



เอกสารอ้างอิง

คณะสิ่งแวดล้อมและทรัพยากรศาสตร์ มหาวิทยาลัยมหิดล และ บริษัท ไทยเทรอดแพร์ จำกัด.
การออกแบบ การเลือกใช้วัสดุ และเทคโนโลยีเพื่อการประหยัดพลังงานในอาคาร.
กรุงเทพมหานคร: คณะสิ่งแวดล้อมและทรัพยากรศาสตร์ มหาวิทยาลัยมหิดล และ บริษัท
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Time	OS1	IS1	OS2	IS2	OS3	IS3	OA	IA	OS5	IS5	OS6	IS6	OS7	IS7	WB	Rad	OS8	IS8	OS4	IS4	WS	Remark
00.00	25.96	22.62	25.81	23.18	25.98	22.27	26.73	22.22	26.20	22.39	25.65	24.09	26.63	24.31	25.25	22.58						
00.30	25.89	22.09	25.76	22.90	25.98	22.29	26.77	19.73	26.17	22.37	25.66	23.93	26.44	23.77	25.06	22.77						13/02/94
01.00	25.67	22.19	25.51	22.71	25.78	21.94	26.71	21.68	26.00	22.12	25.44	23.77	26.40	23.84	24.93	22.42						
01.30	25.53	22.83	25.31	23.27	25.53	22.49	26.52	22.63	25.72	22.50	25.16	23.80	26.09	23.96	24.54	22.81						
02.00	25.45	21.40	25.25	22.03	25.59	21.84	26.53	20.00	25.60	21.84	25.20	23.44	26.22	23.20	25.34	22.13						
02.30	24.98	22.13	24.87	22.52	24.94	21.82	25.74	21.76	25.28	21.98	24.71	23.44	25.54	23.47	25.12	22.32						
03.00	24.10	22.51	23.98	22.75	24.16	22.18	24.79	22.30	24.68	22.25	24.28	23.43	25.16	23.51	23.37	22.69						
03.30	23.87	21.29	23.72	21.96	23.97	21.72	24.76	18.76	24.43	21.75	24.22	23.10	25.50	22.79	24.19	22.53						
04.00	23.74	21.22	23.55	21.45	23.77	21.26	24.51	20.44	24.14	21.50	23.95	22.89	24.85	22.85	23.28	22.00						
04.30	23.72	21.50	23.40	21.68	23.59	21.32	24.33	21.16	23.95	21.51	23.73	22.81	24.54	22.91	23.25	22.14						
05.00	23.59	21.70	23.33	21.89	23.51	21.47	24.16	21.55	23.77	21.60	23.53	22.72	24.34	22.88	23.61	22.20						
05.30	23.82	21.91	23.33	22.13	23.55	21.85	24.52	21.87	23.73	21.74	23.46	22.66	24.20	22.87	22.87	22.46						
06.00	23.71	22.12	23.40	22.33	23.63	21.86	24.42	22.18	23.80	21.91	23.38	22.64	24.13	22.86	21.73	22.59						
06.30	23.54	22.19	23.36	22.45	23.54	22.01	24.39	21.91	23.76	22.03	23.33	22.61	23.94	22.81	23.20	23.55						
07.00	24.84	20.34	24.09	21.09	24.56	21.12	25.21	17.46	24.52	21.19	23.87	22.22	24.76	21.78	25.07	27.57						Clear Sky
07.30	27.50	20.98	25.41	21.58	25.83	21.31	26.29	20.41	25.57	21.54	24.37	22.35	25.41	22.27	24.87	36.14						Condensation at Glass
08.00	31.22	22.96	29.69	23.50	31.61	22.72	28.99	23.17	28.46	22.73	26.03	22.88	26.75	23.01	24.82	77.29						
08.30	34.77	22.38	32.56	23.19	36.15	22.86	30.61	21.35	31.83	22.23	27.91	22.86	28.41	22.50	25.95	92.03						
09.00	38.55	24.10	35.08	25.03	39.94	24.26	31.87	22.57	34.82	23.12	29.87	23.56	31.86	23.17	25.67	107.17						
09.30	38.09	24.87	35.36	25.81	39.81	24.77	32.54	24.75	36.10	23.75	30.79	24.26	32.84	23.52	25.33	123.46						
10.00	41.99	24.44	36.33	25.36	43.76	24.59	33.29	23.14	39.00	23.63	32.79	24.68	35.16	23.46	26.26	128.21						
10.30	43.67	25.96	40.43	27.08	45.16	26.15	35.88	23.55	40.84	25.04	34.90	25.80	37.12	24.22	25.96	134.73						
11.00	44.19	25.23	41.30	26.63	46.29	25.95	35.18	20.56	41.74	24.82	36.58	26.33	38.51	23.91	27.15	139.32						
11.30	46.00	27.20	43.20	28.07	46.33	26.89	36.49	25.22	43.04	25.54	37.39	27.42	39.40	25.09	25.78	140.07						
12.00	44.47	28.30	42.51	27.78	47.45	26.85	35.36	21.26	42.74	25.47	38.00	27.95	39.77	24.84	27.47	140.82						
12.30	45.93	27.33	43.03	28.23	47.81	27.10	37.87	24.80	42.77	25.69	36.48	28.79	40.42	25.89	27.16	133.72						
13.00	45.43	26.56	42.98	28.06	47.58	27.03	37.57	22.05	42.98	25.74	39.14	29.11	41.05	26.00	26.95	129.74						
13.30	44.14	26.35	42.44	27.53	48.98	26.71	36.55	21.14	42.87	25.77	39.02	29.31	40.44	26.55	28.68	126.54						
14.00	43.74	26.10	41.00	27.61	45.03	26.71	35.84	20.61	41.55	25.72	38.08	29.70	39.02	26.43	28.10	85.46						
14.30	41.79	27.43	40.30	28.46	44.06	27.45	34.91	23.97	40.82	25.87	38.31	30.19	39.14	27.90	26.90	111.59						
15.00	42.61	26.08	41.14	27.14	44.61	26.40	36.23	21.32	41.55	25.50	38.94	30.00	40.21	26.84	27.80	106.83						
15.30	39.86	26.76	38.69	27.75	41.51	26.80	35.21	21.85	39.16	25.96	37.49	30.14	38.16	27.31	26.65	92.87						
16.00	37.55	27.35	36.24	27.57	38.26	26.54	33.62	25.20	36.70	25.80	35.17	30.11	35.82	27.90	26.81	49.86						
16.30	37.12	24.85	35.82	25.51	37.60	24.86	34.39	20.55	36.48	24.85	35.12	29.55	36.36	27.21	26.10	64.36						
17.00	35.02	26.03	34.34	26.63	35.96	25.63	32.89	22.43	34.48	25.07	33.58	29.34	33.91	27.39	26.31	50.93						60% Cloud
17.30	31.49	25.71	31.01	25.80	31.83	24.87	31.12	23.98	31.63	24.53	31.57	28.84	31.88	27.41	25.20	34.98						
18.00	29.35	24.25	29.21	24.53	29.80	23.81	29.85	21.94	29.94	23.71	30.43	28.10	30.77	26.80	25.56	23.86						
18.30	28.40	24.34	28.25	24.95	28.51	23.99	29.02	21.67	28.76	24.19	29.41	27.72	29.78	26.88	25.19	23.65						
19.00	27.94	24.53	27.73	24.63	27.98	23.44	28.52	24.20	28.20	24.11	28.65	27.59	29.09	27.28	25.14	23.75						
19.30	27.43	22.18	27.12	22.42	27.48	21.92	28.04	20.70	27.72	23.27	28.18	26.83	28.73	26.32	26.59	23.79						
20.00	27.07	22.31	26.83	22.75	27.24	21.97	27.88	19.74	27.38	23.17	28.35	26.37	26.71	26.35	25.78	23.55						
20.30	26.89	23.74	26.63	24.02	26.98	22.84	27.75	23.77	26.98	23.61	27.22	26.10	27.87	26.50	25.25	23.58						
21.00	26.48	22.78	26.21	22.84	26.66	22.03	27.35	22.49	26.70	22.99	26.88	25.93	27.88	26.04	25.54	23.23						
21.30	26.81	22.63	26.47	23.26	26.98	22.43	27.79	22.01	26.94	23.71	26.97	25.71	27.80	25.76	25.82	22.88						
22.00	26.57	22.54	26.29	23.34	26.76	22.68	27.62	19.82	26.72	23.06	26.89	25.29	27.53	24.74	26.05	23.11						
22.30	26.57	23.01	26.23	23.48	26.65	22.62	27.45	22.47	26.61	22.83	26.37	24.98	27.19	24.95	25.74	22.88						
23.00	26.77	21.87	26.58	22.83	26.98	22.13	27.59	19.58	26.95	22.38	26.47	24.64	27.39	24.06	24.57	22.45						
23.30	26.24	23.07	25.95	23.49	26.30	22.85	27.04	22.68	26.38	22.78	25.07	24.58	26.72	24.56	25.74	22.89						

00.00	25.75	21.44	25.12	21.57	25.43	20.89	26.62	20.97	25.97	21.44	25.12	22.74	26.49	24.07	25.88	0.01	97.22
00.15	25.45	19.90	24.96	19.96	25.29	18.91	26.19	16.22	25.84	20.23	25.06	22.02	26.40	23.48	21.92	0.01	83.70
00.30	25.55	22.28	24.96	22.49	25.19	21.93	26.50	22.10	25.69	22.11	24.96	23.01	26.22	24.11	25.78	0.01	97.31
00.45	25.63	21.60	25.03	21.82	25.25	21.15	26.63	21.27	25.77	21.56	25.01	22.69	26.16	23.91	25.63	0.01	96.21
01.00	25.46	20.56	24.91	20.66	25.19	20.00	26.09	19.08	25.70	20.78	24.90	22.13	26.14	23.49	25.14	0.00	96.37
01.15	25.15	22.27	24.61	22.51	24.88	21.96	26.14	22.14	25.38	22.16	24.57	22.92	25.85	23.89	24.63	0.00	94.25
01.30	25.09	21.61	24.52	21.75	24.63	21.17	25.80	21.36	25.33	21.55	24.57	22.56	25.78	23.67	24.44	0.01	94.73
01.45	25.42	20.62	24.76	20.72	24.98	20.06	26.24	19.51	25.48	20.86	24.79	22.07	25.86	23.35	24.45	0.00	93.19
02.00	25.19	22.26	24.63	22.52	24.86	21.96	26.11	22.11	25.32	22.14	24.48	22.79	25.75	23.68	26.18	0.01	100.29
02.15	24.92	21.57	24.37	21.76	24.74	21.15	25.87	21.31	25.18	21.50	24.40	22.41	25.63	23.46	26.64	0.01	102.99
02.30	24.27	20.56	23.97	20.81	24.29	20.05	25.21	19.45	24.91	20.79	24.05	21.94	25.39	23.16	25.18	0.01	99.87
02.45	24.30	22.05	23.83	22.16	24.07	21.74	25.08	21.93	24.60	21.94	23.85	22.60	25.20	23.45	22.43	0.01	89.44
03.00	23.78	21.26	23.43	21.28	23.76	20.82	24.66	20.92	24.37	21.24	23.69	22.22	25.04	23.22	24.79	0.00	100.53
03.15	23.75	19.44	23.44	19.34	23.75	18.49	24.59	15.96	24.27	19.61	23.67	21.21	24.95	22.57	24.03	0.01	97.71
03.30	23.72	21.60	23.23	21.66	23.62	21.25	24.41	21.43	24.06	21.51	23.44	22.28	24.74	23.18	24.45	0.01	100.14
03.45	23.60	20.60	23.21	20.58	23.60	20.15	24.49	20.04	24.02	20.77	23.40	21.76	24.73	22.92	24.68	0.01	100.79
04.00	23.54	21.81	23.11	21.91	23.38	21.57	24.09	21.76	23.82	21.72	23.23	22.28	24.53	23.12	24.21	0.01	100.47
04.15	23.85	21.01	23.25	21.06	23.53	20.63	24.51	20.75	23.95	21.04	23.28	21.87	24.55	22.88	23.79	0.01	97.03
04.30	23.84	20.04	23.39	20.06	23.66	19.13	24.65	16.79	23.96	20.14	23.26	21.26	24.56	22.45	19.59	0.01	79.47
04.45	23.85	21.36	23.31	21.49	23.58	21.08	24.36	21.23	23.89	21.33	23.20	21.95	24.38	22.82	24.39	0.00	100.14
05.00	23.75	20.32	23.28	20.34	23.62	19.93	24.48	19.81	23.95	20.59	23.23	21.45	24.35	22.52	23.06	0.01	94.18
05.15	23.75	21.64	23.22	21.81	23.45	21.45	24.79	21.63	23.82	21.56	23.14	22.03	24.27	22.79	24.17	0.00	97.51
05.30	23.65	20.78	23.20	20.84	23.48	20.42	24.49	20.52	23.85	20.84	23.22	21.63	24.22	22.55	24.11	0.00	98.42
05.45	23.53	21.19	23.17	21.32	23.32	20.70	24.47	20.10	23.72	21.24	23.09	21.73	24.15	22.61	22.98	0.00	93.93
06.00	23.50	21.15	23.01	21.26	23.24	20.85	24.32	21.04	23.66	21.13	22.99	21.74	24.01	22.54	24.84	0.00	102.13
06.15	23.35	19.71	23.03	19.77	23.17	19.27	24.08	17.90	23.66	20.15	23.01	21.04	24.05	22.13	24.56	0.01	101.96
06.30	23.32	21.42	22.88	21.55	23.10	21.20	24.19	21.42	23.49	21.40	22.89	21.84	23.89	22.50	23.90	0.01	98.78
06.45	23.68	20.47	23.15	20.47	23.46	20.09	24.41	20.06	23.78	20.65	23.10	21.35	24.02	22.27	24.20	0.03	99.14
07.00	23.65	21.67	23.15	21.85	23.39	21.54	24.26	21.74	23.68	21.62	23.00	21.91	23.89	22.50	24.20	0.00	99.74
07.15	24.19	20.88	23.42	20.98	23.86	20.57	24.69	20.73	24.04	20.91	23.28	21.53	24.07	22.27	24.77	0.22	100.33
07.30	24.70	20.33	23.91	20.52	24.36	19.75	25.01	17.87	24.46	20.52	23.54	21.25	24.29	22.00	24.56	0.28	98.20
07.45	25.11	21.31	24.27	21.59	24.77	21.13	25.41	21.30	24.88	21.31	23.91	21.73	24.49	22.30	24.59	0.31	96.76
08.00	25.86	20.39	24.95	20.61	25.46	20.09	25.95	19.78	25.56	20.61	24.33	21.28	24.91	22.05	25.07	0.44	96.64
08.15	26.61	21.87	25.57	22.33	26.00	21.81	26.27	22.00	26.11	21.84	24.79	22.05	25.14	22.39	25.08	0.63	95.46
08.30	27.43	21.29	26.08	21.71	27.16	21.14	26.53	21.22	26.78	21.27	25.30	21.82	25.50	22.21	25.27	1.08	95.26
08.45	27.82	20.25	26.61	20.70	26.86	20.07	26.77	19.04	27.27	20.60	25.63	21.39	25.97	21.97	25.41	1.31	94.90
09.00	29.81	22.17	28.05	22.82	31.31	22.27	27.16	22.27	28.28	22.09	26.45	22.36	26.49	22.48	25.65	1.82	94.37
09.15	30.93	21.75	28.98	22.51	32.80	21.83	27.93	21.72	29.20	21.70	27.13	22.23	27.26	22.35	25.99	2.10	93.02
09.30	33.16	21.11	30.38	21.98	34.87	21.18	28.51	20.64	30.58	21.20	28.15	22.02	28.22	22.18	25.97	2.60	91.08
09.45	33.42	20.38	31.21	21.46	36.17	20.04	29.59	17.03	31.29	20.66	28.42	21.67	28.49	21.95	26.77	2.83	90.49
10.00	35.72	22.53	32.87	23.85	38.87	22.74	30.77	21.77	32.98	22.34	29.32	22.83	30.45	22.63	26.94	2.75	87.56
10.15	34.75	22.71	32.29	24.15	38.57	23.13	29.84	22.62	32.81	22.51	28.59	23.12	29.18	22.72	26.53	1.46	88.91
10.30	38.82	22.33	35.09	23.76	41.87	22.73	30.99	22.05	35.26	22.25	30.94	23.16	31.03	22.67	25.19	3.97	81.30
10.45	38.06	21.87	34.92	23.40	42.04	22.36	31.84	21.06	35.35	21.95	30.84	23.10	31.30	22.62	26.88	2.82	84.43
11.00	38.67	20.78	35.82	22.39	42.97	20.89	32.01	16.89	36.22	21.21	32.10	22.67	32.09	22.33	26.10	3.39	81.55
11.15	39.36	22.08	36.42	23.70	43.29	22.14	33.22	18.87	36.97	22.05	32.35	23.36	32.83	22.73	26.38	3.43	79.41
11.30	40.62	23.57	37.48	25.28	44.43	24.08	33.09	22.96	37.78	23.34	33.06	24.40	33.56	23.42	25.29	3.66	76.44
11.45	40.40	23.85	37.82	25.56	44.58	24.39	33.47	23.86	38.08	23.86	33.40	24.77	33.80	23.87	25.26	3.75	75.47
12.00	41.25	23.80	38.71	25.64	45.99	24.44	34.35	23.66	39.07	23.71	34.30	25.05	34.49	23.84	27.03	4.14	78.70

12.15	42.22	22.77	39.31	24.62	46.77	23.39	35.49	22.42	39.76	22.99	34.92	24.52	35.10	25.73	25.40	4.11
12.30	41.75	21.75	39.92	23.58	46.67	21.75	35.41	17.68	40.23	22.22	35.50	24.45	36.71	23.39	27.93	78.88
12.45	43.04	22.42	40.67	24.23	47.60	22.45	35.69	18.82	41.00	22.81	36.35	24.91	36.48	23.80	29.19	81.78
13.00	43.31	23.87	40.99	25.76	47.89	24.01	35.44	21.22	41.36	23.75	36.55	25.90	36.50	24.45	28.23	79.66
13.15	43.82	24.36	41.70	26.28	48.48	24.97	35.21	23.81	41.91	24.21	38.13	26.33	37.67	24.82	27.38	77.77
13.30	41.80	23.64	40.55	25.51	47.04	24.17	37.22	22.68	41.13	23.69	36.70	26.30	37.20	24.83	28.12	75.54
13.45	41.95	22.18	41.00	23.89	47.60	22.44	37.09	18.98	41.33	22.69	37.40	25.82	37.66	24.58	28.05	75.62
14.00	42.36	23.29	41.86	25.02	48.26	23.55	38.31	19.30	41.74	23.32	38.00	26.61	38.22	24.89	25.96	67.75
14.15	41.68	24.76	40.85	26.55	47.22	25.09	37.26	22.90	41.09	24.39	37.51	27.41	37.73	25.64	26.59	71.34
14.30	41.38	24.25	41.01	25.87	47.27	24.70	39.19	23.26	41.20	24.01	38.30	27.29	38.36	25.73	25.63	65.42
14.45	41.29	23.20	41.06	24.75	46.94	23.58	39.51	21.36	41.07	23.23	38.08	27.05	38.47	25.57	26.16	66.23
15.00	39.97	22.56	40.24	24.05	45.96	22.30	37.28	18.08	40.32	22.68	37.59	26.59	38.21	25.43	26.70	71.63
15.15	39.63	23.58	39.63	24.85	45.28	23.53	38.61	19.70	39.91	23.39	37.57	27.47	38.03	25.84	25.78	66.76
15.30	39.61	24.88	39.25	26.19	44.87	25.11	37.39	24.09	39.53	24.33	37.58	27.97	38.27	26.51	25.53	68.26
15.45	39.23	24.16	39.06	25.27	44.35	24.18	38.62	23.04	39.45	23.74	37.84	27.75	37.77	26.45	25.40	65.77
16.00	38.24	23.18	38.13	24.08	43.14	23.05	38.44	21.31	38.58	23.08	37.15	27.36	37.55	26.28	25.17	65.47
16.15	37.11	22.17	37.08	22.90	41.72	21.53	36.60	17.45	37.60	22.59	36.50	26.60	36.84	25.97	24.72	67.53
16.30	36.54	23.46	36.31	24.09	40.65	22.73	35.92	19.38	36.91	23.19	35.77	27.25	36.40	26.45	26.60	74.05
16.45	35.49	24.50	35.00	25.19	38.86	24.30	35.03	23.70	35.72	24.01	34.70	27.72	35.59	26.92	26.25	74.94
17.00	34.88	23.79	34.37	24.36	38.23	23.45	33.15	22.75	35.22	23.50	34.76	27.25	35.25	26.79	24.90	75.12
17.15	33.51	23.17	32.91	23.50	36.33	22.70	32.15	21.88	33.93	23.09	33.39	26.92	34.27	26.64	24.69	76.81
17.30	31.93	21.75	31.37	21.94	34.20	21.16	31.27	18.94	32.45	22.12	32.37	26.26	33.40	26.13	24.10	77.05
17.45	29.52	21.88	29.20	22.26	31.49	22.00	30.40	18.34	30.63	22.34	30.68	26.62	31.98	26.22	24.11	79.29
18.00	28.33	24.00	27.94	24.14	29.30	23.64	29.71	23.25	29.26	23.92	29.67	27.09	31.14	26.88	24.55	82.63
18.45	27.83	23.87	27.35	23.97	28.17	23.58	28.19	23.51	28.49	23.89	29.10	26.92	30.57	26.85	24.28	83.18
18.30	27.39	23.00	26.97	23.03	27.48	22.72	26.82	22.44	28.06	23.35	28.64	26.44	30.14	26.69	24.44	84.80
18.45	26.95	21.77	26.70	21.91	27.07	21.80	26.70	19.96	27.81	22.72	28.38	25.89	29.92	26.42	24.23	84.41
19.00	26.57	22.25	26.25	22.48	26.62	22.18	26.29	20.18	27.23	23.25	27.91	26.11	29.50	26.32	24.94	88.13
19.45	26.38	23.48	25.95	23.57	26.28	23.21	27.70	23.23	26.75	23.54	27.39	25.93	28.87	26.57	24.47	88.36
19.30	26.67	22.66	26.09	22.73	26.38	22.37	27.95	22.27	26.88	22.94	27.39	25.31	28.70	26.26	25.25	90.32
19.45	26.75	21.41	26.31	21.59	26.46	21.31	28.00	19.77	27.02	22.32	27.29	24.70	28.61	25.78	24.96	89.13
20.00	26.56	22.59	26.15	22.88	26.31	22.33	27.76	20.98	26.88	23.16	26.92	24.94	28.32	25.99	26.37	95.00
20.15	26.63	23.14	26.21	23.38	26.30	22.61	27.83	23.19	26.85	23.20	26.91	24.92	27.97	26.01	25.28	90.85
20.30	26.52	22.11	26.07	22.27	26.32	21.59	27.68	21.51	26.81	22.31	26.72	24.27	27.84	25.57	24.91	90.00
20.45	26.51	21.51	26.01	21.61	26.22	20.87	27.62	20.36	26.77	21.77	26.56	23.85	27.70	25.28	24.96	90.38
21.00	26.52	20.08	26.03	20.24	26.17	19.21	27.54	16.33	26.74	20.65	26.39	23.17	27.58	24.68	24.69	89.66
21.15	26.16	22.77	25.73	22.99	25.90	22.28	27.30	22.33	26.42	22.64	26.08	24.09	27.26	25.29	25.05	91.74
21.30	26.31	22.19	25.75	22.42	25.94	21.70	27.36	21.81	26.47	22.14	26.12	23.74	27.19	25.07	25.16	91.98
21.45	26.13	21.42	25.65	21.60	25.87	20.88	27.19	20.69	26.49	21.60	25.91	23.32	27.11	24.74	25.60	94.13
22.00	26.15	20.46	25.66	20.62	25.84	19.55	27.26	16.73	26.39	20.80	25.87	22.69	27.05	24.30	24.91	91.38
22.15	25.94	22.42	25.45	22.71	25.63	22.05	26.91	22.15	26.14	22.29	25.56	23.54	26.73	24.70	24.70	91.78
22.30	25.99	21.80	25.44	22.03	25.68	21.31	26.95	21.36	26.18	21.78	25.57	23.19	26.67	24.46	25.57	94.87
22.45	26.06	20.90	25.59	21.11	25.77	20.39	27.10	19.71	26.31	21.21	25.60	22.75	26.63	24.13	25.89	95.55
23.00	25.93	21.75	25.51	22.08	25.65	21.00	27.04	19.96	26.18	21.72	25.43	23.00	26.23	24.27	24.96	92.33
23.15	25.84	22.11	25.38	22.43	25.52	21.72	26.87	21.80	26.10	22.04	25.31	23.10	26.33	24.23	25.07	93.28
23.30	25.66	21.39	25.37	21.64	25.54	20.92	26.86	20.85	26.11	21.46	25.28	22.76	26.28	23.98	24.89	92.66
23.45	25.86	20.00	25.43	20.26	25.50	19.11	26.84	16.26	26.04	20.46	25.18	22.04	26.27	23.44	24.98	93.05
24.00	25.76	22.30	25.30	22.64	25.41	21.98	26.75	22.09	25.93	22.19	25.13	23.08	26.07	24.06	21.30	79.62

12.15	43.11	23.73	40.41	25.65	48.48	24.71	33.36	23.12	40.56	23.54	35.25	25.75	35.00	24.19	22.39	4.36	0.57	82.92
12.30	43.46	23.44	41.14	25.47	48.53	24.39	35.59	22.62	41.31	23.32	36.51	25.50	36.79	24.19	22.39	4.36	0.57	82.92
12.45	44.14	23.02	41.32	25.06	49.45	23.92	36.57	21.88	41.61	23.13	36.63	25.57	36.95	24.31	22.84	4.47	0.55	82.44
13.00	45.06	21.89	42.33	23.85	49.61	22.46	37.02	18.37	42.36	22.68	37.07	25.39	37.78	24.34	23.53	4.22	1.54	63.56
13.15	44.33	22.58	42.01	24.47	49.09	23.49	35.05	20.72	42.07	22.95	38.03	25.99	38.13	24.70	20.97	4.33	0.80	59.81
13.30	42.52	22.46	41.72	24.24	48.99	22.96	37.04	18.34	42.10	22.92	38.14	26.15	38.27	24.77	22.63	4.52	0.82	61.10
13.45	42.41	23.43	41.95	25.21	48.80	23.67	36.56	20.48	42.07	23.89	38.49	26.71	38.33	25.38	21.02	8.80	1.17	58.53
14.00	42.77	24.62	41.48	26.57	47.93	25.73	36.93	23.98	41.82	24.36	38.58	27.50	38.49	25.82	21.83	4.07	0.35	59.63
14.15	41.83	24.55	41.04	26.19	47.59	24.69	37.36	23.91	41.28	24.35	37.55	27.26	38.36	26.01	22.29	3.65	0.98	60.40
14.30	41.85	25.17	41.04	26.63	47.82	25.02	37.02	24.40	41.35	24.95	38.36	27.48	38.64	26.37	22.36	2.97	0.82	59.33
14.45	40.79	25.22	40.32	26.60	46.34	25.26	37.06	24.54	40.79	24.91	37.86	27.75	38.16	26.55	21.99	2.97	0.82	59.33
15.00	40.63	25.02	39.82	26.02	45.73	23.76	36.56	23.05	40.40	24.80	37.67	27.39	38.11	26.59	22.53	8.13	1.21	61.59
15.15	39.70	24.67	39.67	25.72	45.14	24.43	35.88	21.92	40.17	24.46	38.68	28.05	38.25	26.86	22.80	1.56	0.85	63.54
15.30	39.71	24.68	39.00	26.09	44.56	24.95	36.43	23.15	39.51	24.41	36.83	28.24	38.01	26.82	21.46	1.11	0.50	58.91
15.45	39.12	23.90	38.92	24.84	43.95	23.90	35.82	22.75	39.30	23.63	37.18	27.82	37.99	26.84	21.81	1.09	0.33	61.23
16.00	38.62	22.02	38.32	23.06	43.25	22.44	36.25	19.17	38.78	22.38	37.04	27.27	37.85	26.29	22.31	1.04	1.04	61.56
16.15	38.25	23.72	37.92	24.65	42.75	23.67	36.03	20.63	38.38	23.65	36.74	27.95	37.29	26.66	22.64	3.13	0.13	62.65
16.30	37.65	25.00	37.20	25.87	41.91	25.23	35.13	24.43	37.66	24.68	36.47	28.25	36.92	27.27	20.59	3.23	0.41	58.61
16.45	37.15	24.00	36.38	24.55	40.94	23.82	35.41	22.77	36.98	23.73	36.16	27.59	36.47	27.03	22.15	2.71	0.65	62.55
17.00	36.17	21.47	35.48	22.16	39.60	21.88	33.16	17.81	36.10	22.03	35.34	26.97	35.95	26.32	21.97	3.56	0.36	66.25
17.15	34.70	23.71	33.89	23.98	37.98	22.98	32.71	20.04	34.99	23.49	34.40	27.31	35.20	26.97	22.66	1.37	0.53	69.34
17.30	32.25	23.96	31.47	24.21	34.47	23.58	31.55	22.98	32.47	23.71	32.01	27.23	33.29	27.06	22.09	0.41	0.78	70.01
17.45	30.03	22.92	29.28	22.89	31.80	22.35	30.66	21.46	30.94	22.87	30.94	26.72	32.41	26.80	22.72	0.19	0.10	74.12
18.00	28.72	21.64	28.22	21.25	29.71	20.26	30.07	16.57	29.89	21.70	30.21	25.74	31.78	26.35	22.73	0.10	0.41	75.59
18.15	27.25	23.83	26.90	23.81	28.07	23.28	29.30	23.16	28.59	23.51	29.28	26.64	30.94	26.91	22.51	0.05	0.08	76.83
18.30	26.32	22.89	26.00	22.71	26.96	22.21	28.42	22.03	27.76	22.73	28.66	26.04	30.45	26.70	22.70	0.01	0.41	79.86
18.45	26.01	21.83	25.68	21.49	26.41	21.00	26.17	20.27	27.23	22.04	28.23	25.31	30.05	26.33	22.32	0.00	0.19	79.22
19.00	25.61	22.28	25.21	22.02	25.76	21.21	27.85	19.30	26.60	22.14	27.69	25.17	29.49	26.25	23.05	0.01	0.03	82.75
19.15	25.10	22.62	24.73	22.44	25.32	22.07	27.26	22.16	26.04	22.46	27.19	25.19	29.11	26.29	22.57	0.00	0.32	82.80
19.30	24.93	21.56	24.56	21.22	25.05	20.78	27.01	20.38	25.81	21.71	26.88	24.50	28.86	25.97	23.17	0.01	0.35	85.78
19.45	25.22	22.01	24.74	21.83	24.85	21.09	26.83	19.46	25.62	22.05	26.53	24.27	28.41	25.84	24.12	0.01	0.11	89.91
20.00	24.47	22.22	24.21	22.10	24.58	21.70	26.19	21.87	25.35	22.13	26.19	24.32	28.14	25.82	23.30	0.01	0.51	88.96
20.15	25.25	21.24	24.64	21.01	24.84	20.55	27.01	20.10	25.56	21.44	26.15	23.69	27.96	25.45	24.21	0.01	0.36	89.61
20.30	25.67	22.53	25.08	22.62	25.13	21.96	27.15	21.75	25.65	22.43	25.99	24.10	27.71	25.57	24.86	0.00	0.18	91.58
20.45	25.94	22.09	25.26	22.25	25.45	21.63	27.40	21.76	25.95	22.04	25.94	23.77	27.69	25.34	24.89	0.00	0.11	90.82
21.00	26.14	21.11	25.58	21.21	25.77	20.59	27.51	19.99	26.29	21.37	26.03	23.18	27.68	25.00	25.37	0.00	0.18	92.23
21.05	26.10	22.62	25.65	22.88	25.77	22.13	27.46	22.10	26.26	22.49	25.85	23.71	27.30	25.19	25.34	0.00	0.62	92.26
21.30	26.34	22.13	25.71	22.44	25.89	21.73	27.37	21.82	26.50	22.13	25.82	23.46	27.29	25.00	25.40	0.00	0.42	92.81
21.45	26.33	21.21	25.79	21.42	26.00	20.66	27.48	20.22	26.66	21.50	25.81	22.93	27.36	24.96	27.03	0.01	0.56	98.36
22.00	26.39	22.36	25.92	22.67	26.02	21.71	27.45	21.14	26.68	22.30	25.84	23.29	27.16	24.81	25.84	0.00	0.71	94.15
22.15	26.42	22.29	25.89	22.70	26.09	21.88	27.41	22.00	26.75	22.24	25.77	23.30	27.02	24.87	25.17	0.01	0.44	91.82
22.30	26.42	21.37	26.04	21.65	26.16	20.82	27.45	20.62	26.89	21.65	25.79	22.85	27.06	24.41	25.87	0.01	0.20	94.25
22.45	26.41	21.57	25.97	21.86	26.13	20.61	27.39	16.78	26.78	21.65	25.84	22.82	26.90	24.23	25.78	0.01	0.48	94.14
23.00	26.32	22.37	25.67	22.78	26.09	21.98	27.33	22.10	26.87	22.32	25.61	23.23	26.77	24.43	25.99	0.01	0.32	95.11
23.15	26.30	21.48	25.85	21.79	26.09	20.92	27.35	20.83	26.73	21.64	25.54	22.78	26.73	24.14	25.28	0.01	0.31	92.45
23.30	25.87	21.42	25.53	21.66	25.82	20.49	27.08	18.73	26.42	21.52	25.23	22.87	26.63	23.94	25.08	0.01	0.15	92.64
23.45	25.94	22.25	25.42	22.56	25.67	21.85	27.03	21.94	26.26	22.15	25.13	23.06	26.42	24.16	24.60	0.01	1.40	90.98
24.00	25.99	21.28	25.49	21.41	25.70	20.73	27.04	20.48	26.31	21.44	25.23	22.61	26.43	23.88	25.31	0.01	0.45	93.63

12.15	42.19	24.53	33.60	25.75	47.59	24.21	35.60	23.03	40.89	23.92	35.97	25.74	36.88	35.02	25.79	0.06	0.42	72.44
12.30	43.31	23.63	34.25	25.75	47.59	24.21	35.60	23.03	40.89	23.92	35.97	25.74	36.88	35.02	25.79	0.06	0.56	72.18
12.45	41.34	22.16	34.54	25.39	45.92	22.47	36.52	18.73	41.22	23.43	36.80	25.50	36.16	33.22	26.36	0.06	1.16	70.75
13.00	42.58	24.47	34.89	26.39	46.95	24.66	36.86	22.20	41.33	24.68	36.90	26.47	37.50	35.48	25.94	0.05	0.14	72.64
13.15	41.36	24.49	35.13	26.70	46.81	25.23	35.48	24.00	41.21	24.56	37.19	26.79	37.18	35.43	25.77	0.05	0.71	73.26
13.30	41.61	22.62	35.54	26.24	47.06	23.94	36.96	20.20	41.88	23.70	37.81	26.45	36.64	34.28	27.06	0.05	0.44	73.54
13.45	42.07	23.63	35.82	26.77	46.99	24.11	36.16	20.52	41.56	24.43	37.50	26.98	37.35	34.92	26.59	0.05	0.20	71.79
14.00	40.98	25.02	35.62	27.53	46.49	25.65	36.41	24.48	41.10	25.00	37.29	27.64	37.30	35.63	26.14	0.05	0.72	68.05
14.15	40.60	23.64	35.73	27.21	46.35	24.16	37.94	22.31	40.92	24.19	37.57	27.24	36.46	34.35	25.82	0.06	0.59	69.98
14.30	40.78	23.26	36.19	27.18	46.24	23.48	37.05	19.73	41.26	24.23	38.27	27.45	36.85	34.33	25.93	0.05	0.22	65.46
14.45	40.64	25.52	36.07	28.13	45.98	26.01	36.99	25.00	40.59	25.36	37.90	28.22	37.12	35.40	24.21	0.06	0.74	66.89
15.00	41.53	24.27	36.47	27.84	46.49	24.59	36.89	23.18	41.32	24.48	38.24	27.75	36.46	34.46	25.41	0.07	0.42	69.92
15.15	40.36	22.75	36.31	27.50	45.51	22.66	35.86	18.83	40.63	23.98	38.04	27.41	36.05	33.47	25.07	0.07	0.35	69.56
15.30	38.91	25.32	35.61	28.28	43.69	25.58	35.68	23.97	39.34	25.11	36.94	28.45	35.63	34.10	24.82	0.06	0.62	69.87
15.45	38.69	24.38	35.56	28.08	43.25	24.47	35.62	23.48	39.10	24.52	37.15	28.03	34.38	32.84	24.89	0.05	0.38	68.14
16.00	37.96	22.56	35.33	27.13	42.22	22.58	36.25	18.64	38.72	23.57	36.84	27.65	33.19	31.12	24.70	0.04	0.86	69.70
16.15	37.69	24.61	35.03	28.23	41.45	24.24	35.22	21.97	37.95	24.65	36.28	28.04	32.43	32.30	24.55	0.03	0.48	69.57
16.30	37.32	24.42	34.67	28.12	40.61	24.44	34.65	23.54	37.46	24.45	35.92	27.91	31.02	30.87	24.11	0.02	0.62	70.82
16.45	38.17	22.61	34.09	27.55	39.40	22.42	34.44	19.99	36.94	23.73	35.78	27.31	31.72	30.05	24.39	0.01	0.48	74.96
17.00	34.68	23.66	33.24	27.67	37.54	23.37	33.06	20.53	35.37	24.20	34.42	27.58	31.55	30.09	24.78	0.01	0.35	75.54
17.15	33.72	24.85	32.42	28.01	35.96	24.39	32.13	24.08	34.10	24.48	32.73	27.76	29.43	28.53	24.27	2.14	0.31	81.57
17.30	31.44	22.15	31.08	27.03	34.17	21.70	31.51	19.44	32.36	22.77	31.68	26.85	28.26	27.00	25.70	0.57	0.45	83.86
17.45	30.59	22.42	30.40	26.96	31.46	21.38	30.96	18.42	31.28	22.79	31.04	26.54	27.72	26.46	25.96	0.20	0.81	82.73
18.00	29.25	23.54	29.77	27.14	29.85	22.34	30.46	21.38	30.31	23.25	30.31	27.09	27.37	26.85	25.19	0.16	0.39	85.39
18.15	28.14	23.32	29.18	26.82	28.53	22.24	29.58	21.05	29.33	23.11	29.80	26.85	26.39	25.68	25.26	0.04	0.36	91.61
18.30	27.04	23.75	28.55	26.86	27.39	23.01	28.75	23.24	28.32	23.48	28.80	26.50	25.53	25.21	26.34	0.01	0.11	86.00
18.45	27.08	23.22	28.20	26.48	26.98	22.46	28.75	22.62	27.85	23.04	28.44	26.08	25.50	24.95	24.72	0.01	0.54	87.61
19.00	26.34	22.71	27.74	26.04	26.39	21.85	28.08	21.98	27.24	22.66	27.93	25.60	24.66	24.24	24.60	0.01	0.40	89.76
19.15	26.03	22.18	27.40	25.71	25.98	21.25	27.72	21.09	26.82	22.25	27.57	25.08	24.30	23.80	24.88	0.01	0.31	88.84
19.30	26.12	20.92	27.16	24.76	25.83	19.54	27.81	16.75	26.67	21.15	27.36	24.25	24.57	23.51	24.70	0.01	0.36	89.84
19.45	25.96	23.04	26.70	25.48	25.67	22.45	27.47	22.60	26.35	22.86	26.90	25.08	24.69	24.38	24.66	0.01	0.21	94.99
20.00	25.55	22.39	26.53	25.06	25.42	21.78	27.01	21.81	26.12	22.29	26.58	24.58	24.02	23.70	25.66	0.01	0.15	91.29
20.15	25.69	21.64	26.29	24.67	25.38	20.98	27.22	20.81	26.09	21.74	26.50	24.10	24.01	23.41	24.85	0.01	0.12	91.42
20.30	25.46	20.48	26.04	23.96	25.19	19.16	27.01	16.70	25.88	20.81	26.16	23.18	23.91	23.04	24.69	0.01	0.05	92.46
20.45	25.20	22.45	25.75	24.52	24.89	21.99	26.71	22.10	25.58	22.30	25.81	24.07	24.00	23.66	24.70	0.01	0.19	91.62
21.00	25.11	21.74	25.59	24.16	24.82	21.19	26.77	21.22	25.51	21.74	25.64	23.61	23.64	23.25	24.53	0.00	0.28	93.30
21.05	25.03	20.46	25.42	23.56	24.71	19.82	26.66	18.45	25.42	20.82	25.47	22.85	23.29	22.51	24.87	0.01	0.35	93.81
21.30	24.45	22.34	24.97	24.05	24.22	21.96	26.09	22.13	24.96	22.23	24.98	23.62	23.41	23.23	24.46	0.01	0.37	99.17
21.45	23.60	21.57	24.72	23.63	23.66	21.03	25.26	21.11	24.60	21.55	24.65	23.13	22.69	22.46	25.05	0.00	0.15	93.72
22.00	23.43	20.08	24.40	23.09	23.38	19.38	24.92	17.73	24.29	20.51	24.42	22.40	22.38	21.84	23.35	0.01	0.34	96.98
22.15	23.27	21.94	24.22	23.47	23.06	21.55	24.80	21.73	23.92	21.84	24.13	23.08	22.69	22.56	24.05	0.00	0.12	95.11
22.30	23.39	21.06	24.07	23.06	23.11	20.54	24.89	20.55	23.90	21.14	24.03	22.54	22.45	22.14	23.67	0.01	0.24	98.16
22.45	22.97	21.47	23.86	23.07	22.92	20.73	24.90	19.83	23.84	21.39	23.79	22.55	22.57	22.26	24.45	0.01	0.55	95.23
23.00	23.69	21.42	23.85	22.96	23.22	20.99	25.09	21.19	23.78	21.38	23.82	22.48	22.70	22.47	23.90	0.01	0.59	96.21
23.15	23.86	20.17	23.85	22.41	23.46	19.67	25.27	18.60	23.95	20.45	23.80	21.87	22.55	22.00	24.31	0.01	0.46	87.16
23.30	23.68	21.78	23.58	22.90	23.34	21.48	25.26	21.73	23.82	21.68	23.69	22.50	22.88	22.65	22.02	0.01	0.90	93.93
23.45	23.45	20.89	23.52	22.47	23.28	20.45	25.30	20.46	23.81	21.00	23.55	22.01	22.43	22.11	23.76	0.01	0.19	94.96
24.00	23.31	21.62	23.41	22.62	23.10	21.06	25.01	20.73	23.67	21.63	23.40	22.24	22.75	22.47	23.75	0.01		

Time	OS1	IS1	OS4	IS4	OS3	IS3	OA	IA	OS5	IS5	OS6	IS6	OS8	IS8	WB	Red	WS	RH	Remark
00.00	24.93	21.06	24.91	23.34	24.64	20.67	26.30	19.38	25.28	21.63	24.87	23.06	23.56	22.83	24.40	0.00			
00.15	25.05	22.84	24.81	23.92	24.65	22.56	26.13	22.80	25.17	22.76	24.79	23.64	23.90	23.63	24.82	0.01			
00.30	25.14	21.76	24.76	23.46	24.75	21.36	26.24	21.22	25.25	22.03	24.79	23.18	23.55	23.10	24.64	0.01			
00.45	24.59	23.07	24.56	23.87	24.44	22.89	25.94	23.15	24.96	22.94	24.48	23.63	23.75	23.54	24.36	0.01			
01.00	24.66	22.04	24.47	23.45	24.41	21.67	25.76	21.72	24.97	22.22	24.48	23.16	23.96	23.03	24.73	0.01			
01.15	24.92	22.22	24.44	23.47	24.48	21.68	26.04	20.95	24.99	22.46	24.57	23.23	23.96	23.49	25.67	0.01			
01.30	24.98	22.31	24.46	23.41	24.59	22.00	26.06	22.15	25.01	22.36	24.48	23.17	23.75	23.38	24.48	0.01			
01.45	24.83	20.22	24.41	22.59	24.54	19.90	25.94	17.28	25.00	21.10	24.41	22.65	23.59	22.58	24.60	0.01			
02.00	24.90	22.55	24.35	23.39	24.54	22.29	25.95	22.47	24.95	22.54	24.37	23.16	23.73	23.42	24.20	0.01			
02.15	24.85	21.27	24.33	22.95	24.54	20.98	25.92	20.36	25.00	21.72	24.42	22.69	23.45	22.85	24.83	0.01			
02.30	24.58	22.70	24.19	23.38	24.22	22.49	25.75	22.70	24.74	22.63	24.11	23.19	23.55	23.30	23.75	0.00			
02.45	24.77	21.62	24.23	22.99	24.35	21.25	25.77	21.12	24.86	21.93	24.23	22.73	23.42	22.95	24.82	0.00			
03.00	24.35	22.87	23.97	23.37	24.01	22.69	25.63	22.98	24.55	22.79	23.91	23.21	23.47	23.26	24.26	0.01			
03.15	24.31	21.80	23.92	22.98	23.95	21.44	25.60	21.47	24.55	22.01	23.97	22.77	23.27	22.95	24.24	0.01			
03.30	24.19	22.97	23.83	23.34	23.81	22.83	25.40	23.15	24.40	22.84	23.83	23.20	23.46	23.28	23.57	0.00			
03.45	24.00	22.00	23.82	22.97	23.70	21.68	25.27	21.79	24.40	22.13	23.83	22.78	23.22	22.89	24.17	0.01			
04.00	23.87	22.31	23.71	23.06	23.54	21.81	25.08	21.37	24.17	22.44	23.67	22.88	23.30	22.99	24.14	0.01			
04.15	23.79	22.06	23.63	22.92	23.45	21.75	24.94	21.86	24.10	22.14	23.60	22.74	22.97	22.74	23.75	0.01			
04.30	23.60	21.54	23.43	22.65	23.41	20.86	24.76	19.43	24.03	21.91	23.59	22.54	23.13	22.81	23.92	0.01			
04.45	23.94	22.08	23.60	22.86	23.59	21.82	24.84	21.96	24.10	22.19	23.62	22.71	23.10	22.82	23.89	0.00			
05.00	23.68	20.77	23.59	22.32	23.58	20.07	24.75	18.05	23.97	21.28	23.49	22.08	22.95	22.30	23.41	0.01			
05.15	23.45	22.09	23.37	22.79	23.29	21.83	24.66	21.98	23.79	22.14	23.35	22.82	22.79	22.81	23.92	0.01			
05.30	23.57	20.83	23.27	22.26	23.25	20.38	24.53	18.16	23.76	21.36	23.37	22.27	22.87	22.19	23.81	0.00			
05.45	23.45	22.02	23.27	22.69	23.27	21.78	24.45	21.93	23.69	22.09	23.24	22.54	22.72	22.53	23.43	0.01			
06.00	23.34	21.20	23.23	22.45	23.18	20.48	24.31	18.98	23.57	21.89	23.17	22.13	22.76	22.32	24.36	0.00			
06.15	23.22	21.92	23.14	22.59	23.11	21.65	24.43	21.79	23.48	22.00	23.12	22.44	22.50	22.33	23.35	0.01			
06.30	23.18	22.61	23.06	22.84	23.11	22.22	24.33	22.35	23.37	22.55	23.05	22.64	22.89	22.74	23.70	0.03			
06.45	23.34	21.79	23.07	22.48	23.28	21.51	24.30	21.64	23.49	21.91	23.10	22.37	22.81	22.45	23.74	0.11			
07.00	23.69	22.74	23.26	22.79	23.66	22.66	24.42	23.01	23.54	22.64	23.20	22.73	23.11	23.03	22.96	0.23			
07.15	24.29	21.68	23.45	22.42	24.44	21.42	24.73	21.51	23.99	21.85	23.55	22.25	23.08	22.85	23.40	0.39			
07.30	25.36	22.72	23.71	22.75	25.47	22.69	25.19	23.01	24.44	22.80	23.96	22.88	23.92	23.75	23.38	0.55			
07.45	25.76	21.73	23.94	22.42	26.30	21.57	25.57	21.57	25.05	21.91	24.23	22.27	24.13	23.73	23.68	0.54			
08.00	26.04	22.91	24.17	22.83	26.56	22.96	25.72	23.21	25.40	22.78	24.95	22.76	24.88	24.57	23.20	0.42			
08.15	26.39	21.94	24.35	22.52	26.85	21.82	26.03	21.79	25.85	22.08	24.61	22.41	24.71	24.16	22.97	0.50			
08.30	27.39	22.45	24.63	22.76	27.89	22.20	26.33	21.87	26.48	22.53	25.04	22.84	25.59	25.08	24.04	0.65			
08.45	27.44	22.28	24.80	22.74	28.18	22.24	26.54	22.21	26.75	22.34	25.10	22.85	25.31	24.80	23.87	0.46			
09.00	29.12	20.29	25.55	22.08	29.81	19.85	27.17	17.06	27.83	20.99	26.10	21.90	26.37	24.96	25.05	1.48			
09.15	32.02	22.86	26.74	23.09	33.00	22.97	28.45	22.88	29.56	22.83	27.38	23.02	28.65	27.25	23.70	2.07			
09.30	32.88	21.96	27.40	22.85	34.19	22.07	28.60	21.61	30.63	22.22	28.20	22.76	29.29	27.56	24.07	2.46			
09.45	34.93	22.86	28.27	23.32	36.68	22.87	29.00	21.79	32.14	22.94	29.22	23.26	31.25	29.83	24.54	2.83			
10.00	35.85	23.15	28.98	23.56	37.96	23.51	29.64	23.10	33.30	23.12	29.84	23.54	31.92	30.53	24.53	3.35			
10.15	37.65	22.41	29.69	23.48	39.61	22.87	30.81	21.89	34.67	22.82	30.79	23.43	32.78	30.84	24.50	3.43			
10.30	37.95	21.78	30.49	23.42	40.74	22.09	30.35	19.03	35.52	22.32	31.42	23.55	33.77	31.47	24.83	3.98			
10.45	38.56	23.93	30.58	24.40	41.53	24.55	31.29	23.83	36.26	23.77	32.22	24.50	34.58	32.70	23.14	4.12			
11.00	38.84	23.38	31.22	24.42	42.31	23.95	31.97	23.02	37.00	23.33	32.44	24.50	34.28	32.83	25.67	4.33			
11.15	40.90	22.47	32.28	24.36	43.59	23.10	31.07	21.23	38.34	22.77	33.85	24.42	35.51	32.45	24.96	4.54			
11.30	40.11	22.89	32.48	24.53	44.05	23.13	31.72	19.88	38.48	22.98	33.86	24.81	35.96	33.43	24.99	4.61			
11.45	40.43	24.41	32.96	25.44	44.52	25.12	33.91	24.12	39.14	24.20	34.24	25.63	36.63	34.58	24.39	4.66			
12.00	39.82	23.83	33.37	25.46	44.18	24.46	33.04	23.23	39.35	23.74	34.70	25.68	36.39	34.29	24.60	4.69			

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12.30	41.63	23.80	34.80	25.63	46.62	24.11	32.86	21.05	40.64	23.76	36.23	26.40	37.35	35.40	25.09	0.19
12.45	42.67	25.18	34.81	26.55	47.04	26.04	33.26	25.10	41.09	25.02	36.53	26.98	38.21	36.01	24.21	8.67
13.00	42.71	24.96	35.18	26.70	47.18	25.79	34.69	24.61	41.46	24.96	37.14	27.14	38.33	35.92	24.81	8.73
13.15	42.91	23.90	35.20	26.51	47.32	24.62	35.39	22.50	41.74	23.99	36.98	26.93	37.55	35.07	25.22	5.42
13.30	42.19	22.85	35.57	26.26	47.43	23.92	33.77	19.05	41.74	23.53	37.51	26.97	37.59	34.64	25.14	5.11
13.45	42.32	25.14	35.65	27.24	47.26	25.67	34.61	23.71	41.83	25.01	37.89	27.79	36.23	36.17	25.27	5.14
14.00	42.79	24.94	35.99	27.35	47.02	25.65	33.79	24.14	41.90	24.77	38.32	27.86	37.74	35.50	25.26	4.72
14.15	42.54	23.96	36.05	27.12	47.52	24.62	34.14	22.39	41.82	24.11	38.54	27.66	36.73	34.89	25.56	4.92
14.30	41.21	23.28	35.90	26.85	46.32	24.19	35.54	19.46	41.46	23.62	37.59	27.63	36.46	33.79	25.56	4.76
14.45	42.09	25.48	35.33	27.91	45.56	26.09	34.50	24.41	40.45	25.29	37.28	28.47	36.15	34.72	25.42	3.16
15.00	39.65	24.83	34.88	27.74	43.05	25.30	34.47	23.96	39.53	24.72	36.61	28.34	34.28	32.61	24.43	3.93
15.15	40.23	23.66	34.70	27.34	43.63	24.03	34.87	21.76	39.43	23.81	36.48	27.96	33.40	31.70	25.63	2.15
15.30	38.17	23.43	34.38	27.33	42.06	23.80	35.37	19.72	38.65	23.67	36.04	28.14	33.63	31.35	25.98	2.79
15.45	38.12	25.41	33.67	28.07	40.57	25.76	34.26	24.66	37.66	25.03	35.36	28.56	32.65	31.59	25.39	1.80
16.00	37.77	24.49	34.10	27.73	40.23	24.64	34.00	23.45	37.74	24.26	36.01	28.28	32.45	30.74	25.90	2.43
16.15	37.51	23.13	33.39	27.23	39.38	23.39	33.80	21.04	36.84	23.36	35.01	27.82	31.01	29.09	25.38	1.59
16.30	37.45	23.44	33.17	27.25	39.13	23.36	33.39	20.08	36.46	23.75	34.71	27.81	31.73	30.24	25.17	1.46
16.45	36.12	24.91	32.99	27.78	38.46	25.02	32.94	24.16	36.13	24.63	34.48	28.23	31.46	30.33	24.82	1.57
17.00	35.61	23.96	32.49	27.44	37.44	23.92	32.16	22.88	35.47	23.95	33.86	27.72	30.04	28.94	25.26	1.20
17.15	33.55	22.11	31.44	26.69	35.40	22.37	32.54	18.69	34.01	22.73	32.57	27.24	28.87	27.12	25.27	0.53
17.30	31.90	24.12	30.64	27.26	33.22	23.57	32.09	21.85	32.87	24.15	31.82	27.66	29.00	27.81	25.27	0.33
17.45	30.84	24.21	30.26	27.24	31.69	24.01	31.23	23.50	31.88	24.06	31.09	27.53	27.86	27.04	25.08	0.20
18.00	29.92	23.25	29.78	26.80	30.46	22.89	30.86	22.14	31.04	23.34	30.53	27.04	26.99	25.66	25.11	0.10
18.15	29.17	21.91	29.28	26.12	29.47	21.59	30.20	18.16	30.21	22.55	29.98	26.55	26.71	25.31	25.01	0.04
18.30	28.53	24.12	28.82	26.79	28.67	23.78	29.80	23.63	29.42	23.94	29.44	26.95	26.50	25.91	24.15	0.01
18.45	28.02	23.10	28.45	26.24	28.13	22.85	29.16	22.23	28.90	23.09	29.05	26.45	26.79	25.09	24.43	0.00
19.00	27.55	21.45	28.08	25.35	27.63	20.78	28.63	17.71	28.98	22.10	28.65	25.72	25.57	24.35	24.94	0.01
19.15	27.41	23.80	27.76	26.17	27.23	23.44	28.58	23.44	27.87	23.59	28.21	26.24	25.75	25.27	24.28	0.01
19.30	26.63	22.73	27.41	25.64	26.70	22.27	27.92	21.98	27.45	22.82	27.87	25.67	24.85	24.30	24.39	0.01
19.45	26.82	21.59	27.19	25.02	26.60	20.68	28.14	18.08	27.23	22.07	27.61	24.86	25.25	24.20	24.78	0.00
20.00	26.30	23.33	26.85	25.55	26.17	22.96	27.57	23.06	26.83	23.20	27.22	25.50	24.80	24.44	23.66	0.00
20.15	26.86	22.31	26.74	25.02	26.26	21.84	27.72	21.55	26.90	22.52	27.14	25.02	24.77	24.16	24.56	0.00
20.30	26.80	22.59	26.80	24.95	26.23	21.76	27.76	20.38	26.84	22.76	26.92	24.89	25.25	24.42	25.02	0.01
20.45	26.87	23.09	26.44	24.99	26.25	22.71	27.73	22.79	26.86	23.03	26.80	24.93	25.12	24.60	24.66	0.00
21.00	26.66	22.07	26.34	24.53	26.32	21.66	27.70	21.24	26.93	22.38	26.71	24.47	24.84	24.08	24.97	0.00
21.05	26.56	23.67	26.16	25.01	26.19	23.33	27.54	23.41	26.75	23.49	26.51	24.84	25.34	24.90	25.03	0.01
21.30	26.84	22.92	26.23	24.82	26.41	22.53	27.68	22.58	26.95	22.88	26.57	24.50	25.36	24.76	25.62	0.01
21.45	26.71	21.68	26.11	24.11	26.42	21.29	27.57	20.33	27.00	22.12	26.40	24.03	24.82	23.93	25.42	0.01
22.00	26.71	23.55	26.03	24.69	26.39	23.32	27.49	23.45	26.86	23.41	26.24	24.61	25.48	25.06	25.08	0.01
22.15	26.70	22.75	25.98	24.35	26.38	22.37	27.46	22.42	26.93	22.80	26.22	24.22	25.17	24.62	25.19	0.00
22.30	26.81	21.09	26.01	23.73	26.51	20.75	27.57	19.00	27.02	21.77	26.30	23.70	25.08	23.96	25.82	0.01
22.45	26.72	23.41	25.90	24.46	26.37	23.14	27.41	23.25	26.85	23.26	26.17	24.35	25.43	24.95	25.36	0.00
23.00	26.65	22.55	25.80	24.12	26.31	22.14	27.44	22.14	26.81	22.66	26.04	23.97	25.02	24.42	25.26	0.01
23.15	26.85	20.83	25.82	23.46	26.58	20.31	27.58	17.69	27.01	21.56	26.22	23.36	25.36	24.19	25.71	0.01
23.30	26.44	23.49	25.65	24.38	26.23	23.20	27.18	23.31	26.70	23.41	25.84	24.21	25.26	24.84	25.01	0.01
23.45	26.49	22.53	25.65	24.03	26.20	22.24	27.16	22.27	26.66	22.66	25.89	23.86	24.96	24.39	25.11	0.00
24.00	26.60	20.66	25.69	23.19	26.31	20.43	27.35	17.85	26.74	21.36	25.94	23.34	25.02	23.65	25.35	0.01

t-test pairs= IS6 WITH IS1 IS2 IS3 IS5 IS7.

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SPSS/PC+

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Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS1 Inside Surface Armour Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	98	24.6345	2.435	.246
IS1	98	22.6002	1.399	.141

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
2.0343	1.445	.146	.851 .000	13.93	97	.000

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SPSS/PC+

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Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS2 Inside Surface Wooden Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	98	24.6345	2.435	.246
IS2	98	24.1794	2.289	.231

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
.4551	1.280	.129	.855 .000	3.52	97	.001

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SPSS/PC+

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Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS3 Inside Surface Alucobond Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	98	24.6345	2.435	.246
IS3	98	22.6949	1.558	.157

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
1.9396	1.590	.161	.768 .000	12.08	97	.000

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS5 Inside Surface GRC Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	98	24.6345	2.435	.246
IS5	98	22.6192	1.241	.125

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.	
2.0153	1.432	.145	.896	.000	13.93	97	.000

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS7 Inside Surface Full Masonry Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	98	24.6345	2.435	.246
IS7	98	25.6780	4.094	.414

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.	
-1.0435	2.786	.281	.749	.000	-3.71	97	.000

This procedure was completed at 18:11:00

t-test pairs= IS6 WITH IS1 IS2 IS3 IS5 IS7.

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Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS1 Inside Surface Armour Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	96	22.9654	1.182	.121
IS1	96	21.5551	.812	.083

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
1.4103	.813	.083	.727 .000	17.00	95	.000

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Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS2 Inside Surface Wooden Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	96	22.9654	1.182	.121
IS2	96	22.2736	1.404	.143

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
.6918	1.010	.103	.708 .000	6.71	95	.000

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Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS3 Inside Surface Alucobond Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	96	22.9654	1.182	.121
IS3	96	21.0274	.877	.090

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
1.9380	.962	.098	.598 .000	19.73	95	.000

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS5 Inside Surface GRC Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	96	22.9654	1.182	.121
IS5	96	21.6439	.634	.065

(Difference) Mean	Standard Deviation	Standard Error	Corr.	2-Tail Prob.	t Value	Degrees of Freedom	2-Tail Prob.
1.3216	.794	.081	.780	.000	16.32	95	.000

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS7 Inside Surface Full Masonry Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	96	22.9654	1.182	.121
IS7	96	23.6238	1.107	.113

(Difference) Mean	Standard Deviation	Standard Error	Corr.	2-Tail Prob.	t Value	Degrees of Freedom	2-Tail Prob.
-.6583	.944	.096	.661	.000	-6.83	95	.000

This procedure was completed at 18:05:17

This procedure was completed at 16:35:18
 set printer=on.
 t-test pairs= IS6 WITH IS1 IS4 IS3 IS5 IS8.

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
 IS1 Inside Surface Armour Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	98	24.4303	2.558	.258
IS1	98	22.5173	1.400	.141

(Difference) Mean	Standard Deviation	Standard Error	Corr.	2-Tail Prob.	t Value	Degrees of Freedom	2-Tail Prob.
1.9130	1.528	.154	.861	.000	12.39	97	.000

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
 IS4 Inside Surface Masonry With ICC Ins Wall

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	98	24.4303	2.558	.258
IS4	98	24.5873	2.459	.248

(Difference) Mean	Standard Deviation	Standard Error	Corr.	2-Tail Prob.	t Value	Degrees of Freedom	2-Tail Prob.
-.1570	.191	.019	.998	.000	-8.12	97	.000

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
 IS3 Inside Surface Alucobond Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	98	24.4303	2.558	.258
IS3	98	22.5244	1.589	.160

(Difference) Mean	Standard Deviation	Standard Error	Corr.	2-Tail Prob.	t Value	Degrees of Freedom	2-Tail Prob.
1.9059	1.648	.167	.781	.000	11.45	97	.000

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS5 Inside Surface GRC Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	98	24.4303	2.558	.258
IS5	98	22.6567	1.336	.135

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
1.7736	1.426	.144	.921 .000	12.31	97	.000

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS8 Inside Surface Clear Glass Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	98	24.4303	2.558	.258
IS8	98	29.3470	4.720	.477

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
-4.9167	3.138	.317	.786 .000	-15.51	97	.000

This procedure was completed at 16:36:52

t-test pairs= IS6 WITH IS1 IS4 IS3 IS5 IS8.

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Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS1 Inside Surface Armour Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	96	22.5801	1.378	.141
IS1	96	21.3266	.884	.090

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
1.2535	.933	.095	.743 .000	13.16	95	.000

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Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS4 Inside Surface Masonry With ICC Ins Wall

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	96	22.5801	1.378	.141
IS4	96	23.0259	1.416	.144

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
-.4458	.136	.014	.996 .000	-32.10	95	.000

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Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS3 Inside Surface Alucobond Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	96	22.5801	1.378	.141
IS3	96	20.8175	.978	.100

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.
1.7626	1.180	.120	.543 .000	14.64	95	.000

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS5 Inside Surface GRC Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	96	22.5801	1.378	.141
IS5	96	21.3905	.719	.073

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.	
1.1896	.924	.094	.789	.000	12.62	95	.000

Paired samples t-test: IS6 Inside Surface Masonry Wall Temp
IS8 Inside Surface Clear Glass Wall Temp

Variable	Number of Cases	Mean	Standard Deviation	Standard Error
IS6	96	22.5801	1.378	.141
IS8	96	22.7238	1.120	.114

(Difference) Mean	Standard Deviation	Standard Error	2-Tail Corr. Prob.	t Value	Degrees of Freedom	2-Tail Prob.	
-.1436	.545	.056	.925	.000	-2.58	95	.011

This procedure was completed at 16:41:42

CORR VAR=IS1 OS1 OA IA Rad WS RH.

The raw data or transformation pass is proceeding
195 cases are written to the uncompressed active file.

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Correlations:	IS1	OS1	OA	IA	RAD	WS
IS1	1.0000	.6315**	.7496**	.7237**	.5455**	.1919*
OS1	.6315**	1.0000	.9053**	.2105*	.8773**	.1422
OA	.7496**	.9053**	1.0000	.2273**	.7924**	.1923*
IA	.7237**	.2105*	.2273**	1.0000	.1926*	.0532
RAD	.5455**	.8773**	.7924**	.1926*	1.0000	.1485
WS	.1919*	.1422	.1923*	.0532	.1485	1.0000
RH	-.7522**	-.8751**	-.9411**	-.2578**	-.7916**	-.1761*

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

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Correlations: RH

IS1	-.7522**
OS1	-.8751**
OA	-.9411**
IA	-.2578**
RAD	-.7916**
WS	-.1761*
RH	1.0000

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

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This procedure was completed at 22:10:28
PLOT / SYMBOL="*" / PLOT IS1 WITH OS1 OA IA Rad WS RH.
PLOT requires 4128 BYTES of workspace for execution.

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***** P L O T *****

Data Information

195 unweighted cases accepted.

Frequencies and symbols used (not applicable for control or overlay plots)

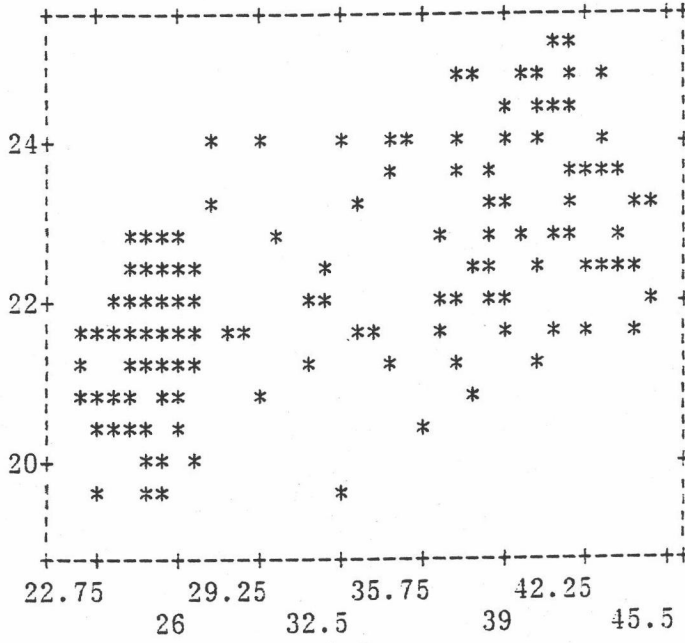
1 - *

PLOT OF IS1 WITH OS1

I
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A



Outside Surface Amour Wall Temp

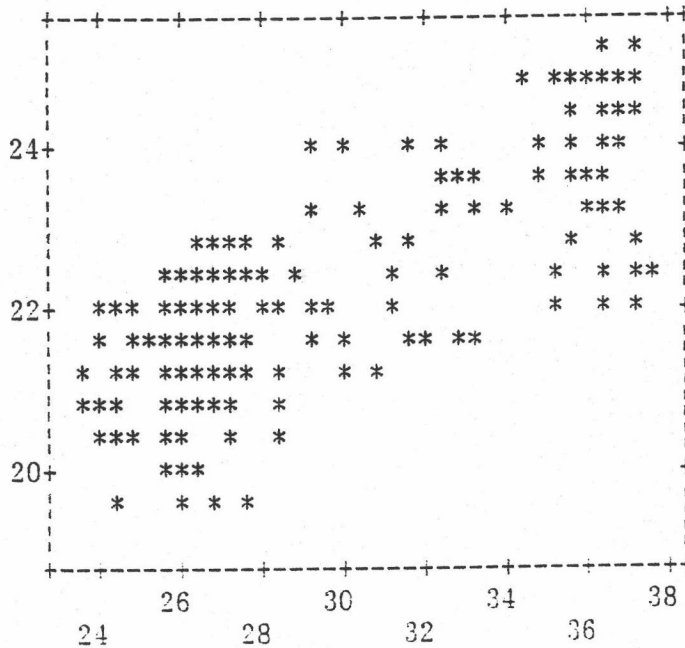
194 cases plotted.

PLOT OF IS1 WITH OA

I
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i
d
e

S
u
r
f
a
c
e

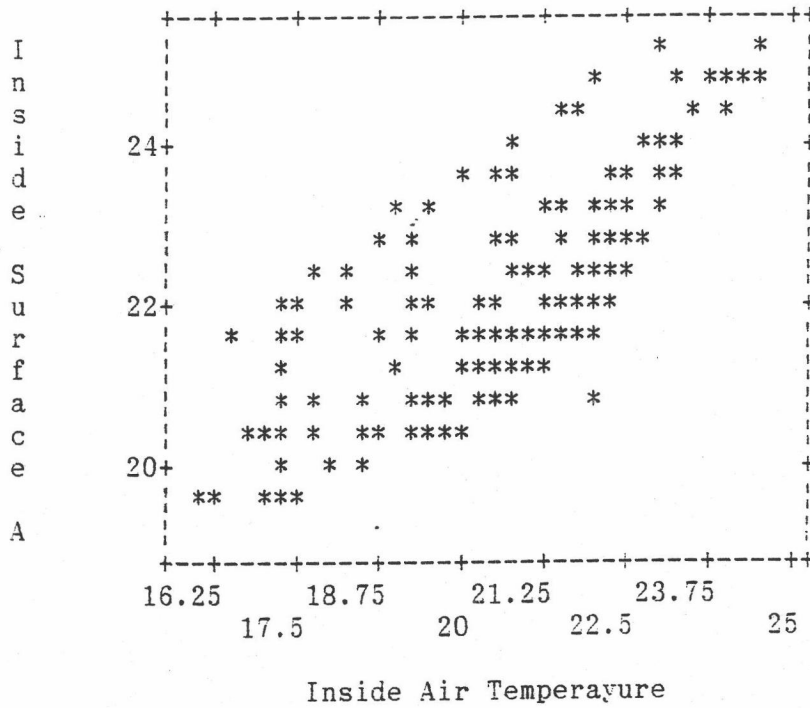
A



Outside Air Temperature

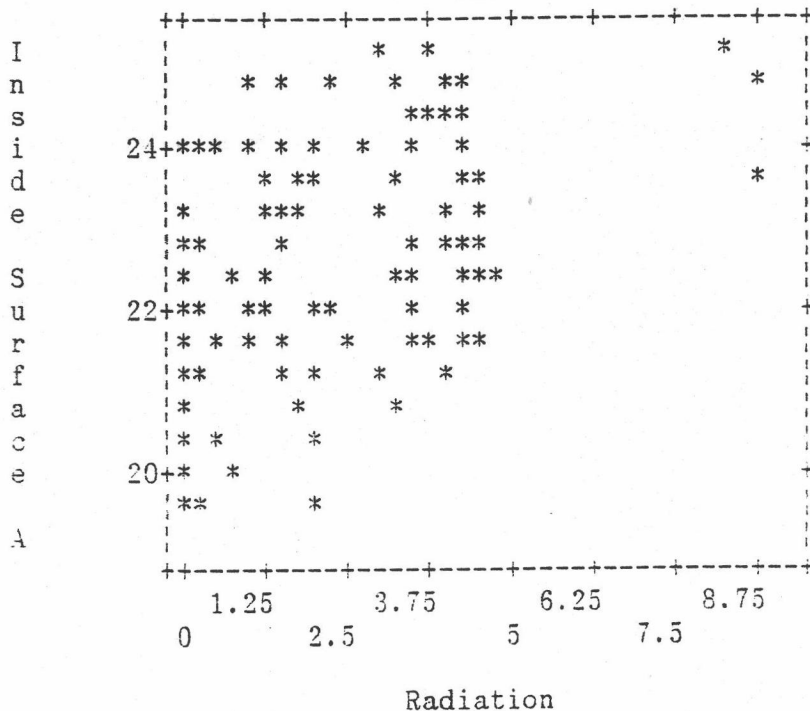
194 cases plotted.

PLOT OF IS1 WITH IA

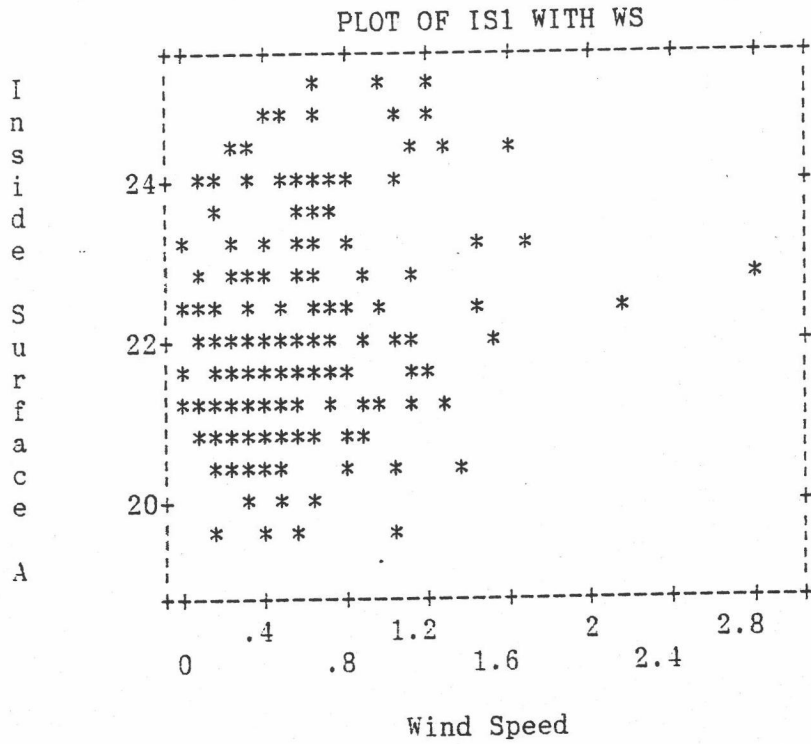


194 cases plotted.

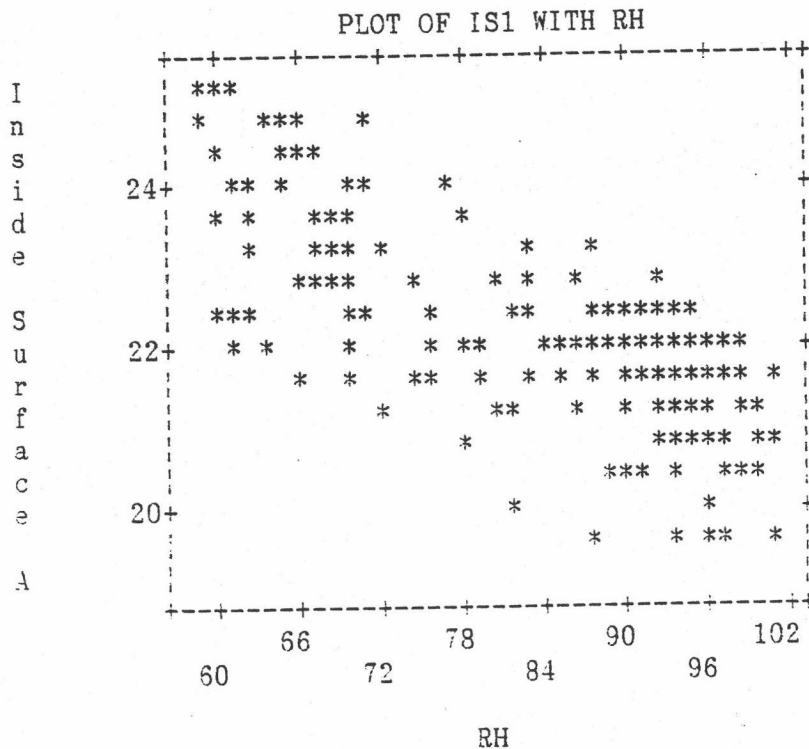
PLOT OF IS1 WITH RAD



194 cases plotted.



194 cases plotted.



CORR VAR=IS2 OS2 OA IA Rad WS RH.

The raw data or transformation pass is proceeding
195 cases are written to the uncompressed active file.

Correlations:	IS2	OS2	OA	IA	RAD	WS
IS2	1.0000	.7189**	.7969**	.4609**	.5892**	.2715**
OS2	.7189**	1.0000	.9213**	.2292**	.8538**	.1744*
OA	.7969**	.9213**	1.0000	.2273**	.7924**	.1923*
IA	.4609**	.2292**	.2273**	1.0000	.1926*	.0532
RAD	.5892**	.8538**	.7924**	.1926*	1.0000	.1485
WS	.2715**	.1744*	.1923*	.0532	.1485	1.0000
RH	-.7824**	-.9152**	-.9411**	-.2578**	-.7916**	-.1761*

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

Correlations: RH

IS2	-.7824**
OS2	-.9152**
OA	-.9411**
IA	-.2578**
RAD	-.7916**
WS	-.1761*
RH	1.0000

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

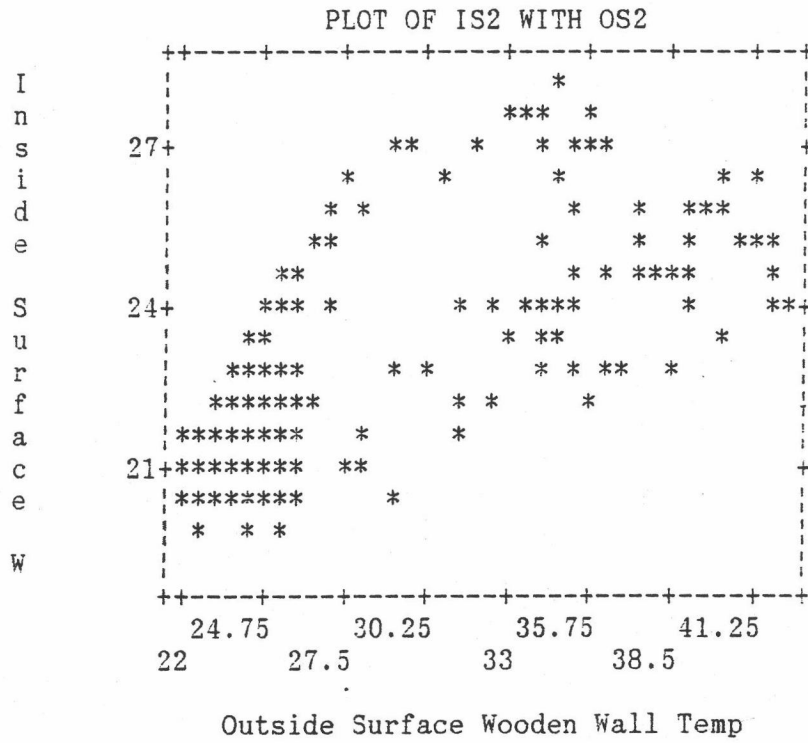
This procedure was completed at 22:35:28
PLOT / SYMBOL= "*" / PLOT IS2 WITH OS2 OA IA Rad WS RH.
PLOT requires 4128 BYTES of workspace for execution.

***** P L O T *****

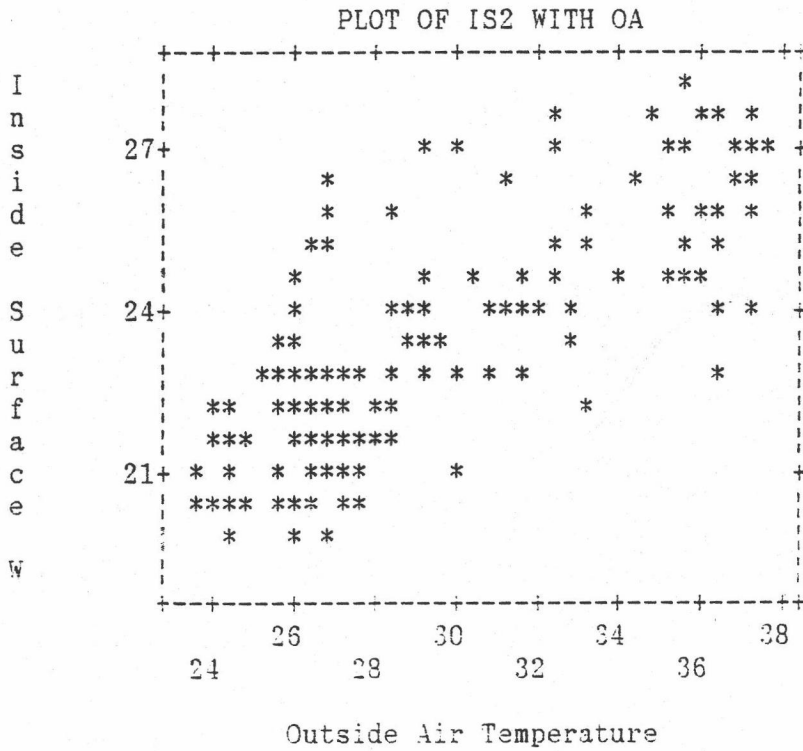
Data Information

195 unweighted cases accepted.

Frequencies and symbols used (not applicable for control or overlay plots)

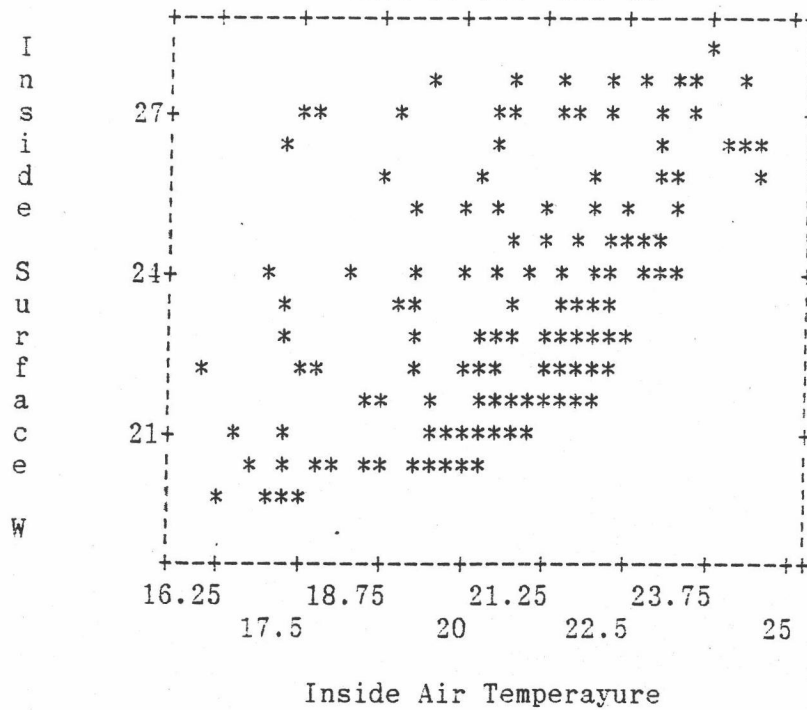


194 cases plotted.



194 cases plotted.

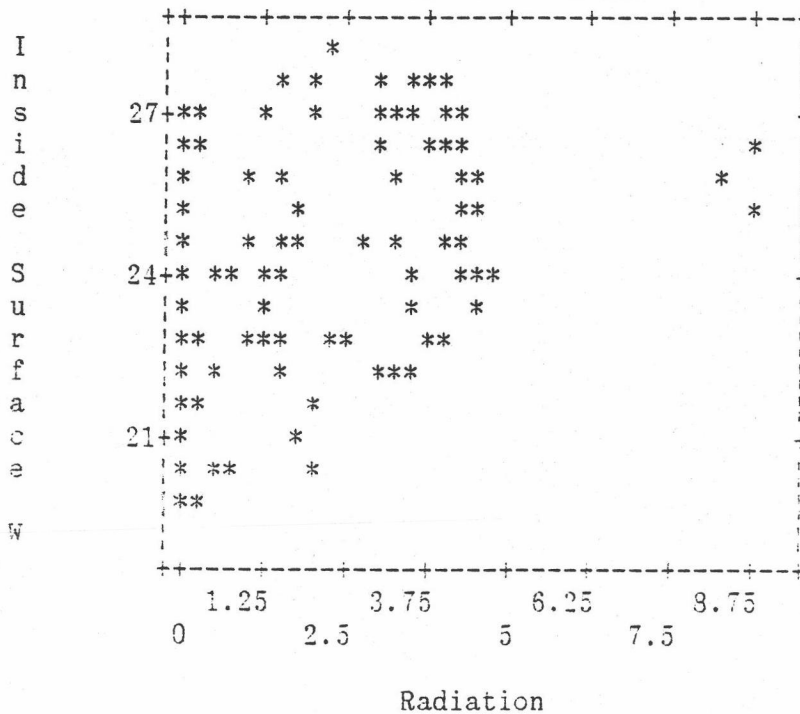
PLOT OF IS2 WITH IA



Inside Air Temperayure

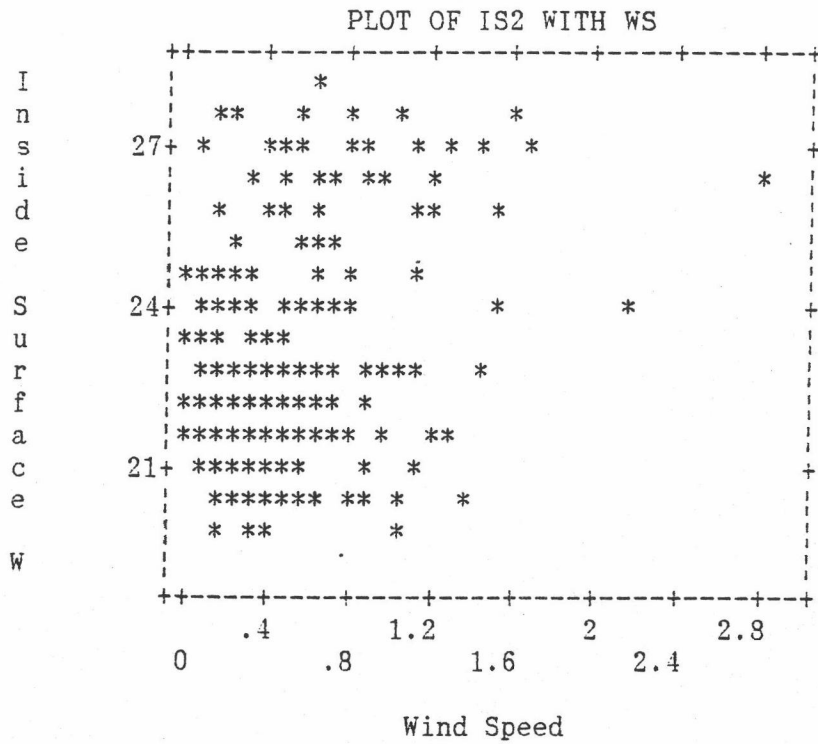
194 cases plotted.

PLOT OF IS2 WITH RAD

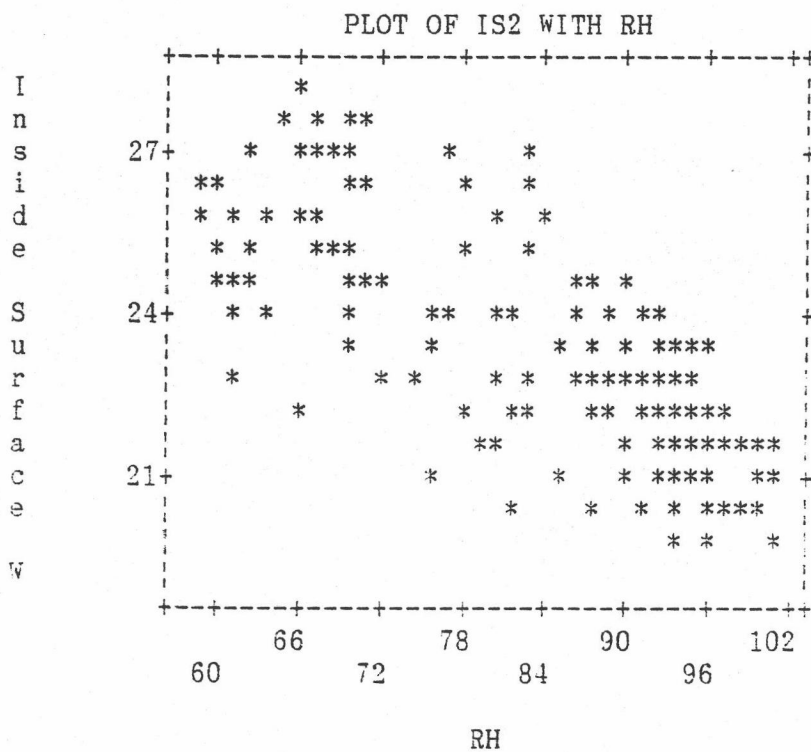


Radiation

194 cases plotted.



194 cases plotted.



This procedure was completed at 22:43:06
CORR VAR=IS3 OS3 OA IA Rad WS RH.

Correlations:	IS3	OS3	OA	IA	RAD	WS
IS3	1.0000	.7914**	.7937**	.7241**	.6798**	.1633
OS3	.7914**	1.0000	.9295**	.2215**	.8810**	.1634
OA	.7937**	.9295**	1.0000	.2273**	.7924**	.1923*
IA	.7241**	.2215**	.2273**	1.0000	.1926*	.0532
RAD	.6798**	.8810**	.7924**	.1926*	1.0000	.1485
WS	.1633	.1634	.1923*	.0532	.1485	1.0000
RH	-.7972**	-.8994**	-.9411**	-.2578**	-.7916**	-.1761*

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

Correlations: RH

IS3	-.7972**
OS3	-.8994**
OA	-.9411**
IA	-.2578**
RAD	-.7916**
WS	-.1761*
RH	1.0000

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

This procedure was completed at 22:43:28
PLOT / SYMBOL="*" / PLOT IS3 WITH OS3 OA IA Rad WS RH.
PLOT requires 4128 BYTES of workspace for execution.

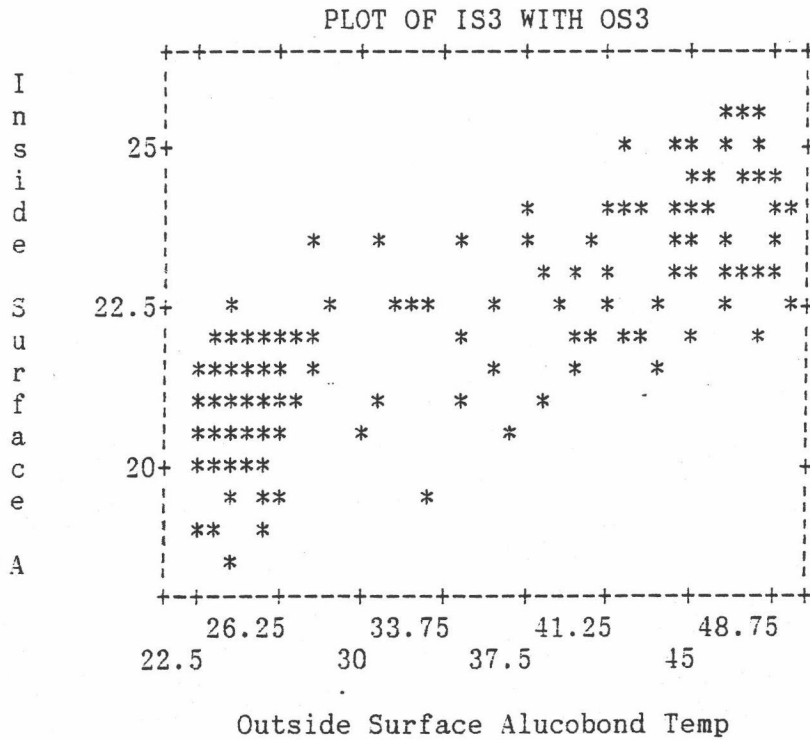
***** P L O T *****

Data Information

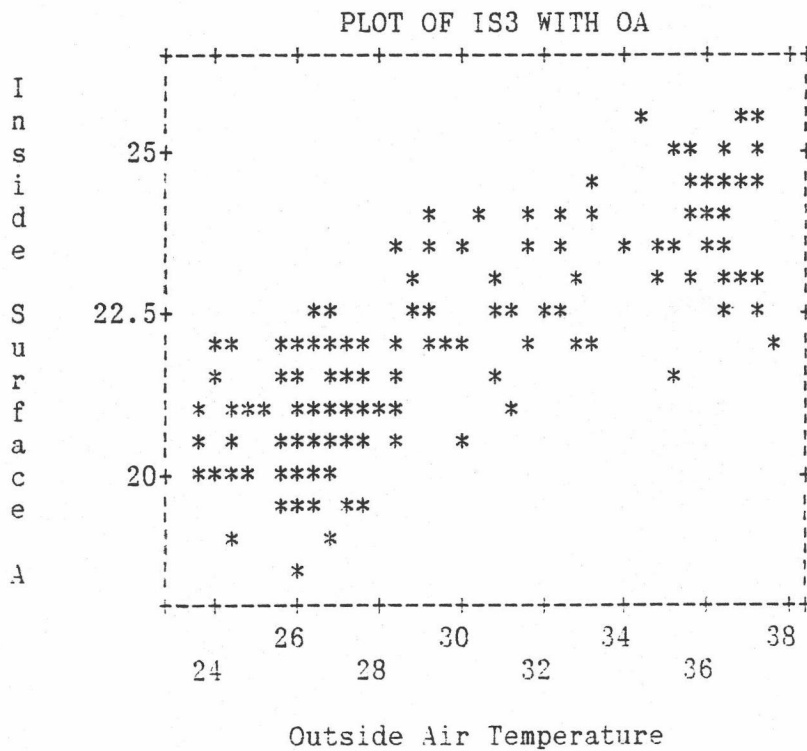
195 unweighted cases accepted.

Frequencies and symbols used (not applicable for control or overlay plots)

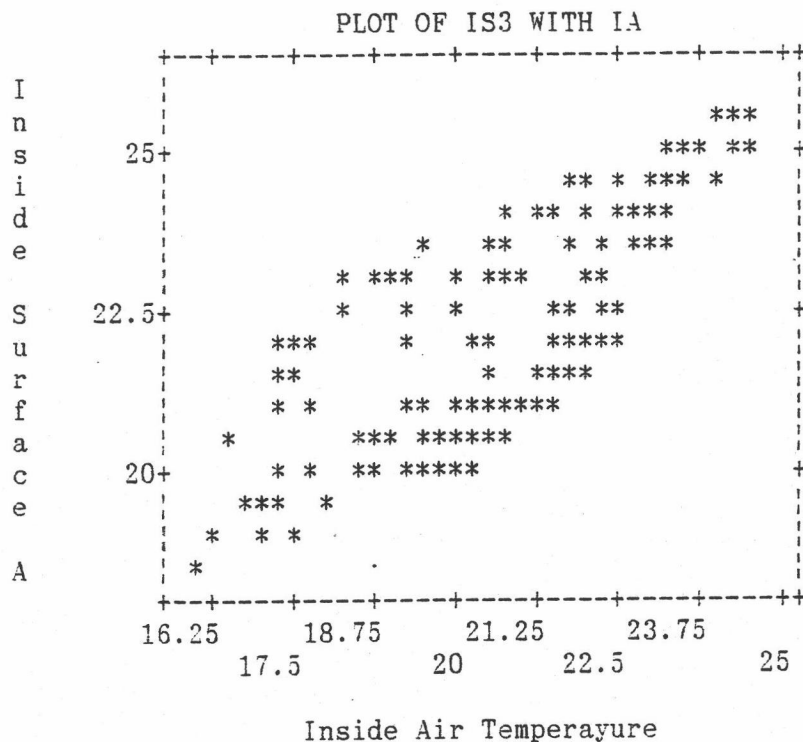
1 - *



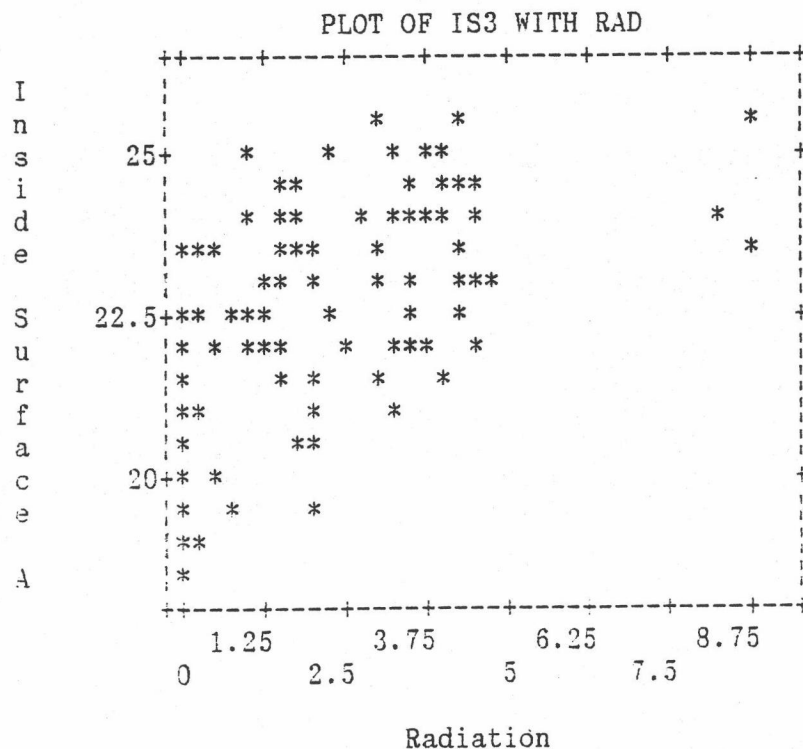
194 cases plotted.



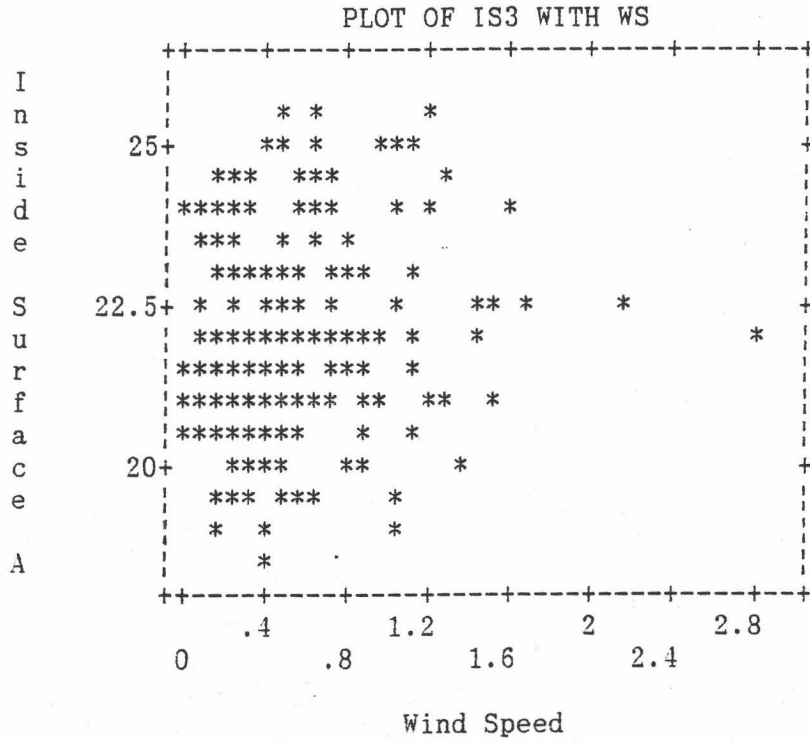
194 cases plotted.



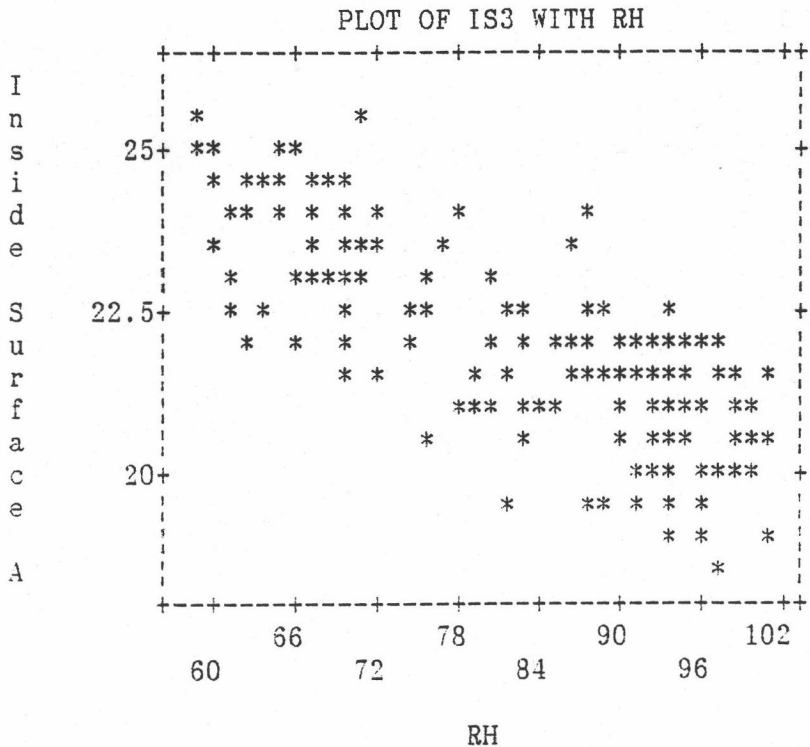
194 cases plotted.



194 cases plotted.



194 cases plotted.



194 cases plotted.

This procedure was completed at 23:35:52
CORR VAR=IS4 OS4 OA IA Rad WS RH.

Correlations:	IS4	OS4	OA	IA	RAD	WS
IS4	1.0000	.8870**	.7662**	.3042**	.1932*	.1729*
OS4	.8870**	1.0000	.8825**	.2052*	.3938**	.2367**
OA	.7662**	.8825**	1.0000	.2300**	.1472	.1798*
IA	.3042**	.2052*	.2300**	1.0000	.0821	.0784
RAD	.1932*	.3938**	.1472	.0821	1.0000	.2257**
WS	.1729*	.2367**	.1798*	.0784	.2257**	1.0000
RH	-.7955**	-.8987**	-.9683**	-.2241**	-.1950*	-.1984*

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

Correlations: RH

IS4	-.7955**
OS4	-.8987**
OA	-.9683**
IA	-.2241**
RAD	-.1950*
WS	-.1984*
RH	1.0000

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

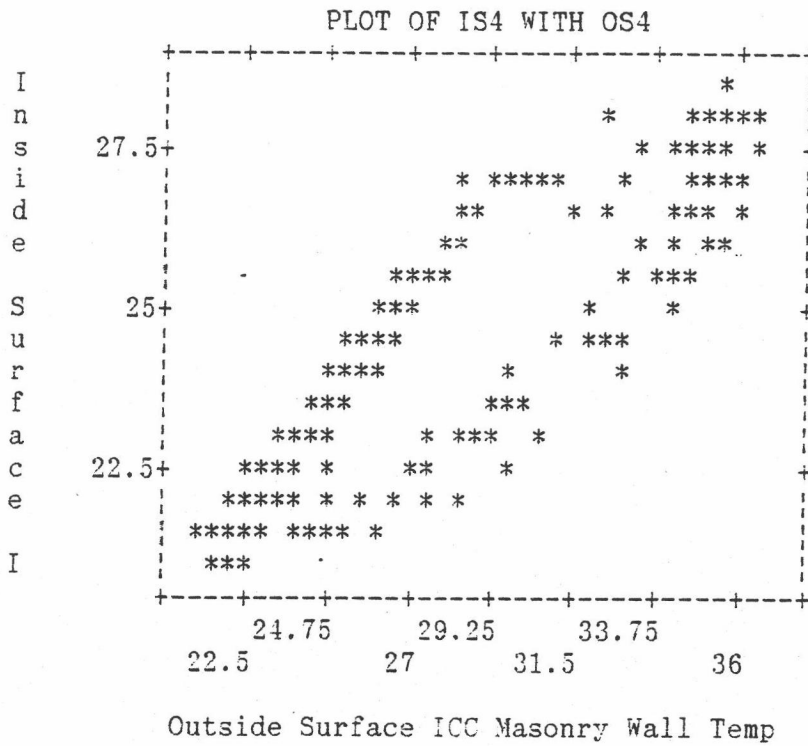
This procedure was completed at 23:36:14
PLOT / SYMBOL="*" / PLOT IS4 WITH OS4 OA IA Rad WS RH.
PLOT requires 4128 BYTES of workspace for execution.

***** P L O T *****

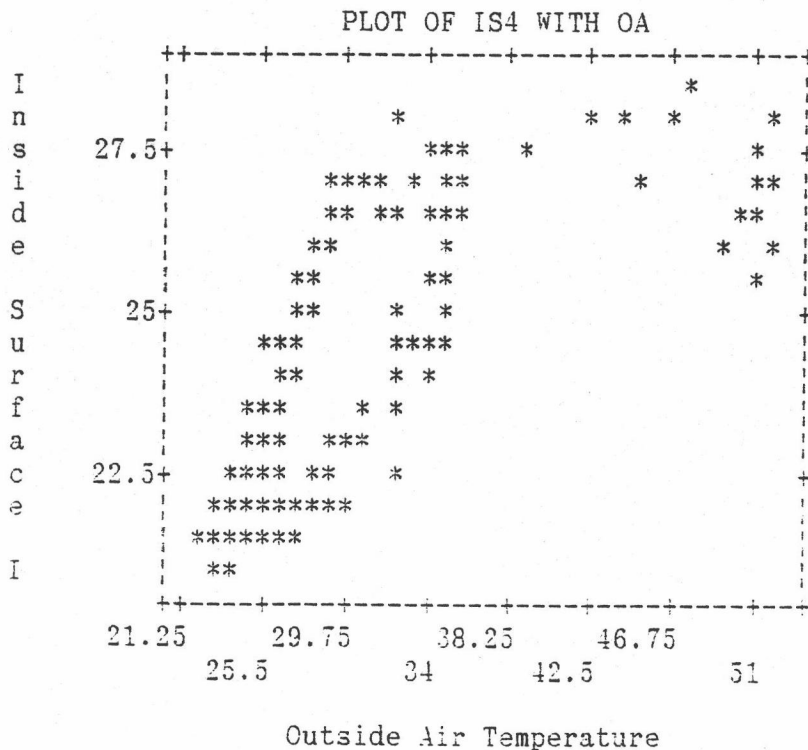
Data Information

195 unweighted cases accepted.

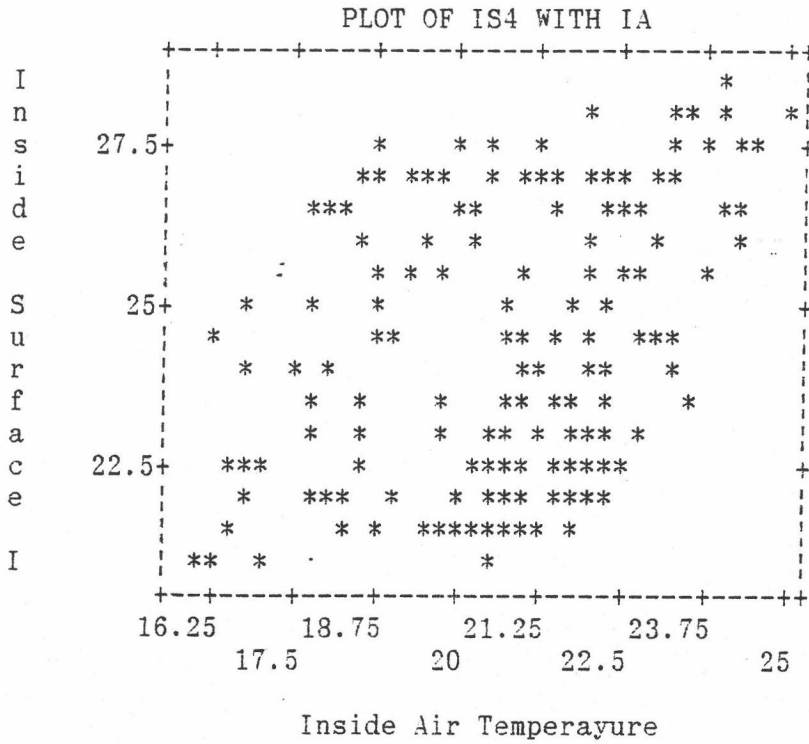
Frequencies and symbols used (not applicable for control or overlay plots)



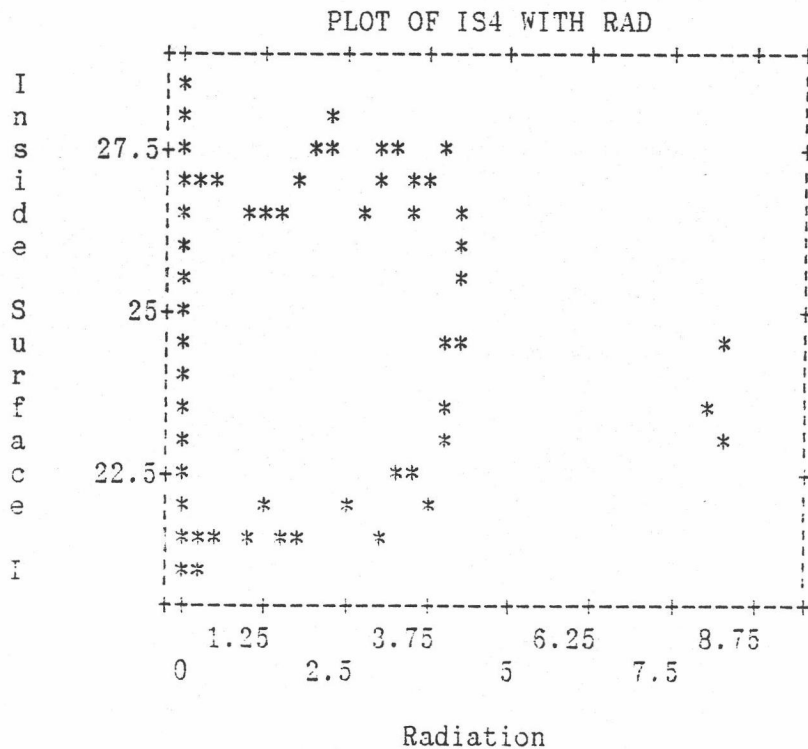
194 cases plotted.



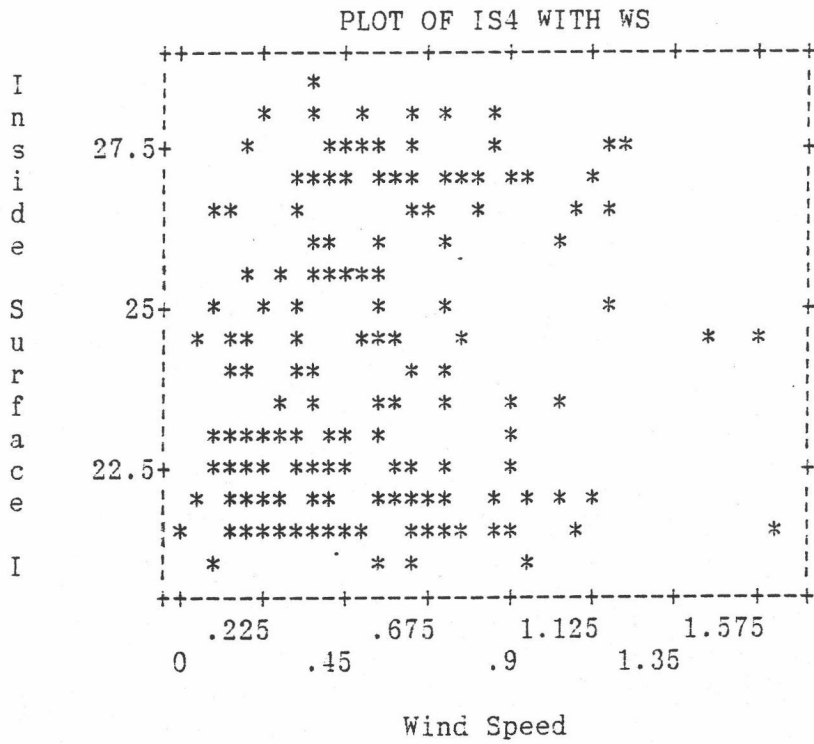
194 cases plotted.



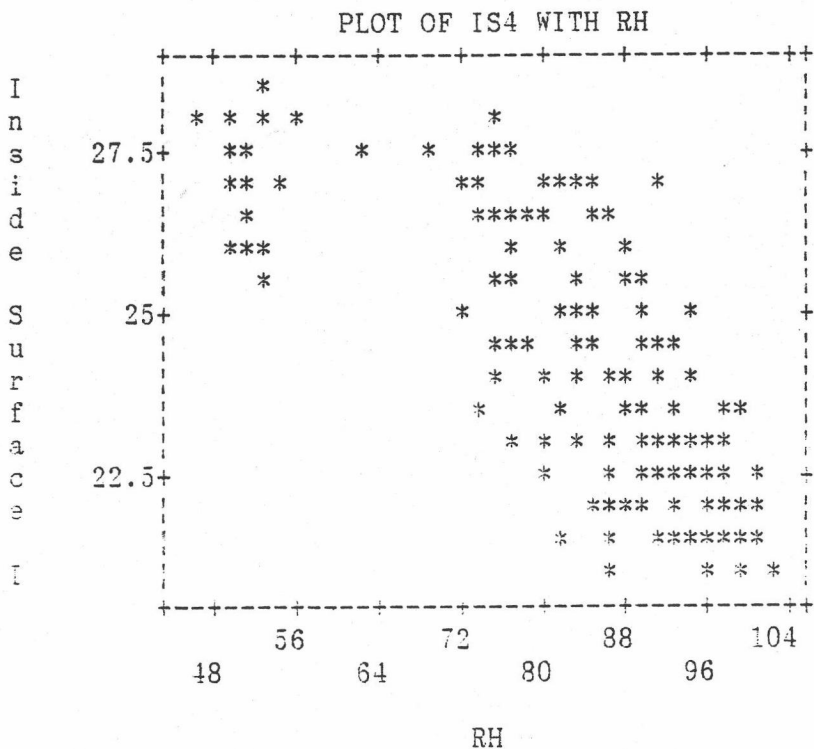
194 cases plotted.



194 cases plotted.



194 cases plotted.



194 cases plotted.

This procedure was completed at 23:07:40
CORR VAR=IS5 OS5 OA IA Rad WS RH.

Correlations:

	IS5	OS5	OA	IA	RAD	WS
IS5	1.0000	.7712**	.8192**	.6557**	.6038**	.2074*
OS5	-.7712**	1.0000	.9664**	.2273**	.8606**	.1804*
OA	.8192**	.9664**	1.0000	.2273**	.7924**	.1923*
IA	.6557**	.2273**	.2273**	1.0000	.1926*	.0532
RAD	.6038**	.8606**	.7924**	.1926*	1.0000	.1485
WS	.2074*	.1804*	.1923*	.0532	.1485	1.0000
RH	-.8074**	-.9263**	-.9411**	-.2578**	-.7916**	-.1761*

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

Correlations: RH

IS5	-.8074**
OS5	-.9263**
OA	-.9411**
IA	-.2578**
RAD	-.7916**
WS	-.1761*
RH	1.0000

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

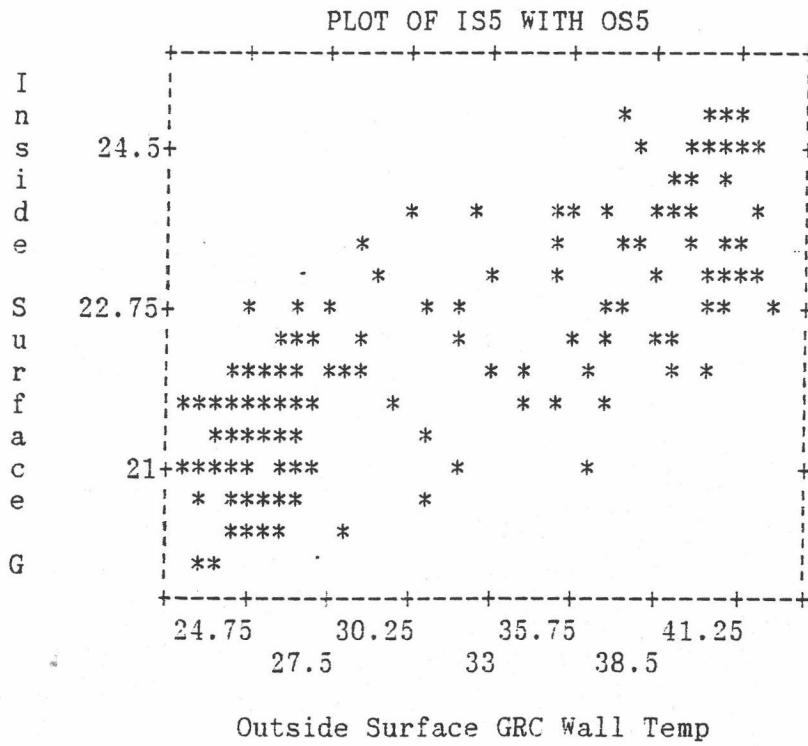
This procedure was completed at 23:08:02
PLOT / SYMBOL="*" / PLOT IS5 WITH OS5 OA IA Rad WS RH.
PLOT requires 4128 BYTES of workspace for execution.

***** P L O T *****

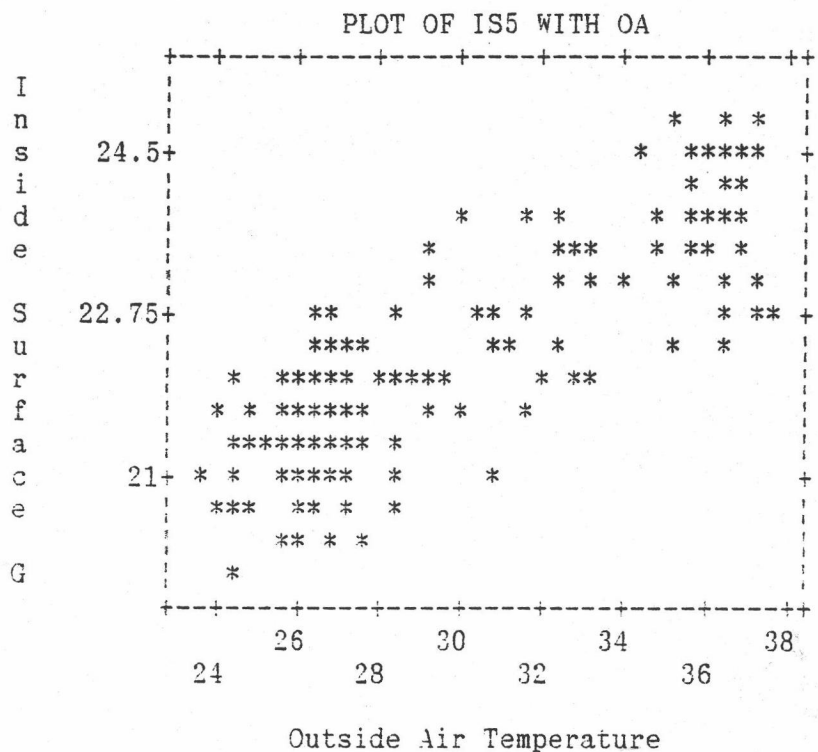
Data Information

195 unweighted cases accepted.

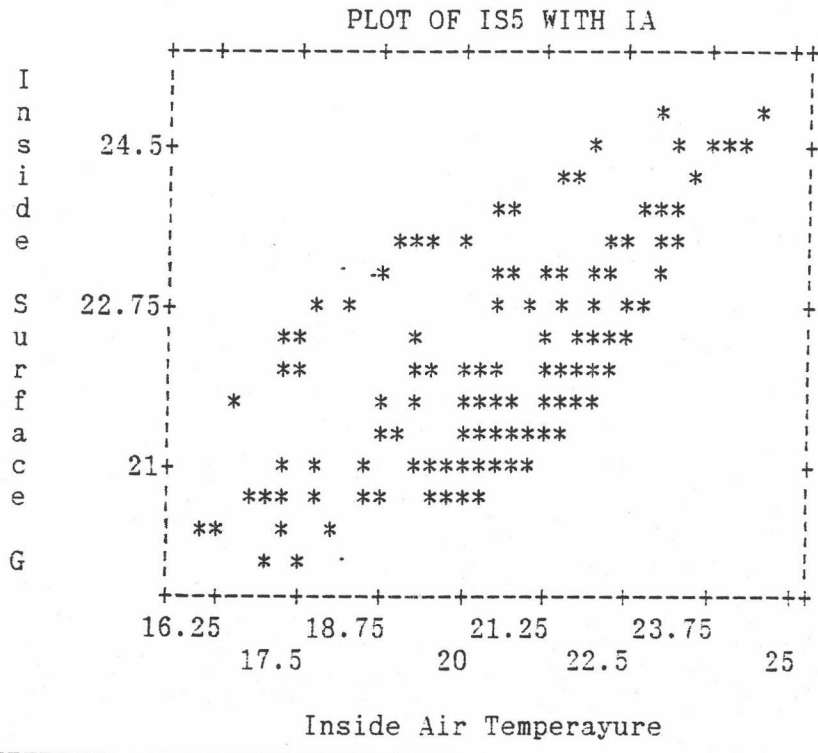
Frequencies and symbols used (not applicable for control or overlay plots)



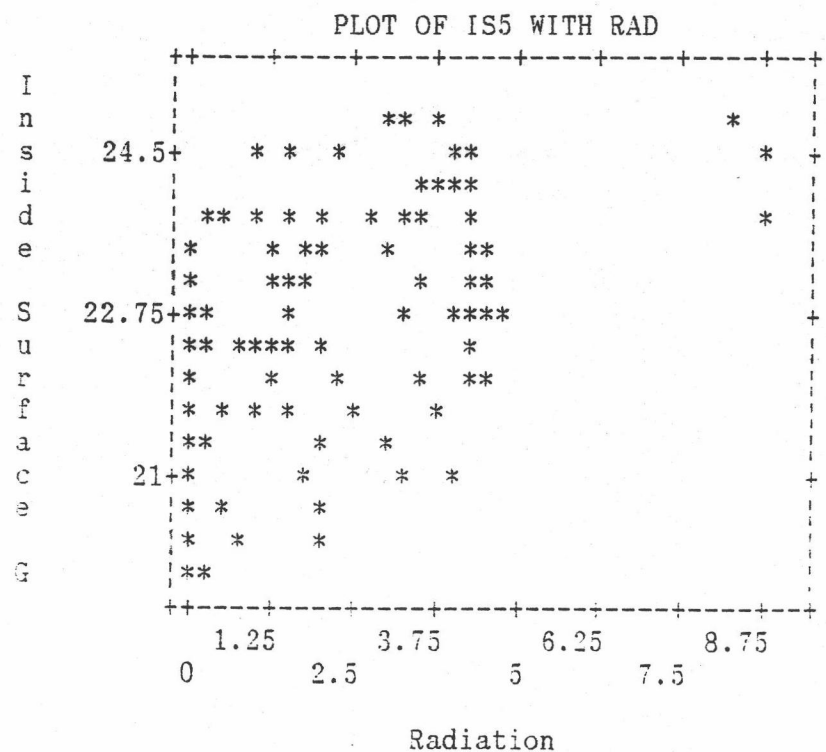
194 cases plotted.



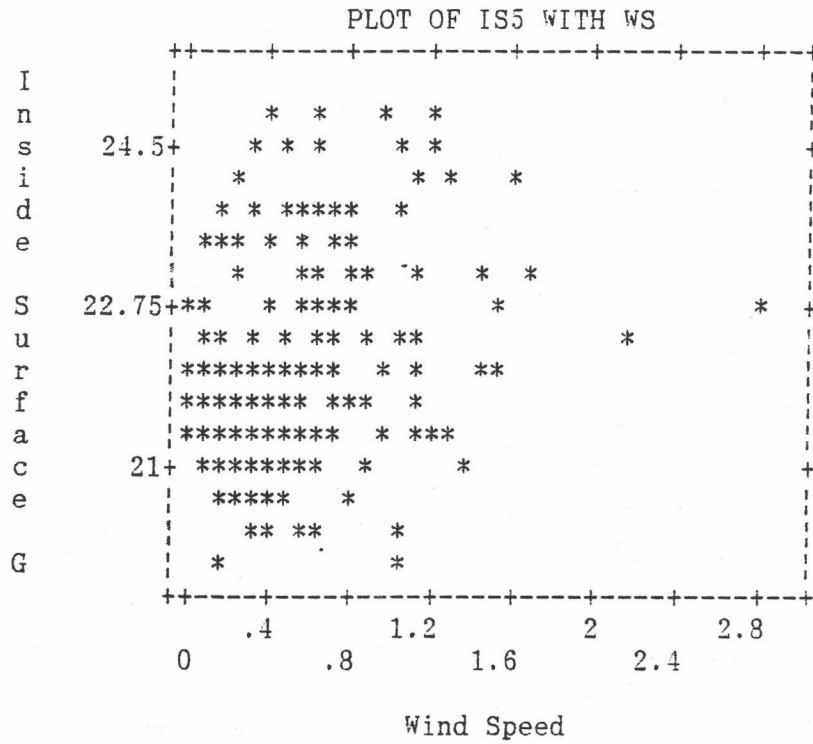
194 cases plotted.



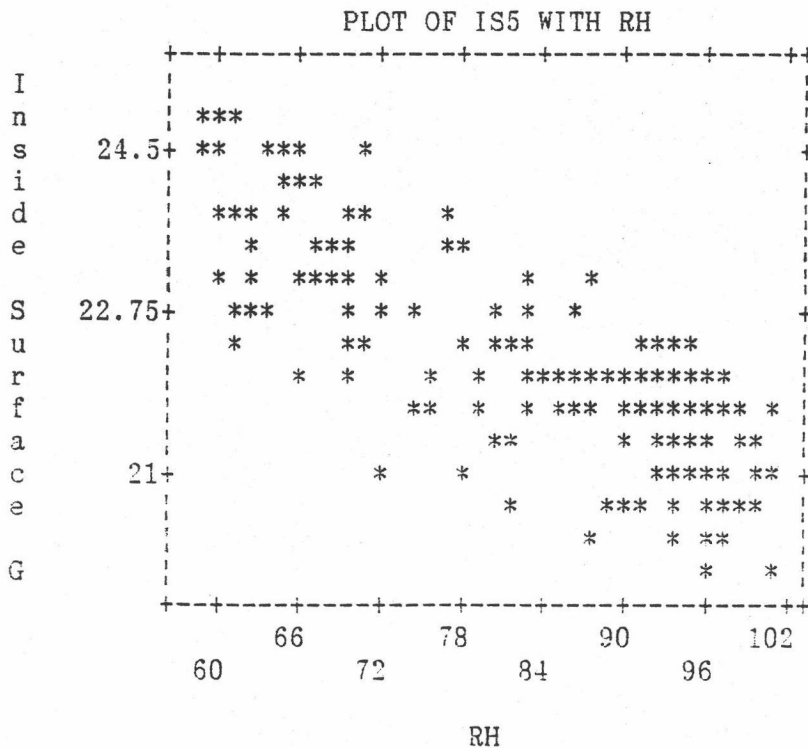
194 cases plotted.



194 cases plotted.



194 cases plotted.



194 cases plotted.

This procedure was completed at 22:18:02
CORR VAR=IS6 OS6 OA IA Rad WS RH.

Correlations:	IS6	OS6	OA	IA	RAD	WS
IS6	1.0000	.8713**	.8598**	.3629**	.5405**	.2233**
OS6	.8713**	1.0000	.9855**	.2372**	.8151**	.2015*
OA	.8598**	.9855**	1.0000	.2273**	.7924**	.1923*
IA	.3629**	.2372**	.2273**	1.0000	.1926*	.0532
RAD	.5405**	.8151**	.7924**	.1926*	1.0000	.1485
WS	.2233**	.2015*	.1923*	.0532	.1485	1.0000
RH	-.8699**	-.9613**	-.9411**	-.2578**	-.7916**	-.1761*

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

Correlations: RH

IS6	-.8699**
OS6	-.9613**
OA	-.9411**
IA	-.2578**
RAD	-.7916**
WS	-.1761*
RH	1.0000

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

This procedure was completed at 22:18:46
PLOT / SYMBOL="*" / PLOT IS6 WITH OS6 OA IA Rad WS RH.
PLOT requires 4128 BYTES of workspace for execution.

***** P L O T *****

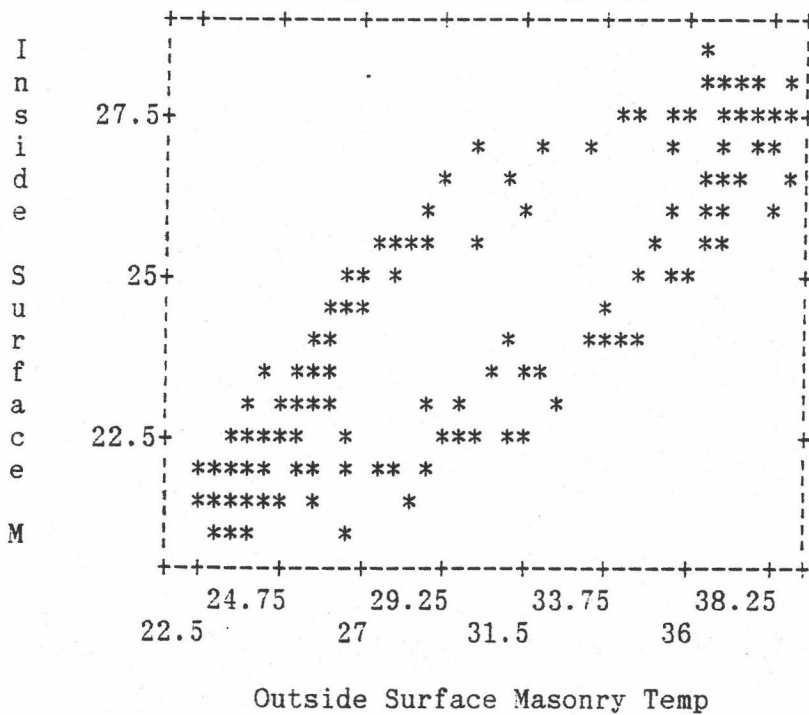
Data Information

195 unweighted cases accepted.

Frequencies and symbols used (not applicable for control or overlay plots)

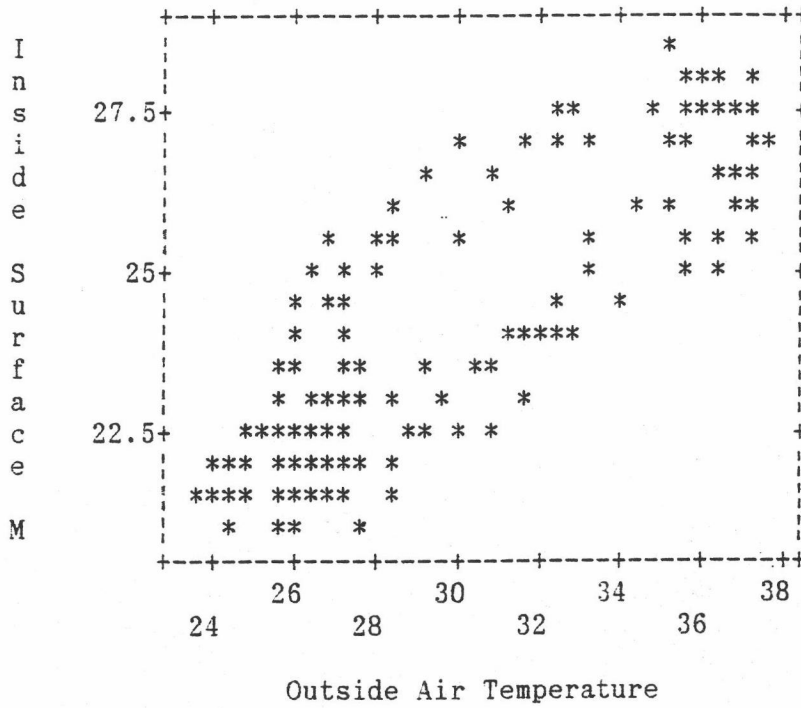
1 - *

PLOT OF IS6 WITH OS6



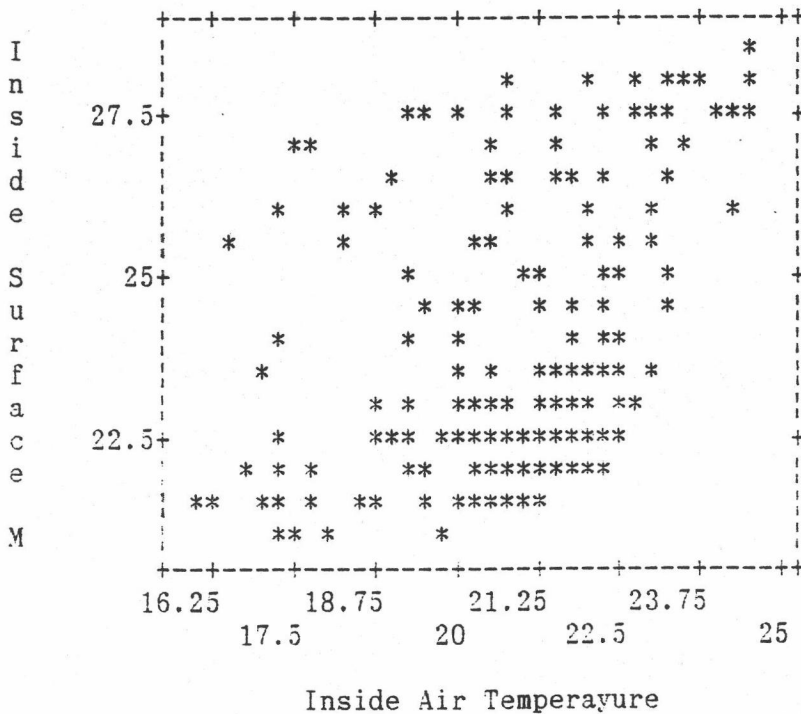
194 cases plotted.

PLOT OF IS6 WITH OA

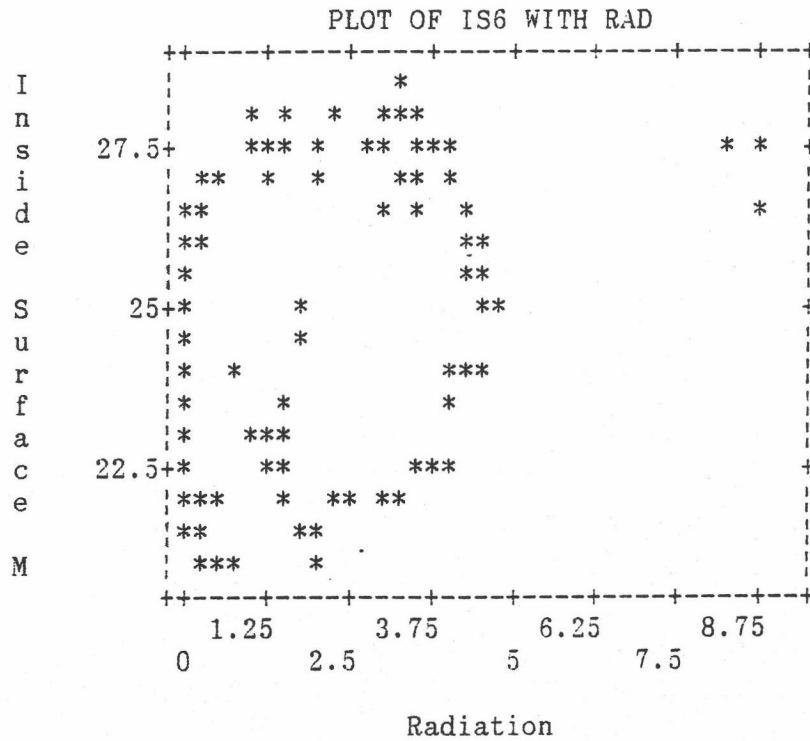


194 cases plotted.

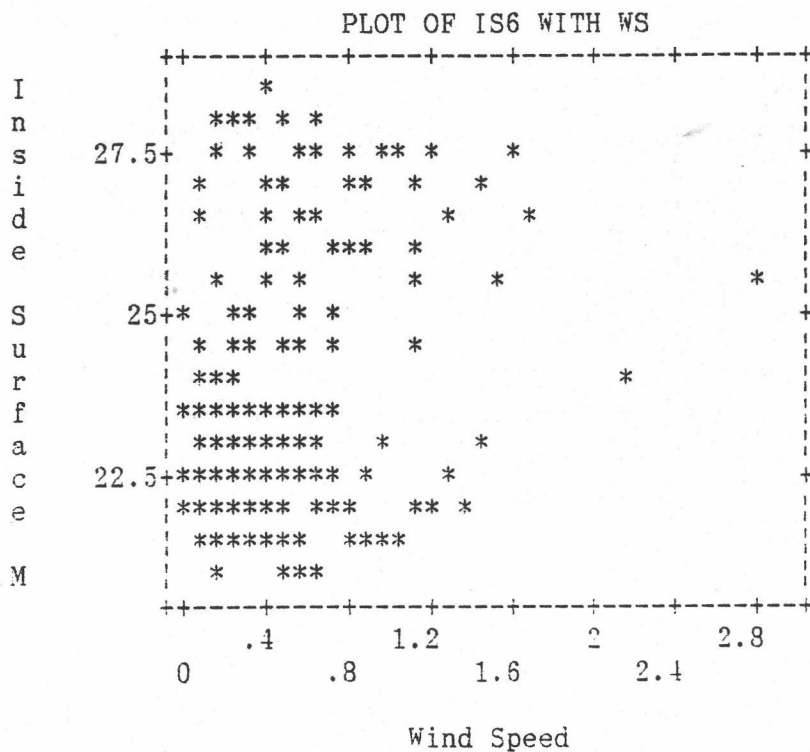
PLOT OF IS6 WITH IA



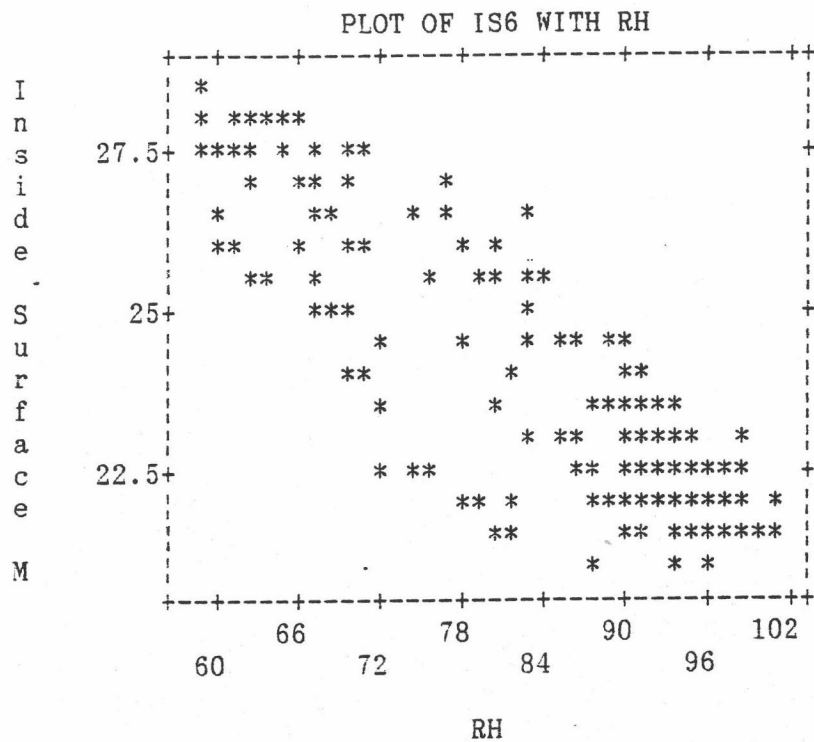
194 cases plotted.



194 cases plotted.



194 cases plotted.



194 cases plotted.

CORR VAR=IS7 OS7 OA IA Rad WS RH.
 The raw data or transformation pass is proceeding
 195 cases are written to the uncompressed active file.

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Correlations:	IS7	OS7	OA	IA	RAD	WS
IS7	1.0000	.6485**	.7271**	.2316**	.4505**	.1607
OS7	.6485**	1.0000	.9455**	.2442**	.8063**	.1277
OA	.7271**	.9455**	1.0000	.2273**	.7924**	.1923*
IA	.2316**	.2442**	.2273**	1.0000	.1926*	.0532
RAD	.4505**	.8063**	.7924**	.1926*	1.0000	.1485
WS	.1607	.1277	.1923*	.0532	.1485	1.0000
RH	-.6280**	-.9163**	-.9411**	-.2578**	-.7916**	-.1761*

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

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Correlations: RH

IS7	-.6280**
OS7	-.9163**
OA	-.9411**
IA	-.2578**
RAD	-.7916**
WS	-.1761*
RH	1.0000

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

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This procedure was completed at 23:00:40
 PLOT / SYMBOL= "*" / PLOT IS7 WITH OS7 OA IA Rad WS RH.
 PLOT requires 4128 BYTES of workspace for execution.

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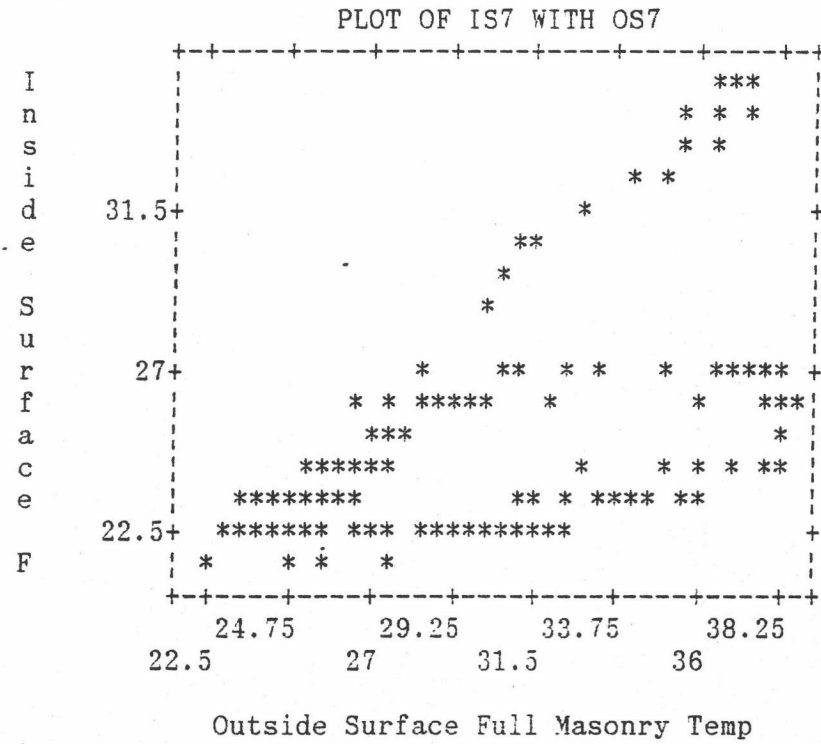
***** P L O T *****

Data Information

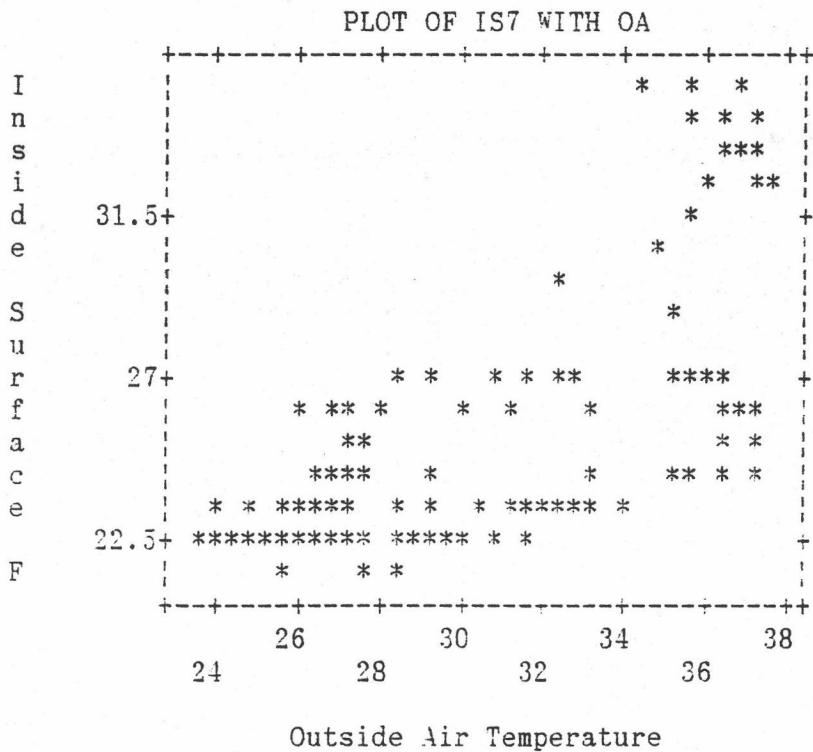
195 unweighted cases accepted.

Frequencies and symbols used (not applicable for control or overlay plots)

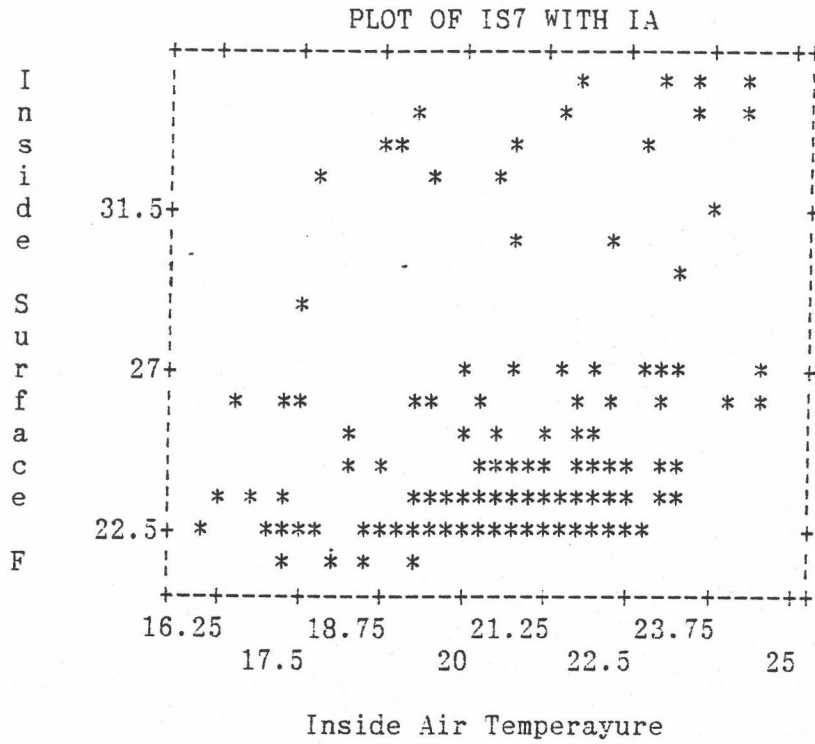
1 - *



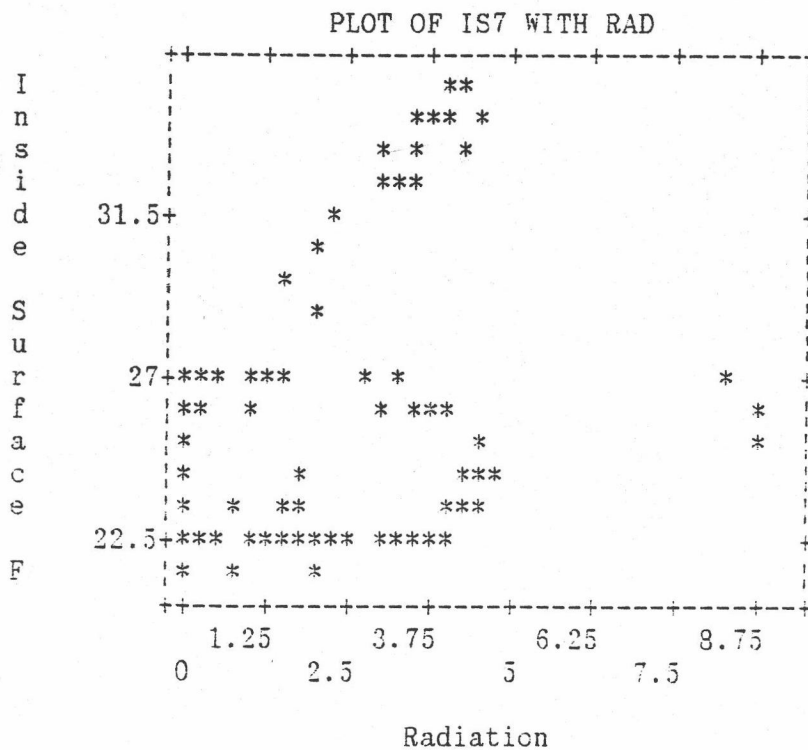
194 cases plotted.



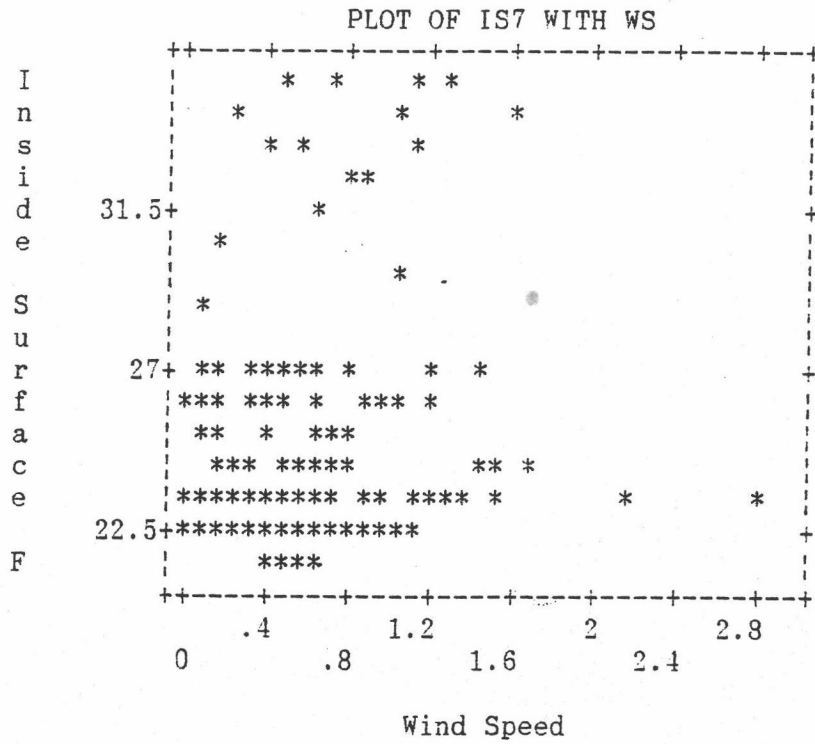
194 cases plotted.



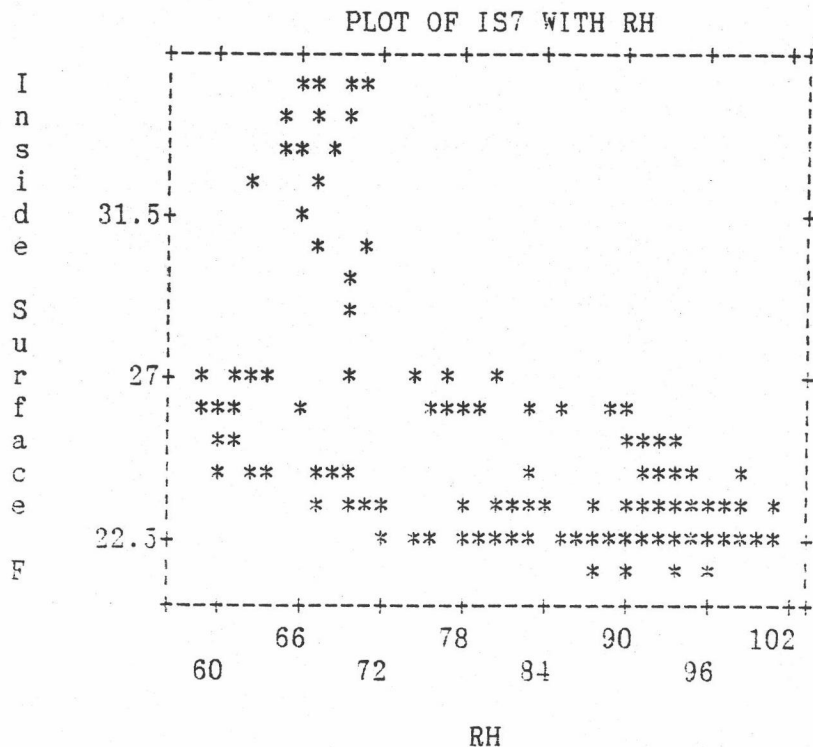
194 cases plotted.



194 cases plotted.



194 cases plotted.



194 cases plotted.

CORR VAR=IS8 OS8 OA IA Rad WS RH.
 The raw data or transformation pass is proceeding
 195 cases are written to the uncompressed active file.

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Correlations:	IS8	OS8	OA	IA	RAD	WS
IS8	1.0000	.9958**	.8658**	.2636**	.4678**	.2467**
OS8	.9958**	1.0000	.8734**	.2160*	.4664**	.2406**
OA	.8658**	.8734**	1.0000	.2300**	.1472	.1798*
IA	.2636**	.2160*	.2300**	1.0000	.0821	.0784
RAD	.4678**	.4664**	.1472	.0821	1.0000	.2257**
WS	.2467**	.2406**	.1798*	.0784	.2257**	1.0000
RH	-.8757**	-.8786**	-.9683**	-.2241**	-.1950*	-.1984*

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

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Correlations: RH

IS8	-.8757**
OS8	-.8786**
OA	-.9683**
IA	-.2241**
RAD	-.1950*
WS	-.1984*
RH	1.0000

N of cases: 194 1-tailed Signif: * - .01 ** - .001

" . " is printed if a coefficient cannot be computed

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This procedure was completed at 23:28:15
 PLOT / SYMBOL= "*" / PLOT IS8 WITH OS8 OA IA Rad WS RH.
 PLOT requires 4128 BYTES of workspace for execution.

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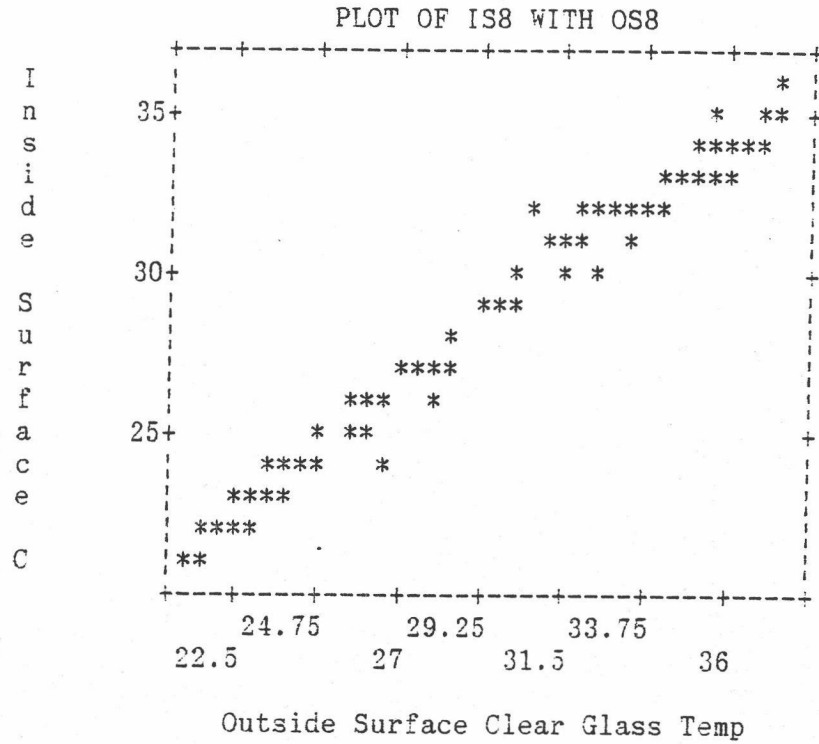
***** P L O T *****

Data Information

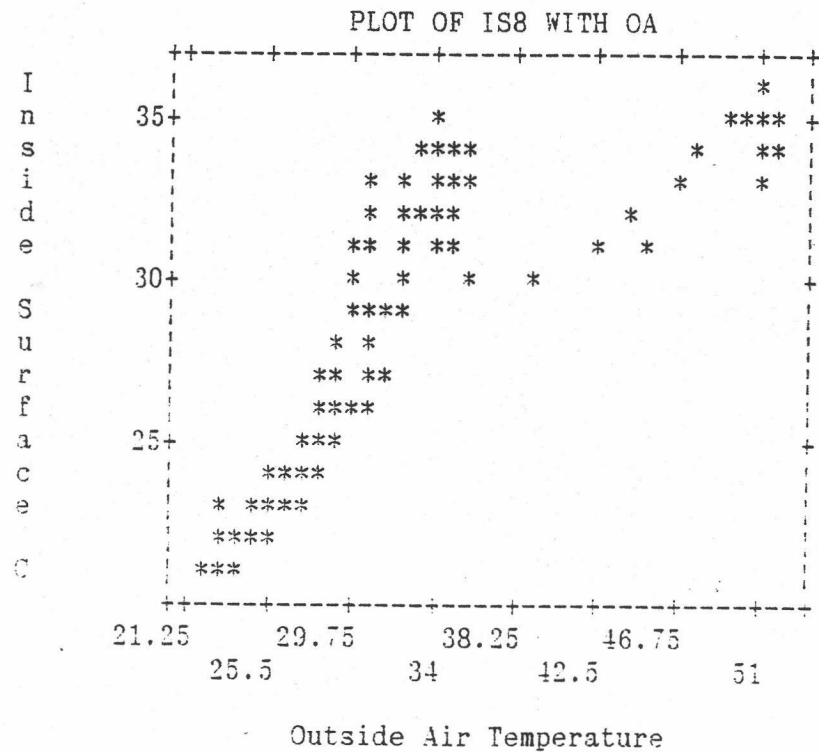
195 unweighted cases accepted.

Frequencies and symbols used (not applicable for control or overlay plots)

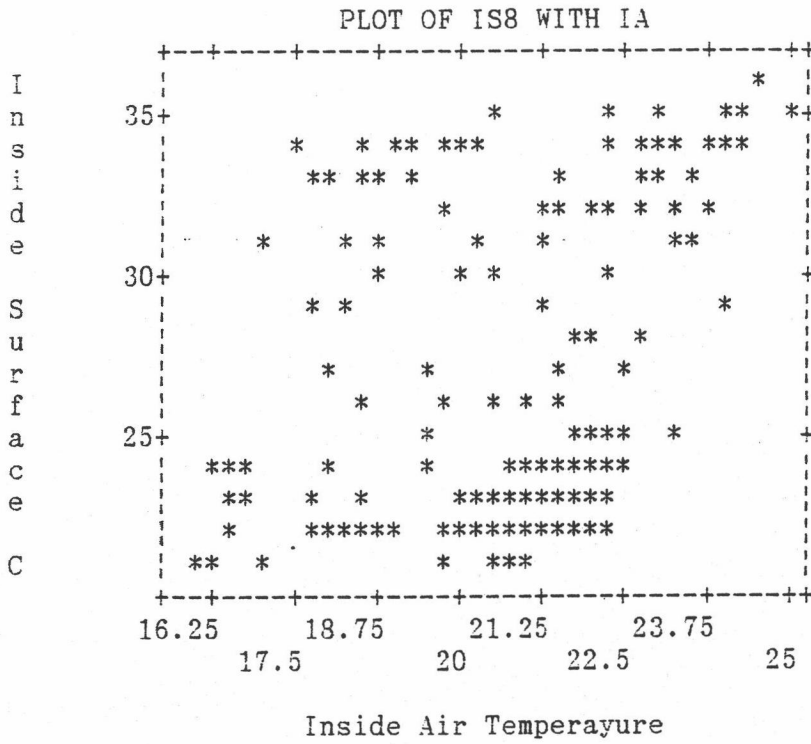
1 - *



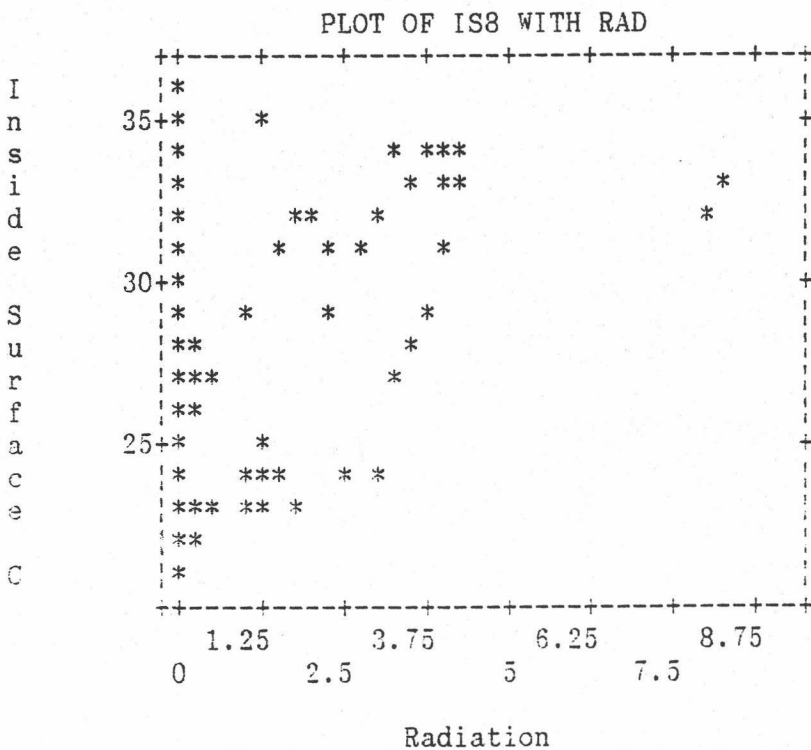
194 cases plotted.



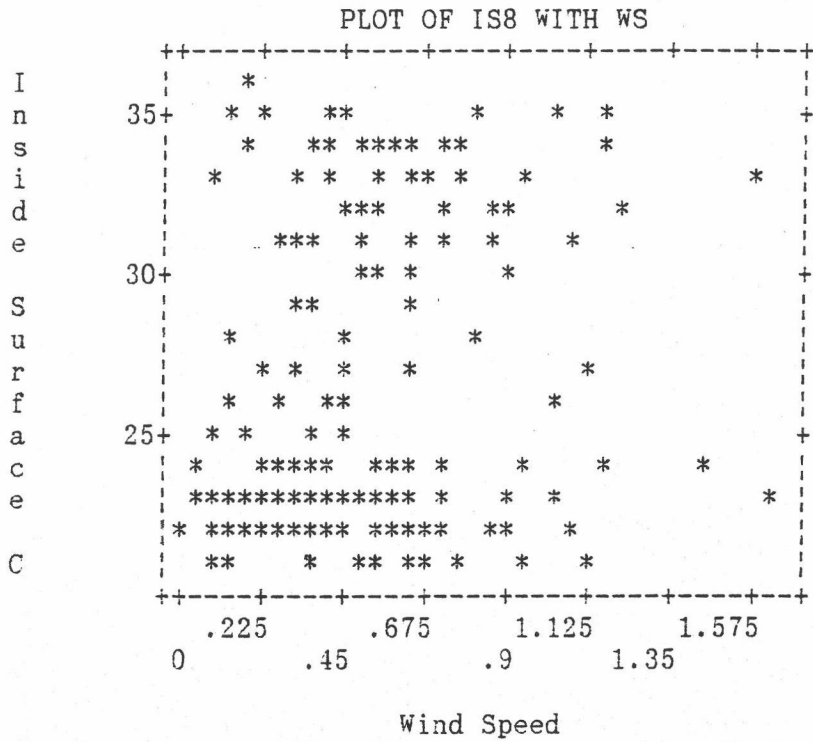
194 cases plotted.



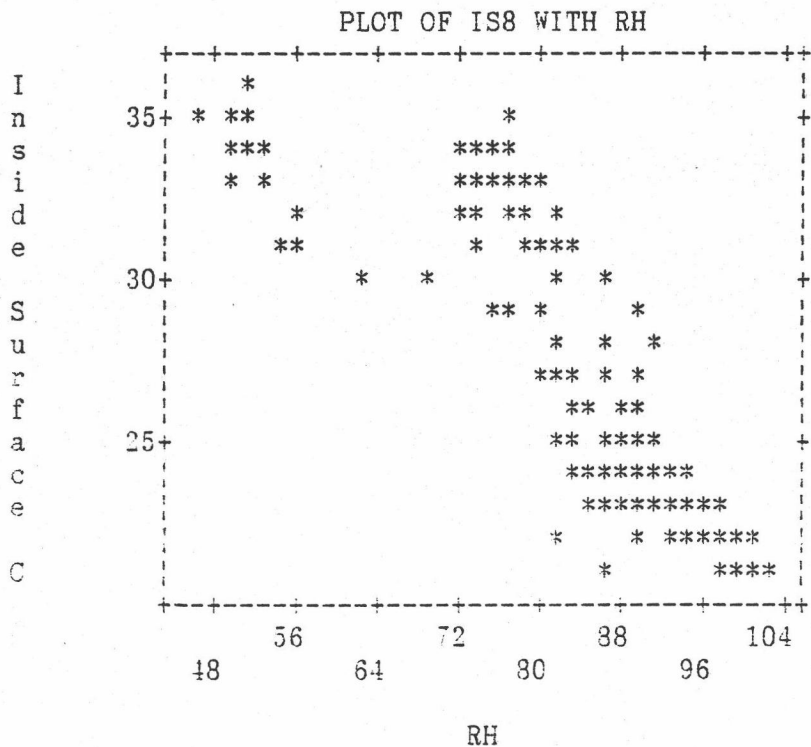
194 cases plotted.



194 cases plotted.



194 cases plotted.



194 cases plotted.



ประวัติผู้เขียน

นายกิตติพงษ์ เพชรวราภา เกิดวันที่ 5 มิถุนายน 2507 ที่โรงพยาบาลจุฬาลงกรณ์ สำเร็จการศึกษา สถาปัตยกรรมศาสตร์บัณฑิต สาขาสถาปัตยกรรมหลัก สถาบันเทคโนโลยีพระจอมเกล้า วิทยาเขตเจ้าคุณทหาร ลาดกระบัง ในปีการศึกษา 2528 ปัจจุบันทำงานในตำแหน่งผู้จัดการ บริษัทสถาปนิก เฟบรัวร์ กรุ๊ป จำกัด และเป็นสถาปนิกที่ปรึกษาบริษัท เซลล์แห่งประเทศไทยจำกัด