

Docket No. SA-509

Exhibit No. 5-E

NATIONAL TRANSPORTATION SAFETY BOARD

Washington D.C.

**Low Level Wind Shear Alert System
CLT**

This data is for CHARLOTTE INTERNATIONAL AIRPOR
for JULY 2 1994 2242Z

This data displays for each of the six LLWAS
anemometers the speed (knots) and direction (degrees)
from which the wind is blowing for the given time.
The direction is in parentheses.
The sector alarms are also displayed.

NOTE: If -9 (-99) is displayed for the speed
and direction this means the anemometer is
down for the given time.

Next is a list of the sectors, the main station,
and backup stations #1 and #2.

C	1	1	1
NE	2	2	2
SE	3	3	3
SW	4	5	5
NW	6	6	6

** AA means an alarm **
** XX means no alarm **

	ATC CUST	STATION	STATION	STATION	STATION	STATION	STATION	SECTOR	SECTOR	SECTOR	SECTOR	SECTOR
		# 1	# 2	# 3	# 4	# 5	# 6	C	NE	SE	SW	NW
22:15:17	0	7 (150)	5 (188)	2 (153)	5 (164)	4 (141)	9 (175)	XX	XX	XX	XX	XX
22:15:27	0	8 (153)	4 (189)	2 (161)	5 (153)	5 (153)	8 (184)	XX	XX	XX	XX	XX
22:15:37	0	8 (145)	3 (191)	4 (158)	5 (150)	5 (150)	9 (184)	XX	XX	XX	XX	XX
22:15:47	0	10 (146)	5 (187)	6 (125)	5 (164)	7 (150)	7 (174)	XX	XX	XX	XX	XX
22:15:57	0	11 (147)	6 (192)	5 (135)	6 (165)	7 (150)	6 (173)	XX	XX	XX	XX	XX
22:16: 7	0	12 (144)	6 (186)	5 (123)	7 (135)	7 (146)	6 (165)	XX	XX	XX	XX	XX
22:16:17	0	11 (142)	6 (186)	5 (140)	5 (146)	6 (139)	6 (161)	XX	XX	XX	XX	XX
22:16:27	0	10 (146)	5 (171)	6 (135)	4 (149)	7 (135)	6 (167)	XX	XX	XX	XX	XX
22:16:37	0	9 (143)	4 (158)	7 (158)	2 (146)	7 (131)	5 (172)	XX	XX	XX	XX	XX
22:16:47	0	8 (151)	3 (153)	6 (147)	5 (135)	7 (143)	5 (171)	XX	XX	XX	XX	XX
22:16:57	0	10 (148)	2 (146)	4 (128)	6 (144)	6 (144)	5 (150)	XX	XX	XX	XX	XX
22:17: 7	0	11 (147)	4 (158)	5 (123)	5 (150)	6 (144)	7 (150)	XX	XX	XX	XX	XX
22:17:17	0	12 (144)	3 (191)	4 (141)	5 (156)	7 (150)	6 (167)	XX	XX	XX	XX	XX
22:17:27	0	11 (142)	4 (189)	4 (149)	5 (150)	8 (142)	7 (156)	XX	XX	XX	XX	XX
22:17:37	0	11 (140)	3 (180)	2 (146)	6 (153)	8 (127)	5 (156)	XX	XX	XX	XX	XX
22:17:47	0	10 (143)	2 (161)	5 (164)	7 (156)	7 (113)	5 (146)	XX	XX	XX	XX	XX
22:17:57	0	11 (151)	3 (168)	5 (180)	4 (161)	7 (126)	6 (167)	XX	XX	XX	XX	XX
22:18: 7	0	11 (139)	4 (161)	4 (135)	4 (161)	7 (135)	7 (168)	XX	XX	XX	XX	XX
22:18:17	0	10 (146)	4 (161)	5 (164)	5 (150)	6 (139)	6 (180)	XX	XX	XX	XX	XX
22:18:27	0	10 (146)	3 (153)	5 (140)	4 (158)	5 (150)	4 (161)	XX	XX	XX	XX	XX
22:18:37	0	9 (153)	3 (135)	6 (125)	3 (143)	5 (153)	4 (128)	XX	XX	XX	XX	XX
22:18:47	0	11 (147)	3 (126)	8 (149)	3 (153)	4 (161)	4 (170)	XX	XX	XX	XX	XX
22:18:57	0	13 (143)	2 (123)	8 (127)	5 (171)	4 (158)	4 (170)	XX	XX	XX	XX	XX
22:19: 7	0	11 (140)	3 (168)	9 (143)	5 (171)	4 (149)	4 (158)	XX	XX	XX	XX	XX
22:19:17	0	10 (132)	5 (164)	7 (146)	4 (189)	3 (153)	5 (146)	XX	XX	XX	XX	XX
22:19:27	0	10 (137)	5 (164)	6 (135)	4 (189)	4 (158)	6 (173)	XX	XX	XX	XX	XX
22:19:37	0	10 (140)	6 (161)	5 (146)	6 (194)	4 (158)	4 (189)	XX	XX	XX	XX	XX

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22:19:47	0	11	(135)	7	(135)	4	(135)	8	(206)	4	(149)	4	(189)	XX	XX	XX	XX	XX	XX
22:19:57	0	12	(137)	6	(135)	4	(153)	8	(209)	3	(135)	4	(189)	XX	XX	XX	XX	XX	XX
22:20:7	0	11	(135)	3	(116)	5	(187)	10	(199)	4	(141)	4	(153)	XX	XX	XX	XX	XX	XX
22:20:17	0	11	(147)	3	(104)	5	(156)	11	(183)	5	(135)	2	(153)	XX	XX	XX	XX	XX	XX
22:20:27	0	13	(143)	5	(98)	4	(161)	9	(171)	5	(152)	2	(161)	XX	XX	XX	XX	XX	XX
22:20:37	0	13	(137)	4	(99)	5	(153)	7	(174)	4	(161)	4	(149)	XX	XX	XX	XX	XX	XX
22:20:47	0	12	(139)	4	(120)	4	(123)	5	(185)	4	(170)	4	(158)	XX	XX	XX	XX	XX	XX
22:20:57	0	11	(146)	3	(143)	6	(161)	4	(189)	3	(168)	3	(168)	XX	XX	XX	XX	XX	XX
22:21:7	0	12	(144)	4	(161)	5	(155)	4	(189)	4	(170)	4	(158)	XX	XX	XX	XX	XX	XX
22:21:17	0	9	(143)	5	(144)	8	(125)	7	(185)	4	(161)	4	(161)	XX	XX	XX	XX	XX	XX
22:21:27	0	9	(141)	5	(156)	6	(125)	4	(185)	4	(158)	4	(158)	XX	XX	XX	XX	XX	XX
22:21:37	0	11	(140)	5	(116)	5	(143)	5	(187)	3	(168)	3	(135)	XX	XX	XX	XX	XX	XX
22:21:47	0	10	(148)	6	(125)	8	(155)	4	(189)	4	(158)	2	(146)	XX	XX	XX	XX	XX	XX
22:21:57	0	10	(140)	6	(130)	7	(159)	3	(191)	5	(164)	4	(158)	XX	XX	XX	XX	XX	XX
22:22:17	0	10	(140)	4	(149)	6	(165)	5	(171)	5	(146)	5	(171)	XX	XX	XX	XX	XX	XX
22:22:27	0	9	(149)	5	(146)	5	(183)	5	(171)	6	(167)	5	(156)	XX	XX	XX	XX	XX	XX
22:22:37	0	8	(145)	7	(135)	5	(156)	5	(187)	6	(167)	5	(156)	XX	XX	XX	XX	XX	XX
22:22:47	0	8	(145)	5	(140)	5	(140)	7	(163)	9	(162)	4	(180)	XX	XX	XX	XX	XX	XX
22:22:57	0	9	(151)	7	(150)	5	(188)	6	(144)	11	(153)	3	(153)	XX	XX	XX	XX	XX	XX
22:23:7	0	11	(161)	5	(150)	2	(198)	5	(140)	11	(153)	3	(165)	XX	XX	XX	XX	XX	XX
22:23:17	0	9	(143)	5	(146)	2	(146)	5	(146)	12	(144)	6	(167)	XX	XX	XX	XX	XX	XX
22:23:27	0	9	(141)	5	(135)	4	(158)	7	(156)	14	(136)	7	(156)	XX	XX	XX	XX	XX	XX
22:23:37	0	9	(142)	4	(120)	5	(150)	6	(167)	10	(120)	5	(161)	XX	XX	XX	XX	XX	XX
22:23:47	0	8	(157)	3	(126)	5	(140)	7	(174)	12	(140)	6	(161)	XX	XX	XX	XX	XX	XX
22:23:57	0	9	(149)	5	(146)	5	(153)	8	(175)	9	(141)	5	(153)	XX	XX	XX	XX	XX	XX
22:24:17	0	10	(155)	5	(146)	5	(146)	7	(174)	11	(145)	4	(161)	XX	XX	XX	XX	XX	XX
22:24:27	0	9	(161)	5	(135)	4	(159)	6	(186)	10	(135)	4	(170)	XX	XX	XX	XX	XX	XX
22:24:37	0	10	(171)	4	(141)	4	(152)	7	(162)	10	(148)	5	(164)	XX	XX	XX	XX	XX	XX
22:24:47	0	11	(172)	4	(159)	8	(149)	9	(167)	9	(162)	5	(146)	XX	XX	XX	XX	XX	XX
22:24:57	0	12	(180)	2	(146)	14	(153)	8	(165)	8	(159)	3	(126)	XX	XX	XX	XX	XX	XX
22:25:17	0	13	(173)	2	(116)	12	(170)	5	(171)	6	(159)	3	(135)	XX	XX	XX	XX	XX	XX
22:25:27	0	12	(180)	4	(135)	14	(157)	6	(185)	4	(158)	4	(158)	XX	XX	XX	XX	XX	XX
22:25:37	0	12	(176)	4	(135)	9	(135)	7	(156)	5	(158)	5	(195)	XX	XX	XX	XX	XX	XX
22:25:47	0	11	(172)	4	(135)	7	(146)	9	(157)	4	(153)	6	(167)	XX	XX	XX	XX	XX	XX
22:25:57	0	12	(180)	4	(135)	6	(139)	8	(160)	5	(156)	5	(156)	XX	XX	XX	XX	XX	XX
22:26:17	0	11	(180)	8	(142)	4	(161)	7	(180)	5	(156)	7	(158)	XX	XX	XX	XX	XX	XX
22:26:27	0	11	(180)	8	(142)	5	(140)	5	(187)	6	(147)	8	(149)	XX	XX	XX	XX	XX	XX
22:26:37	0	11	(180)	8	(142)	5	(140)	5	(187)	6	(147)	8	(149)	XX	XX	XX	XX	XX	XX
22:26:47	0	11	(180)	8	(142)	5	(140)	5	(187)	6	(147)	8	(149)	XX	XX	XX	XX	XX	XX
22:26:57	0	12	(157)	6	(146)	7	(143)	5	(198)	9	(138)	7	(158)	XX	XX	XX	XX	XX	XX
22:27:7	0	13	(159)	6	(153)	3	(194)	3	(180)	10	(151)	6	(161)	XX	XX	XX	XX	XX	XX
22:27:17	0	12	(159)	6	(144)	4	(149)	4	(170)	8	(164)	7	(168)	XX	XX	XX	XX	XX	XX
22:27:27	0	10	(156)	6	(144)	6	(159)	6	(167)	6	(164)	6	(167)	XX	XX	XX	XX	XX	XX
22:27:37	0	10	(156)	6	(144)	6	(159)	6	(167)	6	(164)	6	(167)	XX	XX	XX	XX	XX	XX
22:27:47	0	8	(164)	7	(146)	8	(161)	8	(173)	5	(150)	7	(174)	XX	XX	XX	XX	XX	XX
22:27:57	0	8	(153)	8	(160)	7	(143)	5	(198)	9	(138)	6	(161)	XX	XX	XX	XX	XX	XX
22:28:7	0	12	(159)	10	(155)	6	(139)	11	(151)	11	(151)	7	(174)	XX	XX	XX	XX	XX	XX
22:28:17	0	12	(159)	10	(155)	6	(139)	11	(151)	11	(151)	7	(174)	XX	XX	XX	XX	XX	XX
22:28:27	0	12	(159)	10	(155)	6	(139)	11	(151)	11	(151)	7	(174)	XX	XX	XX	XX	XX	XX
22:28:37	0	12	(159)	10	(155)	6	(139)	11	(151)	11	(151)	7	(174)	XX	XX	XX	XX	XX	XX
22:28:47	0	12	(159)	10	(155)	6	(139)	11	(151)	11	(151)	7	(174)	XX	XX	XX	XX	XX	XX
22:28:57	0	12	(159)	10	(155)	6	(139)	11	(151)	11	(151)	7	(174)	XX	XX	XX	XX	XX	XX
22:29:7	0	14	(171)	7	(153)	6	(153)	8	(156)	9	(149)	7	(168)	XX	XX	XX	XX	XX	XX
22:29:17	0	14	(169)	5	(146)	6	(135)	6	(159)	9	(149)	8	(155)	XX	XX	XX	XX	XX	XX
22:29:27	0	14	(167)	5	(135)	6	(147)	4	(170)	10	(137)	8	(169)	XX	XX	XX	XX	XX	XX
22:29:37	0	11	(162)	3	(141)	4	(144)	4	(170)	9	(138)	8	(155)	XX	XX	XX	XX	XX	XX
22:29:47	0	11	(151)	4	(126)	7	(141)	4	(170)	7	(159)	8	(155)	XX	XX	XX	XX	XX	XX
22:29:57	0	13	(141)	2	(146)	6	(165)	6	(165)	6	(161)	11	(159)	XX	XX	XX	XX	XX	XX
22:29:7	0	14	(150)	4	(161)	7	(159)	7	(163)	5	(156)	10	(156)	XX	XX	XX	XX	XX	XX
22:29:17	0	12	(166)	5	(153)	5	(150)	7	(163)	3	(165)	8	(145)	XX	XX	XX	XX	XX	XX
22:29:27	0	10	(160)	5	(153)	5	(153)	5	(160)	2	(153)	6	(139)	XX	XX	XX	XX	XX	XX
22:29:37	0	11	(161)	5	(171)	4	(135)	3	(191)	4	(158)	6	(161)	XX	XX	XX	XX	XX	XX

22:29:47	0	12 (157)	4 (189)	5 (146)	4 (180)	3 (153)	9 (162)	XX	XX	XX	XX	XX
22:29:57	0	13 (165)	6 (186)	5 (129)	5 (164)	4 (210)	9 (158)	XX	XX	XX	XX	XX
22:30: 7	0	11 (165)	7 (185)	5 (146)	5 (188)	2 (198)	10 (167)	XX	XX	XX	XX	XX
22:30:17	0	9 (162)	9 (184)	4 (141)	5 (171)	3 (180)	8 (164)	XX	XX	XX	XX	XX
22:30:27	0	10 (164)	9 (184)	3 (153)	6 (153)	2 (161)	9 (167)	XX	XX	XX	XX	XX
22:30:37	0	10 (164)	8 (184)	2 (146)	8 (155)	2 (153)	10 (176)	XX	XX	XX	XX	XX
22:30:47	0	9 (158)	7 (185)	4 (149)	8 (142)	2 (206)	9 (175)	XX	XX	XX	XX	XX
22:30:57	0	9 (171)	7 (185)	7 (156)	7 (140)	1 (135)	10 (171)	XX	XX	XX	XX	XX
22:31: 7	0	8 (180)	7 (185)	8 (151)	6 (153)	2 (180)	12 (173)	XX	XX	XX	XX	XX
22:31:17	0	7 (174)	7 (174)	7 (123)	9 (161)	1 (185)	12 (169)	XX	XX	XX	XX	XX
22:31:27	0	9 (180)	9 (184)	6 (104)	10 (165)	5 (146)	9 (175)	XX	XX	XX	XX	XX
22:31:37	0	10 (165)	10 (176)	5 (140)	9 (158)	6 (130)	11 (180)	XX	XX	XX	XX	XX
22:31:47	0	12 (160)	11 (183)	6 (161)	8 (160)	7 (143)	14 (196)	XX	XX	XX	XX	XX
22:31:57	0	13 (152)	10 (192)	6 (167)	6 (150)	5 (140)	12 (193)	XX	XX	XX	XX	XX
22:32: 7	0	13 (158)	10 (187)	5 (150)	7 (143)	4 (135)	10 (176)	XX	XX	XX	XX	XX
22:32:17	0	10 (160)	9 (184)	3 (135)	12 (146)	4 (158)	9 (184)	XX	XX	XX	XX	XX
22:32:27	0	10 (160)	8 (153)	2 (135)	10 (146)	3 (153)	8 (180)	XX	XX	XX	XX	XX
22:32:37	0	10 (146)	7 (158)	6 (139)	8 (153)	3 (180)	9 (184)	XX	XX	XX	XX	XX
22:32:47	0	12 (149)	8 (153)	3 (168)	8 (170)	6 (165)	13 (182)	XX	XX	XX	XX	XX
22:32:57	0	11 (145)	9 (171)	5 (156)	9 (147)	8 (170)	15 (182)	XX	XX	XX	XX	XX
22:33: 7	0	10 (155)	10 (171)	5 (129)	9 (153)	10 (176)	15 (182)	XX	XX	XX	XX	XX
22:33:17	0	8 (160)	9 (184)	4 (141)	11 (150)	9 (175)	13 (183)	XX	XX	XX	XX	XX
22:33:27	0	6 (130)	9 (175)	5 (146)	11 (145)	8 (160)	12 (183)	XX	XX	XX	XX	XX
22:33:37	0	7 (143)	7 (185)	10 (146)	12 (144)	6 (144)	13 (182)	XX	XX	XX	XX	XX
22:33:47	0	8 (145)	9 (184)	9 (153)	8 (155)	6 (139)	13 (186)	XX	XX	XX	XX	XX
22:33:57	0	8 (151)	9 (184)	6 (153)	8 (155)	4 (128)	9 (184)	XX	XX	XX	XX	XX
22:34: 7	0	8 (155)	9 (184)	6 (147)	8 (149)	4 (128)	11 (183)	XX	XX	XX	XX	XX
22:34:17	0	9 (161)	9 (180)	8 (138)	6 (144)	6 (144)	8 (165)	XX	XX	XX	XX	XX
22:34:27	0	10 (160)	7 (185)	7 (126)	7 (156)	9 (135)	13 (171)	XX	XX	XX	XX	XX
22:34:37	0	10 (155)	7 (185)	5 (129)	9 (158)	9 (147)	10 (183)	XX	XX	XX	XX	XX
22:34:47	0	9 (147)	6 (165)	5 (153)	9 (157)	9 (147)	11 (172)	XX	XX	XX	XX	XX
22:34:57	0	9 (138)	6 (186)	4 (141)	8 (155)	8 (149)	12 (169)	XX	XX	XX	XX	XX
22:35: 7	0	11 (132)	6 (186)	8 (149)	7 (143)	8 (155)	10 (176)	XX	XX	XX	XX	XX
22:35:17	0	11 (137)	5 (164)	8 (142)	6 (159)	7 (138)	9 (158)	XX	XX	XX	XX	XX
22:35:27	0	9 (143)	6 (135)	9 (128)	6 (153)	6 (144)	7 (180)	XX	XX	XX	XX	XX
22:35:37	0	10 (155)	4 (128)	8 (142)	9 (131)	6 (153)	5 (164)	XX	XX	XX	XX	XX
22:35:47	0	14 (152)	5 (135)	8 (145)	7 (138)	6 (153)	7 (158)	XX	XX	XX	XX	XX
22:35:57	0	16 (152)	5 (164)	8 (142)	8 (145)	5 (156)	8 (155)	XX	XX	XX	XX	XX
22:36: 7	0	17 (148)	7 (158)	7 (146)	10 (137)	3 (143)	8 (142)	XX	XX	XX	XX	XX
22:36:17	0	14 (148)	5 (156)	4 (128)	9 (149)	3 (135)	5 (129)	XX	XX	XX	XX	XX
22:36:27	0	15 (147)	5 (180)	6 (144)	10 (145)	4 (149)	6 (167)	XX	XX	XX	XX	XX
22:36:37	0	14 (154)	5 (172)	6 (135)	10 (135)	6 (147)	7 (174)	XX	XX	XX	XX	XX
22:36:47	0	14 (150)	5 (164)	7 (123)	9 (141)	6 (144)	8 (170)	XX	XX	XX	XX	XX
22:36:57	0	13 (147)	4 (161)	7 (135)	9 (147)	7 (146)	9 (184)	XX	XX	XX	XX	XX
22:37: 7	0	14 (144)	5 (172)	5 (140)	7 (146)	6 (130)	9 (184)	XX	XX	XX	XX	XX
22:37:17	0	17 (146)	6 (167)	7 (143)	6 (139)	6 (147)	7 (185)	XX	XX	XX	XX	XX
22:37:27	0	16 (138)	6 (159)	6 (144)	5 (140)	6 (153)	5 (187)	XX	XX	XX	XX	XX
22:37:37	0	16 (123)	6 (159)	5 (135)	2 (146)	6 (144)	6 (186)	XX	XX	XX	XX	XX
22:37:47	0	16 (115)	4 (189)	4 (128)	7 (143)	6 (147)	7 (174)	XX	XX	XX	XX	XX
22:37:57	0	16 (117)	6 (173)	5 (129)	9 (135)	9 (147)	7 (174)	XX	XX	XX	XX	XX
22:38: 7	0	16 (109)	9 (184)	5 (129)	9 (143)	10 (151)	7 (185)	XX	XX	XX	XX	XX
22:38:17	0	16 (99)	10 (183)	5 (146)	6 (139)	9 (157)	8 (184)	XX	XX	XX	XX	XX
22:38:27	0	14 (95)	10 (171)	5 (129)	6 (130)	7 (135)	7 (185)	XX	XX	XX	XX	XX
22:38:37	0	16 (99)	10 (183)	5 (119)	9 (147)	7 (138)	7 (163)	XX	XX	XX	XX	XX
22:38:47	0	16 (102)	11 (183)	7 (113)	9 (135)	8 (145)	5 (146)	XX	XX	XX	XX	XX
22:38:57	0	16 (97)	10 (171)	7 (113)	9 (131)	7 (145)	7 (188)	XX	XX	XX	XX	XX
22:39: 7	0	16 (102)	8 (164)	8 (99)	9 (141)	5 (156)	5 (164)	XX	XX	XX	XX	XX
22:39:17	0	15 (102)	9 (162)	7 (106)	9 (128)	7 (146)	6 (155)	XX	XX	XX	XX	XX
22:39:27	0	16 (104)	12 (166)	8 (120)	7 (131)	7 (150)	7 (185)	XX	XX	XX	XX	XX
22:39:37	0	18 (105)	10 (172)	10 (129)	9 (112)	7 (135)	9 (184)	XX	XX	XX	XX	XX

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22:39:47	0	18 (102)	10 (156)	9 (122)	8 (116)	8 (135)	11 (165)	XX	XX	XX	XX	XX
22:39:57	0	17 (105)	9 (162)	7 (123)	10 (137)	8 (127)	12 (167)	XX	XX	XX	XX	XX
22:40: 7	0	21 (103)	8 (160)	6 (116)	12 (137)	6 (147)	12 (183)	XX	XX	XX	XX	XX
22:40:17	27	24 (101)	9 (184)	6 (108)	13 (135)	6 (139)	14 (174)	XX	XX	XX	XX	XX
22:40:27	0	24 (104)	12 (170)	6 (108)	12 (128)	7 (135)	14 (171)	XX	XX	XX	XX	XX
22:40:37	0	21 (100)	14 (174)	7 (113)	11 (139)	7 (126)	12 (173)	AA	XX	XX	XX	XX
22:40:47	0	20 (97)	12 (183)	7 (111)	11 (137)	5 (129)	17 (165)	AA	XX	XX	XX	XX
22:40:57	0	21 (106)	12 (183)	6 (108)	12 (137)	7 (126)	13 (173)	AA	XX	XX	XX	XX
22:41: 7	0	21 (103)	13 (188)	8 (104)	10 (137)	6 (144)	12 (176)	AA	AA	AA	XX	XX
22:41:17	0	19 (104)	16 (189)	7 (95)	5 (150)	10 (151)	17 (177)	AA	AA	AA	XX	XX
22:41:27	0	19 (104)	17 (191)	9 (107)	4 (149)	11 (127)	20 (176)	AA	AA	AA	XX	XX
22:41:37	0	21 (106)	20 (185)	10 (104)	4 (149)	13 (143)	20 (178)	AA	AA	AA	XX	XX
22:41:47	0	22 (106)	19 (184)	10 (97)	5 (140)	13 (143)	23 (174)	AA	AA	AA	XX	XX
22:41:57	0	20 (105)	18 (182)	10 (102)	7 (135)	9 (135)	21 (176)	AA	AA	AA	XX	XX
22:42: 7	0	18 (102)	18 (182)	8 (94)	5 (116)	10 (140)	23 (181)	AA	AA	AA	XX	XX
22:42:17	0	17 (103)	15 (185)	6 (96)	5 (116)	8 (135)	20 (183)	AA	AA	AA	XX	XX
22:42:27	0	17 (103)	18 (186)	7 (90)	4 (135)	8 (124)	24 (187)	AA	AA	AA	XX	XX
22:42:37	0	18 (100)	15 (182)	9 (102)	4 (141)	8 (118)	25 (184)	AA	AA	AA	XX	XX
22:42:47	0	17 (94)	15 (174)	10 (105)	3 (126)	10 (118)	28 (174)	AA	AA	AA	XX	XX
22:42:57	0	18 (98)	15 (174)	12 (96)	3 (116)	12 (116)	34 (177)	AA	AA	AA	XX	AA
22:43: 7	0	18 (94)	16 (175)	10 (105)	5 (113)	13 (122)	34 (173)	AA	AA	AA	AA	AA
22:43:17	0	18 (92)	13 (182)	9 (112)	6 (125)	10 (132)	33 (170)	AA	AA	AA	AA	AA
22:43:27	0	15 (87)	11 (183)	7 (106)	9 (120)	7 (111)	25 (167)	AA	AA	AA	AA	AA
22:43:37	0	18 (85)	13 (188)	5 (97)	9 (122)	8 (105)	26 (164)	AA	AA	AA	AA	AA
22:43:47	0	17 (78)	14 (191)	5 (82)	6 (102)	9 (111)	19 (173)	AA	AA	AA	AA	AA
22:43:57	0	14 (78)	15 (187)	7 (95)	6 (102)	7 (123)	16 (182)	AA	AA	AA	AA	AA
22:44: 7	0	15 (87)	15 (190)	7 (101)	6 (104)	9 (126)	15 (185)	AA	AA	AA	AA	AA
22:44:17	0	15 (92)	16 (184)	7 (101)	5 (123)	8 (118)	16 (184)	AA	AA	AA	AA	AA
22:44:27	0	15 (92)	14 (185)	6 (96)	8 (127)	6 (130)	14 (185)	AA	AA	AA	AA	AA
22:44:37	0	14 (81)	13 (188)	7 (95)	6 (125)	5 (113)	12 (173)	AA	AA	XX	AA	AA
22:44:47	0	13 (83)	13 (194)	7 (95)	9 (131)	5 (113)	9 (161)	AA	AA	XX	AA	AA
22:44:57	0	13 (86)	12 (192)	7 (95)	8 (124)	6 (116)	8 (160)	AA	AA	XX	AA	AA
22:45: 7	0	12 (83)	13 (194)	5 (97)	5 (123)	6 (104)	7 (158)	AA	AA	XX	XX	AA
22:45:17	0	11 (86)	16 (214)	5 (98)	6 (102)	5 (81)	9 (149)	AA	AA	XX	XX	XX
22:45:27	0	12 (83)	11 (214)	4 (99)	8 (118)	3 (101)	8 (155)	AA	AA	XX	XX	XX
22:45:37	0	14 (81)	10 (216)	5 (98)	7 (106)	4 (80)	9 (135)	AA	AA	XX	XX	XX
22:45:47	0	13 (78)	12 (215)	5 (90)	4 (90)	8 (100)	6 (108)	AA	AA	XX	XX	XX
22:45:57	0	13 (86)	9 (221)	6 (83)	5 (82)	9 (90)	5 (129)	AA	AA	XX	XX	XX
22:46: 7	0	12 (79)	12 (218)	7 (84)	6 (75)	9 (85)	6 (125)	AA	AA	XX	XX	XX
22:46:17	0	12 (76)	12 (210)	5 (82)	5 (97)	8 (100)	5 (119)	AA	AA	XX	XX	XX
22:46:27	0	14 (78)	12 (215)	5 (82)	6 (77)	8 (94)	5 (105)	AA	AA	XX	XX	XX
22:46:37	0	13 (78)	9 (218)	8 (79)	5 (98)	9 (102)	5 (105)	AA	AA	XX	XX	XX
22:46:47	0	14 (79)	10 (208)	6 (83)	3 (90)	5 (84)	5 (116)	AA	AA	XX	XX	XX
22:46:57	0	10 (93)	10 (219)	5 (82)	2 (108)	7 (84)	5 (113)	AA	AA	XX	XX	XX
22:47: 7	0	12 (96)	13 (207)	6 (96)	2 (116)	8 (85)	8 (105)	AA	AA	XX	XX	XX
22:47:17	0	10 (86)	14 (203)	7 (95)	2 (63)	6 (122)	8 (100)	AA	AA	XX	XX	XX
22:47:27	0	14 (84)	15 (206)	7 (95)	3 (104)	8 (120)	10 (97)	AA	AA	XX	XX	XX
22:47:37	0	12 (80)	14 (206)	7 (90)	5 (97)	8 (114)	10 (93)	AA	AA	XX	XX	XX
22:47:47	0	10 (93)	13 (212)	9 (94)	6 (75)	7 (106)	8 (80)	AA	AA	XX	XX	XX
22:47:57	0	10 (82)	14 (206)	8 (105)	5 (82)	5 (113)	5 (98)	AA	AA	XX	XX	XX
22:48: 7	0	12 (83)	13 (201)	7 (95)	5 (98)	6 (102)	9 (108)	AA	AA	XX	XX	XX
22:48:17	0	12 (83)	14 (199)	5 (98)	5 (81)	5 (90)	7 (95)	AA	AA	XX	XX	XX
22:48:27	0	12 (83)	15 (201)	5 (81)	5 (97)	5 (82)	4 (111)	AA	AA	XX	XX	XX
22:48:37	0	12 (90)	14 (199)	4 (90)	7 (95)	4 (80)	1 (90)	AA	AA	XX	XX	XX
22:48:47	0	13 (92)	14 (200)	3 (90)	5 (98)	7 (84)	5 (98)	AA	AA	XX	XX	XX
22:48:57	0	13 (86)	14 (199)	5 (81)	3 (75)	7 (73)	6 (110)	AA	AA	XX	XX	XX
22:49: 7	0	12 (83)	14 (199)	7 (95)	3 (75)	4 (80)	3 (104)	AA	AA	XX	XX	XX
22:49:17	0	11 (82)	13 (198)	6 (83)	4 (71)	3 (78)	5 (113)	AA	AA	XX	XX	XX
22:49:27	0	11 (86)	12 (202)	6 (83)	4 (90)	2 (58)	8 (100)	AA	AA	XX	XX	XX
22:49:37	0	12 (93)	12 (202)	5 (60)	3 (101)	1 (90)	3 (116)	AA	AA	XX	XX	XX



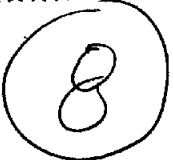
22:49:47	0	11	(86)	12	(209)	7	(84)	3	(90)	5	(74)	3	(101)	AA	AA	XX	XX	XX
22:49:57	0	10	(93)	13	(207)	5	(97)	3	(101)	9	(90)	6	(108)	AA	AA	XX	XX	XX
22:50:7	0	11	(93)	13	(207)	5	(97)	3	(101)	9	(90)	6	(108)	AA	AA	XX	XX	XX
22:50:17	0	11	(97)	13	(207)	5	(97)	3	(101)	9	(90)	6	(108)	AA	AA	XX	XX	XX
22:50:27	0	10	(93)	8	(210)	4	(99)	4	(71)	11	(90)	12	(100)	AA	AA	XX	XX	XX
22:50:37	0	9	(94)	7	(216)	4	(99)	4	(51)	9	(102)	6	(110)	AA	AA	XX	XX	XX
22:50:47	0	9	(90)	9	(218)	4	(99)	4	(59)	7	(123)	4	(128)	AA	AA	XX	XX	XX
22:50:57	0	10	(86)	9	(212)	5	(98)	4	(59)	5	(123)	5	(113)	AA	AA	XX	XX	XX
22:51:7	0	10	(86)	9	(221)	5	(97)	4	(90)	4	(111)	6	(125)	AA	AA	XX	XX	XX
22:51:17	0	9	(85)	8	(210)	5	(98)	4	(99)	5	(81)	9	(98)	AA	AA	XX	XX	XX
22:51:27	0	10	(81)	5	(200)	5	(98)	5	(82)	7	(105)	7	(119)	AA	AA	XX	XX	XX
22:51:37	0	10	(81)	5	(219)	5	(98)	6	(69)	7	(119)	4	(120)	AA	AA	XX	XX	XX
22:51:47	0	10	(86)	6	(212)	4	(99)	5	(81)	6	(104)	3	(101)	AA	AA	XX	XX	XX
22:51:57	0	7	(94)	5	(213)	3	(101)	4	(75)	6	(75)	3	(116)	AA	AA	XX	XX	XX
22:52:7	0	8	(90)	4	(210)	4	(99)	4	(71)	6	(77)	7	(156)	XX	XX	XX	XX	XX
22:52:17	0	10	(81)	5	(203)	3	(104)	3	(63)	6	(83)	6	(125)	XX	XX	XX	XX	XX
22:52:27	0	11	(86)	7	(196)	3	(101)	3	(63)	5	(63)	7	(131)	XX	XX	XX	XX	XX
22:52:37	0	10	(96)	7	(196)	3	(101)	3	(63)	3	(116)	5	(129)	XX	XX	XX	XX	XX
22:52:47	0	9	(90)	6	(206)	4	(99)	4	(99)	4	(78)	5	(127)	XX	XX	XX	XX	XX
22:52:57	0	8	(90)	7	(209)	4	(99)	3	(78)	7	(78)	8	(127)	XX	XX	XX	XX	XX
22:53:7	0	10	(98)	7	(203)	4	(90)	4	(99)	7	(95)	6	(139)	XX	XX	XX	XX	XX
22:53:17	0	10	(96)	6	(194)	3	(104)	3	(78)	5	(97)	5	(126)	XX	XX	XX	XX	XX
22:53:27	0	10	(88)	5	(189)	3	(108)	4	(99)	6	(102)	8	(114)	XX	XX	XX	XX	XX
22:53:37	0	9	(94)	4	(189)	2	(108)	4	(99)	5	(113)	9	(114)	XX	XX	XX	XX	XX
22:53:47	0	7	(90)	5	(197)	2	(108)	4	(108)	9	(95)	8	(112)	XX	XX	XX	XX	XX
22:53:57	0	9	(94)	6	(194)	3	(101)	4	(99)	7	(95)	6	(125)	XX	XX	XX	XX	XX
22:54:7	0	8	(94)	6	(192)	4	(99)	3	(104)	8	(77)	5	(146)	XX	XX	XX	XX	XX
22:54:17	0	9	(90)	5	(189)	4	(99)	2	(90)	6	(83)	6	(144)	XX	XX	XX	XX	XX
22:54:27	0	10	(93)	4	(189)	4	(99)	2	(90)	6	(83)	5	(147)	XX	XX	XX	XX	XX
22:54:37	0	9	(90)	4	(189)	4	(99)	4	(90)	9	(85)	3	(143)	XX	XX	XX	XX	XX
22:54:47	0	9	(85)	3	(169)	3	(104)	4	(99)	9	(85)	5	(140)	XX	XX	XX	XX	XX
22:54:57	0	9	(90)	3	(169)	3	(104)	4	(99)	8	(85)	7	(147)	XX	XX	XX	XX	XX
22:55:7	0	9	(90)	4	(159)	4	(99)	4	(80)	7	(84)	6	(147)	XX	XX	XX	XX	XX
22:55:17	0	9	(90)	4	(159)	3	(108)	4	(90)	9	(85)	5	(146)	XX	XX	XX	XX	XX
22:55:27	0	8	(99)	6	(144)	3	(78)	4	(99)	7	(90)	5	(119)	XX	XX	XX	XX	XX
22:55:37	0	8	(100)	5	(150)	4	(80)	5	(116)	5	(90)	4	(135)	XX	XX	XX	XX	XX
22:55:47	0	7	(95)	6	(144)	4	(80)	5	(105)	6	(96)	2	(141)	XX	XX	XX	XX	XX
22:55:57	0	7	(90)	4	(161)	2	(75)	4	(99)	6	(90)	5	(140)	XX	XX	XX	XX	XX
22:56:7	0	7	(90)	5	(153)	2	(63)	5	(105)	5	(81)	5	(116)	XX	XX	XX	XX	XX
22:56:17	0	9	(85)	4	(158)	3	(63)	4	(99)	4	(99)	4	(141)	XX	XX	XX	XX	XX
22:56:27	0	7	(90)	5	(146)	3	(78)	3	(104)	4	(111)	4	(135)	XX	XX	XX	XX	XX
22:56:37	0	7	(84)	6	(153)	3	(75)	3	(63)	3	(104)	6	(135)	XX	XX	XX	XX	XX
22:56:47	0	7	(84)	7	(150)	3	(75)	3	(45)	4	(75)	4	(135)	XX	XX	XX	XX	XX
22:56:57	0	8	(75)	6	(147)	2	(71)	2	(45)	6	(97)	5	(156)	XX	XX	XX	XX	XX
22:57:7	0	9	(85)	5	(156)	2	(71)	1	(45)	5	(90)	5	(146)	XX	XX	XX	XX	XX
22:57:17	0	8	(85)	6	(147)	2	(71)	1	(90)	6	(90)	4	(141)	XX	XX	XX	XX	XX
22:57:27	0	7	(84)	7	(135)	2	(63)	2	(90)	5	(82)	4	(141)	XX	XX	XX	XX	XX
22:57:37	0	7	(84)	7	(143)	2	(71)	3	(104)	5	(98)	4	(149)	XX	XX	XX	XX	XX
22:57:47	0	7	(84)	5	(156)	2	(71)	3	(101)	4	(99)	5	(153)	XX	XX	XX	XX	XX
22:57:57	0	7	(90)	4	(159)	3	(75)	4	(111)	3	(101)	4	(158)	XX	XX	XX	XX	XX
22:58:7	0	6	(90)	4	(141)	3	(75)	3	(101)	5	(90)	5	(150)	XX	XX	XX	XX	XX
22:58:17	0	6	(90)	4	(135)	2	(71)	3	(104)	7	(90)	4	(135)	XX	XX	XX	XX	XX
22:58:27	0	6	(90)	4	(141)	2	(63)	4	(99)	5	(113)	5	(116)	XX	XX	XX	XX	XX
22:58:37	0	10	(81)	4	(140)	2	(71)	5	(97)	6	(108)	5	(129)	XX	XX	XX	XX	XX
22:58:47	0	9	(85)	4	(149)	2	(71)	5	(97)	7	(101)	5	(129)	XX	XX	XX	XX	XX
22:58:57	0	7	(84)	4	(146)	2	(71)	5	(98)	7	(101)	5	(135)	XX	XX	XX	XX	XX
22:59:7	0	8	(79)	5	(146)	2	(71)	4	(99)	4	(90)	5	(140)	XX	XX	XX	XX	XX
22:59:17	0	7	(84)	5	(135)	2	(63)	5	(116)	4	(80)	5	(140)	XX	XX	XX	XX	XX
22:59:27	0	7	(84)	5	(140)	2	(71)	4	(120)	5	(82)	5	(116)	XX	XX	XX	XX	XX
22:59:37	0	8	(80)	5	(146)	3	(63)	3	(116)	5	(90)	4	(108)	XX	XX	XX	XX	XX

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22:59:47	0	8 (85)	5 (153)	3 (75)	2 (108)	5 (82)	4 (135)	XX	XX	XX	XX	XX
22:59:57	0	9 (85)	5 (153)	2 (71)	2 (63)	6 (96)	5 (153)	XX	XX	XX	XX	XX
23: 0: 7	0	9 (90)	4 (141)	2 (71)	2 (63)	5 (97)	3 (126)	XX	XX	XX	XX	XX
23: 0:17	0	9 (85)	4 (149)	2 (71)	1 (45)	4 (108)	4 (128)	XX	XX	XX	XX	XX
23: 0:27	0	9 (85)	5 (153)	2 (63)	2 (63)	3 (90)	5 (129)	XX	XX	XX	XX	XX
23: 0:37	0	9 (85)	4 (141)	2 (63)	2 (116)	3 (90)	6 (116)	XX	XX	XX	XX	XX
23: 0:47	0	9 (85)	5 (153)	2 (63)	2 (116)	5 (81)	5 (135)	XX	XX	XX	XX	XX
23: 0:57	0	9 (85)	4 (158)	2 (56)	2 (108)	4 (90)	3 (153)	XX	XX	XX	XX	XX
23: 1: 7	0	8 (85)	5 (150)	2 (63)	2 (63)	5 (81)	2 (153)	XX	XX	XX	XX	XX
23: 1:17	0	8 (85)	7 (146)	2 (63)	2 (45)	5 (90)	2 (146)	XX	XX	XX	XX	XX
23: 1:27	0	7 (101)	6 (147)	2 (63)	2 (45)	5 (98)	3 (143)	XX	XX	XX	XX	XX
23: 1:37	0	7 (90)	6 (159)	2 (63)	2 (63)	5 (97)	3 (126)	XX	XX	XX	XX	XX
23: 1:47	0	7 (90)	7 (156)	2 (63)	1 (90)	6 (96)	3 (104)	XX	XX	XX	XX	XX
23: 1:57	0	7 (90)	6 (144)	1 (90)	2 (116)	7 (95)	2 (135)	XX	XX	XX	XX	XX
23: 2: 7	0	6 (102)	5 (150)	1 (90)	2 (116)	6 (83)	3 (116)	XX	XX	XX	XX	XX
23: 2:17	0	6 (90)	4 (161)	2 (63)	1 (135)	6 (83)	3 (116)	XX	XX	XX	XX	XX
23: 2:27	0	6 (104)	5 (153)	2 (63)	1 (180)	7 (90)	4 (141)	XX	XX	XX	XX	XX
23: 2:37	0	6 (102)	6 (159)	2 (63)	1 (45)	7 (84)	4 (141)	XX	XX	XX	XX	XX
23: 2:47	0	8 (94)	6 (161)	2 (63)	2 (45)	5 (90)	3 (135)	XX	XX	XX	XX	XX
23: 2:57	0	8 (85)	5 (153)	2 (63)	2 (56)	5 (90)	2 (135)	XX	XX	XX	XX	XX
23: 3: 7	0	8 (90)	5 (146)	2 (63)	3 (75)	4 (90)	5 (146)	XX	XX	XX	XX	XX
23: 3:17	0	7 (101)	6 (159)	2 (45)	3 (63)	4 (80)	6 (108)	XX	XX	XX	XX	XX
23: 3:27	0	7 (101)	6 (159)	2 (56)	3 (75)	4 (90)	6 (125)	XX	XX	XX	XX	XX
23: 3:37	0	8 (99)	6 (159)	2 (56)	2 (71)	3 (101)	4 (149)	XX	XX	XX	XX	XX
23: 3:47	0	8 (80)	5 (150)	2 (56)	3 (75)	3 (101)	5 (123)	XX	XX	XX	XX	XX
23: 3:57	0	7 (84)	5 (153)	2 (56)	4 (68)	4 (80)	3 (143)	XX	XX	XX	XX	XX
23: 4: 7	0	6 (104)	6 (159)	2 (56)	3 (90)	2 (90)	2 (153)	XX	XX	XX	XX	XX
23: 4:17	0	6 (102)	4 (161)	2 (56)	3 (90)	2 (90)	4 (120)	XX	XX	XX	XX	XX
23: 4:27	0	5 (97)	7 (156)	2 (56)	2 (63)	2 (90)	6 (125)	XX	XX	XX	XX	XX
23: 4:37	0	5 (97)	7 (156)	2 (56)	2 (63)	3 (101)	4 (141)	XX	XX	XX	XX	XX
23: 4:47	0	7 (95)	5 (146)	2 (56)	2 (63)	4 (111)	3 (135)	XX	XX	XX	XX	XX
23: 4:57	0	8 (100)	5 (150)	2 (56)	2 (63)	4 (90)	3 (126)	XX	XX	XX	XX	XX
23: 5: 7	0	8 (99)	5 (150)	2 (56)	2 (63)	3 (101)	5 (135)	XX	XX	XX	XX	XX
23: 5:17	0	8 (94)	6 (139)	2 (56)	1 (90)	4 (90)	5 (135)	XX	XX	XX	XX	XX
23: 5:27	0	8 (100)	5 (150)	2 (63)	2 (116)	3 (90)	5 (123)	XX	XX	XX	XX	XX
23: 5:37	0	7 (101)	6 (135)	2 (63)	1 (135)	2 (90)	4 (120)	XX	XX	XX	XX	XX
23: 5:47	0	5 (90)	6 (130)	2 (63)	1 (180)	3 (90)	2 (123)	XX	XX	XX	XX	XX
23: 5:57	0	5 (90)	8 (135)	2 (71)	1 (180)	5 (98)	3 (135)	XX	XX	XX	XX	XX
23: 6: 7	0	4 (108)	7 (138)	2 (56)	0 (360)	4 (99)	6 (125)	XX	XX	XX	XX	XX
23: 6:17	0	4 (108)	6 (130)	3 (63)	0 (360)	4 (71)	5 (113)	XX	XX	XX	XX	XX
23: 6:27	0	6 (104)	6 (139)	3 (75)	0 (360)	6 (75)	4 (128)	XX	XX	XX	XX	XX
23: 6:37	0	5 (90)	5 (140)	2 (71)	2 (116)	4 (80)	4 (128)	XX	XX	XX	XX	XX
23: 6:47	0	5 (105)	6 (135)	2 (71)	3 (104)	4 (80)	5 (135)	XX	XX	XX	XX	XX
23: 6:57	0	4 (108)	5 (140)	2 (71)	3 (90)	5 (98)	5 (113)	XX	XX	XX	XX	XX
23: 7: 7	0	5 (113)	5 (140)	2 (71)	2 (108)	5 (90)	3 (135)	XX	XX	XX	XX	XX
23: 7:17	0	5 (116)	4 (128)	3 (75)	2 (90)	5 (97)	4 (128)	XX	XX	XX	XX	XX
23: 7:27	0	5 (119)	4 (135)	3 (75)	2 (108)	6 (104)	5 (153)	XX	XX	XX	XX	XX
23: 7:37	0	6 (116)	4 (135)	3 (75)	2 (116)	4 (90)	4 (141)	XX	XX	XX	XX	XX
23: 7:47	0	6 (116)	4 (141)	2 (71)	1 (135)	4 (90)	4 (141)	XX	XX	XX	XX	XX
23: 7:57	0	7 (111)	5 (123)	2 (63)	0 (360)	4 (120)	3 (126)	XX	XX	XX	XX	XX
23: 8: 7	0	7 (113)	4 (128)	2 (63)	1 (180)	6 (96)	2 (135)	XX	XX	XX	XX	XX
23: 8:17	0	7 (113)	4 (135)	1 (90)	0 (360)	5 (81)	2 (146)	XX	XX	XX	XX	XX
23: 8:27	0	7 (106)	4 (135)	1 (90)	1 (180)	5 (90)	3 (135)	XX	XX	XX	XX	XX
23: 8:37	0	7 (113)	3 (126)	1 (135)	0 (360)	4 (120)	5 (140)	XX	XX	XX	XX	XX
23: 8:47	0	7 (111)	3 (135)	2 (116)	1 (180)	3 (126)	5 (140)	XX	XX	XX	XX	XX
23: 8:57	0	7 (111)	5 (135)	2 (116)	1 (270)	3 (116)	5 (135)	XX	XX	XX	XX	XX
23: 9: 7	0	6 (108)	4 (135)	2 (116)	1 (180)	3 (90)	3 (126)	XX	XX	XX	XX	XX
23: 9:17	0	6 (110)	4 (141)	2 (116)	0 (360)	4 (90)	5 (135)	XX	XX	XX	XX	XX
23: 9:27	0	6 (96)	5 (129)	2 (116)	0 (360)	3 (104)	5 (140)	XX	XX	XX	XX	XX
23: 9:37	0	5 (116)	6 (135)	2 (116)	1 (135)	4 (111)	5 (129)	XX	XX	XX	XX	XX

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23: 9:47	0	4	(108)	5	(133)	1	(135)	2	(108)	5	(105)	4	(120)	XX	XX	XX	XX	XX	XX
23: 9:57	0	5	(113)	4	(135)	1	(135)	2	(108)	5	(105)	3	(135)	XX	XX	XX	XX	XX	XX
23: 10: 7	0	6	(110)	4	(128)	2	(146)	2	(116)	5	(105)	3	(135)	XX	XX	XX	XX	XX	XX
23:10:17	0	6	(122)	4	(128)	2	(109)	1	(135)	4	(99)	2	(123)	XX	XX	XX	XX	XX	XX
23:10:27	0	6	(116)	4	(135)	3	(104)	2	(123)	3	(126)	3	(123)	XX	XX	XX	XX	XX	XX
23:10:37	0	5	(116)	5	(140)	3	(116)	4	(129)	3	(101)	3	(126)	XX	XX	XX	XX	XX	XX
23:10:47	0	5	(116)	5	(146)	4	(99)	5	(135)	3	(101)	3	(126)	XX	XX	XX	XX	XX	XX
23:10:57	0	5	(116)	4	(128)	2	(116)	3	(129)	4	(101)	3	(126)	XX	XX	XX	XX	XX	XX
23:11: 7	0	5	(116)	4	(141)	1	(135)	3	(143)	4	(108)	4	(120)	XX	XX	XX	XX	XX	XX
23:11:17	0	6	(122)	4	(141)	1	(225)	4	(158)	4	(111)	4	(141)	XX	XX	XX	XX	XX	XX
23:11:17	0	7	(119)	4	(141)	4	(158)	3	(168)	4	(111)	3	(143)	XX	XX	XX	XX	XX	XX
23:11:27	0	6	(130)	4	(135)	5	(156)	4	(161)	4	(120)	3	(143)	XX	XX	XX	XX	XX	XX
23:11:37	0	6	(135)	4	(135)	4	(156)	4	(161)	4	(108)	3	(143)	XX	XX	XX	XX	XX	XX
23:11:37	0	6	(135)	3	(135)	5	(153)	6	(167)	4	(108)	2	(146)	XX	XX	XX	XX	XX	XX
23:11:47	0	6	(135)	3	(149)	4	(149)	4	(141)	4	(111)	4	(108)	XX	XX	XX	XX	XX	XX
23:11:57	0	7	(126)	4	(149)	3	(101)	3	(104)	4	(120)	3	(135)	XX	XX	XX	XX	XX	XX
23:12: 7	0	6	(135)	4	(149)	4	(111)	2	(116)	5	(116)	3	(135)	XX	XX	XX	XX	XX	XX
23:12:17	0	6	(139)	4	(158)	4	(111)	2	(135)	5	(105)	3	(104)	XX	XX	XX	XX	XX	XX
23:12:27	0	6	(139)	4	(141)	5	(126)	4	(135)	5	(105)	3	(104)	XX	XX	XX	XX	XX	XX
23:12:37	0	6	(135)	5	(135)	5	(135)	5	(140)	5	(91)	3	(135)	XX	XX	XX	XX	XX	XX
23:12:47	0	6	(135)	3	(126)	4	(140)	5	(140)	3	(101)	3	(116)	XX	XX	XX	XX	XX	XX
23:12:57	0	6	(122)	3	(126)	2	(161)	5	(140)	3	(101)	2	(108)	XX	XX	XX	XX	XX	XX
23:13: 7	0	6	(130)	3	(126)	3	(143)	4	(141)	4	(111)	3	(108)	XX	XX	XX	XX	XX	XX
23:13:17	0	7	(119)	4	(126)	5	(153)	5	(140)	3	(126)	2	(123)	XX	XX	XX	XX	XX	XX
23:13:27	0	5	(129)	3	(135)	4	(149)	5	(135)	4	(111)	3	(135)	XX	XX	XX	XX	XX	XX
23:13:37	0	7	(126)	2	(135)	4	(149)	4	(141)	4	(111)	2	(135)	XX	XX	XX	XX	XX	XX
23:13:47	0	6	(110)	2	(153)	7	(156)	3	(141)	4	(111)	3	(126)	XX	XX	XX	XX	XX	XX
23:13:57	0	6	(130)	3	(153)	6	(144)	3	(190)	3	(104)	4	(135)	XX	XX	XX	XX	XX	XX



This data play back is for CHARLOTTE INTERNATIONAL AIRPOR

JULY 2 1994 2242Z

Speeds are in knots.

Directions are in degrees and are enclosed in parentheses. Directions are referenced in the meteorological coordinate system.

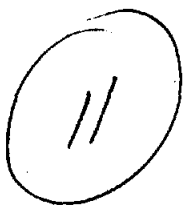
An asterisk (*) next to a speed indicates that the associated sector was in alarm status for that poll.

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7/ 2/94

	CFA	C	NE	SE	SW	NW
22:15:17	9(150)	7(150)	5(190)	0(360)	5(160)	9(180)
22:15:27	9(150)	8(150)	4(190)	0(360)	5(150)	8(190)
22:15:37	8(150)	8(150)	3(190)	4(160)	5(150)	9(180)
22:15:47	8(150)	10(150)	5(190)	6(130)	5(160)	8(180)
22:15:57	9(150)	11(150)	6(190)	5(140)	6(170)	6(170)
22:16: 7	9(150)	12(140)	6(190)	5(120)	7(140)	6(170)
22:16:17	9(150)	11(140)	6(190)	5(140)	5(150)	6(160)
22:16:27	9(140)	10(150)	5(170)	6(140)	4(150)	6(170)
22:16:37	9(150)	9(140)	4(160)	7(160)	0(360)	5(170)
22:16:47	9(150)	9(150)	3(150)	6(150)	5(140)	5(170)
22:16:57	9(150)	10(150)	0(360)	4(130)	6(140)	5(150)
22:17: 7	9(150)	11(150)	4(180)	5(120)	5(150)	7(150)
22:17:17	10(150)	12(140)	3(190)	4(140)	5(160)	6(170)
22:17:27	10(150)	11(140)	4(190)	4(150)	5(150)	7(160)
22:17:37	10(150)	11(140)	3(180)	0(360)	6(150)	5(160)
22:17:47	10(150)	10(140)	0(360)	5(160)	7(160)	5(150)
22:17:57	10(150)	12(150)	3(170)	5(180)	4(160)	6(170)
22:18: 7	11(150)	12(140)	4(160)	4(140)	4(160)	7(170)
22:18:17	10(150)	10(150)	4(160)	5(160)	5(150)	6(180)
22:18:27	10(150)	10(150)	3(150)	5(140)	4(160)	4(160)
22:18:37	10(150)	9(150)	3(140)	6(130)	3(140)	4(130)
22:18:47	10(150)	11(150)	3(130)	8(150)	3(150)	4(170)
22:18:57	11(150)	13(140)	0(360)	8(130)	5(170)	4(170)
22:19: 7	11(150)	11(140)	3(170)	9(140)	5(170)	4(160)
22:19:17	11(150)	10(130)	5(160)	7(150)	4(190)	5(150)
22:19:27	11(150)	10(140)	5(160)	6(140)	4(190)	6(170)
22:19:37	11(150)	10(140)	6(160)	5(150)	6(190)	4(190)
22:19:47	11(150)	12(140)	7(140)	4(140)	8(210)	4(190)
22:19:57	11(150)	12(140)	6(140)	4(160)	9(210)	4(160)
22:20: 7	11(150)	12(140)	3(120)	5(190)	10(200)	0(360)
22:20:17	11(150)	11(150)	3(100)	5(160)	11(180)	0(360)
22:20:27	11(140)	13(140)	5(100)	4(160)	9(170)	0(360)
22:20:37	11(140)	13(140)	4(100)	5(150)	7(170)	4(140)
22:20:47	11(140)	12(140)	4(120)	0(360)	5(200)	4(150)
22:20:57	11(140)	12(150)	3(140)	6(160)	5(190)	4(160)
22:21: 7	11(140)	12(140)	4(160)	8(160)	4(190)	3(170)
22:21:17	11(140)	9(140)	5(160)	8(160)	4(190)	4(160)
22:21:27	11(140)	9(140)	5(160)	6(130)	7(190)	4(160)
22:21:37	11(140)	11(140)	5(120)	7(140)	5(190)	3(140)
22:21:47	11(140)	10(150)	6(130)	8(160)	4(190)	0(360)
22:21:57	11(140)	10(150)	6(130)	7(160)	3(190)	4(160)
22:22: 7	11(150)	10(150)	4(150)	6(170)	5(170)	5(170)
22:22:17	11(150)	9(150)	5(150)	5(190)	5(170)	5(160)

22:22:127	11(150)	8(150)	7(140)	5(160)	5(190)	5(160)
22:22:137	10(150)	8(150)	5(140)	5(140)	7(160)	4(180)
22:22:147	10(150)	9(160)	7(150)	5(190)	6(140)	3(150)
22:22:157	10(150)	11(150)	5(150)	0(360)	5(140)	3(170)
22:23:17	9(150)	9(140)	5(150)	0(360)	5(150)	6(170)
22:23:27	9(150)	9(140)	5(140)	4(160)	7(160)	7(160)
22:23:37	9(150)	8(140)	3(130)	5(140)	7(170)	5(160)
22:23:47	9(150)	9(150)	5(150)	5(150)	8(180)	5(150)
22:23:57	9(150)	10(160)	5(150)	5(150)	7(170)	4(160)
22:24:17	9(150)	9(160)	5(140)	4(160)	6(190)	4(160)
22:24:27	9(160)	10(170)	4(160)	8(150)	7(170)	5(160)
22:24:37	9(160)	11(170)	4(160)	9(1170)	9(1170)	5(150)
22:24:47	10(160)	12(180)	0(360)	14(150)	8(170)	3(130)
22:24:57	10(160)	12(180)	0(360)	12(170)	6(170)	3(140)
22:25:17	10(160)	12(190)	4(140)	14(160)	6(170)	4(160)
22:25:27	10(170)	11(170)	4(140)	9(140)	9(160)	5(200)
22:25:37	11(170)	11(180)	8(140)	7(150)	8(160)	6(170)
22:25:47	11(170)	11(170)	8(140)	4(160)	7(150)	5(150)
22:25:57	12(170)	13(160)	7(150)	5(140)	5(190)	5(150)
22:26:17	12(170)	13(160)	6(150)	3(170)	3(190)	7(160)
22:26:27	12(170)	12(170)	6(150)	5(150)	3(170)	6(160)
22:26:37	12(170)	12(170)	6(140)	4(170)	4(170)	7(170)
22:26:47	12(170)	10(170)	6(140)	4(150)	6(170)	6(170)
22:26:57	12(170)	10(170)	6(150)	6(160)	9(170)	6(160)
22:27:17	11(170)	8(170)	7(150)	8(150)	6(170)	8(180)
22:27:27	11(170)	8(160)	10(160)	7(140)	5(190)	6(160)
22:27:37	11(170)	13(170)	10(140)	6(140)	3(180)	7(160)
22:27:47	11(170)	13(170)	9(130)	8(160)	3(180)	7(170)
22:27:57	11(170)	12(170)	10(160)	6(140)	6(160)	10(170)
22:28:17	12(170)	15(170)	5(150)	6(140)	6(160)	10(170)
22:28:27	12(170)	13(170)	5(140)	6(150)	4(170)	8(170)
22:28:37	12(170)	11(160)	4(140)	6(140)	4(170)	8(160)
22:28:47	12(170)	12(150)	0(360)	7(160)	6(170)	11(160)
22:28:57	13(160)	13(140)	4(160)	7(160)	7(160)	10(160)
22:29:17	13(160)	14(150)	4(160)	5(150)	7(160)	8(150)
22:29:27	13(160)	12(170)	5(150)	4(140)	5(180)	6(140)
22:29:37	13(160)	10(160)	5(170)	4(140)	3(190)	6(160)
22:29:47	13(160)	11(160)	4(190)	5(130)	4(180)	9(160)
22:29:57	13(160)	13(170)	4(190)	5(130)	5(160)	9(160)
22:30:17	12(160)	11(170)	8(190)	5(150)	5(190)	10(170)
22:30:27	11(160)	10(160)	9(180)	4(140)	5(170)	8(170)
22:30:37	11(160)	10(160)	8(190)	0(360)	6(150)	10(160)
22:30:47	11(160)	9(160)	8(190)	4(150)	8(140)	10(160)
22:30:57	11(160)	9(160)	8(190)	7(160)	7(140)	10(160)
22:31:17	10(170)	8(150)	7(170)	9(120)	6(150)	12(170)
22:31:27	10(170)	9(180)	9(180)	6(130)	11(170)	11(160)
22:31:37	10(170)	11(170)	10(180)	5(140)	9(160)	11(160)
22:31:47	10(170)	12(160)	12(190)	6(160)	9(160)	14(200)
22:31:57	10(170)	13(160)	10(190)	6(170)	6(150)	12(190)
22:32:17	10(170)	13(150)	10(190)	5(150)	7(140)	10(180)
22:32:17	10(170)	10(150)	9(180)	3(140)	12(150)	9(180)



22:32:27	11(170)	10(160)	8(150)	0(360)	10(150)	8(180)
22:32:37	11(170)	10(150)	7(160)	6(140)	8(150)	10(190)
22:32:47	11(170)	12(150)	8(150)	3(170)	8(170)	14(180)
22:32:57	11(160)	11(150)	9(1170)	5(160)	9(150)	15(180)
22:33:7	11(160)	10(160)	10(1170)	5(130)	9(150)	13(190)
22:33:17	11(160)	8(160)	9(1180)	4(140)	11(150)	12(190)
22:33:27	10(160)	6(190)	9(180)	10(150)	11(150)	14(190)
22:33:37	10(160)	7(140)	7(190)	9(150)	12(140)	14(190)
22:33:47	10(160)	8(150)	9(190)	8(150)	10(160)	13(190)
22:33:57	10(160)	8(160)	10(190)	6(150)	8(160)	13(190)
22:34:7	9(150)	8(160)	9(180)	6(140)	8(150)	13(190)
22:34:17	9(150)	9(160)	8(190)	7(130)	7(160)	13(170)
22:34:27	9(150)	10(160)	7(190)	5(130)	9(160)	10(190)
22:34:37	9(150)	10(160)	7(190)	5(130)	9(160)	11(170)
22:34:47	9(150)	9(150)	6(1170)	4(140)	8(160)	12(170)
22:34:57	9(150)	9(140)	5(190)	8(150)	7(140)	10(180)
22:35:7	9(150)	11(140)	5(160)	9(130)	6(160)	7(180)
22:35:17	9(150)	10(140)	5(140)	8(140)	9(130)	7(160)
22:35:27	9(150)	10(150)	5(140)	8(150)	7(140)	7(160)
22:35:37	10(150)	15(150)	5(140)	8(140)	8(150)	8(160)
22:35:47	10(150)	16(150)	5(160)	7(160)	10(140)	8(140)
22:35:57	11(150)	17(150)	5(160)	7(150)	9(150)	5(130)
22:36:7	11(150)	14(150)	5(1180)	4(130)	9(150)	6(170)
22:36:17	12(150)	15(150)	5(160)	6(140)	10(150)	7(170)
22:36:27	12(150)	14(160)	5(1170)	6(140)	10(140)	8(170)
22:36:37	12(150)	14(160)	5(160)	6(140)	10(140)	8(170)
22:36:47	13(150)	13(150)	4(160)	7(140)	9(150)	9(180)
22:36:57	13(150)	14(150)	5(170)	7(140)	7(150)	10(180)
22:37:7	14(150)	17(150)	5(170)	7(140)	6(140)	5(190)
22:37:17	14(150)	16(140)	6(160)	6(140)	5(140)	5(190)
22:37:27	14(150)	16(140)	6(160)	5(140)	0(360)	6(190)
22:37:37	15(140)	16(120)	4(190)	4(1130)	7(140)	7(170)
22:37:47	15(140)	16(120)	6(1170)	5(130)	9(140)	8(180)
22:37:57	15(140)	17(110)	9(1180)	5(130)	9(140)	8(190)
22:38:7	15(140)	16(110)	10(180)	5(130)	6(140)	7(190)
22:38:17	14(130)	14(1100)	10(1170)	5(120)	9(150)	5(150)
22:38:27	15(130)	16(1100)	10(180)	7(110)	9(140)	7(170)
22:38:37	15(120)	16(1100)	12(180)	7(110)	9(130)	5(160)
22:38:47	15(120)	16(1100)	10(1170)	8(100)	9(140)	5(160)
22:38:57	15(120)	15(1120)	8(170)	7(110)	9(130)	6(170)
22:39:7	15(120)	15(1100)	9(160)	8(120)	7(130)	7(190)
22:39:17	15(110)	16(110)	12(170)	10(130)	9(110)	10(190)
22:39:27	15(110)	18(110)	10(1170)	9(120)	3(120)	11(170)
22:39:37	16(110)	18(1100)	10(160)	7(120)	10(140)	13(170)
22:39:47	16(110)	19(1100)	9(160)	7(120)	10(140)	12(190)
22:39:57	16(110)	21(1100)	8(160)	6(110)	12(140)	14(190)
22:40:7	16(110)	24(1100)	9(160)	6(110)	12(130)	14(170)
22:40:17	17(100)	24(1100)	9(160)	6(110)	12(130)	14(170)
22:40:27	19(100)	24(1100)	12(160)	7(110)	12(140)	12(170)
22:40:37	19(100)	21(1100)	14(170)	7(110)	11(140)	13(175)
22:40:47	19(100)	21(1100)	12(180)	6(110)	12(140)	13(175)
22:40:57	19(110)	21(1100)	12(180)	6(110)	12(140)	12(190)
22:41:7	20(100)	21(1100)	13(190)	8(100)	10(140)	17(180)
22:41:17	20(100)	20(1100)	16(190)	8(100)	5(150)	20(180)
22:41:27	20(100)	19(1100)	16(190)	4(150)	4(150)	20(180)
22:41:37	20(110)	21(110)	17(190)	11(130)	4(150)	20(180)
22:41:47	20(110)	20(110)	19(190)	10(100)	5(140)	23(180)
22:41:57	21(110)	21(110)	18(180)	10(100)	7(140)	21(180)
22:42:7	21(110)	21(110)	18(180)	8(100)	5(120)	20(190)
22:42:17	20(110)	18(1100)	15(190)	6(100)	5(120)	20(180)

22:42:27	20(110)	*18(100)	*18(190)	* 7(90)	4(140)	25(190)
22:42:37	20(100)	*18(100)	*15(180)	* 9(100)	4(140)	25(190)
22:42:47	19(110)	*17(100)	*15(180)	*10(110)	3(130)	29(180)
22:42:57	19(110)	*19(100)	*15(180)	*12(100)	3(120)	*35(180)
22:43: 7	19(100)	*18(90)	*16(180)	*10(110)	* 5(110)	*34(170)
22:43:17	19(100)	*18(90)	*14(180)	* 9(110)	* 6(130)	*34(170)
22:43:27	18(100)	*15(90)	*12(180)	* 7(110)	* 9(120)	*25(170)
22:43:37	18(100)	*18(90)	*13(190)	* 5(100)	* 9(120)	*26(170)
22:43:47	18(100)	*17(80)	*14(190)	* 5(80)	* 6(100)	*19(170)
22:43:57	17(100)	*14(80)	*15(190)	* 7(100)	* 6(100)	*16(180)
22:44: 7	16(100)	*15(90)	*15(190)	* 7(100)	* 6(100)	*15(190)
22:44:17	16(100)	*15(90)	*16(190)	* 7(100)	* 5(120)	*16(190)
22:44:27	16(90)	*15(90)	*14(190)	* 6(100)	* 8(130)	*14(190)
22:44:37	16(90)	*14(80)	*13(190)	3(100)	* 6(130)	*12(170)
22:44:47	16(90)	*13(80)	*13(200)	7(100)	* 9(130)	* 9(160)
22:44:57	15(90)	*13(90)	*13(190)	7(100)	* 8(130)	* 8(160)
22:45: 7	15(90)	*12(80)	*13(200)	5(100)	5(120)	* 7(160)
22:45:17	14(90)	*12(90)	*16(210)	5(100)	6(100)	9(150)
22:45:27	14(90)	*12(80)	*11(220)	4(100)	9(120)	8(160)
22:45:37	14(90)	*14(80)	*10(220)	5(100)	7(110)	9(140)
22:45:47	14(80)	*13(80)	*12(220)	5(90)	4(90)	6(110)
22:45:57	13(90)	*13(90)	* 9(220)	6(80)	5(80)	5(130)
22:46: 7	13(90)	*12(80)	*12(220)	7(80)	6(80)	6(130)
22:46:17	13(90)	*12(80)	*12(210)	5(80)	5(100)	5(120)
22:46:27	12(80)	*14(80)	*12(220)	5(80)	6(80)	5(110)
22:46:37	12(80)	*13(80)	* 9(220)	8(80)	5(100)	5(110)
22:46:47	12(80)	*15(80)	*10(210)	6(80)	3(90)	5(120)
22:46:57	12(80)	*10(90)	*10(220)	5(80)	0(360)	5(110)
22:47: 7	12(80)	*12(100)	*13(210)	6(100)	0(360)	3(110)
22:47:17	12(80)	*10(90)	*16(200)	8(100)	0(360)	3(100)
22:47:27	12(80)	*14(80)	*15(210)	3(100)	3(100)	10(100)
22:47:37	12(80)	*12(80)	*14(210)	7(90)	5(100)	10(90)
22:47:47	12(80)	*10(90)	*13(210)	10(90)	6(80)	8(80)
22:47:57	12(90)	*10(80)	*14(210)	8(110)	5(80)	5(100)
22:48: 7	12(90)	*12(80)	*13(200)	7(100)	5(100)	9(110)
22:48:17	12(90)	*12(80)	*14(200)	5(100)	5(80)	7(100)
22:48:27	12(90)	*12(80)	*15(200)	5(80)	5(100)	4(110)
22:48:37	12(90)	*12(90)	*14(200)	4(90)	7(100)	0(360)
22:48:47	12(90)	*14(90)	*14(200)	3(90)	5(100)	5(100)
22:48:57	12(90)	*13(90)	*14(200)	5(80)	3(80)	6(110)
22:49: 7	12(90)	*12(80)	*14(200)	2(100)	3(80)	3(100)
22:49:17	12(90)	*11(80)	*13(200)	6(80)	4(70)	5(110)
22:49:27	12(90)	*11(90)	*13(200)	6(60)	4(90)	8(100)
22:49:37	12(90)	*12(90)	*13(200)	5(60)	3(100)	3(120)
22:49:47	12(90)	*12(90)	*12(210)	7(80)	3(90)	3(100)
22:49:57	12(90)	*10(90)	*13(210)	7(90)	3(100)	6(110)
22:50: 7	12(90)	*12(90)	*13(200)	5(100)	3(100)	8(120)
22:50:17	12(90)	*11(100)	*13(210)	5(80)	4(70)	12(100)
22:50:27	12(90)	*10(90)	* 8(210)	4(90)	6(80)	9(110)
22:50:37	11(90)	*10(90)	* 7(220)	4(100)	4(50)	6(110)
22:50:47	11(90)	* 9(90)	* 9(220)	4(70)	4(60)	4(130)
22:50:57	11(90)	*10(90)	* 9(210)	5(100)	4(60)	5(110)
22:51: 7	10(90)	*10(90)	* 9(220)	5(100)	4(90)	6(130)
22:51:17	10(90)	*10(90)	* 8(210)	5(100)	4(100)	9(100)
22:51:27	10(90)	*10(80)	* 6(200)	5(100)	5(80)	7(120)
22:51:37	10(90)	*10(80)	* 5(220)	5(100)	6(70)	4(120)
22:51:47	10(90)	*10(90)	* 6(210)	4(100)	5(80)	3(100)
22:51:57	10(90)	8(90)	5(210)	3(100)	6(80)	3(120)
22:52: 7	10(90)	8(90)	4(210)	4(100)	4(70)	7(160)
22:52:17	10(90)	10(80)	5(200)	3(100)	3(60)	6(130)

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22:52:27	10(90)	11(90)	7(200)	3(100)	4(70)	7(130)
22:52:37	9(90)	10(90)	7(200)	3(100)	3(60)	5(150)
22:52:47	9(90)	9(90)	6(210)	3(100)	3(80)	5(130)
22:52:57	9(90)	8(90)	7(210)	4(100)	4(100)	5(130)
22:53: 7	9(90)	10(100)	7(200)	4(100)	3(80)	8(130)
22:53:17	9(90)	10(100)	6(190)	3(90)	0(360)	6(140)
22:53:27	9(90)	10(90)	5(190)	3(100)	3(80)	7(130)
22:53:37	9(90)	9(90)	4(190)	0(360)	4(100)	8(110)
22:53:47	9(90)	7(90)	5(190)	0(360)	4(100)	8(110)
22:53:57	9(90)	10(90)	6(190)	0(360)	4(110)	9(110)
22:54: 7	9(90)	9(90)	7(200)	3(100)	4(100)	6(130)
22:54:17	9(90)	8(100)	6(190)	4(100)	3(100)	5(150)
22:54:27	9(90)	10(90)	5(190)	4(100)	0(360)	5(150)
22:54:37	9(90)	10(90)	4(190)	4(100)	0(360)	6(140)
22:54:47	9(90)	10(90)	3(170)	4(100)	3(90)	3(140)
22:54:57	9(90)	9(90)	3(170)	3(100)	4(100)	5(140)
22:55: 7	9(90)	9(90)	4(160)	0(360)	4(80)	7(150)
22:55:17	9(90)	9(90)	4(150)	3(90)	5(90)	6(150)
22:55:27	9(90)	8(100)	6(140)	3(80)	4(100)	5(120)
22:55:37	8(100)	8(100)	5(150)	4(80)	5(120)	0(360)
22:55:47	8(100)	7(100)	6(140)	4(80)	5(110)	4(140)
22:55:57	8(100)	7(90)	4(160)	3(80)	4(100)	5(140)
22:56: 7	8(100)	7(90)	5(150)	0(360)	5(110)	5(120)
22:56:17	8(100)	9(90)	4(160)	3(60)	4(100)	4(140)
22:56:27	8(100)	7(90)	5(150)	3(80)	3(100)	4(140)
22:56:37	8(100)	7(80)	6(150)	3(80)	3(60)	6(140)
22:56:47	7(90)	7(80)	7(150)	3(80)	3(50)	5(140)
22:56:57	7(90)	8(80)	6(150)	0(360)	0(360)	4(140)
22:57: 7	7(90)	9(90)	5(160)	0(360)	0(360)	5(160)
22:57:17	7(90)	8(90)	6(150)	0(360)	0(360)	5(150)
22:57:27	7(90)	8(90)	7(140)	0(360)	0(360)	4(140)
22:57:37	7(90)	8(90)	7(140)	0(360)	3(100)	4(150)
22:57:47	7(90)	7(80)	5(160)	0(360)	3(100)	5(150)
22:57:57	7(90)	7(90)	4(160)	3(80)	4(110)	4(160)
22:58: 7	7(90)	6(90)	4(140)	3(80)	3(100)	3(150)
22:58:17	7(90)	6(90)	4(140)	0(360)	3(100)	5(150)
22:58:27	7(90)	6(90)	4(140)	0(360)	4(100)	4(140)
22:58:37	7(80)	10(80)	5(140)	0(360)	5(100)	5(120)
22:58:47	7(90)	8(90)	4(150)	0(360)	5(100)	5(130)
22:58:57	7(90)	8(90)	4(150)	0(360)	5(100)	5(130)
22:59: 7	7(90)	8(80)	5(150)	0(360)	4(100)	5(140)
22:59:17	7(90)	8(90)	5(140)	0(360)	5(120)	5(140)
22:59:27	7(90)	8(90)	5(140)	0(360)	4(120)	5(120)
22:59:37	7(90)	8(80)	5(150)	3(60)	3(120)	4(110)
22:59:47	7(90)	8(90)	5(150)	3(80)	0(360)	4(140)
22:59:57	7(90)	9(90)	5(150)	0(360)	0(360)	5(150)
23: 0: 7	7(90)	10(90)	4(140)	0(360)	0(360)	3(130)
23: 0:17	8(90)	9(90)	4(150)	0(360)	0(360)	4(130)
23: 0:27	8(90)	9(90)	5(150)	0(360)	0(360)	5(130)
23: 0:37	8(90)	10(90)	4(140)	0(360)	0(360)	6(120)
23: 0:47	8(90)	9(90)	5(150)	0(360)	0(360)	5(140)
23: 0:57	8(90)	9(90)	4(160)	0(360)	0(360)	3(150)
23: 1: 7	8(90)	8(90)	5(150)	0(360)	0(360)	0(360)
23: 1:17	8(90)	8(90)	7(150)	0(360)	0(360)	0(360)
23: 1:27	8(90)	7(100)	6(150)	0(360)	0(360)	3(140)
23: 1:37	8(90)	7(90)	6(160)	0(360)	0(360)	3(130)
23: 1:47	8(90)	7(90)	7(160)	0(360)	0(360)	3(100)
23: 1:57	8(90)	7(90)	6(140)	0(360)	0(360)	0(360)
23: 2: 7	7(90)	6(100)	5(150)	0(360)	0(360)	3(120)
23: 2:17	7(90)	6(90)	4(160)	0(360)	0(360)	3(120)

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23: 2:27	7(90)	6(100)	5(150)	0(360)	0(360)	4(140)
23: 2:37	7(100)	6(100)	6(160)	0(360)	0(360)	4(140)
23: 2:47	7(100)	8(100)	6(160)	0(360)	0(360)	3(140)
23: 2:57	7(100)	8(90)	5(150)	0(360)	0(360)	0(360)
23: 3: 7	7(100)	8(90)	5(150)	0(360)	3(80)	5(150)
23: 3:17	7(100)	7(100)	6(160)	0(360)	3(80)	6(110)
23: 3:27	7(100)	7(100)	6(160)	0(360)	3(80)	6(130)
23: 3:37	7(100)	8(100)	6(160)	0(360)	0(360)	4(150)
23: 3:47	7(100)	8(80)	5(150)	0(360)	3(80)	5(120)
23: 3:57	7(100)	7(80)	5(150)	0(360)	4(70)	3(140)
23: 4: 7	7(100)	6(100)	6(160)	0(360)	3(90)	0(360)
23: 4:17	7(100)	6(100)	4(160)	0(360)	3(90)	4(120)
23: 4:27	7(100)	5(100)	7(160)	0(360)	0(360)	6(130)
23: 4:37	7(100)	5(100)	7(160)	0(360)	0(360)	4(140)
23: 4:47	7(100)	7(100)	5(150)	0(360)	0(360)	3(140)
23: 4:57	7(100)	8(100)	5(150)	0(360)	0(360)	3(130)
23: 5: 7	7(100)	8(100)	5(150)	0(360)	0(360)	5(140)
23: 5:17	7(100)	8(100)	6(140)	0(360)	0(360)	5(140)
23: 5:27	7(100)	8(100)	5(150)	0(360)	0(360)	5(120)
23: 5:37	7(100)	7(100)	6(140)	0(360)	0(360)	4(120)
23: 5:47	6(100)	5(90)	6(130)	0(360)	0(360)	0(360)
23: 5:57	6(100)	5(90)	8(140)	0(360)	0(360)	3(140)
23: 6: 7	6(100)	4(110)	7(140)	0(360)	0(360)	6(130)
23: 6:17	6(100)	4(110)	6(130)	3(60)	0(360)	5(110)
23: 6:27	6(100)	6(100)	6(140)	3(80)	0(360)	4(130)
23: 6:37	6(100)	5(90)	5(140)	0(360)	0(360)	4(130)
23: 6:47	6(100)	5(110)	6(140)	0(360)	3(100)	5(140)
23: 6:57	6(100)	4(110)	5(140)	0(360)	3(90)	5(110)
23: 7: 7	6(100)	5(110)	5(140)	0(360)	0(360)	3(140)
23: 7:17	5(110)	5(120)	4(130)	3(80)	0(360)	4(130)
23: 7:27	5(110)	5(120)	4(140)	3(80)	0(360)	5(150)
23: 7:37	5(110)	6(120)	4(140)	3(80)	0(360)	4(140)
23: 7:47	5(110)	6(120)	4(140)	0(360)	0(360)	4(140)
23: 7:57	5(110)	7(110)	5(120)	0(360)	0(360)	3(130)
23: 8: 7	5(110)	7(110)	4(130)	0(360)	0(360)	0(360)
23: 8:17	5(110)	7(110)	4(140)	0(360)	0(360)	0(360)
23: 8:27	5(110)	7(110)	4(140)	0(360)	0(360)	3(140)
23: 8:37	5(120)	7(110)	3(130)	0(360)	0(360)	5(140)
23: 8:47	6(120)	7(110)	3(140)	0(360)	0(360)	5(140)
23: 8:57	6(120)	7(110)	5(140)	0(360)	0(360)	5(140)
23: 9: 7	6(120)	6(110)	4(140)	0(360)	0(360)	3(130)
23: 9:17	6(120)	6(110)	4(140)	0(360)	0(360)	5(140)
23: 9:27	6(120)	6(100)	5(130)	0(360)	0(360)	5(140)
23: 9:37	6(120)	5(120)	6(140)	0(360)	0(360)	5(130)
23: 9:47	6(120)	4(110)	5(120)	0(360)	0(360)	4(120)
23: 9:57	6(120)	5(110)	4(140)	0(360)	0(360)	3(140)
23:10: 7	6(120)	6(110)	4(130)	0(360)	0(360)	3(140)
23:10:17	6(120)	6(120)	4(130)	0(360)	0(360)	0(360)
23:10:27	6(120)	6(120)	4(140)	3(100)	0(360)	0(360)
23:10:37	6(120)	5(120)	5(140)	3(120)	4(130)	3(130)
23:10:47	6(120)	6(120)	5(150)	4(100)	6(140)	3(130)
23:10:57	5(120)	6(120)	4(130)	0(360)	5(130)	3(130)
23:11: 7	5(120)	6(120)	4(140)	0(360)	3(140)	4(120)
23:11:17	5(120)	7(120)	4(140)	0(360)	4(160)	4(140)
23:11:27	5(120)	6(130)	4(140)	4(160)	3(170)	3(140)
23:11:37	6(130)	6(140)	4(140)	5(160)	4(160)	3(150)
23:11:47	6(130)	6(140)	3(140)	5(150)	6(170)	0(360)
23:11:57	6(130)	7(130)	4(150)	4(150)	4(140)	0(360)
23:12: 7	6(130)	6(140)	4(150)	3(100)	3(100)	3(140)
23:12:17	6(130)	6(140)	4(160)	4(110)	0(360)	3(140)

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23:12:27	5(130)	6(140)	4(140)	5(120)	0(360)	3(130)
23:12:37	6(130)	5(140)	5(140)	5(140)	4(140)	3(100)
23:12:47	6(140)	6(140)	5(120)	4(340)	5(140)	3(140)
23:12:57	6(140)	6(120)	3(130)	0(350)	5(140)	3(120)
23:13: 7	6(140)	6(130)	3(130)	3(140)	4(140)	0(380)
23:13:17	6(140)	7(120)	4(140)	5(150)	5(140)	0(350)
23:13:27	6(140)	5(130)	3(130)	4(150)	5(140)	3(140)
23:13:37	6(140)	7(130)	0(340)	7(160)	4(140)	0(350)
23:13:47	6(140)	6(110)	0(360)	6(140)	4(140)	3(130)
23:13:57	6(130)	6(130)	3(150)	6(140)	3(180)	4(140)



U.S. Department
of Transportation
**Federal Aviation
Administration**

Memorandum

Subject: **INFORMATION: NTSB Inquiries Regarding the** Date: **AUG 24 1994**
Charlotte-Douglas International Airport (CLT)
Low Level Windshear Alert System (LLWAS)

From: **LLWAS Associate Program Manager for Test** Reply to
(APMT), ACW-200A Attn. of:

To: **LLWAS Associate Program Manager for**
Engineering (APME), ANW-700

The following is to provide information requested by the National Transportation Safety Board (NTSB). This information pertains to the incident that occurred at Charlotte-Douglas International Airport (CLT) on July 2, 1994.

The following questions were received from NTSB: 1. Are there any wind sensor siting criteria for the LLWAS? 2. What siting criteria were used for the CLT LLWAS? 3. Are any of the LLWAS wind sensors at CLT affected by surrounding trees and/or buildings? 4. Why did the Northeast quadrant alarm before the Northwest quadrant?

Answers are provided as follows:

For question #1: Wind sensors for LLWAS are sited to comply with FAA Order 6560.21A, issued December 4, 1989.

For question #2: The CLT LLWAS was sited prior to the issuance of Order 6560.21A or any previous editions of that order. Siting criteria which apply to the CLT LLWAS are described in Report FAA-RD-80-45, FAA-NA-80-1, issued May 1980. That report deals with shielding of anemometers, but the standards were less stringent than those now currently utilized. Geometry of networks carried weight in siting the anemometers, but the logistical aspects of locating them was also very significant. Hence, many anemometers are co-located at the Middle Marker of an Instrument Landing System (ILS) when they should ideally be 700 to 1,700 feet outbound from it to comply with standards then in effect. It is also important to realize, that at the time of the installation of the CLT LLWAS, the concern was to detect gust fronts, not microbursts.

For question #3: A Site Performance Evaluation System (SPES) analysis indicated that LLWAS sensors 3 and 6 wind speeds are lower than the centerfield sensor. These deviations are due to sheltering and are significant enough to degrade the system. SPES also indicated that LLWAS sensors 2, 4 and 5 are slightly

17

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:35: 7



STATION

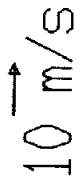
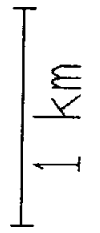
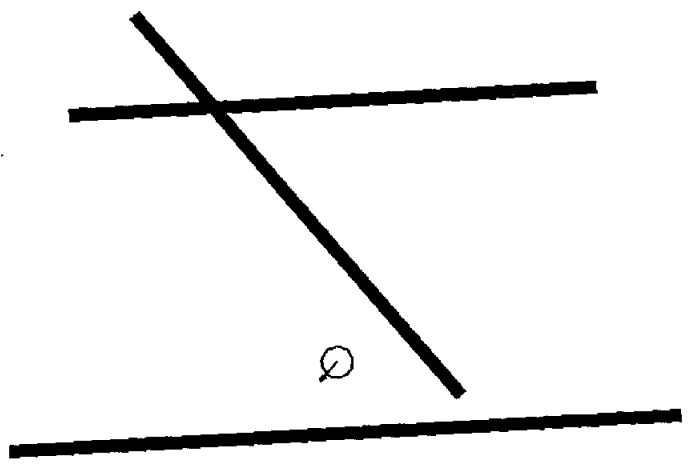


WIND VECTOR



RUNWAY

FAA TECHNICAL CENTER
7/7/94



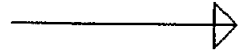
19

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:35:17

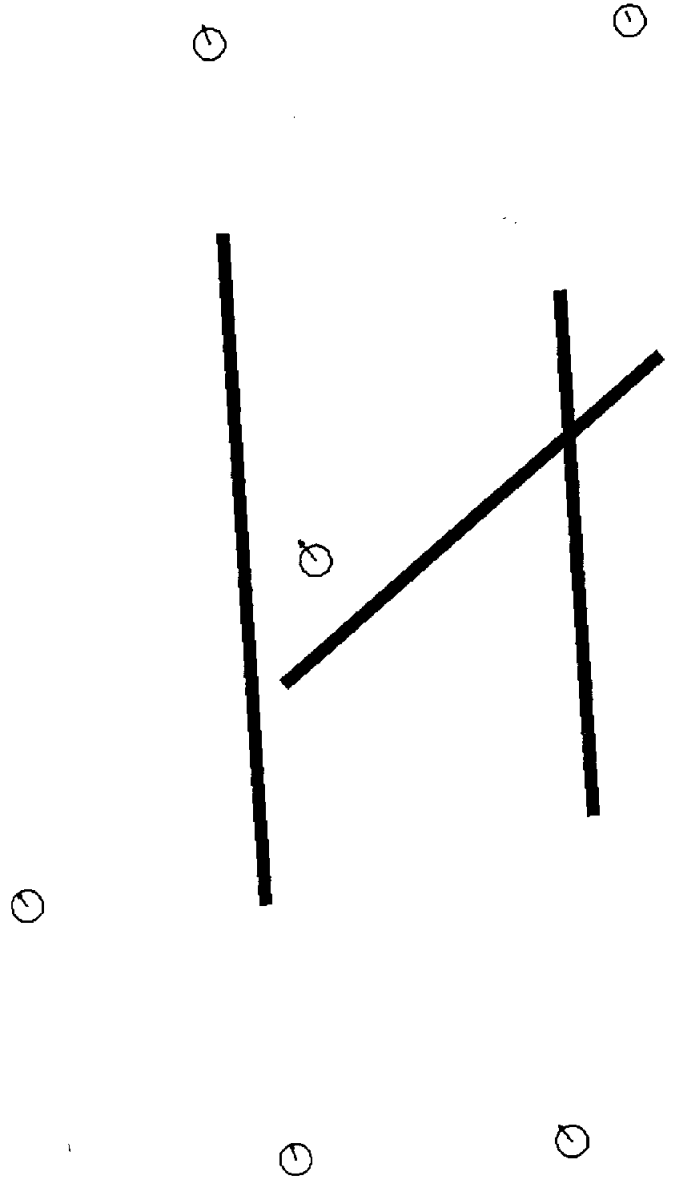
STATION



WIND VECTOR



RUNWAY



02

1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT

DATE: 7/ 2/94

TIME: 22:35:27

STATION



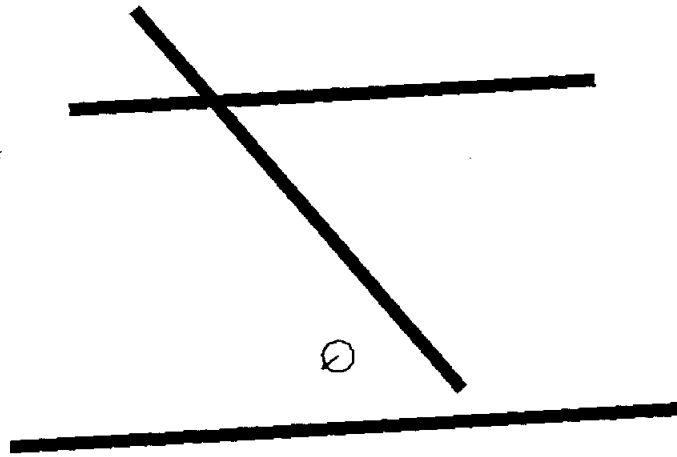
WIND VECTOR



RUNWAY



FAA TECHNICAL CENTER
7/7/94



10 m/s

1 km

21

CHARLOTTE INTL AIRPORT

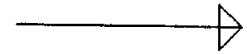
DATE: 7/ 2/94

TIME: 22:35:37

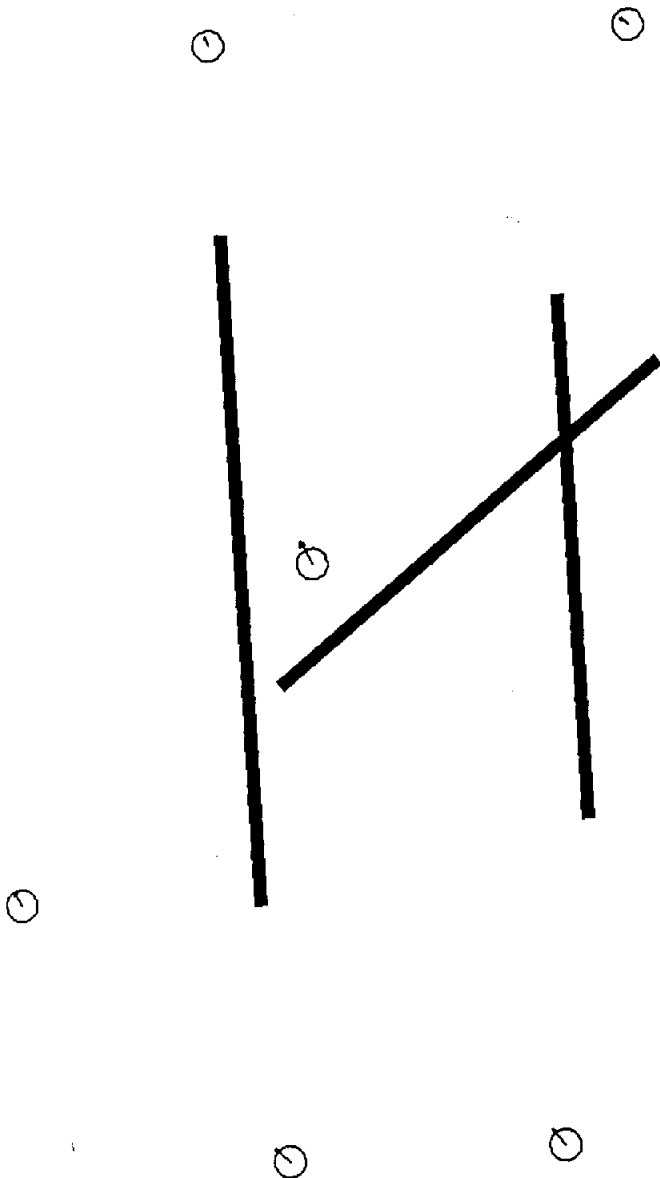
STATION



WIND VECTOR



RUNWAY



22

1 km

10 m/s

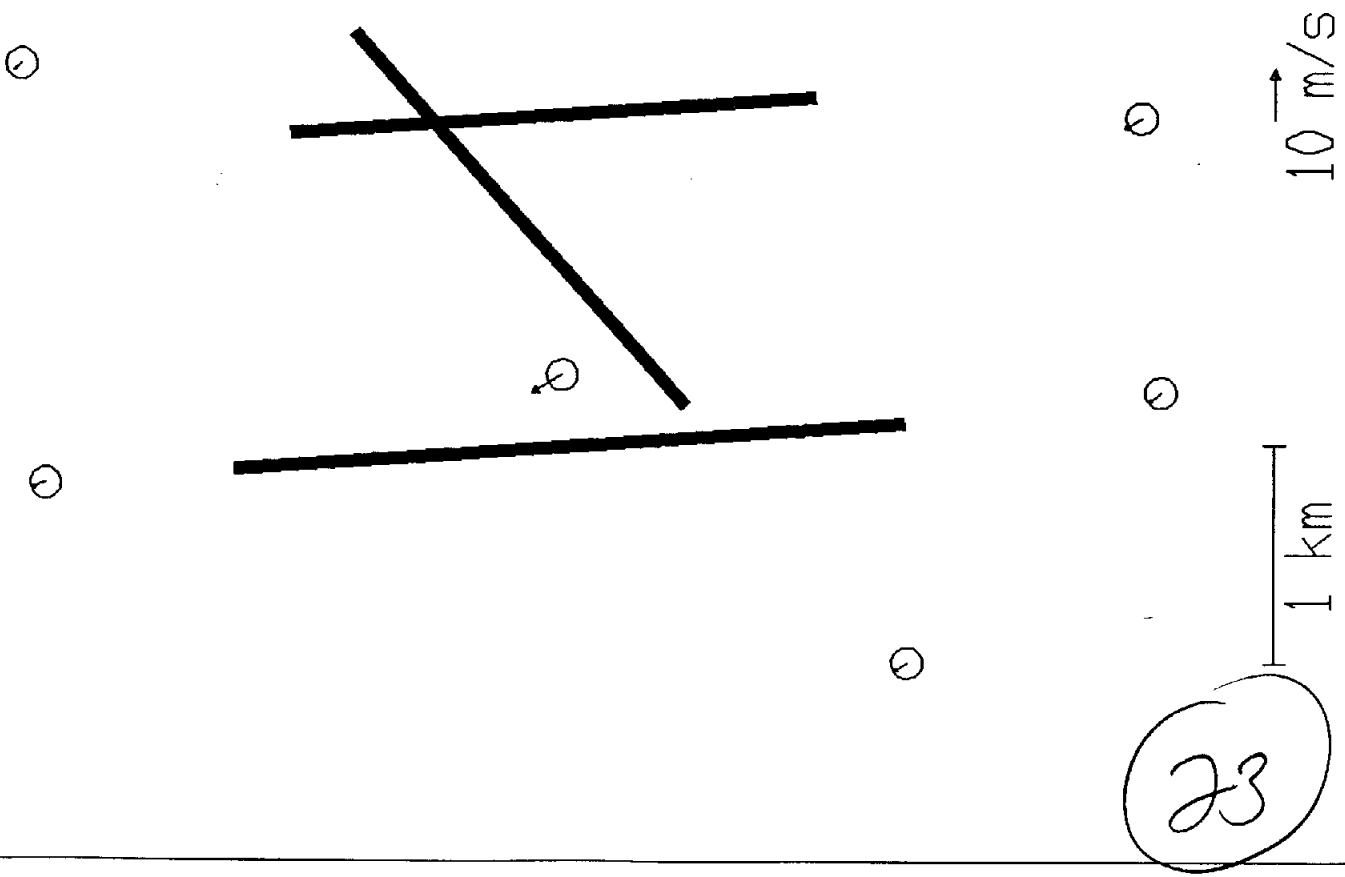
FAA TECHNICAL CENTER

7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:35:47

STATION ○
WIND VECTOR →
RUNWAY —

FAA TECHNICAL CENTER
7/7/94



CHARLOTTE INTL AIRPORT

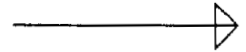
DATE: 7/ 2/94

TIME: 22:35:57

STATION



WIND VECTOR



RUNWAY



24

1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94

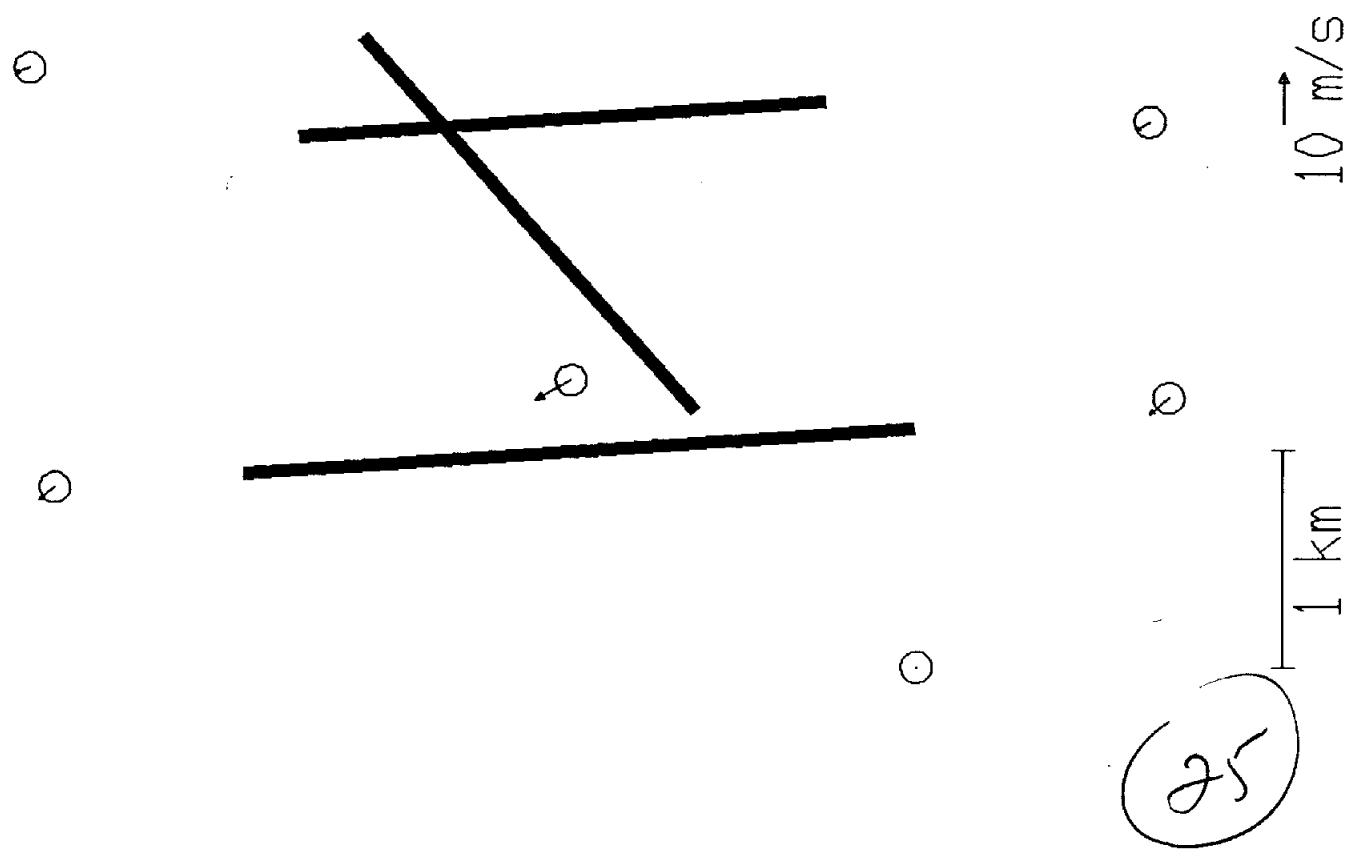
CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:36: 7

STATION ○

WIND VECTOR →

RUNWAY ———

FAA TECHNICAL CENTER
7/7/94

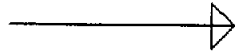


CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:36:17

STATION



WIND VECTOR



RUNWAY



96

1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:36:27

STATION



WIND VECTOR




RUNWAY



tl

1 km

10  m/s

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:36:37



STATION

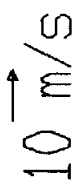
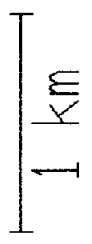
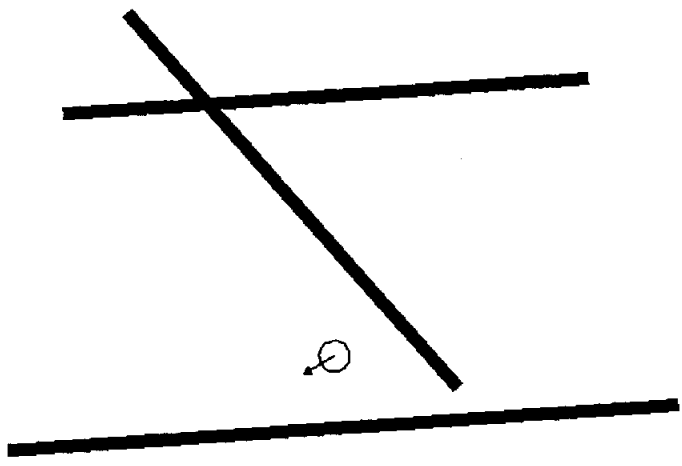


WIND VECTOR



RUNWAY

FAA TECHNICAL CENTER
7/7/94



28

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:36:47

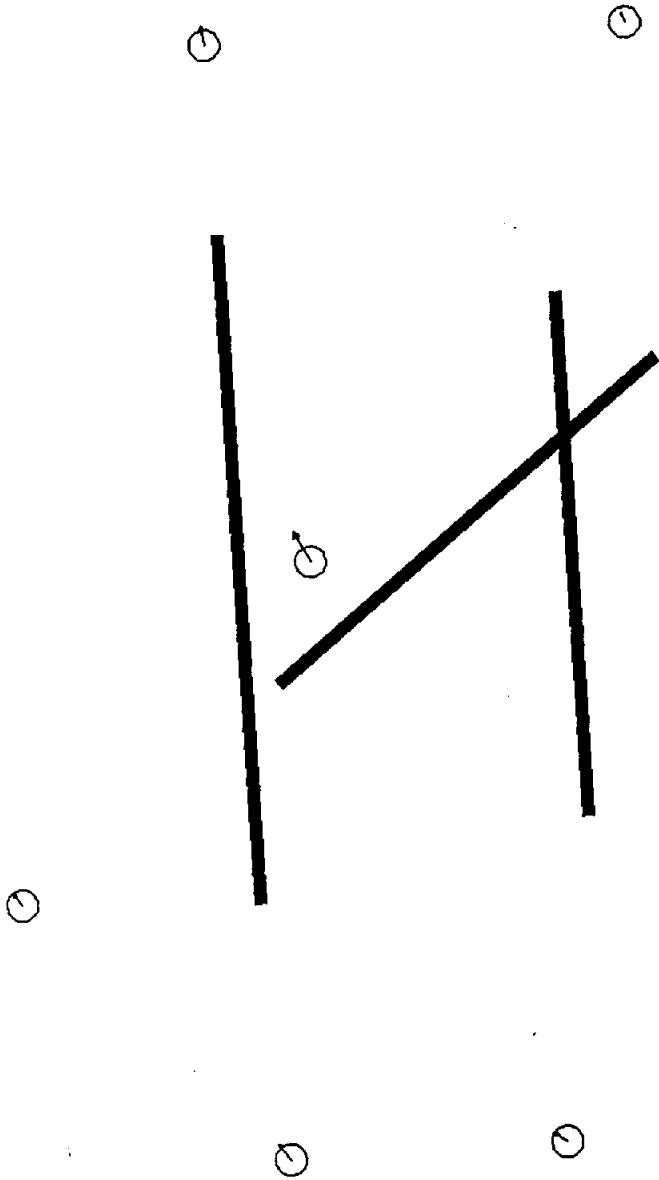
STATION



WIND VECTOR



RUNWAY



68

1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94

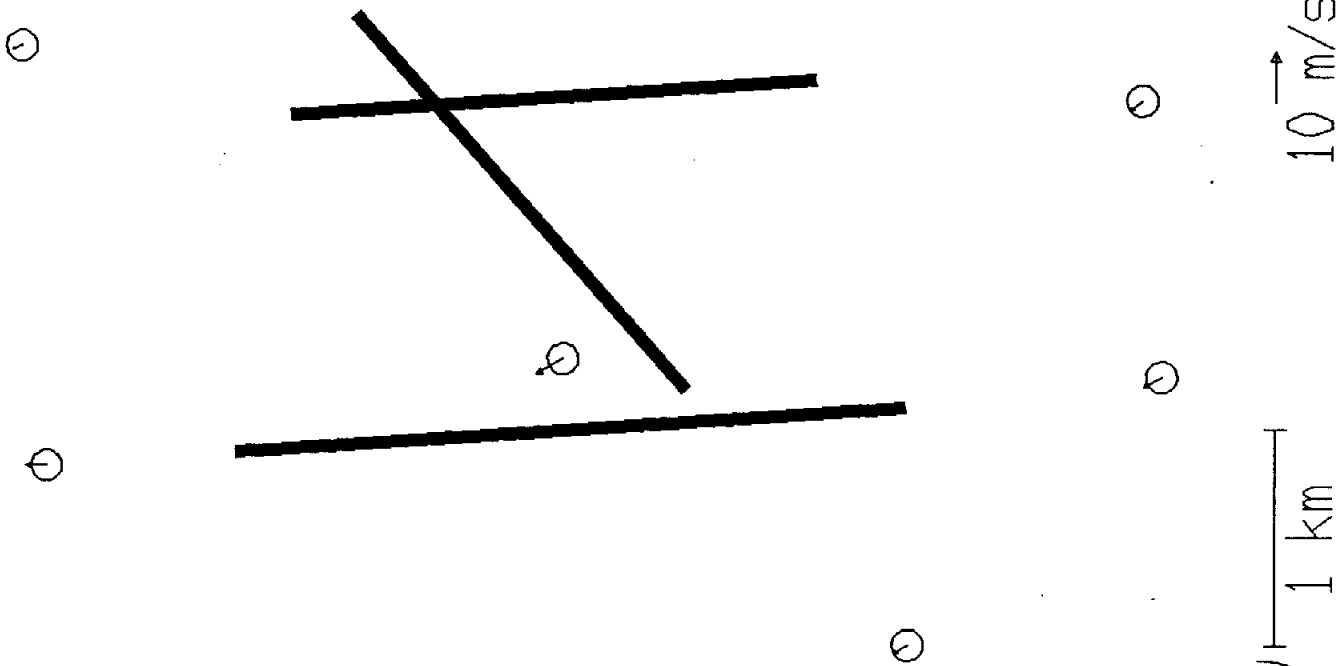
CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:36:57

STATION ○

WIND VECTOR →

RUNWAY ———

FAA TECHNICAL CENTER
7/7/94



30

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:37: 7

STATION



WIND VECTOR



RUNWAY



31

1 km

10 m/s

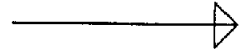
FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:37:17

STATION



WIND VECTOR




RUNWAY



32

1 km

10  m/s

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:37:27

STATION



WIND VECTOR



RUNWAY



33

1 km

10 m/s

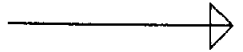
FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:37:37

STATION



WIND VECTOR



RUNWAY



316

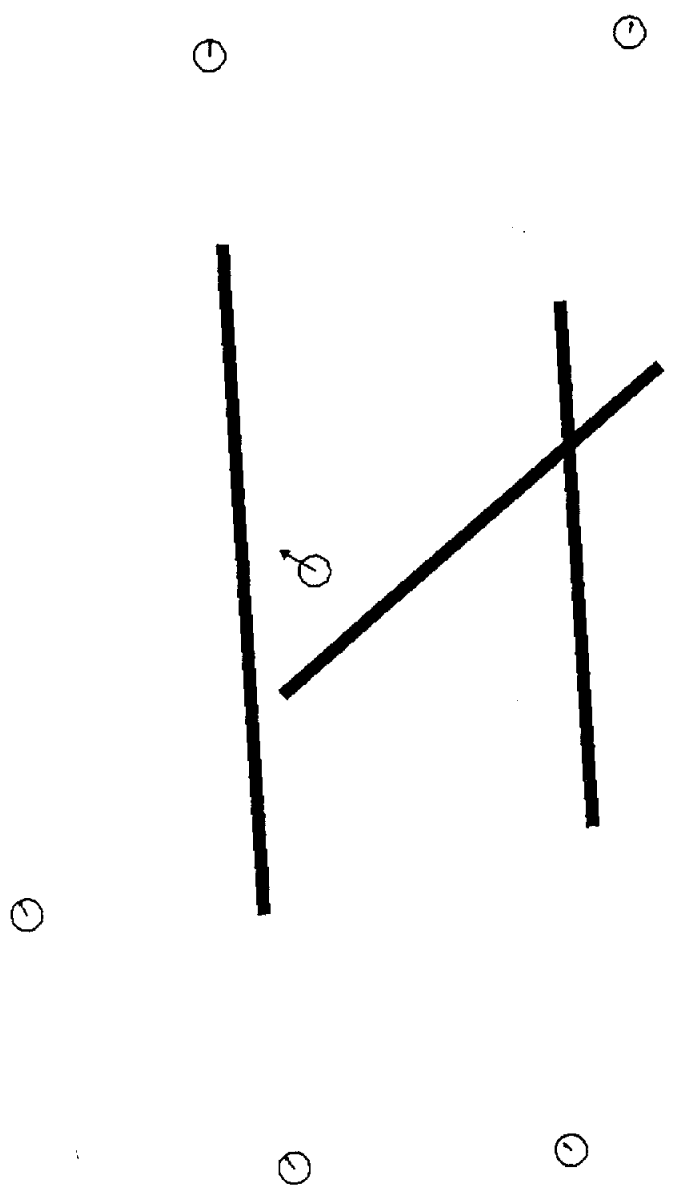
1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:37:47

STATION ○
WIND VECTOR →
RUNWAY ———



35

1 km

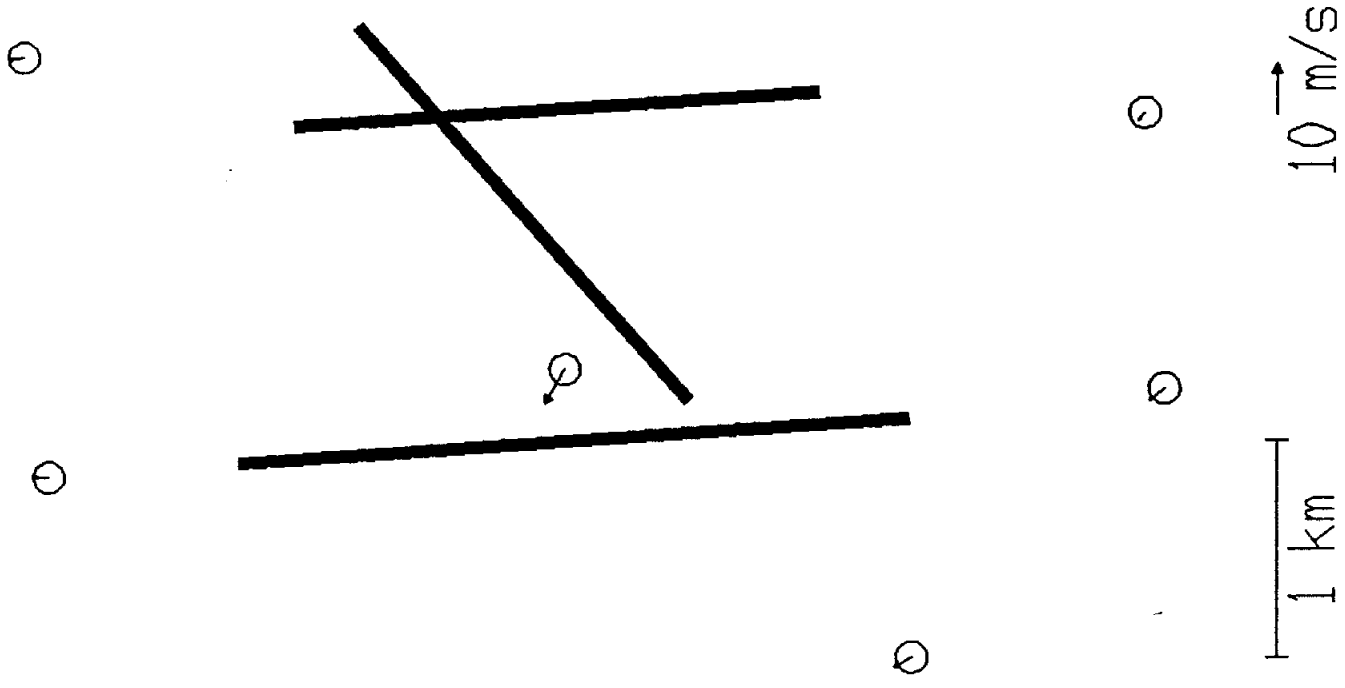
10 m/s →

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:37:57

STATION ○
WIND VECTOR →
RUNWAY —

FAA TECHNICAL CENTER
7/7/94

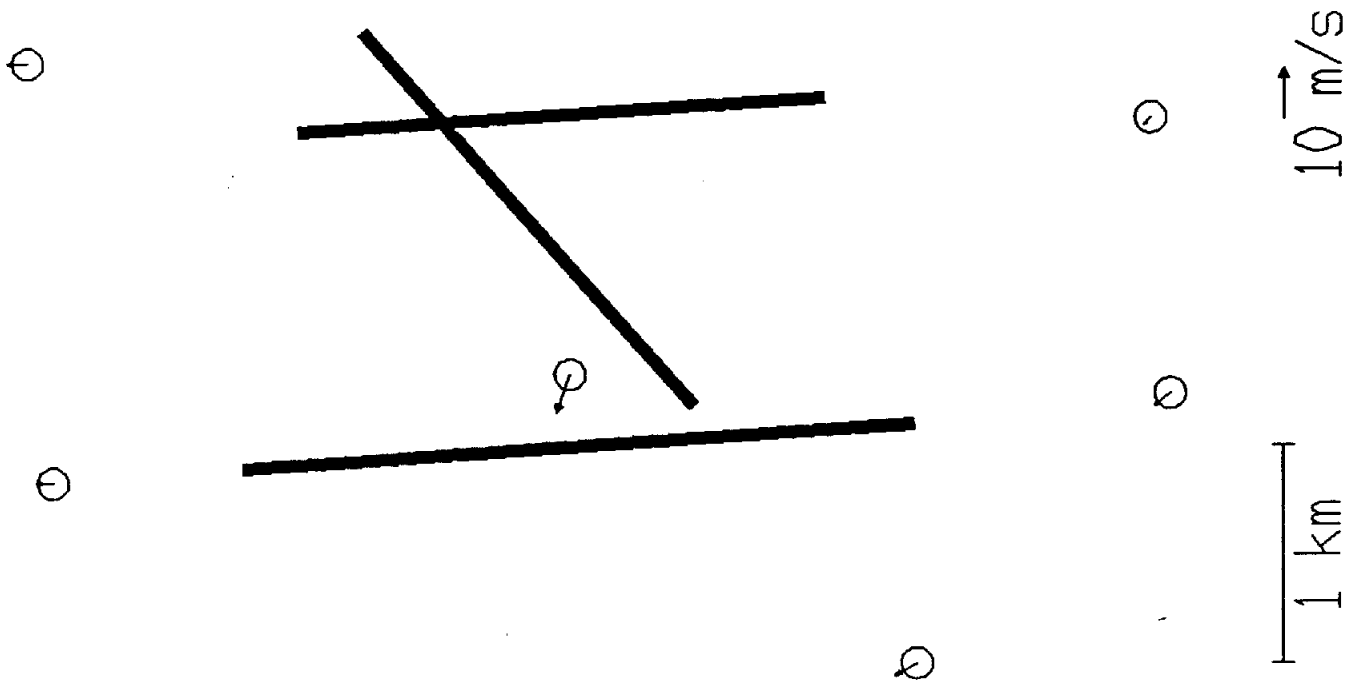


36

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:38: 7

STATION ○
WIND VECTOR →
RUNWAY ———

FAA TECHNICAL CENTER
7/7/94



37

CHARLOTTE INTL AIRPORT

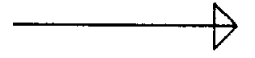
DATE: 7/ 2/94

TIME: 22:38:17

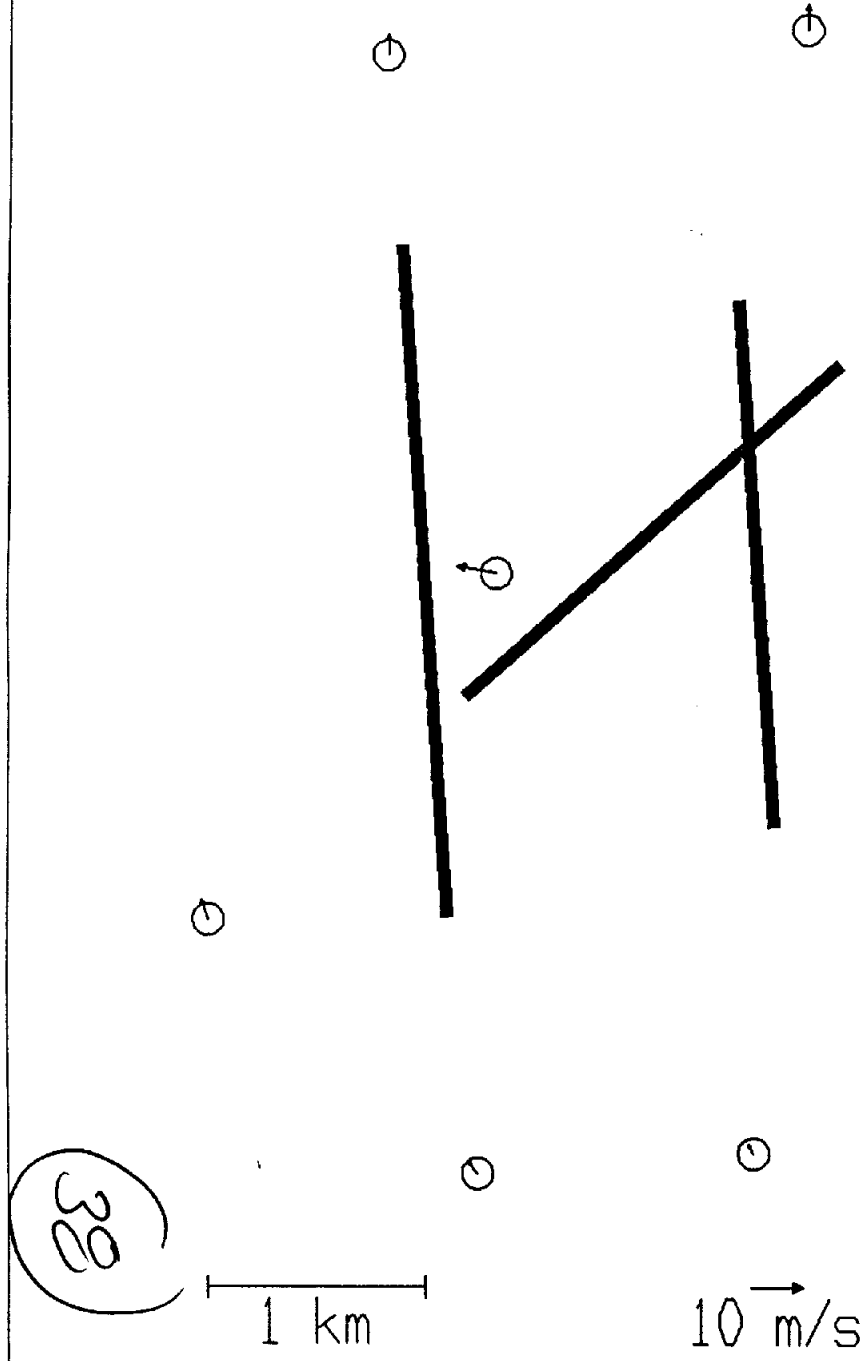
STATION



WIND VECTOR



RUNWAY



FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT

DATE: 7/ 2/94

TIME: 22:38:27

STATION



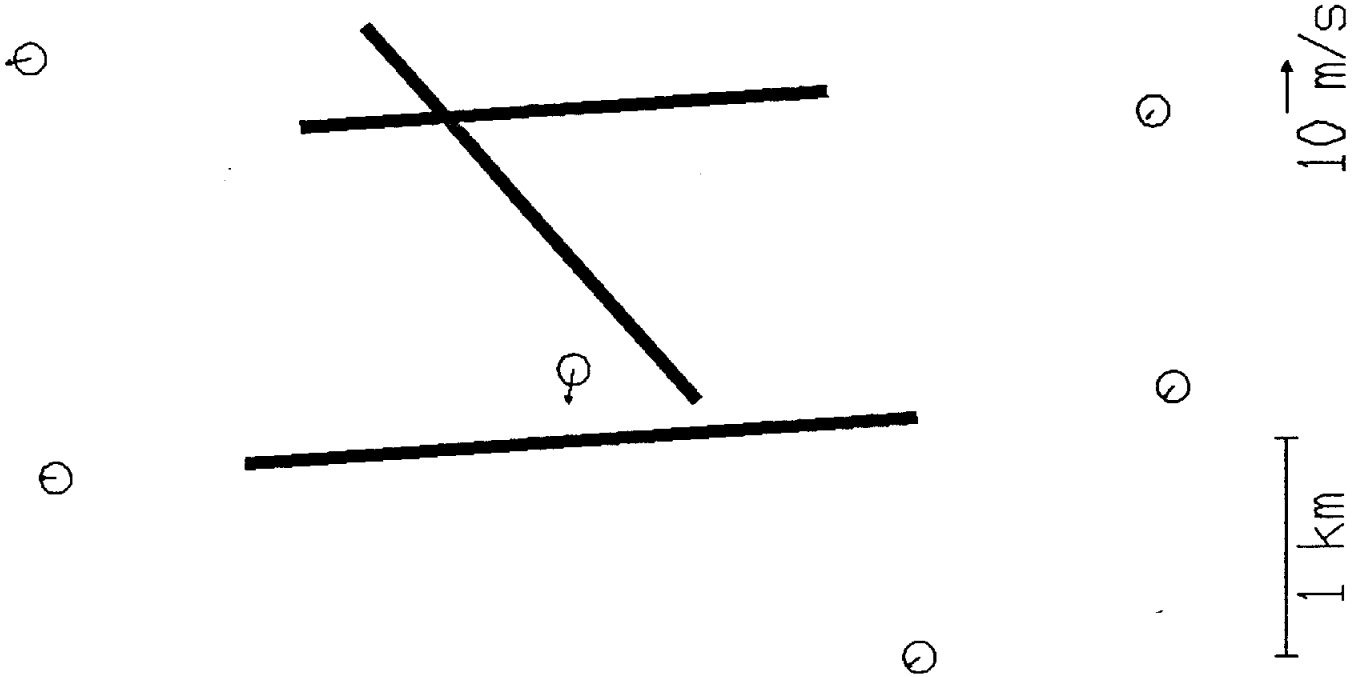
WIND VECTOR



RUNWAY



FAA TECHNICAL CENTER
7/7/94



39

CHARLOTTE INTL AIRPORT

DATE: 7/ 2/94

TIME: 22:38:37

STATION



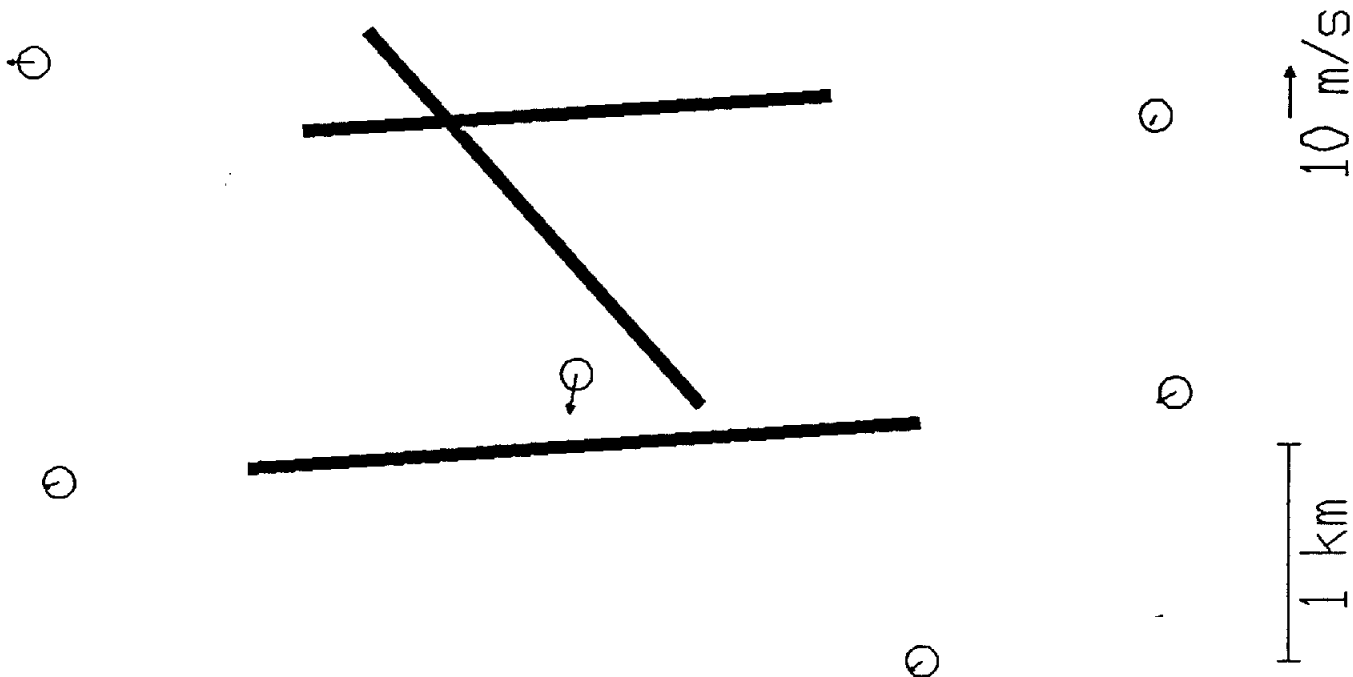
WIND VECTOR



RUNWAY



FAA TECHNICAL CENTER
7/7/94

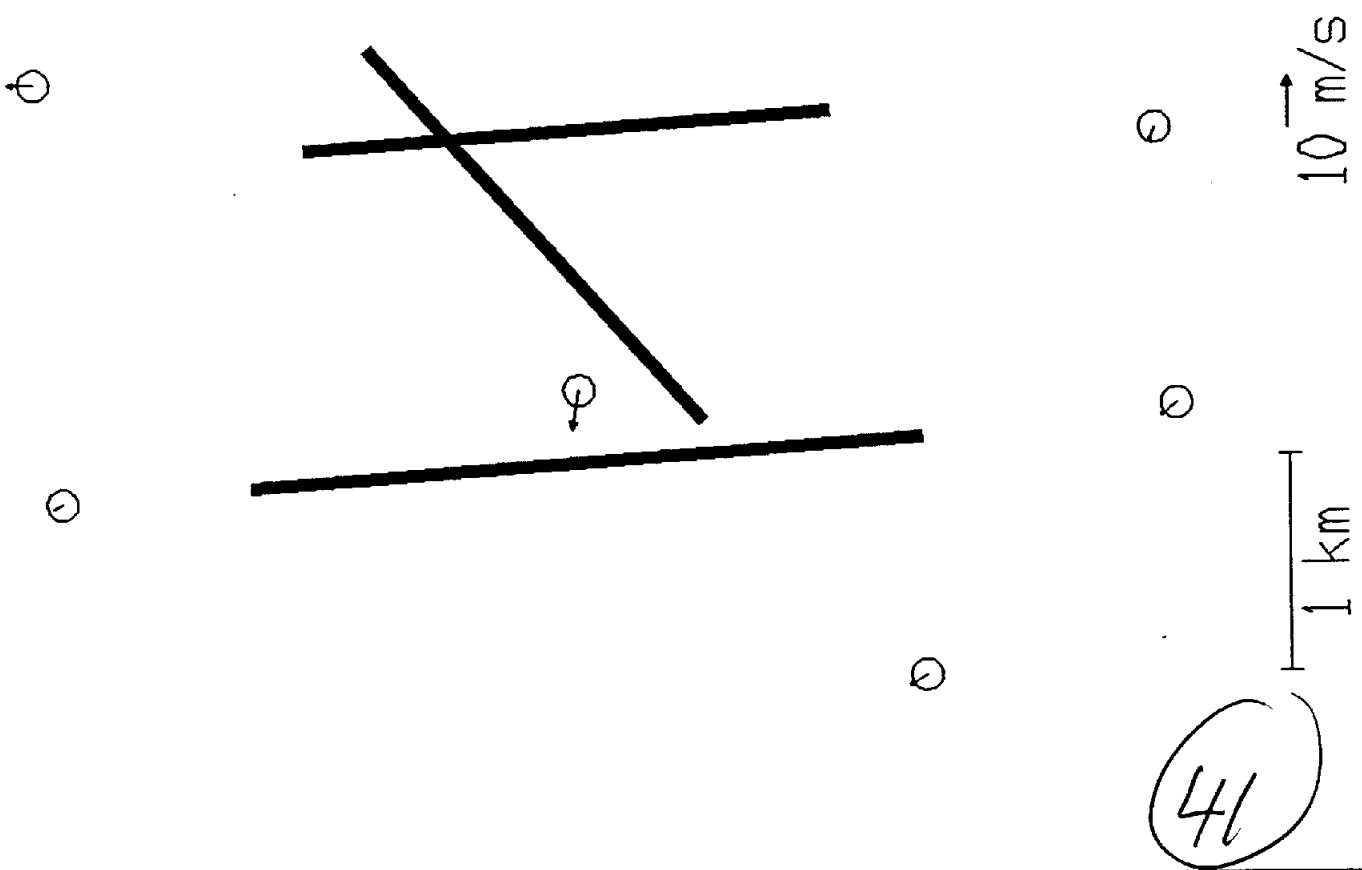


40

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:38:47

STATION ○
WIND VECTOR →
RUNWAY —

FAA TECHNICAL CENTER
7/7/94



CHARLOTTE INTL AIRPORT

DATE: 7/ 2/94

TIME: 22:38:57

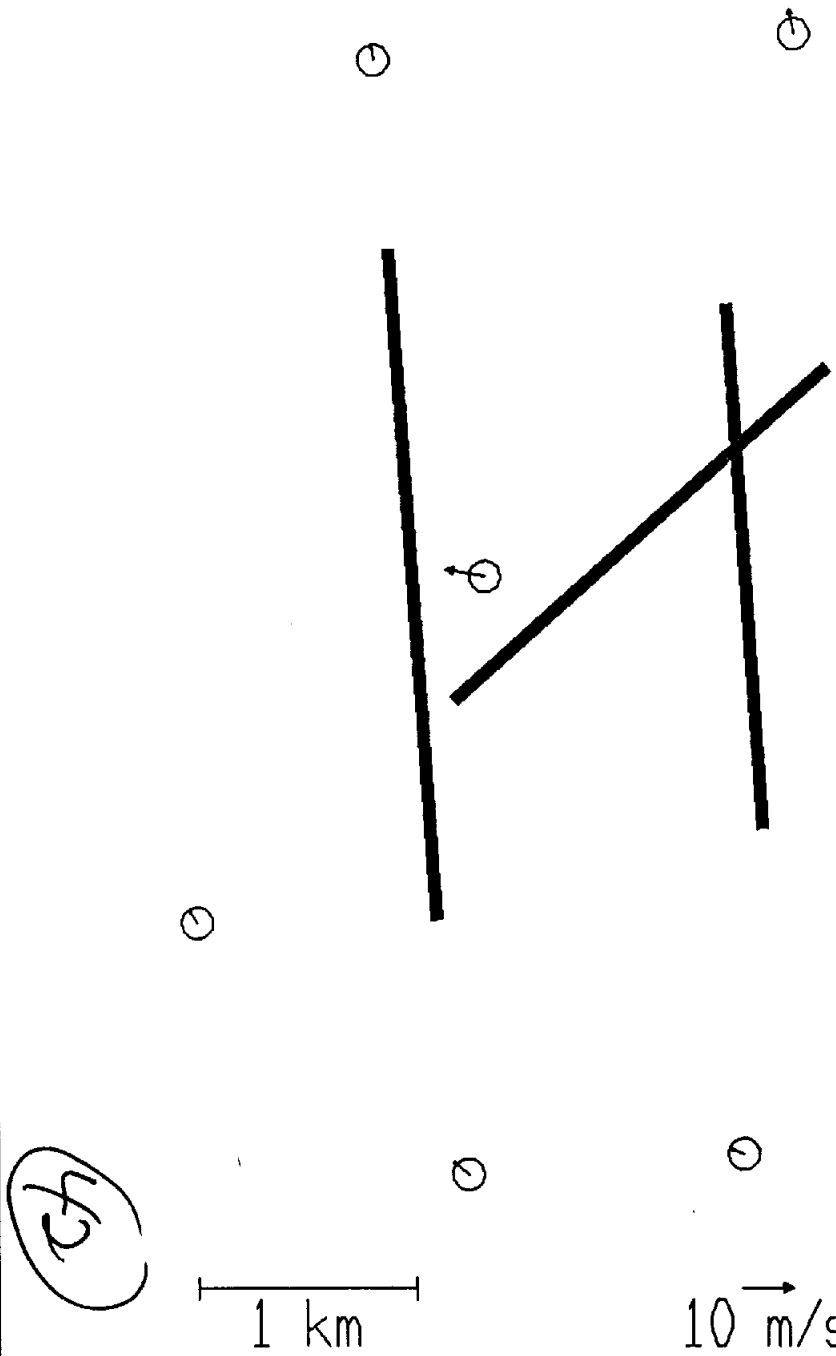
STATION



WIND VECTOR



RUNWAY



(42)

1 km

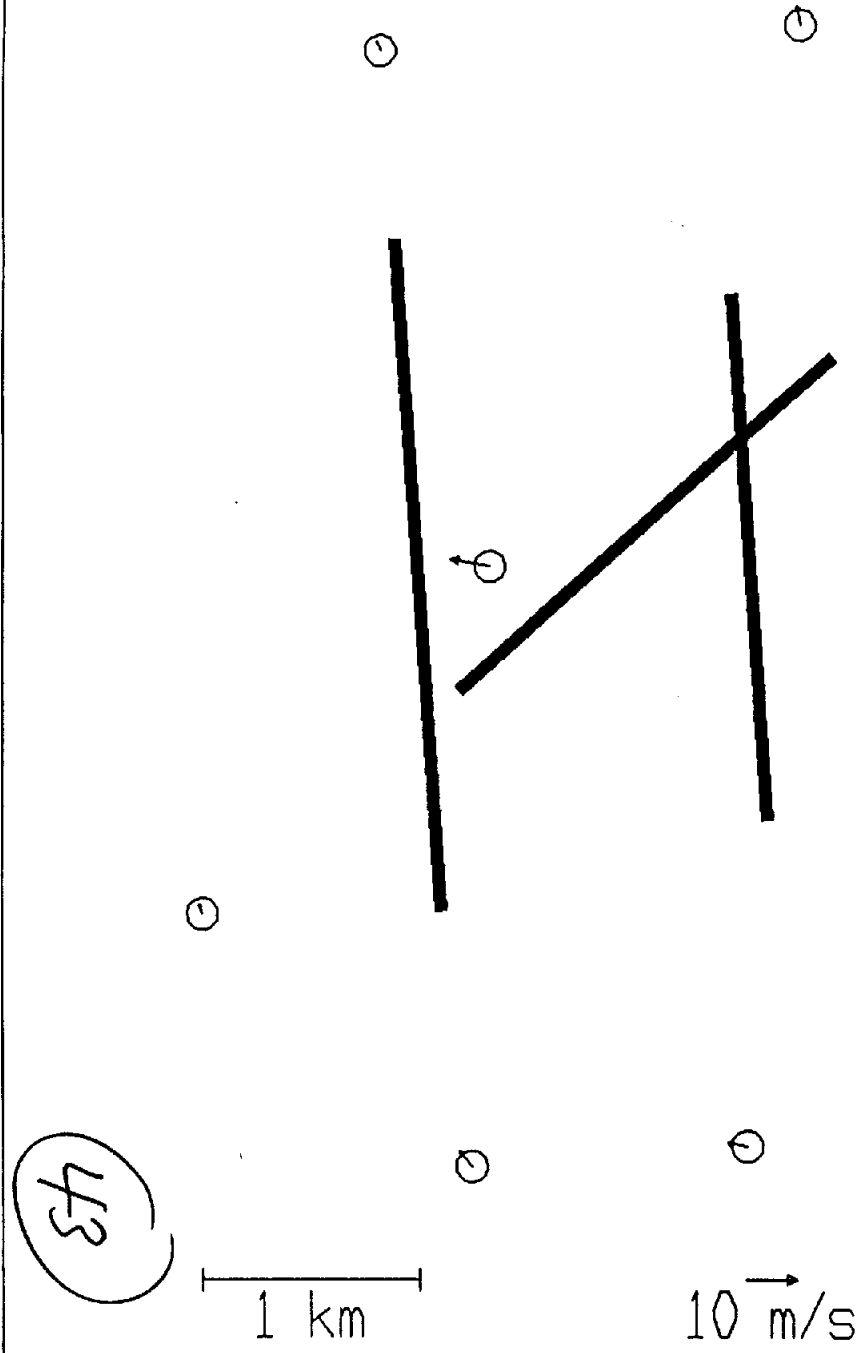
10 m/s

FAA TECHNICAL CENTER

7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:39: 7

STATION ○
WIND VECTOR →
RUNWAY ———



473

1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT

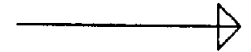
DATE: 7/ 2/94

TIME: 22:39:17

STATION



WIND VECTOR



RUNWAY



(77)

1 km

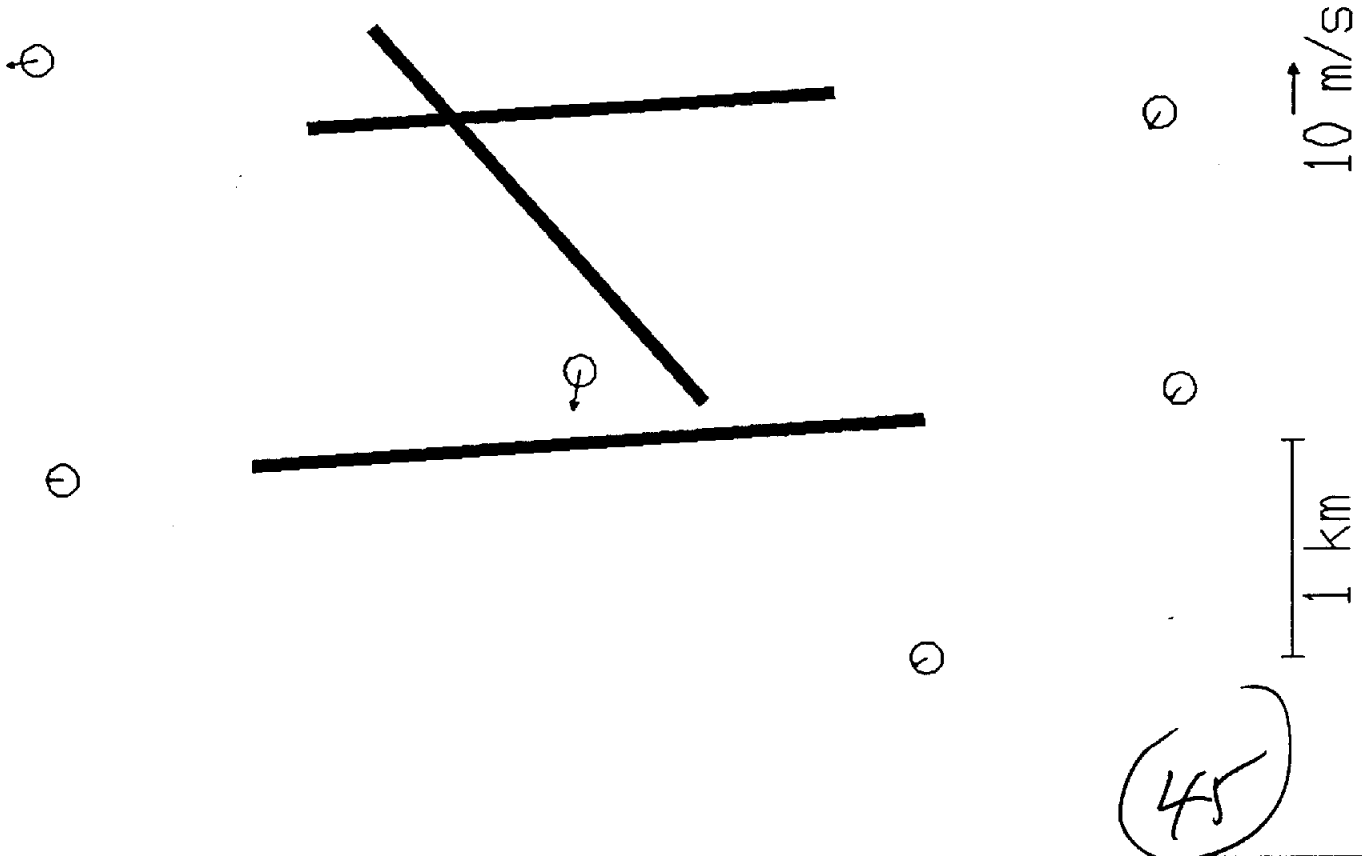
10 m/s

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:39:27

STATION ○
WIND VECTOR →
RUNWAY ———

FAA TECHNICAL CENTER
7/7/94



CHARLOTTE INTL AIRPORT

DATE: 7/ 2/94

TIME: 22:39:37

STATION



WIND VECTOR



RUNWAY



116

1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT

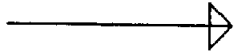
DATE: 7/ 2/94

TIME: 22:39:47

STATION



WIND VECTOR



RUNWAY



477

1 km

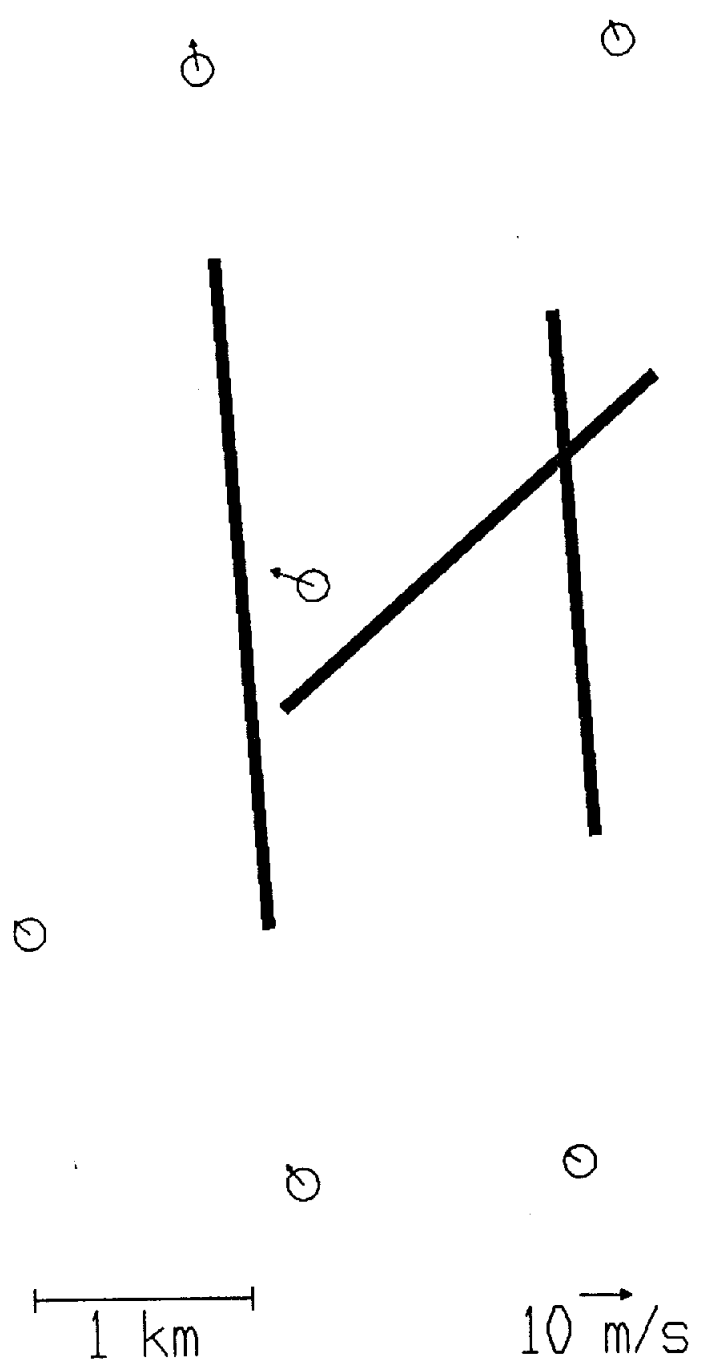
10 $\vec{m/s}$

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:39:57

STATION ○
WIND VECTOR →
RUNWAY ———

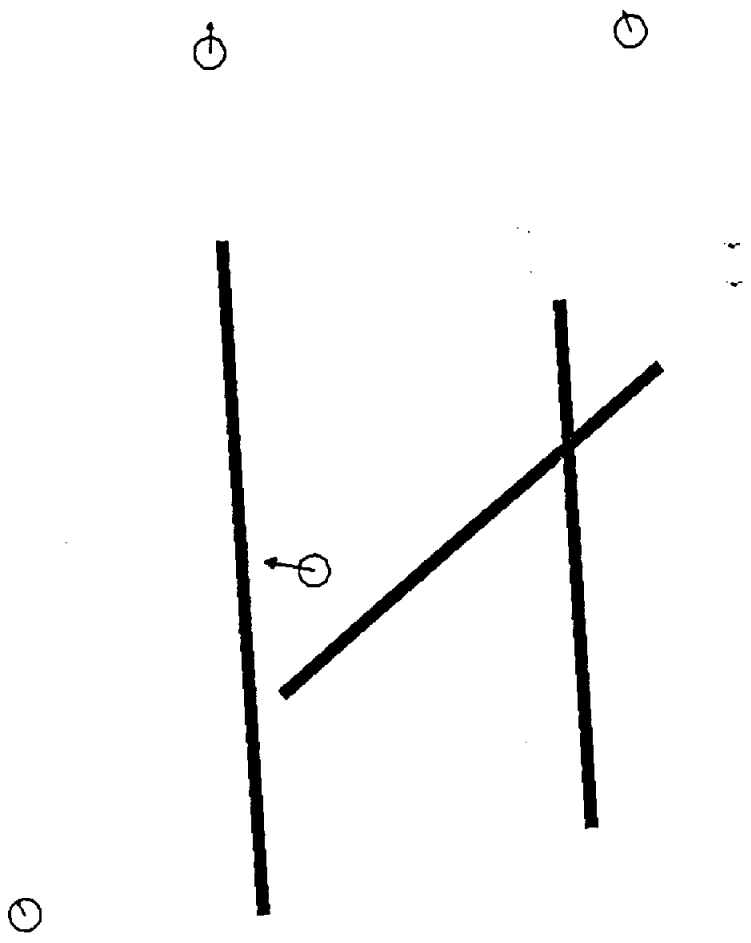
413



FAA TECHNICAL CENTER
7/7/94

CHATTANOOGA INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:40: 7

STATION ○
WIND VECTOR →
RUNWAY **—————**



677

1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94

DATE: 7/ 2/94
TIME: 22:40:17

STATION



WIND VECTOR



RUNWAY

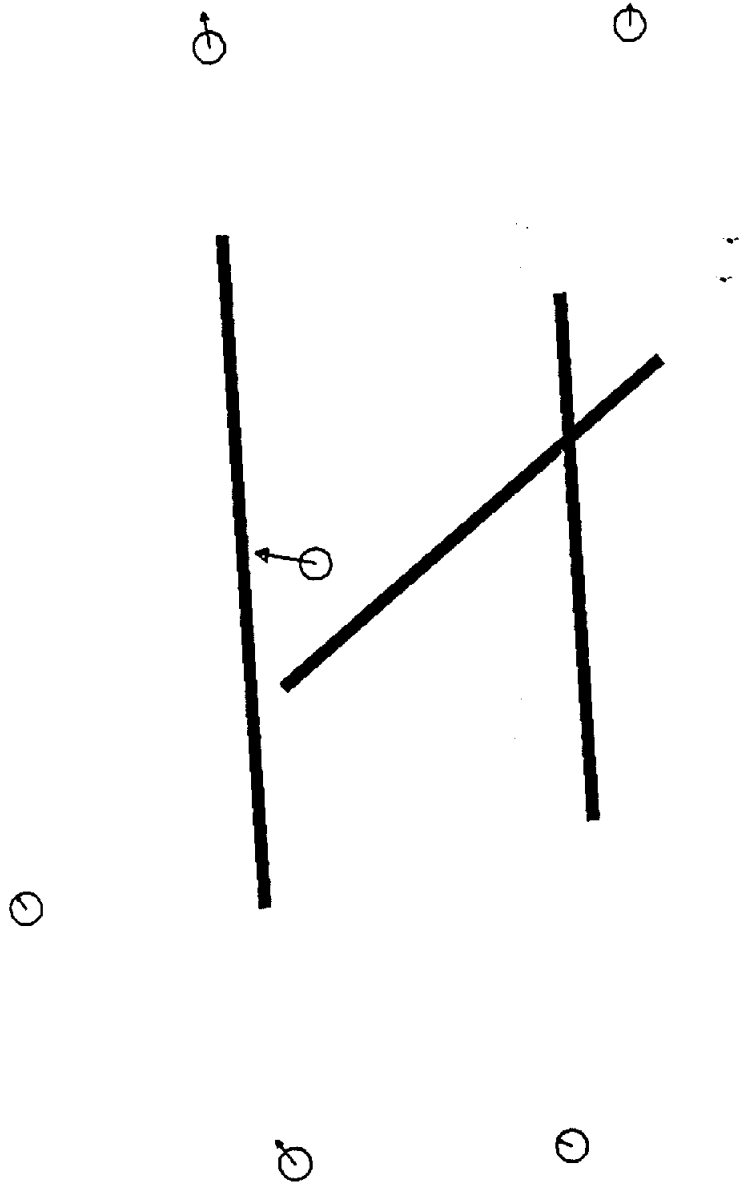


50

1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94



CHARLOTTE INTL AIRPORT

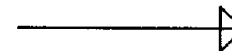
DATE: 7/ 2/94

TIME: 22:40:27

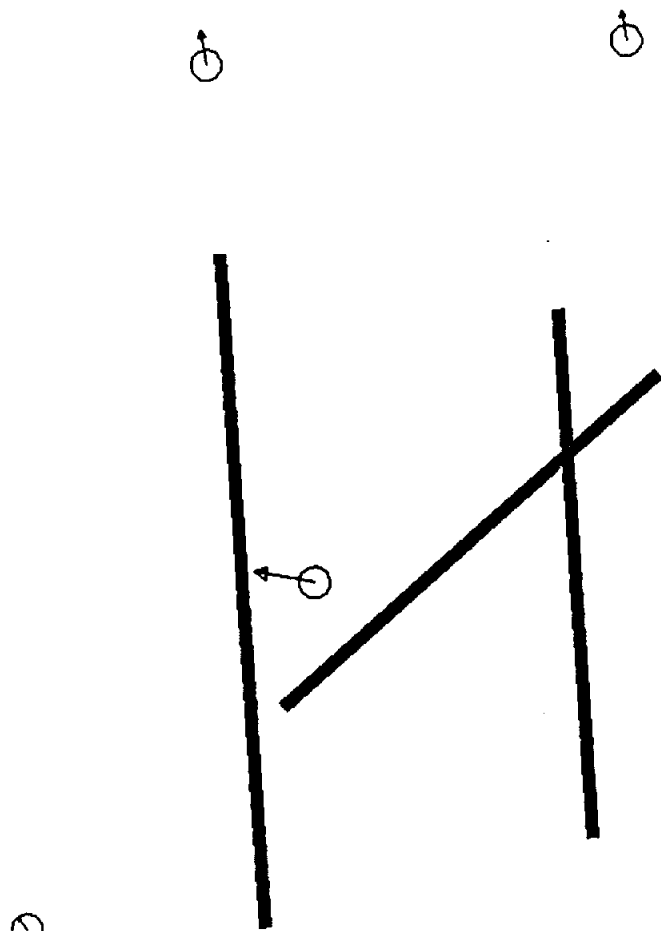
STATION



WIND VECTOR



RUNWAY



57

1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT

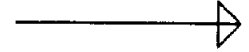
DATE: 7/ 2/94

TIME: 22:40:37

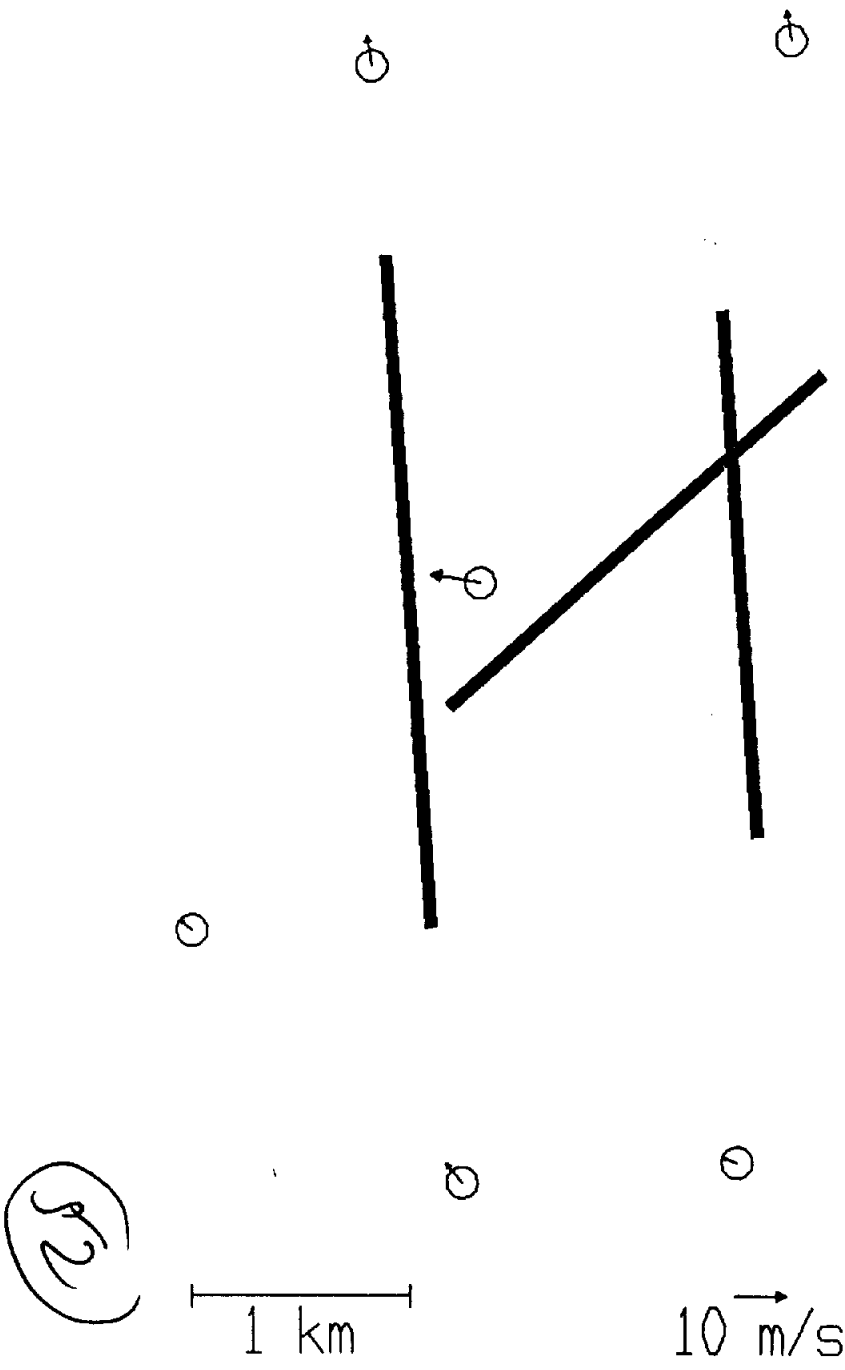
STATION



WIND VECTOR



RUNWAY



FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT

DATE: 7/ 2/94

TIME: 22:40:47

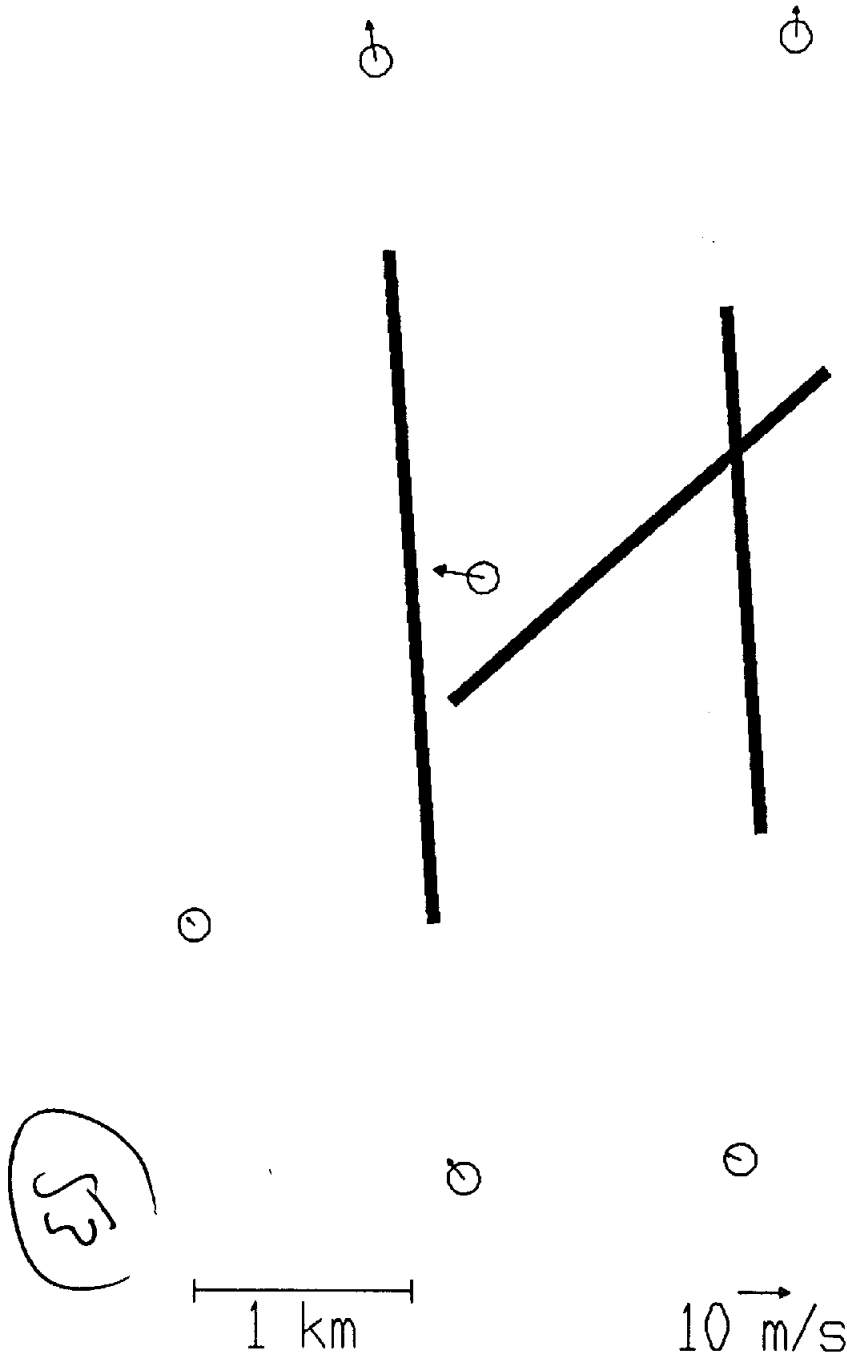
STATION



WIND VECTOR



RUNWAY



FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT
DATE: 7/ 2/94
TIME: 22:40:57

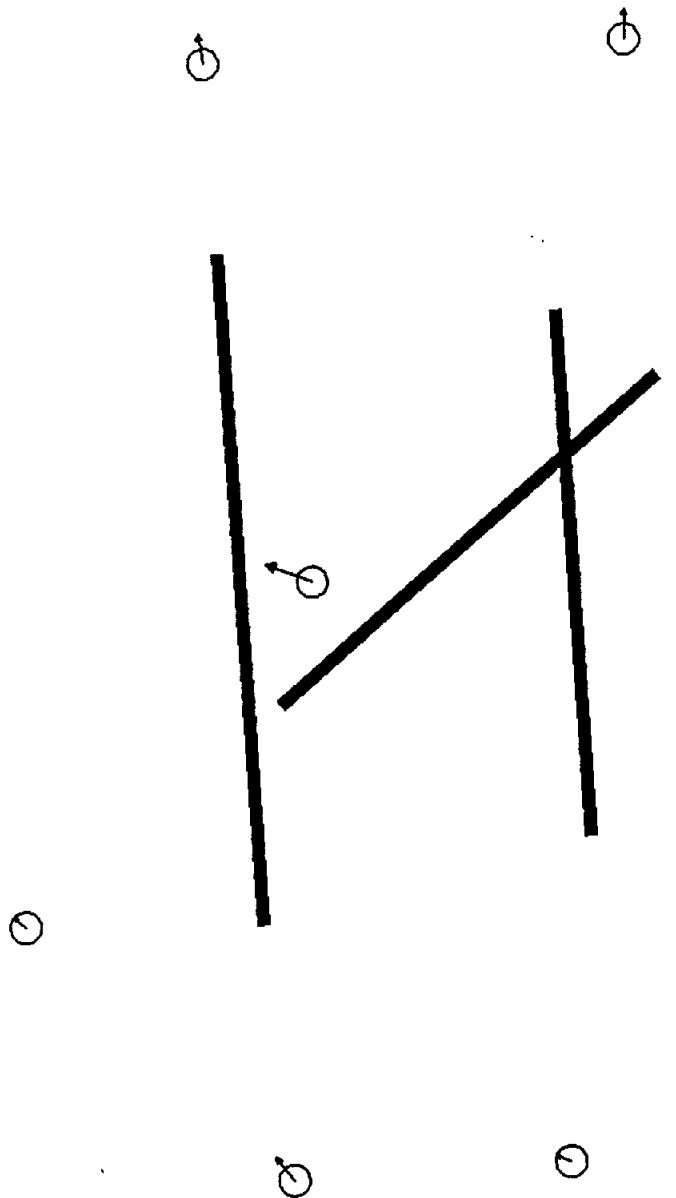
STATION



WIND VECTOR



RUNWAY



74

1 km

10 m/s

FAA TECHNICAL CENTER
7/7/94

CHARLOTTE INTL AIRPORT

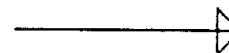
DATE: 7/ 2/94

TIME: 22:41: 7

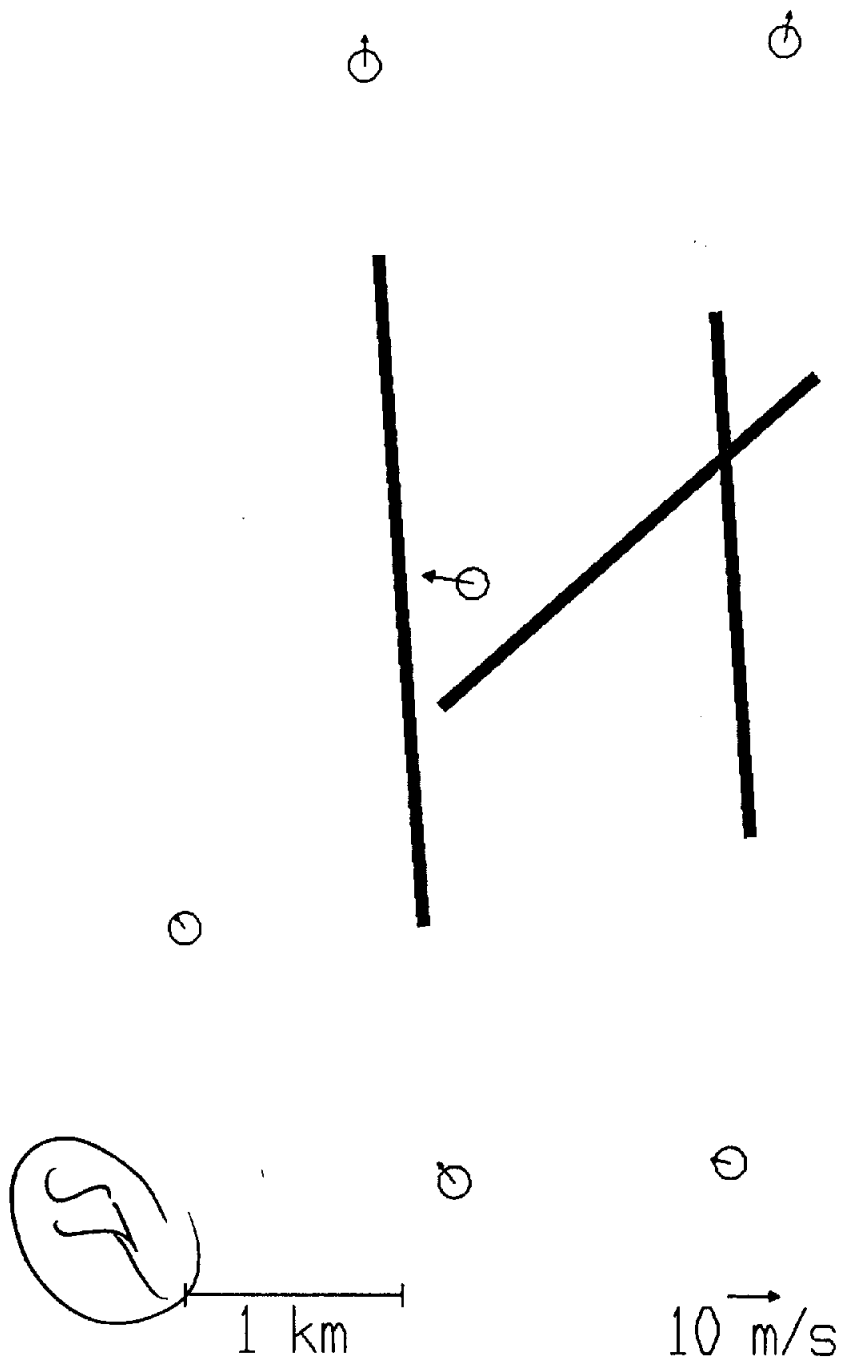
STATION



WIND VECTOR



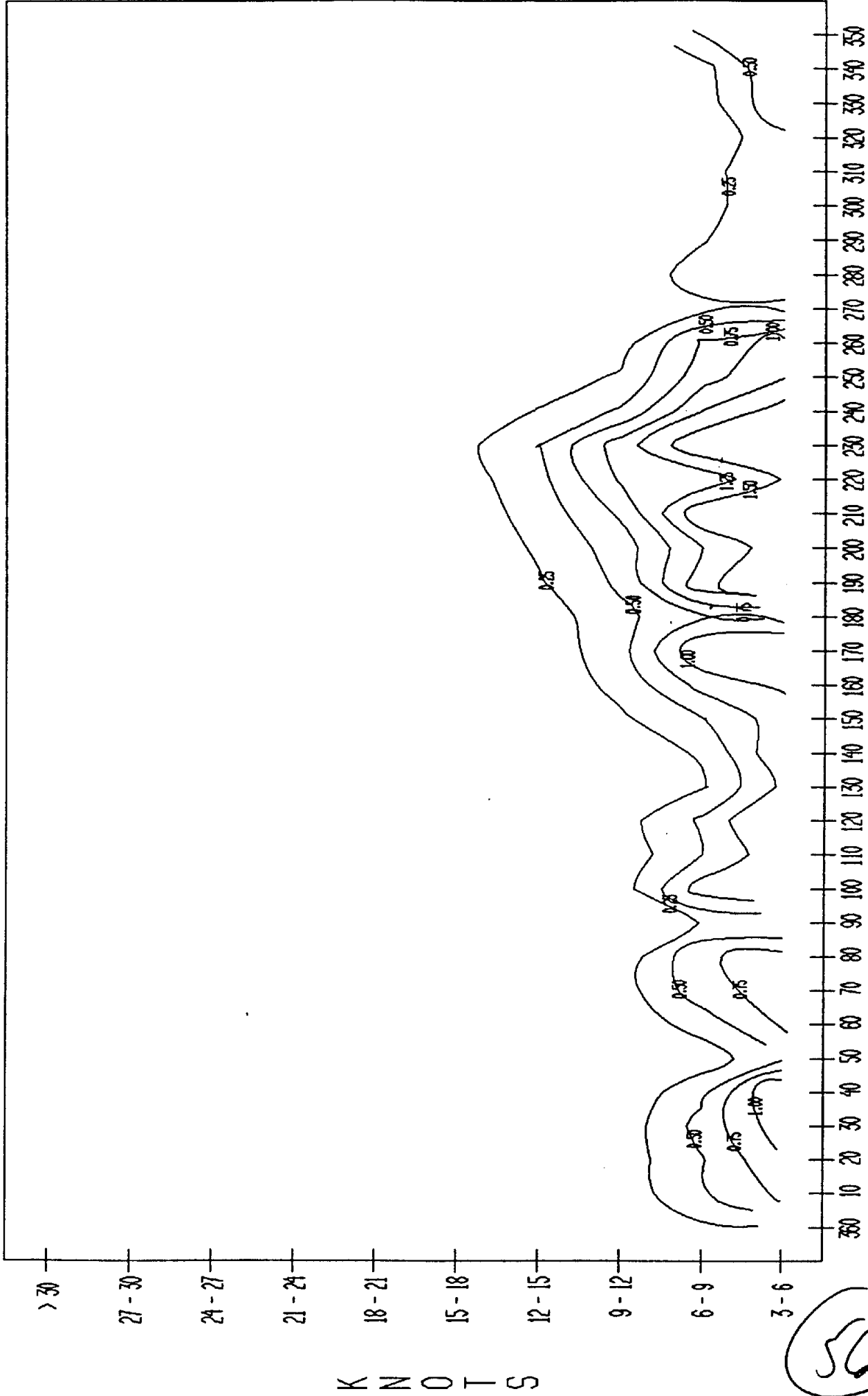
RUNWAY



FAA TECHNICAL CENTER
7/7/94

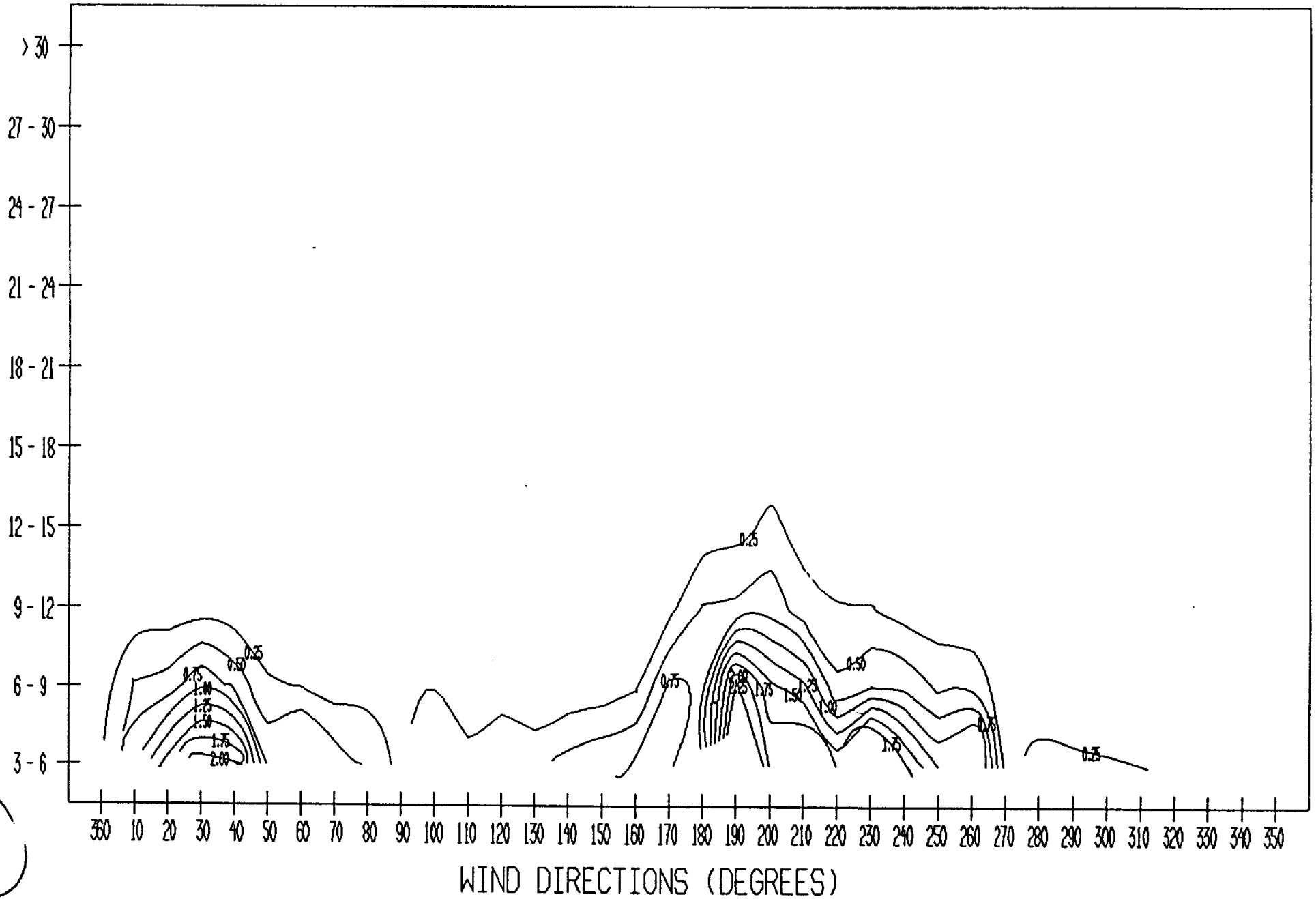
AIRPORT ID: CLT
SENSOR: 1

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24



AIRPORT ID: CLT
SENSOR: 2

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24

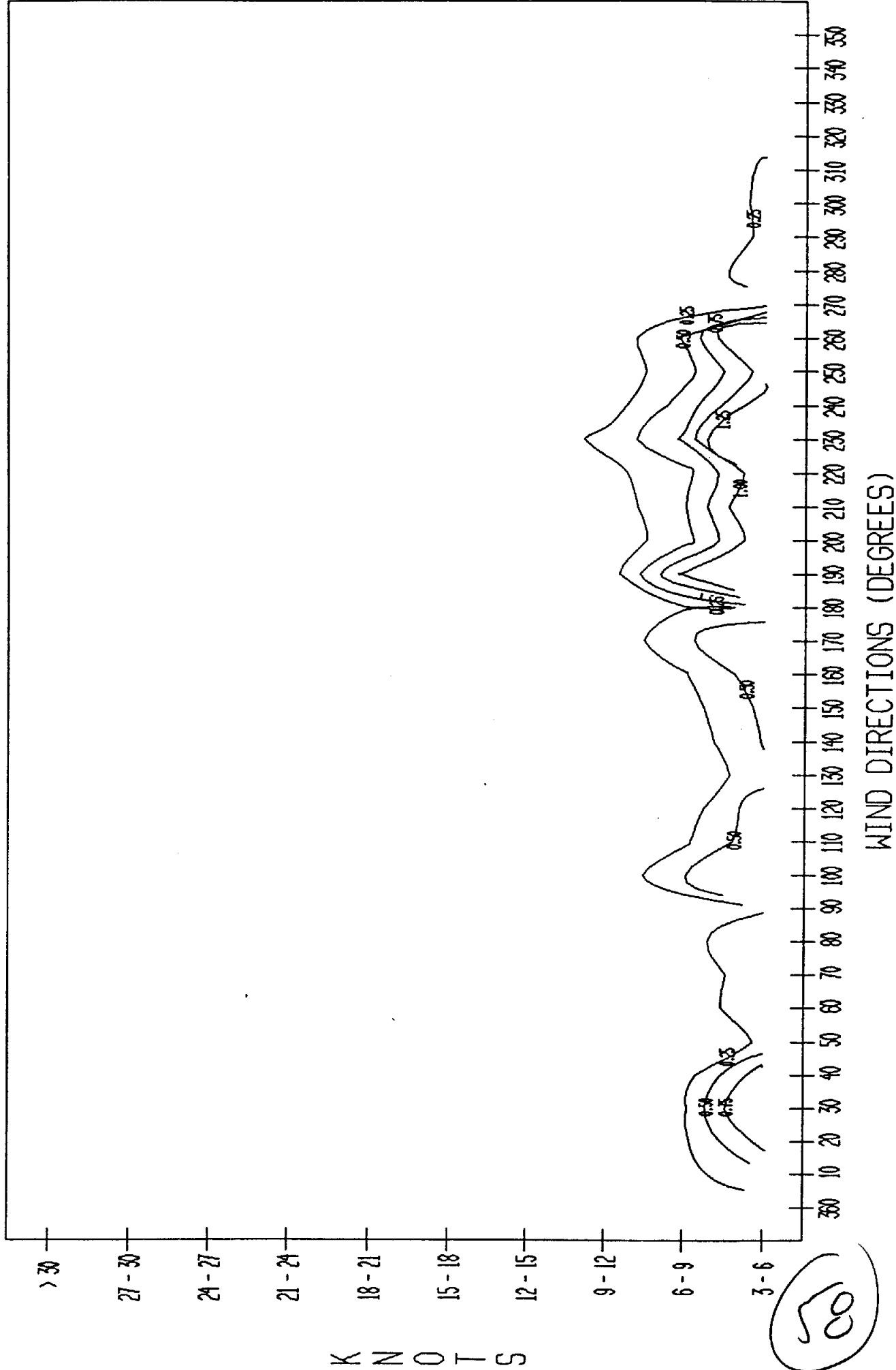


WIND FREQUENCY DISTRIBUTION (PERCENT)

PERCENT CALM: 44.9%

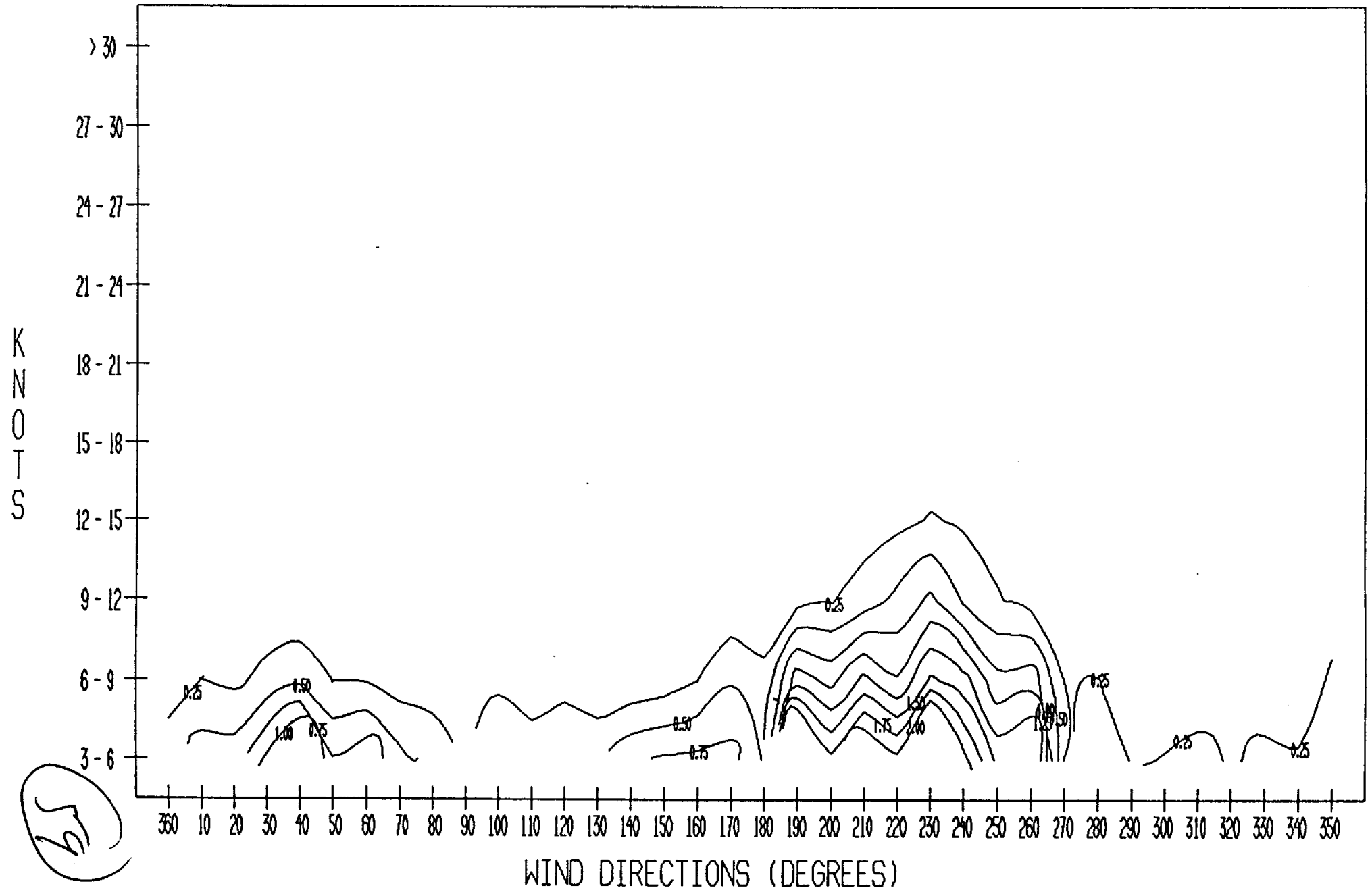
AIRPORT ID: CLT
SENSOR: 3

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24



AIRPORT ID: CLT
SENSOR: 4

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24

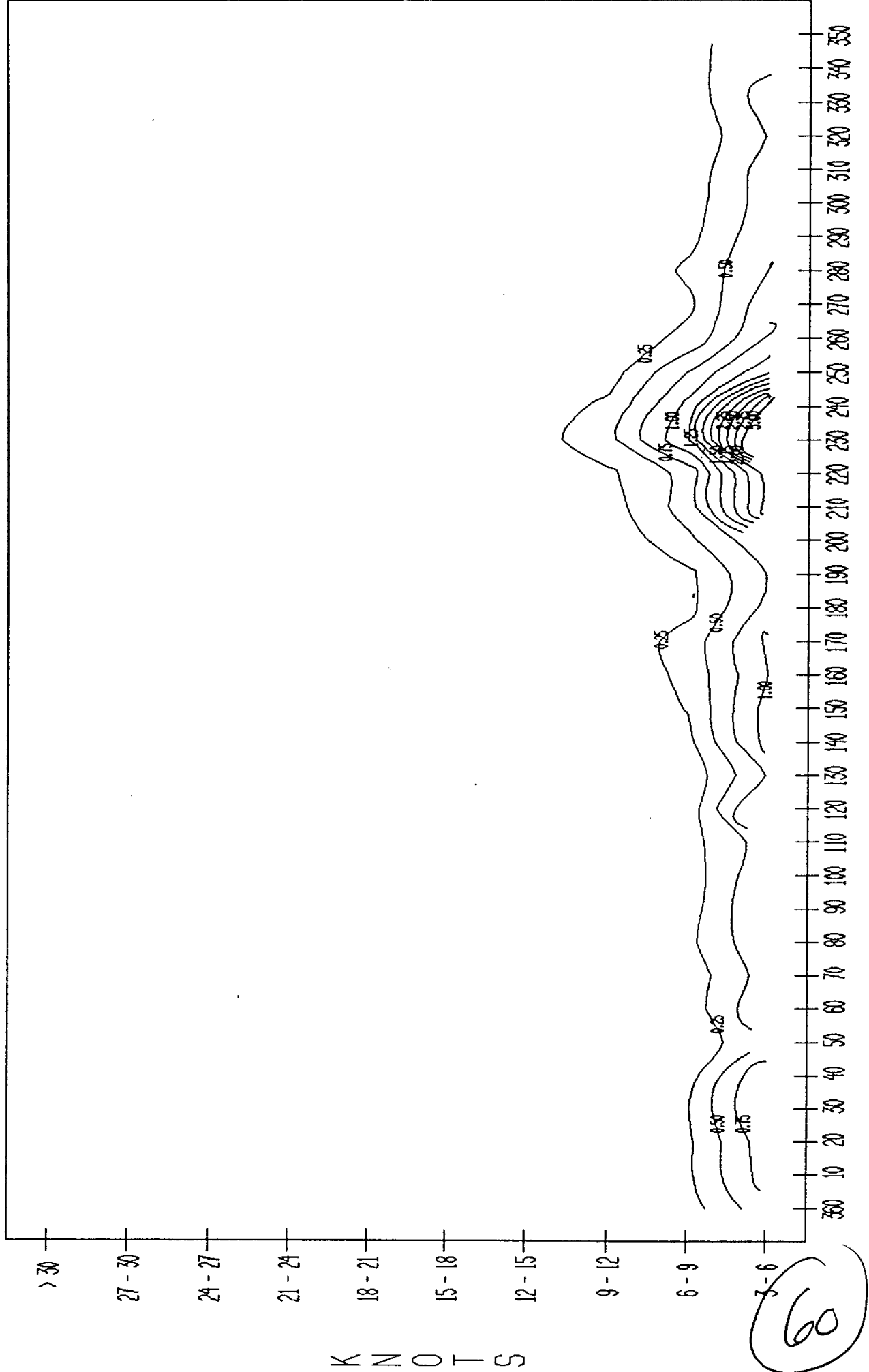


WIND FREQUENCY DISTRIBUTION (PERCENT)

PERCENT CALM: 45.9%

AIRPORT ID: CLT
SENSOR: 5

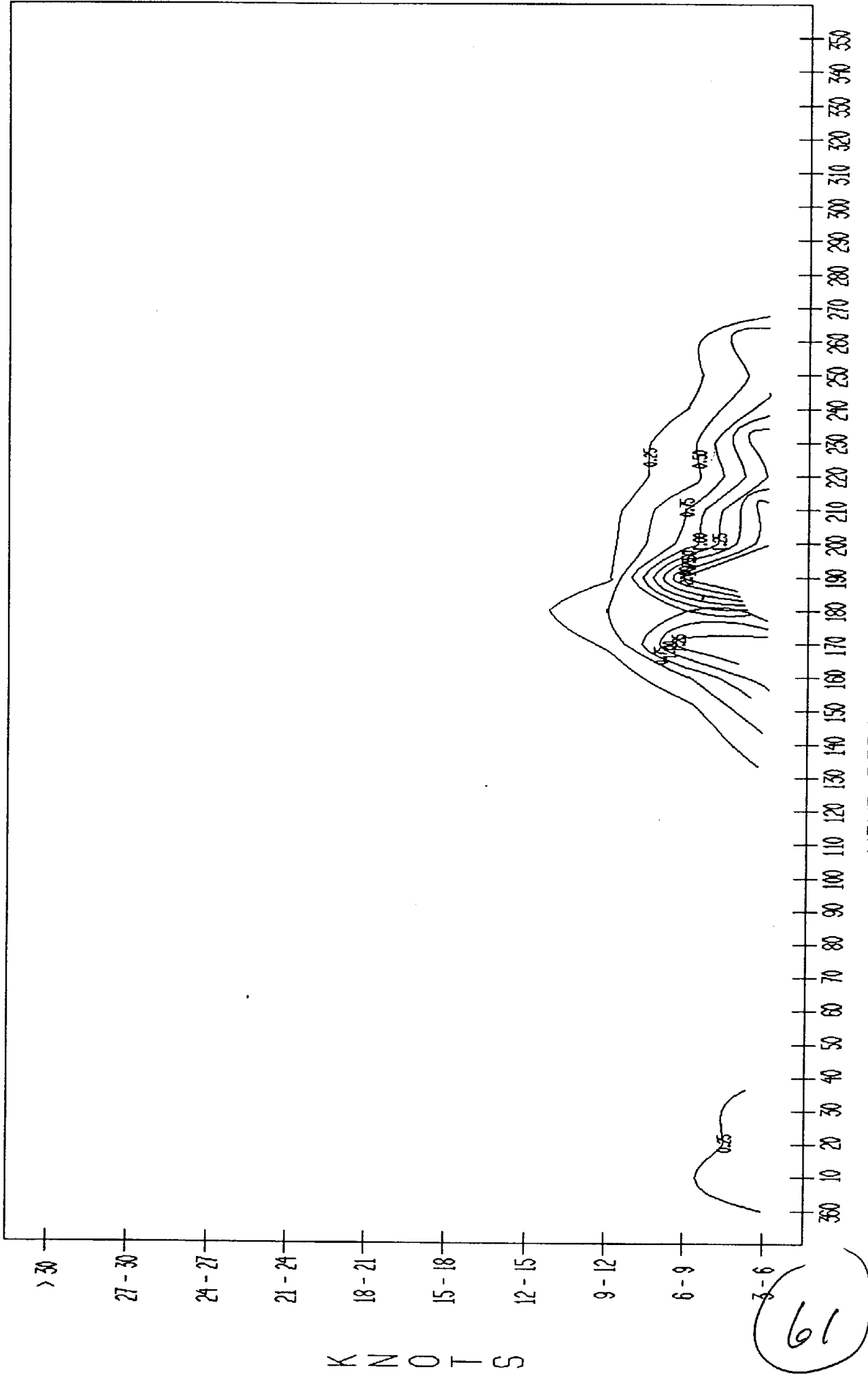
FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24

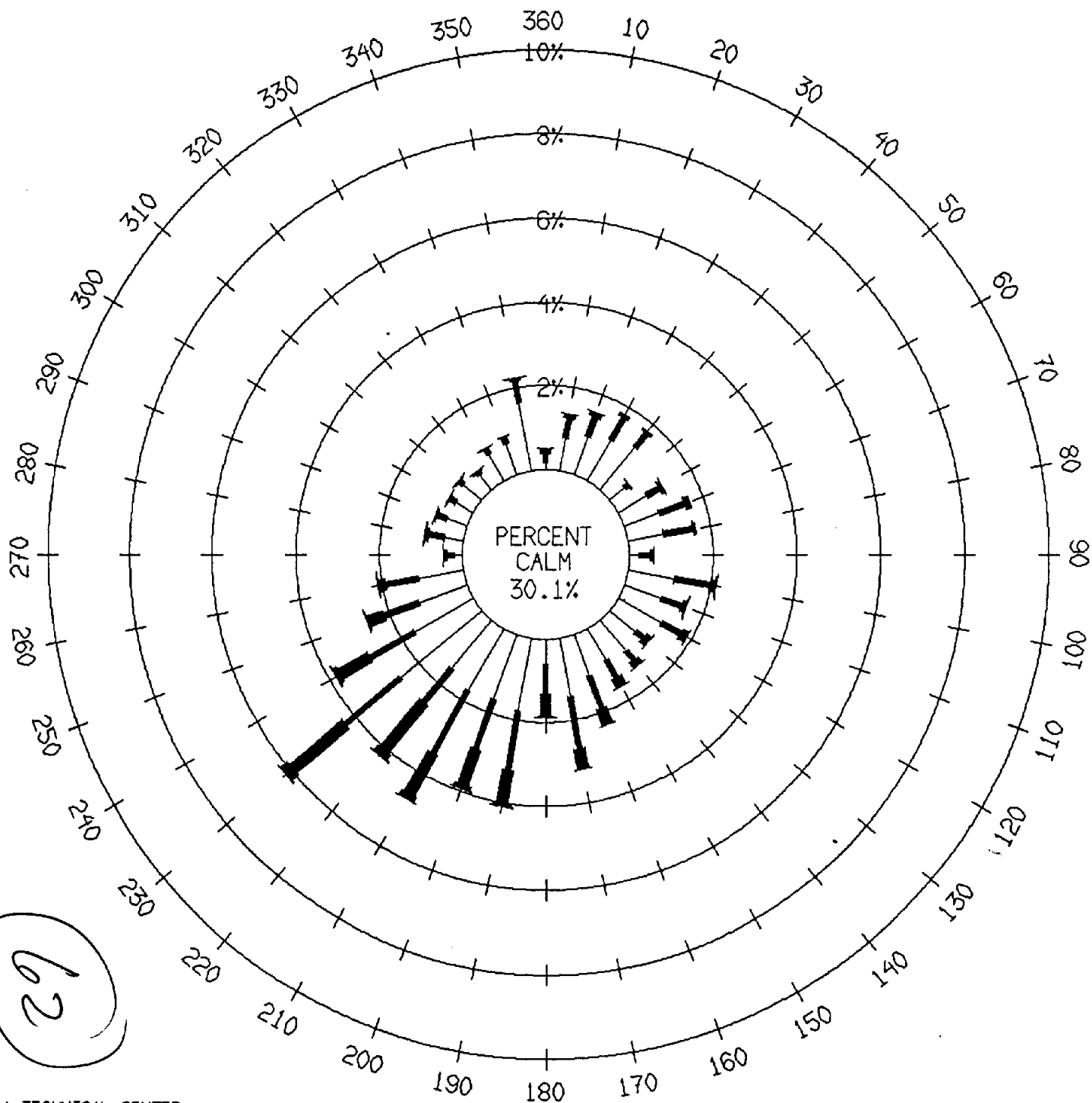


WIND FREQUENCY DISTRIBUTION (PERCENT)

AIRPORT ID: CLT
SENSOR: 6

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24





62

AIRPORT ID: CLT
SENSOR: 1

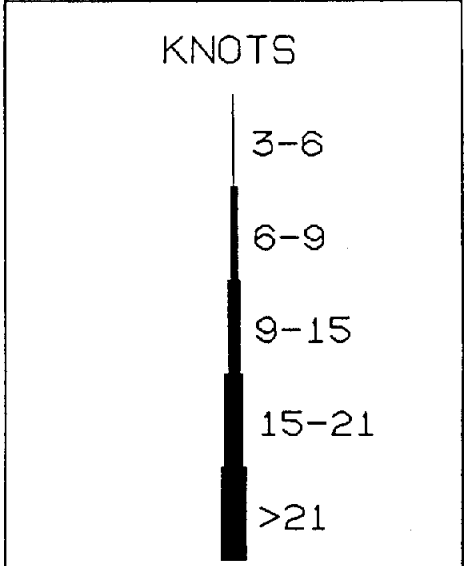
FROM:
06/01/94 00:00:09

TO:
07/01/94 23:59:53

HOURS: 0 TO 24

FAILURES

% HARD: 0.00
% TRANS: 0.00
% TOTAL: 0.00



AIRPORT ID: CLT

SENSOR: 2

FROM:
06/01/94 00:00:09

TO:
07/01/94 23:59:53

HOURS: 0 TO 24

FAILURES

% HARD: 0.01

% TRANS: 0.01

% TOTAL: 0.02

KNOTS

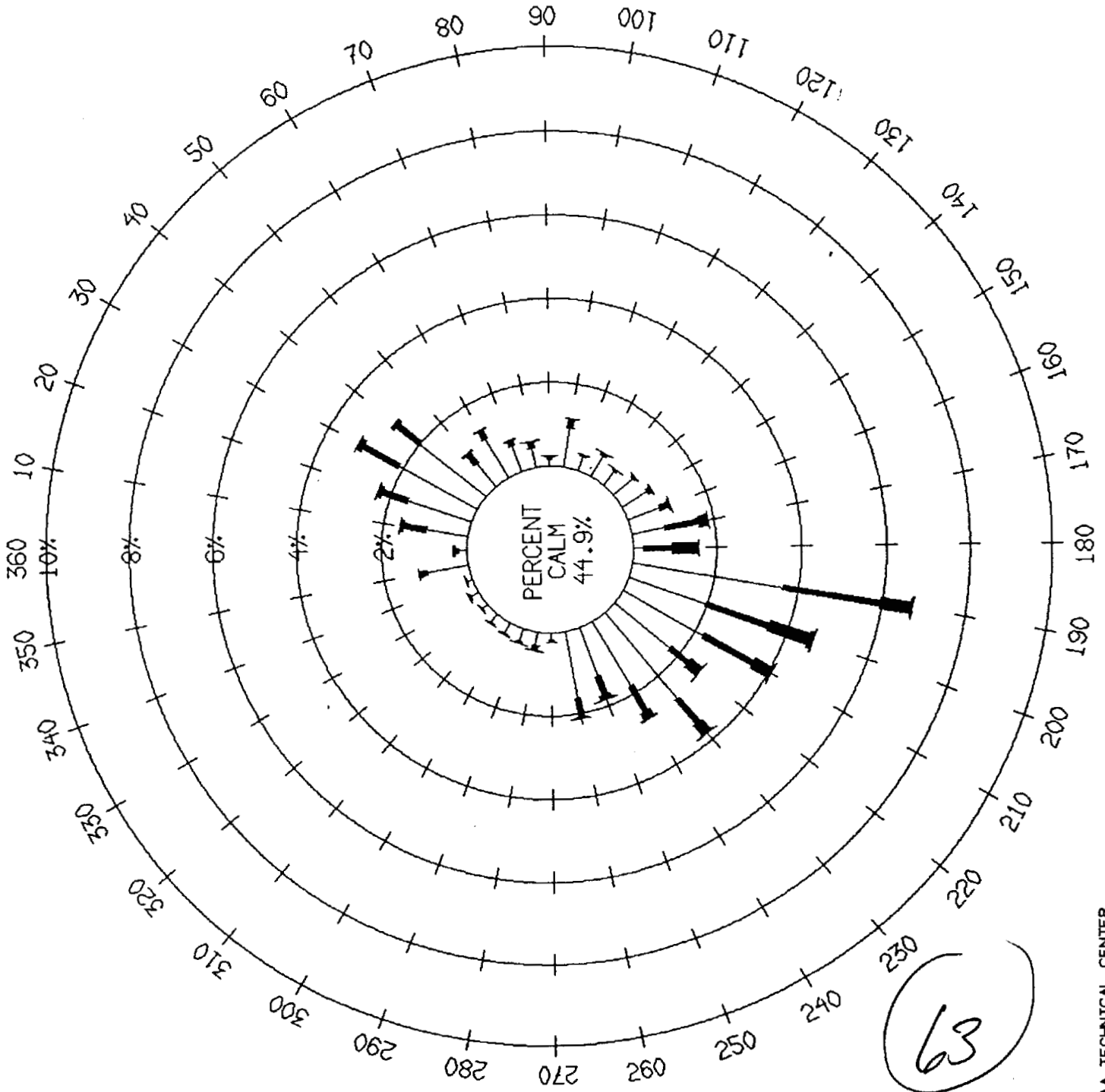
3-6

6-9

9-15

15-21

>21



AIRPORT ID: CLT

SENSOR: 3

FROM:
06/01/94 00:00:09

TO:
07/01/94 23:59:53

HOURS: 0 TO 24

FAILURES

% HARD: 0.85

% TRANS: 0.00

% TOTAL: 0.85

KNOTS

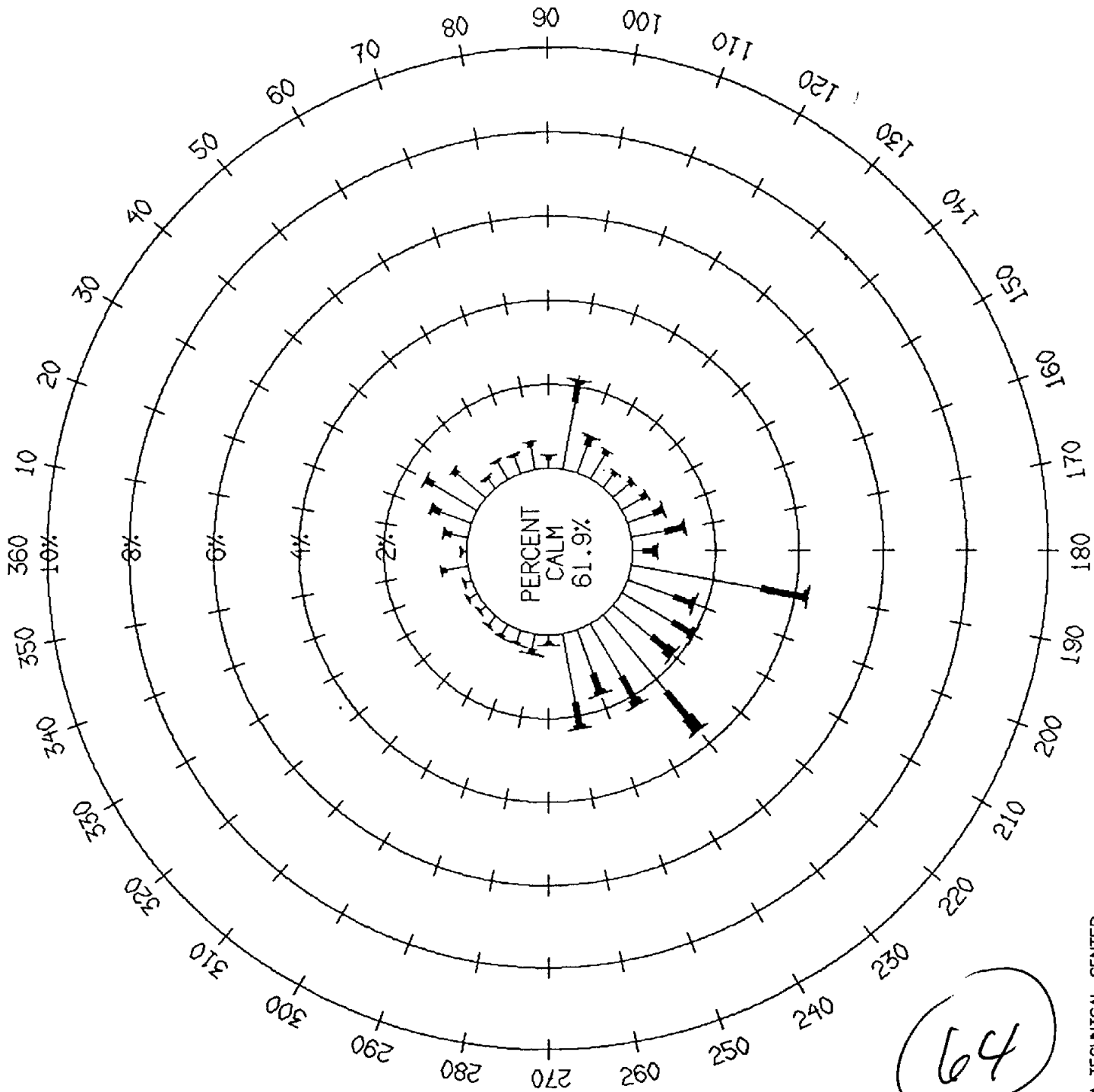
3-6

6-9

9-15

15-21

>21



64

AIRPORT ID: CLT

SENSOR: 4

FROM:
06/01/94 00:00:09

TO:
07/01/94 23:59:53

HOURS: 0 TO 24

FAILURES

% HARD: 0.00

% TRANS: 0.00

% TOTAL: 0.00

KNOTS

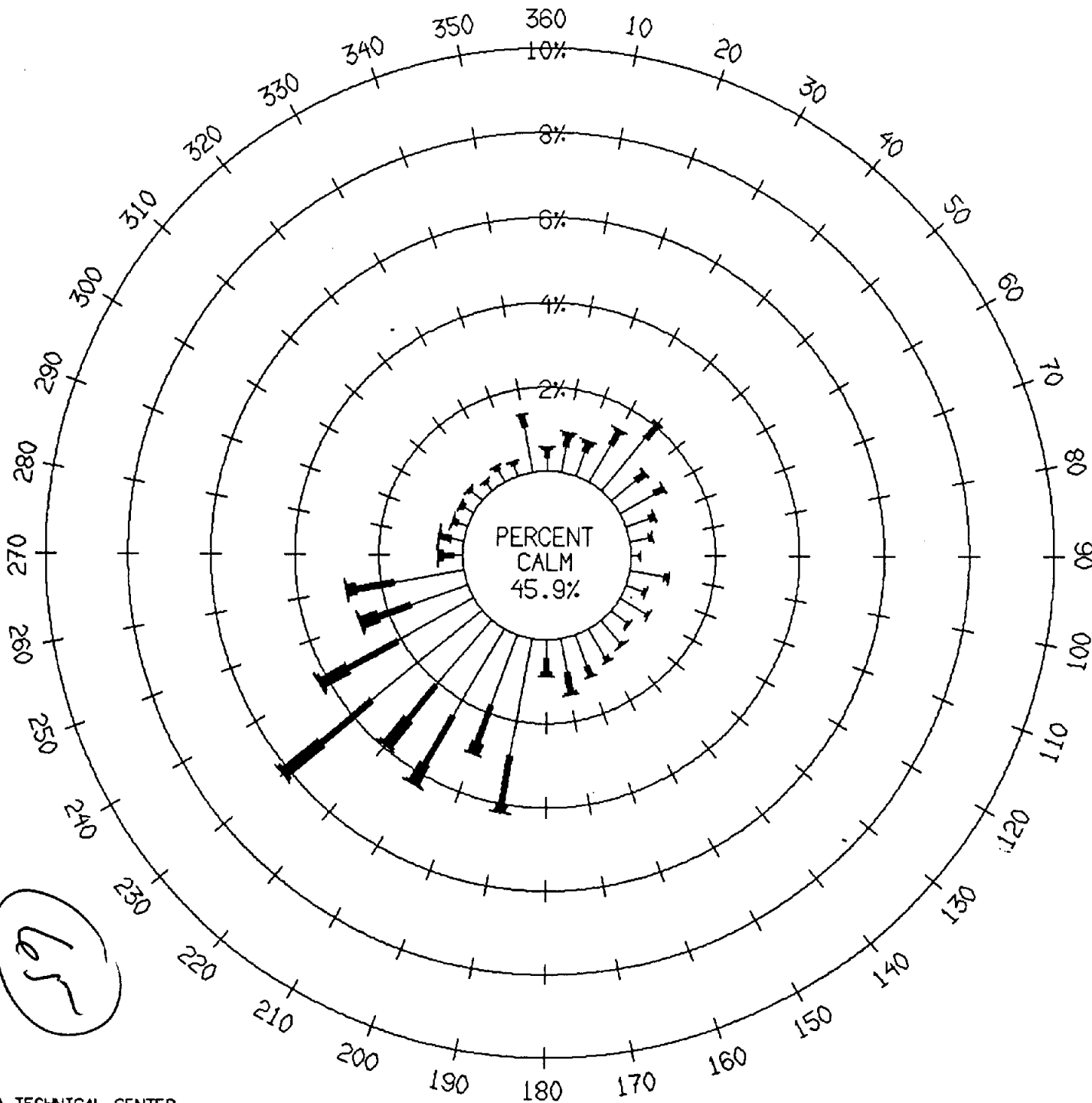
3-6

6-9

9-15

15-21

>21



65

AIRPORT ID: CLT

SENSOR: 5

FROM:
06/01/94 00:00:09

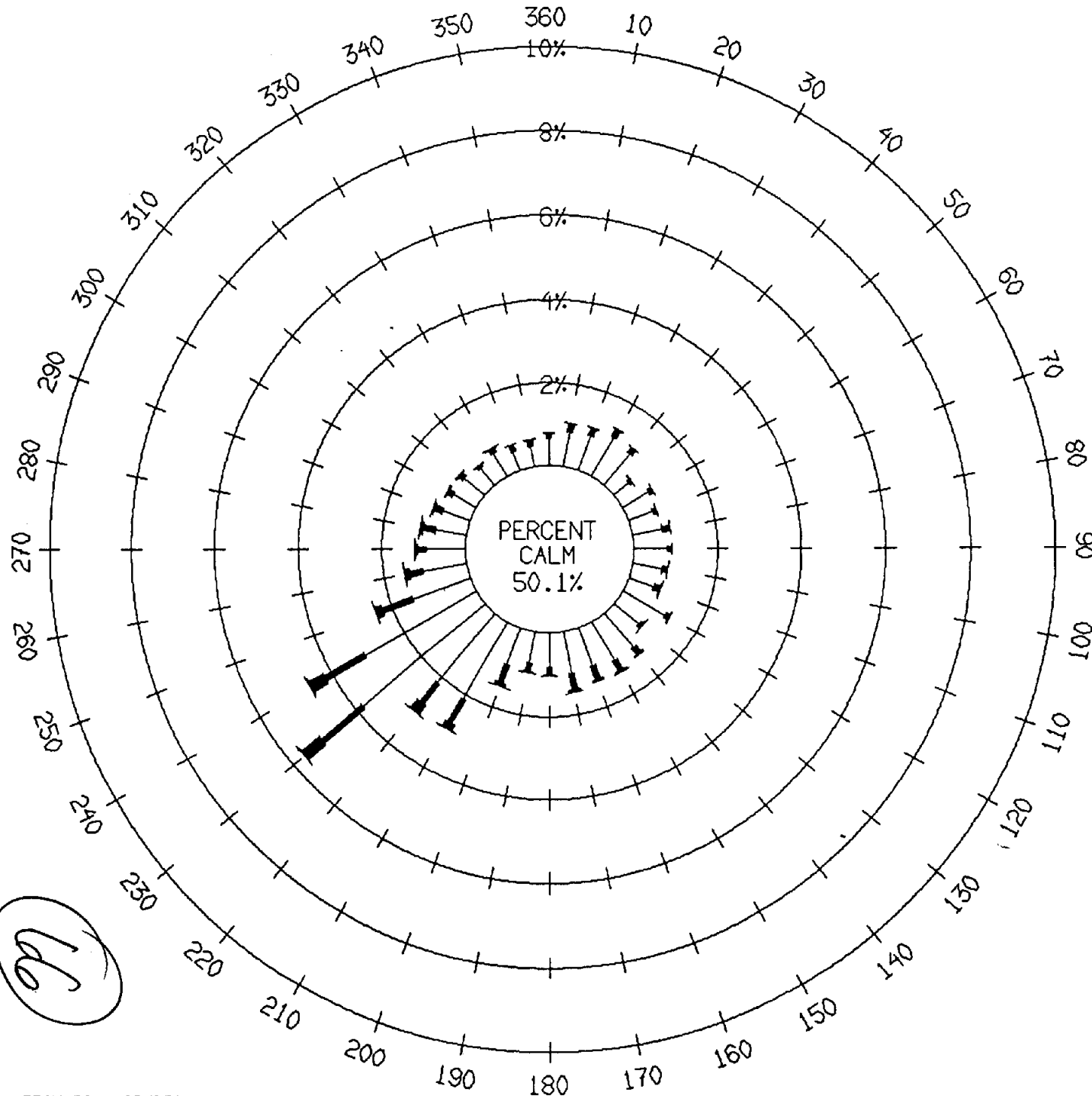
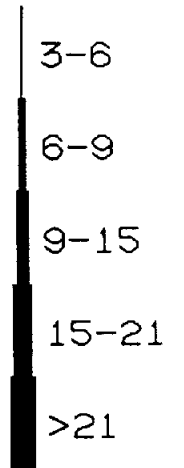
TO:
07/01/94 23:59:53

HOURS: 0 TO 24

FAILURES

% HARD: 0.00
% TRANS: 0.00
% TOTAL: 0.00

KNOTS



66

AIRPORT ID: CLT

SENSOR: 6

FROM:
06/01/94 00:00:09

TO:
07/01/94 23:59:53

HOURS: 0 TO 24

FAILURES

% HARD: 0.00

% TRANS: 0.00

% TOTAL: 0.00

KNOTS

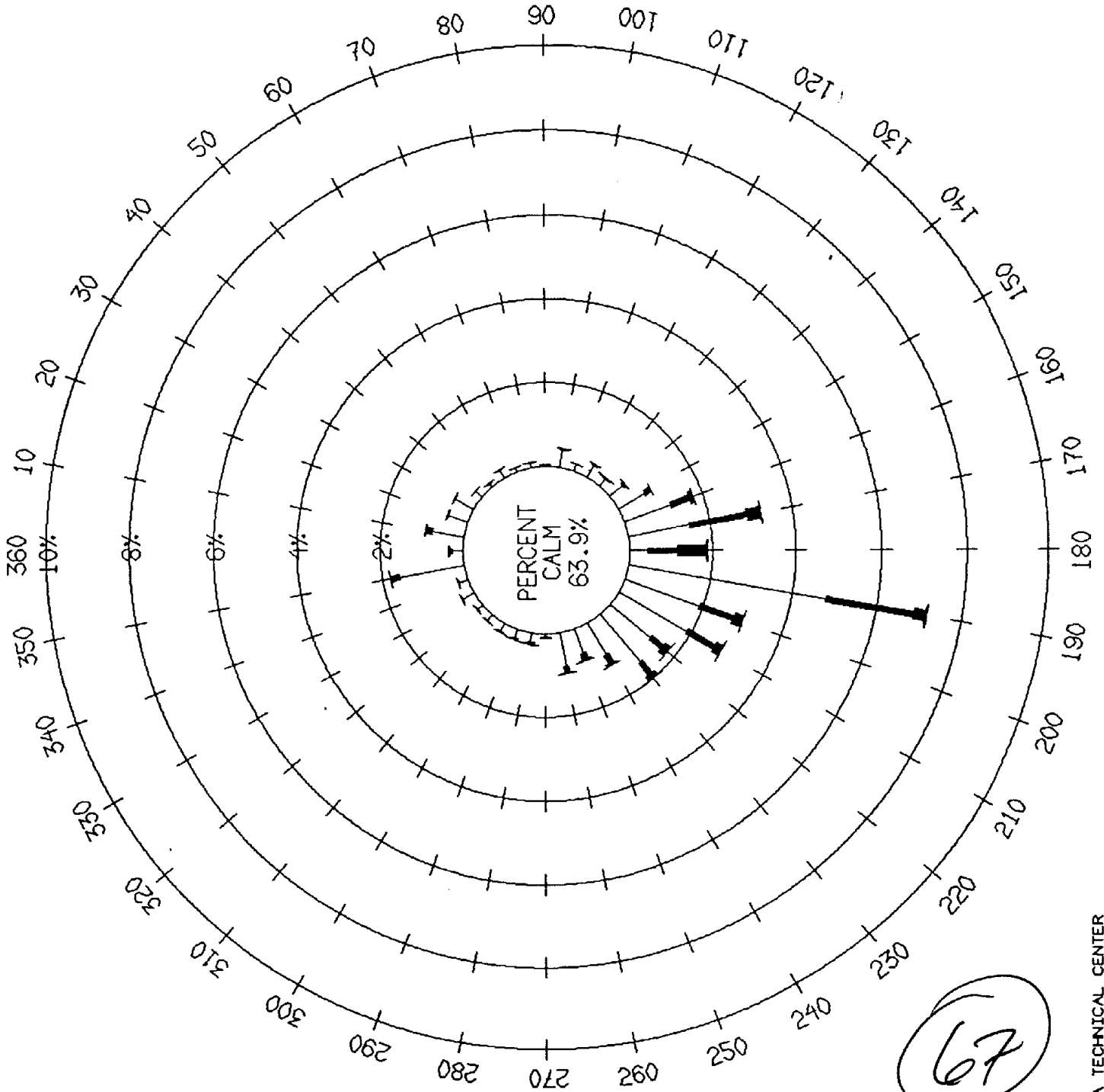
3-6

6-9

9-15

15-21

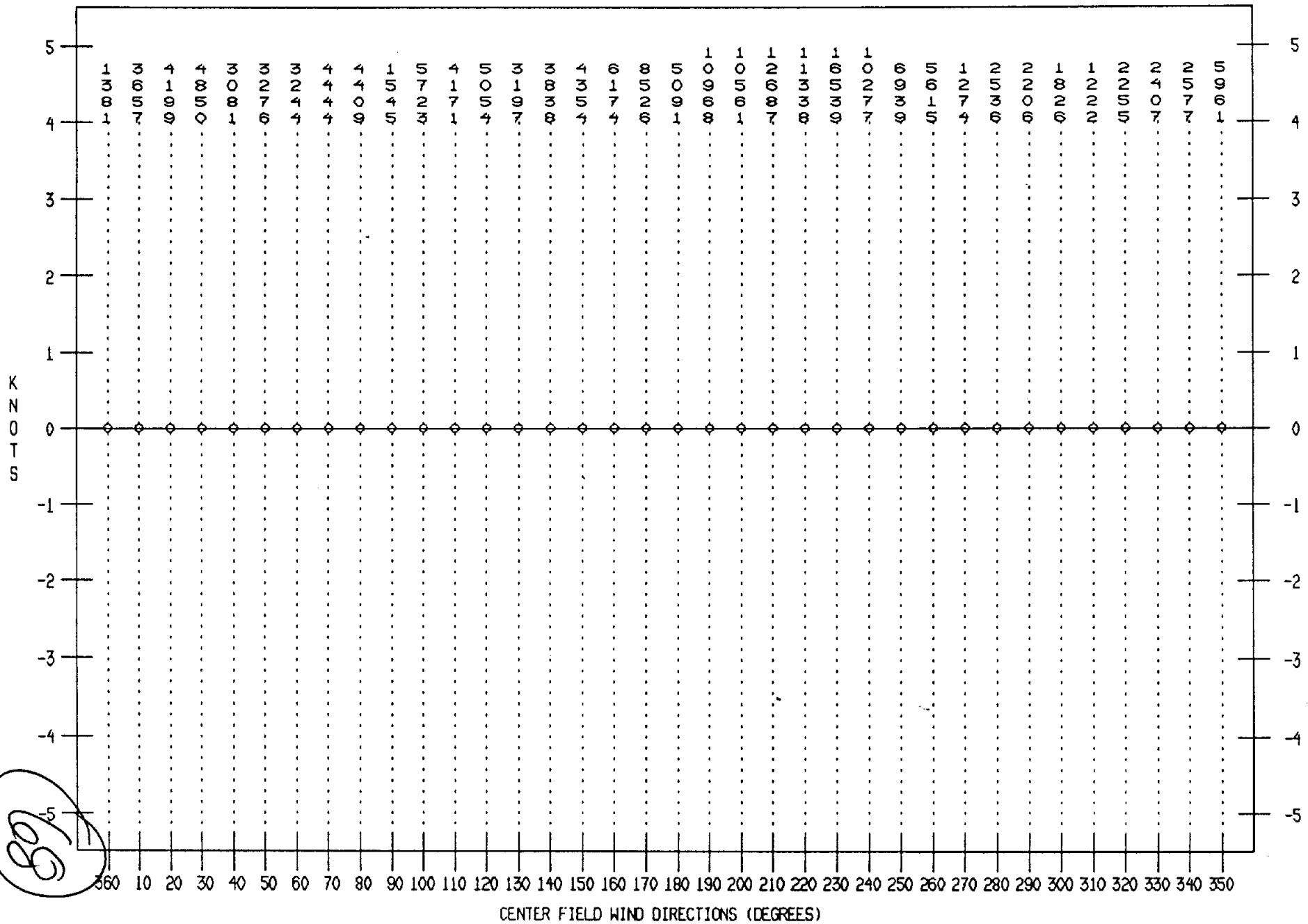
>21



67

AIRPORT ID: CLT
 SENSOR: 1

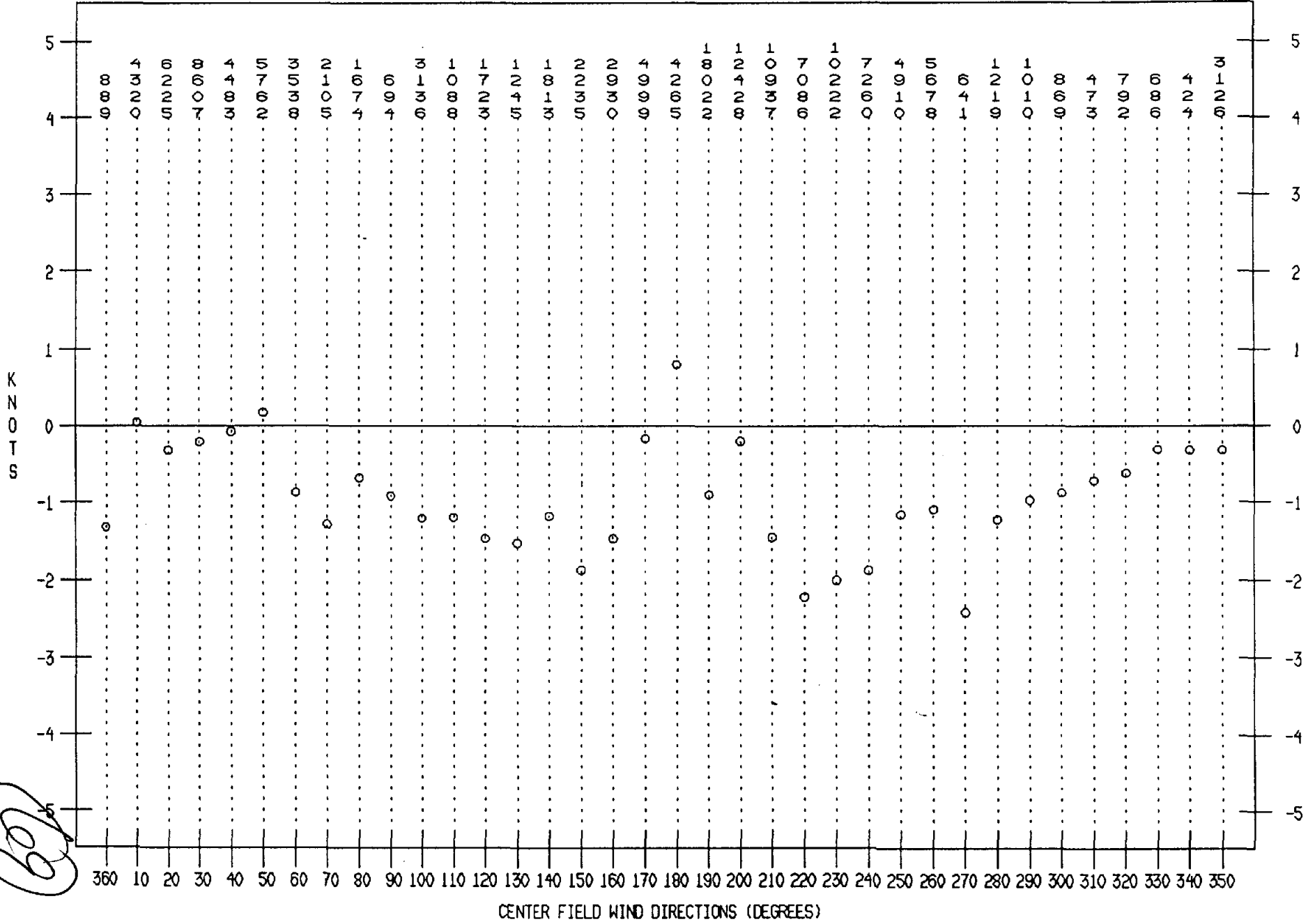
FROM: 06/01/94 00:00:09
 TO: 07/01/94 23:59:53
 HOUR RANGE: 0 TO 24



895

AIRPORT ID: CLT
 SENSOR: 2

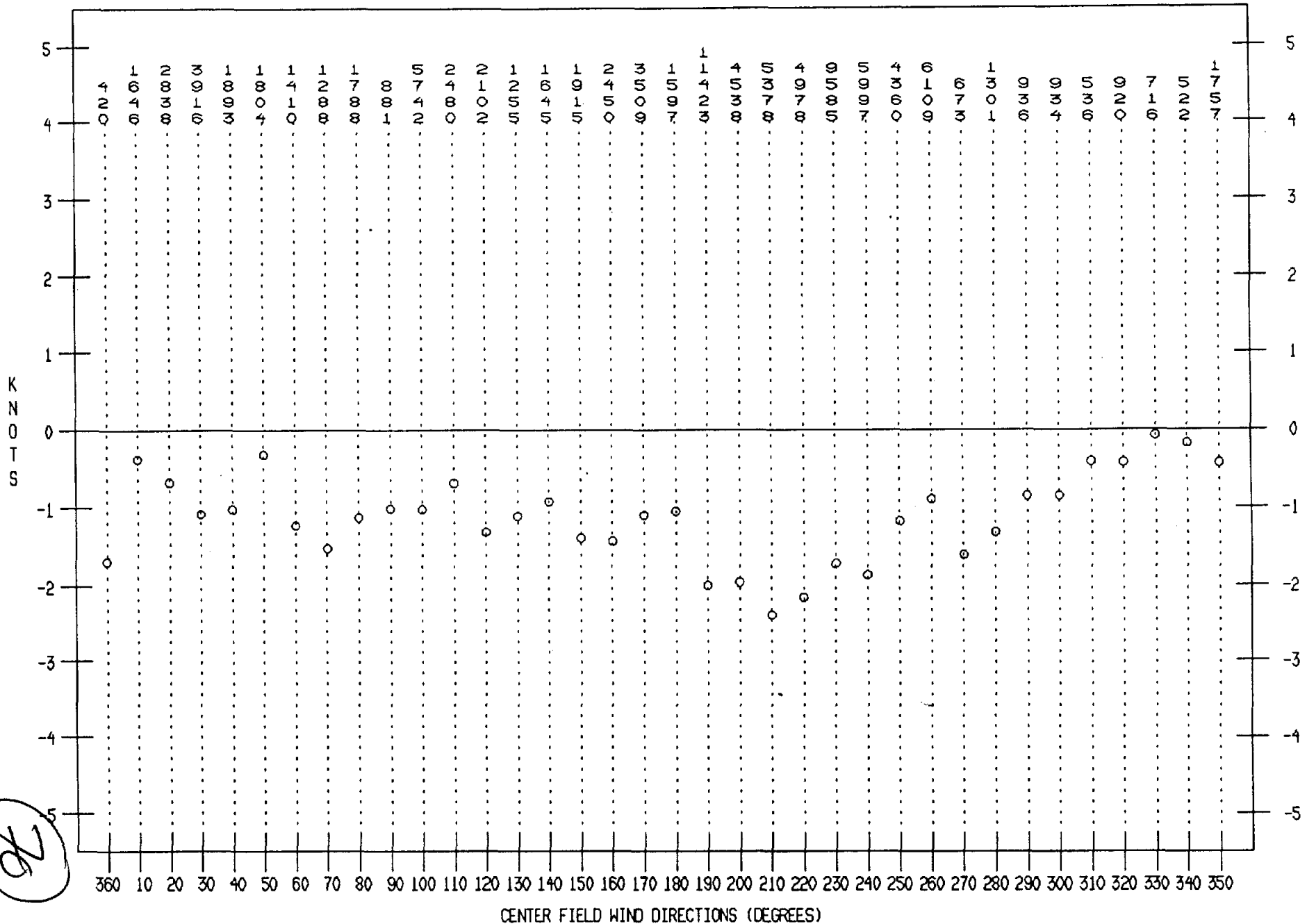
FROM: 06/01/94 00:00:09
 TO: 07/01/94 23:59:53
 HOUR RANGE: 0 TO 24



60

AIRPORT ID: CLT
 SENSOR: 3

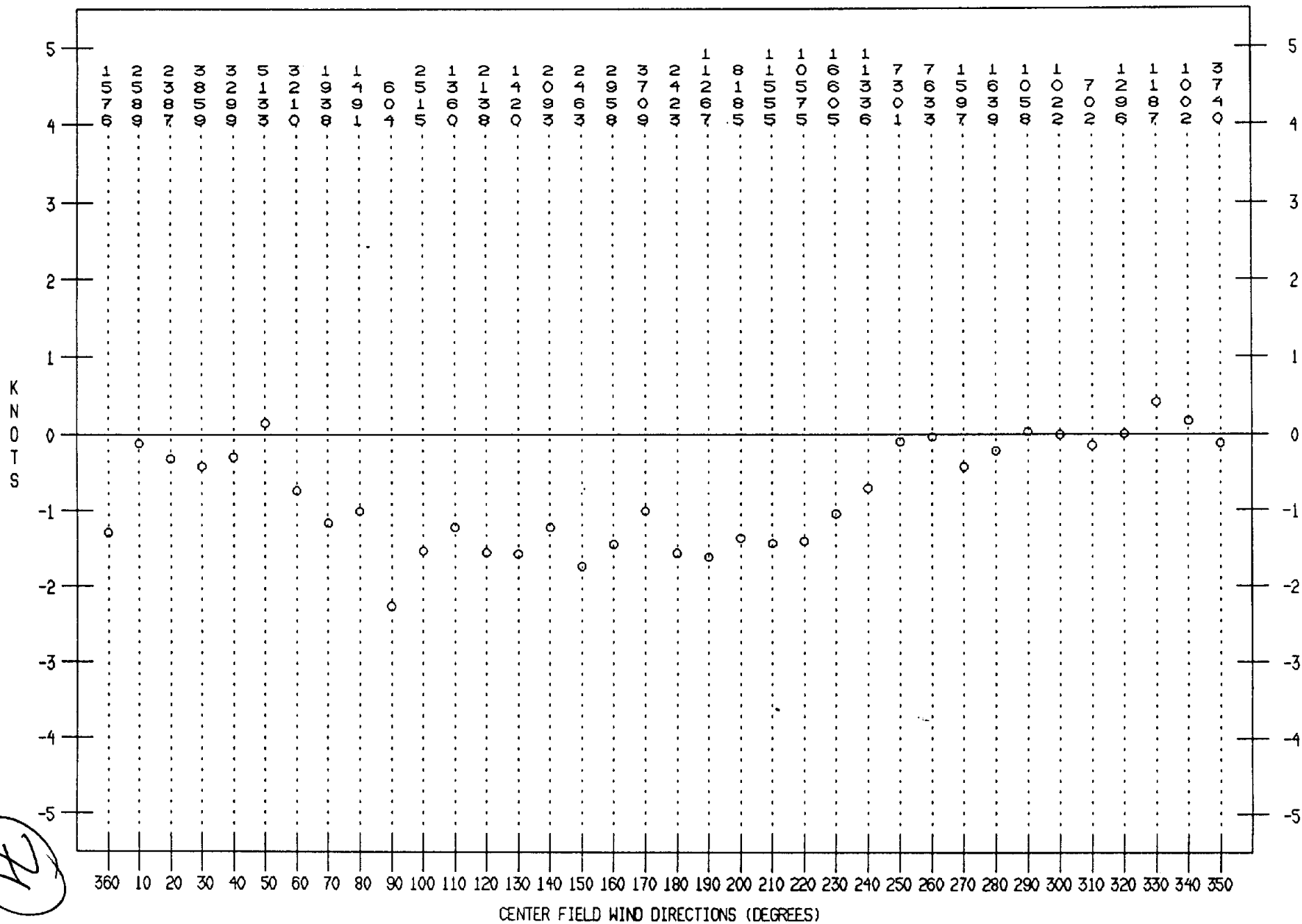
FROM: 06/01/94 00:00:09
 TO: 07/01/94 23:59:53
 HOUR RANGE: 0 TO 24



26

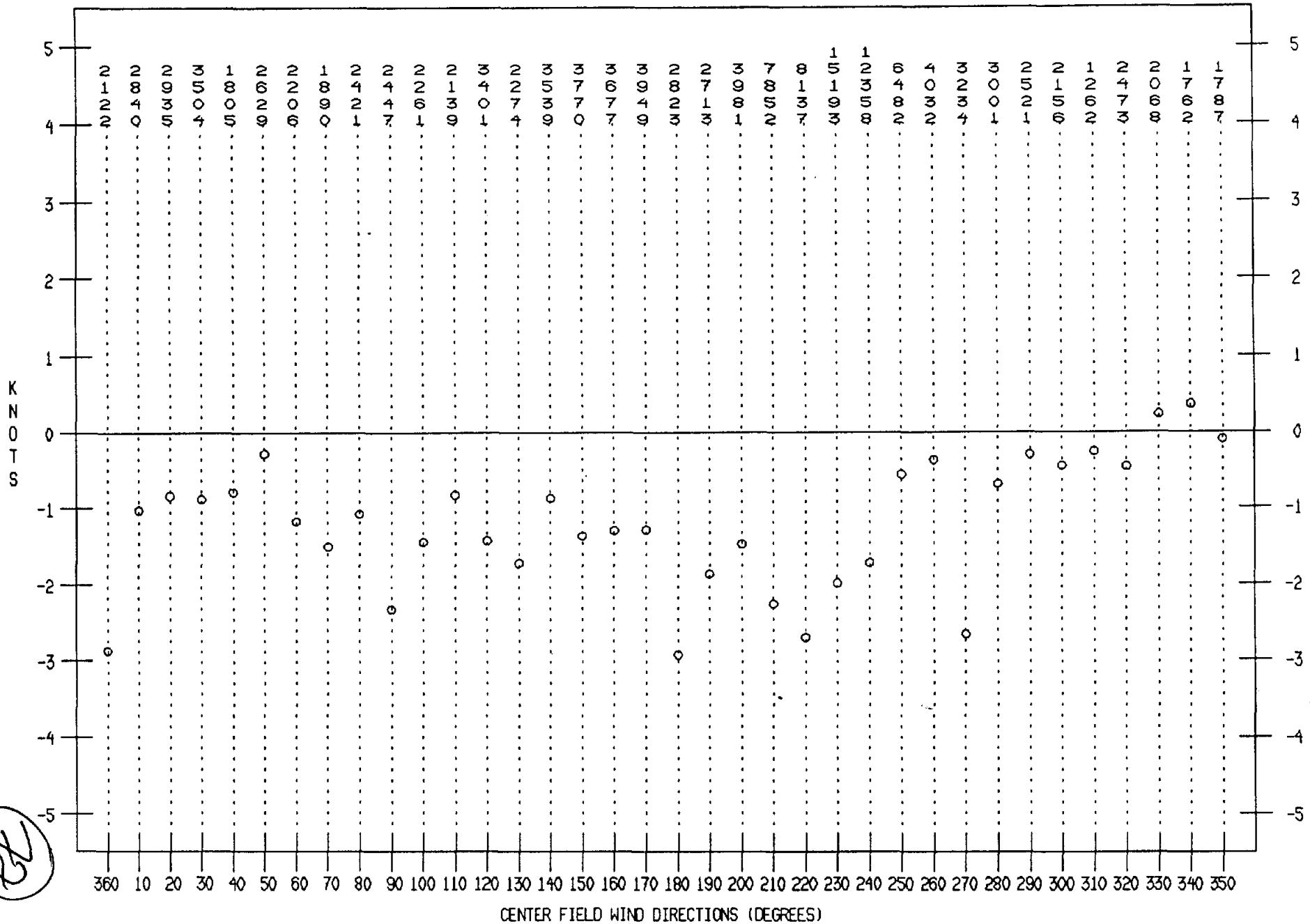
AIRPORT ID: CLT
SENSOR: 4

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24



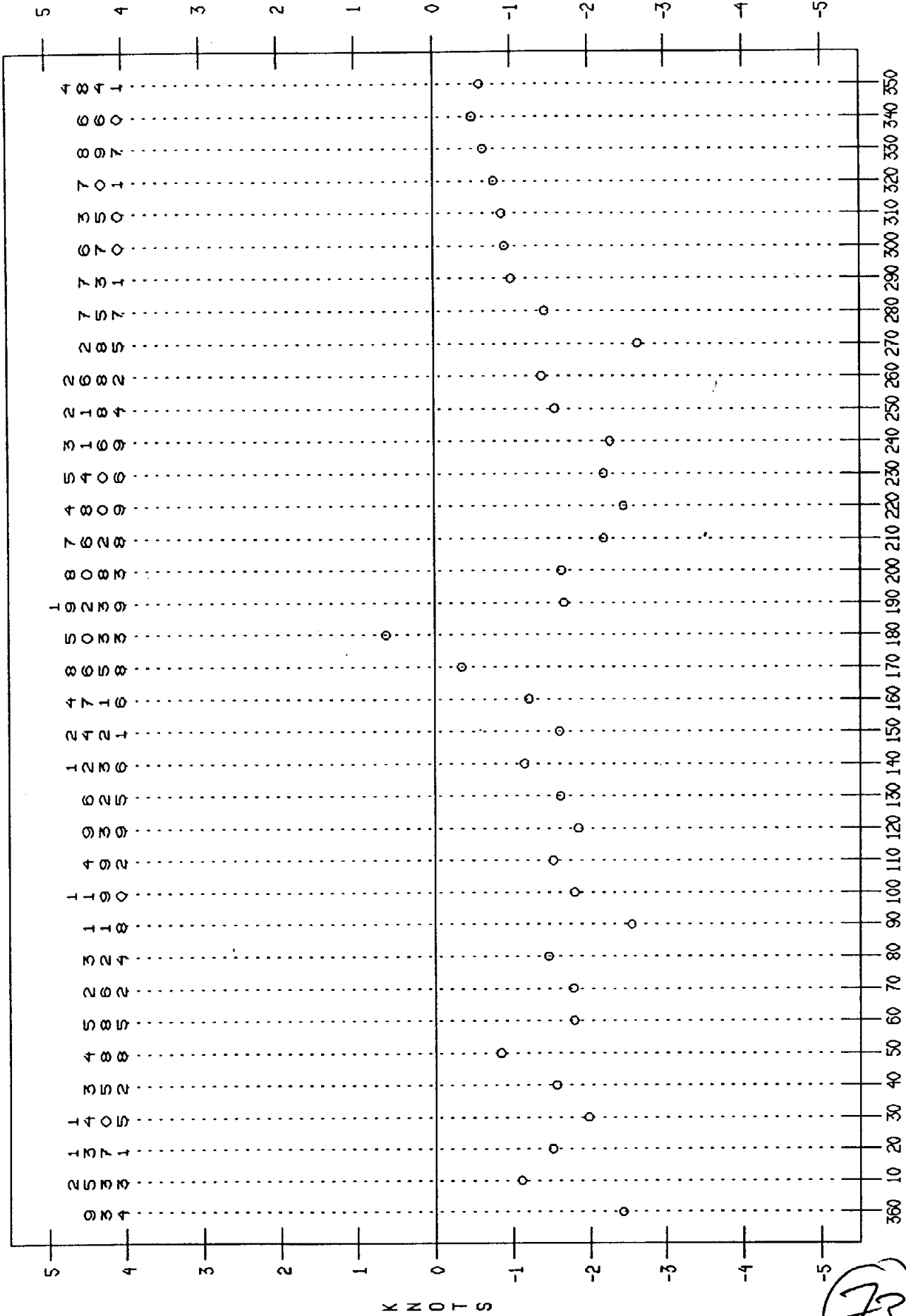
AIRPORT ID: CLT
 SENSOR: 5

FROM: 06/01/94 00:00:09
 TO: 07/01/94 23:59:53
 HOUR RANGE: 0 TO 24



FROM: 06/01/94 00:00:09
 TO: 07/01/94 23:59:53
 HOUR RANGE: 0 TO 24

AIRPORT ID: CLT
 SENSOR: 6

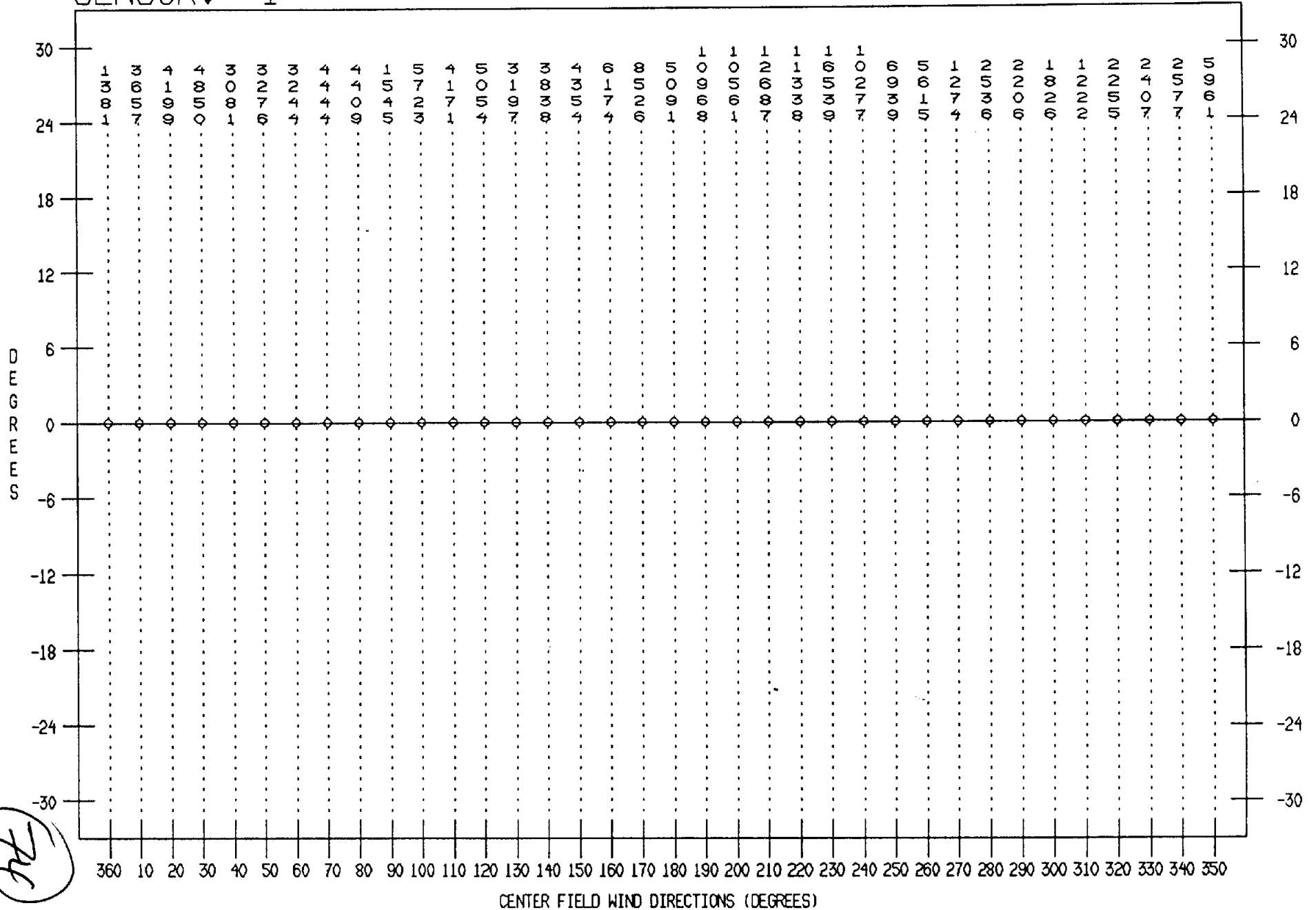


CENTER FIELD WIND DIRECTIONS (DEGREES)
 AVERAGE WIND SPEED DEVIATION FROM CENTER FIELD
 FAA TECHNICAL CENTER
 7/13/94

73

AIRPORT ID: CLT
 SENSOR: 1

FROM: 06/01/94 00:00:09
 TO: 07/01/94 23:59:53
 HOUR RANGE: 0 TO 24

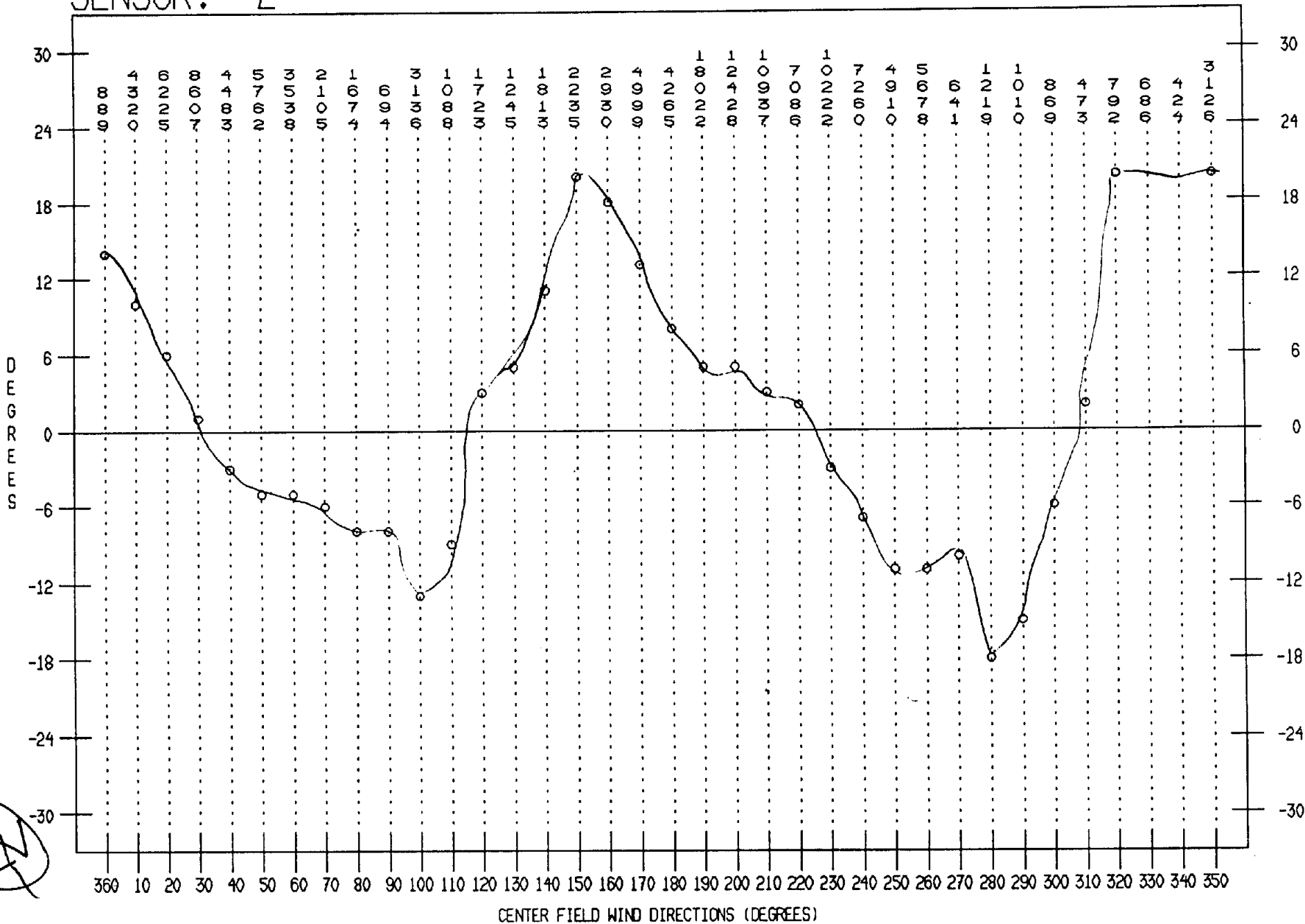


Handwritten initials: JAC

AVERAGE WIND DIRECTION DEVIATION FROM CENTER FIELD

AIRPORT ID: CLT
 SENSOR: 2

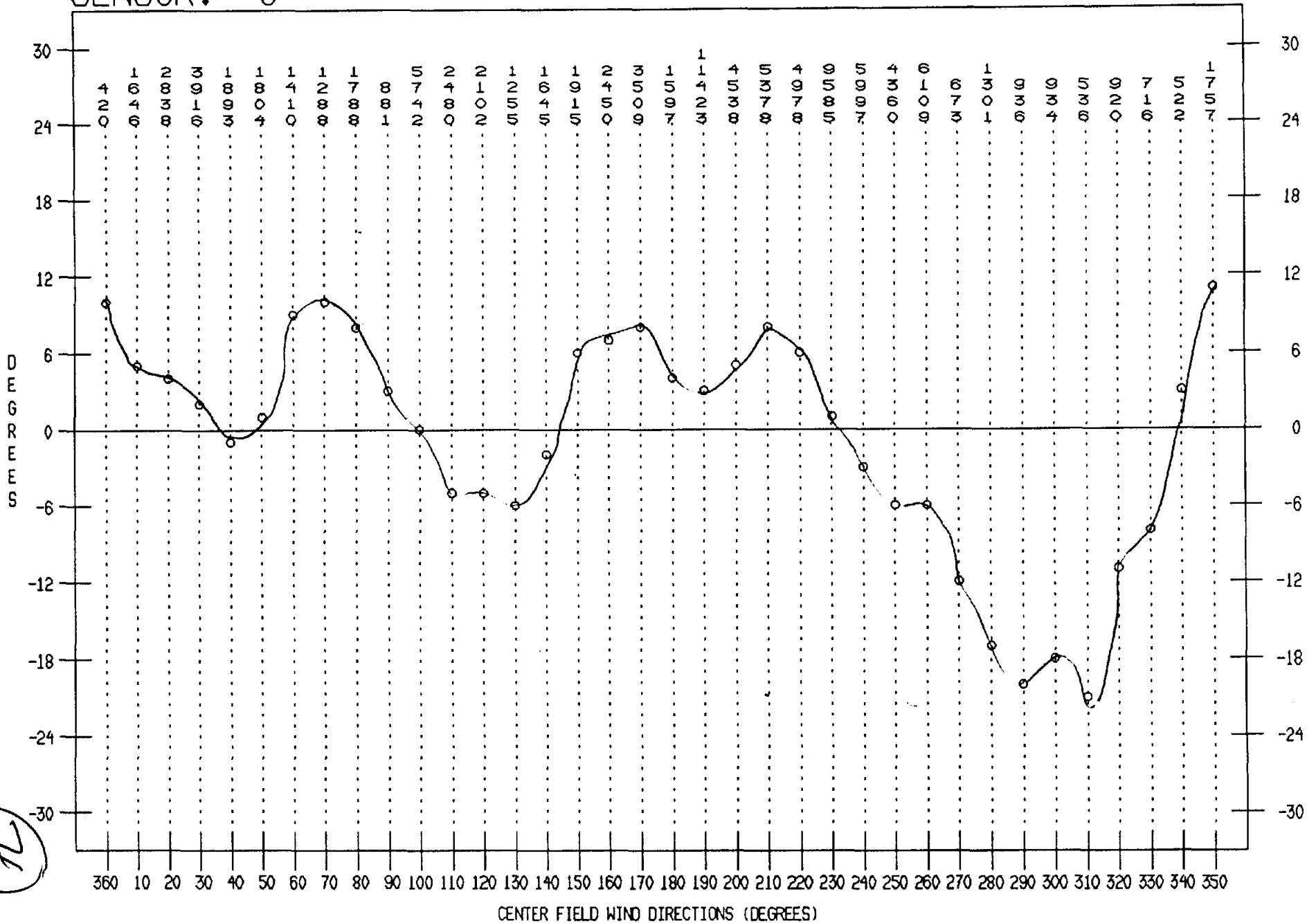
FROM: 06/01/94 00:00:09
 TO: 07/01/94 23:59:53
 HOUR RANGE: 0 TO 24



(45)

AIRPORT ID: CLT
 SENSOR: 3

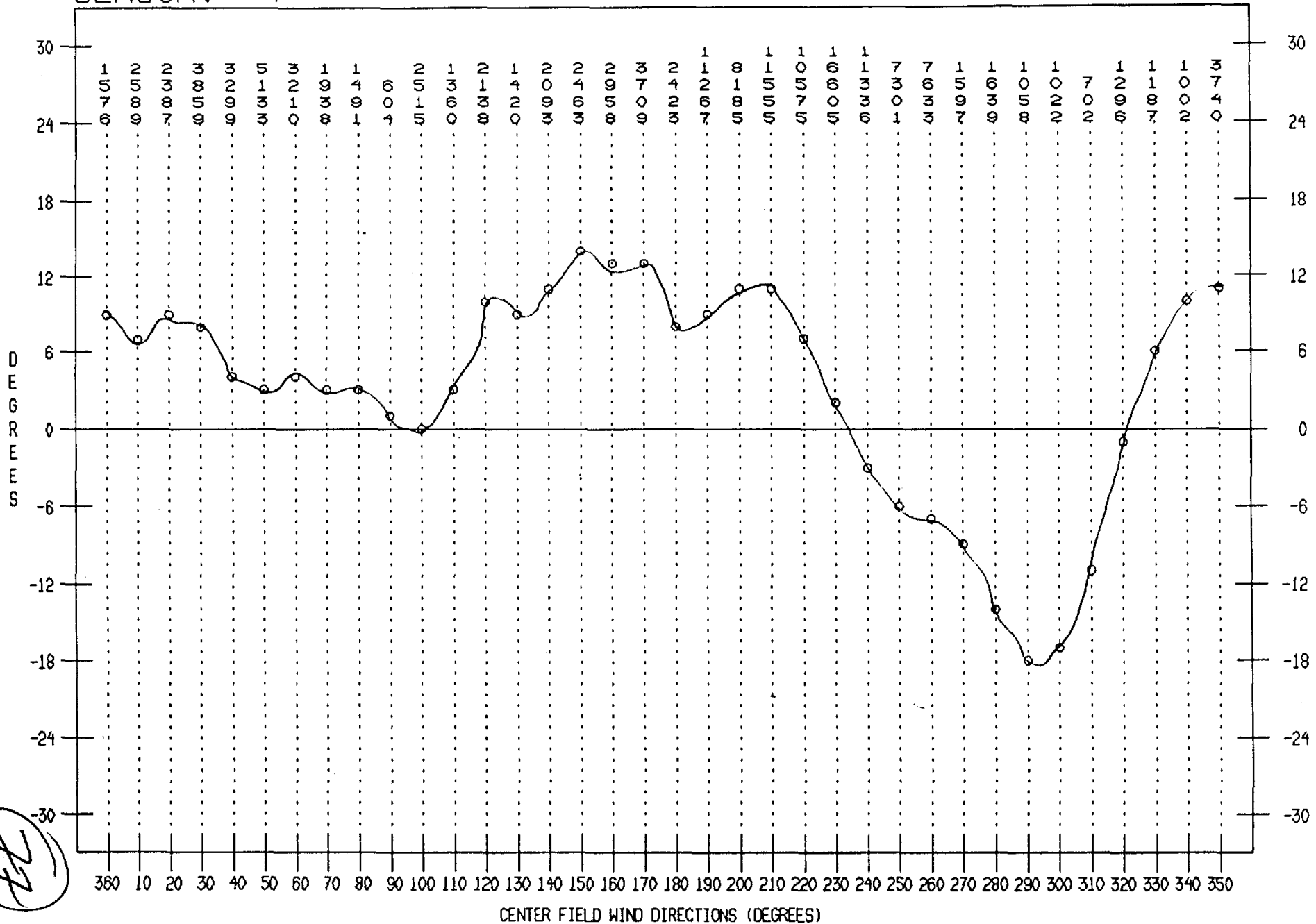
FROM: 06/01/94 00:00:09
 TO: 07/01/94 23:59:53
 HOUR RANGE: 0 TO 24



76

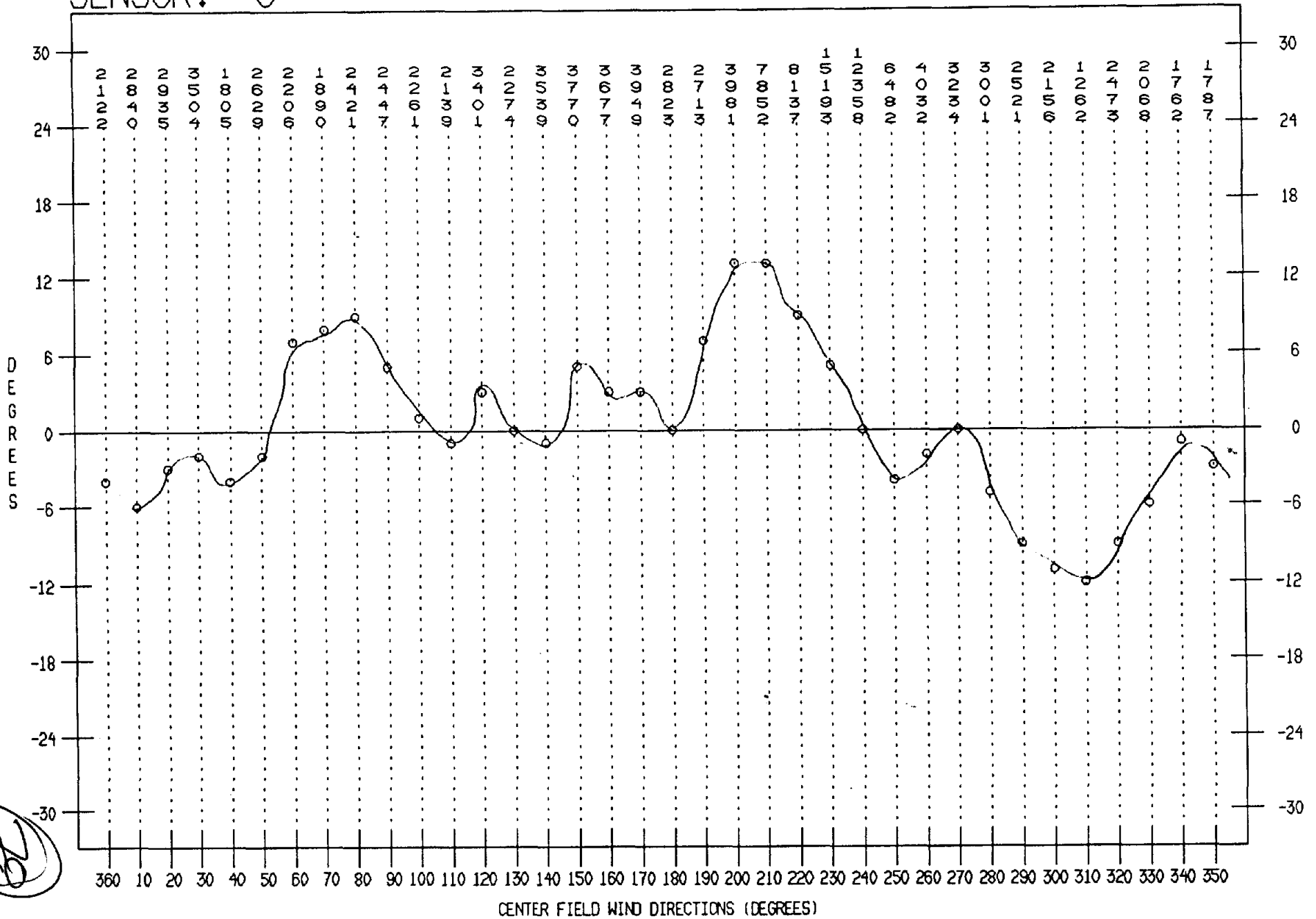
AIRPORT ID: CLT
SENSOR: 4

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24



AIRPORT ID: CLT
 SENSOR: 5

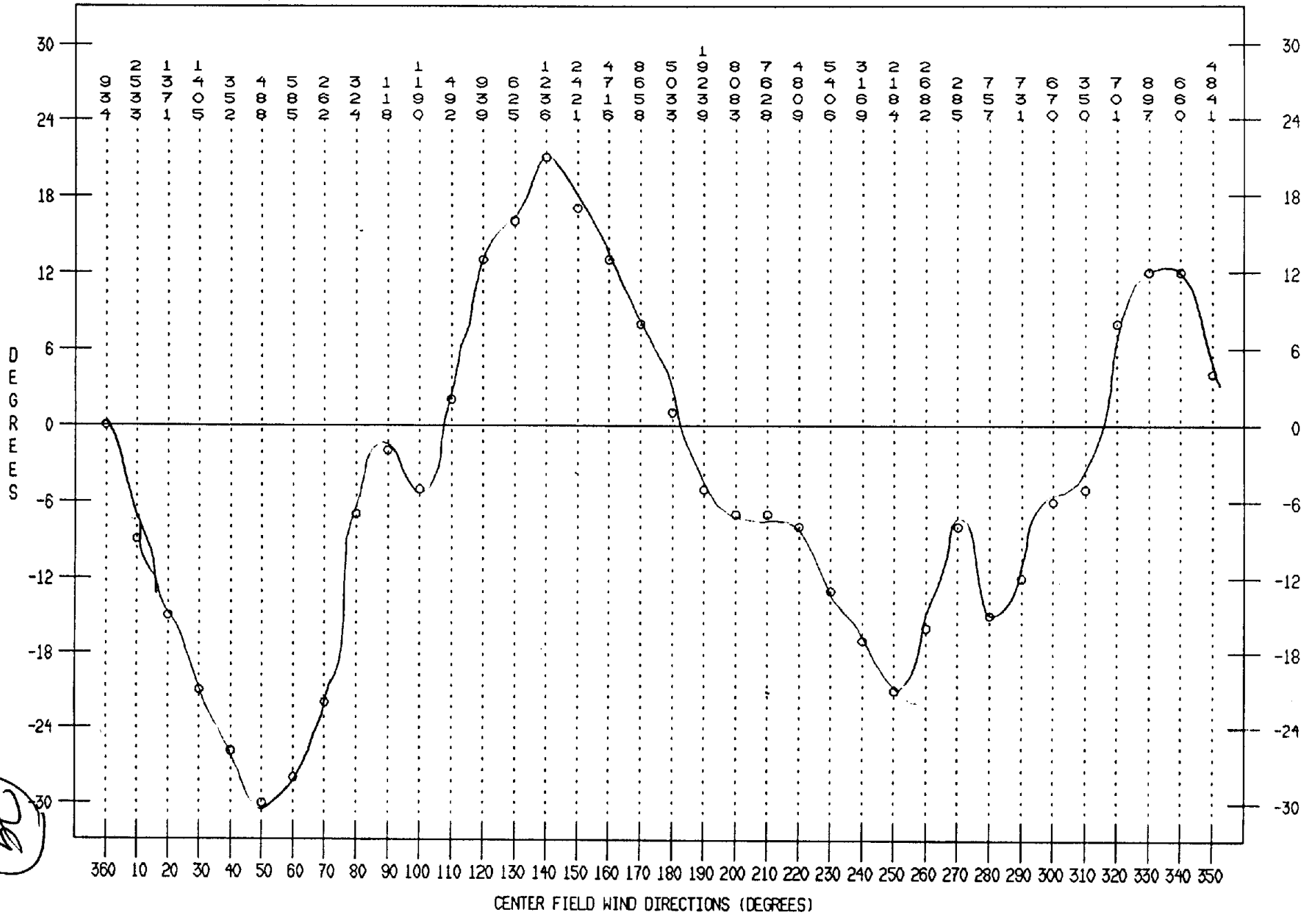
FROM: 06/01/94 00:00:09
 TO: 07/01/94 23:59:53
 HOUR RANGE: 0 TO 24



CLT

AIRPORT ID: CLT
 SENSOR: 6

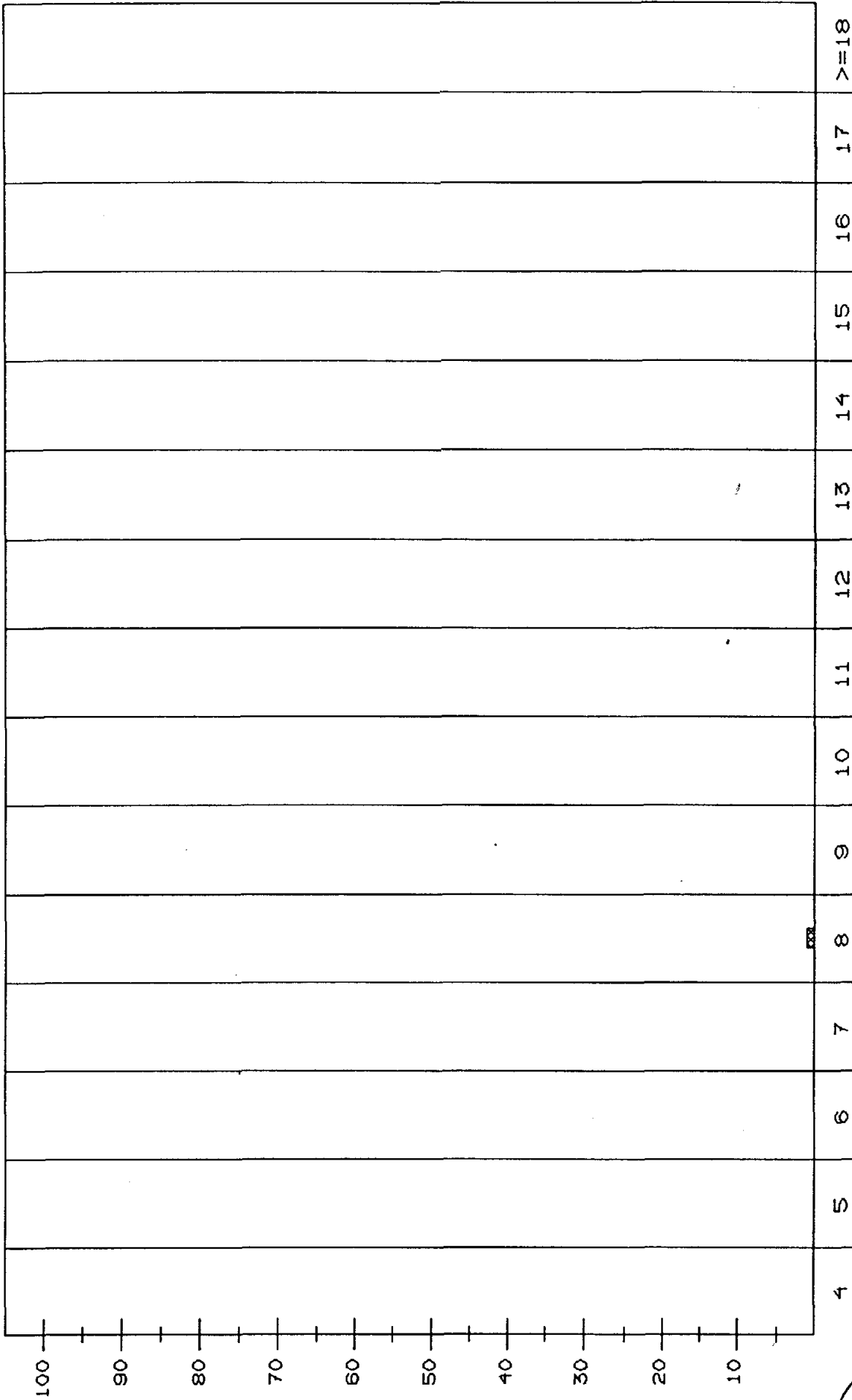
FROM: 06/01/94 00:00:09
 TO: 07/01/94 23:59:53
 HOUR RANGE: 0 TO 24



66

AIRPORT ID: CLT

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24



OCCURRENCES

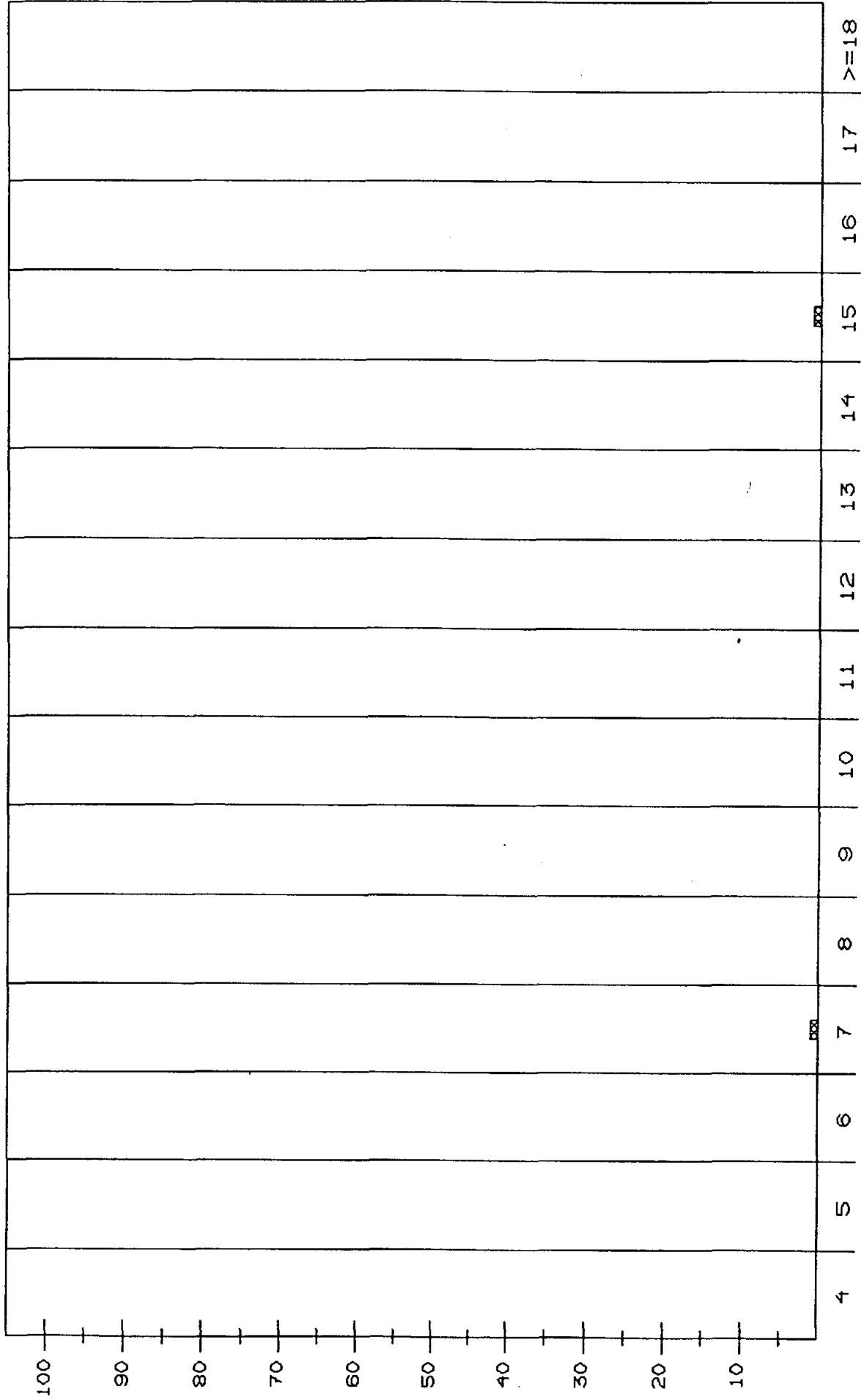
80

ALARM CONTINUITY (POLLS)

ALARM BREAKDOWN FOR SECTOR NE

AIRPORT ID: CLT

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24



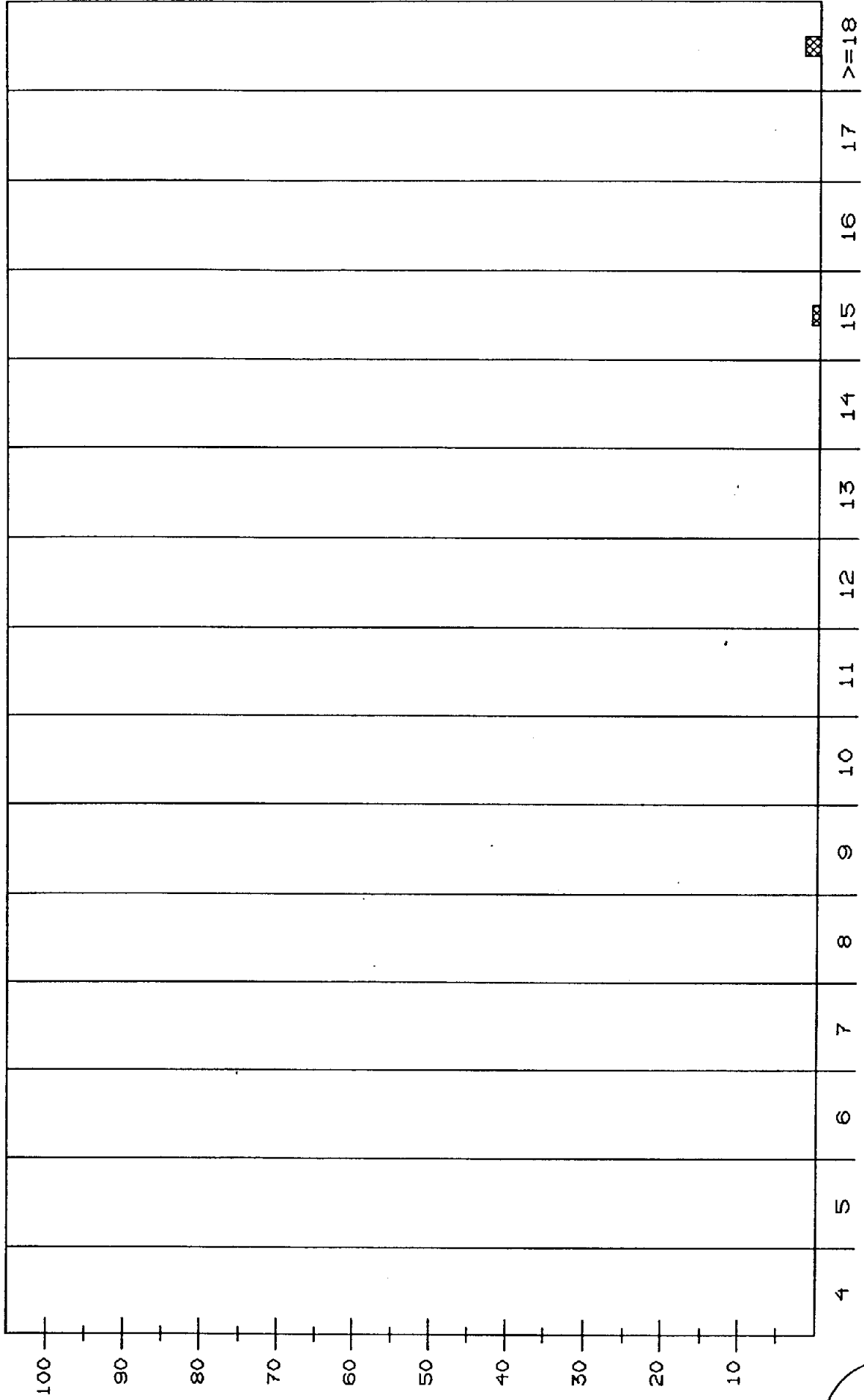
ALARMS CONTINUITY (POLLS)

ALARM BREAKDOWN FOR SECTOR SE

18/

AIRPORT ID: CLT

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24



O O O D R E F R E Z O E S

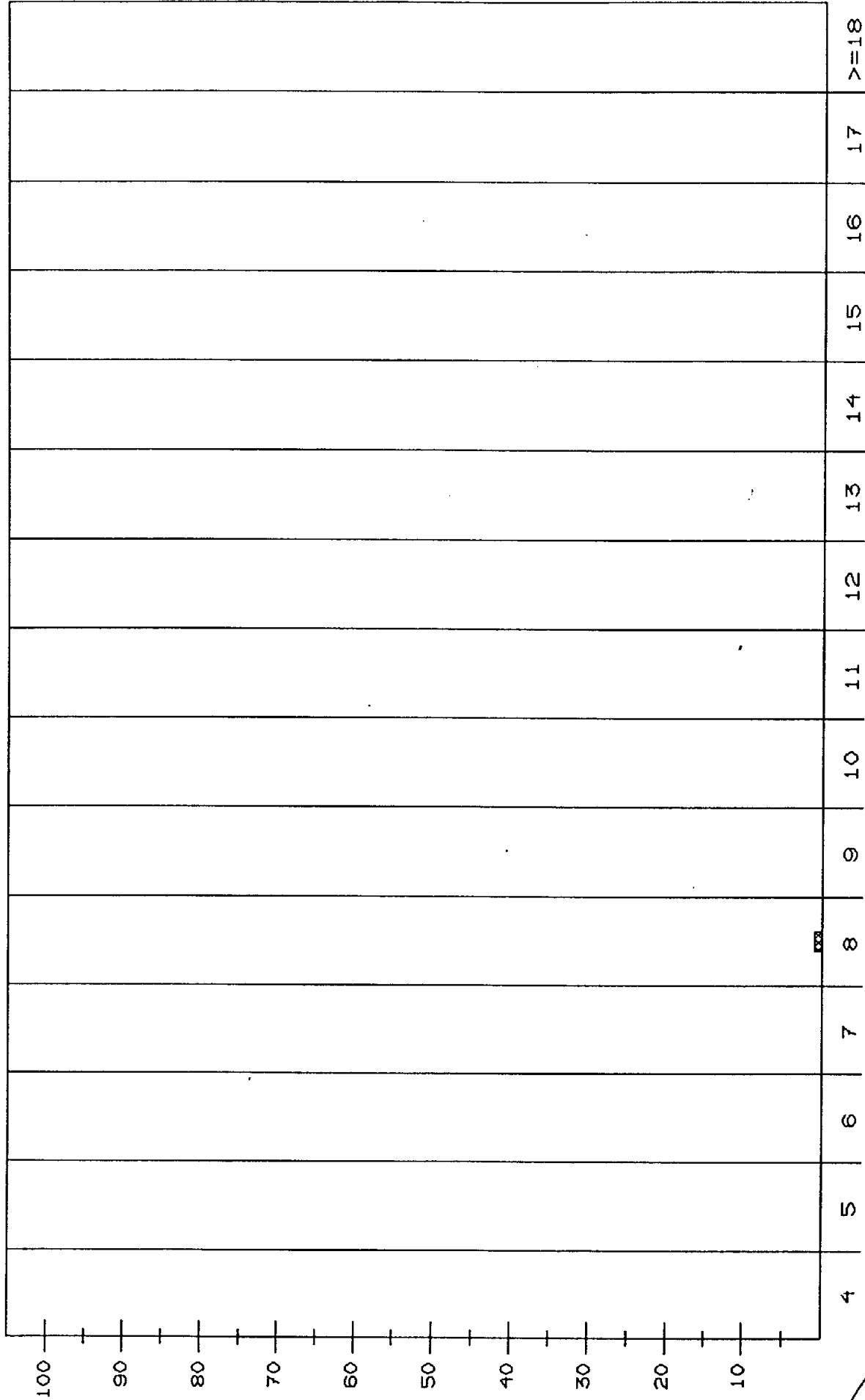
22

ALARM BREAKDOWN FOR SECTOR SW

AIRPORT ID: CLT

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53

HOUR RANGE: 0 TO 24



OCCURRENCES

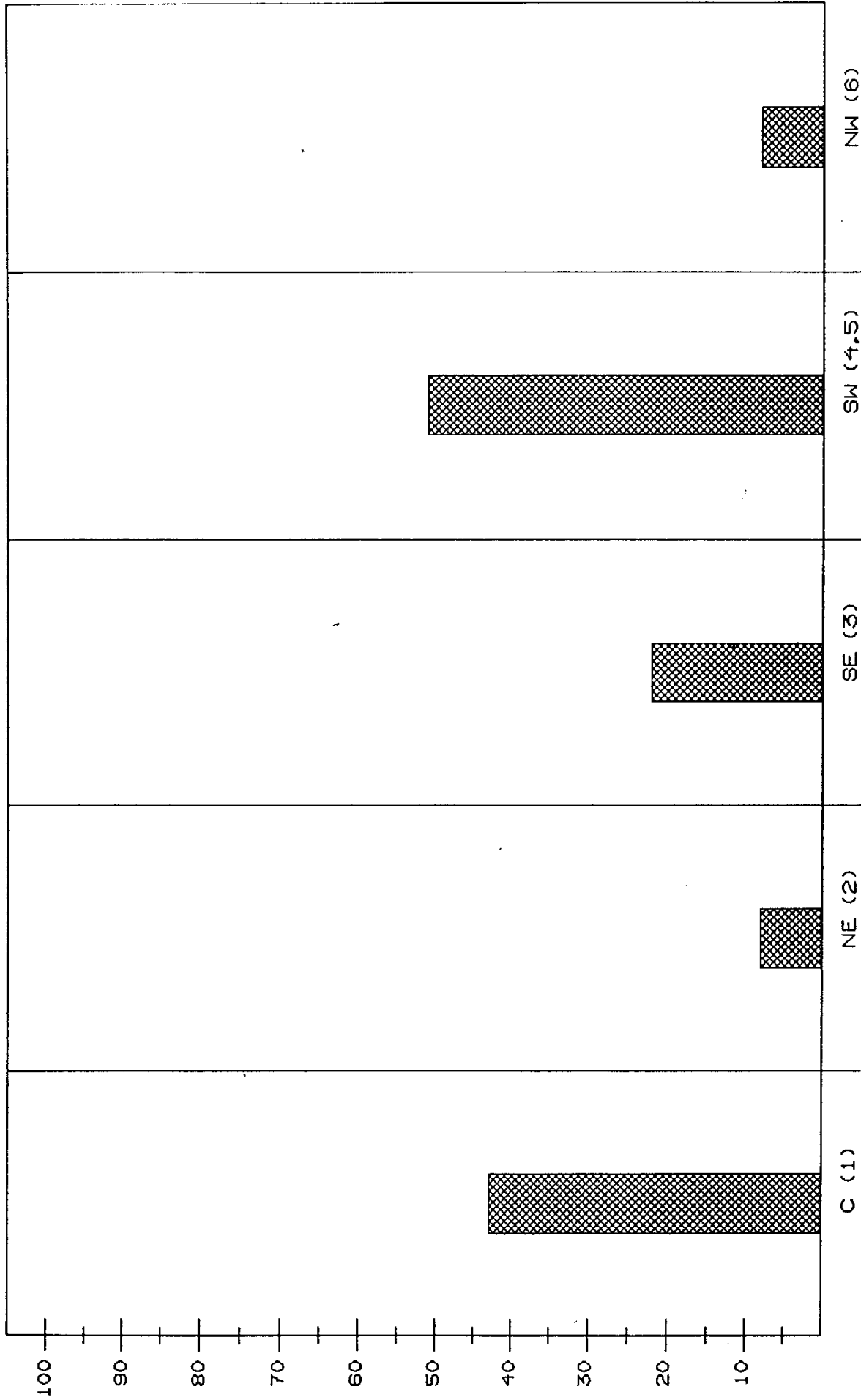
ALARM CONTINUITY (POLLS)

ALARM BREAKDOWN FOR SECTOR NW

23

AIRPORT ID: CLT
NUMBER OF POLLS: 267989

FROM: 06/01/94 00:00:09
TO: 07/01/94 23:59:53
HOUR RANGE: 0 TO 24



SECTORS (ASSOCIATED STATIONS)

TOTAL ALARMS PER SECTOR

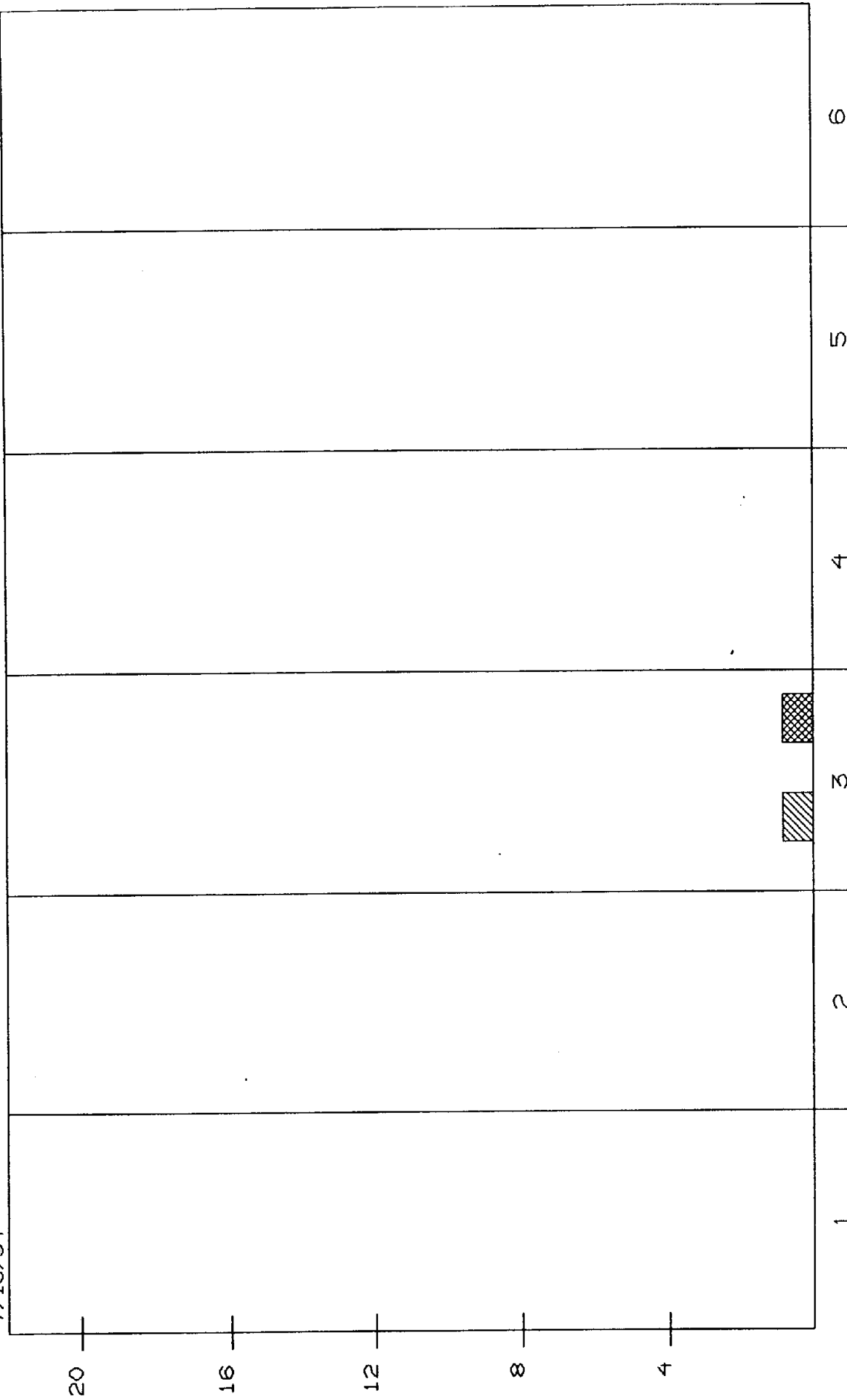
85

AIRPORT ID: CLT

FROM: 06/01/94 00:00:09

FAA TECHNICAL CENTER
7/13/94

TO: 07/01/94 23:59:53



REVERSE POLLS: 1
 % DOWN TIME: UNDETERMINED
 GAP LENGTH: 30 s
 INVALID TIMES: 347

HARD FAILS
 TRANS FAILS
 TOTAL FAILS