.	0.33	46.	0.92	130.	0.42	59.	1.17	165.
1.50	1.50	0.14	20.	0.40	56.	0.31	44.	0.86	122.	0.44	62.	1.22	172.	0.58	83.	1.52	215.
1.50	1.75	0.18	25.	0.50	70.	0.38	54.	1.07	152.	0.57	80.	1.51	213.	0.84	119.	1.78	252.
1.75	1.00	0.08	12.	0.24	33.	0.18	26.	0.51	73.	0.26	37.	0.73	102.	0.33	47.	0.92	130.
1.75	1.25	0.12	17.	0.34	49.	0.27	38.	0.75	105.	0.38	53.	1.05	149.	0.48	68.	1.34	189.
1.75	1.50	0.16	23.	0.46	65.	0.35	50.	0.99	140.	0.50	71.	1.40	198.	0.67	95.	1.75	247.
1.75	1.75	0.20	29.	0.57	80.	0.44	62.	1.23	174.	0.65	92.	1.73	245.	0.97	137.	2.05	290.
2.00	1.00	0.09	13.	0.27	38.	0.21	29.	0.58	81.	0.29	41.	0.81	115.	0.38	54.	1.04	146.
2.00	1.25	0.14	19.	0.39	55.	0.30	42.	0.84	118.	0.42	60.	1.18	167.	0.55	78.	1.51	213.
2.00	1.50	0.18	26.	0.51	72.	0.40	56.	1.11	157.	0.56	79.	1.57	222.	0.77	110.	1.96	278.
2.00	1.75	0.23	32.	0.64	90.	0.49	70.	1.38	196.	0.73	104.	1.94	275.	1.12	158.	2.30	326.
2.25	1.00	0.10	15.	0.29	41.	0.23	32.	0.63	89.	0.32	45.	0.89	126.	0.46	65.	1.15	163.
2.25	1.25	0.15	21.	0.43	60.	0.33	46.	0.92	130.	0.46	66.	1.30	184.	0.67	94.	1.67	236.
2.25	1.50	0.20	28.	0.56	80.	0.44	62.	1.22	173.	0.62	87.	1.73	244.	0.92	131.	2.17	307.
2.25	1.75	0.25	36.	0.70	100.	0.54	77.	1.53	216.	0.81	114.	2.14	303.	1.30	184.	2.55	361.
2.50	1.00	0.11	16.	0.32	45.	0.25	35.	0.69	97.	0.39	55.	0.99	140.	0.54	76.	1.26	178.
2.50	1.25	0.16	23.	0.46	65.	0.36	50.	1.00	141.	0.56	79.	1.44	203.	0.78	110.	1.82	258.
2.50	1.50	0.22	31.	0.61	87.	0.47	67.	1.33	188.	0.74	105.	1.91	270.	1.07	151.	2.38	336.
2.50	1.75	0.27	39.	0.77	108.	0.59	84.	1.66	234.	0.97	137.	2.37	334.	1.48	210.	2.79	395.
2.75	1.00	0.12	17.	0.34	48.	0.26	37.	0.74	104.	0.46	65.	1.08	153.	0.61	87.	1.36	192.
2.75	1.25	0.18	25.	0.50	70.	0.38	54.	1.07	152.	0.66	93.	1.57	222.	0.88	125.	1.97	278.
2.75	1.50	0.24	33.	0.66	93.	0.51	72.	1.43	202.	0.87	123.	2.08	294.	1.20	170.	2.57	363.
2.75	1.75	0.29	42.	0.82	116.	0.64	90.	1.78	252.	1.13	159.	2.58	365.	1.66	234.	3.02	427.
3.00	1.00	0.13	18.	0.36	51.	0.32	45.	0.81	115.	0.52	74.	1.17	165.	0.68	97.	1.46	206.
3.00	1.25	0.19	27.	0.53	74.	0.47	66.	1.18	167.	0.76	107.	1.69	240.	0.98	139.	2.11	298.
3.00	1.50	0.25	35.	0.70	99.	0.62	87.	1.57	222.	1.00	141.	2.25	317.	1.34	189.	2.75	388.
3.00	1.75	0.31	44.	0.88	124.	0.77	109.	1.96	277.	1.28	181.	2.78	394.	1.82	258.	3.24	457.

VISITORS ROOM WINDOW ON SIDE WALL -GROUND FLOOR
OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL REFLECTION	25%WALLREFL. LUX	FA %	SKY+EXTERNAL REFLECTION	25%WALLREFL. LUX	FA %	SKY+EXTERNAL REFLECTION	25%WALLREFL. LUX	FA %	SKY+EXTERNAL REFLECTION	25%WALLREFL. LUX	FA %				
0.50	1.00	0.03	5.	0.09	13.	0.06	8.	0.16	23.	0.07	13.	0.25	37.	0.09	13.	0.26	37.
0.50	1.25	0.05	7.	0.13	19.	0.08	12.	0.23	33.	0.13	19.	0.37	53.	0.13	19.	0.37	54.
0.50	1.50	0.06	9.	0.18	26.	0.11	16.	0.30	44.	0.17	25.	0.49	71.	0.19	27.	0.48	70.
0.50	1.75	0.08	11.	0.22	32.	0.13	19.	0.37	54.	0.22	33.	0.60	87.	0.28	40.	0.57	83.
0.75	1.00	0.05	7.	0.14	20.	0.08	12.	0.23	34.	0.13	20.	0.38	55.	0.14	20.	0.38	55.
0.75	1.25	0.07	10.	0.20	29.	0.12	18.	0.34	49.	0.20	28.	0.55	80.	0.20	29.	0.55	80.
0.75	1.50	0.09	14.	0.26	38.	0.16	23.	0.45	65.	0.26	38.	0.73	105.	0.28	40.	0.72	105.
0.75	1.75	0.12	17.	0.33	47.	0.20	27.	0.58	81.	0.33	47.	0.87	130.	0.41	60.	0.85	124.
1.00	1.00	0.06	9.	0.18	26.	0.11	16.	0.31	45.	0.18	26.	0.50	72.	0.18	26.	0.50	73.
1.00	1.25	0.09	14.	0.26	38.	0.16	23.	0.45	65.	0.26	37.	0.72	105.	0.26	38.	0.73	106.
1.00	1.50	0.12	18.	0.35	50.	0.21	31.	0.59	86.	0.34	50.	0.96	139.	0.37	53.	0.95	138.
1.00	1.75	0.15	22.	0.43	63.	0.26	38.	0.74	107.	0.44	64.	1.18	171.	0.54	79.	1.13	164.
1.25	1.00	0.08	12.	0.22	32.	0.14	20.	0.38	55.	0.22	32.	0.61	89.	0.22	32.	0.62	90.
1.25	1.25	0.12	17.	0.32	47.	0.20	29.	0.55	80.	0.32	46.	0.89	130.	0.32	47.	0.90	130.
1.25	1.50	0.15	22.	0.43	62.	0.26	38.	0.73	106.	0.42	61.	1.18	172.	0.45	66.	1.17	170.
1.25	1.75	0.19	28.	0.53	77.	0.32	47.	0.91	132.	0.55	79.	1.46	212.	0.67	98.	1.39	202.
1.50	1.00	0.09	14.	0.26	38.	0.16	23.	0.45	65.	0.26	38.	0.73	105.	0.26	38.	0.73	106.
1.50	1.25	0.14	20.	0.38	55.	0.23	34.	0.65	94.	0.38	55.	1.05	153.	0.38	55.	1.06	154.
1.50	1.50	0.18	26.	0.51	73.	0.31	45.	0.86	125.	0.50	72.	1.40	203.	0.54	78.	1.39	202.
1.50	1.75	0.23	33.	0.63	91.	0.38	56.	1.07	156.	0.65	94.	1.73	250.	0.80	116.	1.65	240.
1.75	1.00	0.11	16.	0.30	44.	0.18	27.	0.51	75.	0.30	43.	0.83	121.	0.30	43.	0.84	121.
1.75	1.25	0.16	23.	0.44	64.	0.27	39.	0.75	108.	0.43	63.	1.21	176.	0.43	63.	1.22	177.
1.75	1.50	0.21	30.	0.58	84.	0.35	51.	0.99	144.	0.57	83.	1.60	233.	0.62	89.	1.59	231.
1.75	1.75	0.26	37.	0.72	105.	0.44	64.	1.23	179.	0.74	108.	1.98	288.	0.92	133.	1.90	275.
2.00	1.00	0.12	17.	0.34	49.	0.21	30.	0.58	83.	0.33	48.	0.93	135.	0.35	51.	0.94	137.
2.00	1.25	0.18	25.	0.49	71.	0.30	43.	0.84	121.	0.48	70.	1.36	197.	0.51	73.	1.37	198.
2.00	1.50	0.23	34.	0.65	95.	0.40	58.	1.11	161.	0.64	93.	1.80	261.	0.71	104.	1.79	260.
2.00	1.75	0.29	42.	0.81	118.	0.49	72.	1.38	201.	0.83	121.	2.22	323.	1.06	153.	2.14	310.
2.25	1.00	0.13	19.	0.37	54.	0.23	33.	0.63	92.	0.37	53.	1.03	149.	0.43	62.	1.05	152.
2.25	1.25	0.19	28.	0.54	78.	0.33	48.	0.92	134.	0.53	77.	1.49	217.	0.62	89.	1.52	221.
2.25	1.50	0.26	37.	0.72	104.	0.44	63.	1.22	178.	0.71	103.	1.98	288.	0.86	124.	1.99	289.
2.25	1.75	0.32	46.	0.89	130.	0.54	79.	1.53	221.	0.92	133.	2.45	356.	1.24	180.	2.38	345.
2.50	1.00	0.14	21.	0.40	58.	0.25	36.	0.69	100.	0.44	63.	1.13	163.	0.50	73.	1.15	167.
2.50	1.25	0.21	30.	0.59	85.	0.36	52.	1.00	145.	0.63	92.	1.64	238.	0.72	105.	1.67	242.
2.50	1.50	0.28	40.	0.78	113.	0.47	69.	1.33	193.	0.84	122.	2.17	315.	1.00	145.	2.18	317.
2.50	1.75	0.35	50.	0.97	141.	0.59	86.	1.66	241.	1.08	157.	2.69	390.	1.42	206.	2.60	378.
2.75	1.00	0.15	22.	0.43	63.	0.26	38.	0.74	107.	0.51	74.	1.22	177.	0.57	83.	1.25	181.
2.75	1.25	0.22	33.	0.63	91.	0.38	56.	1.07	156.	0.73	106.	1.77	258.	0.82	119.	1.81	262.
2.75	1.50	0.30	43.	0.84	122.	0.51	74.	1.43	207.	0.97	141.	2.35	342.	1.13	164.	2.36	343.
2.75	1.75	0.37	54.	1.05	152.	0.64	92.	1.78	259.	1.24	180.	2.91	422.	1.59	230.	2.82	409.
3.00	1.00	0.16	24.	0.46	67.	0.32	46.	0.81	117.	0.57	83.	1.31	191.	0.64	93.	1.34	194.
3.00	1.25	0.24	35.	0.67	97.	0.46	67.	1.18	171.	0.83	120.	1.91	277.	0.92	133.	1.94	281.
3.00	1.50	0.32	46.	0.89	129.	0.61	89.	1.57	227.	1.09	159.	2.53	367.	1.25	182.	2.53	368.
3.00	1.75	0.40	58.	1.11	162.	0.77	111.	1.95	284.	1.40	203.	3.12	453.	1.75	254.	3.03	439.

ORIENTATIONS: 67.5 & 112.5 & 247.5 & 292.5
 VISITORS ROOM WINDOW ON SIDE WALL -GROUND FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %				
0.50	1.00	0.02	4.	0.07	10.	0.05	7.	0.13	20.	0.07	11.	0.20	30.	0.12	19.	0.35	52.
0.50	1.25	0.03	5.	0.10	14.	0.07	10.	0.19	29.	0.10	15.	0.28	43.	0.18	27.	0.50	76.
0.50	1.50	0.05	7.	0.13	19.	0.09	14.	0.25	38.	0.13	20.	0.37	57.	0.25	37.	0.65	98.
0.50	1.75	0.06	8.	0.16	24.	0.11	17.	0.31	47.	0.18	27.	0.47	70.	0.34	51.	0.74	112.
0.75	1.00	0.03	5.	0.10	15.	0.07	10.	0.19	29.	0.10	16.	0.29	44.	0.18	28.	0.52	78.
0.75	1.25	0.05	8.	0.14	21.	0.10	15.	0.28	43.	0.15	23.	0.42	64.	0.27	40.	0.75	113.
0.75	1.50	0.07	10.	0.19	28.	0.13	20.	0.37	56.	0.20	30.	0.56	84.	0.37	55.	0.97	146.
0.75	1.75	0.08	13.	0.23	35.	0.17	25.	0.46	70.	0.26	40.	0.69	105.	0.50	76.	1.10	167.
1.00	1.00	0.05	7.	0.13	20.	0.09	14.	0.26	39.	0.14	21.	0.38	58.	0.24	37.	0.68	103.
1.00	1.25	0.07	10.	0.19	28.	0.13	20.	0.37	56.	0.20	30.	0.56	84.	0.35	53.	0.99	149.
1.00	1.50	0.09	13.	0.25	38.	0.18	27.	0.49	75.	0.26	40.	0.74	111.	0.48	73.	1.28	193.
1.00	1.75	0.11	17.	0.31	47.	0.22	33.	0.61	93.	0.35	53.	0.92	139.	0.66	100.	1.46	221.
1.25	1.00	0.06	9.	0.16	24.	0.11	17.	0.32	48.	0.17	26.	0.47	71.	0.30	45.	0.84	127.
1.25	1.25	0.08	12.	0.23	35.	0.16	25.	0.46	69.	0.25	37.	0.69	104.	0.44	66.	1.22	184.
1.25	1.50	0.11	17.	0.31	46.	0.22	33.	0.61	92.	0.32	49.	0.91	138.	0.60	90.	1.58	239.
1.25	1.75	0.14	21.	0.38	58.	0.27	41.	0.76	114.	0.43	65.	1.13	171.	0.82	124.	1.80	272.
1.50	1.00	0.07	10.	0.19	28.	0.13	20.	0.37	57.	0.20	30.	0.56	84.	0.35	54.	0.99	150.
1.50	1.25	0.10	15.	0.27	41.	0.19	29.	0.54	82.	0.29	44.	0.81	123.	0.51	78.	1.44	218.
1.50	1.50	0.13	20.	0.36	55.	0.26	39.	0.72	109.	0.38	58.	1.07	163.	0.71	107.	1.86	282.
1.50	1.75	0.16	24.	0.45	68.	0.32	48.	0.90	135.	0.51	77.	1.34	202.	0.97	147.	2.13	322.
1.75	1.00	0.08	12.	0.22	33.	0.15	23.	0.43	65.	0.23	35.	0.64	97.	0.41	61.	1.14	172.
1.75	1.25	0.11	17.	0.31	47.	0.22	34.	0.62	94.	0.33	50.	0.93	141.	0.59	89.	1.65	250.
1.75	1.50	0.15	22.	0.42	63.	0.29	45.	0.83	125.	0.44	67.	1.23	187.	0.81	123.	2.14	324.
1.75	1.75	0.18	28.	0.52	78.	0.37	56.	1.03	155.	0.58	88.	1.54	232.	1.12	169.	2.45	370.
2.00	1.00	0.09	13.	0.24	37.	0.17	26.	0.48	73.	0.26	39.	0.72	108.	0.47	70.	1.27	192.
2.00	1.25	0.13	19.	0.35	53.	0.25	38.	0.70	105.	0.37	56.	1.04	158.	0.68	102.	1.85	279.
2.00	1.50	0.17	25.	0.47	71.	0.33	50.	0.93	140.	0.49	75.	1.38	209.	0.93	140.	2.39	362.
2.00	1.75	0.21	31.	0.58	88.	0.41	62.	1.15	174.	0.66	99.	1.72	261.	1.28	193.	2.74	415.
2.25	1.00	0.09	14.	0.27	40.	0.19	28.	0.53	80.	0.28	43.	0.79	119.	0.55	83.	1.39	211.
2.25	1.25	0.14	21.	0.39	58.	0.27	41.	0.77	116.	0.41	62.	1.15	173.	0.79	120.	2.02	306.
2.25	1.50	0.18	28.	0.51	78.	0.36	55.	1.02	154.	0.54	82.	1.52	230.	1.08	163.	2.62	396.
2.25	1.75	0.23	35.	0.64	97.	0.45	69.	1.27	192.	0.72	109.	1.90	288.	1.47	222.	3.01	455.
2.50	1.00	0.10	16.	0.29	44.	0.20	31.	0.57	87.	0.35	52.	0.88	132.	0.62	94.	1.51	228.
2.50	1.25	0.15	23.	0.42	64.	0.30	45.	0.83	126.	0.50	76.	1.27	192.	0.90	136.	2.19	331.
2.50	1.50	0.20	30.	0.56	84.	0.40	60.	1.11	168.	0.66	100.	1.69	255.	1.22	185.	2.84	429.
2.50	1.75	0.25	38.	0.70	105.	0.49	75.	1.38	209.	0.87	132.	2.11	318.	1.65	250.	3.26	493.
2.75	1.00	0.11	17.	0.31	47.	0.22	33.	0.61	93.	0.41	62.	0.96	145.	0.70	105.	1.62	245.
2.75	1.25	0.16	24.	0.45	68.	0.32	48.	0.89	135.	0.59	89.	1.39	211.	1.01	152.	2.34	355.
2.75	1.50	0.21	32.	0.60	91.	0.42	64.	1.19	180.	0.78	118.	1.85	279.	1.36	206.	3.04	460.
2.75	1.75	0.27	40.	0.75	113.	0.53	80.	1.49	225.	1.02	154.	2.30	348.	1.82	276.	3.50	530.
3.00	1.00	0.12	18.	0.33	50.	0.27	41.	0.68	103.	0.47	71.	1.04	157.	0.77	116.	1.72	260.
3.00	1.25	0.17	26.	0.48	72.	0.39	60.	0.99	150.	0.68	103.	1.51	228.	1.10	167.	2.49	377.
3.00	1.50	0.23	34.	0.64	96.	0.52	79.	1.31	199.	0.90	136.	2.00	302.	1.49	226.	3.23	489.
3.00	1.75	0.28	43.	0.80	121.	0.65	99.	1.64	248.	1.16	176.	2.49	377.	1.99	301.	3.73	564.

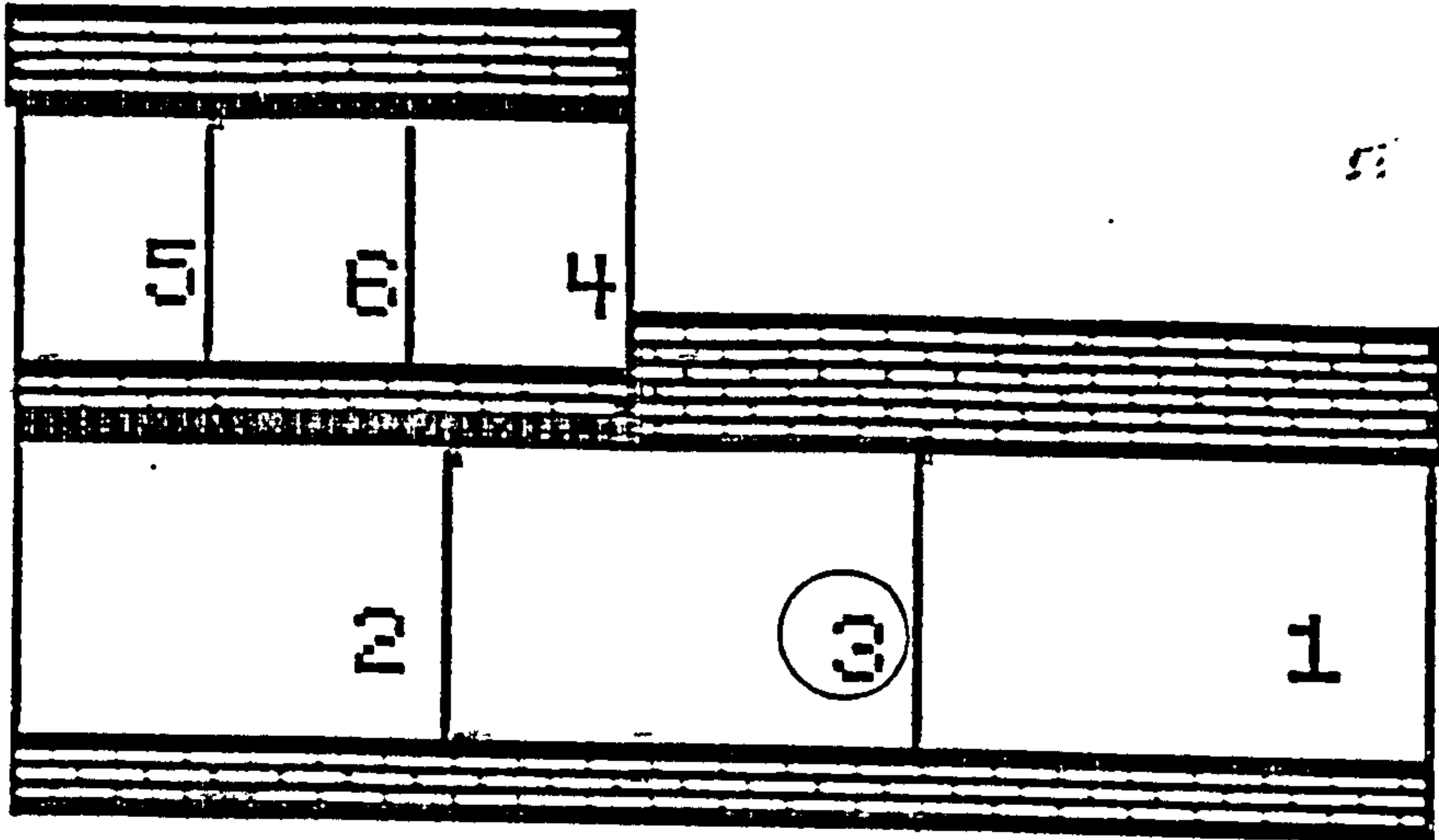
ORIENTATIONS: 67.5 & 112.5 & 247.5 & 292.5
 VISITORS ROOM WINDOW ON SIDE WALL -GROUND FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %				
0.50	1.00	0.02	4.	0.07	10.	0.05	7.	0.13	20.	0.07	11.	0.20	30.	0.12	19.	0.35	52.
0.50	1.25	0.03	5.	0.10	14.	0.07	10.	0.19	29.	0.10	15.	0.28	43.	0.18	27.	0.50	76.
0.50	1.50	0.05	7.	0.13	19.	0.09	14.	0.25	38.	0.13	20.	0.37	57.	0.25	37.	0.65	98.
0.50	1.75	0.06	8.	0.16	24.	0.11	17.	0.31	47.	0.18	27.	0.47	70.	0.34	51.	0.74	112.
0.75	1.00	0.03	5.	0.10	15.	0.07	10.	0.19	29.	0.10	16.	0.29	44.	0.18	28.	0.52	78.
0.75	1.25	0.05	8.	0.14	21.	0.10	15.	0.28	43.	0.15	23.	0.42	64.	0.27	40.	0.75	113.
0.75	1.50	0.07	10.	0.19	28.	0.13	20.	0.37	56.	0.20	30.	0.56	84.	0.37	55.	0.97	146.
0.75	1.75	0.08	13.	0.23	35.	0.17	25.	0.46	70.	0.26	40.	0.69	103.	0.50	76.	1.10	167.
1.00	1.00	0.05	7.	0.13	20.	0.09	14.	0.26	39.	0.14	21.	0.38	58.	0.24	37.	0.68	103.
1.00	1.25	0.07	10.	0.19	28.	0.13	20.	0.37	56.	0.20	30.	0.56	84.	0.35	53.	0.99	149.
1.00	1.50	0.09	13.	0.25	38.	0.18	27.	0.49	75.	0.26	40.	0.74	111.	0.48	73.	1.28	193.
1.00	1.75	0.11	17.	0.31	47.	0.22	33.	0.61	93.	0.35	53.	0.92	139.	0.66	100.	1.46	221.
1.25	1.00	0.06	9.	0.16	24.	0.11	17.	0.32	48.	0.17	26.	0.47	71.	0.30	45.	0.84	127.
1.25	1.25	0.08	12.	0.23	35.	0.16	25.	0.46	69.	0.25	37.	0.69	104.	0.44	66.	1.22	184.
1.25	1.50	0.11	17.	0.31	46.	0.22	33.	0.61	92.	0.32	49.	0.91	138.	0.60	90.	1.58	239.
1.25	1.75	0.14	21.	0.38	58.	0.27	41.	0.76	114.	0.43	65.	1.13	171.	0.82	124.	1.80	272.
1.50	1.00	0.07	10.	0.19	28.	0.13	20.	0.37	57.	0.20	30.	0.56	84.	0.35	54.	0.99	150.
1.50	1.25	0.10	15.	0.27	41.	0.19	29.	0.54	82.	0.29	44.	0.81	123.	0.51	78.	1.44	218.
1.50	1.50	0.13	20.	0.36	53.	0.26	39.	0.72	109.	0.38	58.	1.07	163.	0.71	107.	1.86	282.
1.50	1.75	0.16	24.	0.45	68.	0.32	48.	0.90	135.	0.51	77.	1.34	202.	0.97	147.	2.13	322.
1.75	1.00	0.08	12.	0.22	33.	0.15	23.	0.43	65.	0.23	35.	0.64	97.	0.41	61.	1.14	172.
1.75	1.25	0.11	17.	0.31	47.	0.22	34.	0.62	94.	0.33	50.	0.93	141.	0.59	89.	1.65	250.
1.75	1.50	0.15	22.	0.42	63.	0.29	45.	0.83	125.	0.44	67.	1.23	187.	0.81	123.	2.14	324.
1.75	1.75	0.18	28.	0.52	78.	0.37	56.	1.03	155.	0.58	88.	1.54	232.	1.12	169.	2.45	370.
2.00	1.00	0.09	13.	0.24	37.	0.17	26.	0.48	73.	0.26	39.	0.72	108.	0.47	70.	1.27	192.
2.00	1.25	0.13	19.	0.35	53.	0.25	38.	0.70	105.	0.37	56.	1.04	158.	0.68	102.	1.85	279.
2.00	1.50	0.17	25.	0.47	71.	0.33	50.	0.93	140.	0.49	75.	1.38	209.	0.93	140.	2.39	362.
2.00	1.75	0.21	31.	0.58	88.	0.41	62.	1.15	174.	0.66	99.	1.72	261.	1.28	193.	2.74	415.
2.25	1.00	0.09	14.	0.27	40.	0.19	28.	0.53	80.	0.28	43.	0.79	119.	0.55	83.	1.39	211.
2.25	1.25	0.14	21.	0.39	58.	0.27	41.	0.77	116.	0.41	62.	1.15	173.	0.79	120.	2.02	306.
2.25	1.50	0.18	28.	0.51	78.	0.36	55.	1.02	154.	0.54	82.	1.52	230.	1.08	163.	2.62	396.
2.25	1.75	0.23	35.	0.64	97.	0.45	69.	1.27	192.	0.72	109.	1.90	288.	1.47	222.	3.01	455.
2.50	1.00	0.10	16.	0.29	44.	0.20	31.	0.57	87.	0.35	52.	0.88	132.	0.62	94.	1.51	228.
2.50	1.25	0.15	23.	0.42	64.	0.30	45.	0.83	126.	0.50	76.	1.27	192.	0.90	136.	2.19	331.
2.50	1.50	0.20	30.	0.56	84.	0.40	60.	1.11	168.	0.66	100.	1.69	255.	1.22	185.	2.84	429.
2.50	1.75	0.25	38.	0.70	105.	0.49	75.	1.38	209.	0.87	132.	2.11	318.	1.65	250.	3.26	493.
2.75	1.00	0.11	17.	0.31	47.	0.22	33.	0.61	93.	0.41	62.	0.96	145.	0.70	105.	1.62	245.
2.75	1.25	0.16	24.	0.45	68.	0.32	48.	0.89	135.	0.59	89.	1.39	211.	1.01	152.	2.34	355.
2.75	1.50	0.21	32.	0.60	91.	0.42	64.	1.19	180.	0.78	118.	1.85	279.	1.36	206.	3.04	460.
2.75	1.75	0.27	40.	0.75	113.	0.53	80.	1.49	225.	1.02	154.	2.30	348.	1.82	276.	3.50	530.
3.00	1.00	0.12	18.	0.33	50.	0.27	41.	0.68	103.	0.47	71.	1.04	157.	0.77	116.	1.72	260.
3.00	1.25	0.17	26.	0.48	72.	0.39	60.	0.99	150.	0.68	103.	1.51	228.	1.10	167.	2.49	377.
3.00	1.50	0.23	34.	0.64	96.	0.52	79.	1.31	199.	0.90	136.	2.00	302.	1.49	226.	3.23	489.
3.00	1.75	0.28	43.	0.80	121.	0.65	99.	1.64	248.	1.16	176.	2.49	377.	1.99	301.	3.73	564.

ORIENTATIONS: EAST & WEST

VISITORS ROOM WINDOW ON SIDE WALL -GROUND FLOOR
OBST.HIGHT 4.50 POINT DIST. 2.5000

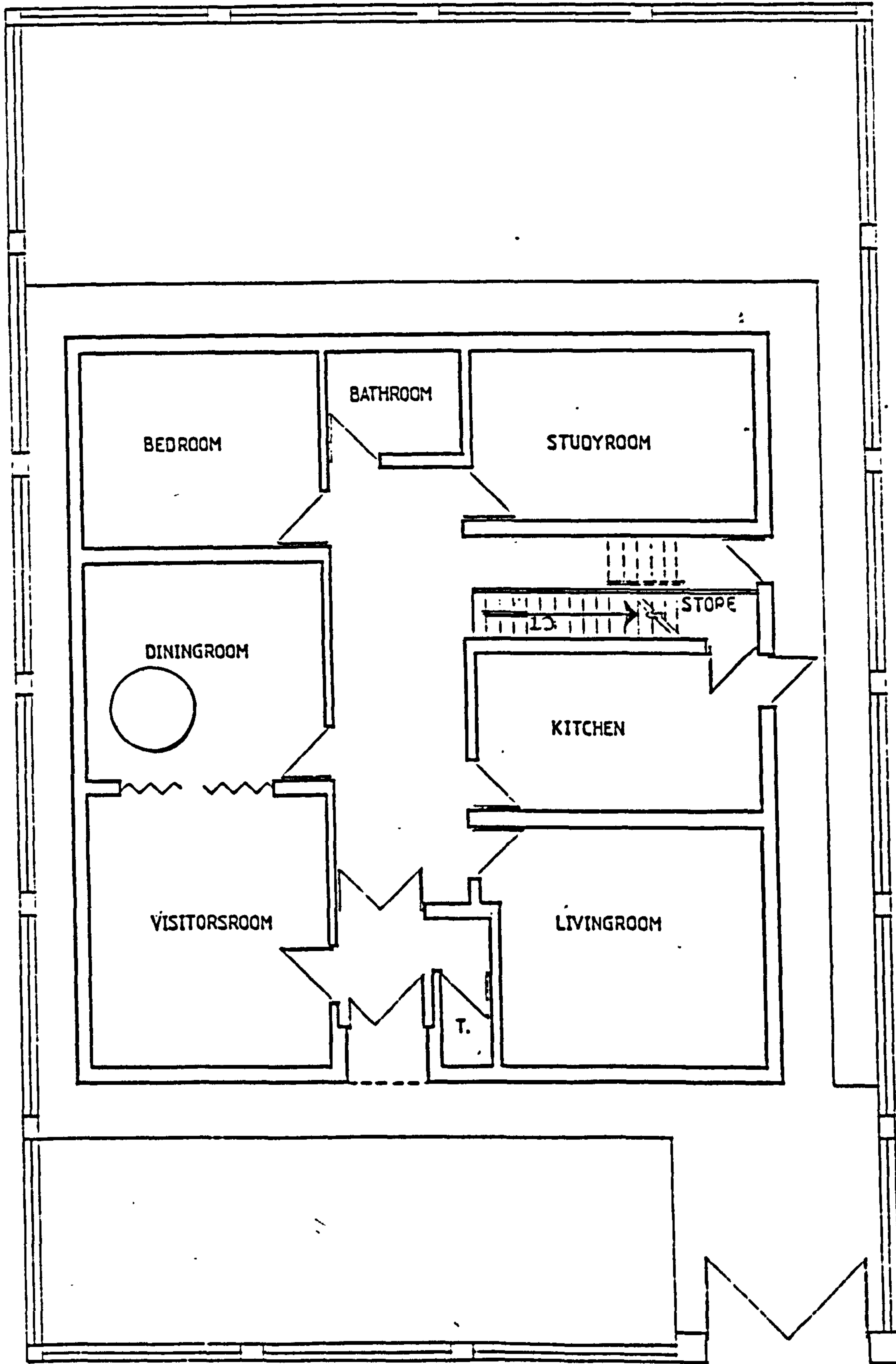
W I D T H	H E I G H T	INTER-HOUSE DIST.= 1.M			INTER-HOUSE DIST.= 2.M			INTER-HOUSE DIST.= 3.M			INTER-HOUSE DIST.= 4.M						
		SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 70%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 70%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 70%WALLREFL.	LUX	FA %				
0.50	1.00	0.06	9.	0.16	24.	0.08	12.	0.22	34.	0.10	16.	0.29	44.	0.12	19.	0.35	53.
0.50	1.25	0.08	12.	0.23	35.	0.11	18.	0.32	49.	0.15	23.	0.42	64.	0.18	27.	0.50	77.
0.50	1.50	0.11	16.	0.30	46.	0.15	23.	0.43	65.	0.20	30.	0.55	84.	0.25	38.	0.65	99.
0.50	1.75	0.13	20.	0.37	57.	0.19	29.	0.53	81.	0.25	39.	0.68	103.	0.34	52.	0.74	113.
0.75	1.00	0.08	13.	0.23	36.	0.12	18.	0.33	51.	0.15	23.	0.43	65.	0.18	28.	0.52	79.
0.75	1.25	0.12	19.	0.34	52.	0.17	26.	0.48	73.	0.22	34.	0.62	95.	0.27	41.	0.75	114.
0.75	1.50	0.16	25.	0.45	69.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.37	56.	0.97	148.
0.75	1.75	0.20	31.	0.56	85.	0.28	43.	0.79	121.	0.38	57.	1.01	154.	0.50	77.	1.10	169.
1.00	1.00	0.11	17.	0.31	47.	0.16	24.	0.44	67.	0.20	31.	0.56	86.	0.24	37.	0.68	104.
1.00	1.25	0.16	24.	0.45	68.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.35	54.	0.99	151.
1.00	1.50	0.21	32.	0.59	91.	0.30	46.	0.84	128.	0.39	59.	1.08	165.	0.48	74.	1.28	195.
1.00	1.75	0.26	40.	0.74	113.	0.37	57.	1.04	159.	0.50	76.	1.33	203.	0.67	102.	1.46	223.
1.25	1.00	0.14	21.	0.38	58.	0.19	29.	0.54	82.	0.25	38.	0.69	106.	0.30	46.	0.84	128.
1.25	1.25	0.20	30.	0.55	85.	0.28	43.	0.78	119.	0.36	55.	1.01	154.	0.44	67.	1.22	186.
1.25	1.50	0.26	40.	0.73	112.	0.37	56.	1.03	158.	0.48	73.	1.33	204.	0.60	91.	1.58	241.
1.25	1.75	0.33	50.	0.91	139.	0.46	70.	1.29	197.	0.61	94.	1.64	251.	0.82	126.	1.80	276.
1.50	1.00	0.16	25.	0.45	69.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.35	54.	0.99	152.
1.50	1.25	0.23	36.	0.65	100.	0.33	50.	0.92	141.	0.43	65.	1.19	182.	0.51	79.	1.44	220.
1.50	1.50	0.31	47.	0.87	132.	0.44	67.	1.22	187.	0.56	86.	1.58	241.	0.71	108.	1.86	285.
1.50	1.75	0.38	59.	1.08	165.	0.54	83.	1.52	233.	0.72	111.	1.94	297.	0.98	149.	2.13	326.
1.75	1.00	0.18	28.	0.52	79.	0.26	40.	0.73	111.	0.34	51.	0.94	144.	0.41	62.	1.14	174.
1.75	1.25	0.27	41.	0.75	115.	0.38	58.	1.06	162.	0.49	75.	1.36	209.	0.59	90.	1.65	253.
1.75	1.50	0.35	54.	0.99	152.	0.50	77.	1.40	215.	0.65	99.	1.81	277.	0.81	124.	2.14	327.
1.75	1.75	0.44	68.	1.24	189.	0.62	95.	1.75	267.	0.83	127.	2.23	341.	1.12	171.	2.45	375.
2.00	1.00	0.21	32.	0.58	88.	0.29	45.	0.81	125.	0.38	57.	1.05	161.	0.47	71.	1.27	194.
2.00	1.25	0.30	46.	0.84	128.	0.42	65.	1.18	181.	0.55	84.	1.53	234.	0.68	103.	1.85	282.
2.00	1.50	0.40	61.	1.11	170.	0.56	86.	1.57	241.	0.73	111.	2.03	311.	0.93	142.	2.39	366.
2.00	1.75	0.50	76.	1.39	212.	0.70	107.	1.96	300.	0.93	143.	2.50	383.	1.28	196.	2.74	420.
2.25	1.00	0.23	35.	0.63	97.	0.32	49.	0.90	137.	0.41	63.	1.16	177.	0.55	83.	1.39	213.
2.25	1.25	0.33	50.	0.92	141.	0.47	71.	1.30	200.	0.60	92.	1.68	258.	0.79	121.	2.02	309.
2.25	1.50	0.44	67.	1.23	188.	0.62	95.	1.73	265.	0.80	122.	2.24	342.	1.08	165.	2.62	401.
2.25	1.75	0.55	84.	1.53	234.	0.77	118.	2.16	330.	1.03	158.	2.76	422.	1.47	224.	3.01	460.
2.50	1.00	0.25	38.	0.69	105.	0.35	53.	0.97	149.	0.48	74.	1.26	193.	0.62	95.	1.51	230.
2.50	1.25	0.36	55.	1.00	153.	0.51	77.	1.42	217.	0.70	107.	1.83	280.	0.90	137.	2.19	334.
2.50	1.50	0.48	73.	1.33	204.	0.67	103.	1.88	288.	0.93	142.	2.43	372.	1.22	187.	2.83	433.
2.50	1.75	0.59	91.	1.66	254.	0.84	128.	2.35	359.	1.19	182.	3.00	459.	1.65	252.	3.26	499.
2.75	1.00	0.26	40.	0.74	113.	0.37	57.	1.04	160.	0.55	84.	1.36	208.	0.69	106.	1.61	247.
2.75	1.25	0.38	59.	1.08	165.	0.54	83.	1.52	233.	0.80	122.	1.97	302.	1.00	153.	2.34	358.
2.75	1.50	0.51	78.	1.43	219.	0.72	110.	2.02	309.	1.06	162.	2.62	401.	1.36	208.	3.04	464.
2.75	1.75	0.64	98.	1.79	274.	0.90	138.	2.53	386.	1.35	207.	3.23	495.	1.82	279.	3.50	535.
3.00	1.00	0.28	43.	0.79	120.	0.43	66.	1.12	172.	0.62	94.	1.45	222.	0.76	117.	1.71	262.
3.00	1.25	0.41	63.	1.14	175.	0.62	95.	1.64	250.	0.89	136.	2.11	322.	1.10	168.	2.49	380.
3.00	1.50	0.54	83.	1.52	233.	0.83	127.	2.18	333.	1.18	180.	2.80	428.	1.49	227.	3.22	493.
3.00	1.75	0.68	104.	1.90	291.	1.04	158.	2.72	416.	1.50	230.	3.45	528.	1.98	303.	3.72	569.



Key diagram showing the location
of window data ..

Side Hall No. 2
1 1/2 Storey

Interhouse Distance ..
1, 2, 3 and 4m.



GROUND FLOOR PLAN

ORIENTATIONS: NORTH & SOUTH

DINING ROOM WINDOW ON SIDE WALL-GROUND FLOOR
 OBST. HEIGHT 6.00 POINT DIST. 2.50

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M				
		SKY+EXTERNAL 25%WALLREFL. LUX	FA %	REFLECTION 70%WALLREFL. LUX	SKY+EXTERNAL 25%WALLREFL. LUX	FA %	REFLECTION 70%WALLREFL. LUX	SKY+EXTERNAL 25%WALLREFL. LUX	FA %	REFLECTION 70%WALLREFL. LUX	SKY+EXTERNAL 25%WALLREFL. LUX	FA %	REFLECTION 70%WALLREFL. LUX		
0.50	1.00	0.02	2.	0.04	6.	0.03	4.	0.05	6.	0.14	18.	0.07	9.	0.19	24.
0.50	1.25	0.02	3.	0.06	8.	0.05	6.	0.07	9.	0.20	26.	0.10	13.	0.27	35.
0.50	1.50	0.03	4.	0.08	11.	0.06	8.	0.10	12.	0.27	33.	0.13	17.	0.36	46.
0.50	1.75	0.04	5.	0.10	13.	0.08	10.	0.12	15.	0.33	43.	0.16	21.	0.45	58.
0.75	1.00	0.02	3.	0.07	8.	0.05	6.	0.07	10.	0.21	27.	0.10	13.	0.28	36.
0.75	1.25	0.03	4.	0.09	12.	0.07	9.	0.11	14.	0.30	39.	0.15	19.	0.41	52.
0.75	1.50	0.04	6.	0.13	16.	0.09	12.	0.14	18.	0.40	52.	0.19	25.	0.54	69.
0.75	1.75	0.06	7.	0.16	20.	0.12	15.	0.18	23.	0.50	64.	0.24	31.	0.67	86.
1.00	1.00	0.03	4.	0.09	11.	0.06	8.	0.10	13.	0.28	35.	0.13	17.	0.37	48.
1.00	1.25	0.04	6.	0.12	16.	0.09	12.	0.14	18.	0.40	51.	0.19	25.	0.54	69.
1.00	1.50	0.06	8.	0.17	21.	0.12	16.	0.17	24.	0.53	68.	0.25	33.	0.71	91.
1.00	1.75	0.07	9.	0.21	26.	0.15	20.	0.24	30.	0.66	85.	0.32	41.	0.88	114.
1.25	1.00	0.04	5.	0.11	14.	0.08	10.	0.12	16.	0.34	44.	0.16	21.	0.46	59.
1.25	1.25	0.05	7.	0.15	20.	0.11	15.	0.18	23.	0.49	63.	0.24	30.	0.66	85.
1.25	1.50	0.07	9.	0.20	26.	0.15	20.	0.23	30.	0.65	84.	0.31	40.	0.88	113.
1.25	1.75	0.09	12.	0.25	33.	0.19	24.	0.29	37.	0.81	104.	0.39	50.	1.09	140.
1.50	1.00	0.04	6.	0.13	16.	0.09	12.	0.14	18.	0.40	52.	0.19	25.	0.54	69.
1.50	1.25	0.06	8.	0.18	23.	0.14	17.	0.21	27.	0.58	75.	0.28	36.	0.78	101.
1.50	1.50	0.09	11.	0.24	31.	0.18	23.	0.28	35.	0.77	99.	0.37	48.	1.04	133.
1.50	1.75	0.11	14.	0.30	39.	0.22	29.	0.34	44.	0.96	124.	0.46	59.	1.29	166.
1.75	1.00	0.05	7.	0.14	18.	0.11	14.	0.16	21.	0.46	59.	0.22	28.	0.62	79.
1.75	1.25	0.07	10.	0.21	27.	0.16	20.	0.24	31.	0.67	86.	0.32	41.	0.90	115.
1.75	1.50	0.10	13.	0.28	36.	0.21	26.	0.32	41.	0.89	114.	0.43	55.	1.19	153.
1.75	1.75	0.12	16.	0.34	44.	0.26	33.	0.39	51.	1.10	142.	0.53	68.	1.48	171.
2.00	1.00	0.06	7.	0.16	21.	0.12	15.	0.18	24.	0.52	66.	0.25	32.	0.69	89.
2.00	1.25	0.08	11.	0.23	30.	0.17	22.	0.27	34.	0.75	96.	0.36	46.	1.01	129.
2.00	1.50	0.11	14.	0.31	40.	0.23	30.	0.36	46.	0.99	128.	0.48	61.	1.34	172.
2.00	1.75	0.14	18.	0.39	50.	0.29	37.	0.44	57.	1.24	159.	0.59	76.	1.67	214.
2.25	1.00	0.06	8.	0.18	23.	0.13	17.	0.20	26.	0.57	73.	0.27	35.	0.76	98.
2.25	1.25	0.09	12.	0.26	33.	0.19	25.	0.29	38.	0.83	106.	0.40	51.	1.11	142.
2.25	1.50	0.12	16.	0.34	44.	0.25	33.	0.39	50.	1.10	141.	0.53	68.	1.47	189.
2.25	1.75	0.15	20.	0.43	55.	0.32	41.	0.49	63.	1.37	175.	0.66	84.	1.84	236.
2.50	1.00	0.07	9.	0.19	25.	0.14	18.	0.22	28.	0.62	79.	0.30	38.	0.83	106.
2.50	1.25	0.10	13.	0.28	36.	0.21	27.	0.32	41.	0.90	115.	0.43	55.	1.20	155.
2.50	1.50	0.13	17.	0.37	48.	0.28	36.	0.43	55.	1.19	153.	0.57	73.	1.60	205.
2.50	1.75	0.17	21.	0.46	59.	0.35	44.	0.53	68.	1.49	191.	0.71	92.	2.00	256.
2.75	1.00	0.07	9.	0.21	26.	0.15	20.	0.24	30.	0.66	85.	0.32	41.	0.89	114.
2.75	1.25	0.11	14.	0.30	38.	0.22	29.	0.34	44.	0.96	123.	0.46	59.	1.29	166.
2.75	1.50	0.14	18.	0.40	51.	0.30	38.	0.46	59.	1.28	164.	0.61	79.	1.72	221.
2.75	1.75	0.18	23.	0.50	64.	0.37	48.	0.57	73.	1.60	205.	0.77	98.	2.15	276.
3.00	1.00	0.08	10.	0.22	28.	0.16	21.	0.25	32.	0.70	90.	0.34	43.	0.94	121.
3.00	1.25	0.11	15.	0.32	41.	0.24	30.	0.37	47.	1.02	131.	0.49	63.	1.37	176.
3.00	1.50	0.15	19.	0.42	54.	0.32	41.	0.49	62.	1.36	175.	0.65	84.	1.83	235.
3.00	1.75	0.19	24.	0.53	68.	0.40	51.	0.61	78.	1.70	218.	0.82	105.	2.28	293.

ORIENTATIONS: 22.5 & 157.5 & 202.5 & 337.5

DINING ROOM WINDOW ON SIDE WALL-GROUND FLOOR
OBST. HIGHT 6.00 POINT DIST. 2.50

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M				
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %		
0.50	1.00	0.02	2.	0.04	6.	0.11	16.	0.06	8.	0.16	23.	0.07	11.	0.21	29.
0.50	1.25	0.02	3.	0.06	8.	0.16	23.	0.08	12.	0.23	33.	0.11	15.	0.30	43.
0.50	1.50	0.03	4.	0.08	11.	0.21	30.	0.11	15.	0.31	43.	0.14	20.	0.40	56.
0.50	1.75	0.04	5.	0.10	15.	0.26	37.	0.14	19.	0.38	54.	0.18	25.	0.50	70.
0.75	1.00	0.02	3.	0.07	9.	0.17	23.	0.09	12.	0.24	34.	0.11	16.	0.31	44.
0.75	1.25	0.03	5.	0.09	13.	0.24	34.	0.12	17.	0.35	49.	0.16	23.	0.45	64.
0.75	1.50	0.04	6.	0.13	18.	0.32	45.	0.16	23.	0.46	65.	0.21	30.	0.60	84.
0.75	1.75	0.06	8.	0.16	22.	0.39	56.	0.20	29.	0.57	80.	0.26	37.	0.74	105.
1.00	1.00	0.03	4.	0.08	11.	0.22	31.	0.11	16.	0.31	44.	0.15	21.	0.41	58.
1.00	1.25	0.04	6.	0.11	16.	0.32	45.	0.16	23.	0.46	64.	0.21	30.	0.59	84.
1.00	1.50	0.06	8.	0.15	21.	0.42	59.	0.22	30.	0.60	85.	0.28	40.	0.79	111.
1.00	1.75	0.07	10.	0.19	26.	0.52	74.	0.27	38.	0.75	106.	0.35	49.	0.98	138.
1.25	1.00	0.04	5.	0.10	14.	0.27	38.	0.14	20.	0.39	55.	0.18	25.	0.50	71.
1.25	1.25	0.05	8.	0.14	20.	0.39	55.	0.20	28.	0.56	80.	0.26	37.	0.73	103.
1.25	1.50	0.07	10.	0.18	26.	0.52	73.	0.27	38.	0.75	105.	0.35	49.	0.97	137.
1.25	1.75	0.09	13.	0.23	32.	0.64	91.	0.33	47.	0.93	131.	0.43	61.	1.21	171.
1.50	1.00	0.04	6.	0.11	16.	0.32	45.	0.16	23.	0.46	65.	0.21	30.	0.60	84.
1.50	1.25	0.06	9.	0.16	23.	0.46	65.	0.24	34.	0.66	94.	0.31	44.	0.86	122.
1.50	1.50	0.09	12.	0.22	31.	0.61	86.	0.31	44.	0.88	125.	0.41	58.	1.15	162.
1.50	1.75	0.11	15.	0.27	38.	0.76	107.	0.39	55.	1.10	155.	0.51	72.	1.43	202.
1.75	1.00	0.05	7.	0.14	20.	0.36	51.	0.19	26.	0.52	74.	0.24	34.	0.68	96.
1.75	1.25	0.07	11.	0.19	27.	0.53	75.	0.27	38.	0.76	108.	0.35	50.	0.99	140.
1.75	1.50	0.10	14.	0.25	35.	0.70	99.	0.36	51.	1.01	143.	0.47	66.	1.32	186.
1.75	1.75	0.12	17.	0.31	44.	0.87	123.	0.45	64.	1.26	178.	0.59	83.	1.64	232.
2.00	1.00	0.06	8.	0.15	21.	0.41	58.	0.21	30.	0.59	83.	0.27	39.	0.76	108.
2.00	1.25	0.08	12.	0.21	30.	0.59	84.	0.30	43.	0.85	121.	0.40	56.	1.11	157.
2.00	1.50	0.11	16.	0.28	40.	0.79	111.	0.40	57.	1.13	160.	0.53	74.	1.48	208.
2.00	1.75	0.14	20.	0.39	49.	0.98	138.	0.50	71.	1.41	200.	0.66	93.	1.84	260.
2.25	1.00	0.06	9.	0.18	25.	0.45	63.	0.23	33.	0.65	91.	0.30	42.	0.84	119.
2.25	1.25	0.09	13.	0.23	33.	0.65	92.	0.34	47.	0.94	133.	0.44	62.	1.22	173.
2.25	1.50	0.12	17.	0.31	44.	0.87	122.	0.45	63.	1.25	177.	0.58	82.	1.63	230.
2.25	1.75	0.15	22.	0.39	54.	1.08	153.	0.56	79.	1.56	220.	0.72	102.	2.03	286.
2.50	1.00	0.07	10.	0.17	25.	0.49	69.	0.25	35.	0.70	99.	0.33	46.	0.91	129.
2.50	1.25	0.10	14.	0.25	36.	0.71	100.	0.36	52.	1.02	144.	0.47	67.	1.33	188.
2.50	1.50	0.13	19.	0.34	47.	0.94	133.	0.48	69.	1.36	192.	0.63	89.	1.77	250.
2.50	1.75	0.17	23.	0.46	59.	1.17	166.	0.60	85.	1.69	239.	0.79	111.	2.20	311.
2.75	1.00	0.07	10.	0.21	26.	0.52	74.	0.27	38.	0.75	106.	0.35	49.	0.98	138.
2.75	1.25	0.11	15.	0.30	38.	0.76	107.	0.39	55.	1.10	155.	0.51	72.	1.43	202.
2.75	1.50	0.14	20.	0.40	57.	1.13	160.	0.50	71.	1.41	200.	0.66	93.	1.84	260.
2.75	1.75	0.18	25.	0.50	79.	1.56	220.	0.60	85.	1.69	239.	0.79	111.	2.20	311.
3.00	1.00	0.08	11.	0.22	28.	0.55	80.	0.27	38.	0.75	105.	0.35	49.	0.98	138.
3.00	1.25	0.11	16.	0.32	45.	0.80	125.	0.41	58.	1.15	162.	0.51	72.	1.43	202.
3.00	1.50	0.15	21.	0.42	59.	1.17	166.	0.56	79.	1.56	220.	0.72	102.	2.03	286.
3.00	1.75	0.19	26.	0.52	74.	1.41	200.	0.66	93.	1.84	260.	0.91	129.	1.33	188.
3.00	1.75	0.25	36.	0.70	99.	2.03	286.	0.91	129.	1.33	188.	1.77	250.	2.50	350.
3.00	1.75	0.32	45.	0.87	122.	2.20	311.	1.11	157.	1.48	208.	1.77	250.	2.50	350.
3.00	1.75	0.42	60.	1.08	153.	2.20	311.	1.11	157.	1.48	208.	1.77	250.	2.50	350.
3.00	1.75	0.53	75.	1.34	190.	2.20	311.	1.11	157.	1.48	208.	1.77	250.	2.50	350.

ORIENTATIONS: 45.0 & 135.0 & 225.0 & 315.0
 DINING ROOM WINDOW ON SIDE WALL-GROUND FLOOR
 OBST.HIGHT 6.00 POINT DIST. 2.50

W I N D O W WIDTH HEIGHT	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M		
	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %
0.50	0.02	3.	0.06	0.04	6.	0.11	0.07	10.	0.19	27.	0.08	12.
0.50	0.03	5.	0.09	0.06	8.	0.16	0.10	14.	0.27	39.	0.12	18.
0.50	0.04	6.	0.12	0.08	11.	0.21	0.13	19.	0.36	52.	0.16	23.
0.50	0.05	8.	0.15	0.09	14.	0.26	0.16	23.	0.44	64.	0.20	29.
0.75	0.03	5.	0.09	0.06	9.	0.17	0.10	14.	0.28	40.	0.12	18.
0.75	0.05	7.	0.14	0.09	12.	0.24	0.14	21.	0.40	58.	0.18	26.
0.75	0.06	9.	0.18	0.11	16.	0.32	0.19	28.	0.53	77.	0.24	35.
0.75	0.08	12.	0.23	0.14	20.	0.39	0.24	34.	0.66	96.	0.30	43.
1.00	0.04	6.	0.12	0.08	11.	0.22	0.13	19.	0.37	53.	0.16	24.
1.00	0.06	9.	0.18	0.11	16.	0.32	0.19	27.	0.53	77.	0.24	35.
1.00	0.09	12.	0.24	0.15	22.	0.42	0.25	36.	0.70	102.	0.32	46.
1.00	0.11	15.	0.30	0.19	27.	0.52	0.31	45.	0.87	127.	0.39	57.
1.25	0.05	8.	0.15	0.10	14.	0.27	0.16	23.	0.45	65.	0.20	29.
1.25	0.08	12.	0.22	0.14	20.	0.39	0.23	34.	0.65	95.	0.29	43.
1.25	0.11	15.	0.30	0.18	27.	0.52	0.31	45.	0.87	126.	0.39	57.
1.25	0.13	19.	0.37	0.23	33.	0.64	0.39	56.	1.08	157.	0.48	70.
1.50	0.06	9.	0.18	0.11	16.	0.32	0.19	28.	0.53	77.	0.24	35.
1.50	0.09	14.	0.26	0.16	24.	0.46	0.28	40.	0.77	112.	0.35	50.
1.50	0.12	18.	0.35	0.22	32.	0.61	0.37	53.	1.03	149.	0.46	67.
1.50	0.16	23.	0.43	0.27	39.	0.76	0.46	66.	1.28	185.	0.57	83.
1.75	0.07	11.	0.21	0.13	19.	0.36	0.22	32.	0.61	89.	0.27	40.
1.75	0.11	16.	0.30	0.19	27.	0.53	0.32	46.	0.89	129.	0.40	58.
1.75	0.14	21.	0.40	0.25	36.	0.70	0.42	61.	1.18	171.	0.53	77.
1.75	0.18	26.	0.50	0.31	45.	0.87	0.52	76.	1.46	213.	0.66	96.
2.00	0.08	12.	0.23	0.15	21.	0.41	0.24	35.	0.68	97.	0.31	45.
2.00	0.12	18.	0.34	0.21	31.	0.59	0.35	51.	0.99	144.	0.45	65.
2.00	0.16	23.	0.45	0.28	41.	0.79	0.47	68.	1.32	191.	0.59	86.
2.00	0.20	29.	0.56	0.35	51.	0.98	0.59	85.	1.64	238.	0.74	107.
2.25	0.09	13.	0.26	0.16	23.	0.45	0.27	39.	0.75	109.	0.34	49.
2.25	0.13	19.	0.37	0.23	34.	0.65	0.39	57.	1.09	159.	0.49	71.
2.25	0.18	26.	0.49	0.31	45.	0.87	0.52	75.	1.45	211.	0.65	95.
2.25	0.22	32.	0.62	0.39	56.	1.08	0.65	94.	1.81	263.	0.81	118.
2.50	0.10	14.	0.28	0.17	25.	0.49	0.29	42.	0.82	118.	0.37	53.
2.50	0.14	21.	0.40	0.25	37.	0.71	0.42	62.	1.19	172.	0.53	77.
2.50	0.19	28.	0.54	0.34	49.	0.94	0.56	82.	1.58	229.	0.71	103.
2.50	0.24	35.	0.67	0.42	61.	1.17	0.70	102.	1.97	286.	0.89	129.
2.75	0.11	15.	0.30	0.19	27.	0.52	0.31	45.	0.87	127.	0.39	57.
2.75	0.15	22.	0.43	0.27	39.	0.76	0.46	66.	1.27	185.	0.57	83.
2.75	0.21	30.	0.58	0.36	52.	1.01	0.61	88.	1.70	246.	0.76	111.
2.75	0.26	37.	0.72	0.45	65.	1.26	0.76	110.	2.12	307.	0.95	138.
3.00	0.11	16.	0.32	0.20	29.	0.55	0.33	48.	0.93	135.	0.42	61.
3.00	0.16	24.	0.46	0.29	42.	0.81	0.48	70.	1.36	197.	0.61	88.
3.00	0.22	32.	0.61	0.38	56.	1.08	0.64	94.	1.80	262.	0.81	118.
3.00	0.27	40.	0.77	0.48	70.	1.34	0.81	117.	2.25	327.	1.01	147.

T A B L E :

ORIENTATIONS: 67.5 & 112.5 & 247.5 & 292.5
 DINING ROOM WINDOW ON SIDE WALL-GROUND FLOOR
 OBST. HEIGHT 6.00 POINT DIST. 2.50

W I N D O W WIDTH HEIGHT	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M							
	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ					
0.50	1.00	5.	0.03	0.09	14.	0.05	7.	0.14	21.	0.07	10.	0.19	28.	0.09	14.	0.25	38.
0.50	1.25	7.	0.05	0.13	20.	0.07	11.	0.20	30.	0.10	13.	0.27	41.	0.13	20.	0.37	56.
0.50	1.50	9.	0.06	0.17	26.	0.09	14.	0.26	40.	0.13	19.	0.36	54.	0.17	26.	0.49	74.
0.50	1.75	12.	0.08	0.21	32.	0.12	18.	0.33	49.	0.16	24.	0.44	67.	0.22	33.	0.61	92.
0.75	1.00	7.	0.05	0.13	20.	0.07	11.	0.20	31.	0.10	15.	0.28	42.	0.13	20.	0.38	57.
0.75	1.25	10.	0.07	0.19	29.	0.11	16.	0.30	45.	0.14	22.	0.40	61.	0.20	30.	0.55	83.
0.75	1.50	14.	0.09	0.26	39.	0.14	21.	0.39	59.	0.19	29.	0.53	80.	0.26	39.	0.73	110.
0.75	1.75	17.	0.11	0.32	48.	0.17	26.	0.49	74.	0.24	36.	0.66	100.	0.32	49.	0.90	136.
1.00	1.00	9.	0.06	0.18	27.	0.10	15.	0.27	41.	0.13	20.	0.37	55.	0.18	27.	0.50	75.
1.00	1.25	14.	0.09	0.25	39.	0.14	21.	0.39	59.	0.19	29.	0.53	80.	0.26	39.	0.72	109.
1.00	1.50	18.	0.12	0.34	51.	0.18	28.	0.52	78.	0.25	38.	0.70	106.	0.34	52.	0.96	145.
1.00	1.75	23.	0.15	0.42	64.	0.23	35.	0.64	97.	0.31	47.	0.87	132.	0.43	64.	1.19	180.
1.25	1.00	12.	0.08	0.22	33.	0.12	18.	0.33	50.	0.16	24.	0.45	68.	0.22	33.	0.61	93.
1.25	1.25	17.	0.11	0.31	48.	0.17	26.	0.48	73.	0.23	35.	0.65	99.	0.32	48.	0.89	135.
1.25	1.50	23.	0.13	0.42	63.	0.23	34.	0.64	77.	0.31	47.	0.87	131.	0.42	64.	1.18	179.
1.25	1.75	28.	0.19	0.52	78.	0.28	43.	0.79	120.	0.39	58.	1.08	163.	0.53	80.	1.47	223.
1.50	1.00	14.	0.07	0.26	39.	0.14	21.	0.37	59.	0.17	29.	0.53	81.	0.26	39.	0.73	110.
1.50	1.25	20.	0.13	0.37	56.	0.20	31.	0.57	86.	0.28	42.	0.77	117.	0.38	57.	1.05	160.
1.50	1.50	27.	0.18	0.49	75.	0.27	41.	0.75	114.	0.37	55.	1.03	155.	0.50	76.	1.40	212.
1.50	1.75	33.	0.22	0.61	93.	0.34	51.	0.94	142.	0.46	69.	1.28	193.	0.62	94.	1.74	263.
1.75	1.00	16.	0.10	0.29	44.	0.16	24.	0.45	68.	0.22	33.	0.61	92.	0.30	45.	0.83	126.
1.75	1.25	23.	0.15	0.43	64.	0.23	35.	0.65	99.	0.32	48.	0.89	134.	0.43	65.	1.21	183.
1.75	1.50	31.	0.20	0.57	86.	0.31	47.	0.87	131.	0.42	64.	1.18	178.	0.57	87.	1.60	243.
1.75	1.75	38.	0.25	0.70	107.	0.39	58.	1.08	163.	0.52	79.	1.46	222.	0.71	108.	2.00	302.
2.00	1.00	18.	0.12	0.33	50.	0.18	27.	0.50	76.	0.24	37.	0.68	103.	0.33	50.	0.93	141.
2.00	1.25	26.	0.17	0.48	72.	0.26	40.	0.73	111.	0.35	54.	0.99	150.	0.48	73.	1.36	205.
2.00	1.50	34.	0.23	0.63	96.	0.35	52.	0.97	147.	0.47	71.	1.32	199.	0.64	97.	1.80	272.
2.00	1.75	43.	0.28	0.79	120.	0.43	65.	1.21	183.	0.59	89.	1.64	249.	0.80	121.	2.24	339.
2.25	1.00	20.	0.13	0.36	55.	0.20	30.	0.55	84.	0.27	41.	0.75	114.	0.37	55.	1.03	155.
2.25	1.25	28.	0.19	0.53	80.	0.29	44.	0.81	122.	0.39	59.	1.09	165.	0.53	81.	1.49	226.
2.25	1.50	38.	0.25	0.70	106.	0.38	58.	1.07	162.	0.52	79.	1.45	220.	0.71	107.	1.98	300.
2.25	1.75	47.	0.31	0.87	132.	0.48	72.	1.33	202.	0.65	98.	1.81	274.	0.88	134.	2.47	374.
2.50	1.00	21.	0.14	0.39	59.	0.21	32.	0.60	91.	0.29	44.	0.82	123.	0.40	60.	1.11	168.
2.50	1.25	31.	0.20	0.57	86.	0.31	47.	0.87	132.	0.42	64.	1.19	180.	0.58	88.	1.62	245.
2.50	1.50	41.	0.27	0.76	115.	0.42	63.	1.16	176.	0.56	85.	1.58	239.	0.77	116.	2.15	326.
2.50	1.75	51.	0.34	0.95	143.	0.52	78.	1.45	219.	0.70	106.	1.97	298.	0.96	145.	2.69	407.
2.75	1.00	23.	0.15	0.42	64.	0.23	35.	0.64	97.	0.31	47.	0.87	132.	0.43	64.	1.19	181.
2.75	1.25	33.	0.22	0.61	93.	0.34	51.	0.94	142.	0.46	69.	1.27	193.	0.62	94.	1.74	263.
2.75	1.50	44.	0.29	0.82	123.	0.45	67.	1.25	189.	0.61	92.	1.70	257.	0.83	125.	2.31	350.
2.75	1.75	55.	0.36	1.02	154.	0.56	84.	1.56	236.	0.76	114.	2.12	320.	1.03	156.	2.89	437.
3.00	1.00	24.	0.16	0.45	68.	0.24	37.	0.68	104.	0.33	50.	0.93	141.	0.45	69.	1.27	192.
3.00	1.25	35.	0.23	0.65	99.	0.36	54.	1.00	151.	0.48	73.	1.36	205.	0.66	100.	1.85	280.
3.00	1.50	47.	0.31	0.87	131.	0.47	72.	1.33	201.	0.64	97.	1.80	273.	0.88	133.	2.46	372.
3.00	1.75	59.	0.39	1.08	164.	0.59	90.	1.66	251.	0.81	122.	2.25	341.	1.10	166.	3.08	465.

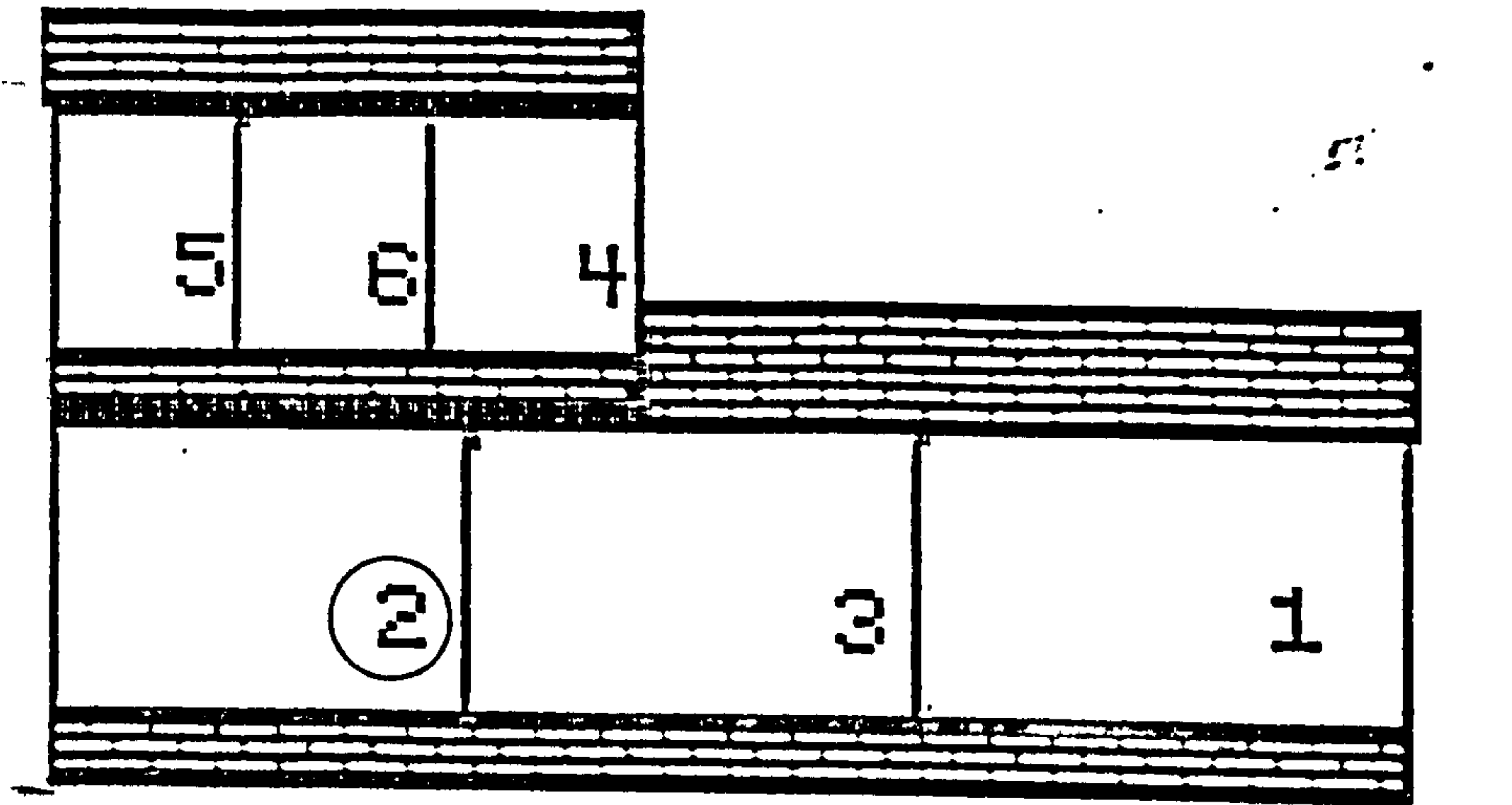
T A B L E :

ORIENTATIONS: EAST & WEST

DINING ROOM WINDOW ON SIDE WALL-GROUND FLOOR
OBST.HIGHT 6.00 POINT DIST. 2.50

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ				
0.50	1.00	0.04	6.	0.11	17.	0.06	9.	0.16	24.	0.07	11.	0.21	31.	0.09	14.	0.25	39.
0.50	1.25	0.06	9.	0.16	24.	0.08	12.	0.23	35.	0.11	16.	0.30	46.	0.13	20.	0.37	56.
0.50	1.50	0.07	11.	0.21	32.	0.11	16.	0.30	46.	0.14	22.	0.39	60.	0.17	27.	0.49	75.
0.50	1.75	0.09	14.	0.26	40.	0.13	20.	0.37	57.	0.18	27.	0.49	75.	0.22	33.	0.61	93.
0.75	1.00	0.06	9.	0.16	25.	0.08	13.	0.23	36.	0.11	17.	0.31	47.	0.13	21.	0.38	58.
0.75	1.25	0.08	13.	0.24	36.	0.12	18.	0.34	52.	0.16	24.	0.44	68.	0.20	30.	0.55	84.
0.75	1.50	0.11	17.	0.31	48.	0.16	24.	0.45	68.	0.21	32.	0.59	90.	0.26	40.	0.73	111.
0.75	1.75	0.14	21.	0.39	59.	0.20	30.	0.56	85.	0.26	40.	0.73	112.	0.32	49.	0.90	138.
1.00	1.00	0.08	12.	0.21	33.	0.11	17.	0.31	47.	0.14	22.	0.40	62.	0.18	27.	0.50	76.
1.00	1.25	0.11	17.	0.31	48.	0.16	24.	0.45	68.	0.21	32.	0.59	90.	0.26	40.	0.72	111.
1.00	1.50	0.15	22.	0.41	63.	0.21	32.	0.59	90.	0.28	42.	0.78	119.	0.34	52.	0.96	147.
1.00	1.75	0.18	28.	0.51	78.	0.26	40.	0.73	112.	0.34	53.	0.97	148.	0.43	65.	1.19	182.
1.25	1.00	0.09	14.	0.26	40.	0.14	21.	0.38	58.	0.18	27.	0.50	76.	0.22	34.	0.61	94.
1.25	1.25	0.14	21.	0.38	59.	0.20	30.	0.55	84.	0.26	40.	0.72	111.	0.32	49.	0.89	137.
1.25	1.50	0.18	28.	0.51	78.	0.26	40.	0.73	112.	0.34	52.	0.96	147.	0.42	65.	1.18	181.
1.25	1.75	0.23	35.	0.63	97.	0.32	50.	0.91	139.	0.43	65.	1.19	182.	0.53	80.	1.47	225.
1.50	1.00	0.11	17.	0.31	48.	0.16	24.	0.45	69.	0.21	32.	0.59	90.	0.26	40.	0.73	111.
1.50	1.25	0.16	25.	0.45	69.	0.23	36.	0.65	100.	0.31	47.	0.85	131.	0.38	58.	1.05	161.
1.50	1.50	0.21	33.	0.60	92.	0.31	47.	0.86	132.	0.40	62.	1.13	173.	0.50	76.	1.40	214.
1.50	1.75	0.27	41.	0.75	114.	0.38	59.	1.07	164.	0.50	77.	1.41	216.	0.62	95.	1.74	266.
1.75	1.00	0.13	20.	0.36	55.	0.18	28.	0.51	78.	0.24	37.	0.67	103.	0.30	45.	0.83	127.
1.75	1.25	0.19	28.	0.52	79.	0.27	41.	0.75	114.	0.35	54.	0.98	150.	0.43	66.	1.21	185.
1.75	1.50	0.25	38.	0.69	105.	0.35	54.	0.99	151.	0.46	71.	1.30	199.	0.57	88.	1.60	245.
1.75	1.75	0.31	47.	0.86	131.	0.44	67.	1.23	188.	0.58	88.	1.62	248.	0.71	109.	2.00	306.
2.00	1.00	0.14	22.	0.40	61.	0.21	31.	0.57	88.	0.27	41.	0.75	115.	0.33	51.	0.93	143.
2.00	1.25	0.21	32.	0.58	89.	0.30	46.	0.84	128.	0.39	60.	1.10	168.	0.48	74.	1.36	207.
2.00	1.50	0.28	42.	0.77	118.	0.40	61.	1.11	170.	0.52	80.	1.46	223.	0.64	98.	1.80	275.
2.00	1.75	0.34	53.	0.96	147.	0.49	76.	1.38	211.	0.65	99.	1.82	278.	0.80	122.	2.24	343.
2.25	1.00	0.16	24.	0.44	67.	0.23	35.	0.63	97.	0.30	45.	0.83	127.	0.37	56.	1.03	157.
2.25	1.25	0.23	35.	0.64	98.	0.33	50.	0.92	141.	0.43	66.	1.21	185.	0.53	82.	1.49	228.
2.25	1.50	0.30	47.	0.85	130.	0.44	67.	1.22	187.	0.57	88.	1.61	246.	0.71	108.	1.98	303.
2.25	1.75	0.38	58.	1.06	162.	0.54	83.	1.52	233.	0.72	109.	2.00	306.	0.88	135.	2.47	378.
2.50	1.00	0.17	26.	0.48	73.	0.25	37.	0.69	105.	0.32	49.	0.90	138.	0.40	61.	1.11	170.
2.50	1.25	0.25	38.	0.70	106.	0.36	55.	1.00	153.	0.47	72.	1.31	201.	0.58	88.	1.62	248.
2.50	1.50	0.33	51.	0.93	141.	0.47	73.	1.33	203.	0.62	95.	1.74	267.	0.77	118.	2.15	329.
2.50	1.75	0.41	63.	1.15	177.	0.59	91.	1.66	253.	0.78	119.	2.18	333.	0.96	147.	2.69	411.
2.75	1.00	0.18	28.	0.51	78.	0.26	40.	0.74	113.	0.35	53.	0.97	148.	0.43	65.	1.19	183.
2.75	1.25	0.27	41.	0.75	114.	0.38	59.	1.07	164.	0.50	77.	1.41	215.	0.62	95.	1.74	266.
2.75	1.50	0.35	54.	0.99	152.	0.51	78.	1.43	218.	0.67	102.	1.87	287.	0.83	126.	2.31	354.
2.75	1.75	0.44	68.	1.24	190.	0.64	77.	1.78	272.	0.84	128.	2.34	358.	1.03	158.	2.87	442.
3.00	1.00	0.19	30.	0.54	83.	0.28	43.	0.78	120.	0.37	56.	1.03	157.	0.45	69.	1.27	194.
3.00	1.25	0.28	43.	0.79	121.	0.41	62.	1.14	174.	0.54	82.	1.50	227.	0.66	101.	1.85	283.
3.00	1.50	0.38	58.	1.06	162.	0.54	83.	1.52	232.	0.71	109.	1.99	305.	0.88	134.	2.46	376.
3.00	1.75	0.47	72.	1.32	202.	0.68	104.	1.90	290.	0.89	136.	2.49	381.	1.10	168.	3.08	470.

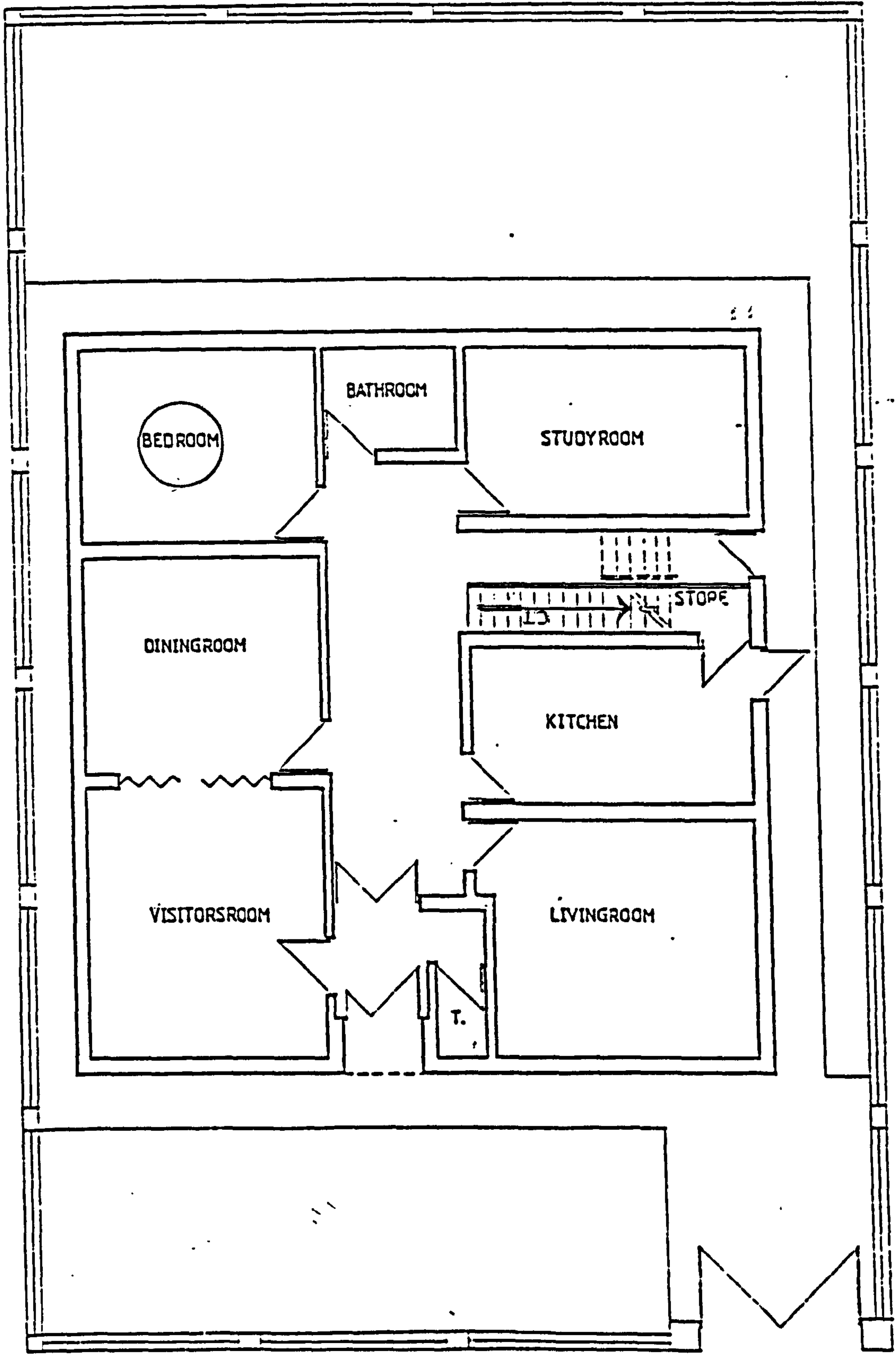
T A B L E :



Key diagram showing the location
of window data ..

Side Wall No. 2
1 1/2 Storey

Interhouse Distance ..
1, 2, 3 and 4m.



ARCHITECTURAL FLOOR PLAN

BEDROOM		WINDOW ON		SIDE WALL-GROUND FLOOR		INTER-HOUSE DIST. = 2.M		INTER-HOUSE DIST. = 3.M		INTER-HOUSE DIST. = 4.M							
OBST. HEIGHT 7.50		POINT DIST. 2.50				SKY+EXTERNAL REFLECTION		SKY+EXTERNAL REFLECTION		SKY+EXTERNAL REFLECTION							
WIDTH	HEIGHT	INTER-HOUSE DIST. = 1.M	FA %	25%WALLREFL.	LUX	FA %	LUX	FA %	LUX	FA %	LUX						
0.50	1.00	0.01	2.	0.03	4.	0.03	3.	0.07	9.	0.04	5.	0.11	14.	0.05	7.	0.15	19.
0.50	1.25	0.02	2.	0.05	6.	0.04	5.	0.10	13.	0.06	7.	0.16	21.	0.08	10.	0.22	28.
0.50	1.50	0.02	3.	0.07	9.	0.05	6.	0.14	18.	0.08	10.	0.21	27.	0.10	13.	0.29	37.
0.50	1.75	0.03	4.	0.08	11.	0.06	8.	0.17	22.	0.09	12.	0.26	34.	0.13	16.	0.36	46.
0.75	1.00	0.02	2.	0.05	7.	0.04	5.	0.11	14.	0.06	8.	0.17	21.	0.08	10.	0.22	29.
0.75	1.25	0.03	3.	0.07	10.	0.06	7.	0.16	20.	0.09	11.	0.24	31.	0.12	15.	0.32	42.
0.75	1.50	0.04	5.	0.10	13.	0.07	9.	0.21	26.	0.11	15.	0.32	41.	0.15	20.	0.43	55.
0.75	1.75	0.04	6.	0.12	16.	0.09	12.	0.26	33.	0.14	18.	0.39	51.	0.19	24.	0.53	69.
1.00	1.00	0.02	3.	0.07	9.	0.05	6.	0.14	18.	0.08	10.	0.22	28.	0.11	14.	0.29	38.
1.00	1.25	0.04	5.	0.10	13.	0.07	9.	0.20	26.	0.11	14.	0.32	41.	0.15	20.	0.43	55.
1.00	1.50	0.05	6.	0.13	17.	0.10	12.	0.27	35.	0.13	19.	0.42	54.	0.20	26.	0.57	73.
1.00	1.75	0.06	7.	0.16	21.	0.12	13.	0.34	43.	0.17	24.	0.52	67.	0.23	32.	0.70	90.
1.25	1.00	0.03	4.	0.08	11.	0.06	8.	0.17	22.	0.10	12.	0.27	34.	0.13	17.	0.36	47.
1.25	1.25	0.04	6.	0.12	16.	0.09	12.	0.25	32.	0.14	18.	0.39	50.	0.19	24.	0.53	68.
1.25	1.50	0.06	7.	0.16	21.	0.12	15.	0.34	43.	0.18	24.	0.52	66.	0.25	32.	0.70	90.
1.25	1.75	0.07	7.	0.20	26.	0.15	17.	0.42	54.	0.23	27.	0.64	83.	0.31	40.	0.87	112.
1.50	1.00	0.04	5.	0.10	13.	0.07	9.	0.21	26.	0.11	15.	0.32	41.	0.15	20.	0.43	55.
1.50	1.25	0.05	7.	0.14	17.	0.11	14.	0.30	38.	0.16	21.	0.46	59.	0.22	29.	0.62	80.
1.50	1.50	0.07	9.	0.19	25.	0.14	18.	0.40	51.	0.22	28.	0.61	78.	0.30	38.	0.83	106.
1.50	1.75	0.07	11.	0.24	31.	0.18	23.	0.47	63.	0.27	33.	0.76	98.	0.37	47.	1.03	132.
1.75	1.00	0.04	5.	0.11	15.	0.08	11.	0.24	30.	0.13	17.	0.36	47.	0.20	25.	0.50	65.
1.75	1.25	0.06	8.	0.17	21.	0.12	16.	0.34	44.	0.19	24.	0.53	68.	0.28	36.	0.73	93.
1.75	1.50	0.08	10.	0.22	28.	0.16	21.	0.45	58.	0.25	32.	0.70	90.	0.37	48.	0.96	124.
1.75	1.75	0.10	13.	0.27	35.	0.20	26.	0.57	73.	0.31	40.	0.87	112.	0.46	59.	1.20	154.
2.00	1.00	0.05	6.	0.13	16.	0.09	12.	0.26	34.	0.16	20.	0.42	53.	0.26	33.	0.58	75.
2.00	1.25	0.07	8.	0.19	24.	0.14	18.	0.38	49.	0.23	29.	0.60	77.	0.37	47.	0.84	108.
2.00	1.50	0.09	11.	0.25	32.	0.18	23.	0.51	65.	0.30	39.	0.80	102.	0.48	61.	1.11	142.
2.00	1.75	0.11	14.	0.31	39.	0.23	29.	0.64	82.	0.37	48.	0.99	128.	0.59	75.	1.37	176.
2.25	1.00	0.05	6.	0.14	18.	0.10	13.	0.29	37.	0.21	27.	0.48	62.	0.32	40.	0.66	85.
2.25	1.25	0.07	9.	0.20	26.	0.15	19.	0.42	54.	0.30	39.	0.70	90.	0.45	57.	0.95	121.
2.25	1.50	0.10	12.	0.27	35.	0.20	26.	0.56	72.	0.40	51.	0.92	118.	0.58	74.	1.24	159.
2.25	1.75	0.12	15.	0.34	43.	0.25	32.	0.70	90.	0.49	63.	1.14	146.	0.71	91.	1.53	197.
2.50	1.00	0.05	7.	0.15	20.	0.14	17.	0.33	43.	0.27	34.	0.55	70.	0.37	47.	0.73	94.
2.50	1.25	0.08	10.	0.22	28.	0.20	25.	0.48	62.	0.37	48.	0.79	101.	0.52	67.	1.04	134.
2.50	1.50	0.11	14.	0.29	38.	0.26	33.	0.64	82.	0.47	62.	1.03	133.	0.67	86.	1.37	176.
2.50	1.75	0.13	17.	0.37	47.	0.32	41.	0.80	102.	0.59	76.	1.28	164.	0.82	105.	1.69	217.
2.75	1.00	0.06	7.	0.16	21.	0.18	23.	0.37	50.	0.31	40.	0.61	78.	0.42	54.	0.80	102.
2.75	1.25	0.08	11.	0.24	31.	0.26	33.	0.56	72.	0.44	57.	0.87	112.	0.59	76.	1.14	146.
2.75	1.50	0.11	15.	0.32	41.	0.34	43.	0.73	94.	0.57	73.	1.14	146.	0.76	98.	1.49	191.
2.75	1.75	0.14	18.	0.40	51.	0.41	53.	0.91	117.	0.70	89.	1.41	181.	0.93	119.	1.83	235.
3.00	1.00	0.06	8.	0.17	22.	0.23	27.	0.44	56.	0.36	46.	0.66	85.	0.47	60.	0.86	110.
3.00	1.25	0.09	12.	0.25	32.	0.32	41.	0.63	80.	0.50	65.	0.95	122.	0.65	84.	1.22	157.
3.00	1.50	0.12	15.	0.34	43.	0.41	53.	0.82	106.	0.63	83.	1.24	157.	0.84	108.	1.60	205.
3.00	1.75	0.15	19.	0.42	54.	0.50	64.	1.02	130.	0.79	101.	1.53	196.	1.03	132.	1.97	253.

T A B L E :

BEDROOM WINDOW ON SIDE WALL-GROUND FLOOR
OBST.HIGHT 7.50 POINT DIST. 2.50

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST.= 1.M			INTER-HOUSE DIST.= 2.M			INTER-HOUSE DIST.= 3.M			INTER-HOUSE DIST.= 4.M				
		SKY+EXTERNAL REFLECTION	70%WALLREFL. FA %	LUX	SKY+EXTERNAL REFLECTION	70%WALLREFL. FA %	LUX	SKY+EXTERNAL REFLECTION	70%WALLREFL. FA %	LUX	SKY+EXTERNAL REFLECTION	70%WALLREFL. FA %	LUX		
0.50	1.00	0.01	2.	0.03	5.	0.03	4.	0.09	12.	0.13	6.	0.06	8.	0.17	24.
0.50	1.25	0.02	3.	0.05	7.	0.05	6.	0.13	18.	0.18	9.	0.09	12.	0.24	34.
0.50	1.50	0.02	3.	0.07	9.	0.06	9.	0.17	24.	0.24	12.	0.11	16.	0.32	45.
0.50	1.75	0.03	4.	0.08	12.	0.08	11.	0.21	30.	0.30	15.	0.14	20.	0.40	56.
0.75	1.00	0.02	3.	0.05	7.	0.05	7.	0.13	19.	0.19	10.	0.09	13.	0.25	35.
0.75	1.25	0.03	4.	0.07	11.	0.07	10.	0.19	27.	0.27	14.	0.13	18.	0.36	51.
0.75	1.50	0.04	5.	0.10	14.	0.09	13.	0.25	36.	0.36	18.	0.17	24.	0.48	67.
0.75	1.75	0.04	6.	0.12	17.	0.11	16.	0.31	44.	0.43	23.	0.21	30.	0.59	84.
1.00	1.00	0.02	3.	0.07	10.	0.06	9.	0.17	24.	0.25	13.	0.09	13.	0.33	46.
1.00	1.25	0.04	5.	0.10	14.	0.09	13.	0.25	36.	0.36	18.	0.17	24.	0.47	67.
1.00	1.50	0.05	7.	0.13	19.	0.12	17.	0.33	47.	0.48	24.	0.22	32.	0.63	89.
1.00	1.75	0.06	8.	0.16	23.	0.15	21.	0.41	59.	0.60	30.	0.28	39.	0.78	110.
1.25	1.00	0.03	4.	0.08	12.	0.08	11.	0.21	30.	0.31	16.	0.14	20.	0.40	57.
1.25	1.25	0.04	6.	0.12	17.	0.11	16.	0.31	44.	0.45	23.	0.21	30.	0.59	83.
1.25	1.50	0.06	8.	0.16	23.	0.15	21.	0.41	58.	0.59	30.	0.28	39.	0.78	110.
1.25	1.75	0.07	10.	0.20	28.	0.18	26.	0.51	72.	0.74	37.	0.34	49.	0.97	136.
1.50	1.00	0.04	5.	0.10	14.	0.09	13.	0.25	36.	0.36	18.	0.17	24.	0.48	67.
1.50	1.25	0.05	7.	0.14	20.	0.13	19.	0.37	52.	0.53	27.	0.25	35.	0.69	98.
1.50	1.50	0.07	10.	0.19	27.	0.17	25.	0.49	69.	0.70	35.	0.33	45.	0.92	130.
1.50	1.75	0.09	12.	0.24	34.	0.22	31.	0.61	86.	0.87	44.	0.41	58.	1.14	161.
1.75	1.00	0.04	6.	0.11	16.	0.10	15.	0.29	41.	0.42	21.	0.21	30.	0.55	78.
1.75	1.25	0.06	8.	0.17	23.	0.15	21.	0.42	59.	0.61	31.	0.31	43.	0.80	113.
1.75	1.50	0.08	11.	0.22	31.	0.20	28.	0.56	79.	0.80	41.	0.41	57.	1.06	150.
1.75	1.75	0.10	14.	0.27	39.	0.25	35.	0.69	98.	1.00	51.	0.50	71.	1.32	187.
2.00	1.00	0.05	6.	0.13	18.	0.12	16.	0.32	46.	0.47	25.	0.27	39.	0.64	90.
2.00	1.25	0.07	9.	0.19	26.	0.17	24.	0.47	67.	0.69	36.	0.39	55.	0.92	129.
2.00	1.50	0.09	12.	0.25	35.	0.22	32.	0.63	88.	0.91	48.	0.51	72.	1.21	171.
2.00	1.75	0.11	15.	0.31	43.	0.28	39.	0.78	110.	1.13	60.	0.63	89.	1.50	212.
2.25	1.00	0.05	7.	0.14	20.	0.13	18.	0.36	50.	0.54	33.	0.33	47.	0.71	101.
2.25	1.25	0.07	10.	0.20	29.	0.19	26.	0.52	73.	0.78	47.	0.47	66.	1.02	145.
2.25	1.50	0.10	14.	0.27	38.	0.25	35.	0.69	97.	1.04	61.	0.61	86.	1.35	190.
2.25	1.75	0.12	17.	0.34	48.	0.31	43.	0.86	121.	1.28	76.	0.75	106.	1.67	236.
2.50	1.00	0.05	8.	0.15	22.	0.16	23.	0.40	57.	0.61	40.	0.38	54.	0.78	111.
2.50	1.25	0.08	11.	0.22	31.	0.23	32.	0.58	82.	0.87	57.	0.54	77.	1.12	159.
2.50	1.50	0.11	15.	0.29	42.	0.30	43.	0.77	109.	1.15	74.	0.70	99.	1.48	209.
2.50	1.75	0.13	19.	0.37	52.	0.38	53.	0.96	136.	1.43	91.	0.86	122.	1.82	258.
2.75	1.00	0.06	8.	0.16	23.	0.20	29.	0.46	65.	0.67	47.	0.43	61.	0.85	120.
2.75	1.25	0.08	12.	0.24	34.	0.29	41.	0.66	93.	0.96	66.	0.61	86.	1.22	172.
2.75	1.50	0.11	16.	0.32	45.	0.38	54.	0.87	123.	1.26	86.	0.79	112.	1.60	226.
2.75	1.75	0.14	20.	0.40	56.	0.47	66.	1.08	153.	1.56	105.	0.97	137.	1.97	279.
3.00	1.00	0.06	9.	0.17	25.	0.25	35.	0.51	72.	0.72	53.	0.48	68.	0.91	129.
3.00	1.25	0.09	13.	0.25	36.	0.35	49.	0.73	103.	1.04	75.	0.67	95.	1.30	184.
3.00	1.50	0.12	17.	0.34	48.	0.45	64.	0.96	136.	1.36	97.	0.87	123.	1.71	241.
3.00	1.75	0.15	21.	0.42	57.	0.56	77.	1.17	168.	1.68	118.	1.07	151.	2.11	298.

ORIENTATIONS: 45.0 & 135.0 & 225.0 & 315.0
 BEDROOM WINDOW ON SIDE WALL-GROUND FLOOR
 OBST.HIGHT 7.50 POINT DIST. 2.50

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1. M			INTER-HOUSE DIST. = 2. M			INTER-HOUSE DIST. = 3. M			INTER-HOUSE DIST. = 4. M				
		SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ		
0.50	1.00	0.02	3.	0.03	5.	0.09	13.	0.05	7.	0.14	21.	0.05	8.	0.15	22.
0.50	1.25	0.03	4.	0.05	7.	0.13	19.	0.07	11.	0.21	30.	0.08	12.	0.22	32.
0.50	1.50	0.03	5.	0.06	9.	0.17	25.	0.10	14.	0.28	40.	0.11	15.	0.29	43.
0.50	1.75	0.04	6.	0.08	11.	0.21	31.	0.12	18.	0.34	50.	0.13	19.	0.37	53.
0.75	1.00	0.03	4.	0.05	7.	0.13	19.	0.08	11.	0.21	31.	0.08	12.	0.23	33.
0.75	1.25	0.04	6.	0.07	10.	0.19	28.	0.11	16.	0.31	45.	0.12	17.	0.33	48.
0.75	1.50	0.05	8.	0.09	13.	0.25	37.	0.15	21.	0.41	60.	0.16	23.	0.44	64.
0.75	1.75	0.06	7.	0.11	16.	0.31	46.	0.18	26.	0.51	74.	0.19	28.	0.55	79.
1.00	1.00	0.04	5.	0.06	9.	0.17	25.	0.10	15.	0.28	41.	0.11	16.	0.30	44.
1.00	1.25	0.05	8.	0.09	13.	0.25	36.	0.15	21.	0.41	59.	0.16	23.	0.44	63.
1.00	1.50	0.07	10.	0.12	17.	0.33	48.	0.19	28.	0.54	79.	0.21	30.	0.58	84.
1.00	1.75	0.09	12.	0.15	21.	0.41	60.	0.24	35.	0.67	98.	0.26	37.	0.72	105.
1.25	1.00	0.04	6.	0.08	11.	0.21	31.	0.12	18.	0.35	50.	0.13	19.	0.37	54.
1.25	1.25	0.06	9.	0.11	16.	0.31	45.	0.18	26.	0.50	73.	0.19	28.	0.54	78.
1.25	1.50	0.08	12.	0.15	21.	0.41	60.	0.24	35.	0.67	97.	0.26	37.	0.71	104.
1.25	1.75	0.11	15.	0.18	27.	0.51	74.	0.30	43.	0.83	121.	0.32	46.	0.89	129.
1.50	1.00	0.05	8.	0.09	13.	0.25	37.	0.15	21.	0.41	60.	0.16	23.	0.44	64.
1.50	1.25	0.08	11.	0.13	19.	0.37	53.	0.21	31.	0.60	87.	0.23	33.	0.64	93.
1.50	1.50	0.10	15.	0.17	25.	0.49	71.	0.28	41.	0.79	115.	0.30	44.	0.85	123.
1.50	1.75	0.12	18.	0.22	31.	0.61	88.	0.35	51.	0.98	143.	0.38	55.	1.05	153.
1.75	1.00	0.06	9.	0.10	15.	0.29	42.	0.17	24.	0.47	68.	0.20	29.	0.51	74.
1.75	1.25	0.09	13.	0.15	22.	0.42	61.	0.24	35.	0.68	99.	0.29	41.	0.74	108.
1.75	1.50	0.12	17.	0.20	29.	0.56	81.	0.32	47.	0.91	132.	0.38	55.	0.98	142.
1.75	1.75	0.14	21.	0.25	36.	0.69	101.	0.40	59.	1.13	164.	0.47	68.	1.22	177.
2.00	1.00	0.07	10.	0.12	17.	0.32	47.	0.20	29.	0.53	77.	0.26	37.	0.59	86.
2.00	1.25	0.10	14.	0.17	24.	0.47	68.	0.29	42.	0.77	112.	0.37	53.	0.85	124.
2.00	1.50	0.13	19.	0.22	32.	0.63	91.	0.38	55.	1.02	149.	0.48	70.	1.12	163.
2.00	1.75	0.16	23.	0.28	40.	0.78	113.	0.47	69.	1.28	185.	0.59	86.	1.39	202.
2.25	1.00	0.07	11.	0.13	18.	0.36	52.	0.25	37.	0.60	88.	0.31	45.	0.66	96.
2.25	1.25	0.11	16.	0.19	27.	0.52	75.	0.36	53.	0.87	127.	0.44	64.	0.95	139.
2.25	1.50	0.14	21.	0.25	36.	0.69	100.	0.48	69.	1.15	168.	0.58	84.	1.26	182.
2.25	1.75	0.18	26.	0.31	45.	0.86	125.	0.59	86.	1.43	208.	0.71	103.	1.55	226.
2.50	1.00	0.08	12.	0.16	23.	0.40	58.	0.31	44.	0.67	97.	0.36	53.	0.73	106.
2.50	1.25	0.12	17.	0.23	33.	0.58	85.	0.43	63.	0.97	140.	0.52	75.	1.05	153.
2.50	1.50	0.15	22.	0.30	44.	0.77	112.	0.57	82.	1.28	185.	0.67	97.	1.38	200.
2.50	1.75	0.19	28.	0.38	54.	0.96	140.	0.70	101.	1.58	229.	0.82	119.	1.71	248.
2.75	1.00	0.09	12.	0.20	30.	0.46	66.	0.35	51.	0.73	107.	0.41	60.	0.80	116.
2.75	1.25	0.12	18.	0.29	42.	0.66	95.	0.50	73.	1.05	153.	0.58	84.	1.14	166.
2.75	1.50	0.17	24.	0.38	55.	0.87	126.	0.65	94.	1.39	202.	0.75	109.	1.50	217.
2.75	1.75	0.21	30.	0.47	68.	1.08	157.	0.80	116.	1.72	250.	0.92	134.	1.85	268.
3.00	1.00	0.09	13.	0.25	36.	0.51	73.	0.40	58.	0.79	115.	0.46	66.	0.86	124.
3.00	1.25	0.13	19.	0.35	50.	0.73	106.	0.56	81.	1.14	165.	0.64	93.	1.22	178.
3.00	1.50	0.18	26.	0.45	66.	0.96	139.	0.73	106.	1.49	217.	0.83	121.	1.60	233.
3.00	1.75	0.22	32.	0.56	81.	1.19	172.	0.89	130.	1.85	268.	1.02	148.	1.98	287.

ORIENTATIONS: 67.5 & 112.5 & 247.5 & 292.5

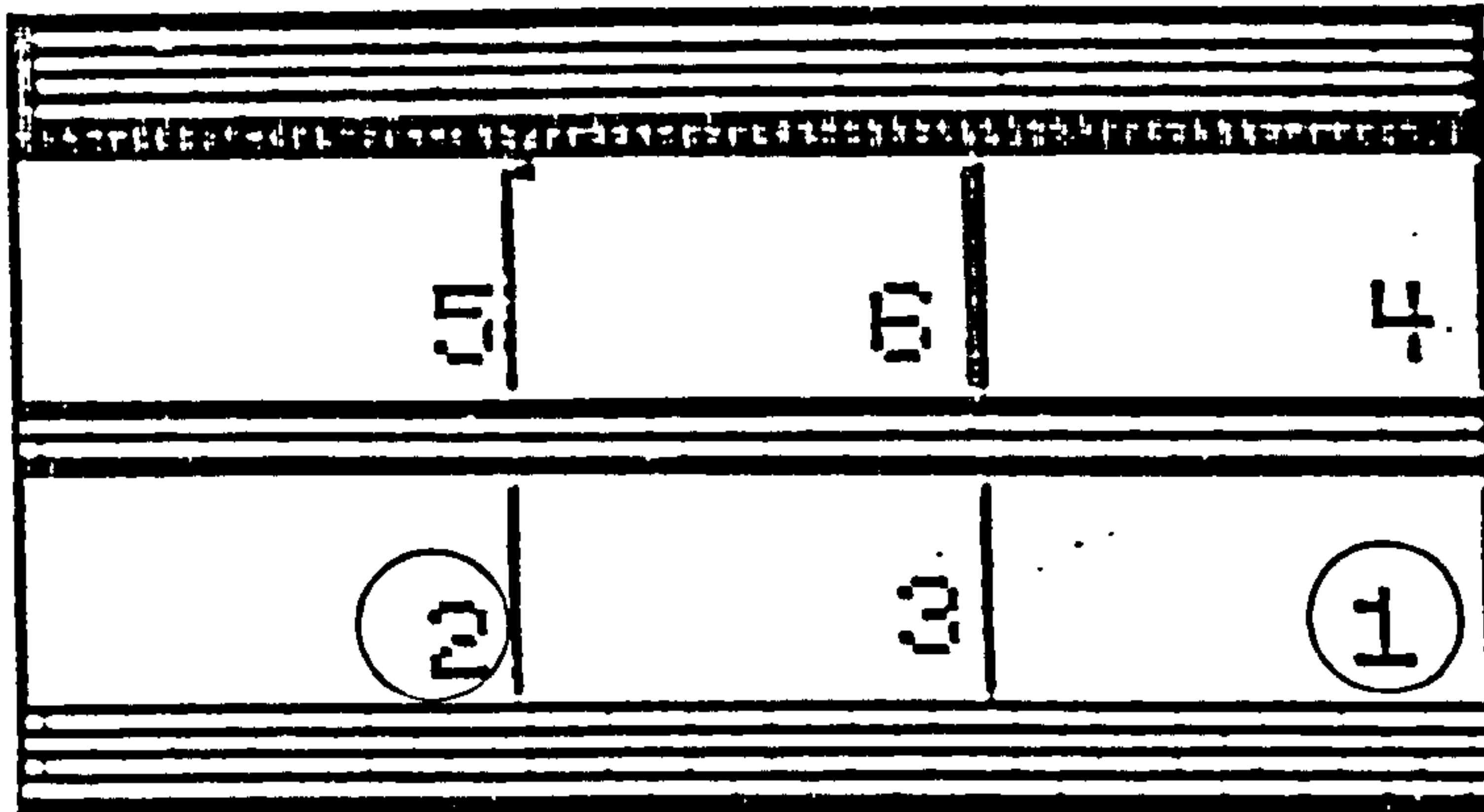
BEDROOM WINDOW ON SIDE WALL-GROUND FLOOR
OBST.HIGHT 7.50 POINT DIST. 2.50

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ				
0.50	1.00	0.02	4.	0.07	10.	0.04	6.	0.10	16.	0.05	8.	0.14	22.	0.07	11.	0.20	30.
0.50	1.25	0.03	5.	0.10	15.	0.05	8.	0.15	23.	0.07	11.	0.21	31.	0.10	15.	0.28	43.
0.50	1.50	0.05	7.	0.13	20.	0.07	11.	0.20	30.	0.10	15.	0.28	42.	0.13	20.	0.38	57.
0.50	1.75	0.06	9.	0.16	24.	0.09	13.	0.25	38.	0.12	18.	0.34	52.	0.17	25.	0.47	71.
0.75	1.00	0.04	5.	0.10	15.	0.06	8.	0.16	24.	0.08	12.	0.21	32.	0.10	16.	0.29	44.
0.75	1.25	0.05	8.	0.15	22.	0.08	12.	0.23	34.	0.11	17.	0.31	47.	0.15	23.	0.42	64.
0.75	1.50	0.07	10.	0.19	29.	0.11	16.	0.30	45.	0.15	22.	0.41	62.	0.20	30.	0.56	85.
0.75	1.75	0.09	13.	0.24	36.	0.13	20.	0.37	56.	0.18	28.	0.51	77.	0.25	38.	0.70	105.
1.00	1.00	0.05	7.	0.13	20.	0.07	11.	0.21	31.	0.10	15.	0.28	43.	0.14	21.	0.38	58.
1.00	1.25	0.07	10.	0.17	27.	0.11	16.	0.30	45.	0.15	22.	0.41	62.	0.20	30.	0.56	84.
1.00	1.50	0.09	14.	0.25	38.	0.14	21.	0.39	60.	0.19	29.	0.54	82.	0.26	40.	0.74	112.
1.00	1.75	0.11	17.	0.32	48.	0.18	27.	0.49	74.	0.24	36.	0.67	102.	0.33	50.	0.92	139.
1.25	1.00	0.06	9.	0.16	25.	0.09	14.	0.25	38.	0.12	19.	0.35	53.	0.17	26.	0.47	72.
1.25	1.25	0.08	13.	0.24	36.	0.13	20.	0.37	56.	0.18	27.	0.50	76.	0.25	37.	0.69	104.
1.25	1.50	0.11	17.	0.31	47.	0.17	26.	0.49	74.	0.24	36.	0.67	101.	0.33	49.	0.91	138.
1.25	1.75	0.14	21.	0.39	59.	0.22	33.	0.61	92.	0.30	45.	0.83	126.	0.41	61.	1.14	172.
1.50	1.00	0.07	10.	0.19	29.	0.11	16.	0.30	45.	0.15	22.	0.41	62.	0.20	30.	0.56	85.
1.50	1.25	0.10	15.	0.28	42.	0.16	23.	0.43	66.	0.21	32.	0.60	90.	0.29	44.	0.81	123.
1.50	1.50	0.13	20.	0.37	56.	0.21	31.	0.58	87.	0.28	43.	0.79	120.	0.39	58.	1.08	163.
1.50	1.75	0.16	25.	0.46	70.	0.26	39.	0.72	108.	0.35	53.	0.98	149.	0.48	73.	1.34	203.
1.75	1.00	0.08	12.	0.22	33.	0.12	19.	0.34	52.	0.17	25.	0.47	71.	0.25	37.	0.65	98.
1.75	1.25	0.11	17.	0.32	49.	0.18	27.	0.50	75.	0.24	37.	0.68	103.	0.36	54.	0.94	142.
1.75	1.50	0.15	23.	0.43	64.	0.24	36.	0.66	100.	0.32	49.	0.91	137.	0.47	71.	1.24	188.
1.75	1.75	0.19	29.	0.53	80.	0.29	44.	0.82	124.	0.40	61.	1.13	171.	0.58	88.	1.54	234.
2.00	1.00	0.09	13.	0.25	37.	0.14	21.	0.38	58.	0.20	30.	0.53	81.	0.31	47.	0.73	111.
2.00	1.25	0.13	19.	0.36	54.	0.20	30.	0.56	84.	0.29	44.	0.77	117.	0.44	67.	1.06	160.
2.00	1.50	0.17	26.	0.48	72.	0.26	40.	0.74	112.	0.38	58.	1.02	155.	0.58	88.	1.40	212.
2.00	1.75	0.21	32.	0.59	90.	0.33	50.	0.92	140.	0.47	72.	1.28	193.	0.71	108.	1.74	263.
2.25	1.00	0.10	15.	0.27	41.	0.15	23.	0.42	64.	0.25	38.	0.60	91.	0.37	55.	0.81	123.
2.25	1.25	0.14	21.	0.40	60.	0.22	33.	0.61	93.	0.36	55.	0.87	132.	0.52	79.	1.17	177.
2.25	1.50	0.19	28.	0.53	80.	0.29	44.	0.82	124.	0.48	72.	1.15	175.	0.68	103.	1.55	234.
2.25	1.75	0.23	35.	0.66	99.	0.36	55.	1.02	154.	0.59	89.	1.43	217.	0.84	127.	1.92	290.
2.50	1.00	0.11	16.	0.30	45.	0.18	28.	0.47	71.	0.30	46.	0.67	101.	0.42	63.	0.89	135.
2.50	1.25	0.15	23.	0.43	65.	0.27	40.	0.68	104.	0.43	66.	0.97	146.	0.60	90.	1.28	194.
2.50	1.50	0.20	31.	0.57	86.	0.35	53.	0.91	137.	0.57	86.	1.27	193.	0.78	118.	1.68	255.
2.50	1.75	0.25	39.	0.71	108.	0.44	66.	1.13	171.	0.70	106.	1.58	239.	0.96	145.	2.09	316.
2.75	1.00	0.11	17.	0.32	48.	0.23	35.	0.53	80.	0.35	53.	0.73	111.	0.47	71.	0.96	145.
2.75	1.25	0.16	25.	0.46	70.	0.33	50.	0.76	115.	0.50	75.	1.05	159.	0.67	101.	1.38	209.
2.75	1.50	0.22	33.	0.61	93.	0.43	65.	1.01	153.	0.65	98.	1.39	210.	0.87	131.	1.81	274.
2.75	1.75	0.27	41.	0.77	116.	0.53	80.	1.25	190.	0.80	121.	1.72	260.	1.06	161.	2.25	340.
3.00	1.00	0.12	18.	0.34	51.	0.27	41.	0.58	88.	0.39	60.	0.79	119.	0.52	78.	1.02	155.
3.00	1.25	0.18	27.	0.49	74.	0.38	58.	0.83	126.	0.56	85.	1.13	171.	0.73	110.	1.47	222.
3.00	1.50	0.23	35.	0.65	99.	0.50	76.	1.10	167.	0.73	110.	1.49	226.	0.95	144.	1.93	292.
3.00	1.75	0.29	44.	0.82	123.	0.62	94.	1.37	207.	0.89	135.	1.85	279.	1.16	176.	2.39	362.

ORIENTATIONS: EAST & WEST

BEDROOM WINDOW ON SIDE WALL-GROUND FLOOR
OBST.HIGHT 7.50 POINT DIST. 2.50

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST.= 1.M			INTER-HOUSE DIST.= 2.M			INTER-HOUSE DIST.= 3.M			INTER-HOUSE DIST.= 4.M				
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FAZ		
0.50	1.00	0.03	4.	0.08	12.	0.12	6.	0.06	9.	0.16	24.	0.07	11.	0.20	30.
0.50	1.25	0.04	6.	0.12	18.	0.17	9.	0.08	12.	0.23	35.	0.10	16.	0.28	43.
0.50	1.50	0.06	8.	0.15	24.	0.23	12.	0.11	16.	0.30	46.	0.13	21.	0.38	57.
0.50	1.75	0.07	10.	0.19	29.	0.28	15.	0.13	20.	0.37	57.	0.17	26.	0.47	71.
0.75	1.00	0.04	7.	0.12	18.	0.18	10.	0.08	13.	0.23	36.	0.10	16.	0.29	45.
0.75	1.25	0.06	9.	0.17	27.	0.25	14.	0.12	18.	0.34	52.	0.15	23.	0.42	65.
0.75	1.50	0.08	13.	0.23	35.	0.34	18.	0.16	24.	0.45	68.	0.20	31.	0.56	86.
0.75	1.75	0.10	16.	0.29	44.	0.42	23.	0.20	30.	0.56	85.	0.25	38.	0.70	106.
1.00	1.00	0.06	9.	0.16	24.	0.23	13.	0.08	13.	0.31	47.	0.14	21.	0.38	59.
1.00	1.25	0.08	13.	0.23	35.	0.34	18.	0.12	18.	0.45	68.	0.20	30.	0.56	85.
1.00	1.50	0.11	17.	0.30	46.	0.44	24.	0.21	32.	0.59	90.	0.26	40.	0.74	113.
1.00	1.75	0.13	21.	0.38	58.	0.55	30.	0.26	40.	0.73	112.	0.33	50.	0.92	141.
1.25	1.00	0.07	11.	0.19	30.	0.28	16.	0.14	21.	0.38	58.	0.17	26.	0.47	73.
1.25	1.25	0.10	15.	0.28	43.	0.41	23.	0.20	30.	0.55	84.	0.25	38.	0.69	105.
1.25	1.50	0.13	20.	0.37	57.	0.55	30.	0.26	40.	0.73	112.	0.33	50.	0.91	140.
1.25	1.75	0.17	25.	0.47	71.	0.68	44.	0.32	50.	0.91	139.	0.41	62.	1.14	174.
1.50	1.00	0.08	13.	0.23	35.	0.34	18.	0.16	24.	0.45	69.	0.20	31.	0.56	86.
1.50	1.25	0.12	18.	0.33	51.	0.49	27.	0.23	36.	0.65	100.	0.29	44.	0.81	124.
1.50	1.50	0.16	24.	0.44	68.	0.65	35.	0.31	47.	0.86	132.	0.39	59.	1.08	165.
1.50	1.75	0.20	30.	0.55	84.	0.81	44.	0.38	59.	1.07	164.	0.48	73.	1.34	205.
1.75	1.00	0.07	14.	0.26	40.	0.37	21.	0.18	28.	0.51	77.	0.25	38.	0.65	99.
1.75	1.25	0.14	21.	0.38	59.	0.56	31.	0.27	41.	0.75	114.	0.36	54.	0.94	143.
1.75	1.50	0.18	28.	0.51	78.	0.74	41.	0.35	54.	0.99	151.	0.47	72.	1.24	190.
1.75	1.75	0.23	35.	0.63	97.	0.93	51.	0.44	67.	1.23	188.	0.58	89.	1.54	236.
2.00	1.00	0.11	16.	0.30	45.	0.43	24.	0.22	33.	0.58	89.	0.31	47.	0.73	112.
2.00	1.25	0.15	23.	0.43	66.	0.63	34.	0.31	48.	0.84	129.	0.44	67.	1.06	162.
2.00	1.50	0.20	31.	0.57	87.	0.83	46.	0.41	63.	1.12	171.	0.58	87.	1.40	214.
2.00	1.75	0.25	39.	0.71	109.	1.04	57.	0.51	79.	1.39	213.	0.72	109.	1.74	266.
2.25	1.00	0.12	18.	0.32	50.	0.48	26.	0.27	41.	0.65	100.	0.37	56.	0.81	124.
2.25	1.25	0.17	26.	0.47	72.	0.69	38.	0.39	59.	0.94	145.	0.52	80.	1.17	179.
2.25	1.50	0.22	34.	0.63	96.	0.92	50.	0.51	78.	1.25	191.	0.68	104.	1.55	237.
2.25	1.75	0.28	43.	0.78	120.	1.15	63.	0.63	97.	1.55	238.	0.84	128.	1.92	293.
2.50	1.00	0.13	19.	0.35	54.	0.53	31.	0.32	49.	0.72	110.	0.42	64.	0.89	136.
2.50	1.25	0.18	28.	0.51	78.	0.77	45.	0.46	70.	1.04	159.	0.60	91.	1.28	196.
2.50	1.50	0.24	37.	0.68	104.	1.02	60.	0.60	92.	1.37	210.	0.78	119.	1.68	258.
2.50	1.75	0.30	46.	0.85	130.	1.27	74.	0.74	114.	1.71	261.	0.96	146.	2.09	319.
2.75	1.00	0.14	21.	0.38	58.	0.59	38.	0.37	57.	0.79	120.	0.47	72.	0.96	147.
2.75	1.25	0.20	30.	0.55	84.	0.85	55.	0.53	80.	1.13	173.	0.66	102.	1.38	211.
2.75	1.50	0.26	40.	0.73	112.	1.12	72.	0.69	105.	1.49	228.	0.87	132.	1.81	277.
2.75	1.75	0.33	50.	0.91	140.	1.39	89.	0.85	129.	1.85	283.	1.06	163.	2.25	344.
3.00	1.00	0.14	22.	0.40	61.	0.64	45.	0.41	63.	0.84	129.	0.52	79.	1.02	157.
3.00	1.25	0.21	32.	0.59	90.	0.92	64.	0.59	90.	1.21	186.	0.73	112.	1.47	225.
3.00	1.50	0.28	43.	0.78	119.	1.22	83.	0.77	117.	1.60	245.	0.95	145.	1.93	296.
3.00	1.75	0.35	53.	0.97	149.	1.51	103.	0.94	144.	1.98	303.	1.16	178.	2.39	366.



Key diagram showing the location of window data

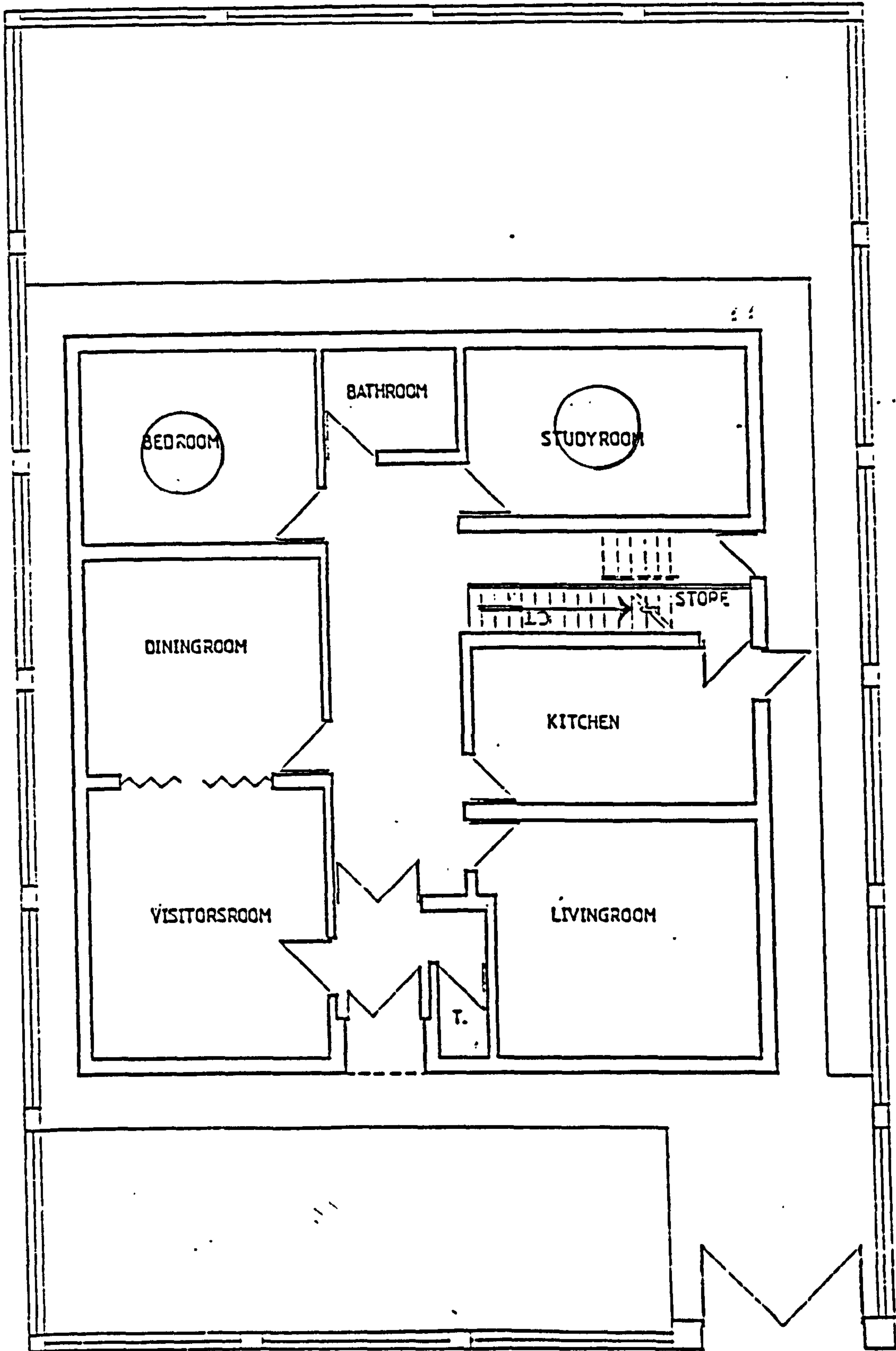


Back Wall

2 Storey

Interhouse Distance

4, 6, 8 and 12m.



ARCHITECTURAL FLOOR PLAN

ORIENTATIONS: NORTH & SOUTH

BEDROOM -1- WINDOW ON BACK WALL -GROUND FLOOR-
 OBST.HIGHT 7.50 POINT DIST. 2.5000

W I N D O W WIDTH HEIGHT	INTER-HOUSE DIST. = 4.M			INTER-HOUSE DIST. = 6.M			INTER-HOUSE DIST. = 8.M			INTER-HOUSE DIST. = 12.M			
	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	
0.50	0.07	9.	0.20	0.10	12.	0.27	0.12	16.	0.34	0.16	21.	0.45	57.
0.50	0.10	13.	0.28	0.14	18.	0.39	0.18	22.	0.49	0.24	31.	0.61	78.
0.50	0.13	17.	0.38	0.19	24.	0.52	0.23	30.	0.65	0.33	43.	0.70	90.
0.50	0.17	21.	0.47	0.23	30.	0.65	0.30	39.	0.77	0.42	54.	0.79	101.
0.75	0.10	13.	0.29	0.14	18.	0.40	0.18	23.	0.50	0.24	31.	0.67	85.
0.75	0.15	19.	0.42	0.21	27.	0.59	0.26	33.	0.73	0.36	46.	0.91	117.
0.75	0.20	26.	0.56	0.28	36.	0.77	0.35	44.	0.97	0.50	64.	1.05	135.
0.75	0.25	32.	0.70	0.34	44.	0.96	0.45	58.	1.14	0.62	80.	1.18	151.
1.00	0.14	18.	0.38	0.19	24.	0.53	0.24	30.	0.66	0.31	40.	0.88	113.
1.00	0.20	26.	0.56	0.28	35.	0.77	0.34	44.	0.96	0.47	60.	1.20	154.
1.00	0.26	34.	0.74	0.37	47.	1.02	0.46	59.	1.28	0.65	84.	1.38	178.
1.00	0.33	42.	0.92	0.45	58.	1.27	0.60	77.	1.51	0.83	106.	1.56	200.
1.25	0.17	22.	0.47	0.23	30.	0.66	0.29	38.	0.82	0.39	50.	1.08	139.
1.25	0.25	32.	0.69	0.34	44.	0.95	0.42	55.	1.19	0.58	75.	1.48	190.
1.25	0.33	42.	0.91	0.43	58.	1.26	0.56	72.	1.58	0.81	104.	1.71	220.
1.25	0.41	52.	1.14	0.56	72.	1.57	0.74	95.	1.86	1.03	132.	1.93	247.
1.50	0.20	26.	0.56	0.28	36.	0.78	0.35	44.	0.97	0.46	59.	1.28	164.
1.50	0.29	37.	0.81	0.40	52.	1.13	0.50	64.	1.41	0.69	88.	1.75	225.
1.50	0.39	49.	1.08	0.53	68.	1.49	0.67	85.	1.86	0.96	123.	2.02	260.
1.50	0.48	62.	1.34	0.66	85.	1.86	0.88	113.	2.21	1.22	156.	2.28	293.
1.75	0.23	29.	0.64	0.32	41.	0.89	0.40	51.	1.11	0.52	67.	1.47	188.
1.75	0.33	43.	0.93	0.46	59.	1.29	0.58	74.	1.61	0.79	101.	2.01	258.
1.75	0.44	57.	1.24	0.61	79.	1.71	0.76	98.	2.14	1.11	142.	2.33	299.
1.75	0.55	71.	1.54	0.76	98.	2.13	1.01	130.	2.53	1.40	180.	2.62	337.
2.00	0.26	33.	0.72	0.36	46.	1.00	0.44	57.	1.24	0.59	75.	1.64	211.
2.00	0.37	48.	1.05	0.52	66.	1.45	0.65	83.	1.81	0.89	114.	2.25	289.
2.00	0.50	64.	1.39	0.69	88.	1.92	0.86	110.	2.40	1.25	160.	2.61	335.
2.00	0.62	79.	1.73	0.85	110.	2.39	1.14	146.	2.84	1.58	203.	2.95	378.
2.25	0.28	36.	0.79	0.39	50.	1.10	0.49	63.	1.37	0.65	83.	1.81	232.
2.25	0.41	53.	1.15	0.57	73.	1.59	0.71	91.	1.99	0.98	125.	2.48	318.
2.25	0.55	70.	1.53	0.76	97.	2.12	0.94	121.	2.64	1.38	177.	2.88	370.
2.25	0.68	87.	1.91	0.94	121.	2.64	1.26	161.	3.14	1.75	225.	3.26	418.
2.50	0.31	39.	0.86	0.42	54.	1.19	0.53	68.	1.48	0.70	90.	1.96	252.
2.50	0.45	57.	1.25	0.62	79.	1.73	0.77	99.	2.16	1.06	136.	2.69	346.
2.50	0.59	76.	1.66	0.82	105.	2.30	1.03	132.	2.87	1.50	193.	3.13	402.
2.50	0.74	93.	2.07	1.02	132.	2.87	1.37	176.	3.41	1.92	246.	3.55	456.
2.75	0.33	42.	0.92	0.46	58.	1.27	0.57	73.	1.59	0.75	96.	2.10	270.
2.75	0.48	62.	1.34	0.66	85.	1.86	0.83	106.	2.32	1.14	147.	2.89	371.
2.75	0.64	82.	1.78	0.88	113.	2.47	1.10	141.	3.08	1.62	208.	3.37	433.
2.75	0.80	102.	2.23	1.10	141.	3.08	1.47	189.	3.67	2.07	266.	3.82	491.
3.00	0.35	45.	0.98	0.48	62.	1.35	0.60	78.	1.69	0.80	102.	2.23	287.
3.00	0.51	65.	1.43	0.71	91.	1.97	0.88	113.	2.46	1.22	156.	3.08	395.
3.00	0.68	87.	1.90	0.94	121.	2.63	1.17	150.	3.28	1.73	223.	3.60	462.
3.00	0.85	109.	2.37	1.17	151.	3.28	1.57	202.	3.91	2.22	285.	4.08	524.

T A B L E :

BEDROOM -1- WINDOW ON BACK WALL -GROUND FLOOR-
OBST.HIGHT 7.50 POINT DIST. 2.5000

W I N D O W WIDTH HEIGHT	INTER-HOUSE DIST. = 4.M			INTER-HOUSE DIST. = 6.M			INTER-HOUSE DIST. = 8.M			INTER-HOUSE DIST. = 12.M							
	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ					
0.50	1.00	10.	0.07	0.20	28.	0.11	16.	0.31	44.	0.11	15.	0.30	43.	0.17	25.	0.49	69.
0.50	1.25	14.	0.10	0.28	40.	0.16	23.	0.45	64.	0.16	22.	0.44	62.	0.26	36.	0.66	93.
0.50	1.50	19.	0.13	0.38	53.	0.21	30.	0.60	84.	0.21	29.	0.58	82.	0.35	49.	0.75	107.
0.50	1.75	24.	0.17	0.47	66.	0.26	37.	0.74	105.	0.28	39.	0.69	97.	0.44	62.	0.84	119.
0.75	1.00	15.	0.10	0.29	41.	0.16	23.	0.46	65.	0.16	23.	0.45	63.	0.26	37.	0.72	102.
0.75	1.25	21.	0.15	0.42	60.	0.24	34.	0.67	95.	0.23	33.	0.65	92.	0.38	54.	0.98	139.
0.75	1.50	28.	0.20	0.56	79.	0.32	45.	0.89	125.	0.31	43.	0.86	122.	0.52	74.	1.12	159.
0.75	1.75	35.	0.25	0.70	98.	0.39	56.	1.10	156.	0.41	59.	1.03	145.	0.65	92.	1.25	177.
1.00	1.00	19.	0.14	0.38	54.	0.22	31.	0.61	86.	0.21	30.	0.59	84.	0.34	48.	0.96	135.
1.00	1.25	28.	0.20	0.56	77.	0.32	45.	0.88	123.	0.31	43.	0.86	121.	0.51	71.	1.30	184.
1.00	1.50	37.	0.26	0.74	104.	0.42	59.	1.17	165.	0.41	57.	1.14	161.	0.69	98.	1.48	210.
1.00	1.75	46.	0.33	0.92	130.	0.52	73.	1.46	206.	0.55	77.	1.35	191.	0.86	122.	1.66	234.
1.25	1.00	24.	0.17	0.47	67.	0.27	38.	0.75	106.	0.26	37.	0.73	103.	0.42	59.	1.18	167.
1.25	1.25	35.	0.25	0.69	97.	0.39	55.	1.09	154.	0.38	53.	1.06	150.	0.62	88.	1.60	227.
1.25	1.50	46.	0.33	0.91	129.	0.52	73.	1.45	204.	0.50	71.	1.40	198.	0.85	121.	1.83	259.
1.25	1.75	57.	0.41	1.14	160.	0.64	91.	1.80	254.	0.68	96.	1.67	237.	1.07	151.	2.05	290.
1.50	1.00	28.	0.20	0.56	79.	0.32	45.	0.89	125.	0.31	43.	0.86	122.	0.50	70.	1.39	197.
1.50	1.25	41.	0.29	0.81	115.	0.46	65.	1.27	182.	0.45	63.	1.25	177.	0.74	104.	1.90	268.
1.50	1.50	54.	0.39	1.08	153.	0.61	86.	1.71	242.	0.59	84.	1.66	235.	1.01	143.	2.17	306.
1.50	1.75	68.	0.48	1.34	190.	0.76	107.	2.13	301.	0.80	113.	1.98	280.	1.27	180.	2.43	343.
1.75	1.00	32.	0.23	0.64	91.	0.36	51.	1.02	144.	0.35	50.	0.99	140.	0.57	80.	1.59	225.
1.75	1.25	47.	0.33	0.93	132.	0.53	75.	1.48	209.	0.51	72.	1.43	203.	0.85	120.	2.17	307.
1.75	1.50	62.	0.44	1.24	175.	0.70	99.	1.96	277.	0.68	96.	1.90	269.	1.16	164.	2.49	352.
1.75	1.75	78.	0.55	1.54	218.	0.87	123.	2.44	345.	0.92	130.	2.27	321.	1.46	207.	2.79	394.
2.00	1.00	36.	0.26	0.72	102.	0.41	57.	1.14	161.	0.39	56.	1.11	156.	0.64	90.	1.79	252.
2.00	1.25	53.	0.37	1.05	148.	0.59	84.	1.66	234.	0.57	81.	1.61	227.	0.95	134.	2.44	344.
2.00	1.50	70.	0.50	1.39	196.	0.79	111.	2.20	311.	0.76	108.	2.13	302.	1.31	185.	2.79	395.
2.00	1.75	87.	0.62	1.73	244.	0.98	138.	2.74	387.	1.04	146.	2.55	361.	1.65	233.	3.13	443.
2.25	1.00	40.	0.28	0.79	112.	0.45	63.	1.25	177.	0.43	61.	1.22	172.	0.70	99.	1.97	278.
2.25	1.25	58.	0.41	1.15	163.	0.65	92.	1.82	258.	0.63	89.	1.77	250.	1.05	148.	2.68	379.
2.25	1.50	77.	0.55	1.53	216.	0.87	122.	2.42	342.	0.84	119.	2.35	332.	1.45	204.	3.08	435.
2.25	1.75	96.	0.68	1.91	270.	1.08	152.	3.02	427.	1.14	162.	2.82	398.	1.83	258.	3.46	489.
2.50	1.00	43.	0.31	0.86	121.	0.49	69.	1.36	192.	0.47	67.	1.32	187.	0.76	108.	2.13	301.
2.50	1.25	63.	0.45	1.25	177.	0.71	100.	1.98	280.	0.69	97.	1.92	272.	1.14	161.	2.91	412.
2.50	1.50	84.	0.59	1.66	235.	0.94	133.	2.63	372.	0.91	129.	2.56	361.	1.58	223.	3.35	474.
2.50	1.75	105.	0.74	2.07	293.	1.17	166.	3.28	464.	1.25	176.	3.06	433.	1.99	282.	3.77	533.
2.75	1.00	46.	0.33	0.72	130.	0.52	74.	1.46	206.	0.51	71.	1.42	200.	0.82	115.	2.27	323.
2.75	1.25	68.	0.48	1.34	190.	0.76	107.	2.13	300.	0.74	104.	2.06	292.	1.22	173.	3.13	442.
2.75	1.50	90.	0.64	1.78	252.	1.01	143.	2.83	400.	0.98	139.	2.74	388.	1.70	240.	3.60	509.
2.75	1.75	113.	0.80	2.23	315.	1.26	178.	3.53	499.	1.34	190.	3.30	466.	2.15	304.	4.06	574.
3.00	1.00	49.	0.35	0.98	138.	0.55	78.	1.55	219.	0.54	76.	1.50	213.	0.87	123.	2.43	343.
3.00	1.25	72.	0.51	1.43	202.	0.81	114.	2.26	319.	0.78	111.	2.19	310.	1.30	184.	3.33	470.
3.00	1.50	96.	0.68	1.90	268.	1.07	152.	3.01	425.	1.04	147.	2.92	413.	1.81	256.	3.84	543.
3.00	1.75	120.	0.85	2.37	335.	1.34	190.	3.76	531.	1.43	202.	3.51	496.	2.30	326.	4.33	612.

BEDROOM -1- WINDOW ON BACK WALL -GROUND FLOOR-
OBST.HIGHT 7.50 POINT DIST. 2.5000

W I D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 4. M			INTER-HOUSE DIST. = 6. M			INTER-HOUSE DIST. = 8. M			INTER-HOUSE DIST. = 12. M						
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %				
0.50	1.00	0.08	12.	0.23	34.	0.11	16.	0.31	45.	0.15	21.	0.41	60.	0.19	27.	0.52	75.
0.50	1.25	0.12	18.	0.34	49.	0.16	23.	0.45	65.	0.21	31.	0.59	86.	0.27	40.	0.70	102.
0.50	1.50	0.16	23.	0.45	65.	0.21	31.	0.60	86.	0.28	41.	0.79	114.	0.37	53.	0.80	116.
0.50	1.75	0.20	29.	0.56	81.	0.26	38.	0.74	107.	0.36	52.	0.92	134.	0.45	66.	0.89	129.
0.75	1.00	0.12	18.	0.35	51.	0.16	24.	0.46	67.	0.22	32.	0.61	89.	0.28	40.	0.77	112.
0.75	1.25	0.18	26.	0.51	74.	0.24	35.	0.67	97.	0.32	46.	0.89	129.	0.41	59.	1.05	152.
0.75	1.50	0.24	35.	0.67	98.	0.32	46.	0.89	129.	0.42	61.	1.17	170.	0.55	79.	1.19	172.
0.75	1.75	0.30	43.	0.84	121.	0.39	57.	1.10	160.	0.54	78.	1.37	199.	0.68	98.	1.32	192.
1.00	1.00	0.16	24.	0.46	67.	0.22	32.	0.61	88.	0.29	42.	0.81	117.	0.36	53.	1.02	148.
1.00	1.25	0.24	35.	0.67	97.	0.32	46.	0.88	128.	0.42	61.	1.17	170.	0.54	78.	1.38	201.
1.00	1.50	0.32	46.	0.89	129.	0.42	61.	1.17	170.	0.55	80.	1.55	225.	0.72	105.	1.57	227.
1.00	1.75	0.39	57.	1.10	160.	0.52	75.	1.46	211.	0.71	103.	1.81	263.	0.90	130.	1.74	253.
1.25	1.00	0.20	30.	0.57	83.	0.27	39.	0.75	109.	0.35	52.	0.99	144.	0.45	65.	1.26	182.
1.25	1.25	0.30	43.	0.83	120.	0.37	57.	1.07	158.	0.52	73.	1.44	207.	0.66	96.	1.71	248.
1.25	1.50	0.39	57.	1.10	159.	0.52	75.	1.45	210.	0.68	99.	1.91	277.	0.89	129.	1.94	281.
1.25	1.75	0.49	71.	1.36	198.	0.64	93.	1.80	261.	0.88	128.	2.24	325.	1.11	161.	2.16	313.
1.50	1.00	0.24	35.	0.67	98.	0.32	46.	0.89	129.	0.42	61.	1.17	170.	0.53	77.	1.49	216.
1.50	1.25	0.35	51.	0.98	142.	0.46	67.	1.29	187.	0.61	88.	1.70	247.	0.78	113.	2.02	293.
1.50	1.50	0.46	67.	1.29	188.	0.61	89.	1.71	248.	0.81	117.	2.26	328.	1.06	153.	2.29	332.
1.50	1.75	0.58	84.	1.61	234.	0.76	110.	2.13	309.	1.04	151.	2.65	384.	1.32	191.	2.55	370.
1.75	1.00	0.28	40.	0.77	112.	0.36	53.	1.02	148.	0.48	70.	1.34	195.	0.61	88.	1.70	247.
1.75	1.25	0.40	58.	1.12	162.	0.53	77.	1.48	214.	0.70	101.	1.95	284.	0.90	130.	2.31	335.
1.75	1.50	0.53	77.	1.47	216.	0.70	102.	1.76	265.	0.93	134.	2.59	376.	1.21	176.	2.63	382.
1.75	1.75	0.66	96.	1.85	268.	0.87	127.	2.44	354.	1.20	173.	3.04	441.	1.52	220.	2.93	426.
2.00	1.00	0.31	45.	0.86	125.	0.41	59.	1.14	165.	0.54	78.	1.51	219.	0.68	99.	1.91	277.
2.00	1.25	0.45	65.	1.25	182.	0.59	86.	1.66	240.	0.78	114.	2.19	318.	1.01	146.	2.59	376.
2.00	1.50	0.59	86.	1.67	242.	0.79	114.	2.20	319.	1.04	151.	2.91	422.	1.37	198.	2.95	428.
2.00	1.75	0.74	108.	2.08	301.	0.98	142.	2.74	398.	1.34	195.	3.41	495.	1.71	248.	3.29	478.
2.25	1.00	0.34	49.	0.95	138.	0.45	65.	1.25	182.	0.59	86.	1.66	241.	0.75	109.	2.10	304.
2.25	1.25	0.49	72.	1.38	200.	0.65	95.	1.82	265.	0.86	125.	2.41	350.	1.11	161.	2.85	414.
2.25	1.50	0.66	95.	1.84	266.	0.87	126.	2.42	352.	1.14	166.	3.20	465.	1.51	219.	3.25	472.
2.25	1.75	0.82	119.	2.29	332.	1.08	157.	3.02	438.	1.48	215.	3.76	546.	1.89	274.	3.64	528.
2.50	1.00	0.37	53.	1.03	150.	0.49	70.	1.36	197.	0.64	93.	1.80	261.	0.81	118.	2.28	330.
2.50	1.25	0.54	78.	1.50	218.	0.71	103.	1.98	287.	0.93	136.	2.62	380.	1.21	175.	3.10	450.
2.50	1.50	0.71	103.	1.99	289.	0.94	136.	2.63	382.	1.24	180.	3.48	505.	1.64	239.	3.54	513.
2.50	1.75	0.89	129.	2.49	361.	1.17	170.	3.28	477.	1.61	234.	4.09	594.	2.06	300.	3.96	574.
2.75	1.00	0.39	57.	1.10	160.	0.52	76.	1.46	212.	0.69	100.	1.93	280.	0.87	127.	2.44	354.
2.75	1.25	0.57	83.	1.61	234.	0.76	110.	2.13	308.	1.00	146.	2.81	408.	1.30	188.	3.33	483.
2.75	1.50	0.76	111.	2.14	311.	1.01	147.	2.83	410.	1.34	194.	3.74	543.	1.77	257.	3.80	552.
2.75	1.75	0.96	139.	2.67	388.	1.26	183.	3.53	512.	1.74	252.	4.40	638.	2.23	323.	4.26	618.
3.00	1.00	0.42	61.	1.17	170.	0.55	80.	1.55	225.	0.73	106.	2.05	297.	0.93	134.	2.59	376.
3.00	1.25	0.61	87.	1.71	245.	0.81	117.	2.26	328.	1.07	153.	2.77	434.	1.38	200.	3.54	514.
3.00	1.50	0.81	118.	2.28	331.	1.07	156.	3.01	437.	1.42	206.	3.98	577.	1.89	274.	4.05	588.
3.00	1.75	1.02	148.	2.85	413.	1.34	195.	3.76	546.	1.85	269.	4.68	680.	2.38	346.	4.54	659.

ORIENTATIONS: 67.5 & 112.5 & 247.5 & 292.5

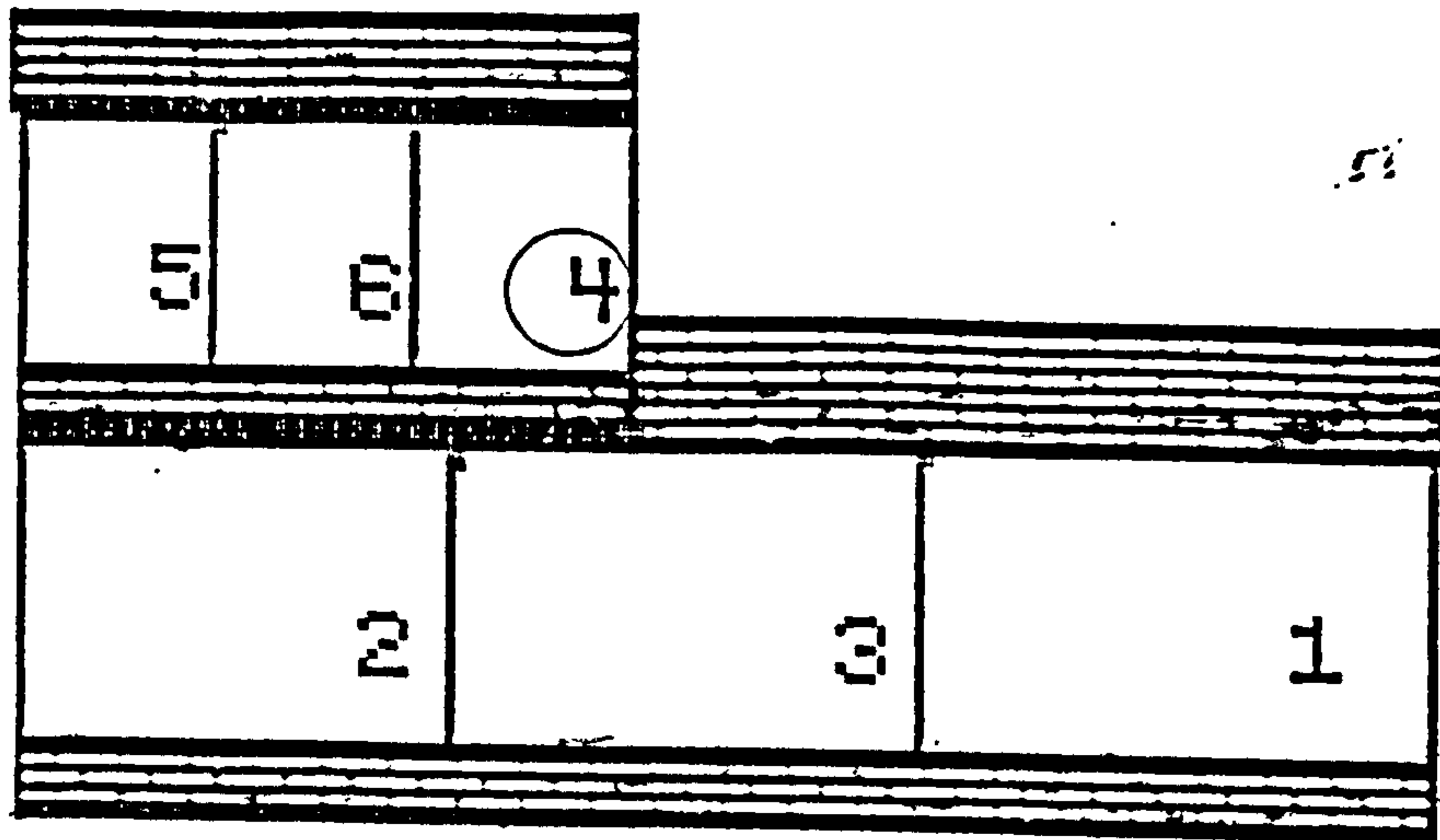
BEDROOM -1- WINDOW ON BACK WALL -GROUND FLOOR-
OBST.HIGHT 7.50 POINT DIST. 2.5000

W I N D O W		INTER-HOUSE DIST. = 4.M				INTER-HOUSE DIST. = 6.M				INTER-HOUSE DIST. = 8.M				INTER-HOUSE DIST. = 12.M			
WIDTH	HEIGHT	SKY+EXTERNAL REFLECTION	70%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION	70%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION	70%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION	70%WALLREFL.	LUX	FA %
0.50	1.00	0.10	14.	0.27	40.	0.12	19.	0.34	52.	0.15	22.	0.41	62.	0.20	31.	0.56	85.
0.50	1.25	0.14	21.	0.39	59.	0.18	27.	0.50	75.	0.21	32.	0.59	90.	0.29	44.	0.76	115.
0.50	1.50	0.18	28.	0.51	78.	0.24	36.	0.66	100.	0.28	43.	0.79	119.	0.39	59.	0.86	130.
0.50	1.75	0.23	34.	0.64	97.	0.29	44.	0.82	124.	0.36	55.	0.92	139.	0.48	72.	0.95	143.
0.75	1.00	0.14	22.	0.40	60.	0.18	28.	0.51	77.	0.22	33.	0.61	92.	0.30	45.	0.84	127.
0.75	1.25	0.21	31.	0.58	87.	0.26	40.	0.74	112.	0.32	48.	0.89	134.	0.44	66.	1.13	172.
0.75	1.50	0.27	41.	0.77	116.	0.35	53.	0.98	148.	0.42	63.	1.17	177.	0.58	88.	1.28	193.
0.75	1.75	0.34	51.	0.93	144.	0.44	66.	1.22	184.	0.54	82.	1.37	208.	0.71	108.	1.41	214.
1.00	1.00	0.19	28.	0.53	80.	0.24	36.	0.67	102.	0.29	44.	0.81	122.	0.40	60.	1.11	168.
1.00	1.25	0.27	41.	0.76	115.	0.35	53.	0.98	148.	0.42	63.	1.17	177.	0.58	87.	1.50	227.
1.00	1.50	0.36	55.	1.01	153.	0.46	70.	1.29	196.	0.55	84.	1.55	234.	0.76	116.	1.69	255.
1.00	1.75	0.45	68.	1.26	190.	0.57	87.	1.61	243.	0.71	108.	1.81	274.	0.95	143.	1.87	282.
1.25	1.00	0.23	35.	0.65	98.	0.30	45.	0.83	126.	0.35	54.	0.99	150.	0.49	74.	1.37	207.
1.25	1.25	0.34	51.	0.94	142.	0.43	65.	1.21	182.	0.52	78.	1.44	218.	0.71	108.	1.85	280.
1.25	1.50	0.45	67.	1.25	189.	0.57	86.	1.60	242.	0.68	103.	1.91	289.	0.95	143.	2.08	315.
1.25	1.75	0.55	84.	1.55	235.	0.71	107.	1.99	301.	0.88	133.	2.24	339.	1.17	177.	2.31	349.
1.50	1.00	0.27	41.	0.77	116.	0.35	53.	0.98	148.	0.42	63.	1.17	178.	0.58	87.	1.62	244.
1.50	1.25	0.40	60.	1.11	168.	0.51	77.	1.42	216.	0.61	92.	1.70	258.	0.84	127.	2.19	331.
1.50	1.50	0.53	80.	1.47	223.	0.67	102.	1.89	286.	0.81	122.	2.26	342.	1.12	169.	2.46	372.
1.50	1.75	0.66	99.	1.84	278.	0.84	127.	2.35	356.	1.04	158.	2.65	401.	1.39	210.	2.73	413.
1.75	1.00	0.31	47.	0.88	133.	0.40	61.	1.12	170.	0.48	73.	1.34	203.	0.66	100.	1.85	280.
1.75	1.25	0.46	69.	1.27	193.	0.58	88.	1.63	247.	0.70	106.	1.95	296.	0.97	146.	2.51	379.
1.75	1.50	0.60	71.	1.67	256.	0.77	117.	2.17	328.	0.93	140.	2.57	372.	1.27	195.	2.83	427.
1.75	1.75	0.75	114.	2.11	319.	0.96	146.	2.70	408.	1.20	181.	3.04	460.	1.59	241.	3.13	474.
2.00	1.00	0.35	53.	0.98	149.	0.45	68.	1.26	190.	0.54	81.	1.51	228.	0.74	112.	2.07	314.
2.00	1.25	0.51	77.	1.43	216.	0.65	99.	1.83	277.	0.78	118.	2.19	331.	1.08	164.	2.81	425.
2.00	1.50	0.68	102.	1.90	287.	0.87	131.	2.43	368.	1.04	157.	2.91	440.	1.44	219.	3.17	479.
2.00	1.75	0.84	128.	2.36	358.	1.08	164.	3.03	458.	1.35	204.	3.41	516.	1.79	271.	3.52	532.
2.25	1.00	0.39	58.	1.08	164.	0.49	75.	1.39	210.	0.59	90.	1.66	251.	0.81	123.	2.28	345.
2.25	1.25	0.56	85.	1.57	238.	0.72	109.	2.02	305.	0.86	130.	2.41	365.	1.19	181.	3.09	468.
2.25	1.50	0.75	113.	2.09	316.	0.96	145.	2.68	405.	1.14	173.	3.20	485.	1.60	241.	3.49	529.
2.25	1.75	0.93	141.	2.61	394.	1.19	180.	3.34	505.	1.49	225.	3.76	569.	1.98	300.	3.88	587.
2.50	1.00	0.42	63.	1.17	177.	0.54	81.	1.50	227.	0.64	97.	1.80	272.	0.88	134.	2.48	375.
2.50	1.25	0.61	92.	1.71	258.	0.78	118.	2.19	331.	0.93	141.	2.62	396.	1.30	196.	3.36	508.
2.50	1.50	0.81	123.	2.27	344.	1.04	157.	2.91	440.	1.24	188.	3.48	526.	1.74	263.	3.80	575.
2.50	1.75	1.01	153.	2.83	429.	1.30	196.	3.63	549.	1.62	245.	4.09	619.	2.16	327.	4.22	639.
2.75	1.00	0.45	68.	1.26	190.	0.58	87.	1.61	244.	0.67	104.	1.93	292.	0.95	143.	2.66	402.
2.75	1.25	0.65	99.	1.83	277.	0.84	127.	2.35	353.	1.00	152.	2.81	425.	1.39	211.	3.60	545.
2.75	1.50	0.87	132.	2.44	369.	1.12	169.	3.12	473.	1.34	202.	3.74	566.	1.87	283.	4.08	617.
2.75	1.75	1.09	165.	3.05	461.	1.39	211.	3.90	590.	1.74	263.	4.40	666.	2.33	353.	4.54	687.
3.00	1.00	0.48	72.	1.34	202.	0.61	93.	1.71	259.	0.73	111.	2.05	310.	1.01	152.	2.82	427.
3.00	1.25	0.70	105.	1.95	295.	0.89	135.	2.50	378.	1.07	161.	2.99	452.	1.48	224.	3.83	580.
3.00	1.50	0.93	140.	2.60	393.	1.19	180.	3.32	503.	1.42	215.	3.98	602.	1.99	302.	4.35	657.
3.00	1.75	1.16	175.	3.24	491.	1.48	224.	4.15	627.	1.85	281.	4.67	707.	2.47	377.	4.84	732.

ORIENTATIONS: EAST & WEST
 WINDOW ON BACK WALL -GROUND FLOOR-
 POINT DIST. 2.5000

BEDROOM -1-
 OBST. HIGHT 7.50

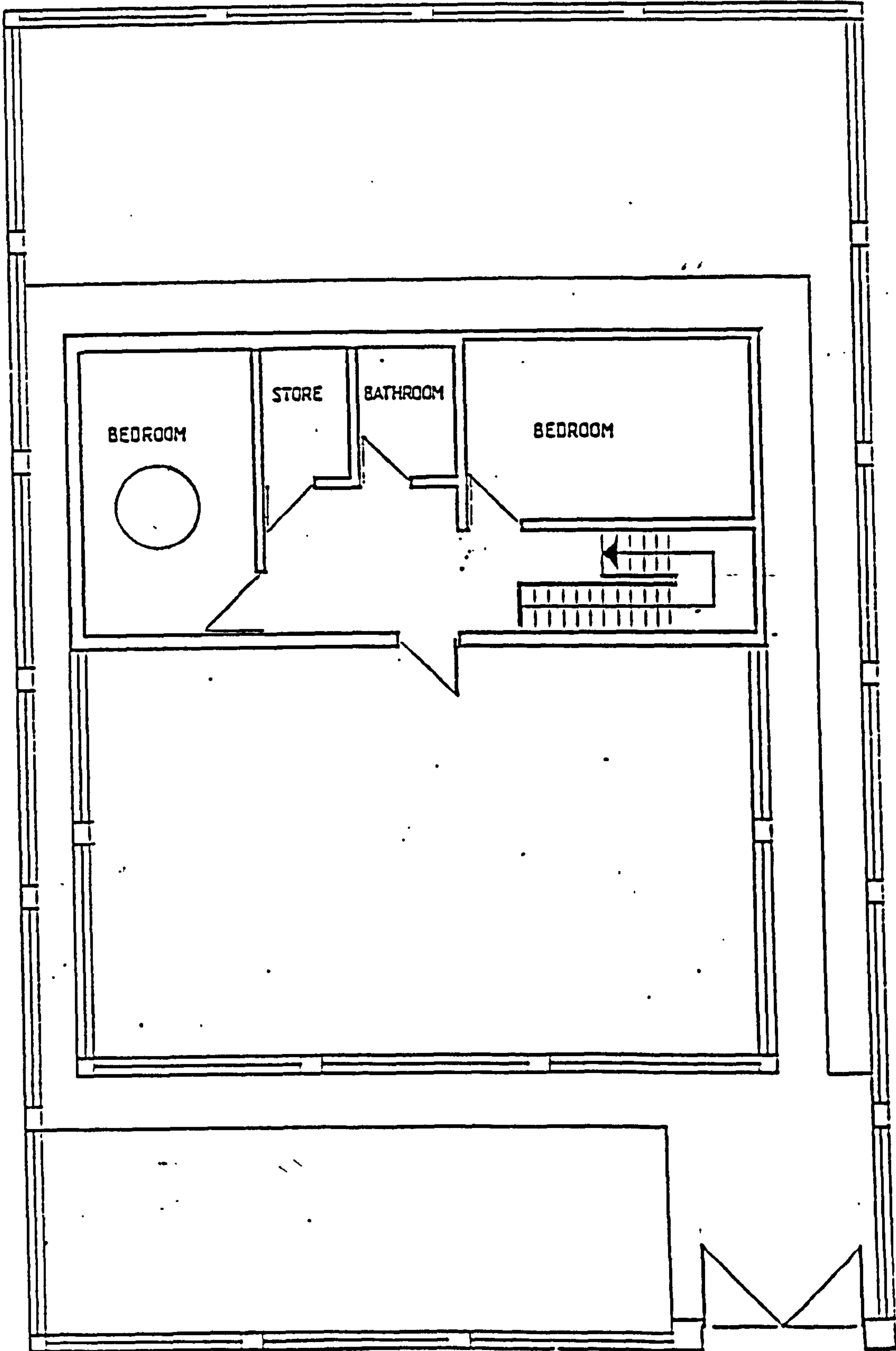
W I D T H	H E I G H T	INTER-HOUSE DIST. = 4.M			INTER-HOUSE DIST. = 6.M			INTER-HOUSE DIST. = 8.M			INTER-HOUSE DIST. = 12.M			
		SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	
0.50	1.00	17.	48.	0.31	0.14	21.	0.39	0.16	25.	0.46	0.20	31.	0.56	86.
0.50	1.25	25.	69.	0.45	0.20	31.	0.56	0.24	36.	0.66	0.29	45.	0.76	117.
0.50	1.50	33.	92.	0.60	0.27	41.	0.75	0.31	48.	0.88	0.39	59.	0.86	131.
0.50	1.75	41.	114.	0.75	0.33	51.	0.93	0.40	61.	1.02	0.48	73.	0.95	145.
0.75	1.00	25.	71.	0.47	0.21	32.	0.58	0.24	37.	0.68	0.30	46.	0.84	129.
0.75	1.25	37.	103.	0.68	0.30	46.	0.84	0.35	54.	0.98	0.44	67.	1.14	174.
0.75	1.50	49.	137.	0.90	0.40	61.	1.11	0.47	71.	1.30	0.58	89.	1.28	195.
0.75	1.75	61.	170.	1.11	0.49	75.	1.38	0.59	90.	1.52	0.72	109.	1.41	216.
1.00	1.00	34.	94.	0.62	0.27	42.	0.76	0.32	49.	0.90	0.40	61.	1.11	170.
1.00	1.25	49.	137.	0.89	0.40	60.	1.11	0.46	71.	1.30	0.58	88.	1.50	229.
1.00	1.50	65.	181.	1.18	0.52	80.	1.47	0.61	94.	1.72	0.77	117.	1.69	258.
1.00	1.75	80.	225.	1.47	0.65	100.	1.82	0.78	120.	2.00	0.95	145.	1.87	286.
1.25	1.00	41.	116.	0.76	0.34	51.	0.94	0.39	60.	1.10	0.49	75.	1.37	209.
1.25	1.25	60.	169.	1.10	0.49	75.	1.37	0.57	88.	1.60	0.71	109.	1.85	283.
1.25	1.50	80.	223.	1.46	0.65	99.	1.81	0.76	116.	2.12	0.95	145.	2.08	318.
1.25	1.75	99.	278.	1.82	0.80	123.	2.25	0.97	148.	2.48	1.17	179.	2.31	353.
1.50	1.00	49.	137.	0.90	0.40	61.	1.11	0.47	71.	1.30	0.58	88.	1.62	247.
1.50	1.25	71.	199.	1.30	0.58	88.	1.61	0.68	103.	1.89	0.84	129.	2.19	334.
1.50	1.50	94.	264.	1.73	0.76	117.	2.14	0.90	137.	2.51	1.12	171.	2.46	377.
1.50	1.75	117.	329.	2.15	0.95	146.	2.66	1.14	175.	2.93	1.39	212.	2.73	418.
1.75	1.00	56.	157.	1.03	0.45	70.	1.27	0.53	82.	1.49	0.66	101.	1.85	283.
1.75	1.25	82.	228.	1.49	0.66	101.	1.85	0.78	119.	2.17	0.97	148.	2.51	383.
1.75	1.50	108.	303.	1.98	0.88	134.	2.46	1.03	157.	2.88	1.29	197.	2.83	432.
1.75	1.75	135.	377.	2.47	1.07	167.	3.06	1.31	201.	3.36	1.60	244.	3.14	480.
2.00	1.00	63.	176.	1.15	0.51	78.	1.43	0.60	91.	1.67	0.74	113.	2.07	317.
2.00	1.25	91.	256.	1.67	0.74	113.	2.07	0.87	133.	2.43	1.08	166.	2.81	429.
2.00	1.50	121.	340.	2.22	0.98	150.	2.75	1.15	176.	3.23	1.45	221.	3.17	485.
2.00	1.75	151.	423.	2.77	1.23	187.	3.43	1.47	226.	3.77	1.80	275.	3.52	538.
2.25	1.00	69.	194.	1.27	0.56	86.	1.57	0.66	101.	1.84	0.81	125.	2.28	349.
2.25	1.25	101.	282.	1.84	0.82	125.	2.28	0.96	146.	2.68	1.19	183.	3.09	473.
2.25	1.50	134.	374.	2.45	1.08	166.	3.03	1.27	194.	3.56	1.60	244.	3.49	534.
2.25	1.75	167.	467.	3.05	1.35	207.	3.78	1.63	249.	4.16	1.99	304.	3.88	594.
2.50	1.00	75.	210.	1.37	0.61	93.	1.70	0.71	109.	2.00	0.88	135.	2.48	379.
2.50	1.25	109.	306.	2.00	0.89	135.	2.48	1.04	159.	2.91	1.30	198.	3.36	514.
2.50	1.50	145.	407.	2.66	1.18	180.	3.30	1.38	211.	3.87	1.74	266.	3.80	581.
2.50	1.75	181.	507.	3.32	1.47	225.	4.11	1.77	271.	4.52	2.16	331.	4.22	646.
2.75	1.00	80.	225.	1.47	0.65	100.	1.83	0.77	117.	2.14	0.95	145.	2.66	406.
2.75	1.25	117.	328.	2.15	0.95	145.	2.66	1.12	171.	3.12	1.39	213.	3.60	551.
2.75	1.50	156.	437.	2.86	1.26	193.	3.54	1.48	227.	4.15	1.87	286.	4.08	624.
2.75	1.75	195.	545.	3.57	1.58	242.	4.42	1.91	291.	4.86	2.33	357.	4.54	695.
3.00	1.00	86.	239.	1.57	0.69	106.	1.94	0.81	124.	2.28	1.01	154.	2.82	432.
3.00	1.25	125.	349.	2.28	1.01	155.	2.83	1.19	181.	3.32	1.48	227.	3.83	586.
3.00	1.50	166.	465.	3.04	1.35	206.	3.77	1.58	241.	4.42	1.99	305.	4.34	664.
3.00	1.75	207.	581.	3.80	1.68	257.	4.71	2.03	311.	5.18	2.49	381.	4.84	741.



Key diagram showing the location
of window data

Side Wall No. 2
1 1/2 Storey

Interhouse Distance
1, 2, 3 and 4m.



FIRST FLOOR PLAN

ORIENTATIONS : NORTH & SOUTH

BEDROOM-2-WINDOW POSITION LEFT THE WINDOW ON THE SIDE WALL -FIRST FLOOR
ORST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST.= 1.M			INTER-HOUSE DIST.= 2.M			INTER-HOUSE DIST.= 3.M			INTER-HOUSE DIST.= 4.M		
		SKY+EXTERNAL 25%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	LUX
0.50	1.00	0.03	3.	0.07	7.	0.03	9.	0.07	7.	0.07	7.	0.07	12.
0.50	1.25	0.04	5.	0.10	13.	0.07	9.	0.10	13.	0.10	13.	0.14	17.
0.50	1.50	0.05	6.	0.14	18.	0.09	12.	0.14	18.	0.14	18.	0.19	24.
0.50	1.75	0.06	8.	0.17	22.	0.12	15.	0.18	23.	0.18	23.	0.28	36.
0.75	1.00	0.04	5.	0.11	14.	0.07	9.	0.11	14.	0.11	14.	0.14	18.
0.75	1.25	0.06	7.	0.16	20.	0.11	14.	0.16	20.	0.16	20.	0.20	26.
0.75	1.50	0.07	9.	0.21	27.	0.14	18.	0.21	26.	0.21	26.	0.28	36.
0.75	1.75	0.09	12.	0.26	33.	0.17	22.	0.27	35.	0.27	35.	0.41	53.
1.00	1.00	0.05	7.	0.14	18.	0.10	12.	0.14	18.	0.14	18.	0.18	24.
1.00	1.25	0.07	7.	0.21	26.	0.14	18.	0.21	26.	0.21	26.	0.27	34.
1.00	1.50	0.10	13.	0.27	35.	0.18	24.	0.27	35.	0.27	35.	0.37	48.
1.00	1.75	0.12	16.	0.34	44.	0.23	29.	0.36	46.	0.36	46.	0.55	70.
1.25	1.00	0.06	8.	0.18	22.	0.12	15.	0.17	22.	0.17	22.	0.23	29.
1.25	1.25	0.09	12.	0.25	33.	0.17	22.	0.25	33.	0.25	33.	0.33	42.
1.25	1.50	0.12	15.	0.34	43.	0.23	29.	0.34	43.	0.34	43.	0.46	59.
1.25	1.75	0.15	19.	0.42	54.	0.28	36.	0.44	57.	0.44	57.	0.68	87.
1.50	1.00	0.07	9.	0.21	27.	0.14	18.	0.21	26.	0.21	26.	0.30	38.
1.50	1.25	0.11	14.	0.30	39.	0.20	26.	0.30	38.	0.30	38.	0.43	55.
1.50	1.50	0.14	18.	0.40	51.	0.27	35.	0.40	51.	0.40	51.	0.60	77.
1.50	1.75	0.18	23.	0.50	64.	0.34	43.	0.52	67.	0.52	67.	0.85	109.
1.75	1.00	0.08	11.	0.24	30.	0.16	21.	0.27	35.	0.27	35.	0.39	50.
1.75	1.25	0.12	16.	0.34	44.	0.23	30.	0.39	50.	0.39	50.	0.55	71.
1.75	1.50	0.16	21.	0.46	59.	0.31	40.	0.51	66.	0.51	66.	0.76	97.
1.75	1.75	0.20	26.	0.57	73.	0.39	49.	0.67	86.	0.67	86.	1.05	135.
2.00	1.00	0.09	12.	0.27	34.	0.19	25.	0.35	45.	0.35	45.	0.47	61.
2.00	1.25	0.14	18.	0.39	50.	0.28	36.	0.50	65.	0.50	65.	0.67	86.
2.00	1.50	0.18	23.	0.51	66.	0.37	47.	0.66	85.	0.66	85.	0.91	117.
2.00	1.75	0.23	29.	0.64	82.	0.46	59.	0.85	109.	0.85	109.	1.25	161.
2.25	1.00	0.10	13.	0.29	38.	0.27	34.	0.43	55.	0.43	55.	0.56	72.
2.25	1.25	0.15	19.	0.43	55.	0.38	49.	0.61	79.	0.61	79.	0.79	101.
2.25	1.50	0.20	26.	0.56	72.	0.50	65.	0.80	103.	0.80	103.	1.07	137.
2.25	1.75	0.25	32.	0.70	90.	0.62	80.	1.02	131.	1.02	131.	1.44	185.
2.50	1.00	0.11	15.	0.32	41.	0.34	44.	0.69	89.	0.69	89.	0.64	82.
2.50	1.25	0.16	21.	0.46	59.	0.49	62.	1.00	128.	1.00	128.	0.90	116.
2.50	1.50	0.22	28.	0.61	79.	0.63	81.	1.31	169.	1.31	169.	1.21	156.
2.50	1.75	0.27	35.	0.77	98.	0.78	100.	1.63	209.	1.63	209.	1.63	209.
2.75	1.00	0.18	23.	0.39	50.	0.41	53.	0.78	100.	0.78	100.	0.71	92.
2.75	1.25	0.26	33.	0.56	73.	0.58	75.	1.11	143.	1.11	143.	1.01	130.
2.75	1.50	0.34	43.	0.75	96.	0.76	98.	1.47	188.	1.47	188.	1.35	174.
2.75	1.75	0.42	54.	0.93	119.	0.93	120.	1.82	233.	1.82	233.	1.81	232.
3.00	1.00	0.24	31.	0.46	59.	0.48	61.	0.86	110.	0.86	110.	0.79	101.
3.00	1.25	0.35	44.	0.66	85.	0.68	87.	1.23	158.	1.23	158.	1.12	143.
3.00	1.50	0.45	58.	0.88	112.	0.88	113.	1.61	207.	1.61	207.	1.47	191.
3.00	1.75	0.56	72.	1.09	139.	1.08	139.	2.00	256.	2.00	256.	1.98	254.

ORIENTATIONS : 22.5 & 157.5 & 202.5 & 337.5

BEDROOM-2-WINDOW POSITION LEFT THE WINDOW ON THE SIDE WALL -FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 70%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 70%WALLREFL.	LUX	FA %				
0.50	1.00	0.03	4.	0.07	10.	0.06	8.	0.16	22.	0.08	11.	0.22	31.	0.10	14.	0.28	40.
0.50	1.25	0.04	5.	0.10	15.	0.08	11.	0.23	32.	0.11	16.	0.32	45.	0.15	21.	0.41	58.
0.50	1.50	0.05	7.	0.14	20.	0.11	15.	0.30	42.	0.15	21.	0.42	60.	0.20	29.	0.53	75.
0.50	1.75	0.06	9.	0.17	24.	0.13	19.	0.37	53.	0.20	28.	0.52	74.	0.29	41.	0.62	87.
0.75	1.00	0.04	5.	0.11	15.	0.08	12.	0.23	33.	0.12	17.	0.33	47.	0.15	21.	0.42	59.
0.75	1.25	0.06	8.	0.16	22.	0.12	17.	0.34	48.	0.17	24.	0.48	67.	0.22	31.	0.61	86.
0.75	1.50	0.07	10.	0.21	29.	0.16	23.	0.45	63.	0.23	32.	0.63	89.	0.30	43.	0.79	112.
0.75	1.75	0.09	13.	0.28	36.	0.20	28.	0.56	77.	0.27	42.	0.78	110.	0.43	61.	0.92	130.
1.00	1.00	0.05	7.	0.14	20.	0.11	16.	0.31	43.	0.16	22.	0.43	61.	0.20	28.	0.55	78.
1.00	1.25	0.07	10.	0.21	29.	0.16	23.	0.45	63.	0.23	32.	0.63	89.	0.29	40.	0.80	113.
1.00	1.50	0.10	14.	0.27	39.	0.21	30.	0.59	84.	0.30	42.	0.83	118.	0.40	56.	1.04	148.
1.00	1.75	0.12	17.	0.34	48.	0.26	37.	0.74	104.	0.39	55.	1.03	146.	0.57	81.	1.22	172.
1.25	1.00	0.06	9.	0.18	25.	0.14	19.	0.38	54.	0.19	27.	0.54	76.	0.24	34.	0.68	96.
1.25	1.25	0.09	13.	0.25	36.	0.20	28.	0.55	78.	0.28	39.	0.78	110.	0.35	50.	0.99	140.
1.25	1.50	0.12	17.	0.34	48.	0.26	37.	0.73	103.	0.37	52.	1.03	146.	0.49	70.	1.29	182.
1.25	1.75	0.15	21.	0.42	57.	0.32	40.	0.71	128.	0.48	68.	1.28	180.	0.71	101.	1.51	213.
1.50	1.00	0.07	10.	0.21	29.	0.16	23.	0.45	63.	0.23	32.	0.63	89.	0.32	45.	0.81	114.
1.50	1.25	0.11	15.	0.30	42.	0.23	33.	0.65	92.	0.33	46.	0.92	130.	0.45	64.	1.17	166.
1.50	1.50	0.14	20.	0.40	56.	0.31	44.	0.86	122.	0.44	62.	1.22	172.	0.63	89.	1.52	215.
1.50	1.75	0.18	25.	0.50	70.	0.38	54.	1.07	152.	0.57	80.	1.51	213.	0.89	125.	1.78	252.
1.75	1.00	0.08	12.	0.24	33.	0.18	26.	0.51	73.	0.29	41.	0.74	104.	0.40	57.	0.93	132.
1.75	1.25	0.12	17.	0.34	49.	0.27	38.	0.75	105.	0.42	59.	1.07	151.	0.58	81.	1.35	191.
1.75	1.50	0.16	23.	0.46	65.	0.35	50.	0.99	140.	0.55	78.	1.42	200.	0.79	111.	1.75	248.
1.75	1.75	0.20	29.	0.57	80.	0.44	62.	1.23	174.	0.72	101.	1.75	247.	1.09	154.	2.05	290.
2.00	1.00	0.09	13.	0.27	38.	0.22	31.	0.58	82.	0.37	52.	0.85	119.	0.49	69.	1.05	149.
2.00	1.25	0.14	19.	0.39	55.	0.31	44.	0.85	120.	0.53	75.	1.22	173.	0.69	98.	1.52	214.
2.00	1.50	0.18	26.	0.51	72.	0.42	59.	1.12	159.	0.70	99.	1.61	228.	0.94	133.	1.97	279.
2.00	1.75	0.23	32.	0.64	90.	0.52	73.	1.40	198.	0.89	126.	1.99	282.	1.28	181.	2.31	327.
2.25	1.00	0.10	15.	0.29	41.	0.29	41.	0.67	95.	0.45	63.	0.95	134.	0.57	80.	1.17	165.
2.25	1.25	0.15	21.	0.43	60.	0.42	59.	0.97	138.	0.64	90.	1.37	193.	0.81	114.	1.68	237.
2.25	1.50	0.20	28.	0.56	80.	0.55	77.	1.29	182.	0.84	118.	1.80	255.	1.09	154.	2.18	308.
2.25	1.75	0.25	36.	0.70	100.	0.68	96.	1.60	227.	1.06	151.	2.23	315.	1.47	208.	2.56	362.
2.50	1.00	0.11	16.	0.32	45.	0.36	51.	0.76	107.	0.52	73.	1.05	148.	0.64	91.	1.27	180.
2.50	1.25	0.16	23.	0.46	65.	0.51	73.	1.10	155.	0.74	105.	1.51	213.	0.92	130.	1.83	259.
2.50	1.50	0.22	31.	0.61	87.	0.68	75.	1.43	203.	0.77	137.	1.77	281.	1.23	174.	2.38	337.
2.50	1.75	0.27	39.	0.77	108.	0.83	118.	1.80	255.	1.23	174.	2.45	347.	1.65	233.	2.80	396.
2.75	1.00	0.17	25.	0.37	53.	0.43	60.	0.84	117.	0.57	83.	1.14	161.	0.72	101.	1.38	195.
2.75	1.25	0.25	36.	0.56	79.	0.61	85.	1.22	172.	0.84	119.	1.64	232.	1.02	144.	1.98	280.
2.75	1.50	0.33	47.	0.74	109.	0.89	113.	1.69	227.	1.10	156.	2.16	306.	1.37	194.	2.57	364.
2.75	1.75	0.41	58.	0.92	130.	0.98	139.	1.99	282.	1.39	197.	2.67	377.	1.82	258.	3.03	428.
3.00	1.00	0.23	33.	0.45	64.	0.49	67.	0.92	130.	0.66	93.	1.23	173.	0.79	111.	1.47	208.
3.00	1.25	0.33	47.	0.63	92.	0.70	77.	1.33	188.	0.74	132.	1.76	247.	1.12	158.	2.12	300.
3.00	1.50	0.44	62.	0.86	122.	0.91	129.	1.75	247.	1.22	173.	2.33	329.	1.50	212.	2.75	389.
3.00	1.75	0.54	77.	1.07	151.	1.13	160.	2.17	307.	1.55	218.	2.87	406.	1.99	281.	3.24	458.

ORIENTATIONS : 45.0 & 135.0 & 225.0 & 315.0

BEDROOM-2-WINDOW POSITION LEFT THE WINDOW ON THE SIDE WALL -FIRST FLOOR
 CEILING HEIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 70%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 70%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 70%WALLREFL.	LUX	FA %				
0.50	1.00	0.03	5.	0.09	13.	0.06	8.	0.16	23.	0.09	13.	0.23	37.	0.09	13.	0.26	37.
0.50	1.25	0.05	7.	0.13	17.	0.08	12.	0.23	33.	0.13	17.	0.37	53.	0.13	17.	0.37	54.
0.50	1.50	0.06	9.	0.18	26.	0.11	16.	0.30	44.	0.17	25.	0.49	71.	0.19	27.	0.48	70.
0.50	1.75	0.08	11.	0.22	32.	0.13	17.	0.37	54.	0.22	33.	0.60	87.	0.28	40.	0.57	83.
0.75	1.00	0.05	7.	0.14	20.	0.08	12.	0.23	34.	0.13	20.	0.38	55.	0.14	20.	0.38	55.
0.75	1.25	0.07	10.	0.20	27.	0.12	18.	0.34	47.	0.20	28.	0.53	80.	0.20	27.	0.53	80.
0.75	1.50	0.09	14.	0.26	38.	0.16	23.	0.45	65.	0.26	38.	0.73	105.	0.28	40.	0.72	105.
0.75	1.75	0.12	17.	0.33	47.	0.20	27.	0.56	81.	0.33	49.	0.87	130.	0.41	60.	0.85	124.
1.00	1.00	0.06	9.	0.18	26.	0.11	16.	0.31	45.	0.18	26.	0.50	72.	0.18	26.	0.50	73.
1.00	1.25	0.07	14.	0.26	38.	0.16	23.	0.43	63.	0.26	37.	0.72	103.	0.26	38.	0.73	106.
1.00	1.50	0.12	18.	0.35	50.	0.21	31.	0.59	86.	0.34	50.	0.96	139.	0.37	53.	0.95	138.
1.00	1.75	0.15	22.	0.43	63.	0.26	38.	0.74	107.	0.44	64.	1.18	171.	0.54	77.	1.13	164.
1.25	1.00	0.08	12.	0.22	32.	0.14	20.	0.38	55.	0.22	32.	0.61	89.	0.22	32.	0.62	90.
1.25	1.25	0.12	17.	0.32	47.	0.20	27.	0.53	80.	0.32	46.	0.87	130.	0.32	47.	0.90	130.
1.25	1.50	0.15	22.	0.43	62.	0.26	38.	0.73	106.	0.42	61.	1.18	172.	0.45	66.	1.17	170.
1.25	1.75	0.19	28.	0.53	77.	0.32	47.	0.71	132.	0.53	79.	1.46	212.	0.67	98.	1.39	202.
1.50	1.00	0.09	14.	0.26	38.	0.16	23.	0.45	65.	0.26	38.	0.73	105.	0.29	42.	0.74	107.
1.50	1.25	0.14	20.	0.38	55.	0.23	34.	0.63	74.	0.38	53.	1.03	153.	0.42	61.	1.07	155.
1.50	1.50	0.18	26.	0.51	73.	0.31	45.	0.86	125.	0.50	72.	1.40	203.	0.58	84.	1.39	202.
1.50	1.75	0.23	33.	0.63	71.	0.38	56.	1.07	156.	0.63	74.	1.73	250.	0.84	123.	1.66	240.
1.75	1.00	0.11	16.	0.30	44.	0.18	27.	0.51	75.	0.33	47.	0.84	122.	0.37	54.	0.85	124.
1.75	1.25	0.16	23.	0.44	64.	0.27	39.	0.75	108.	0.47	68.	1.22	177.	0.53	78.	1.23	179.
1.75	1.50	0.21	30.	0.58	84.	0.33	51.	0.77	144.	0.62	70.	1.61	234.	0.74	107.	1.61	234.
1.75	1.75	0.26	37.	0.72	105.	0.44	64.	1.23	179.	0.80	116.	1.99	289.	1.04	151.	1.91	278.
2.00	1.00	0.12	17.	0.34	47.	0.22	31.	0.58	85.	0.41	59.	0.93	138.	0.45	66.	0.97	140.
2.00	1.25	0.18	25.	0.49	71.	0.31	46.	0.85	123.	0.58	85.	1.38	200.	0.65	94.	1.40	203.
2.00	1.50	0.23	34.	0.63	73.	0.42	60.	1.12	163.	0.77	112.	1.82	264.	0.88	128.	1.82	264.
2.00	1.75	0.29	42.	0.81	118.	0.52	75.	1.40	203.	0.98	142.	2.25	326.	1.23	178.	2.16	314.
2.25	1.00	0.13	19.	0.37	54.	0.27	42.	0.67	98.	0.48	70.	1.06	154.	0.53	77.	1.08	156.
2.25	1.25	0.19	28.	0.54	78.	0.41	60.	0.97	141.	0.69	101.	1.53	222.	0.76	110.	1.55	225.
2.25	1.50	0.26	37.	0.72	104.	0.53	77.	1.27	187.	0.71	132.	2.02	274.	1.03	147.	2.02	293.
2.25	1.75	0.32	46.	0.89	130.	0.68	98.	1.60	232.	1.16	168.	2.49	362.	1.41	205.	2.40	349.
2.50	1.00	0.14	21.	0.40	58.	0.36	52.	0.76	110.	0.56	81.	1.16	169.	0.61	88.	1.18	171.
2.50	1.25	0.21	30.	0.59	85.	0.51	74.	1.09	159.	0.80	116.	1.68	243.	0.86	125.	1.70	246.
2.50	1.50	0.28	40.	0.78	113.	0.67	77.	1.43	219.	1.03	152.	2.21	321.	1.17	167.	2.21	321.
2.50	1.75	0.35	50.	0.97	141.	0.83	121.	1.80	261.	1.33	193.	2.73	396.	1.59	230.	2.63	382.
2.75	1.00	0.21	30.	0.47	67.	0.42	61.	0.84	122.	0.63	91.	1.26	183.	0.68	98.	1.27	185.
2.75	1.25	0.30	43.	0.67	100.	0.60	87.	1.21	176.	0.70	131.	1.82	264.	0.76	140.	1.83	266.
2.75	1.50	0.39	57.	0.91	132.	0.79	115.	1.60	232.	1.18	171.	2.40	348.	1.30	189.	2.39	347.
2.75	1.75	0.49	71.	1.13	165.	0.98	142.	1.97	288.	1.47	216.	2.95	427.	1.76	255.	2.85	413.
3.00	1.00	0.26	38.	0.54	78.	0.48	70.	0.91	133.	0.70	101.	1.35	196.	0.74	108.	1.37	198.
3.00	1.25	0.38	53.	0.78	113.	0.67	100.	1.32	171.	0.77	144.	1.73	282.	1.06	154.	1.77	283.
3.00	1.50	0.50	72.	1.04	150.	0.91	131.	1.74	253.	1.30	189.	2.57	373.	1.43	207.	2.56	372.
3.00	1.75	0.62	90.	1.27	187.	1.12	163.	2.16	314.	1.64	237.	3.17	460.	1.92	278.	3.03	443.

ORIENTATIONS : 67.5 & 112.5 & 247.5 & 292.5

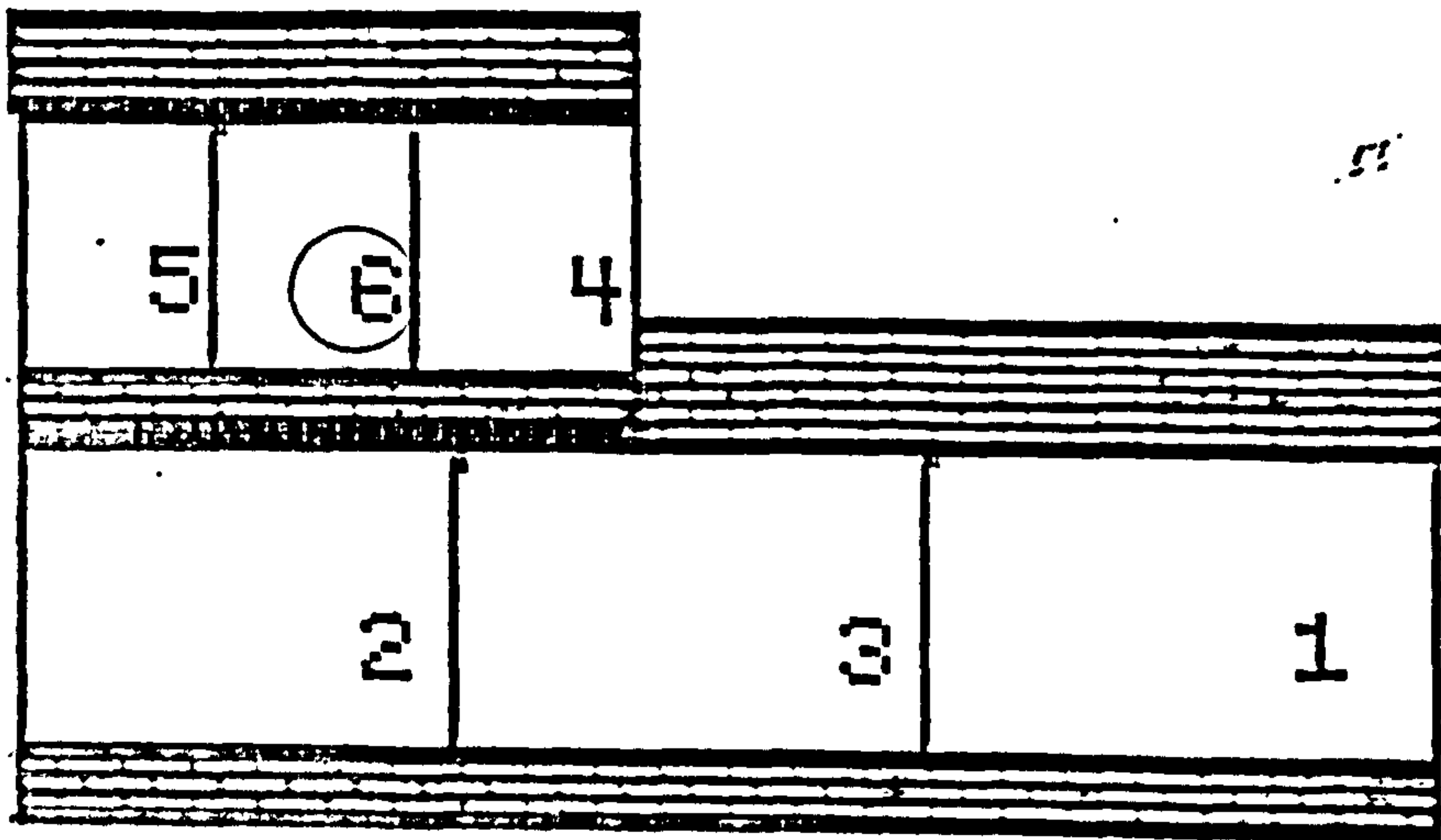
BEDROOM-2-WINDOW POSITION LEFT THE WINDOW ON THE SIDE WALL -FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST.= 1.M			INTER-HOUSE DIST.= 2.M			INTER-HOUSE DIST.= 3.M			INTER-HOUSE DIST.= 4.M						
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %				
0.50	1.00	0.02	4.	0.07	10.	0.05	7.	0.13	20.	0.07	11.	0.20	30.	0.12	19.	0.35	52.
0.50	1.25	0.03	5.	0.10	14.	0.07	10.	0.17	27.	0.10	15.	0.28	43.	0.18	27.	0.50	76.
0.50	1.50	0.05	7.	0.13	19.	0.09	14.	0.25	38.	0.13	20.	0.37	57.	0.25	37.	0.65	98.
0.50	1.75	0.06	8.	0.16	24.	0.11	17.	0.31	47.	0.18	27.	0.47	70.	0.34	51.	0.74	112.
0.75	1.00	0.03	5.	0.10	15.	0.07	10.	0.19	29.	0.10	16.	0.29	44.	0.18	28.	0.52	78.
0.75	1.25	0.05	8.	0.14	21.	0.10	15.	0.28	43.	0.15	23.	0.42	64.	0.27	40.	0.75	113.
0.75	1.50	0.07	10.	0.19	28.	0.13	20.	0.37	56.	0.20	30.	0.56	84.	0.37	55.	0.97	146.
0.75	1.75	0.08	13.	0.23	35.	0.17	25.	0.46	70.	0.26	40.	0.67	105.	0.50	76.	1.10	167.
1.00	1.00	0.05	7.	0.13	20.	0.09	14.	0.26	39.	0.14	21.	0.38	58.	0.24	37.	0.68	103.
1.00	1.25	0.07	10.	0.17	28.	0.13	20.	0.37	56.	0.20	30.	0.56	84.	0.35	53.	0.97	149.
1.00	1.50	0.09	13.	0.25	38.	0.18	27.	0.49	75.	0.26	40.	0.74	111.	0.48	73.	1.28	193.
1.00	1.75	0.11	17.	0.31	47.	0.22	34.	0.61	93.	0.35	53.	0.72	139.	0.66	100.	1.46	221.
1.25	1.00	0.06	9.	0.16	24.	0.11	17.	0.32	48.	0.17	26.	0.47	71.	0.30	45.	0.84	127.
1.25	1.25	0.08	12.	0.23	35.	0.16	25.	0.46	67.	0.25	37.	0.67	104.	0.44	66.	1.22	184.
1.25	1.50	0.11	17.	0.31	46.	0.22	33.	0.61	92.	0.32	49.	0.91	138.	0.60	90.	1.58	239.
1.25	1.75	0.14	21.	0.38	58.	0.27	41.	0.76	114.	0.43	63.	1.13	171.	0.82	124.	1.80	272.
1.50	1.00	0.07	10.	0.17	28.	0.13	20.	0.37	57.	0.20	30.	0.56	84.	0.38	57.	0.97	149.
1.50	1.25	0.10	15.	0.27	41.	0.19	29.	0.54	82.	0.29	44.	0.81	123.	0.55	82.	1.43	216.
1.50	1.50	0.13	20.	0.36	53.	0.26	37.	0.72	107.	0.38	58.	1.07	163.	0.74	112.	1.85	279.
1.50	1.75	0.16	24.	0.45	68.	0.32	48.	0.90	135.	0.51	77.	1.34	202.	1.01	153.	2.11	320.
1.75	1.00	0.08	12.	0.22	33.	0.15	23.	0.43	63.	0.26	37.	0.65	97.	0.47	70.	1.12	169.
1.75	1.25	0.11	17.	0.31	47.	0.22	34.	0.62	94.	0.37	57.	0.95	143.	0.67	101.	1.62	245.
1.75	1.50	0.15	22.	0.42	63.	0.27	45.	0.83	123.	0.47	73.	1.23	170.	0.91	137.	2.10	317.
1.75	1.75	0.18	28.	0.52	78.	0.37	56.	1.03	155.	0.65	98.	1.56	236.	1.22	184.	2.40	364.
2.00	1.00	0.09	13.	0.24	37.	0.18	28.	0.49	74.	0.33	50.	0.75	114.	0.55	83.	1.25	189.
2.00	1.25	0.13	19.	0.35	53.	0.26	40.	0.71	107.	0.48	72.	1.09	165.	0.79	120.	1.80	273.
2.00	1.50	0.17	25.	0.47	71.	0.35	53.	0.94	142.	0.63	95.	1.44	218.	1.06	161.	2.33	353.
2.00	1.75	0.21	31.	0.58	88.	0.44	66.	1.17	177.	0.81	123.	1.79	270.	1.41	214.	2.68	406.
2.25	1.00	0.09	14.	0.27	40.	0.25	38.	0.57	86.	0.40	61.	0.85	128.	0.63	96.	1.37	207.
2.25	1.25	0.14	21.	0.39	58.	0.36	54.	0.82	125.	0.58	88.	1.22	185.	0.91	137.	1.98	300.
2.25	1.50	0.18	28.	0.51	78.	0.47	72.	1.09	165.	0.76	115.	1.61	244.	1.22	184.	2.56	387.
2.25	1.75	0.23	35.	0.64	97.	0.59	89.	1.36	205.	0.98	148.	2.00	303.	1.60	243.	2.95	446.
2.50	1.00	0.10	16.	0.29	44.	0.31	47.	0.65	98.	0.47	71.	0.94	142.	0.71	107.	1.49	225.
2.50	1.25	0.15	23.	0.42	64.	0.45	68.	0.94	142.	0.68	102.	1.35	204.	1.02	154.	2.15	325.
2.50	1.50	0.20	30.	0.56	84.	0.59	89.	1.24	187.	0.89	134.	1.78	270.	1.36	206.	2.78	420.
2.50	1.75	0.25	38.	0.70	105.	0.73	111.	1.54	233.	1.13	172.	2.21	335.	1.79	270.	3.20	484.
2.75	1.00	0.16	24.	0.35	53.	0.37	57.	0.72	109.	0.54	81.	1.02	154.	0.78	118.	1.60	241.
2.75	1.25	0.23	35.	0.51	77.	0.54	81.	1.04	158.	0.77	116.	1.47	223.	1.12	169.	2.30	348.
2.75	1.50	0.30	46.	0.68	102.	0.70	106.	1.38	208.	1.01	152.	1.94	294.	1.50	227.	2.98	451.
2.75	1.75	0.38	57.	0.84	128.	0.87	132.	1.71	259.	1.28	194.	2.41	364.	1.96	297.	3.44	521.
3.00	1.00	0.21	32.	0.41	62.	0.43	65.	0.79	120.	0.60	90.	1.10	166.	0.85	129.	1.70	257.
3.00	1.25	0.31	46.	0.60	90.	0.62	93.	1.14	173.	0.85	129.	1.58	240.	1.22	184.	2.45	371.
3.00	1.50	0.40	61.	0.79	119.	0.81	123.	1.51	228.	1.12	169.	2.09	316.	1.63	246.	3.17	480.
3.00	1.75	0.50	76.	0.98	149.	1.00	152.	1.87	283.	1.43	216.	2.60	393.	2.13	321.	3.67	555.

ORIENTATIONS : EAST & WEST

BEDROOM-2-WINDOW POSITION LEFT THE WINDOW ON THE SIDE WALL -FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

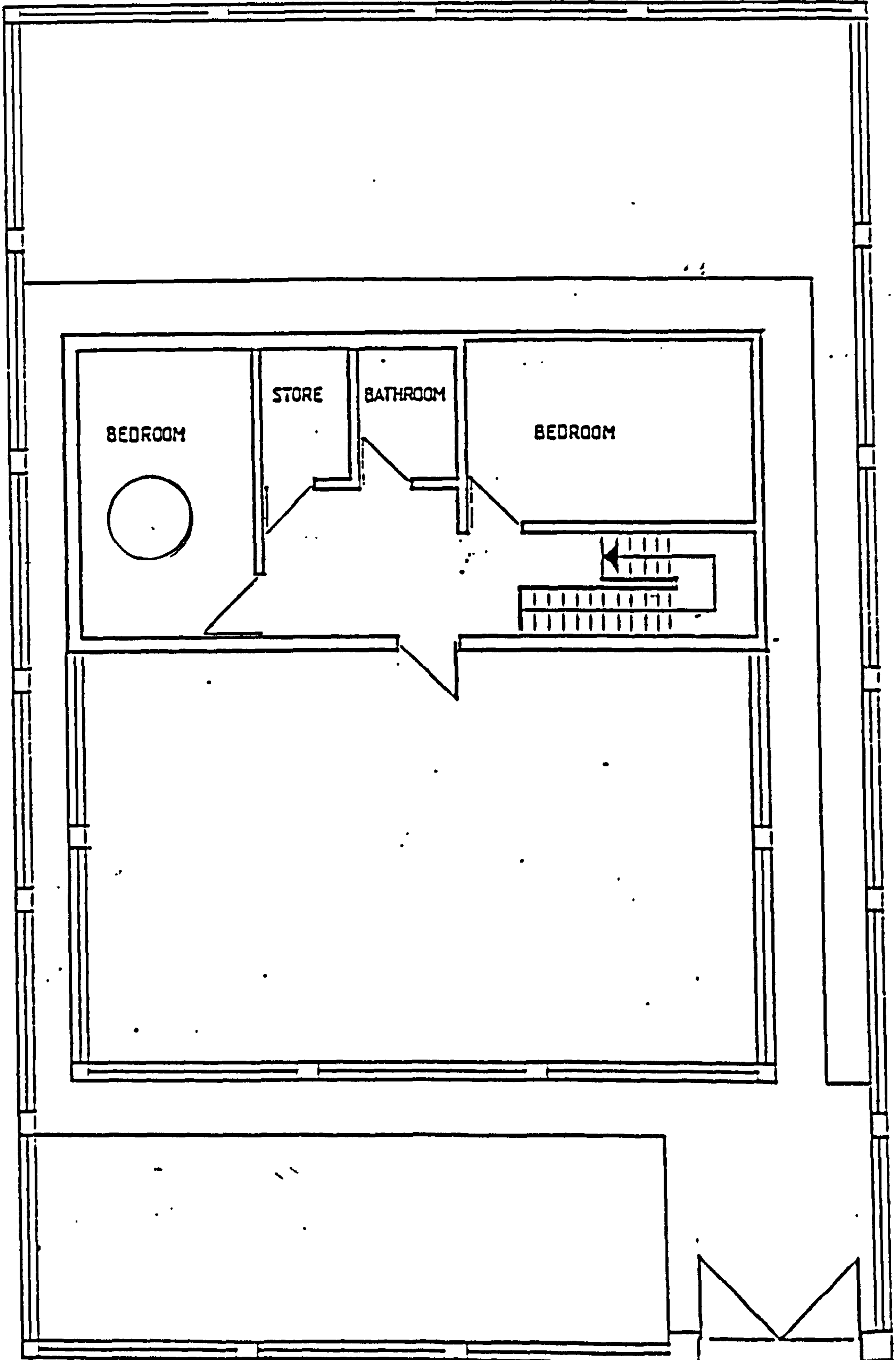
W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL REFLECTION 25%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL REFLECTION 25%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL REFLECTION 25%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL REFLECTION 25%WALLREFL. FA %	LUX	LUX				
0.50	1.00	0.06	9.	0.16	24.	0.08	12.	0.22	34.	0.10	16.	0.29	44.	0.12	19.	0.35	53.
0.50	1.25	0.08	12.	0.23	35.	0.11	18.	0.32	47.	0.15	23.	0.42	64.	0.18	27.	0.50	77.
0.50	1.50	0.11	16.	0.30	46.	0.15	23.	0.43	65.	0.20	30.	0.55	84.	0.25	38.	0.65	99.
0.50	1.75	0.13	20.	0.37	57.	0.17	27.	0.53	81.	0.23	37.	0.68	103.	0.34	52.	0.74	113.
0.75	1.00	0.08	13.	0.23	36.	0.12	18.	0.33	51.	0.15	23.	0.43	65.	0.18	28.	0.52	79.
0.75	1.25	0.12	17.	0.34	52.	0.17	26.	0.48	73.	0.22	34.	0.62	73.	0.27	41.	0.75	114.
0.75	1.50	0.16	25.	0.45	69.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.37	56.	0.97	148.
0.75	1.75	0.20	31.	0.56	85.	0.28	43.	0.79	121.	0.38	57.	1.01	154.	0.50	77.	1.10	169.
1.00	1.00	0.11	17.	0.31	47.	0.16	24.	0.44	67.	0.20	31.	0.56	86.	0.24	37.	0.68	104.
1.00	1.25	0.16	24.	0.45	68.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.35	54.	0.99	151.
1.00	1.50	0.21	32.	0.59	91.	0.30	46.	0.84	128.	0.39	59.	1.08	165.	0.48	74.	1.28	195.
1.00	1.75	0.26	40.	0.74	113.	0.37	57.	1.04	159.	0.50	76.	1.33	203.	0.67	102.	1.46	223.
1.25	1.00	0.14	21.	0.38	58.	0.19	29.	0.54	82.	0.25	38.	0.69	106.	0.30	46.	0.84	128.
1.25	1.25	0.20	30.	0.55	85.	0.28	43.	0.78	119.	0.36	55.	1.01	154.	0.44	67.	1.22	186.
1.25	1.50	0.26	40.	0.73	112.	0.37	56.	1.03	158.	0.48	73.	1.33	204.	0.60	71.	1.58	241.
1.25	1.75	0.33	50.	0.91	139.	0.46	70.	1.29	197.	0.61	94.	1.64	251.	0.82	126.	1.80	276.
1.50	1.00	0.16	25.	0.45	67.	0.23	35.	0.63	77.	0.27	43.	0.82	125.	0.38	58.	0.98	151.
1.50	1.25	0.23	36.	0.65	100.	0.33	50.	0.92	141.	0.43	65.	1.19	182.	0.54	83.	1.43	218.
1.50	1.50	0.31	47.	0.87	132.	0.44	67.	1.22	187.	0.56	86.	1.58	241.	0.74	114.	1.85	282.
1.50	1.75	0.38	59.	1.08	165.	0.54	83.	1.52	233.	0.72	111.	1.94	297.	1.01	155.	2.11	323.
1.75	1.00	0.18	28.	0.52	77.	0.26	40.	0.75	111.	0.36	55.	0.74	144.	0.46	71.	1.12	171.
1.75	1.25	0.27	41.	0.75	115.	0.38	58.	1.06	162.	0.52	80.	1.36	209.	0.67	102.	1.62	248.
1.75	1.50	0.35	54.	0.97	152.	0.50	77.	1.40	215.	0.67	106.	1.81	276.	0.91	138.	2.09	320.
1.75	1.75	0.44	68.	1.24	189.	0.62	95.	1.75	267.	0.88	135.	2.23	340.	1.22	186.	2.40	368.
2.00	1.00	0.21	32.	0.58	88.	0.30	46.	0.82	125.	0.44	68.	1.06	162.	0.55	84.	1.25	191.
2.00	1.25	0.30	46.	0.84	128.	0.44	67.	1.19	182.	0.64	97.	1.53	234.	0.79	121.	1.80	276.
2.00	1.50	0.40	61.	1.11	170.	0.58	87.	1.58	241.	0.84	128.	2.03	310.	1.06	162.	2.33	357.
2.00	1.75	0.50	76.	1.39	212.	0.72	110.	1.97	301.	1.07	163.	2.49	381.	1.41	216.	2.68	410.
2.25	1.00	0.23	35.	0.63	77.	0.37	57.	0.72	140.	0.52	77.	1.17	177.	0.63	96.	1.37	209.
2.25	1.25	0.33	50.	0.92	141.	0.54	82.	1.33	203.	0.74	114.	1.69	258.	0.90	138.	1.98	302.
2.25	1.50	0.44	67.	1.23	188.	0.71	107.	1.76	270.	0.78	150.	2.23	342.	1.21	103.	2.56	391.
2.25	1.75	0.55	84.	1.53	234.	0.88	135.	2.19	336.	1.24	190.	2.75	420.	1.60	245.	2.95	451.
2.50	1.00	0.25	38.	0.69	105.	0.44	68.	1.01	154.	0.59	90.	1.27	195.	0.71	108.	1.48	227.
2.50	1.25	0.36	55.	1.00	153.	0.64	97.	1.46	224.	0.85	130.	1.84	281.	1.01	155.	2.14	328.
2.50	1.50	0.48	73.	1.33	204.	0.84	128.	1.94	296.	1.12	171.	2.43	372.	1.36	207.	2.77	424.
2.50	1.75	0.59	91.	1.66	254.	1.04	159.	2.41	369.	1.41	216.	2.99	458.	1.78	273.	3.20	489.
2.75	1.00	0.31	47.	0.77	117.	0.51	77.	1.10	168.	0.66	101.	1.37	209.	0.78	119.	1.59	243.
2.75	1.25	0.45	68.	1.11	170.	0.73	111.	1.59	243.	0.95	145.	1.98	303.	1.11	170.	2.30	351.
2.75	1.50	0.59	90.	1.48	226.	0.96	147.	2.10	322.	1.24	190.	2.62	400.	1.47	228.	2.97	455.
2.75	1.75	0.74	112.	1.84	282.	1.17	182.	2.62	401.	1.57	240.	3.22	473.	1.96	297.	3.44	526.
3.00	1.00	0.37	56.	0.84	128.	0.57	87.	1.18	180.	0.72	111.	1.46	224.	0.85	129.	1.69	259.
3.00	1.25	0.53	81.	1.22	186.	0.82	125.	1.71	261.	1.04	157.	2.11	323.	1.21	185.	2.44	374.
3.00	1.50	0.70	107.	1.62	247.	1.08	165.	2.26	346.	1.37	209.	2.79	427.	1.62	248.	3.16	484.
3.00	1.75	0.87	133.	2.02	308.	1.34	204.	2.81	430.	1.72	263.	3.44	526.	2.12	324.	3.66	560.



Key diagram showing the location
of window data ..

Side Wall No. 2
1 1/2 Storey

Interhouse Distance ..
1, 2, 3 and 4m.



0.0 5m

FIRST FLOOR PLAN

ORIENTATIONS: NORTH & SOUTH
 BEDROOM-2-(MIDDLE WINDOW) WINDOW ON SIDE WALL -FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M				
		SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FAZ	LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ		
0.50	1.00	0.03	3.	0.07	9.	0.14	18.	0.07	9.	0.20	26.	0.09	12.	0.26	34.
0.50	1.25	0.04	5.	0.10	13.	0.20	26.	0.10	13.	0.29	38.	0.14	17.	0.38	49.
0.50	1.50	0.05	6.	0.14	18.	0.26	34.	0.14	18.	0.39	50.	0.19	24.	0.50	64.
0.50	1.75	0.06	8.	0.17	22.	0.33	42.	0.18	23.	0.48	62.	0.28	36.	0.58	75.
0.75	1.00	0.04	5.	0.11	14.	0.20	26.	0.11	14.	0.30	39.	0.14	18.	0.39	50.
0.75	1.25	0.06	7.	0.16	20.	0.30	38.	0.16	20.	0.44	56.	0.20	26.	0.57	73.
0.75	1.50	0.07	9.	0.21	27.	0.39	50.	0.21	26.	0.58	74.	0.28	36.	0.74	95.
0.75	1.75	0.09	12.	0.26	33.	0.49	63.	0.27	35.	0.71	92.	0.41	53.	0.87	111.
1.00	1.00	0.05	7.	0.14	18.	0.27	35.	0.14	18.	0.40	51.	0.18	24.	0.51	66.
1.00	1.25	0.07	9.	0.21	26.	0.39	50.	0.21	26.	0.57	74.	0.27	34.	0.75	96.
1.00	1.50	0.10	13.	0.27	35.	0.52	66.	0.27	35.	0.76	98.	0.37	48.	0.97	125.
1.00	1.75	0.12	16.	0.34	44.	0.64	83.	0.36	46.	0.94	121.	0.55	70.	1.15	147.
1.25	1.00	0.06	8.	0.18	22.	0.33	43.	0.17	22.	0.49	63.	0.23	29.	0.63	81.
1.25	1.25	0.09	12.	0.25	33.	0.48	62.	0.25	33.	0.71	91.	0.33	42.	0.92	118.
1.25	1.50	0.12	15.	0.34	43.	0.64	82.	0.34	43.	0.94	121.	0.46	59.	1.20	154.
1.25	1.75	0.15	19.	0.42	54.	0.79	102.	0.44	57.	1.17	150.	0.68	87.	1.42	182.
1.50	1.00	0.07	9.	0.21	27.	0.39	50.	0.21	26.	0.58	74.	0.27	34.	0.75	96.
1.50	1.25	0.11	14.	0.30	39.	0.57	73.	0.30	38.	0.84	108.	0.39	50.	1.09	140.
1.50	1.50	0.14	18.	0.40	51.	0.76	97.	0.40	51.	1.11	143.	0.55	70.	1.42	183.
1.50	1.75	0.18	23.	0.50	64.	0.94	121.	0.52	67.	1.38	177.	0.80	103.	1.68	216.
1.75	1.00	0.08	11.	0.24	30.	0.45	58.	0.24	30.	0.66	85.	0.31	39.	0.86	110.
1.75	1.25	0.12	16.	0.34	44.	0.65	84.	0.34	44.	0.96	123.	0.45	57.	1.25	160.
1.75	1.50	0.16	21.	0.46	59.	0.87	111.	0.46	58.	1.27	164.	0.63	81.	1.63	210.
1.75	1.75	0.20	26.	0.57	73.	1.08	139.	0.60	77.	1.58	203.	0.93	119.	1.93	248.
2.00	1.00	0.09	12.	0.27	34.	0.50	65.	0.26	34.	0.74	95.	0.34	44.	0.96	123.
2.00	1.25	0.14	18.	0.39	50.	0.73	94.	0.38	49.	1.08	138.	0.50	64.	1.40	179.
2.00	1.50	0.18	23.	0.51	66.	0.97	125.	0.51	66.	1.43	183.	0.71	91.	1.83	235.
2.00	1.75	0.23	29.	0.64	82.	1.21	155.	0.67	86.	1.78	228.	1.04	134.	2.17	278.
2.25	1.00	0.10	13.	0.29	38.	0.55	71.	0.29	37.	0.81	105.	0.38	49.	1.06	136.
2.25	1.25	0.15	19.	0.43	55.	0.81	103.	0.42	54.	1.19	152.	0.55	71.	1.54	198.
2.25	1.50	0.20	26.	0.56	72.	1.07	137.	0.56	72.	1.57	202.	0.78	100.	2.02	259.
2.25	1.75	0.25	32.	0.70	90.	1.33	171.	0.74	95.	1.96	252.	1.16	148.	2.39	307.
2.50	1.00	0.11	15.	0.32	41.	0.60	77.	0.32	41.	0.88	113.	0.47	60.	1.16	149.
2.50	1.25	0.16	21.	0.46	59.	0.87	112.	0.46	59.	1.29	165.	0.68	87.	1.69	216.
2.50	1.50	0.22	28.	0.61	79.	1.16	149.	0.61	78.	1.71	220.	0.94	121.	2.21	283.
2.50	1.75	0.27	35.	0.77	98.	1.45	186.	0.81	104.	2.13	274.	1.36	174.	2.62	336.
2.75	1.00	0.12	16.	0.34	44.	0.64	83.	0.35	44.	0.95	122.	0.57	74.	1.27	163.
2.75	1.25	0.18	23.	0.50	64.	0.94	121.	0.50	65.	1.39	178.	0.82	105.	1.83	235.
2.75	1.50	0.24	30.	0.66	85.	1.25	160.	0.67	86.	1.84	237.	1.12	144.	2.39	307.
2.75	1.75	0.29	38.	0.82	106.	1.56	200.	0.88	113.	2.30	295.	1.58	202.	2.84	365.
3.00	1.00	0.13	17.	0.36	45.	0.68	88.	0.45	57.	1.05	135.	0.67	85.	1.37	175.
3.00	1.25	0.19	24.	0.53	68.	1.00	128.	0.64	82.	1.52	196.	0.96	123.	1.97	252.
3.00	1.50	0.25	32.	0.70	90.	1.33	171.	0.84	108.	2.02	259.	1.30	167.	2.56	329.
3.00	1.75	0.31	40.	0.88	112.	1.66	213.	1.09	141.	2.51	322.	1.79	229.	3.05	392.

ORIENTATIONS: 22.5 & 157.5 & 202.5 & 337.5

BEDROOM-2-(MIDDLE WINDOW) WINDOW ON SIDE WALL -FIRST FLOOR
OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W		INTER-HOUSE DIST.= 1.M			INTER-HOUSE DIST.= 2.M			INTER-HOUSE DIST.= 3.M			INTER-HOUSE DIST.= 4.M						
WIDTH	HEIGHT	SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	LUX	SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	LUX	SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	LUX	SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	LUX
0.50	1.00	0.03	4.	0.07	10.	0.06	8.	0.16	22.	0.08	11.	0.22	31.	0.10	14.	0.28	40.
0.50	1.25	0.04	5.	0.10	15.	0.08	11.	0.23	32.	0.11	16.	0.32	45.	0.15	21.	0.41	58.
0.50	1.50	0.05	7.	0.14	20.	0.11	15.	0.30	42.	0.15	21.	0.42	60.	0.20	29.	0.53	75.
0.50	1.75	0.06	9.	0.17	24.	0.13	19.	0.37	53.	0.20	28.	0.52	74.	0.29	41.	0.62	87.
0.75	1.00	0.04	5.	0.11	15.	0.08	12.	0.23	33.	0.12	17.	0.33	47.	0.15	21.	0.42	59.
0.75	1.25	0.06	8.	0.16	22.	0.12	17.	0.34	48.	0.17	24.	0.48	67.	0.22	31.	0.61	86.
0.75	1.50	0.07	10.	0.21	29.	0.16	23.	0.45	63.	0.23	32.	0.63	89.	0.30	43.	0.79	112.
0.75	1.75	0.09	13.	0.26	36.	0.20	28.	0.56	79.	0.29	42.	0.78	110.	0.43	61.	0.92	130.
1.00	1.00	0.05	7.	0.14	20.	0.11	16.	0.31	43.	0.16	22.	0.43	61.	0.20	28.	0.55	78.
1.00	1.25	0.07	10.	0.21	29.	0.16	23.	0.45	63.	0.23	32.	0.63	89.	0.29	40.	0.80	113.
1.00	1.50	0.10	14.	0.27	39.	0.21	30.	0.59	84.	0.30	42.	0.83	118.	0.40	56.	1.04	148.
1.00	1.75	0.12	17.	0.34	48.	0.26	37.	0.74	104.	0.39	55.	1.03	146.	0.57	81.	1.22	172.
1.25	1.00	0.06	9.	0.18	25.	0.14	19.	0.38	54.	0.19	27.	0.54	76.	0.24	34.	0.68	96.
1.25	1.25	0.09	13.	0.25	36.	0.20	28.	0.55	78.	0.28	39.	0.78	110.	0.35	50.	0.99	140.
1.25	1.50	0.12	17.	0.34	48.	0.26	37.	0.73	103.	0.37	52.	1.03	146.	0.49	70.	1.29	182.
1.25	1.75	0.15	21.	0.42	59.	0.32	46.	0.91	128.	0.48	68.	1.28	180.	0.71	101.	1.51	213.
1.50	1.00	0.07	10.	0.21	29.	0.16	23.	0.45	63.	0.23	32.	0.63	89.	0.29	41.	0.81	114.
1.50	1.25	0.11	15.	0.30	42.	0.23	33.	0.65	92.	0.33	46.	0.92	130.	0.42	59.	1.17	165.
1.50	1.50	0.14	20.	0.40	56.	0.31	44.	0.86	122.	0.44	62.	1.22	172.	0.58	83.	1.52	215.
1.50	1.75	0.18	25.	0.50	70.	0.38	54.	1.07	152.	0.57	80.	1.51	213.	0.84	119.	1.78	252.
1.75	1.00	0.08	12.	0.24	33.	0.18	26.	0.51	73.	0.26	37.	0.73	102.	0.33	47.	0.92	130.
1.75	1.25	0.12	17.	0.34	49.	0.27	38.	0.75	105.	0.38	53.	1.05	149.	0.48	68.	1.34	189.
1.75	1.50	0.16	23.	0.46	65.	0.35	50.	0.99	140.	0.50	71.	1.40	198.	0.67	95.	1.75	247.
1.75	1.75	0.20	29.	0.57	80.	0.44	62.	1.23	174.	0.65	92.	1.73	245.	0.97	137.	2.05	290.
2.00	1.00	0.09	13.	0.27	38.	0.21	29.	0.58	81.	0.29	41.	0.81	115.	0.37	52.	1.03	146.
2.00	1.25	0.14	19.	0.39	55.	0.30	42.	0.84	118.	0.42	60.	1.18	167.	0.54	76.	1.50	212.
2.00	1.50	0.18	26.	0.51	72.	0.40	56.	1.11	157.	0.56	79.	1.57	222.	0.75	105.	1.96	277.
2.00	1.75	0.23	32.	0.64	90.	0.49	70.	1.38	196.	0.73	104.	1.94	275.	1.09	155.	2.30	325.
2.25	1.00	0.10	15.	0.29	41.	0.23	32.	0.63	89.	0.32	45.	0.89	126.	0.41	57.	1.14	161.
2.25	1.25	0.15	21.	0.43	60.	0.33	46.	0.92	130.	0.46	66.	1.30	184.	0.59	84.	1.65	234.
2.25	1.50	0.20	28.	0.56	80.	0.44	62.	1.22	173.	0.62	87.	1.73	244.	0.83	117.	2.16	306.
2.25	1.75	0.25	36.	0.70	100.	0.54	77.	1.53	216.	0.81	114.	2.14	303.	1.21	171.	2.54	359.
2.50	1.00	0.11	16.	0.32	45.	0.25	35.	0.69	97.	0.35	49.	0.97	137.	0.49	70.	1.24	175.
2.50	1.25	0.16	23.	0.46	65.	0.36	50.	1.00	141.	0.50	71.	1.41	200.	0.71	101.	1.80	254.
2.50	1.50	0.22	31.	0.61	87.	0.47	67.	1.33	188.	0.67	95.	1.88	265.	0.99	139.	2.34	331.
2.50	1.75	0.27	39.	0.77	108.	0.59	84.	1.66	234.	0.88	124.	2.33	330.	1.40	198.	2.76	390.
2.75	1.00	0.12	17.	0.34	48.	0.26	37.	0.74	104.	0.38	53.	1.04	147.	0.59	83.	1.34	189.
2.75	1.25	0.18	25.	0.50	70.	0.38	54.	1.07	152.	0.55	78.	1.52	215.	0.85	120.	1.93	273.
2.75	1.50	0.24	33.	0.66	93.	0.51	72.	1.43	202.	0.73	103.	2.02	285.	1.16	164.	2.52	356.
2.75	1.75	0.29	42.	0.82	116.	0.64	90.	1.78	252.	0.96	136.	2.51	355.	1.61	228.	2.97	420.
3.00	1.00	0.13	18.	0.36	51.	0.28	40.	0.78	111.	0.47	66.	1.13	160.	0.68	95.	1.43	202.
3.00	1.25	0.19	27.	0.53	74.	0.41	58.	1.14	161.	0.68	96.	1.65	233.	0.97	138.	2.06	291.
3.00	1.50	0.25	35.	0.70	99.	0.54	77.	1.52	215.	0.90	127.	2.18	309.	1.32	187.	2.68	379.
3.00	1.75	0.31	44.	0.88	124.	0.68	96.	1.90	268.	1.16	164.	2.71	383.	1.81	256.	3.17	448.

ORIENTATIONS : 45.0 & 135.0 & 225.0 & 315.0
 BEDROOM-2-(MIDDLE WINDOW) WINDOW ON SIDE WALL -FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.0 M			INTER-HOUSE DIST. = 2.0 M			INTER-HOUSE DIST. = 3.0 M			INTER-HOUSE DIST. = 4.0 M				
		SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 70%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %	SKY+EXTERNAL REFLECTION 25%WALLREFL.	LUX	FA %		
0.50	1.00	0.03	5.	0.09	13.	0.16	8.	0.09	13.	0.25	37.	0.09	13.	0.26	37.
0.50	1.25	0.05	7.	0.13	19.	0.23	12.	0.13	19.	0.37	53.	0.13	19.	0.37	54.
0.50	1.50	0.06	9.	0.18	26.	0.30	16.	0.17	25.	0.49	71.	0.19	27.	0.48	70.
0.50	1.75	0.08	11.	0.22	32.	0.37	19.	0.22	33.	0.60	87.	0.28	40.	0.57	83.
0.75	1.00	0.05	7.	0.14	20.	0.23	12.	0.13	20.	0.38	55.	0.14	20.	0.38	55.
0.75	1.25	0.07	10.	0.20	29.	0.34	18.	0.20	28.	0.55	80.	0.20	29.	0.55	80.
0.75	1.50	0.09	14.	0.26	38.	0.45	23.	0.26	38.	0.73	105.	0.28	40.	0.72	105.
0.75	1.75	0.12	17.	0.33	47.	0.56	29.	0.33	49.	0.89	130.	0.41	60.	0.85	124.
1.00	1.00	0.06	9.	0.18	26.	0.31	16.	0.18	26.	0.50	72.	0.18	26.	0.50	73.
1.00	1.25	0.09	14.	0.26	38.	0.45	23.	0.26	37.	0.72	105.	0.26	38.	0.73	106.
1.00	1.50	0.12	18.	0.35	50.	0.59	31.	0.34	50.	0.96	139.	0.37	53.	0.95	138.
1.00	1.75	0.15	22.	0.43	63.	0.74	38.	0.44	64.	1.18	171.	0.54	79.	1.13	164.
1.25	1.00	0.08	12.	0.22	32.	0.38	20.	0.22	32.	0.61	89.	0.22	32.	0.62	90.
1.25	1.25	0.12	17.	0.32	47.	0.55	29.	0.32	46.	0.89	130.	0.32	47.	0.90	130.
1.25	1.50	0.15	22.	0.43	62.	0.73	38.	0.42	61.	1.18	172.	0.45	66.	1.17	170.
1.25	1.75	0.19	28.	0.53	77.	0.91	47.	0.55	79.	1.46	212.	0.67	98.	1.39	202.
1.50	1.00	0.09	14.	0.26	38.	0.45	23.	0.26	38.	0.73	105.	0.26	38.	0.73	106.
1.50	1.25	0.14	20.	0.38	55.	0.65	34.	0.38	55.	1.05	153.	0.38	55.	1.06	154.
1.50	1.50	0.18	26.	0.51	73.	0.86	45.	0.50	72.	1.40	203.	0.54	78.	1.39	202.
1.50	1.75	0.23	33.	0.63	91.	1.07	56.	0.65	94.	1.73	250.	0.80	116.	1.65	240.
1.75	1.00	0.11	16.	0.30	44.	0.51	27.	0.30	43.	0.83	121.	0.30	43.	0.84	121.
1.75	1.25	0.16	23.	0.44	64.	0.75	39.	0.43	63.	1.21	176.	0.43	63.	1.22	177.
1.75	1.50	0.21	30.	0.58	84.	0.99	51.	0.57	83.	1.60	233.	0.62	89.	1.59	231.
1.75	1.75	0.26	37.	0.72	105.	1.23	64.	0.74	108.	1.98	288.	0.92	133.	1.90	275.
2.00	1.00	0.12	17.	0.34	49.	0.58	30.	0.33	48.	0.93	135.	0.33	49.	0.94	136.
2.00	1.25	0.18	25.	0.49	71.	0.84	43.	0.48	70.	1.36	197.	0.49	71.	1.36	198.
2.00	1.50	0.23	34.	0.63	93.	1.11	58.	0.64	73.	1.80	261.	0.67	100.	1.77	259.
2.00	1.75	0.29	42.	0.81	118.	1.38	72.	0.83	121.	2.22	323.	1.03	150.	2.13	309.
2.25	1.00	0.13	19.	0.37	54.	0.63	33.	0.37	53.	1.03	149.	0.37	53.	1.03	150.
2.25	1.25	0.19	28.	0.54	78.	0.92	48.	0.53	77.	1.49	217.	0.54	78.	1.50	218.
2.25	1.50	0.26	37.	0.72	104.	1.22	63.	0.71	103.	1.98	288.	0.76	111.	1.97	286.
2.25	1.75	0.32	46.	0.89	130.	1.53	79.	0.92	133.	2.45	356.	1.15	166.	2.35	342.
2.50	1.00	0.14	21.	0.40	58.	0.69	36.	0.40	58.	1.11	161.	0.45	66.	1.13	164.
2.50	1.25	0.21	30.	0.59	85.	1.00	52.	0.58	84.	1.62	235.	0.65	95.	1.64	238.
2.50	1.50	0.28	40.	0.78	113.	1.33	69.	0.77	112.	2.15	313.	0.91	133.	2.15	312.
2.50	1.75	0.35	50.	0.97	141.	1.66	85.	1.00	145.	2.67	387.	1.34	194.	2.57	373.
2.75	1.00	0.15	22.	0.43	63.	0.74	38.	0.43	63.	1.19	173.	0.55	80.	1.23	178.
2.75	1.25	0.22	33.	0.63	91.	1.07	56.	0.63	91.	1.74	253.	0.79	114.	1.77	257.
2.75	1.50	0.30	43.	0.84	122.	1.43	74.	0.84	121.	2.31	336.	1.08	157.	2.32	336.
2.75	1.75	0.37	54.	1.05	152.	1.78	92.	1.09	158.	2.87	416.	1.54	224.	2.77	403.
3.00	1.00	0.16	24.	0.46	67.	0.78	41.	0.52	76.	1.29	187.	0.64	93.	1.32	191.
3.00	1.25	0.24	35.	0.67	97.	1.14	59.	0.75	110.	1.87	271.	0.91	132.	1.90	275.
3.00	1.50	0.32	46.	0.89	129.	1.52	79.	1.00	145.	2.48	359.	1.25	181.	2.48	360.
3.00	1.75	0.40	58.	1.11	162.	1.90	98.	1.28	186.	3.06	445.	1.74	252.	2.97	431.

ORIENTATIONS : 67.5 & 112.5 & 247.5 & 292.5

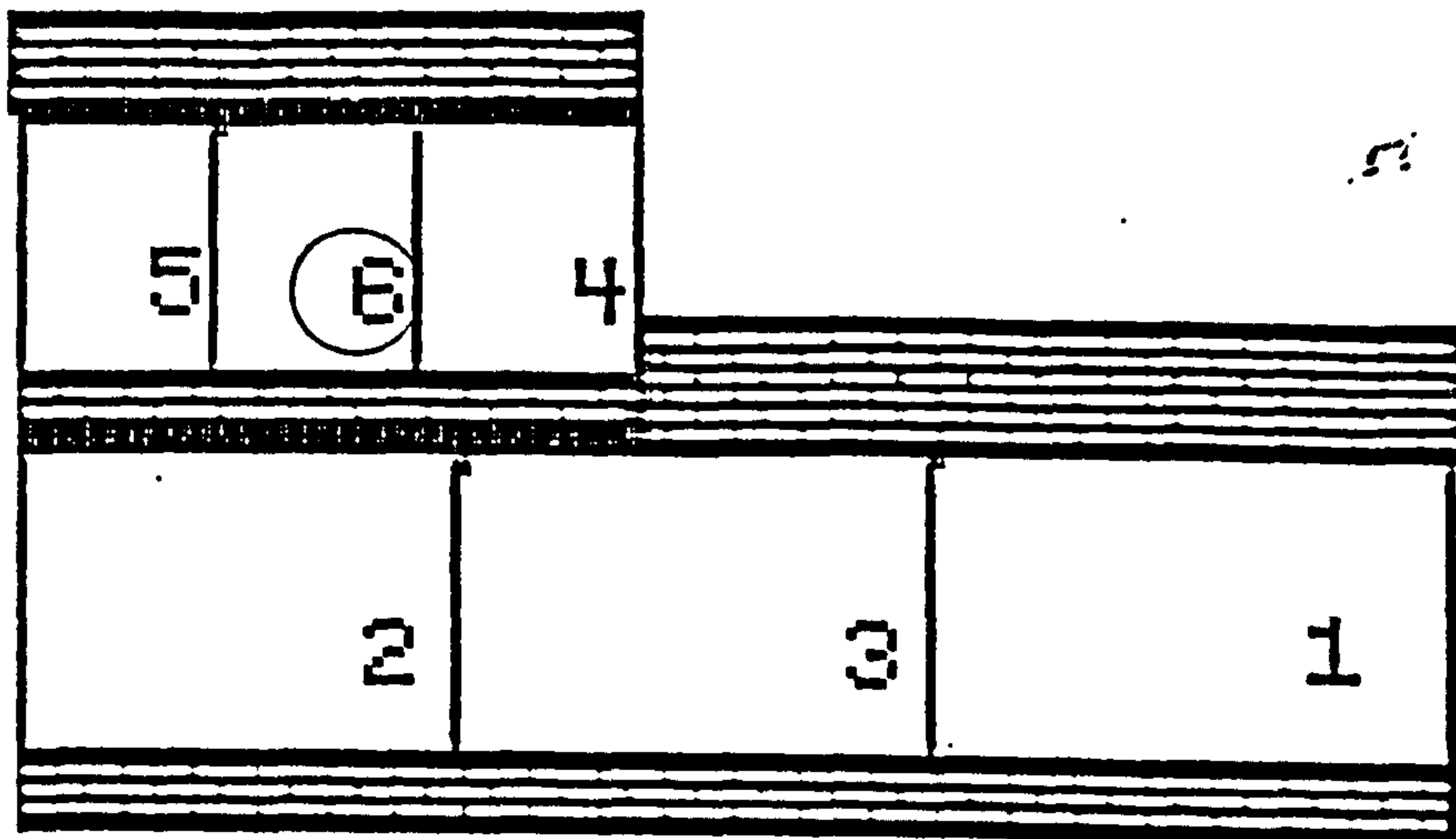
BEDROOM-2-(MIDDLE WINDOW) WINDOW ON SIDE WALL -FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M				
		SKY+EXTERNAL REFLECTION 25%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL REFLECTION 25%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL REFLECTION 25%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL REFLECTION 25%WALLREFL. FA %	LUX	LUX		
0.50	1.00	0.02	4.	0.07	10.	0.13	20.	0.07	11.	0.20	30.	0.12	19.	0.35	52.
0.50	1.25	0.03	5.	0.10	14.	0.19	29.	0.10	15.	0.28	43.	0.18	27.	0.50	76.
0.50	1.50	0.05	7.	0.13	19.	0.25	38.	0.13	20.	0.37	57.	0.25	37.	0.65	98.
0.50	1.75	0.06	8.	0.16	24.	0.31	47.	0.18	27.	0.47	70.	0.34	51.	0.74	112.
0.75	1.00	0.03	5.	0.10	15.	0.19	29.	0.10	16.	0.29	44.	0.18	28.	0.52	78.
0.75	1.25	0.05	8.	0.14	21.	0.28	43.	0.15	23.	0.42	64.	0.27	40.	0.75	113.
0.75	1.50	0.07	10.	0.19	28.	0.37	56.	0.20	30.	0.56	84.	0.37	55.	0.97	146.
0.75	1.75	0.08	13.	0.23	35.	0.46	70.	0.26	40.	0.69	105.	0.50	76.	1.10	167.
1.00	1.00	0.05	7.	0.13	20.	0.26	39.	0.14	21.	0.38	58.	0.24	37.	0.68	103.
1.00	1.25	0.07	10.	0.19	28.	0.37	56.	0.20	30.	0.56	84.	0.35	53.	0.99	149.
1.00	1.50	0.09	13.	0.25	38.	0.47	75.	0.26	40.	0.74	111.	0.48	73.	1.28	193.
1.00	1.75	0.11	17.	0.31	47.	0.61	93.	0.35	53.	0.92	139.	0.66	100.	1.46	221.
1.25	1.00	0.06	9.	0.16	24.	0.32	48.	0.17	26.	0.47	71.	0.30	45.	0.84	127.
1.25	1.25	0.08	12.	0.23	35.	0.46	69.	0.25	37.	0.69	104.	0.44	66.	1.22	184.
1.25	1.50	0.11	17.	0.31	46.	0.61	92.	0.32	49.	0.91	138.	0.60	90.	1.58	239.
1.25	1.75	0.14	21.	0.38	58.	0.76	114.	0.43	65.	1.13	171.	0.82	124.	1.80	272.
1.50	1.00	0.07	10.	0.19	28.	0.37	57.	0.20	30.	0.56	84.	0.35	54.	0.99	150.
1.50	1.25	0.10	15.	0.27	41.	0.54	82.	0.29	44.	0.81	123.	0.51	78.	1.44	218.
1.50	1.50	0.13	20.	0.36	55.	0.72	109.	0.38	58.	1.07	163.	0.71	107.	1.86	282.
1.50	1.75	0.16	24.	0.45	68.	0.90	135.	0.51	77.	1.34	202.	0.97	147.	2.13	322.
1.75	1.00	0.08	12.	0.22	33.	0.43	65.	0.23	35.	0.64	97.	0.41	61.	1.14	172.
1.75	1.25	0.11	17.	0.31	47.	0.62	94.	0.33	50.	0.93	141.	0.59	89.	1.65	250.
1.75	1.50	0.15	22.	0.42	63.	0.83	125.	0.44	67.	1.23	187.	0.81	123.	2.14	324.
1.75	1.75	0.18	28.	0.52	78.	1.03	155.	0.58	88.	1.54	232.	1.12	169.	2.45	370.
2.00	1.00	0.09	13.	0.24	37.	0.48	73.	0.26	39.	0.72	108.	0.45	69.	1.27	193.
2.00	1.25	0.13	19.	0.35	53.	0.70	105.	0.37	56.	1.04	158.	0.66	100.	1.85	280.
2.00	1.50	0.17	25.	0.47	71.	0.93	140.	0.49	75.	1.38	209.	0.91	138.	2.40	363.
2.00	1.75	0.21	31.	0.58	88.	1.15	174.	0.66	99.	1.72	261.	1.26	190.	2.75	416.
2.25	1.00	0.09	14.	0.27	40.	0.53	80.	0.28	43.	0.79	119.	0.50	76.	1.40	212.
2.25	1.25	0.14	21.	0.39	58.	0.77	116.	0.41	62.	1.15	173.	0.73	110.	2.04	308.
2.25	1.50	0.18	28.	0.51	78.	1.02	154.	0.54	82.	1.52	230.	1.00	152.	2.64	400.
2.25	1.75	0.23	35.	0.64	97.	1.27	192.	0.72	109.	1.90	288.	1.39	210.	3.03	459.
2.50	1.00	0.10	16.	0.29	44.	0.57	87.	0.31	46.	0.86	129.	0.59	89.	1.50	227.
2.50	1.25	0.15	23.	0.42	64.	0.83	126.	0.44	67.	1.25	188.	0.85	128.	2.18	330.
2.50	1.50	0.20	30.	0.56	84.	1.11	168.	0.59	89.	1.66	250.	1.16	175.	2.83	428.
2.50	1.75	0.25	38.	0.70	105.	1.38	209.	0.79	119.	2.07	313.	1.58	239.	3.26	493.
2.75	1.00	0.11	17.	0.31	47.	0.61	93.	0.33	51.	0.92	139.	0.68	102.	1.60	241.
2.75	1.25	0.16	24.	0.45	68.	0.89	135.	0.49	73.	1.34	203.	0.97	147.	2.31	350.
2.75	1.50	0.21	32.	0.60	91.	1.19	180.	0.65	98.	1.78	270.	1.32	200.	3.00	453.
2.75	1.75	0.27	40.	0.75	113.	1.49	225.	0.86	130.	2.23	337.	1.78	270.	3.46	523.
3.00	1.00	0.12	18.	0.33	50.	0.65	99.	0.42	64.	1.01	152.	0.76	116.	1.68	255.
3.00	1.25	0.17	26.	0.48	72.	0.95	144.	0.61	92.	1.46	221.	1.10	166.	2.43	368.
3.00	1.50	0.23	34.	0.64	96.	1.27	192.	0.80	121.	1.94	293.	1.48	224.	3.15	477.
3.00	1.75	0.28	43.	0.80	121.	1.58	239.	1.05	159.	2.42	366.	1.97	299.	3.65	552.

ORIENTATIONS : EAST & WEST

BEDROOM-2-(MIDDLE WINDOW) WINDOW ON SIDE WALL -FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

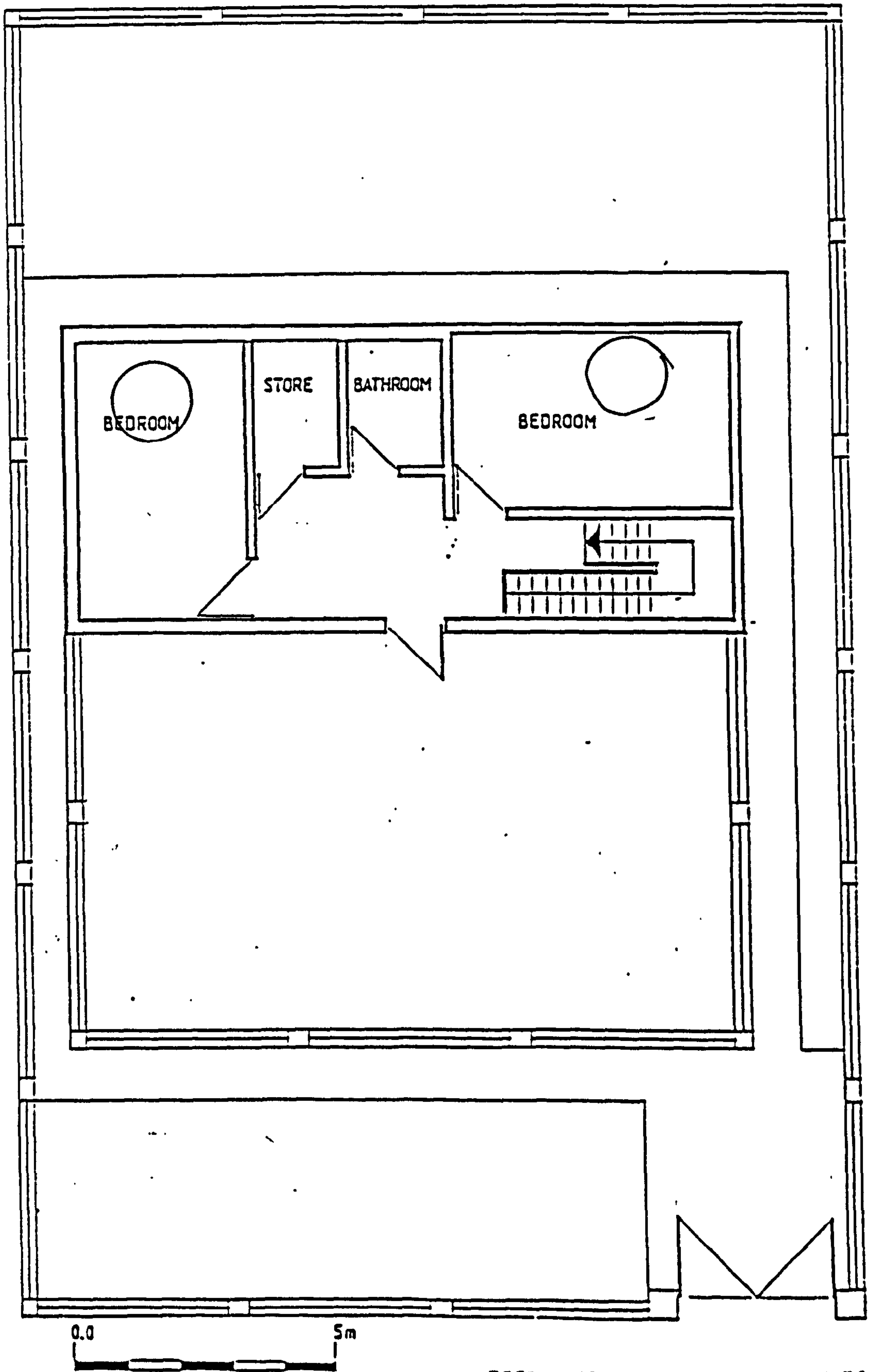
W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST.= 1.M			INTER-HOUSE DIST.= 2.M			INTER-HOUSE DIST.= 3.M			INTER-HOUSE DIST.= 4.M						
		SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	REFLECTION 70%WALLREFL. FAZ				
0.50	1.00	0.06	7.	0.16	24.	0.08	12.	0.22	34.	0.10	16.	0.29	44.	0.12	19.	0.35	53.
0.50	1.25	0.08	12.	0.23	35.	0.11	18.	0.32	49.	0.15	23.	0.42	64.	0.18	27.	0.50	77.
0.50	1.50	0.11	16.	0.30	46.	0.15	23.	0.43	65.	0.20	30.	0.55	84.	0.25	38.	0.65	99.
0.50	1.75	0.13	20.	0.37	57.	0.19	29.	0.53	81.	0.25	39.	0.68	103.	0.34	52.	0.74	113.
0.75	1.00	0.08	13.	0.23	36.	0.12	18.	0.33	51.	0.15	23.	0.43	65.	0.18	28.	0.52	79.
0.75	1.25	0.12	19.	0.34	52.	0.17	26.	0.48	73.	0.22	34.	0.62	95.	0.27	41.	0.75	114.
0.75	1.50	0.16	25.	0.45	69.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.37	56.	0.97	148.
0.75	1.75	0.20	31.	0.56	85.	0.28	43.	0.79	121.	0.38	57.	1.01	154.	0.50	77.	1.10	169.
1.00	1.00	0.11	17.	0.31	47.	0.16	24.	0.44	67.	0.20	31.	0.56	86.	0.24	37.	0.68	104.
1.00	1.25	0.16	24.	0.45	68.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.35	54.	0.99	151.
1.00	1.50	0.21	32.	0.59	91.	0.30	46.	0.84	128.	0.39	59.	1.08	165.	0.48	74.	1.28	195.
1.00	1.75	0.26	40.	0.74	113.	0.37	57.	1.04	159.	0.50	76.	1.33	203.	0.67	102.	1.46	223.
1.25	1.00	0.14	21.	0.38	58.	0.19	29.	0.54	82.	0.25	38.	0.69	106.	0.30	46.	0.84	128.
1.25	1.25	0.20	30.	0.55	85.	0.28	43.	0.78	119.	0.36	55.	1.01	154.	0.44	67.	1.22	186.
1.25	1.50	0.26	40.	0.73	112.	0.37	56.	1.03	158.	0.48	73.	1.33	204.	0.60	91.	1.58	241.
1.25	1.75	0.33	50.	0.91	139.	0.46	70.	1.29	197.	0.61	94.	1.64	251.	0.82	126.	1.80	276.
1.50	1.00	0.16	25.	0.45	69.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.35	54.	0.99	152.
1.50	1.25	0.23	36.	0.65	100.	0.33	50.	0.92	141.	0.43	65.	1.19	182.	0.51	79.	1.44	220.
1.50	1.50	0.31	47.	0.87	132.	0.44	67.	1.22	187.	0.56	86.	1.58	241.	0.71	108.	1.86	285.
1.50	1.75	0.38	59.	1.08	165.	0.54	83.	1.52	233.	0.72	111.	1.94	297.	0.98	149.	2.13	326.
1.75	1.00	0.18	28.	0.52	79.	0.26	40.	0.73	111.	0.34	51.	0.94	144.	0.41	62.	1.14	174.
1.75	1.25	0.27	41.	0.75	115.	0.38	58.	1.06	162.	0.49	75.	1.36	209.	0.59	90.	1.65	253.
1.75	1.50	0.35	54.	0.99	152.	0.50	77.	1.40	215.	0.65	99.	1.81	277.	0.81	124.	2.14	327.
1.75	1.75	0.44	68.	1.24	189.	0.62	95.	1.75	267.	0.83	127.	2.23	341.	1.12	171.	2.45	375.
2.00	1.00	0.21	32.	0.58	88.	0.29	45.	0.81	125.	0.38	57.	1.05	161.	0.45	70.	1.27	195.
2.00	1.25	0.30	46.	0.84	128.	0.42	65.	1.18	181.	0.55	84.	1.53	234.	0.66	101.	1.85	283.
2.00	1.50	0.40	61.	1.11	170.	0.56	86.	1.57	241.	0.73	111.	2.03	311.	0.91	139.	2.40	367.
2.00	1.75	0.50	76.	1.39	212.	0.70	107.	1.96	300.	0.93	143.	2.50	383.	1.26	193.	2.75	421.
2.25	1.00	0.23	35.	0.63	97.	0.32	49.	0.90	137.	0.41	63.	1.16	177.	0.50	77.	1.40	214.
2.25	1.25	0.33	50.	0.92	141.	0.47	71.	1.30	200.	0.60	92.	1.68	258.	0.73	111.	2.04	312.
2.25	1.50	0.44	67.	1.23	188.	0.62	95.	1.73	265.	0.80	122.	2.24	342.	1.00	153.	2.64	404.
2.25	1.75	0.55	84.	1.53	234.	0.77	118.	2.16	330.	1.03	158.	2.76	422.	1.39	213.	3.03	464.
2.50	1.00	0.25	38.	0.69	105.	0.35	53.	0.97	149.	0.45	69.	1.26	192.	0.58	89.	1.50	230.
2.50	1.25	0.36	55.	1.00	153.	0.51	77.	1.42	217.	0.65	100.	1.83	280.	0.85	129.	2.18	334.
2.50	1.50	0.48	73.	1.33	204.	0.67	103.	1.88	288.	0.87	133.	2.43	372.	1.16	177.	2.83	433.
2.50	1.75	0.59	91.	1.66	254.	0.84	128.	2.35	359.	1.12	171.	3.00	459.	1.58	242.	3.26	498.
2.75	1.00	0.26	40.	0.74	113.	0.37	57.	1.04	160.	0.49	74.	1.35	206.	0.68	103.	1.59	244.
2.75	1.25	0.38	59.	1.08	165.	0.54	83.	1.52	233.	0.71	108.	1.96	300.	0.97	149.	2.31	353.
2.75	1.50	0.51	78.	1.43	219.	0.72	110.	2.02	309.	0.94	144.	2.61	399.	1.32	202.	2.99	458.
2.75	1.75	0.64	98.	1.79	274.	0.90	138.	2.53	386.	1.22	186.	3.22	493.	1.78	273.	3.46	529.
3.00	1.00	0.28	43.	0.79	120.	0.40	61.	1.11	170.	0.57	87.	1.43	219.	0.76	116.	1.68	257.
3.00	1.25	0.41	63.	1.14	175.	0.58	88.	1.62	247.	0.83	127.	2.08	318.	1.09	167.	2.43	371.
3.00	1.50	0.54	83.	1.52	233.	0.77	118.	2.15	329.	1.10	168.	2.76	423.	1.47	225.	3.15	481.
3.00	1.75	0.68	104.	1.90	291.	0.96	147.	2.69	411.	1.40	215.	3.41	522.	1.97	302.	3.65	558.



Key diagram showing the location
of window data ..

Side Wall No. 2
1 1/2 Storey

Interhouse Distance
1, 2, 3 and 4m.



FIRST FLOOR PLAN

ORIENTATIONS: NORTH & SOUTH
 WINDOW ON BACK WALL -FIRST FLOOR-
 BEDROOM -2- OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 4.M			INTER-HOUSE DIST. = 6.M			INTER-HOUSE DIST. = 8.M			INTER-HOUSE DIST. = 12.M						
		SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %	SKY+EXTERNAL REFLECTION	70%WALLREFL.	FA %				
0.50	1.00	0.12	16.	0.35	45.	0.16	21.	0.45	58.	0.20	25.	0.48	61.	0.24	31.	0.43	55.
0.50	1.25	0.18	23.	0.50	65.	0.25	32.	0.59	75.	0.29	38.	0.57	73.	0.33	43.	0.52	67.
0.50	1.50	0.25	31.	0.65	83.	0.34	43.	0.68	87.	0.39	49.	0.66	85.	0.43	55.	0.61	79.
0.50	1.75	0.33	43.	0.74	94.	0.43	55.	0.77	98.	0.47	61.	0.75	96.	0.51	66.	0.70	90.
0.75	1.00	0.18	24.	0.52	66.	0.24	31.	0.67	86.	0.29	38.	0.71	91.	0.35	46.	0.63	81.
0.75	1.25	0.27	34.	0.75	96.	0.37	47.	0.87	112.	0.44	56.	0.85	109.	0.50	64.	0.78	100.
0.75	1.50	0.37	47.	0.97	124.	0.51	65.	1.01	130.	0.58	74.	0.99	127.	0.64	82.	0.92	118.
0.75	1.75	0.49	64.	1.10	141.	0.63	81.	1.14	147.	0.70	91.	1.12	144.	0.77	98.	1.05	134.
1.00	1.00	0.24	31.	0.68	87.	0.31	40.	0.88	113.	0.39	50.	0.93	120.	0.47	60.	0.84	108.
1.00	1.25	0.35	45.	0.99	127.	0.48	62.	1.15	148.	0.58	74.	1.13	144.	0.66	85.	1.03	132.
1.00	1.50	0.48	62.	1.28	164.	0.67	86.	1.34	172.	0.76	98.	1.31	168.	0.84	108.	1.21	156.
1.00	1.75	0.65	84.	1.45	186.	0.84	108.	1.51	194.	0.93	120.	1.48	190.	1.02	131.	1.39	178.
1.25	1.00	0.30	39.	0.84	108.	0.39	50.	1.09	140.	0.48	61.	1.15	148.	0.58	75.	1.03	133.
1.25	1.25	0.44	56.	1.22	157.	0.60	77.	1.42	183.	0.71	92.	1.39	178.	0.82	105.	1.27	163.
1.25	1.50	0.60	77.	1.58	202.	0.83	106.	1.65	212.	0.94	121.	1.62	208.	1.05	134.	1.50	193.
1.25	1.75	0.81	104.	1.79	230.	1.04	134.	1.87	240.	1.16	149.	1.83	235.	1.26	162.	1.72	220.
1.50	1.00	0.35	45.	0.99	127.	0.46	59.	1.28	165.	0.56	72.	1.36	175.	0.69	88.	1.22	157.
1.50	1.25	0.51	66.	1.44	185.	0.71	91.	1.68	216.	0.85	109.	1.65	211.	0.97	125.	1.51	194.
1.50	1.50	0.71	91.	1.86	239.	0.98	126.	1.96	251.	1.12	144.	1.92	246.	1.25	160.	1.78	229.
1.50	1.75	0.96	123.	2.12	272.	1.24	159.	2.21	284.	1.38	177.	2.17	279.	1.50	193.	2.04	262.
1.75	1.00	0.41	52.	1.14	146.	0.53	67.	1.47	189.	0.65	83.	1.56	201.	0.79	102.	1.41	181.
1.75	1.25	0.59	76.	1.65	212.	0.81	104.	1.93	248.	0.98	125.	1.89	243.	1.12	144.	1.73	223.
1.75	1.50	0.81	104.	2.14	274.	1.13	145.	2.25	289.	1.29	166.	2.21	283.	1.44	184.	2.05	263.
1.75	1.75	1.11	142.	2.43	313.	1.43	183.	2.55	327.	1.59	204.	2.50	321.	1.73	223.	2.35	301.
2.00	1.00	0.45	58.	1.27	163.	0.59	76.	1.65	212.	0.73	93.	1.75	225.	0.89	115.	1.58	203.
2.00	1.25	0.66	85.	1.85	238.	0.91	117.	2.17	278.	1.10	141.	2.12	272.	1.26	162.	1.95	250.
2.00	1.50	0.91	117.	2.40	308.	1.27	163.	2.53	324.	1.46	187.	2.48	318.	1.62	208.	2.31	296.
2.00	1.75	1.25	160.	2.73	351.	1.61	207.	2.86	368.	1.79	230.	2.82	362.	1.96	252.	2.65	340.
2.25	1.00	0.50	64.	1.40	180.	0.65	83.	1.81	233.	0.80	103.	1.93	247.	0.99	127.	1.74	224.
2.25	1.25	0.73	93.	2.04	262.	1.01	130.	2.39	307.	1.22	156.	2.34	301.	1.40	180.	2.16	277.
2.25	1.50	1.00	129.	2.64	339.	1.41	181.	2.79	358.	1.62	207.	2.74	352.	1.80	231.	2.56	328.
2.25	1.75	1.38	177.	3.02	388.	1.79	229.	3.17	406.	1.99	256.	3.12	400.	2.18	279.	2.93	376.
2.50	1.00	0.54	70.	1.52	195.	0.70	90.	1.97	253.	0.87	112.	2.09	269.	1.08	138.	1.90	243.
2.50	1.25	0.79	101.	2.21	284.	1.10	141.	2.60	333.	1.33	170.	2.55	327.	1.53	197.	2.35	302.
2.50	1.50	1.09	140.	2.87	369.	1.54	198.	3.04	390.	1.77	227.	2.99	384.	1.97	253.	2.79	358.
2.50	1.75	1.50	193.	3.29	422.	1.95	251.	3.45	443.	2.18	280.	3.40	437.	2.39	306.	3.20	411.
2.75	1.00	0.58	75.	1.63	209.	0.75	97.	2.11	271.	0.94	120.	2.25	289.	1.16	149.	2.04	262.
2.75	1.25	0.85	109.	2.38	305.	1.18	152.	2.79	358.	1.43	184.	2.74	352.	1.66	212.	2.53	325.
2.75	1.50	1.17	150.	3.09	396.	1.66	213.	3.27	420.	1.91	245.	3.22	413.	2.13	274.	3.01	387.
2.75	1.75	1.62	208.	3.54	454.	2.11	271.	3.72	478.	2.36	303.	3.67	471.	2.59	332.	3.46	445.
3.00	1.00	0.62	79.	1.73	222.	0.80	103.	2.24	288.	1.00	128.	2.39	307.	1.24	159.	2.17	279.
3.00	1.25	0.90	116.	2.53	324.	1.26	162.	2.97	381.	1.53	196.	2.92	375.	1.77	228.	2.71	347.
3.00	1.50	1.25	160.	3.28	422.	1.78	228.	3.49	447.	2.05	263.	3.44	441.	2.29	294.	3.22	414.
3.00	1.75	1.74	223.	3.77	484.	2.27	291.	3.97	510.	2.53	325.	3.93	504.	2.78	357.	3.71	476.

ORIENTATIONS: 22.5 & 157.5 & 202.5 & 337.5

BEDROOM -2- WINDOW ON BACK WALL -FIRST FLOOR-
OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 4. M			INTER-HOUSE DIST. = 6. M			INTER-HOUSE DIST. = 8. M			INTER-HOUSE DIST. = 12. M						
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ %				
0.50	1.00	0.12	17.	0.35	49.	0.18	25.	0.49	70.	0.21	30.	0.51	72.	0.24	34.	0.44	63.
0.50	1.25	0.18	25.	0.50	71.	0.26	37.	0.64	90.	0.30	43.	0.61	86.	0.34	48.	0.54	76.
0.50	1.50	0.25	35.	0.65	92.	0.36	51.	0.73	104.	0.40	56.	0.70	99.	0.43	61.	0.63	89.
0.50	1.75	0.33	47.	0.74	104.	0.45	63.	0.82	116.	0.47	69.	0.79	111.	0.52	73.	0.72	102.
0.75	1.00	0.18	26.	0.52	73.	0.26	37.	0.74	104.	0.31	44.	0.76	108.	0.36	51.	0.66	93.
0.75	1.25	0.27	38.	0.75	106.	0.39	56.	0.95	135.	0.45	64.	0.90	128.	0.50	71.	0.80	113.
0.75	1.50	0.37	52.	0.97	137.	0.53	75.	1.09	154.	0.59	84.	1.04	147.	0.64	91.	0.94	133.
0.75	1.75	0.50	70.	1.10	155.	0.66	94.	1.22	173.	0.72	102.	1.18	166.	0.77	109.	1.07	152.
1.00	1.00	0.24	34.	0.68	96.	0.35	49.	0.97	137.	0.41	58.	1.01	142.	0.48	67.	0.87	123.
1.00	1.25	0.35	50.	0.99	140.	0.52	74.	1.26	178.	0.60	85.	1.19	169.	0.67	94.	1.06	150.
1.00	1.50	0.48	68.	1.28	180.	0.71	100.	1.44	204.	0.78	111.	1.38	195.	0.85	120.	1.24	176.
1.00	1.75	0.66	93.	1.45	205.	0.88	124.	1.62	229.	0.96	136.	1.55	220.	1.02	145.	1.42	201.
1.25	1.00	0.30	42.	0.84	119.	0.43	60.	1.20	169.	0.51	72.	1.24	175.	0.59	83.	1.08	152.
1.25	1.25	0.44	62.	1.22	172.	0.64	91.	1.55	220.	0.74	105.	1.48	209.	0.82	116.	1.31	185.
1.25	1.50	0.60	84.	1.58	223.	0.87	123.	1.78	252.	0.97	137.	1.70	241.	1.05	149.	1.54	218.
1.25	1.75	0.81	115.	1.79	253.	1.09	154.	2.00	283.	1.19	168.	1.92	272.	1.27	180.	1.76	248.
1.50	1.00	0.35	50.	0.99	140.	0.51	71.	1.42	200.	0.60	85.	1.47	207.	0.70	99.	1.27	180.
1.50	1.25	0.51	73.	1.44	204.	0.76	108.	1.84	260.	0.88	124.	1.75	247.	0.98	138.	1.55	219.
1.50	1.50	0.71	100.	1.86	263.	1.03	146.	2.11	298.	1.15	163.	2.02	285.	1.25	177.	1.82	258.
1.50	1.75	0.96	136.	2.12	300.	1.29	183.	2.37	335.	1.41	200.	2.28	322.	1.51	213.	2.08	295.
1.75	1.00	0.41	57.	1.14	161.	0.58	82.	1.62	229.	0.69	97.	1.68	238.	0.80	113.	1.46	206.
1.75	1.25	0.59	83.	1.65	233.	0.87	124.	2.11	298.	1.01	143.	2.00	283.	1.13	159.	1.78	252.
1.75	1.50	0.81	114.	2.14	302.	1.19	168.	2.42	342.	1.33	188.	2.32	328.	1.44	204.	2.10	297.
1.75	1.75	1.11	157.	2.44	345.	1.49	211.	2.72	385.	1.63	230.	2.62	370.	1.74	246.	2.40	339.
2.00	1.00	0.45	64.	1.27	180.	0.65	92.	1.82	257.	0.77	109.	1.88	266.	0.90	128.	1.64	232.
2.00	1.25	0.66	93.	1.85	262.	0.98	139.	2.36	334.	1.14	161.	2.25	318.	1.27	179.	2.00	283.
2.00	1.50	0.91	128.	2.40	339.	1.34	189.	2.72	384.	1.49	211.	2.61	368.	1.62	230.	2.36	334.
2.00	1.75	1.25	177.	2.74	387.	1.68	237.	3.06	433.	1.83	259.	2.95	416.	1.97	278.	2.70	382.
2.25	1.00	0.50	71.	1.40	198.	0.71	101.	2.00	283.	0.85	120.	2.07	293.	1.00	141.	1.81	255.
2.25	1.25	0.73	103.	2.04	288.	1.08	153.	2.60	368.	1.26	178.	2.48	350.	1.40	198.	2.21	313.
2.25	1.50	1.00	142.	2.64	373.	1.48	209.	3.00	424.	1.65	234.	2.88	407.	1.80	255.	2.61	369.
2.25	1.75	1.38	195.	3.02	427.	1.86	263.	3.38	478.	2.03	287.	3.26	460.	2.18	308.	2.99	423.
2.50	1.00	0.54	77.	1.52	215.	0.77	109.	2.17	307.	0.92	131.	2.25	318.	1.09	154.	1.96	278.
2.50	1.25	0.79	112.	2.21	313.	1.18	167.	2.83	400.	1.37	194.	2.70	381.	1.53	216.	2.41	340.
2.50	1.50	1.09	154.	2.87	406.	1.62	228.	3.27	461.	1.81	255.	3.13	443.	1.97	278.	2.85	402.
2.50	1.75	1.51	213.	3.29	465.	2.03	287.	3.68	520.	2.22	314.	3.55	502.	2.39	337.	3.26	461.
2.75	1.00	0.58	82.	1.63	230.	0.83	117.	2.33	329.	0.99	140.	2.42	342.	1.17	166.	2.11	298.
2.75	1.25	0.85	120.	2.38	336.	1.27	179.	3.04	429.	1.48	209.	2.90	410.	1.65	234.	2.59	367.
2.75	1.50	1.17	166.	3.09	436.	1.74	246.	3.51	496.	1.95	276.	3.37	477.	2.13	301.	3.07	434.
2.75	1.75	1.63	230.	3.54	500.	2.20	310.	3.97	561.	2.40	340.	3.83	541.	2.58	365.	3.52	498.
3.00	1.00	0.62	87.	1.73	245.	0.88	125.	2.47	349.	1.06	150.	2.57	363.	1.25	177.	2.25	318.
3.00	1.25	0.90	127.	2.53	357.	1.35	191.	3.23	457.	1.58	223.	3.09	436.	1.77	250.	2.77	391.
3.00	1.50	1.25	176.	3.28	464.	1.86	263.	3.74	529.	2.09	295.	3.60	509.	2.28	322.	3.28	463.
3.00	1.75	1.74	246.	3.77	533.	2.35	332.	4.23	598.	2.58	364.	4.09	578.	2.77	391.	3.77	532.

ORIENTATIONS : 45.0 & 135.0 & 225.0 & 315.0

BEDROOM -2- WINDOW ON BACK WALL -FIRST FLOOR-
OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 4.M			INTER-HOUSE DIST. = 6.M			INTER-HOUSE DIST. = 8.M			INTER-HOUSE DIST. = 12.M						
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ				
0.50	1.00	0.14	20.	0.39	57.	0.18	26.	0.49	72.	0.22	33.	0.55	81.	0.25	36.	0.47	68.
0.50	1.25	0.20	29.	0.57	83.	0.26	38.	0.64	93.	0.32	46.	0.65	94.	0.35	50.	0.56	82.
0.50	1.50	0.28	40.	0.73	106.	0.36	52.	0.73	107.	0.41	60.	0.74	108.	0.44	64.	0.66	95.
0.50	1.75	0.36	53.	0.82	119.	0.45	65.	0.82	119.	0.50	73.	0.83	121.	0.53	77.	0.74	108.
0.75	1.00	0.21	30.	0.58	85.	0.26	38.	0.74	107.	0.33	48.	0.83	120.	0.37	54.	0.69	101.
0.75	1.25	0.30	44.	0.85	123.	0.39	57.	0.95	138.	0.48	69.	0.97	141.	0.52	75.	0.84	121.
0.75	1.50	0.41	59.	1.09	158.	0.53	78.	1.09	159.	0.62	89.	1.11	161.	0.65	95.	0.98	142.
0.75	1.75	0.54	79.	1.22	178.	0.67	97.	1.23	178.	0.75	109.	1.24	180.	0.79	114.	1.11	161.
1.00	1.00	0.28	40.	0.77	112.	0.35	50.	0.97	141.	0.44	64.	1.09	158.	0.49	71.	0.92	133.
1.00	1.25	0.40	58.	1.12	162.	0.52	76.	1.26	183.	0.63	91.	1.28	185.	0.68	99.	1.11	160.
1.00	1.50	0.54	79.	1.44	209.	0.71	103.	1.44	210.	0.82	118.	1.46	213.	0.87	126.	1.29	187.
1.00	1.75	0.72	104.	1.62	235.	0.88	128.	1.62	235.	0.99	144.	1.64	238.	1.04	151.	1.47	213.
1.25	1.00	0.34	49.	0.95	138.	0.43	62.	1.20	174.	0.54	79.	1.34	195.	0.61	88.	1.13	164.
1.25	1.25	0.49	72.	1.38	200.	0.64	93.	1.55	226.	0.78	113.	1.58	229.	0.84	122.	1.37	198.
1.25	1.50	0.67	97.	1.78	258.	0.87	127.	1.78	259.	1.01	146.	1.81	263.	1.07	156.	1.60	232.
1.25	1.75	0.89	129.	2.00	290.	1.09	159.	2.00	291.	1.23	178.	2.03	295.	1.29	188.	1.82	264.
1.50	1.00	0.40	58.	1.12	163.	0.51	73.	1.42	205.	0.64	93.	1.59	231.	0.72	105.	1.34	194.
1.50	1.25	0.58	85.	1.63	237.	0.76	111.	1.84	267.	0.92	134.	1.87	271.	1.00	145.	1.62	235.
1.50	1.50	0.79	115.	2.10	305.	1.04	150.	2.11	307..	1.20	174.	2.14	311.	1.27	185.	1.89	275.
1.50	1.75	1.05	153.	2.36	343.	1.30	188.	2.37	345.	1.46	212.	2.40	349.	1.54	223.	2.15	313.
1.75	1.00	0.46	67.	1.29	187.	0.58	84.	1.62	235.	0.74	107.	1.82	264.	0.83	120.	1.54	223.
1.75	1.25	0.67	97.	1.87	271.	0.87	127.	2.11	306.	1.06	154.	2.14	311.	1.15	167.	1.86	270.
1.75	1.50	0.91	132.	2.41	350.	1.19	173.	2.42	352.	1.38	200.	2.46	357.	1.47	213.	2.18	316.
1.75	1.75	1.21	176.	2.71	394.	1.50	217.	2.73	396.	1.68	244.	2.76	401.	1.77	257.	2.48	360.
2.00	1.00	0.51	75.	1.44	209.	0.65	94.	1.82	264.	0.83	120.	2.04	296.	0.93	135.	1.72	250.
2.00	1.25	0.75	109.	2.09	304.	0.98	142.	2.36	343.	1.19	173.	2.40	349.	1.29	188.	2.09	303.
2.00	1.50	1.02	148.	2.70	392..	1.34	195.	2.72	395.	1.55	225.	2.76	401.	1.65	240.	2.45	355.
2.00	1.75	1.36	198.	3.05	442.	1.68	244.	3.07	445.	1.89	275.	3.11	451.	2.00	290.	2.79	405.
2.25	1.00	0.57	82.	1.59	230.	0.71	104.	2.00	290.	0.91	132.	2.25	326.	1.03	149.	1.90	276.
2.25	1.25	0.82	120.	2.31	335.	1.08	157.	2.60	378.	1.32	191.	2.65	385.	1.43	208.	2.30	334.
2.25	1.50	1.12	163.	2.98	432.	1.48	215.	3.00	436.	1.72	249.	3.05	443.	1.83	266.	2.70	392.
2.25	1.75	1.51	218.	3.36	488.	1.87	271.	3.38	491.	2.10	305.	3.43	498.	2.21	321.	3.09	448.
2.50	1.00	0.61	89.	1.72	250.	0.77	112.	2.17	315.	0.99	144.	2.44	354.	1.12	162.	2.06	299.
2.50	1.25	0.89	130.	2.50	363.	1.18	171.	2.83	410.	1.43	208.	2.88	418.	1.56	227.	2.51	364.
2.50	1.50	1.22	177.	3.24	470.	1.62	235.	3.27	474.	1.87	272.	3.32	482.	2.00	290.	2.94	427.
2.50	1.75	1.64	238.	3.66	531.	2.04	296.	3.69	535.	2.29	333.	3.74	543.	2.42	352.	3.37	488.
2.75	1.00	0.66	96.	1.84	268.	0.83	121.	2.33	338.	1.06	154.	2.62	380.	1.21	175.	2.22	322.
2.75	1.25	0.96	139.	2.69	390.	1.27	184.	3.04	441.	1.54	224.	3.10	449.	1.69	245.	2.70	392.
2.75	1.50	1.31	190.	3.48	505.	1.74	253.	3.51	510.	2.02	293.	3.57	518.	2.16	314.	3.17	461.
2.75	1.75	1.77	257.	3.94	571.	2.20	319.	3.97	576.	2.48	360.	4.03	585.	2.62	380.	3.63	527.
3.00	1.00	0.70	102.	1.96	285.	0.88	128.	2.47	359.	1.13	164.	2.78	404.	1.29	187.	2.36	343.
3.00	1.25	1.02	148.	2.86	415.	1.35	196.	3.23	469.	1.65	239.	3.30	478.	1.80	262.	2.88	417.
3.00	1.50	1.40	203.	3.70	537.	1.86	270.	3.74	543.	2.16	313.	3.81	553.	2.31	336.	3.39	492.
3.00	1.75	1.89	274.	4.19	609.	2.35	342.	4.23	615.	2.65	385.	4.30	624.	2.81	407.	3.88	563.

ORIENTATIONS : 67.5 & 112.5 & 247.5 & 292.5

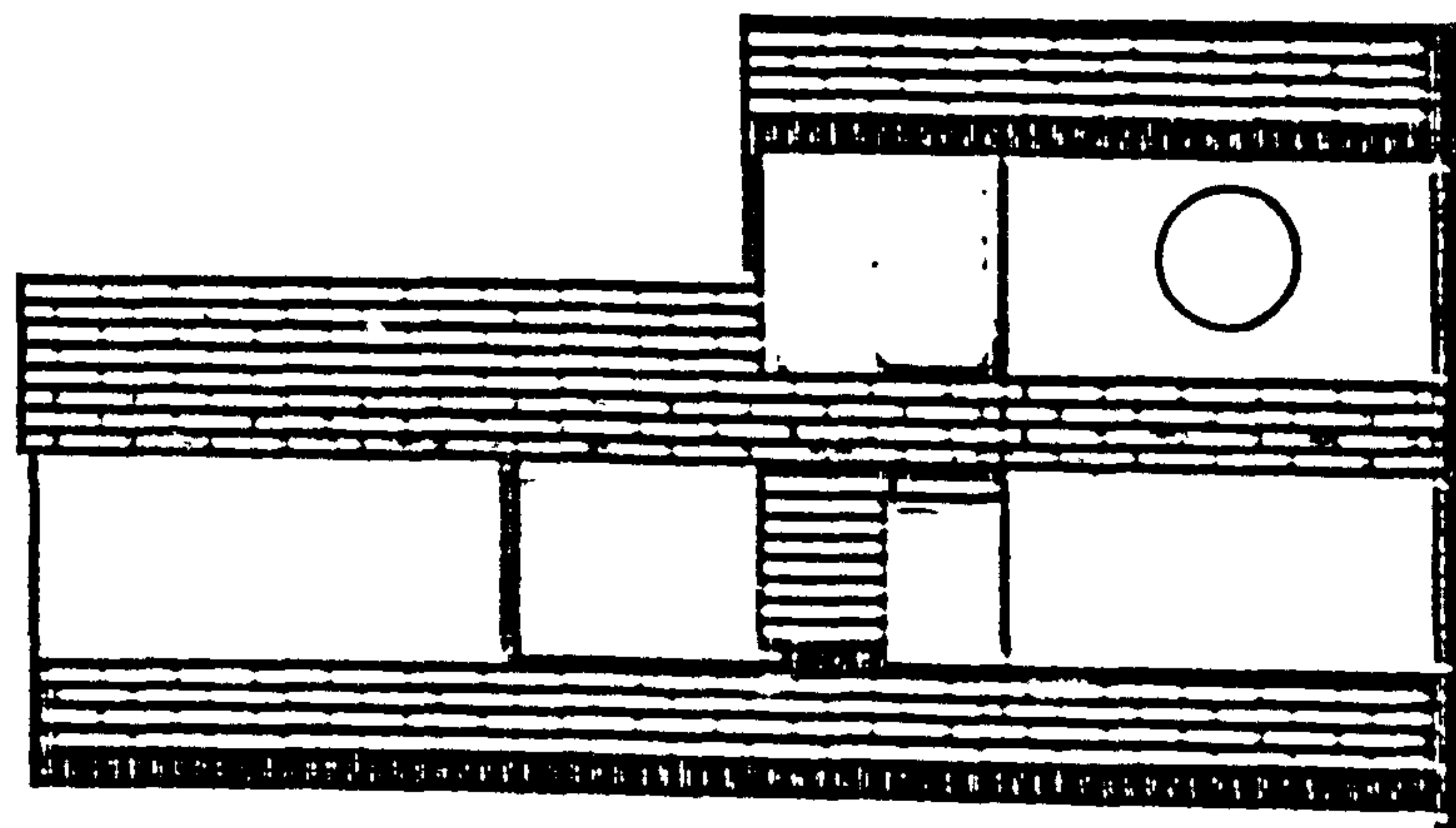
BEDROOM -2- WINDOW ON BACK WALL -FIRST FLOOR-
OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 4.M		INTER-HOUSE DIST. = 6.M		INTER-HOUSE DIST. = 8.M		INTER-HOUSE DIST. = 12.M							
		SKY+EXTERNAL 25%WALLREFL. FA %	LUX	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	SKY+EXTERNAL 25%WALLREFL. FA %	LUX						
0.50	1.00	0.16	24.	0.44	66.	0.19	29.	0.53	81.	0.22	33.	0.25	38.	0.48	73.
0.50	1.25	0.23	34.	0.64	96.	0.28	43.	0.69	104.	0.31	47.	0.35	53.	0.58	87.
0.50	1.50	0.30	46.	0.81	123.	0.38	57.	0.78	118.	0.41	62.	0.44	67.	0.67	101.
0.50	1.75	0.40	60.	0.91	137.	0.47	71.	0.87	132.	0.50	75.	0.54	81.	0.76	115.
0.75	1.00	0.23	35.	0.65	99.	0.28	43.	0.79	120.	0.32	49.	0.38	57.	0.72	108.
0.75	1.25	0.34	51.	0.95	143.	0.42	63.	1.02	155.	0.47	70.	0.52	79.	0.86	130.
0.75	1.50	0.45	69.	1.21	184.	0.56	85.	1.16	176.	0.61	92.	0.66	100.	1.00	151.
0.75	1.75	0.59	89.	1.35	204.	0.70	105.	1.30	197.	0.74	112.	0.80	121.	1.14	172.
1.00	1.00	0.31	46.	0.86	130.	0.37	57.	1.05	159.	0.43	64.	0.50	76.	0.94	143.
1.00	1.25	0.45	67.	1.25	189.	0.55	84.	1.35	204.	0.61	93.	0.69	104.	1.13	171.
1.00	1.50	0.60	91.	1.60	242.	0.74	112.	1.54	233.	0.80	121.	0.88	133.	1.32	200.
1.00	1.75	0.78	118.	1.78	270.	0.92	139.	1.72	260.	0.98	149.	1.06	160.	1.50	227.
1.25	1.00	0.38	57.	1.06	161.	0.46	70.	1.29	196.	0.53	79.	0.62	94.	1.17	176.
1.25	1.25	0.55	83.	1.54	233.	0.68	104.	1.67	252.	0.76	115.	0.85	129.	1.40	212.
1.25	1.50	0.74	112.	1.98	299.	0.92	139.	1.90	287.	0.99	150.	1.09	164.	1.63	247.
1.25	1.75	0.96	146.	2.20	333.	1.14	173.	2.12	321.	1.22	184.	1.31	198.	1.86	281.
1.50	1.00	0.45	68.	1.25	190.	0.55	83.	1.53	231.	0.62	94.	0.73	111.	1.38	208.
1.50	1.25	0.65	98.	1.82	275.	0.81	122.	1.97	298.	0.90	136.	1.01	153.	1.66	251.
1.50	1.50	0.88	133.	2.34	354.	1.09	164.	2.25	340.	1.18	178.	1.29	195.	1.93	292.
1.50	1.75	1.14	173.	2.61	394.	1.35	205.	2.51	380.	1.44	218.	1.56	235.	2.20	333.
1.75	1.00	0.51	78.	1.44	217.	0.63	95.	1.75	265.	0.71	108.	0.84	127.	1.58	239.
1.75	1.25	0.75	113.	2.09	316.	0.93	141.	2.26	342.	1.03	156.	1.16	176.	1.90	288.
1.75	1.50	1.01	152.	2.68	406.	1.25	189.	2.58	390.	1.35	205.	1.48	224.	2.22	336.
1.75	1.75	1.31	199.	2.99	453.	1.56	236.	2.89	437.	1.66	251.	1.79	271.	2.53	383.
2.00	1.00	0.57	87.	1.61	243.	0.70	106.	1.96	297.	0.80	121.	0.94	143.	1.77	268.
2.00	1.25	0.84	126.	2.34	354.	1.04	158.	2.53	383.	1.16	176.	1.31	198.	2.13	323.
2.00	1.50	1.13	171.	3.01	455.	1.40	212.	2.89	438.	1.52	230.	1.67	253.	2.50	378.
2.00	1.75	1.48	223.	3.36	508.	1.75	265.	3.24	491.	1.87	283.	2.02	305.	2.84	430.
2.25	1.00	0.63	96.	1.77	268.	0.77	117.	2.16	326.	0.88	133.	1.04	158.	1.95	295.
2.25	1.25	0.92	139.	2.58	390.	1.15	174.	2.79	422.	1.28	194.	1.45	219.	2.35	356.
2.25	1.50	1.24	188.	3.32	502.	1.35	233.	3.17	483.	1.68	233.	1.85	279.	2.76	417.
2.25	1.75	1.63	247.	3.70	560.	1.74	273.	3.38	541.	2.07	313.	2.23	338.	3.14	476.
2.50	1.00	0.69	104.	1.92	291.	0.84	126.	2.34	354.	0.96	145.	1.13	172.	2.12	321.
2.50	1.25	1.00	151.	2.80	423.	1.25	187.	3.03	458.	1.40	211.	1.58	238.	2.56	387.
2.50	1.50	1.35	204.	3.60	545.	1.69	256.	3.47	525.	1.84	278.	2.01	305.	3.00	454.
2.50	1.75	1.78	267.	4.03	610.	2.11	320.	3.70	587.	2.28	342.	2.44	369.	3.43	518.
2.75	1.00	0.74	111.	2.06	312.	0.90	136.	2.51	380.	1.03	155.	1.22	185.	2.28	344.
2.75	1.25	1.07	162.	3.00	434.	1.34	204.	3.23	472.	1.50	227.	1.70	257.	2.75	417.
2.75	1.50	1.45	220.	3.87	586.	1.82	275.	3.73	564.	1.98	299.	2.17	329.	3.23	489.
2.75	1.75	1.91	290.	4.33	656.	2.28	345.	4.19	634.	2.44	369.	2.64	399.	3.69	559.
3.00	1.00	0.78	118.	2.19	331.	0.95	144.	2.67	404.	1.09	165.	1.30	197.	2.42	366.
3.00	1.25	1.14	172.	3.19	483.	1.43	216.	3.46	523.	1.60	243.	1.81	274.	2.93	444.
3.00	1.50	1.55	234.	4.12	623.	1.94	294.	3.97	601.	2.11	320.	2.32	352.	3.44	521.
3.00	1.75	2.04	309.	4.62	698.	2.44	369.	4.47	676.	2.61	395.	2.82	427.	3.94	596.

ORIENTATIONS: EAST & WEST
 WINDOW ON BACK WALL -FIRST FLOOR-
 POINT DIST. 2.5000

BEDROOM -2-
 OBST.HIGHT 4.50

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 4.M			INTER-HOUSE DIST. = 6.M			INTER-HOUSE DIST. = 8.M			INTER-HOUSE DIST. = 12.M		
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FA %
0.50	1.00	0.17	26.	0.47	72.	0.20	31.	0.56	86.	0.23	35.	0.56	86.
0.50	1.25	0.24	37.	0.68	104.	0.29	45.	0.72	110.	0.32	49.	0.66	100.
0.50	1.50	0.33	50.	0.87	134.	0.39	59.	0.81	124.	0.42	64.	0.75	115.
0.50	1.75	0.42	64.	0.97	148.	0.48	73.	0.90	138.	0.51	78.	0.84	129.
0.75	1.00	0.25	38.	0.70	107.	0.30	46.	0.83	127.	0.34	51.	0.83	127.
0.75	1.25	0.36	56.	1.02	155.	0.44	67.	1.07	164.	0.48	73.	0.98	149.
0.75	1.50	0.49	74.	1.30	199.	0.58	88.	1.21	185.	0.62	95.	1.12	171.
0.75	1.75	0.62	95.	1.44	220.	0.71	109.	1.35	206.	0.76	116.	1.26	192.
1.00	1.00	0.33	50.	0.92	141.	0.39	60.	1.10	168.	0.44	68.	1.10	168.
1.00	1.25	0.48	73.	1.34	205.	0.58	88.	1.41	216.	0.63	97.	1.29	197.
1.00	1.50	0.64	98.	1.72	263.	0.76	117.	1.60	245.	0.82	126.	1.48	226.
1.00	1.75	0.82	126.	1.90	291.	0.95	145.	1.78	272.	1.00	153.	1.66	254.
1.25	1.00	0.41	62.	1.14	174.	0.48	74.	1.36	207.	0.55	84.	1.36	208.
1.25	1.25	0.59	90.	1.66	253.	0.71	109.	1.74	266.	0.78	120.	1.59	243.
1.25	1.50	0.79	121.	2.12	325.	0.94	144.	1.98	302.	1.02	155.	1.83	279.
1.25	1.75	1.02	156.	2.35	359.	1.17	179.	2.20	337.	1.24	190.	2.05	314.
1.50	1.00	0.48	74.	1.35	206.	0.57	88.	1.60	245.	0.65	99.	1.60	245.
1.50	1.25	0.70	107.	1.96	299.	0.84	129.	2.06	315.	0.93	142.	1.88	288.
1.50	1.50	0.94	143.	2.51	384.	1.12	171.	2.34	357.	1.20	184.	2.16	330.
1.50	1.75	1.21	184.	2.78	425.	1.39	212.	2.60	398.	1.47	225.	2.43	371.
1.75	1.00	0.55	84.	1.54	236.	0.66	100.	1.84	281.	0.74	114.	1.84	281.
1.75	1.25	0.80	122.	2.24	343.	0.97	148.	2.36	361.	1.06	163.	2.16	330.
1.75	1.50	1.08	164.	2.88	440.	1.29	197.	2.68	410.	1.39	212.	2.48	379.
1.75	1.75	1.39	212.	3.19	488.	1.60	244.	2.99	457.	1.70	259.	2.79	427.
2.00	1.00	0.62	94.	1.73	264.	0.73	112.	2.06	314.	0.83	127.	2.06	315.
2.00	1.25	0.90	137.	2.51	384.	1.08	166.	2.65	405.	1.20	183.	2.42	370.
2.00	1.50	1.21	184.	3.23	494.	1.44	221.	3.01	460.	1.56	238.	2.78	426.
2.00	1.75	1.56	238.	3.58	547.	1.80	275.	3.36	514.	1.91	292.	3.13	479.
2.25	1.00	0.68	104.	1.90	291.	0.81	124.	2.26	346.	0.92	140.	2.27	345.
2.25	1.25	0.99	151.	2.77	423.	1.19	183.	2.91	446.	1.32	202.	2.67	408.
2.25	1.50	1.33	203.	3.56	544.	1.60	244.	3.32	507.	1.72	263.	3.07	469.
2.25	1.75	1.72	263.	3.95	604.	1.98	304.	3.71	567.	2.11	323.	3.46	529.
2.50	1.00	0.74	113.	2.06	316.	0.88	134.	2.45	375.	1.00	152.	2.46	376.
2.50	1.25	1.07	164.	3.00	437.	1.30	178.	3.16	484.	1.44	220.	2.70	443.
2.50	1.50	1.44	221.	3.86	591.	1.74	266.	3.60	551.	1.88	287.	3.34	511.
2.50	1.75	1.87	286.	4.29	656.	2.16	331.	4.03	617.	2.30	352.	3.77	576.
2.75	1.00	0.79	121.	2.21	339.	0.94	144.	2.63	403.	1.07	164.	2.64	403.
2.75	1.25	1.15	176.	3.22	493.	1.39	213.	3.40	520.	1.55	236.	3.11	476.
2.75	1.50	1.55	237.	4.15	635.	1.87	286.	3.87	593.	2.02	309.	3.59	549.
2.75	1.75	2.02	308.	4.61	706.	2.33	357.	4.34	663.	2.49	380.	4.05	620.
3.00	1.00	0.84	128.	2.35	360.	1.00	153.	2.80	428.	1.14	174.	2.80	429.
3.00	1.25	1.22	187.	3.43	524.	1.48	227.	3.61	553.	1.65	252.	3.31	507.
3.00	1.50	1.65	253.	4.42	676.	2.00	305.	4.12	631.	2.16	330.	3.82	585.
3.00	1.75	2.15	329.	4.91	752.	2.49	381.	4.62	707.	2.66	406.	4.32	661.

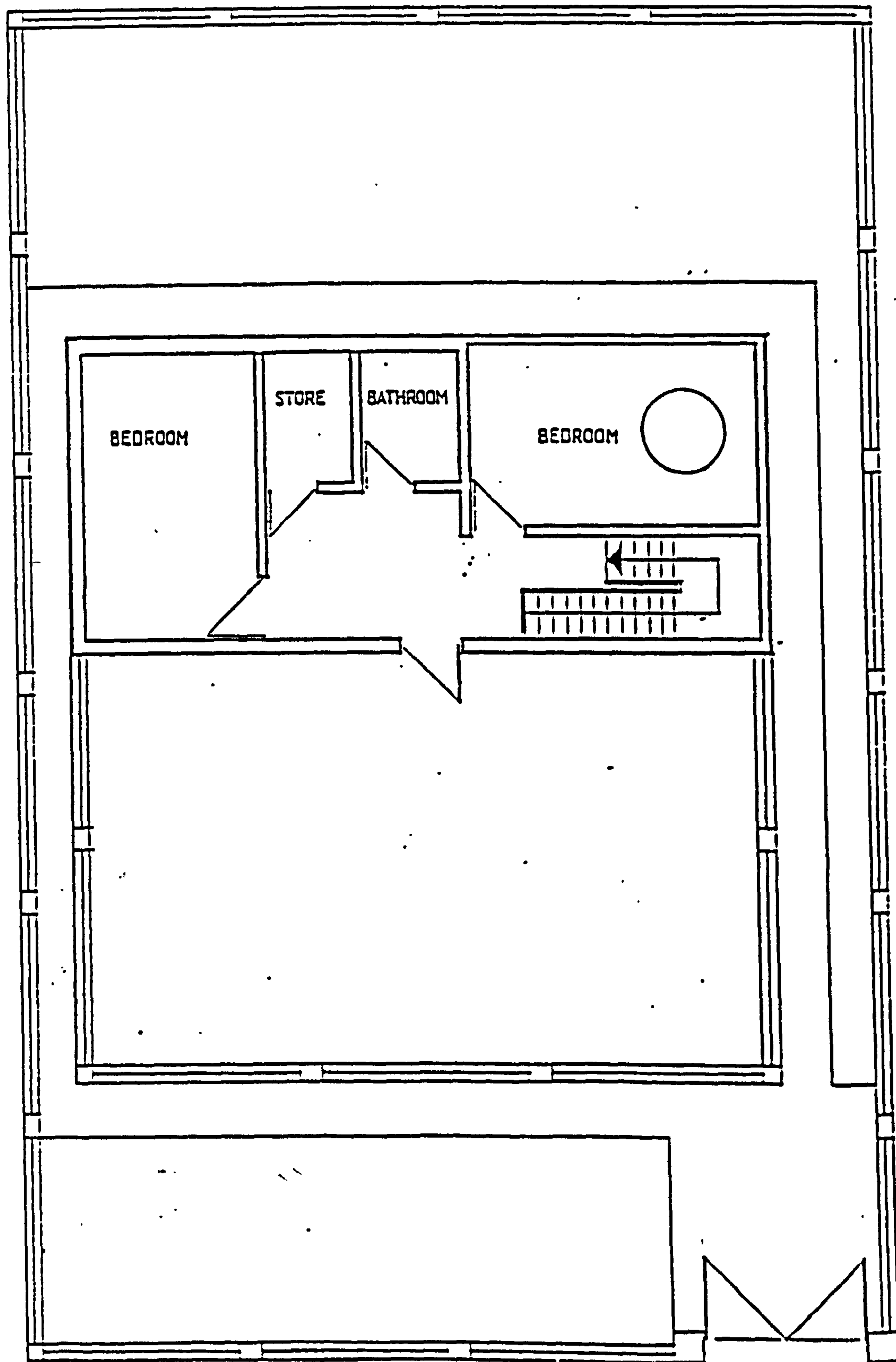


Key diagram showing the location
of window data .



Side Wall No.
1 1/2 Storey

Interhouse Distance
1, 2, 3 and 4m.



FIRST FLOOR PLAN

ORIENTATIONS: NORTH & SOUTH
 BEDROOM-3- WINDOW ON SIDE WALL -FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ				
0.50	1.00	0.03	3.	0.07	9.	0.05	6.	0.14	18.	0.07	9.	0.20	26.	0.09	12.	0.26	34.
0.50	1.25	0.04	5.	0.10	13.	0.07	9.	0.20	26.	0.10	13.	0.29	38.	0.14	17.	0.38	49.
0.50	1.50	0.05	6.	0.14	18.	0.09	12.	0.26	34.	0.14	18.	0.39	50.	0.19	24.	0.50	64.
0.50	1.75	0.06	8.	0.17	22.	0.12	15.	0.33	42.	0.18	23.	0.48	62.	0.28	36.	0.58	75.
0.75	1.00	0.04	5.	0.11	14.	0.07	9.	0.20	26.	0.11	14.	0.30	39.	0.14	18.	0.39	50.
0.75	1.25	0.06	7.	0.16	20.	0.11	14.	0.30	38.	0.16	20.	0.44	56.	0.20	26.	0.57	73.
0.75	1.50	0.07	9.	0.21	27.	0.14	18.	0.39	50.	0.21	26.	0.58	74.	0.28	36.	0.74	95.
0.75	1.75	0.09	12.	0.26	33.	0.17	22.	0.49	63.	0.27	35.	0.71	92.	0.41	53.	0.87	111.
1.00	1.00	0.05	7.	0.14	18.	0.10	12.	0.27	35.	0.14	18.	0.40	51.	0.18	24.	0.51	66.
1.00	1.25	0.07	9.	0.21	26.	0.14	18.	0.39	50.	0.21	26.	0.57	74.	0.27	34.	0.75	96.
1.00	1.50	0.10	13.	0.27	35.	0.18	24.	0.52	66.	0.27	35.	0.76	98.	0.37	48.	0.97	125.
1.00	1.75	0.12	16.	0.34	44.	0.23	29.	0.64	83.	0.36	46.	0.94	121.	0.55	70.	1.15	147.
1.25	1.00	0.06	8.	0.18	22.	0.12	15.	0.33	43.	0.17	22.	0.49	63.	0.23	29.	0.63	81.
1.25	1.25	0.09	12.	0.25	33.	0.17	22.	0.48	62.	0.25	33.	0.71	91.	0.33	42.	0.92	118.
1.25	1.50	0.12	15.	0.34	43.	0.23	29.	0.64	82.	0.34	43.	0.94	121.	0.46	59.	1.20	154.
1.25	1.75	0.15	19.	0.42	54.	0.28	36.	0.79	102.	0.44	57.	1.17	150.	0.68	87.	1.42	182.
1.50	1.00	0.07	9.	0.21	27.	0.14	18.	0.39	50.	0.21	26.	0.58	74.	0.28	36.	0.75	97.
1.50	1.25	0.11	14.	0.30	39.	0.20	26.	0.57	73.	0.30	38.	0.84	108.	0.40	52.	1.09	140.
1.50	1.50	0.14	18.	0.40	51.	0.27	35.	0.76	97.	0.40	51.	1.11	143.	0.56	72.	1.43	183.
1.50	1.75	0.18	23.	0.50	64.	0.34	43.	0.94	121.	0.52	67.	1.38	177.	0.82	105.	1.68	216.
1.75	1.00	0.08	11.	0.24	30.	0.16	21.	0.45	58.	0.24	31.	0.67	85.	0.37	47.	0.88	112.
1.75	1.25	0.12	16.	0.34	44.	0.23	30.	0.65	84.	0.36	46.	0.97	124.	0.53	68.	1.27	163.
1.75	1.50	0.16	21.	0.46	59.	0.31	40.	0.87	111.	0.47	60.	1.28	164.	0.72	93.	1.65	212.
1.75	1.75	0.20	26.	0.57	73.	0.39	49.	1.08	139.	0.62	79.	1.59	204.	1.02	131.	1.95	250.
2.00	1.00	0.09	12.	0.27	34.	0.18	23.	0.50	65.	0.33	42.	0.77	99.	0.45	58.	1.00	128.
2.00	1.25	0.14	18.	0.39	50.	0.26	34.	0.73	94.	0.47	60.	1.12	143.	0.65	83.	1.43	184.
2.00	1.50	0.18	23.	0.51	66.	0.35	45.	0.97	125.	0.62	79.	1.48	190.	0.88	113.	1.87	240.
2.00	1.75	0.23	29.	0.64	82.	0.43	56.	1.21	155.	0.80	102.	1.83	235.	1.22	156.	2.20	283.
2.25	1.00	0.10	13.	0.29	38.	0.23	30.	0.58	74.	0.41	52.	0.88	113.	0.54	69.	1.11	143.
2.25	1.25	0.15	19.	0.43	55.	0.34	43.	0.84	108.	0.58	75.	1.26	162.	0.76	98.	1.60	205.
2.25	1.50	0.20	26.	0.56	72.	0.45	57.	1.11	143.	0.76	97.	1.67	214.	1.03	133.	2.08	267.
2.25	1.75	0.25	32.	0.70	90.	0.55	71.	1.39	178.	0.97	125.	2.06	265.	1.41	181.	2.45	315.
2.50	1.00	0.11	15.	0.32	41.	0.31	39.	0.67	86.	0.48	62.	0.98	125.	0.62	79.	1.22	157.
2.50	1.25	0.16	21.	0.46	59.	0.44	56.	0.96	124.	0.69	88.	1.40	180.	0.88	113.	1.75	225.
2.50	1.50	0.22	28.	0.61	79.	0.58	74.	1.27	164.	0.90	115.	1.85	237.	1.18	152.	2.28	292.
2.50	1.75	0.27	35.	0.77	98.	0.71	91.	1.58	203.	1.14	146.	2.28	293.	1.60	205.	2.69	346.
2.75	1.00	0.14	17.	0.35	45.	0.38	48.	0.75	97.	0.56	71.	1.07	137.	0.69	89.	1.32	170.
2.75	1.25	0.20	25.	0.51	66.	0.54	69.	1.08	139.	0.79	102.	1.54	197.	0.99	126.	1.90	244.
2.75	1.50	0.26	34.	0.68	87.	0.70	77.	1.43	183.	1.03	132.	2.02	260.	1.32	170.	2.47	317.
2.75	1.75	0.33	42.	0.85	109.	0.87	111.	1.77	227.	1.31	168.	2.50	321.	1.77	228.	2.92	375.
3.00	1.00	0.20	26.	0.42	54.	0.44	57.	0.83	107.	0.63	81.	1.16	149.	0.77	99.	1.42	182.
3.00	1.25	0.29	37.	0.61	79.	0.63	81.	1.20	154.	0.89	114.	1.66	214.	1.09	140.	2.04	262.
3.00	1.50	0.38	48.	0.81	104.	0.82	106.	1.58	202.	1.16	149.	2.19	281.	1.46	187.	2.65	340.
3.00	1.75	0.47	60.	1.01	129.	1.01	130.	1.95	251.	1.46	188.	2.70	347.	1.95	250.	3.14	403.

ORIENTATIONS : 22.5 & 157.5 & 202.5 & 337.5

BEDROOM-3- WINDOW ON SIDE WALL -FIRST FLOOR
OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST.= 1.M			INTER-HOUSE DIST.= 2.M			INTER-HOUSE DIST.= 3.M			INTER-HOUSE DIST.= 4.M		
		SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ
0.50	1.00	0.03	4.	0.07	10.	0.16	8.	0.08	11.	0.22	31.	0.10	14.
0.50	1.25	0.04	5.	0.10	15.	0.23	11.	0.11	16.	0.32	45.	0.15	21.
0.50	1.50	0.05	7.	0.14	20.	0.30	14.	0.15	21.	0.42	60.	0.20	29.
0.50	1.75	0.06	9.	0.17	24.	0.37	19.	0.20	28.	0.52	74.	0.29	41.
0.75	1.00	0.04	5.	0.11	15.	0.23	12.	0.12	17.	0.33	47.	0.15	21.
0.75	1.25	0.06	8.	0.16	22.	0.34	17.	0.17	24.	0.48	67.	0.22	31.
0.75	1.50	0.07	10.	0.21	29.	0.45	23.	0.23	32.	0.63	89.	0.30	43.
0.75	1.75	0.09	13.	0.26	36.	0.56	28.	0.29	42.	0.78	110.	0.43	61.
1.00	1.00	0.05	7.	0.14	20.	0.31	16.	0.16	22.	0.43	61.	0.20	28.
1.00	1.25	0.07	10.	0.21	29.	0.45	23.	0.23	32.	0.63	89.	0.29	40.
1.00	1.50	0.10	14.	0.27	39.	0.59	30.	0.30	42.	0.83	118.	0.40	56.
1.00	1.75	0.12	17.	0.34	48.	0.74	37.	0.39	55.	1.03	146.	0.57	81.
1.25	1.00	0.06	9.	0.18	25.	0.38	19.	0.19	27.	0.54	76.	0.24	34.
1.25	1.25	0.09	13.	0.25	36.	0.55	28.	0.28	39.	0.78	110.	0.35	50.
1.25	1.50	0.12	17.	0.34	48.	0.73	37.	0.37	52.	1.03	146.	0.49	70.
1.25	1.75	0.15	21.	0.42	59.	0.91	46.	0.48	68.	1.28	180.	0.71	101.
1.50	1.00	0.07	10.	0.21	29.	0.45	23.	0.23	32.	0.63	89.	0.30	42.
1.50	1.25	0.11	15.	0.30	42.	0.65	33.	0.33	46.	0.92	130.	0.43	61.
1.50	1.50	0.14	20.	0.40	56.	0.86	44.	0.44	62.	1.22	172.	0.60	85.
1.50	1.75	0.18	25.	0.50	70.	1.07	57.	0.57	89.	1.51	213.	0.86	121.
1.75	1.00	0.08	12.	0.24	33.	0.51	26.	0.27	38.	0.73	103.	0.38	54.
1.75	1.25	0.12	17.	0.34	49.	0.75	38.	0.39	55.	1.06	150.	0.55	78.
1.75	1.50	0.16	23.	0.46	65.	0.99	50.	0.51	73.	1.40	198.	0.76	107.
1.75	1.75	0.20	29.	0.57	80.	1.23	62.	0.67	95.	1.74	246.	1.06	150.
2.00	1.00	0.09	13.	0.27	38.	0.58	29.	0.35	49.	0.84	118.	0.47	66.
2.00	1.25	0.14	17.	0.37	53.	0.84	42.	0.50	71.	1.21	171.	0.67	95.
2.00	1.50	0.18	26.	0.51	72.	1.11	56.	0.66	93.	1.60	226.	0.91	129.
2.00	1.75	0.23	32.	0.64	90.	1.38	70.	0.85	120.	1.98	280.	1.25	177.
2.25	1.00	0.10	15.	0.29	41.	0.65	37.	0.42	60.	0.94	133.	0.55	77.
2.25	1.25	0.15	21.	0.43	60.	0.95	53.	0.61	86.	1.36	192.	0.78	111.
2.25	1.50	0.20	28.	0.56	80.	1.25	70.	0.80	113.	1.79	253.	1.06	150.
2.25	1.75	0.25	36.	0.70	100.	1.57	87.	1.02	144.	2.22	313.	1.44	204.
2.50	1.00	0.11	16.	0.32	45.	0.74	46.	0.50	70.	1.04	147.	0.63	88.
2.50	1.25	0.16	23.	0.46	65.	1.07	67.	0.71	100.	1.50	211.	0.89	126.
2.50	1.50	0.22	31.	0.61	87.	1.42	88.	0.93	132.	1.97	279.	1.20	170.
2.50	1.75	0.27	39.	0.77	108.	1.77	109.	1.19	168.	2.44	345.	1.62	229.
2.75	1.00	0.13	19.	0.35	50.	0.82	56.	0.57	80.	1.13	160.	0.70	99.
2.75	1.25	0.20	28.	0.51	72.	1.19	80.	0.81	114.	1.63	230.	1.09	141.
2.75	1.50	0.26	37.	0.68	96.	1.57	105.	1.06	150.	2.15	304.	1.34	190.
2.75	1.75	0.32	46.	0.85	120.	1.95	130.	1.35	190.	2.65	375.	1.80	254.
3.00	1.00	0.19	27.	0.42	59.	0.90	65.	0.63	89.	1.22	172.	0.77	109.
3.00	1.25	0.28	39.	0.60	85.	1.30	93.	0.90	128.	1.75	248.	1.10	155.
3.00	1.50	0.37	52.	0.80	113.	1.72	122.	1.18	167.	2.31	327.	1.47	208.
3.00	1.75	0.46	65.	1.00	141.	2.14	150.	1.50	212.	2.86	404.	1.96	277.

ORIENTATIONS : 45.0 & 135.0 & 225.0 & 315.0

BEDROOM-3- WINDOW ON SIDE WALL -FIRST FLOOR
OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FA %				
0.50	1.00	0.03	5.	0.09	13.	0.06	8.	0.16	23.	0.09	13.	0.25	37.	0.09	13.	0.26	37.
0.50	1.25	0.05	7.	0.13	19.	0.08	12.	0.23	33.	0.13	19.	0.37	53.	0.13	19.	0.37	54.
0.50	1.50	0.06	9.	0.18	26.	0.11	16.	0.30	44.	0.17	25.	0.49	71.	0.19	27.	0.48	70.
0.50	1.75	0.08	11.	0.22	32.	0.13	19.	0.37	54.	0.22	33.	0.60	87.	0.28	40.	0.57	83.
0.75	1.00	0.05	7.	0.14	20.	0.08	12.	0.23	34.	0.13	20.	0.38	55.	0.14	20.	0.38	55.
0.75	1.25	0.07	10.	0.20	29.	0.12	18.	0.34	49.	0.20	28.	0.55	80.	0.20	29.	0.55	80.
0.75	1.50	0.09	14.	0.26	38.	0.16	23.	0.45	65.	0.26	38.	0.73	105.	0.28	40.	0.72	105.
0.75	1.75	0.12	17.	0.33	47.	0.20	29.	0.56	81.	0.33	49.	0.89	130.	0.41	60.	0.85	124.
1.00	1.00	0.06	9.	0.18	26.	0.11	16.	0.31	45.	0.18	26.	0.50	72.	0.18	26.	0.50	73.
1.00	1.25	0.09	14.	0.26	38.	0.16	23.	0.45	65.	0.26	37.	0.72	105.	0.26	38.	0.73	106.
1.00	1.50	0.12	18.	0.35	50.	0.21	31.	0.59	86.	0.34	50.	0.96	139.	0.37	53.	0.95	138.
1.00	1.75	0.15	22.	0.43	63.	0.26	36.	0.74	107.	0.44	64.	1.18	171.	0.54	79.	1.13	164.
1.25	1.00	0.08	12.	0.22	32.	0.14	20.	0.38	55.	0.22	32.	0.61	89.	0.22	32.	0.62	90.
1.25	1.25	0.12	17.	0.32	47.	0.20	29.	0.55	80.	0.32	46.	0.89	130.	0.32	47.	0.90	130.
1.25	1.50	0.15	22.	0.43	62.	0.26	38.	0.73	106.	0.42	61.	1.18	172.	0.45	66.	1.17	170.
1.25	1.75	0.19	28.	0.53	77.	0.32	47.	0.91	132.	0.55	79.	1.46	212.	0.67	98.	1.39	202.
1.50	1.00	0.09	14.	0.26	38.	0.16	23.	0.45	65.	0.26	38.	0.73	105.	0.27	39.	0.73	106.
1.50	1.25	0.14	20.	0.38	55.	0.23	34.	0.65	94.	0.38	55.	1.05	153.	0.39	57.	1.06	154.
1.50	1.50	0.18	26.	0.51	73.	0.31	45.	0.86	125.	0.50	72.	1.40	203.	0.55	80.	1.39	202.
1.50	1.75	0.23	33.	0.63	91.	0.38	56.	1.07	156.	0.65	94.	1.73	250.	0.81	118.	1.65	240.
1.75	1.00	0.11	16.	0.30	44.	0.18	27.	0.51	75.	0.30	44.	0.83	121.	0.35	51.	0.85	123.
1.75	1.25	0.16	23.	0.44	64.	0.27	37.	0.75	108.	0.44	64.	1.21	176.	0.51	74.	1.23	179.
1.75	1.50	0.21	30.	0.58	84.	0.35	51.	0.99	144.	0.59	85.	1.61	233.	0.71	102.	1.61	233.
1.75	1.75	0.26	37.	0.72	105.	0.44	64.	1.23	179.	0.76	110.	1.98	288.	1.01	147.	1.91	277.
2.00	1.00	0.12	17.	0.34	49.	0.21	30.	0.58	83.	0.39	56.	0.95	137.	0.44	63.	0.96	140.
2.00	1.25	0.18	25.	0.49	71.	0.30	43.	0.84	121.	0.56	81.	1.37	199.	0.62	90.	1.39	202.
2.00	1.50	0.23	34.	0.65	95.	0.40	58.	1.11	161.	0.73	106.	1.82	264.	0.86	124.	1.82	264.
2.00	1.75	0.29	42.	0.81	118.	0.49	72.	1.38	201.	0.94	136.	2.24	325.	1.20	174.	2.16	313.
2.25	1.00	0.13	19.	0.37	54.	0.26	38.	0.65	95.	0.46	67.	1.05	153.	0.51	74.	1.07	156.
2.25	1.25	0.19	28.	0.54	78.	0.37	54.	0.95	138.	0.67	97.	1.53	221.	0.73	106.	1.55	224.
2.25	1.50	0.26	37.	0.72	104.	0.49	72.	1.26	182.	0.88	127.	2.02	293.	1.00	145.	2.02	293.
2.25	1.75	0.32	46.	0.89	130.	0.61	89.	1.57	227.	1.11	162.	2.49	361.	1.38	201.	2.40	348.
2.50	1.00	0.14	21.	0.40	58.	0.33	47.	0.74	107.	0.54	78.	1.16	168.	0.59	85.	1.17	170.
2.50	1.25	0.21	30.	0.59	85.	0.47	68.	1.07	155.	0.77	112.	1.67	243.	0.84	122.	1.69	246.
2.50	1.50	0.28	40.	0.78	113.	0.62	90.	1.42	206.	1.01	147.	2.21	321.	1.14	165.	2.21	320.
2.50	1.75	0.35	50.	0.97	141.	0.77	111.	1.76	256.	1.28	186.	2.72	395.	1.56	226.	2.63	381.
2.75	1.00	0.17	24.	0.44	64.	0.39	57.	0.82	119.	0.61	88.	1.25	182.	0.66	95.	1.27	184.
2.75	1.25	0.24	35.	0.64	93.	0.56	82.	1.19	172.	0.87	126.	1.81	263.	0.94	136.	1.83	266.
2.75	1.50	0.32	47.	0.86	124.	0.74	107.	1.57	228.	1.14	166.	2.39	347.	1.27	184.	2.39	346.
2.75	1.75	0.40	58.	1.07	155.	0.92	133.	1.95	283.	1.45	210.	2.95	428.	1.73	251.	2.84	413.
3.00	1.00	0.23	33.	0.51	74.	0.43	60.	0.70	130.	0.67	78.	1.34	173.	0.72	103.	1.36	198.
3.00	1.25	0.33	47.	0.74	107.	0.65	94.	1.29	188.	0.96	140.	1.94	282.	1.03	150.	1.96	285.
3.00	1.50	0.43	62.	0.98	142.	0.85	124.	1.71	248.	1.27	184.	2.56	372.	1.40	203.	2.56	371.
3.00	1.75	0.53	78.	1.22	177.	1.06	153.	2.13	309.	1.60	232.	3.16	459.	1.89	274.	3.05	443.

ORIENTATIONS : 67.5 & 112.5 & 247.5 & 292.5

BEDROOM-3- WINDOW ON SIDE WALL -FIRST FLOOR
OBST.HIGHT 4.50 POINT DIST. 2.5000

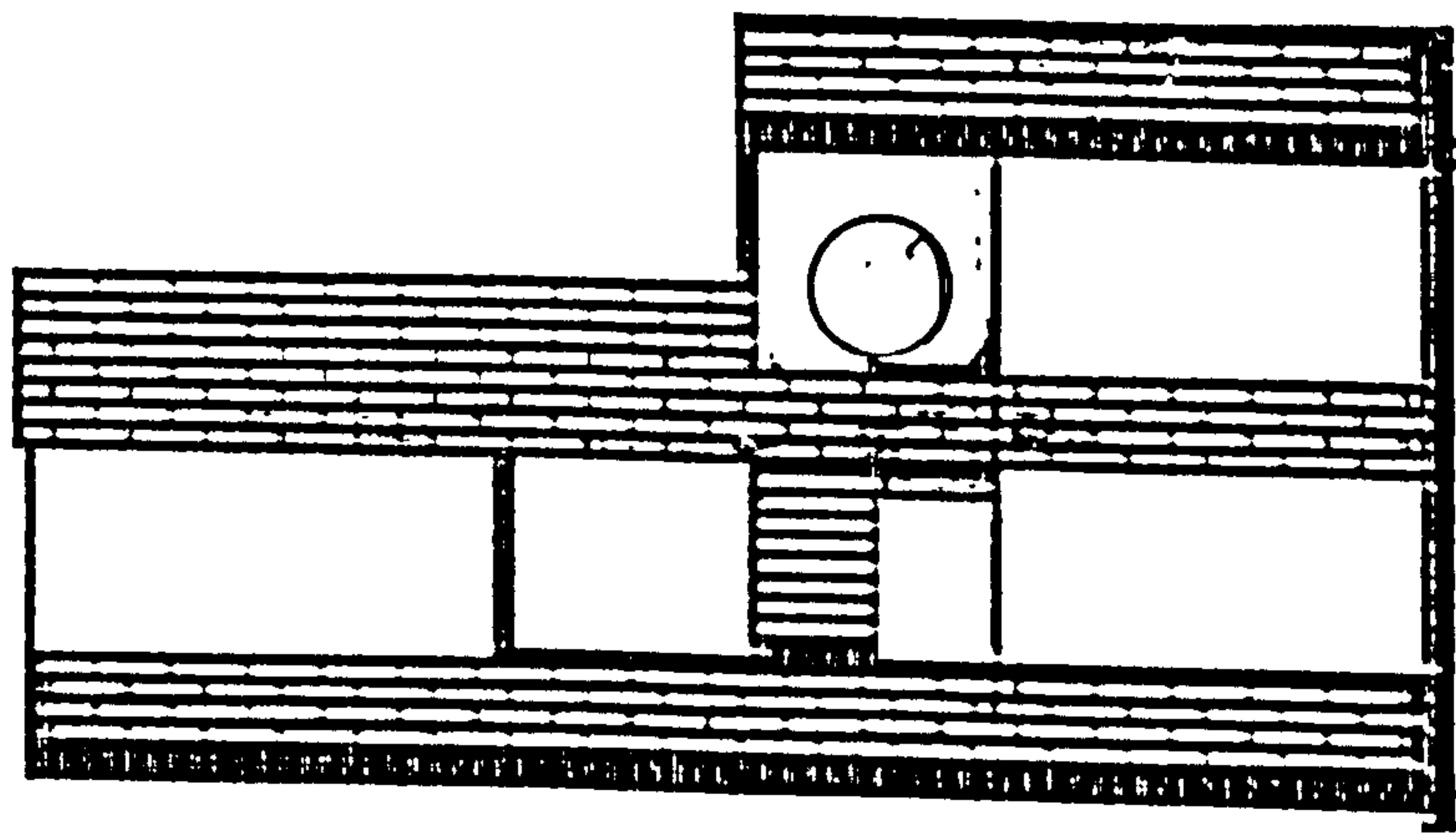
W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST.= 1.M			INTER-HOUSE DIST.= 2.M			INTER-HOUSE DIST.= 3.M			INTER-HOUSE DIST.= 4.M						
		SKY+EXTERNAL REFLECTION 70%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL REFLECTION 70%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL REFLECTION 70%WALLREFL. FA %	LUX	LUX	SKY+EXTERNAL REFLECTION 70%WALLREFL. FA %	LUX	LUX				
0.50	1.00	0.02	4.	0.07	10.	0.05	7.	0.13	20.	0.07	11.	0.20	30.	0.12	19.	0.35	52.
0.50	1.25	0.03	5.	0.10	14.	0.07	10.	0.19	29.	0.10	15.	0.28	43.	0.18	27.	0.50	76.
0.50	1.50	0.05	7.	0.13	19.	0.09	14.	0.25	38.	0.13	20.	0.37	57.	0.25	37.	0.65	98.
0.50	1.75	0.06	8.	0.16	24.	0.11	11.	0.31	47.	0.18	27.	0.47	70.	0.34	51.	0.74	112.
0.75	1.00	0.03	5.	0.10	15.	0.07	10.	0.19	29.	0.10	16.	0.29	44.	0.18	28.	0.52	78.
0.75	1.25	0.05	8.	0.14	21.	0.10	15.	0.28	43.	0.15	23.	0.42	64.	0.27	40.	0.75	113.
0.75	1.50	0.07	10.	0.19	28.	0.13	20.	0.37	56.	0.20	30.	0.56	84.	0.37	55.	0.97	146.
0.75	1.75	0.08	13.	0.23	35.	0.17	25.	0.46	70.	0.26	40.	0.69	105.	0.50	76.	1.10	167.
1.00	1.00	0.05	7.	0.13	20.	0.09	14.	0.26	39.	0.14	21.	0.38	58.	0.24	37.	0.68	103.
1.00	1.25	0.07	10.	0.19	28.	0.13	20.	0.37	56.	0.20	30.	0.56	84.	0.35	53.	0.99	149.
1.00	1.50	0.09	13.	0.25	38.	0.18	27.	0.49	75.	0.26	40.	0.74	111.	0.48	73.	1.28	193.
1.00	1.75	0.11	17.	0.31	47.	0.22	33.	0.61	93.	0.35	53.	0.92	139.	0.66	100.	1.46	221.
1.25	1.00	0.06	9.	0.16	24.	0.11	17.	0.32	48.	0.17	26.	0.47	71.	0.30	45.	0.84	127.
1.25	1.25	0.08	12.	0.23	35.	0.16	25.	0.46	69.	0.25	37.	0.69	104.	0.44	66.	1.22	184.
1.25	1.50	0.11	17.	0.31	46.	0.22	33.	0.61	92.	0.32	49.	0.91	138.	0.60	90.	1.58	239.
1.25	1.75	0.14	21.	0.38	58.	0.27	41.	0.76	114.	0.43	65.	1.13	171.	0.82	124.	1.80	272.
1.50	1.00	0.07	10.	0.19	28.	0.13	20.	0.37	57.	0.20	30.	0.56	84.	0.36	55.	0.99	150.
1.50	1.25	0.10	15.	0.27	41.	0.19	29.	0.54	82.	0.29	44.	0.81	123.	0.53	79.	1.44	217.
1.50	1.50	0.13	20.	0.36	55.	0.26	39.	0.72	109.	0.38	58.	1.07	163.	0.72	109.	1.86	281.
1.50	1.75	0.16	24.	0.45	68.	0.32	48.	0.90	135.	0.51	77.	1.34	202.	0.99	149.	2.13	322.
1.75	1.00	0.08	12.	0.22	33.	0.15	23.	0.43	65.	0.24	36.	0.64	97.	0.45	68.	1.12	170.
1.75	1.25	0.11	17.	0.31	47.	0.22	34.	0.62	94.	0.34	52.	0.93	141.	0.65	98.	1.63	246.
1.75	1.50	0.15	22.	0.42	63.	0.29	45.	0.83	125.	0.45	69.	1.24	187.	0.88	134.	2.11	319.
1.75	1.75	0.18	28.	0.52	78.	0.37	56.	1.03	155.	0.60	91.	1.54	233.	1.19	180.	2.42	365.
2.00	1.00	0.09	13.	0.24	37.	0.17	26.	0.48	73.	0.31	47.	0.74	112.	0.54	81.	1.25	190.
2.00	1.25	0.13	19.	0.35	53.	0.25	38.	0.70	105.	0.45	68.	1.07	163.	0.77	117.	1.81	274.
2.00	1.50	0.17	25.	0.47	71.	0.33	50.	0.93	140.	0.59	89.	1.42	215.	1.04	157.	2.35	355.
2.00	1.75	0.21	31.	0.58	88.	0.41	62.	1.15	174.	0.77	116.	1.77	268.	1.39	210.	2.69	408.
2.25	1.00	0.09	14.	0.27	40.	0.22	33.	0.55	83.	0.38	58.	0.84	127.	0.62	93.	1.38	208.
2.25	1.25	0.14	21.	0.39	58.	0.32	48.	0.80	121.	0.55	83.	1.21	183.	0.89	134.	1.99	301.
2.25	1.50	0.18	28.	0.51	78.	0.42	64.	1.06	160.	0.72	109.	1.60	242.	1.19	180.	2.57	389.
2.25	1.75	0.23	35.	0.64	97.	0.52	79.	1.32	199.	0.93	141.	1.99	301.	1.58	239.	2.95	448.
2.50	1.00	0.10	16.	0.29	44.	0.28	43.	0.63	95.	0.45	68.	0.93	140.	0.69	105.	1.49	226.
2.50	1.25	0.15	23.	0.42	64.	0.41	62.	0.91	137.	0.64	97.	1.34	202.	1.00	151.	2.15	326.
2.50	1.50	0.20	30.	0.56	84.	0.54	82.	1.20	182.	0.85	128.	1.77	267.	1.34	202.	2.79	422.
2.50	1.75	0.25	38.	0.70	105.	0.67	101.	1.50	227.	1.09	165.	2.19	332.	1.76	267.	3.21	486.
2.75	1.00	0.12	19.	0.32	48.	0.34	52.	0.70	106.	0.51	78.	1.01	153.	0.77	116.	1.60	242.
2.75	1.25	0.18	27.	0.47	70.	0.49	75.	1.01	153.	0.74	111.	1.46	221.	1.10	166.	2.31	350.
2.75	1.50	0.24	36.	0.62	94.	0.65	99.	1.34	203.	0.97	146.	1.93	291.	1.47	223.	2.99	453.
2.75	1.75	0.30	45.	0.77	117.	0.81	122.	1.67	253.	1.24	187.	2.39	362.	1.94	293.	3.45	523.
3.00	1.00	0.18	27.	0.38	58.	0.40	61.	0.77	117.	0.57	87.	1.09	165.	0.84	126.	1.70	257.
3.00	1.25	0.26	39.	0.55	83.	0.58	87.	1.11	169.	0.82	124.	1.57	238.	1.20	181.	2.46	372.
3.00	1.50	0.34	51.	0.73	111.	0.76	115.	1.47	223.	1.08	163.	2.08	314.	1.60	243.	3.18	482.
3.00	1.75	0.42	63.	0.91	138.	0.94	142.	1.83	277.	1.38	209.	2.58	390.	2.10	318.	3.68	557.

T A B L E :

ORIENTATIONS : EAST & WEST

BEDROOM-3- WINDOW ON SIDE WALL -FIRST FLOOR
 OBST. HEIGHT 4.50 POINT DIST. 2.5000

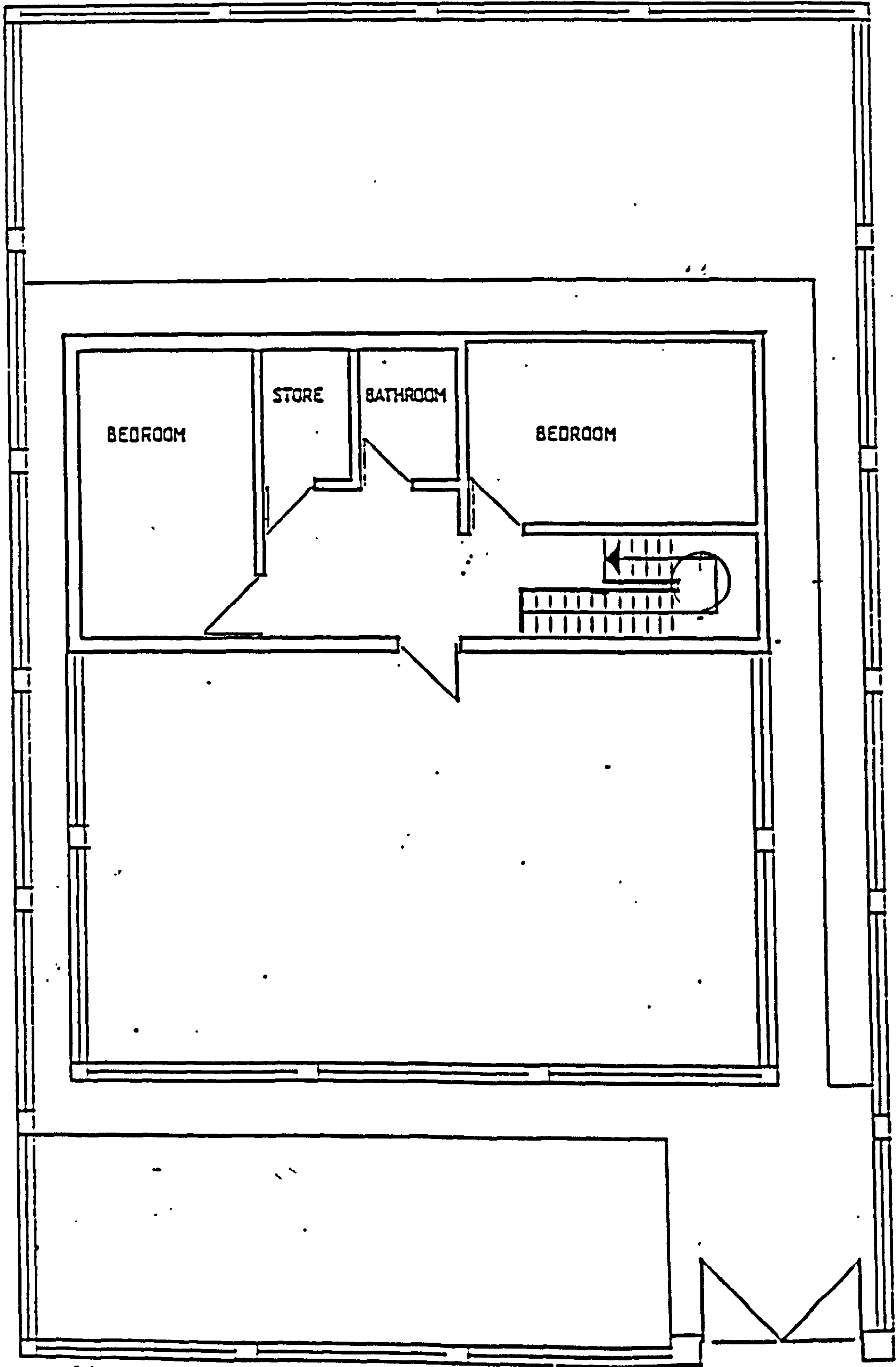
W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M						
		SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FAZ				
0.50	1.00	0.06	9.	0.16	24.	0.08	12.	0.22	34.	0.10	16.	0.29	44.	0.12	19.	0.35	53.
0.50	1.25	0.08	12.	0.23	35.	0.11	18.	0.32	49.	0.15	23.	0.42	64.	0.18	27.	0.50	77.
0.50	1.50	0.11	16.	0.30	46.	0.15	23.	0.43	65.	0.20	30.	0.55	84.	0.25	38.	0.65	99.
0.50	1.75	0.13	20.	0.37	57.	0.19	29.	0.53	81.	0.25	39.	0.68	103.	0.34	52.	0.74	113.
0.75	1.00	0.08	13.	0.23	36.	0.12	18.	0.33	51.	0.15	23.	0.43	65.	0.18	28.	0.52	79.
0.75	1.25	0.12	19.	0.34	52.	0.17	26.	0.48	73.	0.22	34.	0.62	95.	0.27	41.	0.75	114.
0.75	1.50	0.16	25.	0.45	69.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.37	56.	0.97	148.
0.75	1.75	0.20	31.	0.56	85.	0.28	43.	0.79	121.	0.38	57.	1.01	154.	0.50	77.	1.10	169.
1.00	1.00	0.11	17.	0.31	47.	0.16	24.	0.44	67.	0.20	31.	0.56	86.	0.24	37.	0.68	104.
1.00	1.25	0.16	24.	0.45	68.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.35	54.	0.99	151.
1.00	1.50	0.21	32.	0.59	91.	0.30	46.	0.84	128.	0.39	59.	1.08	165.	0.48	74.	1.28	195.
1.00	1.75	0.26	40.	0.74	113.	0.37	57.	1.04	159.	0.50	76.	1.33	203.	0.67	102.	1.46	223.
1.25	1.00	0.14	21.	0.38	58.	0.19	29.	0.54	82.	0.25	38.	0.69	106.	0.30	46.	0.84	128.
1.25	1.25	0.20	30.	0.55	85.	0.28	43.	0.78	119.	0.36	55.	1.01	154.	0.44	67.	1.22	186.
1.25	1.50	0.26	40.	0.73	112.	0.37	56.	1.03	158.	0.48	73.	1.33	204.	0.60	91.	1.58	241.
1.25	1.75	0.33	50.	0.91	139.	0.46	70.	1.29	197.	0.61	94.	1.64	251.	0.82	126.	1.80	276.
1.50	1.00	0.16	25.	0.45	69.	0.23	35.	0.63	97.	0.29	45.	0.82	125.	0.36	55.	0.99	151.
1.50	1.25	0.23	36.	0.65	100.	0.33	50.	0.92	141.	0.43	65.	1.19	182.	0.53	80.	1.44	220.
1.50	1.50	0.31	47.	0.87	132.	0.44	67.	1.22	187.	0.56	86.	1.58	241.	0.72	110.	1.86	284.
1.50	1.75	0.38	59.	1.08	165.	0.54	83.	1.52	233.	0.72	111.	1.94	297.	0.99	151.	2.13	325.
1.75	1.00	0.18	28.	0.52	79.	0.26	40.	0.73	111.	0.34	52.	0.94	144.	0.45	69.	1.12	172.
1.75	1.25	0.27	41.	0.75	115.	0.38	58.	1.06	162.	0.50	76.	1.36	209.	0.65	99.	1.63	249.
1.75	1.50	0.35	54.	0.99	152.	0.50	77.	1.40	215.	0.66	101.	1.81	277.	0.88	135.	2.11	322.
1.75	1.75	0.44	68.	1.24	189.	0.62	95.	1.75	267.	0.85	129.	2.23	341.	1.19	182.	2.42	370.
2.00	1.00	0.21	32.	0.58	88.	0.27	45.	0.81	125.	0.42	65.	1.06	161.	0.53	82.	1.25	191.
2.00	1.25	0.30	46.	0.84	128.	0.42	65.	1.18	181.	0.61	93.	1.53	234.	0.77	118.	1.81	277.
2.00	1.50	0.40	61.	1.11	170.	0.56	85.	1.57	241.	0.81	123.	2.03	310.	1.04	159.	2.34	358.
2.00	1.75	0.50	76.	1.39	212.	0.70	107.	1.96	300.	1.03	157.	2.50	382.	1.39	212.	2.69	412.
2.25	1.00	0.23	35.	0.63	97.	0.35	53.	0.91	139.	0.50	76.	1.17	178.	0.61	94.	1.37	210.
2.25	1.25	0.33	50.	0.92	141.	0.50	77.	1.32	202.	0.72	110.	1.69	258.	0.88	135.	1.99	304.
2.25	1.50	0.44	67.	1.23	188.	0.67	102.	1.75	267.	0.95	145.	2.24	342.	1.17	182.	2.57	393.
2.25	1.75	0.55	84.	1.53	234.	0.83	127.	2.18	333.	1.20	184.	2.75	421.	1.58	241.	2.96	453.
2.50	1.00	0.25	38.	0.69	105.	0.42	64.	1.00	153.	0.57	87.	1.27	194.	0.69	106.	1.49	228.
2.50	1.25	0.36	55.	1.00	153.	0.60	92.	1.45	222.	0.82	126.	1.84	281.	0.99	152.	2.15	329.
2.50	1.50	0.48	73.	1.33	204.	0.80	124.	1.72	274.	1.08	166.	2.43	372.	1.33	204.	2.78	426.
2.50	1.75	0.59	91.	1.66	254.	0.99	151.	2.40	367.	1.37	210.	3.00	458.	1.76	269.	3.21	491.
2.75	1.00	0.27	42.	0.75	114.	0.48	74.	1.09	166.	0.64	98.	1.37	209.	0.76	117.	1.60	244.
2.75	1.25	0.40	61.	1.09	166.	0.69	106.	1.58	241.	0.92	141.	1.98	303.	1.09	167.	2.31	353.
2.75	1.50	0.53	81.	1.44	221.	0.92	140.	2.09	320.	1.21	185.	2.62	401.	1.47	225.	2.99	457.
2.75	1.75	0.66	101.	1.80	276.	1.14	174.	2.60	398.	1.53	234.	3.23	494.	1.93	295.	3.45	528.
3.00	1.00	0.33	51.	0.82	125.	0.54	83.	1.17	179.	0.70	108.	1.46	223.	0.83	127.	1.70	259.
3.00	1.25	0.48	74.	1.19	182.	0.78	120.	1.70	259.	1.01	155.	2.11	323.	1.19	182.	2.45	375.
3.00	1.50	0.64	98.	1.58	242.	1.03	158.	2.25	344.	1.33	204.	2.80	428.	1.60	244.	3.18	486.
3.00	1.75	0.80	122.	1.97	302.	1.28	196.	2.80	428.	1.68	258.	3.44	527.	2.09	320.	3.67	562.



Key diagram showing the location
of window data . . .

Side Wall No.
1 1/2 Storey

Interhouse Distance
1, 2, 3 and 4m.



North Floor Plan

ORIENTATIONS : NORTH & SOUTH

STAIRCASE WINDOW ON SIDE WALL -FIRSTD FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M		
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FAZ
0.50	1.00	0.21	27.	0.23	29.	0.27	35.	0.27	35.	0.27	35.	0.27	35.
0.50	1.25	0.26	33.	0.28	36.	0.32	41.	0.32	41.	0.32	41.	0.32	41.
0.50	1.50	0.30	39.	0.32	41.	0.36	46.	0.36	46.	0.36	46.	0.36	46.
0.50	1.75	0.34	44.	0.36	46.	0.40	51.	0.40	51.	0.40	51.	0.40	51.
0.75	1.00	0.32	41.	0.34	44.	0.40	52.	0.40	52.	0.40	52.	0.40	52.
0.75	1.25	0.39	50.	0.42	53.	0.48	61.	0.48	61.	0.48	61.	0.48	61.
0.75	1.50	0.45	58.	0.48	62.	0.54	69.	0.54	69.	0.54	69.	0.54	69.
0.75	1.75	0.51	65.	0.53	69.	0.60	76.	0.60	76.	0.60	76.	0.60	76.
1.00	1.00	0.42	54.	0.46	59.	0.54	69.	0.54	69.	0.54	69.	0.54	69.
1.00	1.25	0.52	66.	0.55	71.	0.63	81.	0.63	81.	0.63	81.	0.63	81.
1.00	1.50	0.60	77.	0.64	82.	0.72	92.	0.72	92.	0.72	92.	0.72	92.
1.00	1.75	0.68	87.	0.71	91.	0.77	102.	0.77	102.	0.77	102.	0.77	102.
1.25	1.00	0.52	67.	0.57	73.	0.67	86.	0.67	86.	0.67	86.	0.67	86.
1.25	1.25	0.65	83.	0.69	88.	0.79	102.	0.79	102.	0.79	102.	0.79	102.
1.25	1.50	0.75	96.	0.79	102.	0.90	115.	0.90	115.	0.90	115.	0.90	115.
1.25	1.75	0.84	108.	0.89	114.	0.99	127.	0.99	127.	0.99	127.	0.99	127.
1.50	1.00	0.63	81.	0.68	88.	0.80	103.	0.80	103.	0.80	103.	0.80	103.
1.50	1.25	0.78	100.	0.83	106.	0.95	121.	0.95	121.	0.95	121.	0.95	121.
1.50	1.50	0.90	116.	0.95	122.	1.07	138.	1.07	138.	1.07	138.	1.07	138.
1.50	1.75	1.01	130.	1.06	136.	1.18	152.	1.18	152.	1.18	152.	1.18	152.
1.75	1.00	0.75	96.	0.80	103.	0.93	119.	0.93	119.	0.93	119.	0.93	119.
1.75	1.25	0.92	118.	0.97	125.	1.10	141.	1.10	141.	1.10	141.	1.10	141.
1.75	1.50	1.06	137.	1.12	144.	1.24	160.	1.24	160.	1.24	160.	1.24	160.
1.75	1.75	1.19	153.	1.25	160.	1.37	176.	1.37	176.	1.37	176.	1.37	176.
2.00	1.00	0.87	111.	0.92	119.	1.06	136.	1.06	136.	1.06	136.	1.06	136.
2.00	1.25	1.06	136.	1.12	143.	1.25	160.	1.25	160.	1.25	160.	1.25	160.
2.00	1.50	1.23	157.	1.28	165.	1.42	182.	1.42	182.	1.42	182.	1.42	182.
2.00	1.75	1.37	176.	1.43	183.	1.56	200.	1.56	200.	1.56	200.	1.56	200.
2.25	1.00	0.98	126.	1.04	134.	1.18	152.	1.18	152.	1.18	152.	1.18	152.
2.25	1.25	1.20	154.	1.26	162.	1.40	179.	1.40	179.	1.40	179.	1.40	179.
2.25	1.50	1.38	178.	1.45	186.	1.58	203.	1.58	203.	1.58	203.	1.58	203.
2.25	1.75	1.55	199.	1.61	207.	1.75	224.	1.75	224.	1.75	224.	1.75	224.
2.50	1.00	1.10	141.	1.16	149.	1.31	168.	1.31	168.	1.31	168.	1.31	168.
2.50	1.25	1.33	171.	1.40	180.	1.54	198.	1.54	198.	1.54	198.	1.54	198.
2.50	1.50	1.54	198.	1.61	206.	1.75	225.	1.75	225.	1.75	225.	1.75	225.
2.50	1.75	1.72	221.	1.79	229.	1.93	248.	1.93	248.	1.93	248.	1.93	248.
2.75	1.00	1.21	155.	1.28	164.	1.43	183.	1.43	183.	1.43	183.	1.43	183.
2.75	1.25	1.47	188.	1.54	197.	1.69	216.	1.69	216.	1.69	216.	1.69	216.
2.75	1.50	1.69	217.	1.76	226.	1.91	246.	1.91	246.	1.91	246.	1.91	246.
2.75	1.75	1.89	243.	1.96	252.	2.11	271.	2.11	271.	2.11	271.	2.11	271.
3.00	1.00	1.32	169.	1.39	178.	1.54	198.	1.54	198.	1.54	198.	1.54	198.
3.00	1.25	1.60	205.	1.67	214.	1.82	234.	1.82	234.	1.82	234.	1.82	234.
3.00	1.50	1.84	237.	1.92	246.	2.07	266.	2.07	266.	2.07	266.	2.07	266.
3.00	1.75	2.06	264.	2.13	273.	2.29	293.	2.29	293.	2.29	293.	2.29	293.

ORIENTATIONS : 22.5 & 157.5 & 202.5 & 337.5

STAIRCASE WINDOW ON SIDE WALL -FIRSTD FLOOR
OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M		
		SKY+EXTERNAL 25%WALLREFL.	REFLECTION 70%WALLREFL.	FA %	SKY+EXTERNAL 25%WALLREFL.	REFLECTION 70%WALLREFL.	FA %	SKY+EXTERNAL 25%WALLREFL.	REFLECTION 70%WALLREFL.	FA %	SKY+EXTERNAL 25%WALLREFL.	REFLECTION 70%WALLREFL.	FA %
0.50	1.00	0.22	31.	0.24	34.	0.28	40.	0.28	40.	0.28	40.	0.28	40.
0.50	1.25	0.27	39.	0.29	41.	0.34	47.	0.34	47.	0.34	47.	0.34	47.
0.50	1.50	0.32	45.	0.34	48.	0.38	54.	0.38	54.	0.38	54.	0.38	54.
0.50	1.75	0.36	51.	0.38	54.	0.42	60.	0.42	60.	0.42	60.	0.42	60.
0.75	1.00	0.33	47.	0.36	51.	0.42	60.	0.42	60.	0.42	60.	0.42	60.
0.75	1.25	0.41	58.	0.44	62.	0.50	71.	0.50	71.	0.50	71.	0.50	71.
0.75	1.50	0.48	68.	0.51	72.	0.57	81.	0.57	81.	0.57	81.	0.57	81.
0.75	1.75	0.54	76.	0.57	80.	0.63	89.	0.63	89.	0.63	89.	0.63	89.
1.00	1.00	0.44	63.	0.48	67.	0.56	80.	0.56	80.	0.56	80.	0.56	80.
1.00	1.25	0.53	77.	0.58	82.	0.67	94.	0.67	94.	0.67	94.	0.67	94.
1.00	1.50	0.64	90.	0.67	95.	0.76	107.	0.76	107.	0.76	107.	0.76	107.
1.00	1.75	0.72	102.	0.76	107.	0.84	119.	0.84	119.	0.84	119.	0.84	119.
1.25	1.00	0.55	78.	0.59	84.	0.70	99.	0.70	99.	0.70	99.	0.70	99.
1.25	1.25	0.68	96.	0.73	102.	0.83	118.	0.83	118.	0.83	118.	0.83	118.
1.25	1.50	0.80	113.	0.84	119.	0.95	134.	0.95	134.	0.95	134.	0.95	134.
1.25	1.75	0.90	127.	0.94	133.	1.05	148.	1.05	148.	1.05	148.	1.05	148.
1.50	1.00	0.66	94.	0.71	101.	0.84	118.	0.84	118.	0.84	118.	0.84	118.
1.50	1.25	0.82	116.	0.87	123.	0.99	140.	0.99	140.	0.99	140.	0.99	140.
1.50	1.50	0.96	135.	1.01	142.	1.13	160.	1.13	160.	1.13	160.	1.13	160.
1.50	1.75	1.08	152.	1.13	159.	1.25	177.	1.25	177.	1.25	177.	1.25	177.
1.75	1.00	0.79	111.	0.84	119.	0.97	137.	0.97	137.	0.97	137.	0.97	137.
1.75	1.25	0.97	137.	1.02	145.	1.15	163.	1.15	163.	1.15	163.	1.15	163.
1.75	1.50	1.13	159.	1.18	167.	1.31	186.	1.31	186.	1.31	186.	1.31	186.
1.75	1.75	1.27	179.	1.32	187.	1.45	205.	1.45	205.	1.45	205.	1.45	205.
2.00	1.00	0.91	128.	0.97	136.	1.10	156.	1.10	156.	1.10	156.	1.10	156.
2.00	1.25	1.11	158.	1.17	166.	1.31	185.	1.31	185.	1.31	185.	1.31	185.
2.00	1.50	1.30	183.	1.35	191.	1.49	211.	1.49	211.	1.49	211.	1.49	211.
2.00	1.75	1.46	206.	1.51	214.	1.65	233.	1.65	233.	1.65	233.	1.65	233.
2.25	1.00	1.03	145.	1.09	154.	1.23	174.	1.23	174.	1.23	174.	1.23	174.
2.25	1.25	1.26	178.	1.32	187.	1.46	207.	1.46	207.	1.46	207.	1.46	207.
2.25	1.50	1.46	207.	1.52	215.	1.67	236.	1.67	236.	1.67	236.	1.67	236.
2.25	1.75	1.64	232.	1.70	241.	1.85	261.	1.85	261.	1.85	261.	1.85	261.
2.50	1.00	1.14	162.	1.21	171.	1.36	192.	1.36	192.	1.36	192.	1.36	192.
2.50	1.25	1.40	198.	1.46	207.	1.61	228.	1.61	228.	1.61	228.	1.61	228.
2.50	1.50	1.63	230.	1.69	239.	1.84	260.	1.84	260.	1.84	260.	1.84	260.
2.50	1.75	1.82	258.	1.89	267.	2.04	288.	2.04	288.	2.04	288.	2.04	288.
2.75	1.00	1.26	178.	1.33	187.	1.48	209.	1.48	209.	1.48	209.	1.48	209.
2.75	1.25	1.54	217.	1.61	227.	1.76	249.	1.76	249.	1.76	249.	1.76	249.
2.75	1.50	1.78	252.	1.85	262.	2.01	284.	2.01	284.	2.01	284.	2.01	284.
2.75	1.75	2.00	283.	2.07	293.	2.22	314.	2.22	314.	2.22	314.	2.22	314.
3.00	1.00	1.37	194.	1.44	204.	1.60	226.	1.60	226.	1.60	226.	1.60	226.
3.00	1.25	1.67	236.	1.74	246.	1.90	269.	1.90	269.	1.90	269.	1.90	269.
3.00	1.50	1.94	274.	2.01	284.	2.17	307.	2.17	307.	2.17	307.	2.17	307.
3.00	1.75	2.17	307.	2.25	318.	2.41	340.	2.41	340.	2.41	340.	2.41	340.

ORIENTATIONS : 45.0 & 135.0 & 225.0 & 315.0
 STAIRCASE WINDOW ON SIDE WALL -FIRSTD FLOOR
 ORST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W M I D D L E H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M		
	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	FA %
0.50	0.23	33.	0.25	37.	0.29	42.	0.29	42.	0.29	42.	0.29	42.
0.50	0.28	41.	0.31	45.	0.34	50.	0.34	50.	0.34	50.	0.34	50.
0.50	0.33	48.	0.36	52.	0.39	57.	0.39	57.	0.39	57.	0.39	57.
0.50	0.38	54.	0.40	58.	0.43	63.	0.43	63.	0.43	63.	0.43	63.
0.75	0.34	50.	0.38	55.	0.43	63.	0.43	63.	0.43	63.	0.43	63.
0.75	0.43	62.	0.46	67.	0.51	75.	0.51	75.	0.51	75.	0.51	75.
0.75	0.50	72.	0.53	77.	0.59	85.	0.59	85.	0.59	85.	0.59	85.
0.75	0.56	82.	0.60	86.	0.65	94.	0.65	94.	0.65	94.	0.65	94.
1.00	0.46	67.	0.50	73.	0.58	84.	0.58	84.	0.58	84.	0.58	84.
1.00	0.57	82.	0.61	89.	0.68	99.	0.68	99.	0.68	99.	0.68	99.
1.00	0.66	96.	0.71	103.	0.78	113.	0.78	113.	0.78	113.	0.78	113.
1.00	0.75	108.	0.79	115.	0.86	125.	0.86	125.	0.86	125.	0.86	125.
1.25	0.57	83.	0.63	91.	0.72	104.	0.72	104.	0.72	104.	0.72	104.
1.25	0.71	102.	0.76	111.	0.85	124.	0.85	124.	0.85	124.	0.85	124.
1.25	0.83	120.	0.88	128.	0.97	141.	0.97	141.	0.97	141.	0.97	141.
1.25	0.93	135.	0.99	143.	1.08	156.	1.08	156.	1.08	156.	1.08	156.
1.50	0.69	100.	0.75	109.	0.86	124.	0.86	124.	0.86	124.	0.86	124.
1.50	0.85	123.	0.91	132.	1.02	148.	1.02	148.	1.02	148.	1.02	148.
1.50	0.99	144.	1.06	153.	1.16	168.	1.16	168.	1.16	168.	1.16	168.
1.50	1.12	162.	1.18	171.	1.29	187.	1.29	187.	1.29	187.	1.29	187.
1.75	0.81	118.	0.88	128.	0.99	144.	0.99	144.	0.99	144.	0.99	144.
1.75	1.00	145.	1.07	155.	1.18	171.	1.18	171.	1.18	171.	1.18	171.
1.75	1.17	169.	1.24	179.	1.35	195.	1.35	195.	1.35	195.	1.35	195.
1.75	1.31	190.	1.38	201.	1.49	217.	1.49	217.	1.49	217.	1.49	217.
2.00	0.94	136.	1.01	147.	1.13	164.	1.13	164.	1.13	164.	1.13	164.
2.00	1.15	167.	1.22	178.	1.34	195.	1.34	195.	1.34	195.	1.34	195.
2.00	1.34	194.	1.41	205.	1.53	222.	1.53	222.	1.53	222.	1.53	222.
2.00	1.51	219.	1.58	229.	1.70	246.	1.70	246.	1.70	246.	1.70	246.
2.25	1.06	154.	1.14	165.	1.26	183.	1.26	183.	1.26	183.	1.26	183.
2.25	1.30	188.	1.38	200.	1.50	217.	1.50	217.	1.50	217.	1.50	217.
2.25	1.51	219.	1.59	230.	1.71	248.	1.71	248.	1.71	248.	1.71	248.
2.25	1.70	246.	1.77	257.	1.90	275.	1.90	275.	1.90	275.	1.90	275.
2.50	1.18	171.	1.26	183.	1.37	201.	1.37	201.	1.37	201.	1.37	201.
2.50	1.44	209.	1.52	221.	1.65	240.	1.65	240.	1.65	240.	1.65	240.
2.50	1.68	243.	1.76	255.	1.88	274.	1.88	274.	1.88	274.	1.88	274.
2.50	1.88	273.	1.96	285.	2.09	303.	2.09	303.	2.09	303.	2.09	303.
2.75	1.29	188.	1.38	200.	1.51	219.	1.51	219.	1.51	219.	1.51	219.
2.75	1.58	230.	1.67	242.	1.80	261.	1.80	261.	1.80	261.	1.80	261.
2.75	1.84	267.	1.92	279.	2.06	298.	2.06	298.	2.06	298.	2.06	298.
2.75	2.06	299.	2.15	312.	2.28	331.	2.28	331.	2.28	331.	2.28	331.
3.00	1.41	204.	1.50	217.	1.63	237.	1.63	237.	1.63	237.	1.63	237.
3.00	1.72	249.	1.81	263.	1.94	282.	1.94	282.	1.94	282.	1.94	282.
3.00	2.00	290.	2.09	303.	2.22	322.	2.22	322.	2.22	322.	2.22	322.
3.00	2.24	325.	2.33	338.	2.47	358.	2.47	358.	2.47	358.	2.47	358.

ORIENTATIONS : 67.5 & 112.5 & 247.5 & 292.5

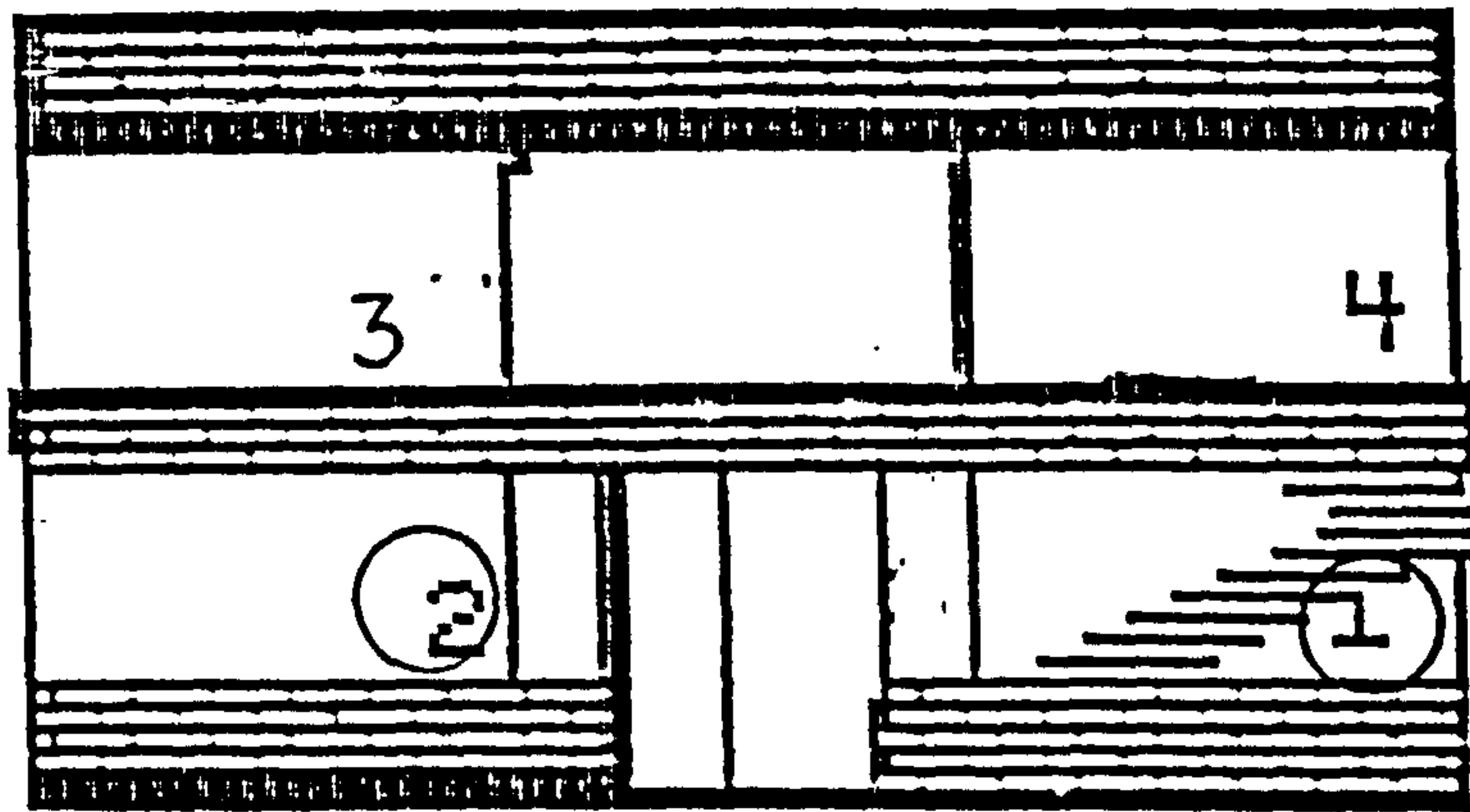
STAIRCASE WINDOW ON SIDE WALL -FIRSTD FLOOR
OBST.HIGHT 4.50 POINT DIST. 2.5000

W I N D O W WIDTH HEIGHT	INTER-HOUSE DIST. = 1.0 M			INTER-HOUSE DIST. = 2.0 M			INTER-HOUSE DIST. = 3.0 M			INTER-HOUSE DIST. = 4.0 M		
	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA %
0.50	0.24	36.	0.25	38.	0.30	46.	0.30	46.	0.30	46.	0.30	46.
0.50	0.30	45.	0.31	47.	0.36	55.	0.36	55.	0.36	55.	0.36	55.
0.50	0.35	53.	0.36	55.	0.41	62.	0.41	62.	0.41	62.	0.41	62.
0.50	0.39	59.	0.41	62.	0.46	69.	0.46	69.	0.46	69.	0.46	69.
0.75	0.36	54.	0.38	57.	0.45	68.	0.45	68.	0.45	68.	0.45	68.
0.75	0.44	67.	0.47	71.	0.54	82.	0.54	82.	0.54	82.	0.54	82.
0.75	0.52	79.	0.54	82.	0.62	93.	0.62	93.	0.62	93.	0.62	93.
0.75	0.59	89.	0.61	93.	0.69	104.	0.69	104.	0.69	104.	0.69	104.
1.00	0.47	71.	0.50	76.	0.60	91.	0.60	91.	0.60	91.	0.60	91.
1.00	0.59	89.	0.62	94.	0.72	108.	0.72	108.	0.72	108.	0.72	108.
1.00	0.69	105.	0.72	109.	0.82	124.	0.82	124.	0.82	124.	0.82	124.
1.00	0.78	118.	0.81	123.	0.91	138.	0.91	138.	0.91	138.	0.91	138.
1.25	0.59	89.	0.63	95.	0.75	113.	0.75	113.	0.75	113.	0.75	113.
1.25	0.73	111.	0.77	117.	0.89	135.	0.89	135.	0.89	135.	0.89	135.
1.25	0.86	130.	0.90	136.	1.02	154.	1.02	154.	1.02	154.	1.02	154.
1.25	0.97	147.	1.01	153.	1.13	171.	1.13	171.	1.13	171.	1.13	171.
1.50	0.71	107.	0.75	114.	0.89	135.	0.89	135.	0.89	135.	0.89	135.
1.50	0.88	133.	0.92	140.	1.06	161.	1.06	161.	1.06	161.	1.06	161.
1.50	1.03	156.	1.08	163.	1.22	184.	1.22	184.	1.22	184.	1.22	184.
1.50	1.17	177.	1.21	184.	1.35	205.	1.35	205.	1.35	205.	1.35	205.
1.75	0.83	126.	0.88	134.	1.03	156.	1.03	156.	1.03	156.	1.03	156.
1.75	1.04	157.	1.08	164.	1.23	186.	1.23	186.	1.23	186.	1.23	186.
1.75	1.21	184.	1.26	191.	1.41	213.	1.41	213.	1.41	213.	1.41	213.
1.75	1.37	207.	1.42	215.	1.57	237.	1.57	237.	1.57	237.	1.57	237.
2.00	0.96	145.	1.01	153.	1.17	177.	1.17	177.	1.17	177.	1.17	177.
2.00	1.19	180.	1.24	188.	1.40	211.	1.40	211.	1.40	211.	1.40	211.
2.00	1.39	211.	1.44	219.	1.60	242.	1.60	242.	1.60	242.	1.60	242.
2.00	1.57	238.	1.62	246.	1.78	269.	1.78	269.	1.78	269.	1.78	269.
2.25	1.09	164.	1.14	173.	1.30	197.	1.30	197.	1.30	197.	1.30	197.
2.25	1.34	203.	1.40	211.	1.56	236.	1.56	236.	1.56	236.	1.56	236.
2.25	1.57	237.	1.62	245.	1.79	270.	1.79	270.	1.79	270.	1.79	270.
2.25	1.77	267.	1.82	276.	1.99	301.	1.99	301.	1.99	301.	1.99	301.
2.50	1.21	182.	1.27	191.	1.44	217.	1.44	217.	1.44	217.	1.44	217.
2.50	1.49	225.	1.55	234.	1.72	260.	1.72	260.	1.72	260.	1.72	260.
2.50	1.74	263.	1.80	272.	1.97	297.	1.97	297.	1.97	297.	1.97	297.
2.50	1.96	296.	2.02	305.	2.19	331.	2.19	331.	2.19	331.	2.19	331.
2.75	1.32	200.	1.39	210.	1.56	236.	1.56	236.	1.56	236.	1.56	236.
2.75	1.63	246.	1.69	256.	1.87	282.	1.87	282.	1.87	282.	1.87	282.
2.75	1.90	288.	1.96	297.	2.14	324.	2.14	324.	2.14	324.	2.14	324.
2.75	2.14	324.	2.21	334.	2.38	361.	2.38	361.	2.38	361.	2.38	361.
3.00	1.44	217.	1.50	227.	1.68	255.	1.68	255.	1.68	255.	1.68	255.
3.00	1.77	267.	1.83	277.	2.01	305.	2.01	305.	2.01	305.	2.01	305.
3.00	2.06	312.	2.13	322.	2.31	349.	2.31	349.	2.31	349.	2.31	349.
3.00	2.33	352.	2.39	362.	2.57	389.	2.57	389.	2.57	389.	2.57	389.

ORIENTATIONS : EAST & WEST

STAIRCASE WINDOW ON SIDE WALL -FIRSTD FLOOR
OBST-HIGHT 4.50 POINT DIST. 2.5000

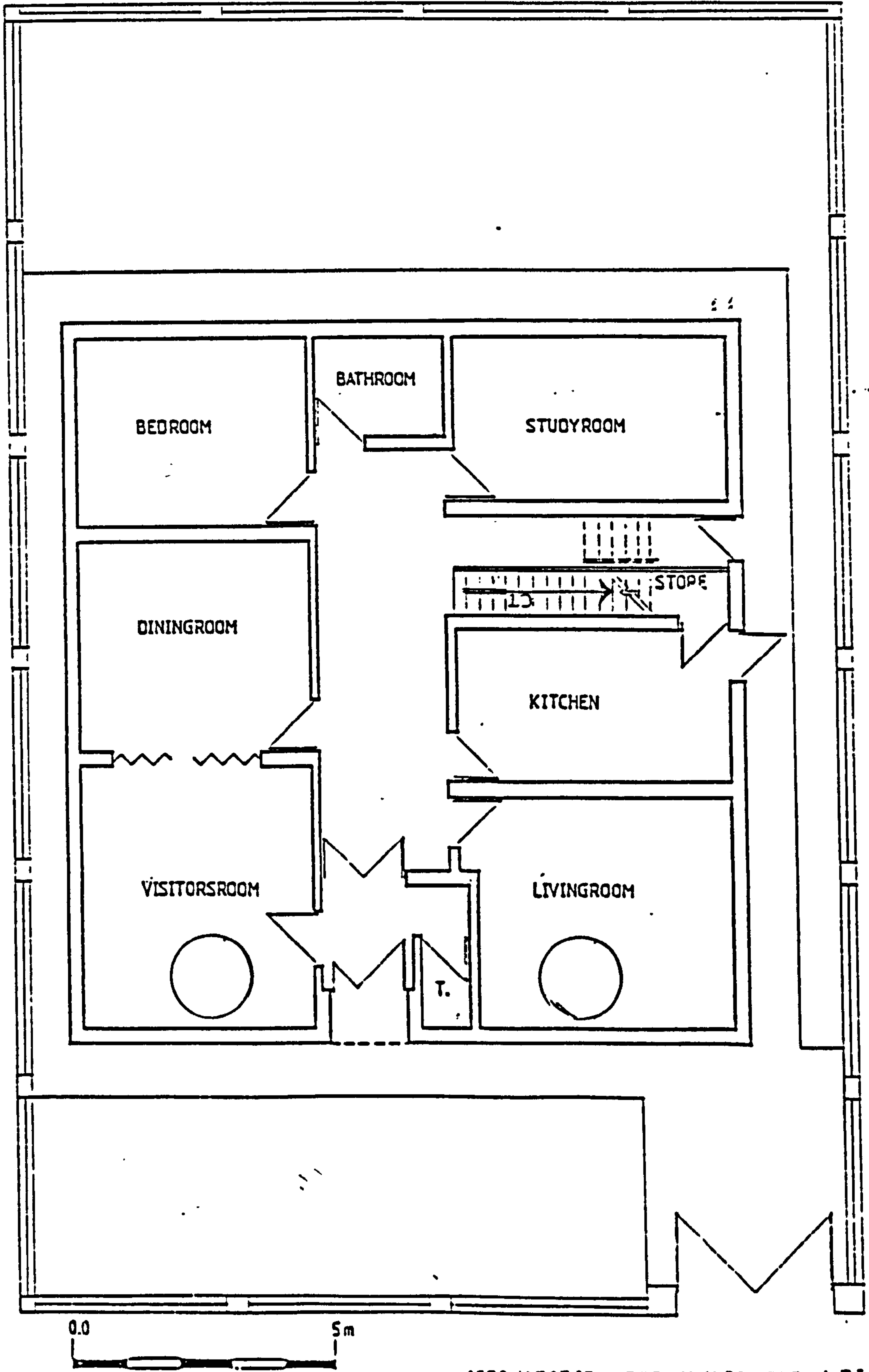
W I N D O W WIDTH	H E I G H T	INTER-HOUSE DIST. = 1.M			INTER-HOUSE DIST. = 2.M			INTER-HOUSE DIST. = 3.M			INTER-HOUSE DIST. = 4.M		
		SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION LUX	70%WALLREFL. FAZ
0.50	1.00	0.25	39.	0.29	45.	0.31	47.	0.31	47.	0.31	47.	0.31	47.
0.50	1.25	0.31	48.	0.35	54.	0.37	56.	0.37	56.	0.37	56.	0.37	56.
0.50	1.50	0.37	56.	0.40	62.	0.42	64.	0.42	64.	0.42	64.	0.42	64.
0.50	1.75	0.41	63.	0.45	69.	0.47	71.	0.47	71.	0.47	71.	0.47	71.
0.75	1.00	0.38	58.	0.44	67.	0.46	70.	0.46	70.	0.46	70.	0.46	70.
0.75	1.25	0.47	72.	0.53	80.	0.55	84.	0.55	84.	0.55	84.	0.55	84.
0.75	1.50	0.55	84.	0.60	92.	0.63	96.	0.63	96.	0.63	96.	0.63	96.
0.75	1.75	0.62	94.	0.67	103.	0.70	106.	0.70	106.	0.70	106.	0.70	106.
1.00	1.00	0.50	77.	0.58	89.	0.61	93.	0.61	93.	0.61	93.	0.61	93.
1.00	1.25	0.62	95.	0.70	107.	0.73	111.	0.73	111.	0.73	111.	0.73	111.
1.00	1.50	0.73	111.	0.80	123.	0.83	127.	0.83	127.	0.83	127.	0.83	127.
1.00	1.75	0.82	125.	0.90	137.	0.92	141.	0.92	141.	0.92	141.	0.92	141.
1.25	1.00	0.63	96.	0.72	110.	0.76	116.	0.76	116.	0.76	116.	0.76	116.
1.25	1.25	0.77	118.	0.87	133.	0.90	138.	0.90	138.	0.90	138.	0.90	138.
1.25	1.50	0.90	138.	1.00	153.	1.03	158.	1.03	158.	1.03	158.	1.03	158.
1.25	1.75	1.02	156.	1.11	171.	1.15	176.	1.15	176.	1.15	176.	1.15	176.
1.50	1.00	0.75	115.	0.86	132.	0.90	138.	0.90	138.	0.90	138.	0.90	138.
1.50	1.25	0.93	142.	1.04	158.	1.08	165.	1.08	165.	1.08	165.	1.08	165.
1.50	1.50	1.08	166.	1.17	182.	1.23	187.	1.23	187.	1.23	187.	1.23	187.
1.50	1.75	1.22	187.	1.33	204.	1.37	210.	1.37	210.	1.37	210.	1.37	210.
1.75	1.00	0.88	135.	1.00	153.	1.04	160.	1.04	160.	1.04	160.	1.04	160.
1.75	1.25	1.09	166.	1.21	184.	1.25	191.	1.25	191.	1.25	191.	1.25	191.
1.75	1.50	1.27	194.	1.39	212.	1.43	219.	1.43	219.	1.43	219.	1.43	219.
1.75	1.75	1.43	219.	1.55	237.	1.59	243.	1.59	243.	1.59	243.	1.59	243.
2.00	1.00	1.01	155.	1.14	174.	1.18	181.	1.18	181.	1.18	181.	1.18	181.
2.00	1.25	1.25	190.	1.37	210.	1.41	216.	1.41	216.	1.41	216.	1.41	216.
2.00	1.50	1.45	222.	1.58	241.	1.62	248.	1.62	248.	1.62	248.	1.62	248.
2.00	1.75	1.64	250.	1.76	270.	1.81	276.	1.81	276.	1.81	276.	1.81	276.
2.25	1.00	1.14	174.	1.27	195.	1.32	202.	1.32	202.	1.32	202.	1.32	202.
2.25	1.25	1.40	214.	1.53	235.	1.58	241.	1.58	241.	1.58	241.	1.58	241.
2.25	1.50	1.63	249.	1.77	270.	1.81	277.	1.81	277.	1.81	277.	1.81	277.
2.25	1.75	1.84	281.	1.97	301.	2.01	308.	2.01	308.	2.01	308.	2.01	308.
2.50	1.00	1.26	193.	1.41	215.	1.45	222.	1.45	222.	1.45	222.	1.45	222.
2.50	1.25	1.55	237.	1.69	259.	1.73	265.	1.73	265.	1.73	265.	1.73	265.
2.50	1.50	1.80	276.	1.95	298.	1.99	304.	1.99	304.	1.99	304.	1.99	304.
2.50	1.75	2.03	311.	2.17	332.	2.22	339.	2.22	339.	2.22	339.	2.22	339.
2.75	1.00	1.38	212.	1.53	234.	1.58	241.	1.58	241.	1.58	241.	1.58	241.
2.75	1.25	1.69	259.	1.84	282.	1.89	289.	1.89	289.	1.89	289.	1.89	289.
2.75	1.50	1.97	302.	2.12	325.	2.17	331.	2.17	331.	2.17	331.	2.17	331.
2.75	1.75	2.22	340.	2.37	362.	2.41	369.	2.41	369.	2.41	369.	2.41	369.
3.00	1.00	1.50	229.	1.65	253.	1.70	260.	1.70	260.	1.70	260.	1.70	260.
3.00	1.25	1.83	281.	1.99	304.	2.03	311.	2.03	311.	2.03	311.	2.03	311.
3.00	1.50	2.14	327.	2.29	350.	2.33	357.	2.33	357.	2.33	357.	2.33	357.
3.00	1.75	2.40	368.	2.56	392.	2.60	398.	2.60	398.	2.60	398.	2.60	398.



Key diagram showing the location
of window data

Front Wall

1 Or 2 Storey



ARCHITECTURAL FLOOR PLAN

ORIENTATIONS : NORTH & SOUTH

LIVINGROOM WINDOW ON FRONT WALL-GROUND FLOOR
 OBST.HIGHT 7.50 POINT DIST. 2.5000

WINDOW		INTER-HOUSE DIST.= 22.M			
WIDTH	HEIGHT	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX
0.50	1.00	0.26	34.	0.53	68.
0.50	1.25	0.36	46.	0.62	80.
0.50	1.50	0.45	58.	0.72	92.
0.50	1.75	0.54	69.	0.80	103.
0.75	1.00	0.39	51.	0.78	101.
0.75	1.25	0.54	69.	0.93	119.
0.75	1.50	0.68	87.	1.07	137.
0.75	1.75	0.81	104.	1.20	154.
1.00	1.00	0.52	67.	1.04	133.
1.00	1.25	0.71	91.	1.23	158.
1.00	1.50	0.90	115.	1.41	181.
1.00	1.75	1.07	137.	1.58	203.
1.25	1.00	0.64	83.	1.28	164.
1.25	1.25	0.88	113.	1.52	195.
1.25	1.50	1.11	143.	1.75	224.
1.25	1.75	1.33	170.	1.96	252.
1.50	1.00	0.76	98.	1.51	194.
1.50	1.25	1.05	134.	1.80	231.
1.50	1.50	1.32	169.	2.07	266.
1.50	1.75	1.58	202.	2.33	299.
1.75	1.00	0.88	113.	1.74	223.
1.75	1.25	1.20	155.	2.06	265.
1.75	1.50	1.52	195.	2.38	306.
1.75	1.75	1.82	234.	2.68	344.
2.00	1.00	0.99	127.	1.95	250.
2.00	1.25	1.36	174.	2.32	298.
2.00	1.50	1.72	220.	2.68	344.
2.00	1.75	2.05	264.	3.01	387.
2.25	1.00	1.09	140.	2.15	276.
2.25	1.25	1.50	193.	2.56	329.
2.25	1.50	1.90	244.	2.96	380.
2.25	1.75	2.28	293.	3.34	428.
2.50	1.00	1.19	153.	2.33	300.
2.50	1.25	1.64	211.	2.79	358.
2.50	1.50	2.08	267.	3.23	415.
2.50	1.75	2.50	321.	3.64	468.
2.75	1.00	1.28	164.	2.51	322.
2.75	1.25	1.77	228.	3.00	385.
2.75	1.50	2.25	289.	3.48	447.
2.75	1.75	2.70	347.	3.93	505.
3.00	1.00	1.37	176.	2.67	343.
3.00	1.25	1.90	244.	3.20	411.
3.00	1.50	2.42	310.	3.72	478.
3.00	1.75	2.90	373.	4.21	540.

ORIENTATIONS: 22.5 & 157.5 & 202.5 & 337.5

LIVINGROOM WINDOW ON FRONT WALL-GROUND FLOOR
OBST.HIGHT 7.50 POINT DIST. 2.5000

W I N D O W		INTER-HOUSE DIST. = 22.M SKY+EXTERNAL REFLECTION			
WIDTH	HEIGHT	25%WALLREFL. FA %	LUX	70%WALLREFL. FA%	LUX
0.50	1.00	0.26	36.	0.51	73.
0.50	1.25	0.35	50.	0.61	86.
0.50	1.50	0.45	63.	0.70	99.
0.50	1.75	0.53	75.	0.79	112.
0.75	1.00	0.38	54.	0.77	108.
0.75	1.25	0.53	74.	0.91	128.
0.75	1.50	0.67	94.	1.05	148.
0.75	1.75	0.80	113.	1.18	167.
1.00	1.00	0.51	72.	1.01	143.
1.00	1.25	0.70	98.	1.20	169.
1.00	1.50	0.88	124.	1.38	196.
1.00	1.75	1.06	149.	1.56	220.
1.25	1.00	0.63	89.	1.25	176.
1.25	1.25	0.86	122.	1.48	209.
1.25	1.50	1.09	154.	1.71	242.
1.25	1.75	1.31	185.	1.93	273.
1.50	1.00	0.74	105.	1.47	208.
1.50	1.25	1.02	144.	1.75	248.
1.50	1.50	1.29	183.	2.03	286.
1.50	1.75	1.55	220.	2.29	323.
1.75	1.00	0.85	121.	1.69	239.
1.75	1.25	1.18	166.	2.01	285.
1.75	1.50	1.49	211.	2.33	329.
1.75	1.75	1.79	253.	2.63	372.
2.00	1.00	0.96	136.	1.90	268.
2.00	1.25	1.32	187.	2.26	320.
2.00	1.50	1.68	238.	2.62	370.
2.00	1.75	2.02	286.	2.96	418.
2.25	1.00	1.06	150.	2.09	295.
2.25	1.25	1.46	207.	2.50	353.
2.25	1.50	1.86	263.	2.89	409.
2.25	1.75	2.24	317.	3.27	463.
2.50	1.00	1.15	163.	2.27	321.
2.50	1.25	1.60	226.	2.72	384.
2.50	1.50	2.03	288.	3.15	446.
2.50	1.75	2.45	347.	3.57	505.
2.75	1.00	1.24	176.	2.44	345.
2.75	1.25	1.72	244.	2.92	413.
2.75	1.50	2.20	311.	3.40	480.
2.75	1.75	2.65	375.	3.85	544.
3.00	1.00	1.32	187.	2.60	367.
3.00	1.25	1.84	260.	3.11	440.
3.00	1.50	2.35	333.	3.63	513.
3.00	1.75	2.84	402.	4.12	582.

ORIENTATIONS: 45.0 & 135.0 & 225.0 & 315.0

LIVINGROOM WINDOW ON FRONT WALL-GROUND FLOOR
OBST.HIGHT 7.50 POINT DIST. 2.5000

WINDOW		INTER-HOUSE DIST. = 22.M		REFLECTION	
WIDTH	HEIGHT	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	70%WALLREFL. FA%	LUX
0.50	1.00	0.25	37.	0.51	74.
0.50	1.25	0.35	51.	0.60	87.
0.50	1.50	0.44	64.	0.70	101.
0.50	1.75	0.53	77.	0.78	114.
0.75	1.00	0.38	55.	0.75	110.
0.75	1.25	0.52	76.	0.90	130.
0.75	1.50	0.66	96.	1.04	151.
0.75	1.75	0.80	115.	1.17	170.
1.00	1.00	0.50	73.	1.00	145.
1.00	1.25	0.69	100.	1.19	172.
1.00	1.50	0.88	127.	1.37	199.
1.00	1.75	1.05	153.	1.55	225.
1.25	1.00	0.62	90.	1.23	179.
1.25	1.25	0.86	124.	1.46	213.
1.25	1.50	1.09	158.	1.69	246.
1.25	1.75	1.31	189.	1.91	278.
1.50	1.00	0.73	107.	1.45	211.
1.50	1.25	1.01	147.	1.73	252.
1.50	1.50	1.29	187.	2.01	291.
1.50	1.75	1.55	225.	2.27	329.
1.75	1.00	0.84	122.	1.67	242.
1.75	1.25	1.17	169.	1.99	289.
1.75	1.50	1.48	215.	2.31	335.
1.75	1.75	1.79	259.	2.61	379.
2.00	1.00	0.95	138.	1.87	271.
2.00	1.25	1.31	190.	2.23	324.
2.00	1.50	1.67	243.	2.59	376.
2.00	1.75	2.01	292.	2.94	426.
2.25	1.00	1.05	152.	2.06	299.
2.25	1.25	1.45	211.	2.46	358.
2.25	1.50	1.85	269.	2.86	416.
2.25	1.75	2.23	324.	3.25	471.
2.50	1.00	1.14	165.	2.24	325.
2.50	1.25	1.58	230.	2.68	389.
2.50	1.50	2.02	293.	3.12	453.
2.50	1.75	2.44	354.	3.54	514.
2.75	1.00	1.23	178.	2.40	349.
2.75	1.25	1.71	248.	2.88	419.
2.75	1.50	2.18	317.	3.36	488.
2.75	1.75	2.64	383.	3.82	554.
3.00	1.00	1.31	190.	2.56	371.
3.00	1.25	1.82	265.	3.07	446.
3.00	1.50	2.33	339.	3.59	520.
3.00	1.75	2.83	410.	4.08	592.

ORIENTATIONS: 67.5 & 112.5 & 247.5 & 292.5

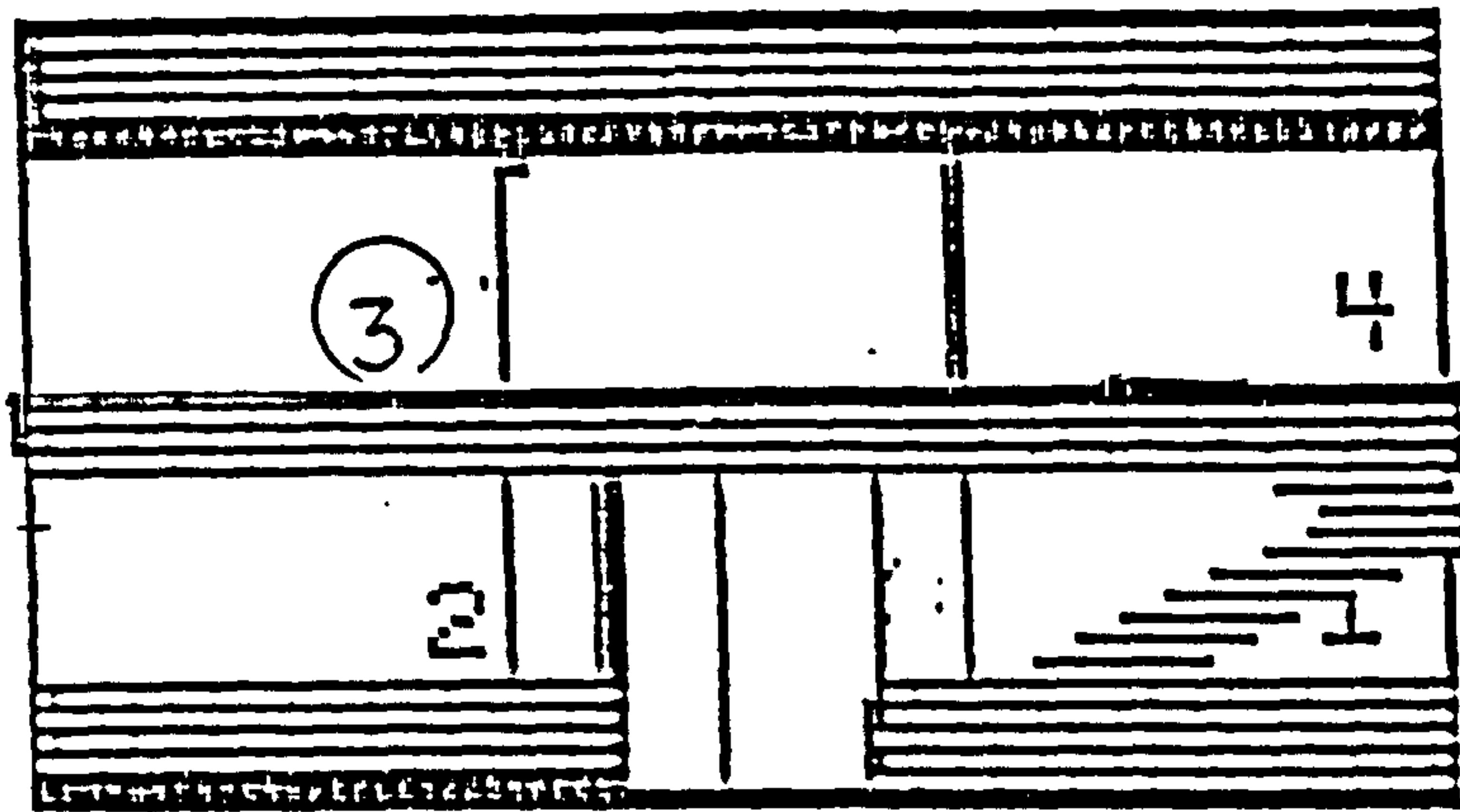
LIVINGROOM WINDOW ON FRONT WALL-GROUND FLOOR
OBST.HIGHT 7.50 POINT DIST. 2.5000

W I N D O W		INTER-HOUSE DIST. = 22.M			
WIDTH	HEIGHT	SKY+EXTERNAL		REFLECTION	
		25%WALLREFL.	70%WALLREFL.	25%WALLREFL.	70%WALLREFL.
		FA %	LUX	FA%	LUX
0.50	1.00	0.27	41.	0.56	84.
0.50	1.25	0.37	56.	0.65	99.
0.50	1.50	0.46	70.	0.75	113.
0.50	1.75	0.55	84.	0.84	127.
0.75	1.00	0.41	61.	0.83	125.
0.75	1.25	0.55	83.	0.97	147.
0.75	1.50	0.69	104.	1.11	168.
0.75	1.75	0.83	125.	1.25	189.
1.00	1.00	0.54	81.	1.09	165.
1.00	1.25	0.72	110.	1.28	194.
1.00	1.50	0.91	138.	1.47	222.
1.00	1.75	1.09	165.	1.65	250.
1.25	1.00	0.66	100.	1.35	204.
1.25	1.25	0.90	136.	1.58	240.
1.25	1.50	1.13	171.	1.82	275.
1.25	1.75	1.35	205.	2.04	309.
1.50	1.00	0.78	118.	1.59	241.
1.50	1.25	1.06	161.	1.87	283.
1.50	1.50	1.34	203.	2.15	325.
1.50	1.75	1.61	243.	2.42	366.
1.75	1.00	0.90	136.	1.83	276.
1.75	1.25	1.22	185.	2.15	325.
1.75	1.50	1.54	233.	2.47	374.
1.75	1.75	1.85	280.	2.78	420.
2.00	1.00	1.01	153.	2.05	310.
2.00	1.25	1.37	208.	2.41	365.
2.00	1.50	1.73	262.	2.77	420.
2.00	1.75	2.08	315.	3.12	472.
2.25	1.00	1.11	168.	2.26	341.
2.25	1.25	1.52	229.	2.66	402.
2.25	1.50	1.92	290.	3.06	463.
2.25	1.75	2.30	349.	3.45	522.
2.50	1.00	1.21	183.	2.45	371.
2.50	1.25	1.65	250.	2.89	437.
2.50	1.50	2.09	316.	3.33	504.
2.50	1.75	2.52	381.	3.76	568.
2.75	1.00	1.30	197.	2.63	398.
2.75	1.25	1.78	269.	3.11	470.
2.75	1.50	2.25	341.	3.58	542.
2.75	1.75	2.72	411.	4.05	612.
3.00	1.00	1.39	210.	2.80	423.
3.00	1.25	1.90	287.	3.31	501.
3.00	1.50	2.41	364.	3.82	578.
3.00	1.75	2.91	440.	4.32	653.

ORIENTATIONS: EAST & WEST

LIVINGROOM WINDOW ON FRONT WALL-GROUND FLOOR
OBST.HIGHT 7.50 POINT DIST. 2.5000

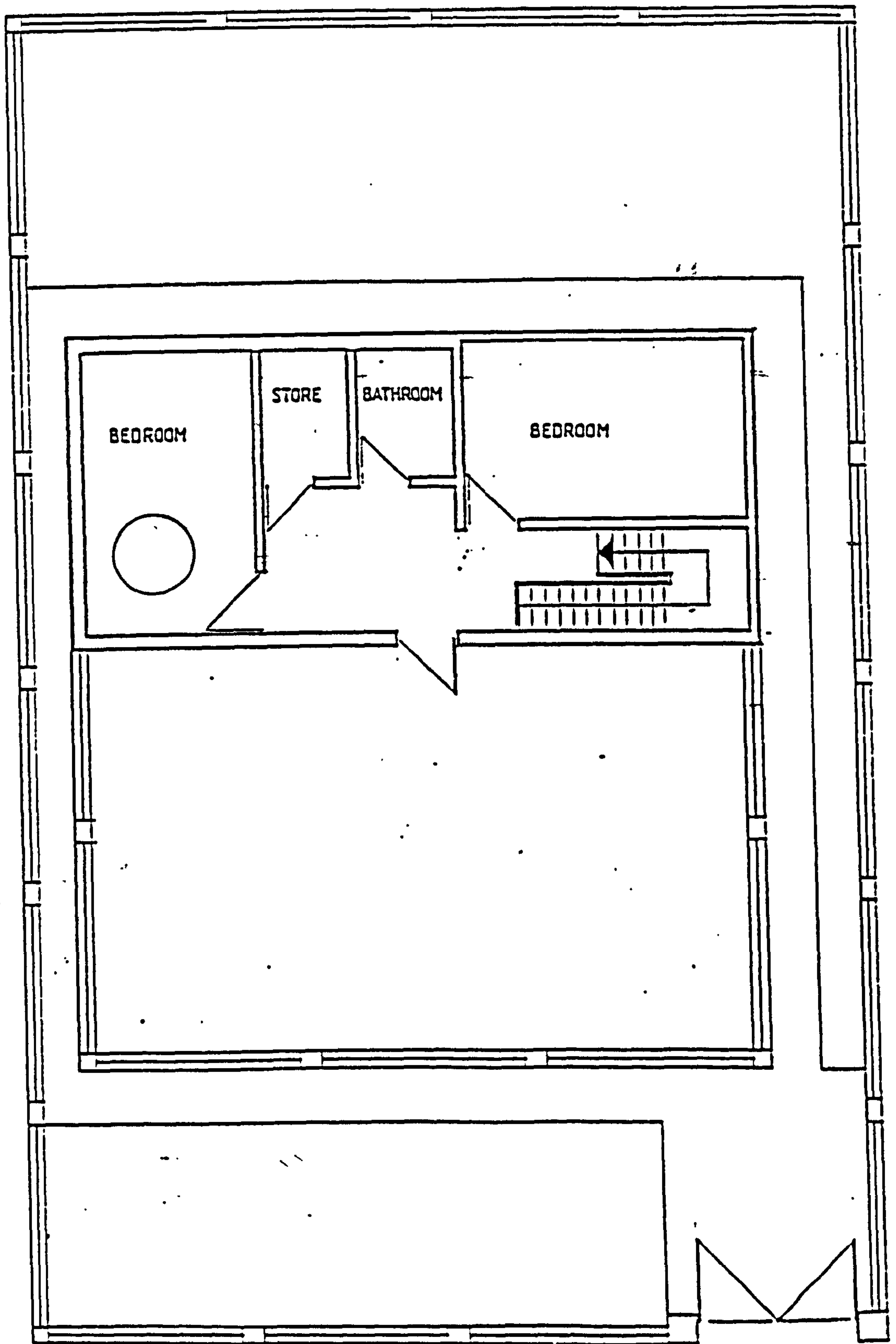
WINDOW		INTER-HOUSE DIST. = 22.M			
WIDTH	HEIGHT	SKY+EXTERNAL REFLECTION		REFLECTION	
		25%WALLREFL.	70%WALLREFL.	70%WALLREFL.	
		FA %	LUX	FA%	LUX
0.50	1.00	0.27	41.	0.55	84.
0.50	1.25	0.36	56.	0.64	98.
0.50	1.50	0.46	70.	0.74	113.
0.50	1.75	0.55	84.	0.83	127.
0.75	1.00	0.40	61.	0.81	124.
0.75	1.25	0.54	83.	0.96	146.
0.75	1.50	0.68	105.	1.10	168.
0.75	1.75	0.82	126.	1.23	189.
1.00	1.00	0.53	81.	1.07	164.
1.00	1.25	0.72	110.	1.26	193.
1.00	1.50	0.91	139.	1.45	222.
1.00	1.75	1.09	166.	1.63	250.
1.25	1.00	0.65	100.	1.32	202.
1.25	1.25	0.89	136.	1.56	238.
1.25	1.50	1.12	171.	1.79	274.
1.25	1.75	1.35	206.	2.02	309.
1.50	1.00	0.77	118.	1.56	239.
1.50	1.25	1.05	161.	1.84	282.
1.50	1.50	1.33	203.	2.12	324.
1.50	1.75	1.60	244.	2.39	365.
1.75	1.00	0.89	135.	1.79	274.
1.75	1.25	1.21	185.	2.12	324.
1.75	1.50	1.53	234.	2.44	373.
1.75	1.75	1.84	281.	2.75	420.
2.00	1.00	0.99	152.	2.01	307.
2.00	1.25	1.36	208.	2.37	363.
2.00	1.50	1.72	263.	2.74	418.
2.00	1.75	2.07	317.	3.09	472.
2.25	1.00	1.10	168.	2.21	339.
2.25	1.25	1.50	229.	2.62	400.
2.25	1.50	1.90	291.	3.02	462.
2.25	1.75	2.29	350.	3.41	521.
2.50	1.00	1.19	182.	2.40	368.
2.50	1.25	1.63	250.	2.84	435.
2.50	1.50	2.07	317.	3.28	502.
2.50	1.75	2.50	382.	3.71	568.
2.75	1.00	1.28	196.	2.58	395.
2.75	1.25	1.76	269.	3.06	468.
2.75	1.50	2.23	342.	3.53	540.
2.75	1.75	2.70	413.	4.00	611.
3.00	1.00	1.37	209.	2.74	420.
3.00	1.25	1.88	287.	3.25	498.
3.00	1.50	2.39	365.	3.77	576.
3.00	1.75	2.88	441.	4.26	652.



Key diagram showing the location
of window data

Front Wall

1 Or 2 Storey



FIRST FLOOR PLAN

ORIENTATIONS: NORTH & SOUTH

BEDROOM -2-
OBST.HIGHT 4.50

FRONT SIDE WINDOW - FIRST FLOOR
POINT DIST. 2.5000

WINDOW		INTER-HOUSE DIST. = 38.M SKY+EXTERNAL REFLECTION			
WIDTH	HEIGHT	25%WALLREFL. FA %	LUX	70%WALLREFL. FA%	LUX
0.50	1.00	0.27	35.	0.30	38.
0.50	1.25	0.37	47.	0.39	50.
0.50	1.50	0.46	59.	0.49	62.
0.50	1.75	0.54	70.	0.57	73.
0.75	1.00	0.40	52.	0.44	57.
0.75	1.25	0.55	70.	0.59	75.
0.75	1.50	0.68	88.	0.72	93.
0.75	1.75	0.81	105.	0.85	110.
1.00	1.00	0.53	68.	0.58	75.
1.00	1.25	0.72	93.	0.78	100.
1.00	1.50	0.91	116.	0.96	123.
1.00	1.75	1.08	139.	1.13	145.
1.25	1.00	0.66	85.	0.72	93.
1.25	1.25	0.90	115.	0.96	124.
1.25	1.50	1.13	145.	1.19	153.
1.25	1.75	1.34	172.	1.41	181.
1.50	1.00	0.78	101.	0.86	110.
1.50	1.25	1.07	137.	1.14	147.
1.50	1.50	1.34	172.	1.42	182.
1.50	1.75	1.60	205.	1.67	215.
1.75	1.00	0.90	116.	0.99	127.
1.75	1.25	1.23	158.	1.32	169.
1.75	1.50	1.55	199.	1.64	210.
1.75	1.75	1.84	237.	1.93	248.
2.00	1.00	1.02	131.	1.12	143.
2.00	1.25	1.39	178.	1.49	191.
2.00	1.50	1.75	225.	1.85	237.
2.00	1.75	2.09	268.	2.19	281.
2.25	1.00	1.13	145.	1.24	159.
2.25	1.25	1.54	198.	1.65	212.
2.25	1.50	1.94	250.	2.05	263.
2.25	1.75	2.32	298.	2.43	312.
2.50	1.00	1.24	159.	1.35	174.
2.50	1.25	1.69	217.	1.81	232.
2.50	1.50	2.13	274.	2.25	289.
2.50	1.75	2.55	327.	2.66	342.
2.75	1.00	1.34	172.	1.46	188.
2.75	1.25	1.83	235.	1.96	251.
2.75	1.50	2.31	297.	2.44	313.
2.75	1.75	2.76	355.	2.89	371.
3.00	1.00	1.43	184.	1.57	201.
3.00	1.25	1.96	252.	2.10	269.
3.00	1.50	2.48	319.	2.62	336.
3.00	1.75	2.97	381.	3.10	398.

ORIENTATIONS: 22.5 & 157.5 & 202.5 & 337.5

BEDROOM -2-
OBST.HIGHT 4.50FRONT SIDE WINDOW - FIRST FLOOR
POINT DIST. 2.5000

W I N D O W		INTER-HOUSE DIST. = 38.M			
WIDTH	HEIGHT	SKY+EXTERNAL REFLECTION		REFLECTION	
		20%WALLREFL.	70%WALLREFL.	FA%	LUX
		FA %	LUX	FA%	LUX
0.50	1.00	0.26	37.	0.29	41.
0.50	1.25	0.36	50.	0.38	54.
0.50	1.50	0.45	63.	0.47	67.
0.50	1.75	0.54	76.	0.56	80.
0.75	1.00	0.39	55.	0.43	60.
0.75	1.25	0.53	75.	0.57	81.
0.75	1.50	0.67	95.	0.71	100.
0.75	1.75	0.80	113.	0.84	119.
1.00	1.00	0.51	73.	0.57	80.
1.00	1.25	0.70	99.	0.75	107.
1.00	1.50	0.89	125.	0.94	133.
1.00	1.75	1.06	150.	1.11	157.
1.25	1.00	0.64	90.	0.70	99.
1.25	1.25	0.87	123.	0.93	132.
1.25	1.50	1.10	155.	1.16	164.
1.25	1.75	1.32	186.	1.38	195.
1.50	1.00	0.76	107.	0.83	117.
1.50	1.25	1.03	146.	1.11	157.
1.50	1.50	1.31	185.	1.38	195.
1.50	1.75	1.57	221.	1.64	232.
1.75	1.00	0.87	123.	0.96	135.
1.75	1.25	1.19	169.	1.28	181.
1.75	1.50	1.51	213.	1.59	225.
1.75	1.75	1.81	256.	1.87	268.
2.00	1.00	0.98	138.	1.08	152.
2.00	1.25	1.34	190.	1.44	204.
2.00	1.50	1.70	241.	1.80	254.
2.00	1.75	2.04	289.	2.14	302.
2.25	1.00	1.08	153.	1.19	168.
2.25	1.25	1.49	211.	1.60	226.
2.25	1.50	1.89	267.	1.99	282.
2.25	1.75	2.27	321.	2.37	335.
2.50	1.00	1.19	167.	1.30	184.
2.50	1.25	1.63	230.	1.74	246.
2.50	1.50	2.07	292.	2.18	308.
2.50	1.75	2.48	351.	2.60	367.
2.75	1.00	1.28	181.	1.40	198.
2.75	1.25	1.76	249.	1.88	266.
2.75	1.50	2.24	316.	2.36	333.
2.75	1.75	2.69	380.	2.81	398.
3.00	1.00	1.37	194.	1.50	212.
3.00	1.25	1.89	267.	2.02	285.
3.00	1.50	2.40	339.	2.53	357.
3.00	1.75	2.87	408.	3.02	427.

ORIENTATIONS: 45.0 & 135.0 & 225.0 & 315.0

BEDROOM -2-
OBST.HIGHT 4.50FRONT SIDE WINDOW - FIRST FLOOR
POINT DIST. 2.5000

W I N D O W		INTER-HOUSE DIST.= 38.M SKY+EXTERNAL REFLECTION			
WIDTH	HEIGHT	25%WALLREFL. FA %	LUX	70%WALLREFL. FA%	LUX
0.50	1.00	0.26	38.	0.28	41.
0.50	1.25	0.35	51.	0.38	55.
0.50	1.50	0.45	65.	0.47	69.
0.50	1.75	0.54	78.	0.56	82.
0.75	1.00	0.39	56.	0.42	62.
0.75	1.25	0.53	77.	0.57	82.
0.75	1.50	0.67	97.	0.71	103.
0.75	1.75	0.80	116.	0.84	122.
1.00	1.00	0.51	74.	0.56	81.
1.00	1.25	0.70	102.	0.75	107.
1.00	1.50	0.89	128.	0.94	136.
1.00	1.75	1.06	154.	1.11	161.
1.25	1.00	0.63	92.	0.69	101.
1.25	1.25	0.87	126.	0.93	133.
1.25	1.50	1.10	159.	1.16	168.
1.25	1.75	1.32	191.	1.38	200.
1.50	1.00	0.75	109.	0.82	119.
1.50	1.25	1.03	149.	1.10	160.
1.50	1.50	1.30	189.	1.38	200.
1.50	1.75	1.57	227.	1.64	238.
1.75	1.00	0.86	125.	0.95	137.
1.75	1.25	1.18	172.	1.27	184.
1.75	1.50	1.50	218.	1.59	230.
1.75	1.75	1.81	262.	1.89	274.
2.00	1.00	0.97	141.	1.07	155.
2.00	1.25	1.34	194.	1.43	207.
2.00	1.50	1.69	246.	1.79	260.
2.00	1.75	2.04	296.	2.13	309.
2.25	1.00	1.07	156.	1.18	171.
2.25	1.25	1.48	215.	1.58	230.
2.25	1.50	1.88	273.	1.98	288.
2.25	1.75	2.26	328.	2.36	343.
2.50	1.00	1.17	170.	1.29	187.
2.50	1.25	1.62	235.	1.73	251.
2.50	1.50	2.05	298.	2.17	314.
2.50	1.75	2.48	359.	2.59	376.
2.75	1.00	1.27	184.	1.39	201.
2.75	1.25	1.75	253.	1.87	271.
2.75	1.50	2.22	323.	2.34	340.
2.75	1.75	2.68	387.	2.80	406.
3.00	1.00	1.35	197.	1.48	215.
3.00	1.25	1.87	271.	2.00	290.
3.00	1.75	2.87	417.	3.00	436.

ORIENTATIONS: 67.5 & 112.5 & 247.5 & 292.5

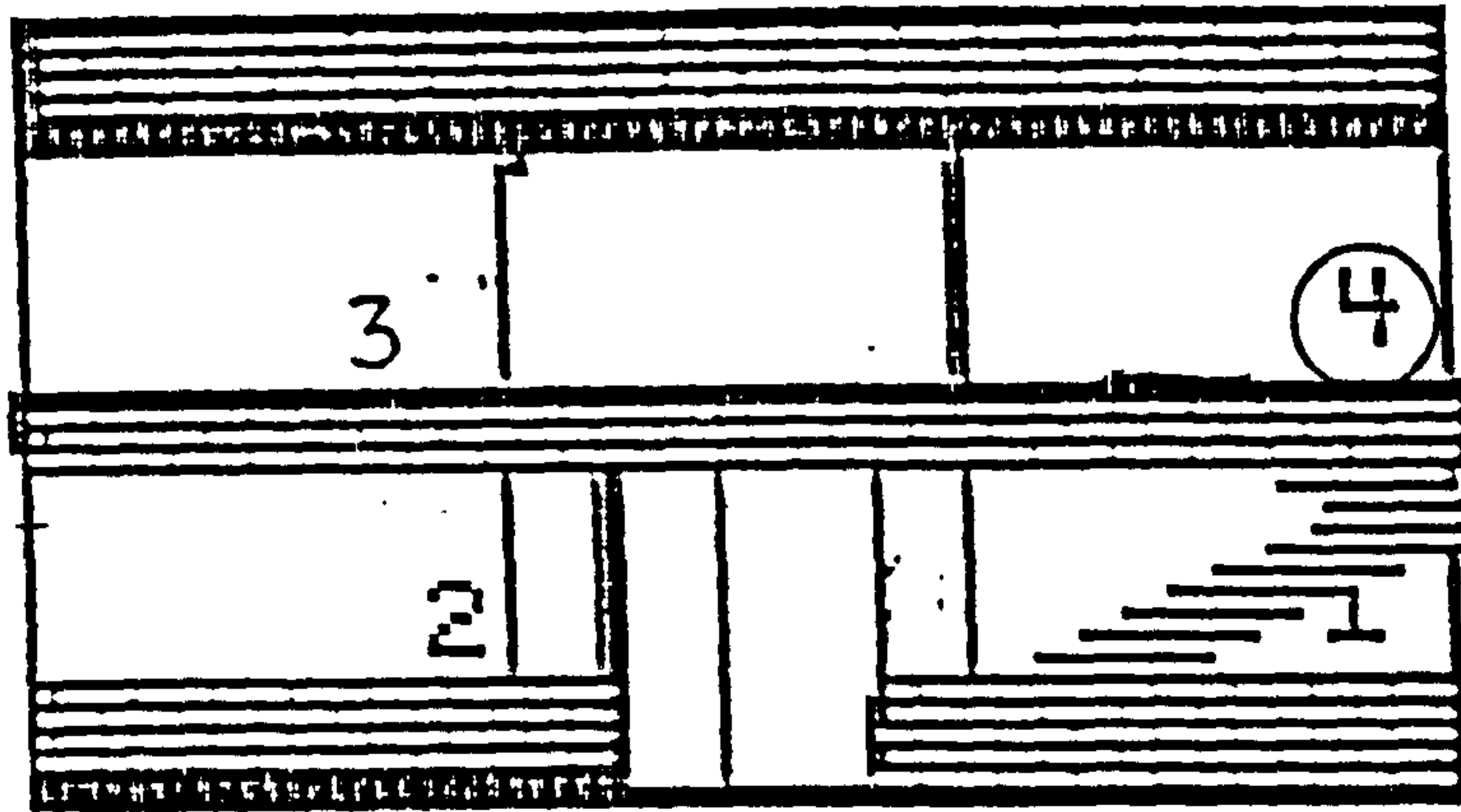
BEDROOM -2- CASE) FRONT SIDE WINDOW - FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 2.5000

WINDOW		INTER-HOUSE DIST.= 38.M			
WIDTH	HEIGHT	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA%	LUX
0.50	1.00	0.26	39.	0.29	44.
0.50	1.25	0.35	54.	0.38	58.
0.50	1.50	0.45	68.	0.48	72.
0.50	1.75	0.54	82.	0.57	86.
0.75	1.00	0.39	58.	0.43	65.
0.75	1.25	0.53	80.	0.57	87.
0.75	1.50	0.67	101.	0.71	108.
0.75	1.75	0.81	122.	0.85	129.
1.00	1.00	0.51	77.	0.57	86.
1.00	1.25	0.70	106.	0.76	114.
1.00	1.50	0.89	134.	0.94	143.
1.00	1.75	1.07	161.	1.12	170.
1.25	1.00	0.63	95.	0.70	106.
1.25	1.25	0.86	131.	0.94	142.
1.25	1.50	1.10	166.	1.17	177.
1.25	1.75	1.32	200.	1.39	211.
1.50	1.00	0.75	113.	0.83	126.
1.50	1.25	1.03	155.	1.11	168.
1.50	1.50	1.30	197.	1.39	210.
1.50	1.75	1.57	237.	1.65	250.
1.75	1.00	0.86	130.	0.95	144.
1.75	1.25	1.18	179.	1.28	193.
1.75	1.50	1.50	227.	1.60	242.
1.75	1.75	1.81	274.	1.91	288.
2.00	1.00	0.96	146.	1.07	162.
2.00	1.25	1.33	201.	1.44	217.
2.00	1.50	1.69	256.	1.80	272.
2.00	1.75	2.04	308.	2.15	325.
2.25	1.00	1.07	161.	1.19	179.
2.25	1.25	1.47	222.	1.59	240.
2.25	1.50	1.87	283.	1.99	301.
2.25	1.75	2.26	342.	2.38	360.
2.50	1.00	1.16	176.	1.27	175.
2.50	1.25	1.60	243.	1.73	262.
2.50	1.50	2.04	309.	2.17	329.
2.50	1.75	2.47	374.	2.60	393.
2.75	1.00	1.25	190.	1.39	210.
2.75	1.25	1.73	262.	1.87	283.
3.00	1.00	1.34	202.	1.48	225.
3.00	1.25	1.85	280.	2.00	302.
3.00	1.50	2.36	357.	2.51	379.
3.00	1.75	2.86	432.	3.00	455.

ORIENTATIONS : EAST & WEST

BEDROOM -2-
OBST.HIGHT 4.50FRONT SIDE WINDOW - FIRST FLOOR
POINT DIST. 2.5000

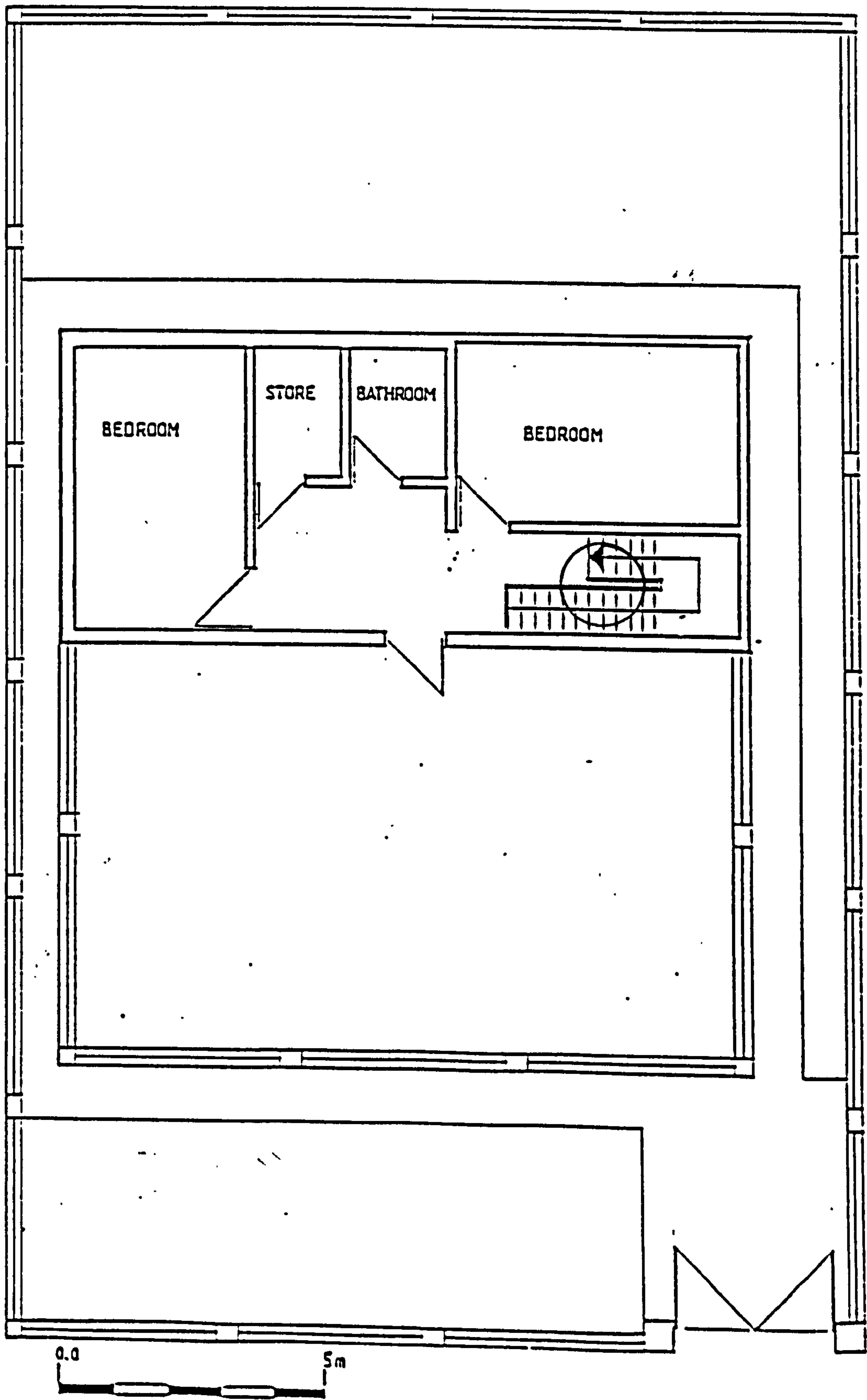
W I N D O W		INTER-HOUSE DIST. = 38.M			
WIDTH	HEIGHT	SKY+EXTERNAL REFLECTION		REFLECTION	
		25%WALLREFL.	70%WALLREFL.	25%WALLREFL.	70%WALLREFL.
		FA %	LUX	FA%	LUX
0.50	1.00	0.26	39.	0.29	44.
0.50	1.25	0.35	54.	0.38	58.
0.50	1.50	0.45	69.	0.48	73.
0.50	1.75	0.54	83.	0.57	87.
0.75	1.00	0.38	59.	0.43	65.
0.75	1.25	0.53	81.	0.57	87.
0.75	1.50	0.67	102.	0.71	109.
0.75	1.75	0.81	123.	0.85	130.
1.00	1.00	0.51	77.	0.56	86.
1.00	1.25	0.70	106.	0.75	115.
1.00	1.50	0.88	135.	0.94	144.
1.00	1.75	1.07	163.	1.12	172.
1.25	1.00	0.63	96.	0.70	106.
1.25	1.25	0.86	132.	0.93	142.
1.25	1.50	1.09	167.	1.16	178.
1.25	1.75	1.32	202.	1.39	213.
1.50	1.00	0.74	114.	0.82	126.
1.50	1.25	1.02	156.	1.10	169.
1.50	1.50	1.30	199.	1.38	211.
1.50	1.75	1.57	240.	1.65	252.
1.75	1.00	0.85	130.	0.95	145.
1.75	1.25	1.17	180.	1.27	194.
1.75	1.50	1.50	229.	1.59	243.
1.75	1.75	1.81	276.	1.90	291.
2.00	1.00	0.96	147.	1.06	163.
2.00	1.25	1.32	202.	1.43	218.
2.00	1.50	1.68	258.	1.79	274.
2.00	1.75	2.03	311.	2.14	327.
2.25	1.00	1.06	162.	1.18	180.
2.25	1.25	1.46	224.	1.58	241.
2.25	1.50	1.86	285.	1.98	303.
2.25	1.75	2.25	345.	2.37	362.
2.50	1.00	1.15	177.	1.28	196.
2.50	1.25	1.60	244.	1.72	263.
2.50	1.50	2.04	311.	2.16	330.
2.50	1.75	2.46	377.	2.59	396.
2.75	1.00	1.24	190.	1.38	211.
2.75	1.25	1.72	263.	1.85	284.
2.75	1.50	2.20	336.	2.33	357.
2.75	1.75	2.66	407.	2.79	427.
3.00	1.00	1.33	203.	1.47	225.
3.00	1.25	1.84	281.	1.98	303.
3.00	1.50	2.35	359.	2.49	381.
3.00	1.75	2.85	435.	2.99	457.



Key diagram showing the location
of window data

Front Wall

1 Or 2 Storey



FIRST FLOOR PLAN

ORIENTATIONS : EAST & WEST

STAIRCASE FRONT SIDE WINDOW - FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 1.2500

W I N D O W		INTER-HOUSE DIST. = 38.M			
WIDTH	HEIGHT	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX
0.50	1.00	0.73	112.	0.73	112.
0.50	1.25	1.03	138.	1.03	138.
0.50	1.50	1.28	196.	1.28	196.
0.50	1.75	1.48	227.	1.48	227.
0.75	1.00	1.08	165.	1.08	165.
0.75	1.25	1.53	234.	1.53	234.
0.75	1.50	1.90	291.	1.90	291.
0.75	1.75	2.20	336.	2.20	336.
1.00	1.00	1.41	215.	1.41	215.
1.00	1.25	2.00	306.	2.00	306.
1.00	1.50	2.49	381.	2.49	381.
1.00	1.75	2.88	440.	2.88	440.
1.25	1.00	1.71	262.	1.71	262.
1.25	1.25	2.44	373.	2.44	373.
1.25	1.50	3.04	465.	3.04	465.
1.25	1.75	3.52	539.	3.52	539.
1.50	1.00	1.99	304.	1.99	304.
1.50	1.25	2.84	435.	2.84	435.
1.50	1.50	3.55	543.	3.55	543.
1.50	1.75	4.12	630.	4.12	630.
1.75	1.00	2.24	343.	2.24	343.
1.75	1.25	3.21	491.	3.21	491.
1.75	1.50	4.02	614.	4.02	614.
1.75	1.75	4.67	714.	4.67	714.
2.00	1.00	2.46	377.	2.46	377.
2.00	1.25	3.54	541.	3.54	541.
2.00	1.50	4.43	678.	4.43	678.
2.00	1.75	5.16	790.	5.16	790.
2.25	1.00	2.66	407.	2.66	407.
2.25	1.25	3.82	585.	3.82	585.
2.25	1.50	4.81	735.	4.81	735.
2.25	1.75	5.61	858.	5.61	858.
2.50	1.00	2.83	433.	2.83	433.
2.50	1.25	4.08	624.	4.08	624.
2.50	1.50	5.14	785.	5.14	785.
2.50	1.75	6.00	918.	6.00	918.
2.75	1.00	2.98	455.	2.98	455.
2.75	1.25	4.30	657.	4.30	657.
2.75	1.50	5.42	829.	5.42	829.
2.75	1.75	6.35	971.	6.35	971.
3.00	1.00	3.10	474.	3.10	474.
3.00	1.25	4.49	686.	4.49	686.
3.00	1.50	5.67	867.	5.67	867.
3.00	1.75	6.65	1017.	6.65	1017.

ORIENTATIONS : 22.5 & 157.5 & 202.5 & 337.5

STAIRCASE FRONT SIDE WINDOW - FIRST FLOOR
OBST.HIGHT 4.50 POINT DIST. 1.2500

W I N D O W		INTER-HOUSE DIST. = 38.M			
WIDTH	HEIGHT	SKY+EXTERNAL REFLECTION		REFLECTION	
		25%WALLREFL.	70%WALLREFL.	70%WALLREFL.	
		FA %	LUX	FA%	LUX
0.50	1.00	0.71	100.	0.71	100.
0.50	1.25	0.99	140.	0.99	140.
0.50	1.50	1.22	172.	1.22	172.
0.50	1.75	1.39	196.	1.39	196.
0.75	1.00	1.05	149.	1.05	149.
0.75	1.25	1.47	208.	1.47	208.
0.75	1.50	1.80	255.	1.80	255.
0.75	1.75	2.06	291.	2.06	291.
1.00	1.00	1.38	195.	1.38	195.
1.00	1.25	1.93	273.	1.93	273.
1.00	1.50	2.37	335.	2.37	335.
1.00	1.75	2.71	384.	2.71	384.
1.25	1.00	1.69	239.	1.69	239.
1.25	1.25	2.37	335.	2.37	335.
1.25	1.50	2.91	412.	2.91	412.
1.25	1.75	3.34	471.	3.34	471.
1.50	1.00	1.97	279.	1.97	279.
1.50	1.25	2.78	392.	2.78	392.
1.50	1.50	3.42	484.	3.42	484.
1.50	1.75	3.92	555.	3.92	555.
1.75	1.00	2.24	316.	2.24	316.
1.75	1.25	3.15	446.	3.15	446.
1.75	1.50	3.89	550.	3.89	550.
1.75	1.75	4.47	632.	4.47	632.
2.00	1.00	2.48	350.	2.48	350.
2.00	1.25	3.50	494.	3.50	494.
2.00	1.50	4.33	612.	4.33	612.
2.00	1.75	4.98	704.	4.98	704.
2.25	1.00	2.69	380.	2.69	380.
2.25	1.25	3.81	538.	3.81	538.
2.25	1.50	4.72	668.	4.72	668.
2.25	1.75	5.44	769.	5.44	769.
2.50	1.00	2.88	407.	2.88	407.
2.50	1.25	4.09	578.	4.09	578.
2.50	1.50	5.08	718.	5.08	718.
2.50	1.75	5.86	829.	5.86	829.
2.75	1.00	3.04	430.	3.04	430.
2.75	1.25	4.33	612.	4.33	612.
2.75	1.50	5.40	763.	5.40	763.
2.75	1.75	6.24	882.	6.24	882.
3.00	1.00	3.19	451.	3.19	451.
3.00	1.25	4.55	643.	4.55	643.
3.00	1.50	5.68	802.	5.68	802.
3.00	1.75	6.58	930.	6.58	930.

ORIENTATIONS : 45.0 & 135.0 & 225.0 & 315.0

STAIRCASE FRONT SIDE WINDOW - FIRST FLOOR
OBST.HIGHT 4.50 POINT DIST. 1.2500

W I N D O W		INTER-HOUSE DIST.= 38.M SKY+EXTERNAL REFLECTION			
WIDTH	HEIGHT	25%WALLREFL. FA %	LUX	70%WALLREFL. FA%	LUX
0.50	1.00	0.72	104.	0.72	104.
0.50	1.25	1.00	146.	1.00	146.
0.50	1.50	1.24	179.	1.24	179.
0.50	1.75	1.42	205.	1.42	205.
0.75	1.00	1.06	154.	1.06	154.
0.75	1.25	1.47	216.	1.47	216.
0.75	1.50	1.83	266.	1.83	266.
0.75	1.75	2.10	305.	2.10	305.
1.00	1.00	1.39	201.	1.39	201.
1.00	1.25	1.95	283.	1.95	283.
1.00	1.50	2.41	349.	2.41	349.
1.00	1.75	2.76	401.	2.76	401.
1.25	1.00	1.70	246.	1.70	246.
1.25	1.25	2.39	347.	2.39	347.
1.25	1.50	2.95	428.	2.95	428.
1.25	1.75	3.39	492.	3.39	492.
1.50	1.00	1.98	287.	1.98	287.
1.50	1.25	2.80	406.	2.80	406.
1.50	1.50	3.46	502.	3.46	502.
1.50	1.75	3.98	578.	3.98	578.
1.75	1.00	2.24	325.	2.24	325.
1.75	1.25	3.17	461.	3.17	461.
1.75	1.50	3.93	571.	3.93	571.
1.75	1.75	4.53	658.	4.53	658.
2.00	1.00	2.48	359.	2.48	359.
2.00	1.25	3.51	510.	3.51	510.
2.00	1.50	4.36	633.	4.36	633.
2.00	1.75	5.04	731.	5.04	731.
2.25	1.00	2.68	389.	2.68	389.
2.25	1.25	3.82	554.	3.82	554.
2.25	1.50	4.75	690.	4.75	690.
2.25	1.75	5.50	798.	5.50	798.
2.50	1.00	2.87	416.	2.87	416.
2.50	1.25	4.09	594.	4.09	594.
2.50	1.50	5.10	741.	5.10	741.
2.50	1.75	5.91	858.	5.91	858.
2.75	1.00	3.03	439.	3.03	439.
2.75	1.25	4.33	628.	4.33	628.
2.75	1.50	5.41	785.	5.41	785.
2.75	1.75	6.28	912.	6.28	912.
3.00	1.00	3.17	460.	3.17	460.
3.00	1.25	4.54	658.	4.54	658.
3.00	1.50	5.68	825.	5.68	825.
3.00	1.75	6.61	960.	6.61	960.

ORIENTATIONS : 67.5 & 112.5 & 247.5 & 292.5

STAIRCASE FRONT SIDE WINDOW - FIRST FLOOR
OBST.HIGHT 4.50 POINT DIST. 1.2500

W I N D O W		INTER-HOUSE DIST. = 38.M			
WIDTH	HEIGHT	SKY+EXTERNAL REFLECTION		REFLECTION	
		25%WALLREFL.	70%WALLREFL.	70%WALLREFL.	
		FA %	LUX	FA%	LUX
0.50	1.00	0.73	110.	0.73	110.
0.50	1.25	1.03	155.	1.03	155.
0.50	1.50	1.27	193.	1.27	193.
0.50	1.75	1.47	222.	1.47	222.
0.75	1.00	1.07	162.	1.07	162.
0.75	1.25	1.52	230.	1.52	230.
0.75	1.50	1.89	285.	1.89	285.
0.75	1.75	2.17	329.	2.17	329.
1.00	1.00	1.40	212.	1.40	212.
1.00	1.25	1.99	301.	1.99	301.
1.00	1.50	2.47	374.	2.47	374.
1.00	1.75	2.85	432.	2.85	432.
1.25	1.00	1.71	258.	1.71	258.
1.25	1.25	2.43	367.	2.43	367.
1.25	1.50	3.02	457.	3.02	457.
1.25	1.75	3.49	528.	3.49	528.
1.50	1.00	1.99	301.	1.99	301.
1.50	1.25	2.83	429.	2.83	429.
1.50	1.50	3.53	534.	3.53	534.
1.50	1.75	4.09	619.	4.09	619.
1.75	1.00	2.24	339.	2.24	339.
1.75	1.25	3.20	484.	3.20	484.
1.75	1.50	4.00	605.	4.00	605.
1.75	1.75	4.64	702.	4.64	702.
2.00	1.00	2.47	373.	2.47	373.
2.00	1.25	3.53	534.	3.53	534.
2.00	1.50	4.42	669.	4.42	669.
2.00	1.75	5.14	777.	5.14	777.
2.25	1.00	2.67	403.	2.67	403.
2.25	1.25	3.83	579.	3.83	579.
2.25	1.50	4.80	726.	4.80	726.
2.25	1.75	5.59	845.	5.59	845.
2.50	1.00	2.84	430.	2.84	430.
2.50	1.25	4.08	618.	4.08	618.
2.50	1.50	5.13	776.	5.13	776.
2.50	1.75	5.99	906.	5.99	906.
2.75	1.00	2.99	452.	2.99	452.
2.75	1.25	4.31	652.	4.31	652.
2.75	1.50	5.42	820.	5.42	820.
2.75	1.75	6.34	959.	6.34	959.
3.00	1.00	3.12	472.	3.12	472.
3.00	1.25	4.50	681.	4.50	681.
3.00	1.50	5.68	859.	5.68	859.
3.00	1.75	6.65	1006.	6.65	1006.

ORIENTATIONS : NORTH & SOUTH

STAIRCASE FRONT SIDE WINDOW - FIRST FLOOR
 OBST.HIGHT 4.50 POINT DIST. 1.2500

W I N D O W		INTER-HOUSE DIST. = 38.M			
WIDTH	HEIGHT	SKY+EXTERNAL 25%WALLREFL. FA %	REFLECTION 70%WALLREFL. LUX	FA%	LUX
0.50	1.00	0.70	90.	0.70	90.
0.50	1.25	0.97	125.	0.97	125.
0.50	1.50	1.18	152.	1.18	152.
0.50	1.75	1.34	172.	1.34	172.
0.75	1.00	1.05	134.	1.05	134.
0.75	1.25	1.45	186.	1.45	186.
0.75	1.50	1.76	226.	1.76	226.
0.75	1.75	1.99	256.	1.99	256.
1.00	1.00	1.38	177.	1.38	177.
1.00	1.25	1.90	244.	1.90	244.
1.00	1.50	2.32	297.	2.32	297.
1.00	1.75	2.63	337.	2.63	337.
1.25	1.00	1.69	217.	1.69	217.
1.25	1.25	2.34	301.	2.34	301.
1.25	1.50	2.85	366.	2.85	366.
1.25	1.75	3.24	416.	3.24	416.
1.50	1.00	1.98	255.	1.98	255.
1.50	1.25	2.75	354.	2.75	354.
1.50	1.50	3.36	431.	3.36	431.
1.50	1.75	3.82	490.	3.82	490.
1.75	1.00	2.26	290.	2.26	290.
1.75	1.25	3.14	403.	3.14	403.
1.75	1.50	3.84	493.	3.84	493.
1.75	1.75	4.37	561.	4.37	561.
2.00	1.00	2.51	322.	2.51	322.
2.00	1.25	3.50	449.	3.50	449.
2.00	1.50	4.28	550.	4.28	550.
2.00	1.75	4.88	627.	4.88	627.
2.25	1.00	2.74	351.	2.74	351.
2.25	1.25	3.83	491.	3.83	491.
2.25	1.50	4.69	602.	4.69	602.
2.25	1.75	5.35	687.	5.35	687.
2.50	1.00	2.94	378.	2.94	378.
2.50	1.25	4.12	529.	4.12	529.
2.50	1.50	5.06	650.	5.06	650.
2.50	1.75	5.79	743.	5.79	743.
2.75	1.00	3.13	401.	3.13	401.
2.75	1.25	4.39	564.	4.39	564.
2.75	1.50	5.40	694.	5.40	694.
2.75	1.75	6.17	774.	6.17	774.
3.00	1.00	3.29	422.	3.29	422.
3.00	1.25	4.63	594.	4.63	594.
3.00	1.50	5.71	733.	5.71	733.
3.00	1.75	6.55	840.	6.55	840.

NO OBSTRUCTIONS

ORIENTATIONS : NORTH & SOUTH

N O O B S T R U C T I O N
POINT DIST. 2.5000

W I N D O W		INTER-HOUSE DIST.=300.M		REFLECTION	
WIDTH	HEIGHT	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	70%WALLREFL. FA%	LUX
0.50	1.00	0.28	35.	0.28	36.
0.50	1.25	0.37	48.	0.37	48.
0.50	1.50	0.47	60.	0.47	60.
0.50	1.75	0.55	71.	0.55	71.
0.75	1.00	0.41	53.	0.41	53.
0.75	1.25	0.56	71.	0.56	72.
0.75	1.50	0.69	89.	0.70	89.
0.75	1.75	0.82	106.	0.83	106.
1.00	1.00	0.55	70.	0.55	70.
1.00	1.25	0.74	95.	0.74	95.
1.00	1.50	0.92	118.	0.92	118.
1.00	1.75	1.09	140.	1.09	141.
1.25	1.00	0.68	87.	0.68	87.
1.25	1.25	0.91	117.	0.92	118.
1.25	1.50	1.14	147.	1.14	147.
1.25	1.75	1.36	174.	1.36	174.
1.50	1.00	0.80	103.	0.80	103.
1.50	1.25	1.09	140.	1.09	140.
1.50	1.50	1.36	175.	1.36	175.
1.50	1.75	1.62	208.	1.62	208.
1.75	1.00	0.93	119.	0.93	119.
1.75	1.25	1.25	161.	1.26	161.
1.75	1.50	1.57	202.	1.57	202.
1.75	1.75	1.87	240.	1.87	240.
2.00	1.00	1.05	134.	1.05	134.
2.00	1.25	1.42	182.	1.42	182.
2.00	1.50	1.78	228.	1.78	228.
2.00	1.75	2.11	271.	2.11	271.
2.25	1.00	1.16	149.	1.16	149.
2.25	1.25	1.57	202.	1.57	202.
2.25	1.50	1.97	253.	1.98	254.
2.25	1.75	2.35	302.	2.35	302.
2.50	1.00	1.27	163.	1.27	163.
2.50	1.25	1.72	221.	1.72	221.
2.50	1.50	2.16	278.	2.17	278.
2.50	1.75	2.58	331.	2.58	331.
2.75	1.00	1.37	176.	1.38	177.
2.75	1.25	1.87	240.	1.87	240.
2.75	1.50	2.35	301.	2.35	301.
2.75	1.75	2.80	359.	2.80	359.
3.00	1.00	1.47	189.	1.47	189.
3.00	1.25	2.00	257.	2.01	257.
3.00	1.50	2.52	324.	2.52	324.
3.00	1.75	3.01	386.	3.01	386.

ORIENTATIONS : 22.5 & 157.5 & 202.5 & 337.5

NO OBSTRUCTION
POINT DIST. 2.5000

WINDOW		INTER-HOUSE DIST.=300.M		REFLECTION	
WIDTH	HEIGHT	SKY+EXTERNAL 25%WALLREFL. FA %	LUX	70%WALLREFL. FA%	LUX
0.50	1.00	0.27	38.	0.27	38.
0.50	1.25	0.36	51.	0.36	51.
0.50	1.50	0.46	64.	0.46	64.
0.50	1.75	0.54	77.	0.54	77.
0.75	1.00	0.40	56.	0.40	56.
0.75	1.25	0.54	76.	0.54	77.
0.75	1.50	0.68	96.	0.68	96.
0.75	1.75	0.81	115.	0.81	115.
1.00	1.00	0.53	74.	0.53	75.
1.00	1.25	0.72	101.	0.72	101.
1.00	1.50	0.90	127.	0.90	127.
1.00	1.75	1.08	152.	1.08	152.
1.25	1.00	0.65	92.	0.65	92.
1.25	1.25	0.89	125.	0.89	125.
1.25	1.50	1.12	158.	1.12	158.
1.25	1.75	1.33	188.	1.33	189.
1.50	1.00	0.77	109.	0.78	110.
1.50	1.25	1.05	149.	1.05	149.
1.50	1.50	1.33	187.	1.33	188.
1.50	1.75	1.59	224.	1.59	224.
1.75	1.00	0.89	126.	0.89	126.
1.75	1.25	1.21	172.	1.21	172.
1.75	1.50	1.53	216.	1.53	216.
1.75	1.75	1.83	259.	1.83	259.
2.00	1.00	1.00	142.	1.01	142.
2.00	1.25	1.37	193.	1.37	194.
2.00	1.50	1.73	244.	1.73	244.
2.00	1.75	2.07	292.	2.07	292.
2.25	1.00	1.11	157.	1.11	157.
2.25	1.25	1.52	214.	1.52	215.
2.25	1.50	1.92	271.	1.92	271.
2.25	1.75	2.30	324.	2.30	325.
2.50	1.00	1.22	172.	1.22	172.
2.50	1.25	1.66	235.	1.66	235.
2.50	1.50	2.10	296.	2.10	296.
2.50	1.75	2.51	355.	2.52	355.
2.75	1.00	1.31	186.	1.31	186.
2.75	1.25	1.79	254.	1.80	254.
2.75	1.50	2.27	321.	2.27	321.
2.75	1.75	2.72	385.	2.72	385.
3.00	1.00	1.40	199.	1.41	199.
3.00	1.25	1.92	272.	1.92	272.
3.00	1.50	2.43	344.	2.43	344.
3.00	1.75	2.92	413.	2.92	413.

ORIENTATIONS : 45.0 & 135.0 & 225.0 & 315.0

NO OBSTRUCTION
POINT DIST. 2.5000

WINDOW		INTER-HOUSE DIST.=300.M			
WIDTH	HEIGHT	SKY+EXTERNAL		REFLECTION	
		25%WALLREFL.	70%WALLREFL.	70%WALLREFL.	70%WALLREFL.
		FA %	LUX	FA%	LUX
0.50	1.00	0.27	39.	0.27	39.
0.50	1.25	0.36	52.	0.36	52.
0.50	1.50	0.45	66.	0.45	66.
0.50	1.75	0.54	79.	0.54	79.
0.75	1.00	0.40	57.	0.40	58.
0.75	1.25	0.54	78.	0.54	78.
0.75	1.50	0.68	98.	0.68	99.
0.75	1.75	0.81	118.	0.81	118.
1.00	1.00	0.52	76.	0.52	76.
1.00	1.25	0.71	103.	0.71	104.
1.00	1.50	0.90	130.	0.90	130.
1.00	1.75	1.07	156.	1.08	156.
1.25	1.00	0.65	94.	0.65	94.
1.25	1.25	0.88	128.	0.88	128.
1.25	1.50	1.11	162.	1.11	162.
1.25	1.75	1.33	193.	1.33	194.
1.50	1.00	0.77	112.	0.77	112.
1.50	1.25	1.05	152.	1.05	152.
1.50	1.50	1.32	192.	1.32	192.
1.50	1.75	1.58	230.	1.58	230.
1.75	1.00	0.88	128.	0.89	128.
1.75	1.25	1.21	175.	1.21	175.
1.75	1.50	1.52	221.	1.52	221.
1.75	1.75	1.83	265.	1.83	265.
2.00	1.00	1.00	145.	1.00	145.
2.00	1.25	1.36	197.	1.36	197.
2.00	1.50	1.72	249.	1.72	250.
2.00	1.75	2.06	299.	2.06	300.
2.25	1.00	1.10	160.	1.10	160.
2.25	1.25	1.51	219.	1.51	219.
2.25	1.50	1.91	277.	1.91	277.
2.25	1.75	2.29	332.	2.29	332.
2.50	1.00	1.20	175.	1.20	175.
2.50	1.25	1.65	239.	1.65	239.
2.50	1.50	2.08	303.	2.09	303.
2.50	1.75	2.51	364.	2.51	364.
2.75	1.00	1.30	188.	1.30	189.
2.75	1.25	1.78	258.	1.78	258.
2.75	1.50	2.25	327.	2.26	327.
2.75	1.75	2.71	394.	2.71	394.
3.00	1.00	1.39	202.	1.39	202.
3.00	1.25	1.90	276.	1.91	277.
3.00	1.50	2.42	351.	2.42	351.
3.00	1.75	2.91	422.	2.91	422.

ORIENTATIONS : 67.5 & 112.5 & 247.5 & 292.5

NO OBSTRUCTION
POINT DIST. 2.5000

WINDOW		INTER-HOUSE DIST.=300.M SKY+EXTERNAL REFLECTION			
WIDTH	HEIGHT	25%WALLREFL. FA %	LUX	70%WALLREFL. FA%	LUX
0.50	1.00	0.26	40.	0.26	40.
0.50	1.25	0.36	54.	0.36	54.
0.50	1.50	0.45	68.	0.45	69.
0.50	1.75	0.54	82.	0.54	82.
0.75	1.00	0.39	59.	0.39	59.
0.75	1.25	0.53	81.	0.53	81.
0.75	1.50	0.68	102.	0.68	102.
0.75	1.75	0.81	123.	0.81	123.
1.00	1.00	0.52	78.	0.52	78.
1.00	1.25	0.71	107.	0.71	107.
1.00	1.50	0.89	135.	0.89	135.
1.00	1.75	1.07	163.	1.08	163.
1.25	1.00	0.64	97.	0.64	97.
1.25	1.25	0.87	132.	0.88	132.
1.25	1.50	1.11	167.	1.11	168.
1.25	1.75	1.33	201.	1.33	202.
1.50	1.00	0.76	115.	0.76	115.
1.50	1.25	1.04	157.	1.04	157.
1.50	1.50	1.31	199.	1.31	199.
1.50	1.75	1.58	239.	1.58	239.
1.75	1.00	0.87	132.	0.87	132.
1.75	1.25	1.19	181.	1.19	181.
1.75	1.50	1.51	229.	1.51	229.
1.75	1.75	1.82	276.	1.82	276.
2.00	1.00	0.98	148.	0.98	148.
2.00	1.25	1.34	203.	1.34	203.
2.00	1.50	1.70	258.	1.71	258.
2.00	1.75	2.05	311.	2.05	311.
2.25	1.00	1.08	164.	1.08	164.
2.25	1.25	1.49	225.	1.49	225.
2.25	1.50	1.89	286.	1.89	286.
2.25	1.75	2.28	344.	2.28	344.
2.50	1.00	1.18	179.	1.18	179.
2.50	1.25	1.62	245.	1.62	245.
2.50	1.50	2.06	312.	2.06	312.
2.50	1.75	2.49	376.	2.49	376.
2.75	1.00	1.27	193.	1.27	193.
2.75	1.25	1.75	265.	1.75	265.
2.75	1.50	2.23	337.	2.23	337.
2.75	1.75	2.69	407.	2.69	407.
3.00	1.00	1.36	206.	1.36	206.
3.00	1.25	1.87	283.	1.87	283.
3.00	1.50	2.38	360.	2.38	361.
3.00	1.75	2.88	436.	2.88	436.

ORIENTATIONS : EAST & WEST

NO OBSTRUCTION
POINT DIST. 2.5000

WINDOW		INTER-HOUSE DIST.=300.M			
WIDTH	HEIGHT	SKY+EXTERNAL REFLECTION		REFLECTION	
		25%WALLREFL.	70%WALLREFL.	70%WALLREFL.	
		FA %	LUX	FA%	LUX
0.50	1.00	0.26	40.	0.26	40.
0.50	1.25	0.36	55.	0.36	55.
0.50	1.50	0.45	69.	0.45	69.
0.50	1.75	0.54	83.	0.54	83.
0.75	1.00	0.39	60.	0.39	60.
0.75	1.25	0.53	81.	0.53	82.
0.75	1.50	0.67	103.	0.68	103.
0.75	1.75	0.81	124.	0.81	124.
1.00	1.00	0.52	79.	0.52	79.
1.00	1.25	0.70	108.	0.71	108.
1.00	1.50	0.89	137.	0.89	137.
1.00	1.75	1.07	164.	1.08	164.
1.25	1.00	0.64	97.	0.64	98.
1.25	1.25	0.87	133.	0.87	133.
1.25	1.50	1.11	169.	1.11	169.
1.25	1.75	1.33	203.	1.33	204.
1.50	1.00	0.75	115.	0.76	116.
1.50	1.25	1.03	158.	1.03	158.
1.50	1.50	1.31	201.	1.31	201.
1.50	1.75	1.58	242.	1.58	242.
1.75	1.00	0.87	133.	0.87	133.
1.75	1.25	1.19	182.	1.19	182.
1.75	1.50	1.51	231.	1.51	231.
1.75	1.75	1.82	278.	1.82	278.
2.00	1.00	0.97	149.	0.98	149.
2.00	1.25	1.34	205.	1.34	205.
2.00	1.50	1.70	260.	1.70	260.
2.00	1.75	2.05	314.	2.05	314.
2.25	1.00	1.08	165.	1.08	165.
2.25	1.25	1.48	226.	1.48	226.
2.25	1.50	1.88	288.	1.88	288.
2.25	1.75	2.27	347.	2.27	348.
2.50	1.00	1.17	180.	1.18	180.
2.50	1.25	1.61	247.	1.62	247.
2.50	1.50	2.05	314.	2.06	314.
2.50	1.75	2.48	380.	2.48	380.
2.75	1.00	1.27	194.	1.27	194.
2.75	1.25	1.74	266.	1.74	266.
2.75	1.50	2.22	339.	2.22	339.
2.75	1.75	2.68	410.	2.68	410.
3.00	1.00	1.35	207.	1.35	207.
3.00	1.25	1.86	285.	1.86	285.
3.00	1.50	2.37	363.	2.37	363.
3.00	1.75	2.87	439.	2.87	439.