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WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME I--ETC(U)
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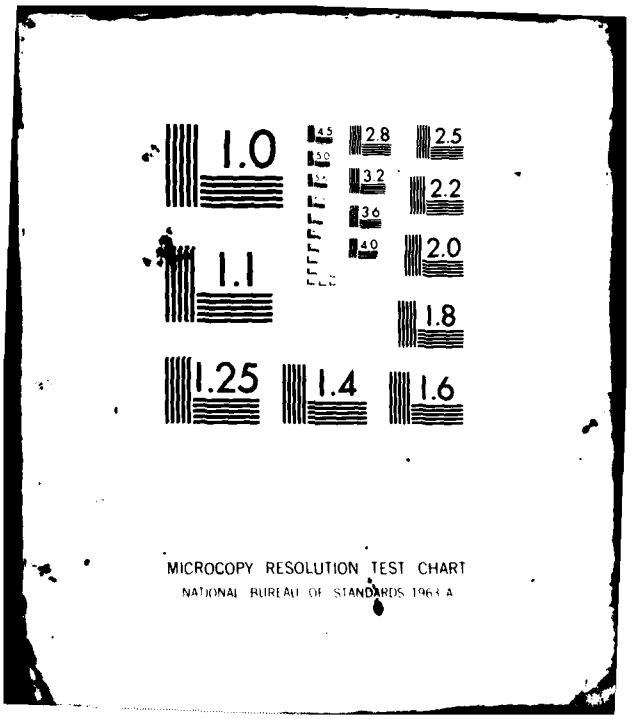
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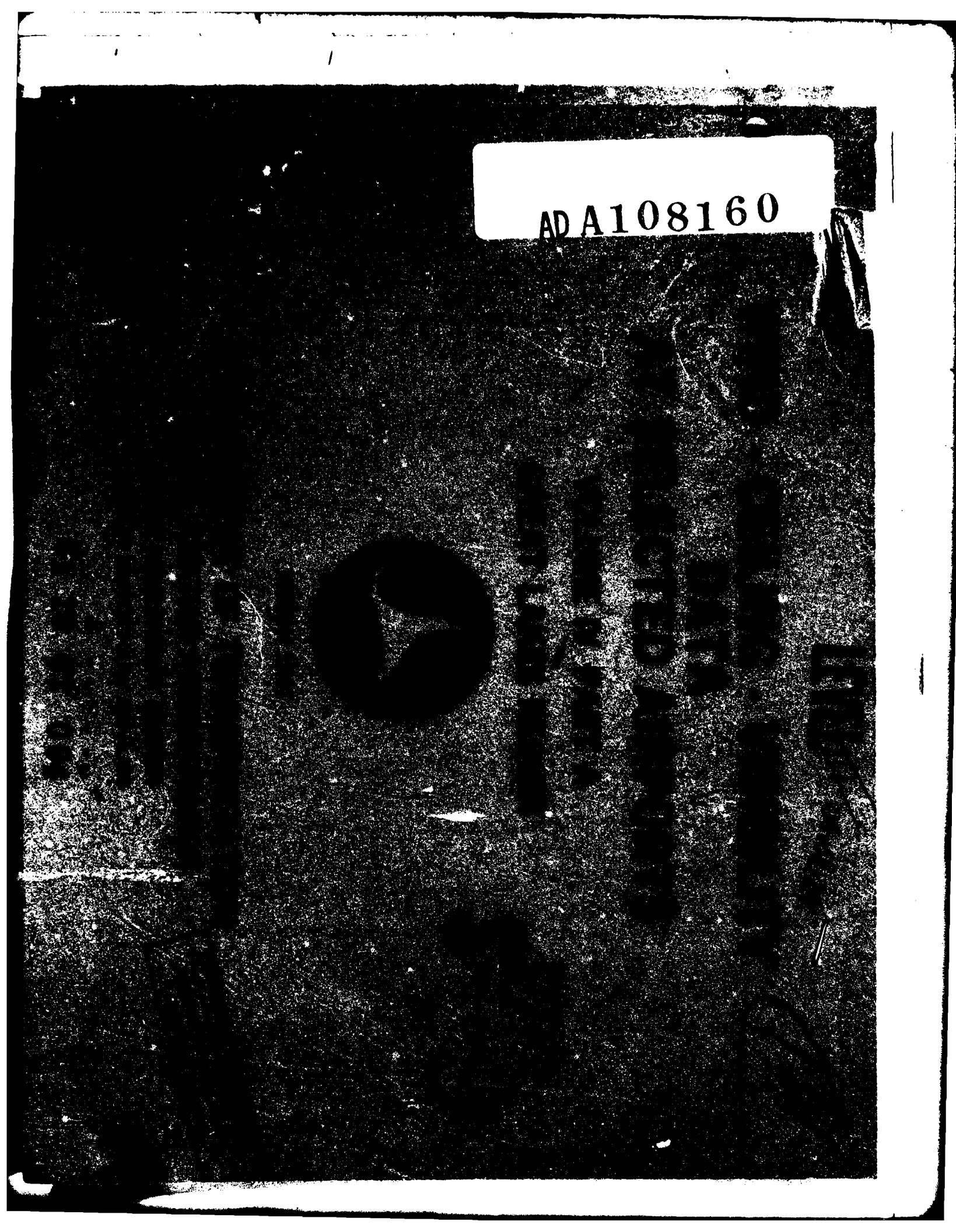
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16. Abstract

This report provides summary tables and graphic wind roses depicting wind direction and speed under specific ceiling - visibility conditions at 283 airports. This data will be used in the application of FAA's establishment criteria for pecision and non-precision approach and landing aids.

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Interagency Agreement DOT-FA79WAI-057

WIND-CEILING-VISIBILITY DATA AT SELECTED AIRPORTS

March 1981

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This report has been prepared by the U. S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Data and Information Service, National Climatic Center, Asheville, North Carolina for the Office of Aviation Policy and Plans, Federal Aviation Administration under Interagency Agreement No. DOT-FA79WAI-057. The contents of this report reflect the views of the contractor, who is responsible for the facts and accuracy of the data presented herein, and do not necessarily reflect the official views or policy of the FAA. This report does not constitute a standard, specification or regulation.

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FOREWORD

INTRODUCTION

Summary tables and graphs have been prepared to assist the FAA in the application of establishment criteria for precision and non-precision approach and landing aids. These tables and graphs depict wind direction and speed under specified ceiling and visibility conditions. This report has been prepared by the National Climatic Center for the FAA under Interagency Agreement No. DOT-FA79WAI-057.

Climatological information for selected airports is presented in 11 volumes:

Volume 1 - New England Region (ANE)
Volume 2 - Eastern Region (AEA)
Volume 3 - Southern Region (ASO)
Volume 4 - Great Lakes Region (AGL)
Volume 5 - Central Region (ACE)
Volume 6 - Southwest Region (ASW)
Volume 7 - Rocky Mountain Region (ARM)
Volume 8 - Northwest Region (ANW)
Volume 9 - Western Region (AWE)
Volume 10 - Alaskan and Pacific Regions (AAL and APC)
Volume 11 - Visibility Time Series for Key Stations

Summary tables and graphs are presented in volumes 1-10. Graphical time series of visibility measurements for key stations throughout the United States are presented in volume 11 to give the reader some insight into the climate variability that can be expected.

ELEMENT CLASSIFICATION

Twelve tables for each station depict wind direction vs. wind speed distributions. Half the tables show daytime distributions for six ceiling-visibility classes, and half show nighttime distributions for the same six ceiling-visibility classes. A graphical depiction of the data in each table is also presented. An additional graph for each station depicts the combined day and night winds for all ceiling-visibility conditions.

Wind direction is grouped according to a 16-point compass (N, NNE, NE, ENE, E, ESE, SE, SSE, S, SSW, SW, WSW, W, WNW, NW, NNW) plus calm. The wind speed groups are 0-3, 4-12, 13-15, 16-18, 19-24, 25-31 and equal to or greater than 32 mph.

The ceiling-visibility criteria are defined as:

CLASS 1 = ceiling equal to or greater than 1,500 feet and visibility equal to or greater than 3 miles.

CLASS 2 = ceiling less than 1,500 feet and/or visibility less than 3 miles.

CLASS 3 = ceiling less than 1,500 feet and/or visibility less than 3 miles, but ceiling equal to or greater than 400 feet and visibility equal to or greater than 1 mile.

CLASS 4 = ceiling less than 400 feet and/or visibility less than 1 mile, but ceiling equal to or greater than 200 feet and visibility equal to or greater than 1/2 mile.

CLASS 5 = ceiling less than 200 feet and/or visibility less than 1/2 mile, but ceiling equal to or greater than 100 feet and visibility equal to or greater than 1/4 mile.

CLASS 6 = ceiling less than 100 feet and/or visibility less than 1/4 mile.

CLASS 7 = all ceiling and visibility conditions; sum of classes 1 and 2; also the sum of classes 1 and 3 through 6.

Time conditions are determined from the onset of civil twilight in the morning to the end of civil twilight in the evening. Civil twilight begins (ends) when the sun is six degrees below the horizon. It covers the somewhat indefinite period before sunrise and after sunset during which natural illumination usually remains sufficient for ordinary outdoor operations. For this report the morning (evening) times of beginning (ending) of civil twilight at a station are determined for the middle of a month. All data within this month are classified as either day or night according to these times.

DATA

The data used in the preparation of the climatological tables and graphs were extracted from the National Climatic Center's Tape Deck 1440 Hourly Surface Observations. The data contained in this deck have been digitized from the official observations recorded on station. From about 1948 through 1964 data were digitized for each hour in a day. From 1965 onward only every third hour's data were digitized. The tables and graphs in this report are based on eight observations per day (every third hour) for

the entire period of record. This was done to eliminate the data bias problems that would have been created by trying to mix the 24 observations per day prior to 1965 with the 8 observations per day after 1964.

The effect on the climatology of not using all the available data was examined for representative key stations in each region. Monthly day and night distributions were prepared for all ceiling-visibility criteria and wind speed and direction groups using 24 observations per day. A data subset was created by extracting every third observation from the hourly data set, and similar frequency distributions were prepared. The Kolmogorov-Smirnov test was applied to evaluate the hypotheses that distributions using 24 observations per day are statistically the same as distributions using 8 observations per day. The results of this procedure indicate equality of distributions in most cases. Therefore, no significant information has been lost by basing the climatologies on 8 observations per day. Exceptions are discussed in Volume II.

The tables and graphs are also available on microfiche, and the summarized data are available on magnetic tape. This report presents annual summaries, but monthly summaries can be generated on magnetic tape. Requests for microfiche copies of this report and for data on magnetic tape should be addressed to:

Director
National Climatic Center
Federal Building
Asheville, NC 28801

The requested microfiche copies and/or tapes will be provided at cost.

TABLE LEGEND

A = number of day (night) observations in a given ceiling–visibility class, wind speed class and direction divided by the total number of day (night) observations in ceiling–visibility classes 1, 3–6, all wind speed classes and directions times 100.

B = number of day (night) observations in a given ceiling–visibility class, wind speed class and direction divided by the total number of day (night) observations in the given ceiling–visibility class and direction times 100.

C = number of day (night) observations of a given direction divided by the total number of day (night) observations in ceiling–visibility classes 1, 3–6 times 100.

D = number of day (night) observations of a given direction divided by the total number of day (night) observations in the given ceiling–visibility class times 100.

E = number of day (night) observations in a given wind speed class divided by the total number of day (night) observations in ceiling–visibility classes 1, 3–6 times 100.

F = number of day (night) observations in a given wind speed class divided by the total number of day (night) observations in the given ceiling–visibility class times 100.

G = number of day (night) observations in the given ceiling–visibility class divided by the total number of day (night) observations in ceiling–visibility classes 1, 3–6 times 100.

100 = summation of column D = summation of row F.

H = average wind speed for the given day (night) ceiling–visibility class and direction.

I = average wind speed for the given day (night) ceiling–visibility class.

J = overall period of record; see station list for actual years of record used.

Note: Ceiling–visibility class 2 is the sum of classes 3–6.

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: BDR BRIDGEPORT, CT

(J) **PERIOD:** 1949-1978

CLASS 1 / DAY

STATION NUMBER: 94702

NO. OBS.: 29909

DIR	SPEED GROUPS (MPH) 0-3 A	0-3 B	4-12 A	4-12 B	13-15 A	13-15 B	16-18 A	16-18 B	19-24 A	19-24 B	25-31 A	25-31 B	32+ A	32+ B	TOTAL C	TOTAL D	AVG WIND SPEED
N	.3	.3	2.6	3.1	1.1	1.4	.8	.9	.6	.8	.1	.1	.0	.0	5.5	6.6	12.6
NNE	.2	.3	1.7	2.1	.6	.7	.3	.4	.2	.3	.1	.1	.0	.0	3.2	3.8	11.3
NE	.3	.4	2.2	2.6	.9	1.0	.6	.7	.3	.4	.0	.0	.0	.0	4.3	5.1	11.5
ENE	.2	.2	1.5	1.8	.6	.7	.4	.5	.2	.3	.0	.1	.0	.0	3.0	3.5	11.7
E	.2	.2	2.2	2.6	.8	1.0	.6	.7	.3	.4	.1	.1	.0	.0	4.2	5.0	11.9
ESE	.1	.1	1.7	2.0	.4	.5	.3	.3	.2	.2	.0	.0	.0	.0	2.7	3.2	10.9
SE	.2	.2	1.5	1.7	.4	.5	.3	.3	.2	.2	.0	.0	.0	.0	2.2	2.6	9.8
SSE	.1	.1	1.7	2.0	.4	.5	.3	.3	.2	.2	.0	.1	.0	.0	2.3	2.8	9.8
S	.2	.2	2.9	3.5	1.0	1.2	.5	.6	.3	.4	.0	.0	.0	.0	5.0	5.9	11.4
SSW	.1	.1	2.5	3.0	.9	1.1	.5	.6	.3	.4	.1	.1	.0	.0	5.3	6.3	12.8
SW	.2	.3	4.6	5.4	2.0	2.4	1.3	1.6	.6	.7	.1	.1	.0	.0	8.8	10.5	12.1
WSW	.2	.2	3.8	4.5	1.8	2.2	1.3	1.5	.9	1.0	.2	.2	.0	.0	8.1	9.6	13.1
W	.1	.2	2.9	3.5	1.3	1.6	1.1	1.4	1.1	1.3	.4	.5	.1	.1	7.1	8.5	14.4
WNW	.2	.2	2.1	2.5	1.3	1.6	1.3	1.6	1.6	1.9	.7	.9	.2	.2	7.5	8.8	16.3
NW	.2	.3	2.1	2.5	1.3	1.6	1.6	1.8	1.6	1.9	.7	.9	.1	.2	7.7	9.2	16.0
NNW	.2	.2	2.1	2.5	1.2	1.4	1.1	1.3	1.3	1.5	.4	.5	.1	.1	6.3	7.5	15.1
CALM	1.1	1.3													1.1	1.3	
TOTAL	4.1	4.8	38.2	45.3	16.4	19.5	12.3	14.6	9.8	11.7	3.0	3.5	.6	.7	84.3	100	13.0

(A) (B) (C) (D) (H)

(E) (F) (G) (100) (I)

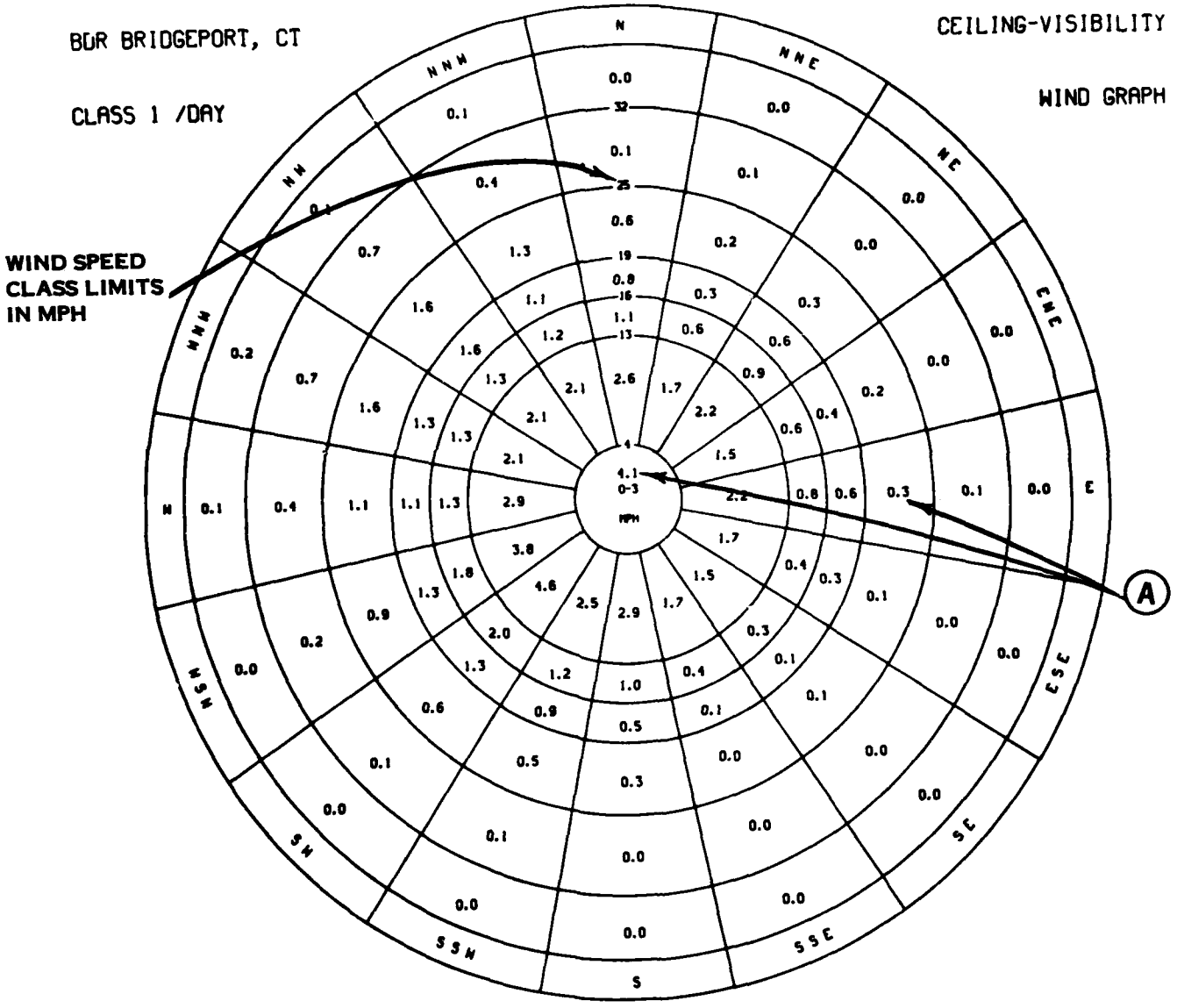
SAMPLE

BGR BRIDGEPORT, CT

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



A–NUMBER OF DAY (NIGHT) OBSERVATIONS IN A GIVEN CEILING–VISIBILITY CLASS, WIND SPEED CLASS AND DIRECTION DIVIDED BY THE TOTAL NUMBER OF DAY (NIGHT) OBSERVATIONS IN CEILING–VISIBILITY CLASSES 1, 3–6, ALL WIND SPEED CLASSES AND DIRECTIONS TIMES 100.

STATION LIST

ST	CITY	AP ID	STATION NUMBER	PERIOD OF RECORD
IL				
	Chicago	MDW	14819	1948-1978
	Chicago	ORD	94846	1949-1978
	Moline	MLI	14923	1949-1978
	Peoria	PIA	14842	1948-1951 1957-1978
	Rockford	RFD	94822	1952-1954 1959-1978
	Springfield	SPI	93822	1948-1978
IN				
	Evansville	EVV	93817	1948-1978
	Fort Wayne	FWA	14827	1948-1978
	Indianapolis	IND	93819	1948-1978
	South Bend	SBN	14848	1948-1978
	Terre Haute	HUF	93823	1948-1951 1953-1954 1973-1977*
MI				
	Alpena	APN	94849	1966-1978
	Detroit	DET	14822	1948-1978
	Detroit	DTW	94847	1959-1978
	Flint	FNT	14826	1949-1978
	Grand Rapids	GRR	94860	1964-1978
	Houghton Lake	HTL	94814	1965-1978
	Lansing	LAN	14836	1949-1954 1960-1978
	Muskegon	MKG	14840	1948-1952 1960-1978
	Saginaw	MBS	14845	1949-1954 1974-1978
	Sault Ste Marie	SSM	14847	1948-1978
	Traverse City	TVC	14850	1949-1978

MN				
	Duluth	DLH	14913	1948-1978
	International Falls	INL	14918	1948-1978
	Minneapolis St Paul	MSP	14922	1948-1978
	Rochester	RST	14925	1961-1978
OH				
	Akron	CAK	14895	1949-1978
	Cincinnati	CVG	93814	1948-1978
	Cleveland	CLE	14820	1948-1978
	Columbus	CMH	14821	1948-1978
	Dayton	DAY	93815	1948-1978
	Mansfield	MFD	14891	1949-1954 1967-1978
	Toledo	TOL	94830	1959-1978
	Youngstown	YNG	14852	1948-1978
WI				
	Eau Claire	EAU	14991	1950-1978
	Green Bay	GRB	14898	1950-1978
	La Crosse	LSE	14920	1951-1978
	Madison	MSN	14837	1948-1978
	Milwaukee	MKE	14839	1948-1978

* Note: Period of record does not end in 1978.

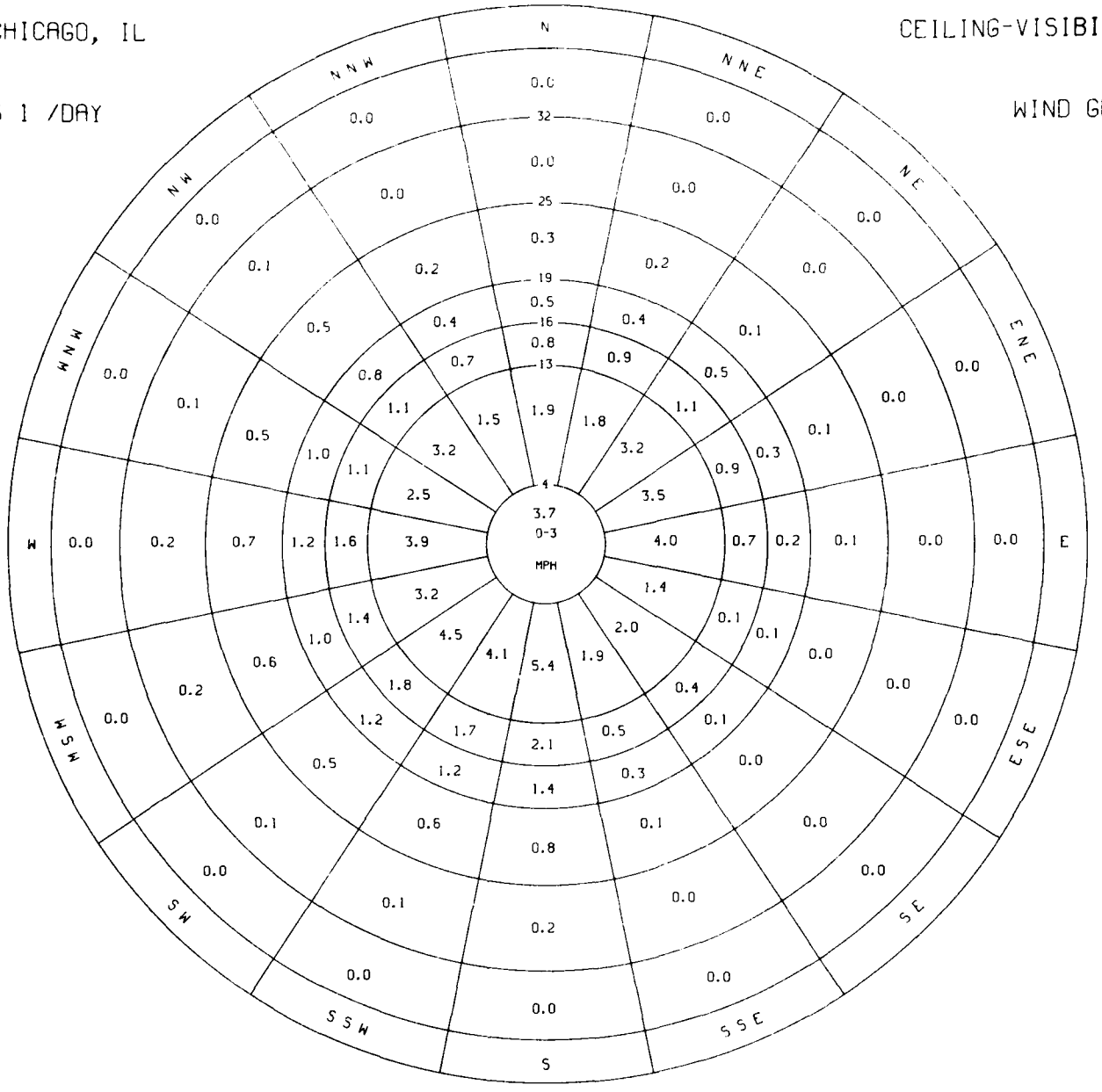
GREAT LAKES REGION (AGL)

MDW CHICAGO, IL

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 1 / EA1

STATION NUMBER: 14819

NO. OBS.: 41057

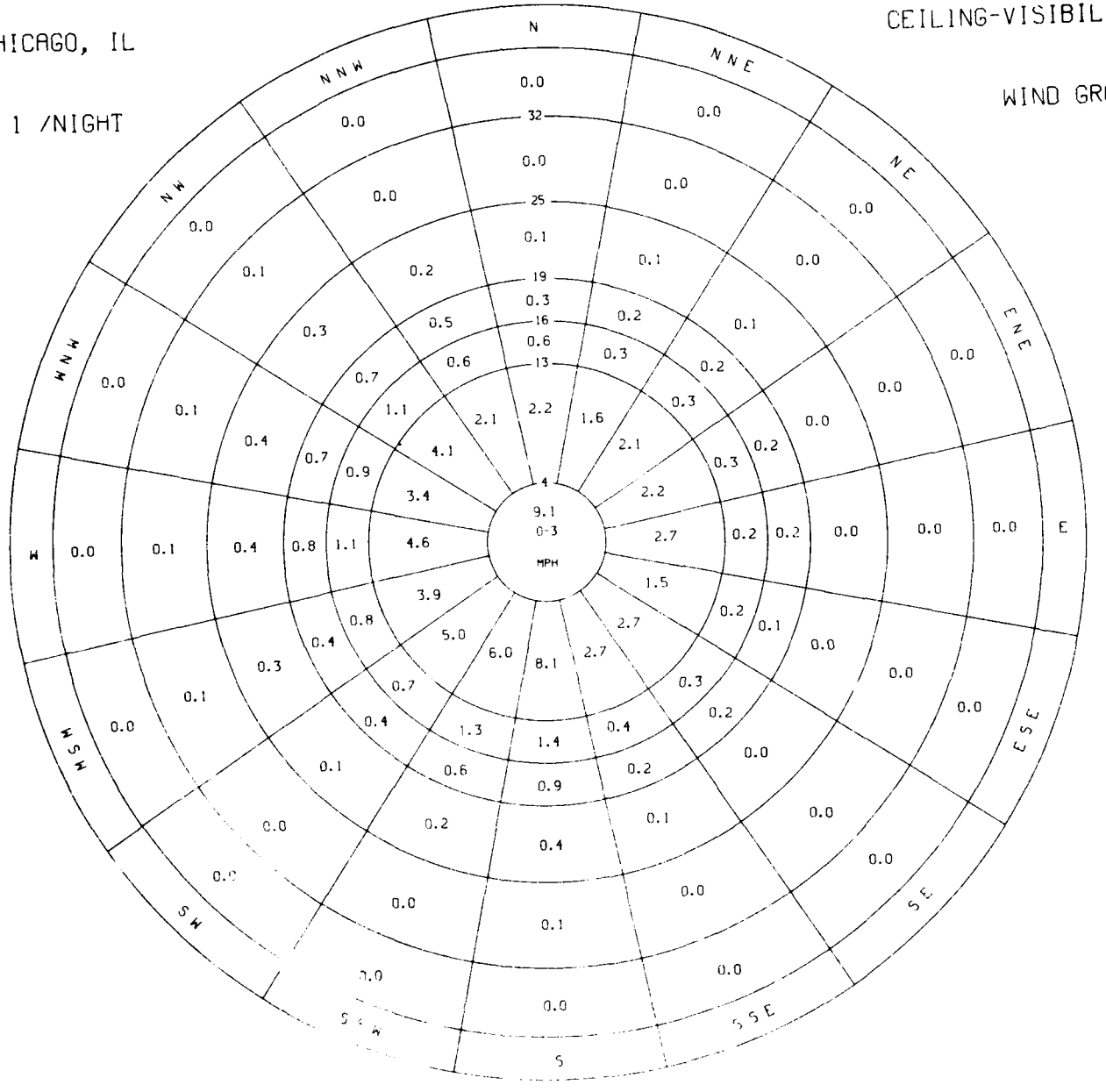
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.1	1.9	2.3	.8	.9	.5	.6	.3	.3	.0	.0	.0	.0	3.6	4.2	12.1
NNE	.1	.1	1.8	2.1	.9	1.0	.4	.5	.2	.2	.0	.0	.0	.0	3.3	3.9	12.0
NE	.2	.2	3.2	3.7	1.1	1.3	.5	.5	.1	.2	.0	.0	.0	.0	5.1	6.0	11.0
ENE	.1	.1	3.5	4.1	.9	1.0	.3	.3	.1	.1	.0	.0	.0	.0	4.8	5.6	10.2
E	.2	.3	4.0	4.6	.7	.8	.2	.2	.1	.1	.0	.0	.0	.0	5.1	6.0	9.5
ESE	.1	.1	1.4	1.6	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.7	2.0	8.7
SE	.2	.2	2.0	2.3	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.1	9.1
SSE	.1	.1	1.9	2.2	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	2.9	3.4	10.4
S	.3	.3	5.4	6.3	2.1	2.5	1.4	1.6	.8	1.0	.2	.2	.0	.0	10.1	11.9	12.2
SSW	.2	.2	4.1	4.8	1.7	2.0	1.2	1.4	.6	.7	.1	.1	.0	.0	7.9	9.3	12.3
SW	.2	.3	4.5	5.3	1.8	2.1	1.2	1.4	.5	.6	.1	.1	.0	.0	8.4	9.8	11.9
WSW	.1	.2	3.2	3.7	1.4	1.7	1.0	1.2	.6	.7	.2	.2	.0	.0	6.5	7.6	12.7
W	.3	.3	3.9	4.6	1.6	1.9	1.2	1.4	.7	.9	.2	.2	.0	.0	7.9	9.3	12.5
WNW	.2	.2	2.5	2.9	1.1	1.3	1.0	1.1	.5	.6	.1	.1	.0	.0	5.3	6.3	12.7
NW	.2	.2	3.2	3.8	1.1	1.3	.8	1.0	.5	.6	.1	.1	.0	.0	6.0	7.0	12.0
NNW	.1	.1	1.5	1.7	.7	.8	.4	.5	.2	.3	.0	.0	.0	.0	2.8	3.3	12.3
CALM	1.1	1.3													1.1	1.3	
TOTAL	3.7	4.4	47.8	56.1	16.8	19.7	10.4	12.2	5.3	6.2	1.0	1.2	.1	.2	85.2	100	11.5

MDW CHICAGO, IL

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH


N
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WSW
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WNW
NW
NNW
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32
0.0
0.0
25
0.1
19
0.3
16
0.6
13
2.1
2.2
1.6
4.1
3.4
4.6
3.9
5.0
6.0
8.1
2.7
1.4
0.9
0.4
0.1
0.0
0.0
0.0

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 14819

NO. OBS.: 35907

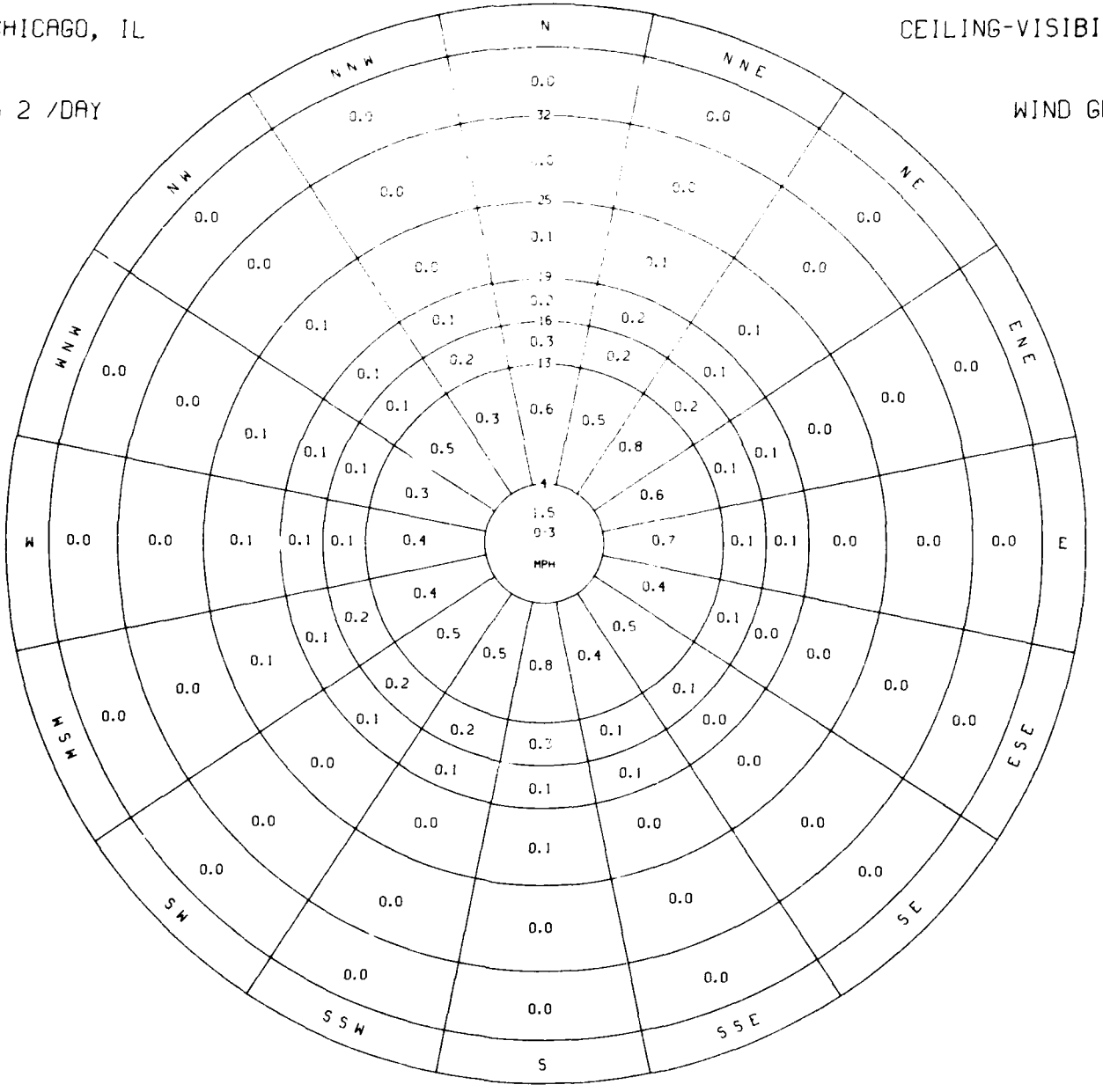
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.2	2.2	2.6	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.4	4.0	10.4
NNE	.2	.2	1.6	1.9	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	2.5	3.0	9.9
NE	.4	.5	2.1	2.5	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	3.3	3.8	9.1
ENE	.4	.4	2.2	2.6	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	3.1	3.7	8.5
E	.7	.8	2.7	3.2	.2	.3	.2	.2	.0	.0	.0	.0	.0	.0	3.8	4.5	7.6
ESE	.4	.4	1.5	1.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.1	2.5	7.6
SE	.6	.7	2.7	3.2	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	3.8	4.5	7.9
SSE	.3	.4	2.7	3.2	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.6	4.3	9.0
S	.8	.9	8.1	9.6	1.4	1.6	.9	1.0	.4	.5	.1	.1	.0	.0	11.7	13.8	9.8
SSW	.4	.4	6.0	7.1	1.3	1.5	.6	.7	.2	.3	.0	.1	.0	.0	8.6	10.1	9.9
SW	.4	.5	5.0	5.9	.7	.8	.4	.4	.1	.1	.0	.0	.0	.0	6.7	7.9	9.0
WSW	.3	.3	3.9	4.6	.8	.9	.4	.5	.3	.3	.1	.1	.0	.0	5.7	6.7	10.3
W	.5	.6	4.6	5.5	1.1	1.3	.8	.9	.4	.5	.1	.1	.0	.0	7.6	9.0	10.8
WNW	.3	.4	3.4	4.0	.9	1.1	.7	.8	.4	.4	.1	.1	.0	.0	5.8	6.9	11.1
NW	.5	.6	4.1	4.9	1.1	1.3	.7	.8	.3	.4	.1	.1	.0	.0	6.7	7.9	10.5
NNW	.1	.2	2.1	2.5	.6	.7	.5	.6	.2	.3	.0	.0	.0	.0	3.7	4.3	11.6
CALM	2.7	3.1													2.7	3.1	
TOTAL	9.1	10.8	55.1	65.0	10.4	12.3	6.5	7.6	2.9	3.5	.6	.7	.1	.1	84.7	100	9.5

MDW CHICAGO, IL

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14819

NO. OBS.: 7135

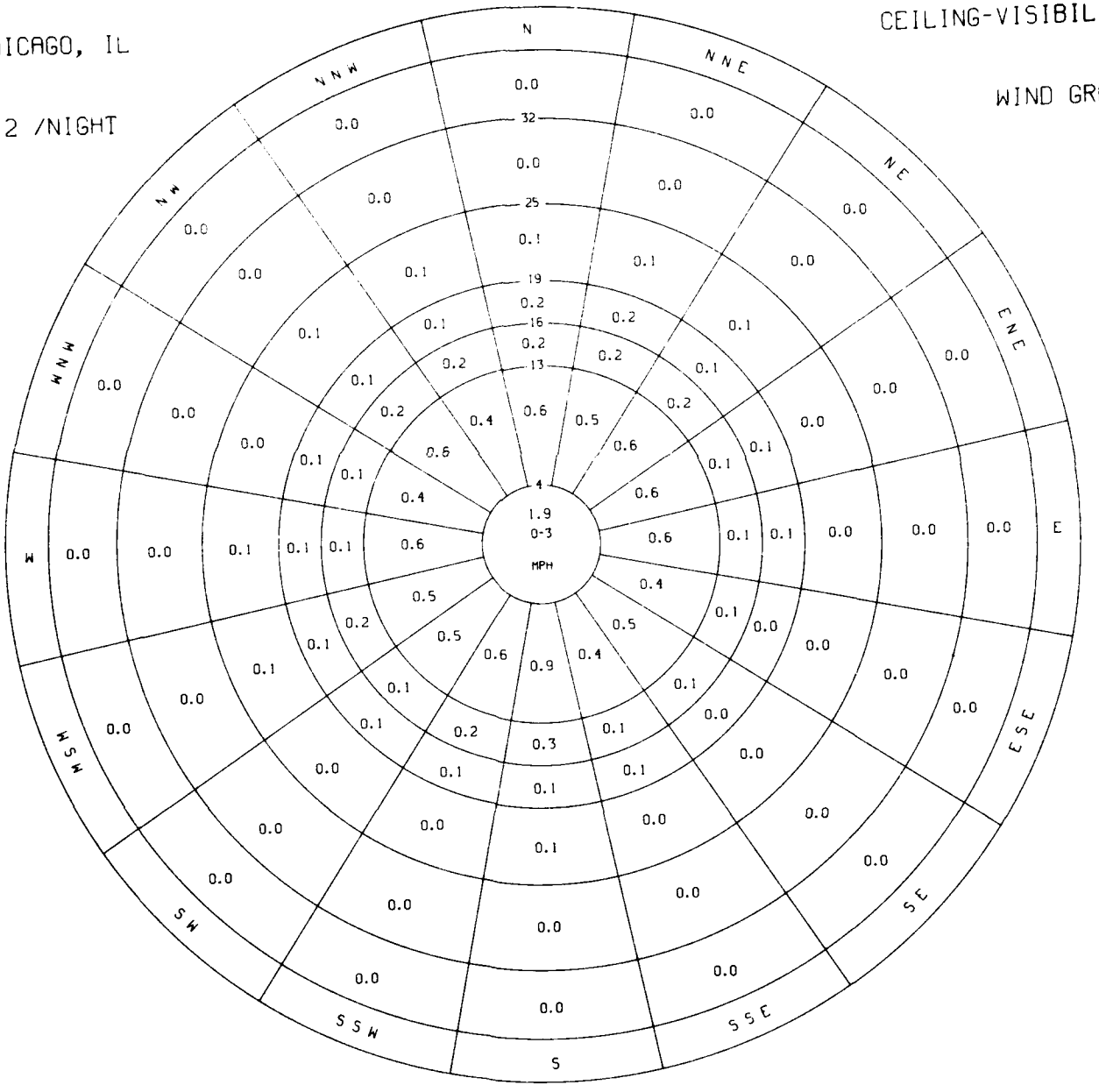
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.6	3.9	.3	1.9	.2	1.1	.1	.9	.0	.2	.0	.0	1.2	8.3	12.6
NNE	.1	.4	.5	3.3	.2	1.3	.2	1.1	.1	.5	.0	.1	.0	.0	1.0	6.6	11.9
NE	.1	.7	.8	5.2	.2	1.4	.1	.8	.1	.4	.0	.1	.0	.0	1.3	8.7	10.5
ENE	.1	.4	.6	4.3	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	1.0	6.6	10.1
E	.1	.8	.7	5.0	.1	.6	.1	.4	.0	.3	.0	.0	.0	.0	1.1	7.2	9.0
ESE	.1	.4	.4	2.7	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.6	3.7	8.7
SE	.1	.7	.5	3.6	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.8	5.3	8.7
SSE	.0	.3	.4	2.7	.1	.5	.1	.4	.0	.2	.0	.0	.0	.0	.6	4.2	10.1
S	.1	.5	.8	5.6	.3	1.9	.1	1.0	.1	.5	.0	.1	.0	.0	1.4	9.5	10.8
SSW	.1	.4	.5	3.3	.2	1.1	.1	.5	.0	.3	.0	.0	.0	.0	.8	5.7	10.3
SW	.0	.3	.5	3.3	.2	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.8	5.6	11.2
WSW	.0	.3	.4	2.7	.2	1.1	.1	.7	.1	.4	.0	.1	.0	.0	.8	5.4	12.0
W	.1	.7	.4	2.8	.1	.9	.1	.6	.1	.5	.0	.2	.0	.0	.9	5.7	11.3
WNW	.0	.3	.3	2.1	.1	.7	.1	.6	.1	.4	.0	.0	.0	.0	.6	4.1	11.3
NW	.1	.5	.5	3.4	.1	.9	.1	.6	.1	.4	.0	.1	.0	.0	.9	5.9	10.8
NNW	.0	.3	.3	2.3	.2	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.7	4.8	12.0
CALM	.4	2.6													.4	2.6	
TOTAL	1.5	9.9	8.3	55.2	2.5	16.6	1.5	10.4	.8	5.6	.2	1.1	.0	.2	14.8	100	10.5

MDW CHICAGO, IL

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 14819

NO. OBS.: 6475

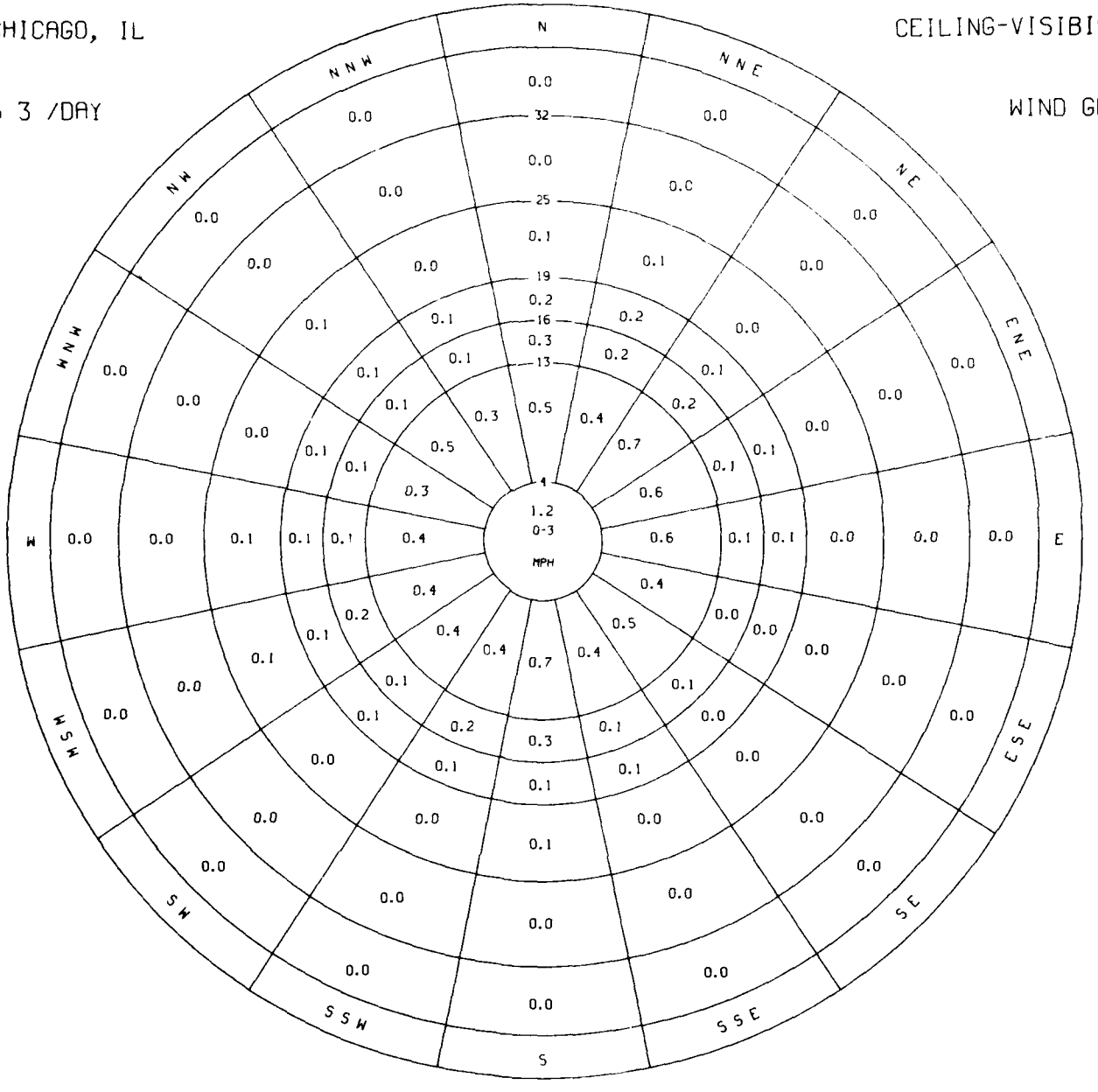
DIR	SPEED GROUPS (MPH) 0-3 A	0-3 B	4-12 A	4-12 B	13-15 A	13-15 B	16-18 A	16-18 B	19-24 A	19-24 B	25-31 A	25-31 B	32+ A	32+ B	TOTAL C	TOTAL D	AVG WIND SPEED
N	.0	.2	.6	3.9	.2	1.5	.2	1.3	.1	.6	.0	.2	.0	.0	1.2	7.7	12.5
NNE	.1	.5	.5	3.2	.2	1.4	.2	1.1	.1	.5	.0	.1	.0	.0	1.0	6.8	11.8
NE	.1	.8	.6	3.8	.2	1.2	.1	.9	.1	.5	.0	.2	.0	.0	1.1	7.4	11.3
ENE	.1	.6	.6	3.9	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.9	6.2	9.9
E	.1	.8	.6	3.9	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.9	6.2	9.0
ESE	.1	.6	.4	2.4	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.5	8.2
SE	.1	.9	.5	3.3	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.8	5.1	8.3
SSE	.1	.4	.4	2.6	.1	.4	.1	.4	.0	.1	.0	.0	.0	.0	.6	3.9	9.8
S	.1	.6	.9	5.6	.3	1.7	.1	.8	.1	.4	.0	.0	.0	.0	1.4	9.1	10.4
SSW	.1	.5	.6	3.8	.2	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.9	6.2	10.2
SW	.1	.4	.5	3.3	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.8	5.3	10.5
WSW	.0	.3	.5	3.2	.2	1.0	.1	.8	.1	.4	.0	.1	.0	.0	.9	5.8	11.7
W	.1	.7	.6	3.7	.1	.8	.1	.8	.1	.6	.0	.2	.0	.0	1.1	6.9	11.2
WNW	.1	.5	.4	2.6	.1	.8	.1	.4	.0	.2	.0	.0	.0	.0	.7	4.6	10.6
NW	.1	.7	.6	3.7	.2	1.0	.1	.8	.1	.5	.0	.1	.0	.0	1.0	6.8	10.8
NNW	.0	.3	.4	2.7	.2	1.1	.1	.7	.1	.4	.0	.1	.0	.0	.8	5.2	11.9
CALM	.5	3.3													.5	3.3	
TOTAL	1.9	12.1	8.5	55.4	2.3	15.1	1.6	10.7	.8	5.3	.2	1.2	.0	.2	15.3	100	10.3

MDW CHICAGO, IL

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 14819

NO. OBS.: 6374

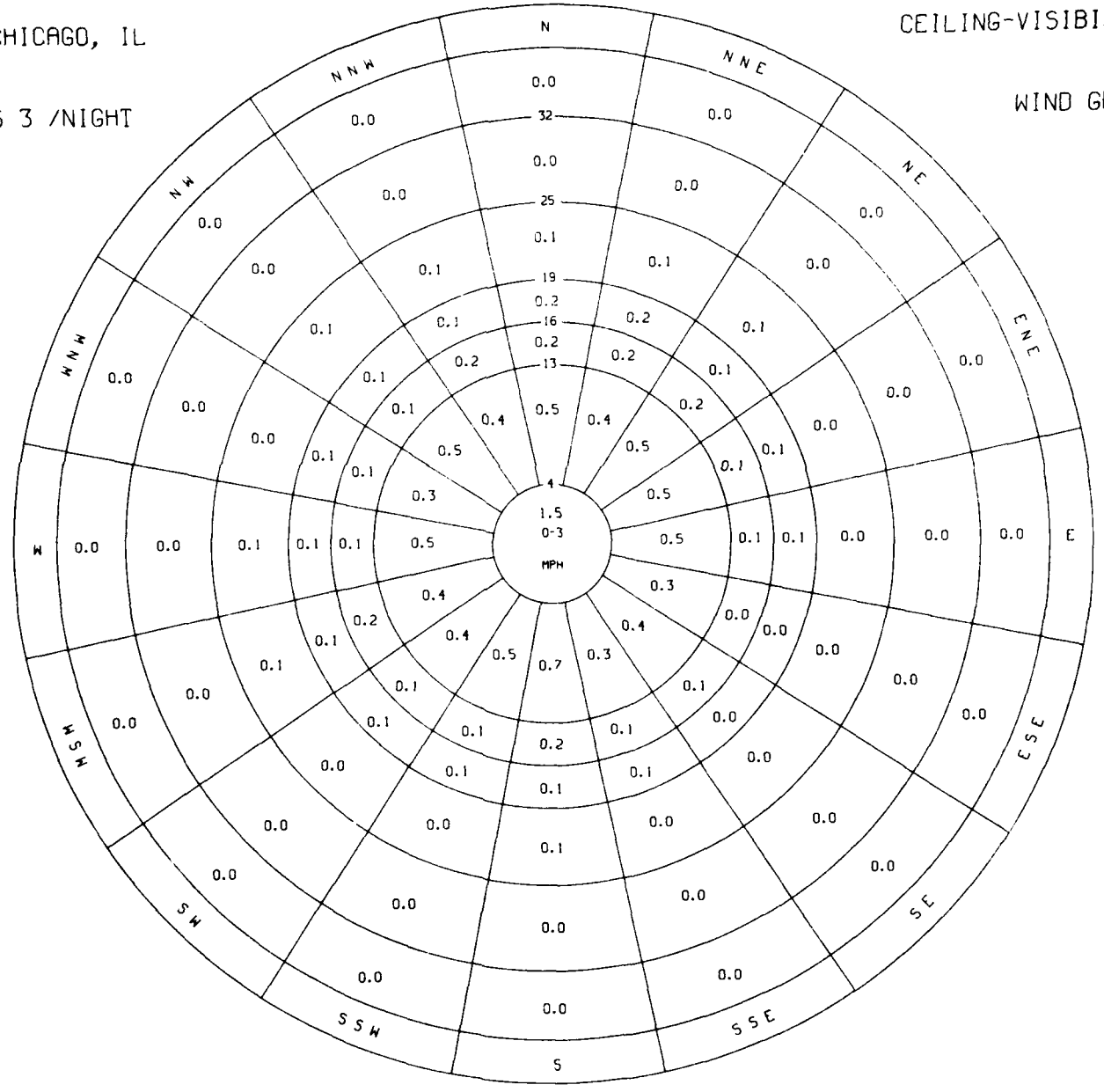
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.5	3.8	.3	2.0	.2	1.2	.1	.9	.0	.2	.0	.0	1.1	8.5	12.8
NNE	.0	.3	.4	3.1	.2	1.3	.2	1.2	.1	.6	.0	.1	.0	.0	.9	6.6	12.4
NE	.1	.5	.7	5.0	.2	1.5	.1	.8	.0	.3	.0	.1	.0	.0	1.1	8.4	10.7
ENE	.0	.3	.6	4.2	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.8	6.4	10.2
E	.1	.7	.6	4.8	.1	.6	.1	.5	.0	.2	.0	.0	.0	.0	.9	6.8	9.1
ESE	.1	.4	.4	2.7	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.5	3.8	8.7
SE	.1	.6	.5	3.4	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.7	5.1	9.0
SSE	.0	.2	.4	2.7	.1	.6	.1	.5	.0	.2	.0	.0	.0	.0	.6	4.2	10.4
S	.1	.5	.7	5.3	.3	2.0	.1	1.0	.1	.5	.0	.1	.0	.0	1.3	9.5	11.1
SSW	.1	.4	.4	3.3	.2	1.2	.1	.5	.0	.3	.0	.0	.0	.0	.8	5.7	10.6
SW	.0	.2	.4	3.3	.1	1.1	.1	.8	.0	.3	.0	.1	.0	.0	.8	5.8	11.4
WSW	.0	.3	.4	2.7	.2	1.3	.1	.8	.1	.4	.0	.1	.0	.0	.7	5.6	12.1
W	.1	.6	.4	2.9	.1	1.0	.1	.6	.1	.6	.0	.2	.0	.0	.8	6.0	11.6
WNW	.0	.3	.3	2.1	.1	.8	.1	.6	.0	.4	.0	.0	.0	.0	.6	4.2	11.5
NW	.1	.5	.5	3.5	.1	1.0	.1	.7	.1	.5	.0	.1	.0	.0	.8	6.3	10.9
NNW	.0	.2	.3	2.3	.1	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.6	4.7	12.1
CALM	.3	2.5													.3	2.5	
TOTAL	1.2	9.0	7.3	55.3	2.3	17.5	1.5	11.2	.8	5.7	.1	1.1	.0	.2	13.2	100	10.7

MDW CHICAGO, IL

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14819

NO. OBS.: 5739

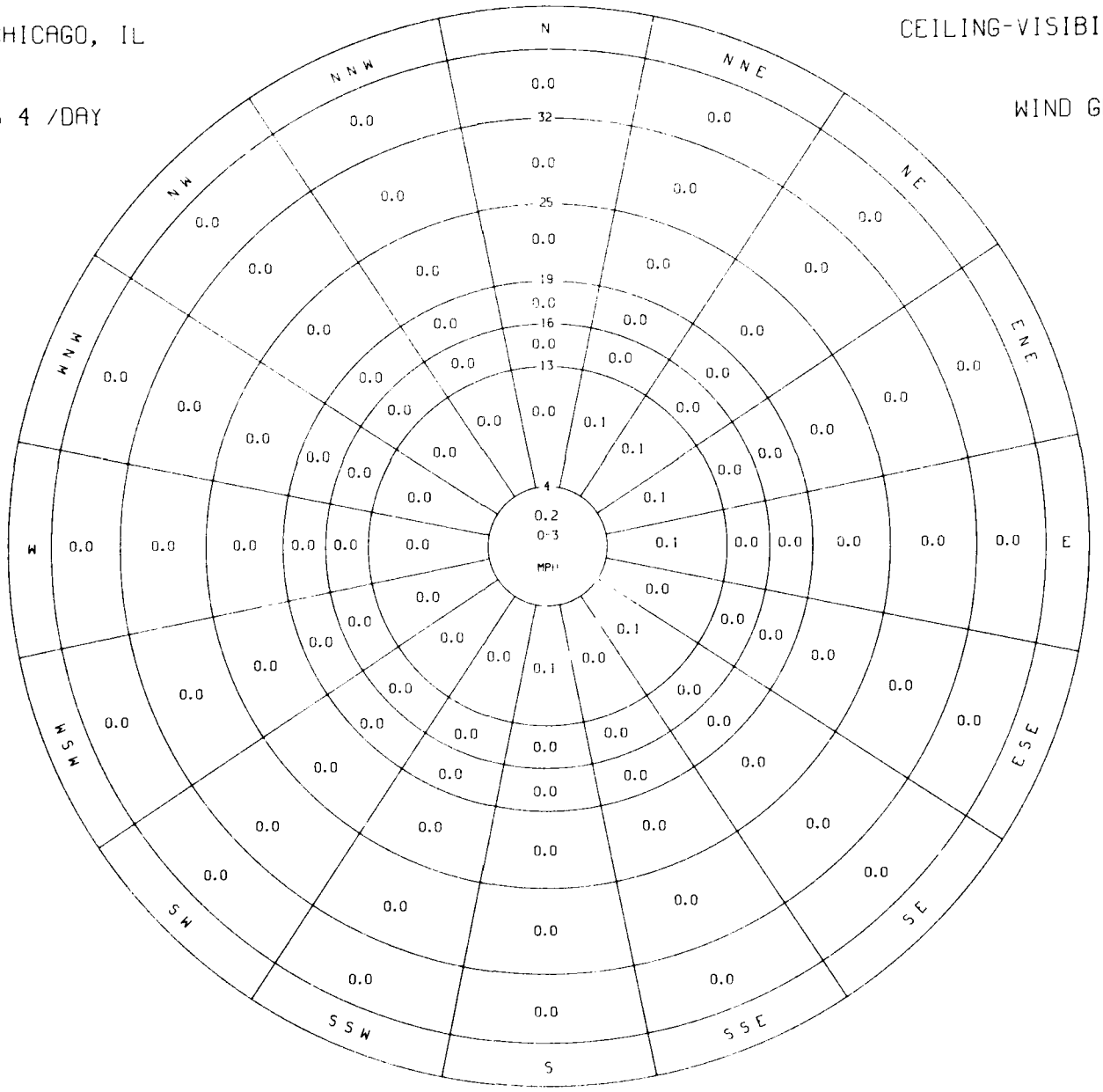
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.5	4.0	.2	1.5	.2	1.4	.1	.7	.0	.1	.0	.0	1.1	7.9	12.6
NNE	.1	.5	.4	3.2	.2	1.5	.2	1.2	.1	.5	.0	.1	.0	.0	.9	6.9	11.9
NE	.1	.7	.5	3.8	.2	1.3	.1	1.0	.1	.5	.0	.2	.0	.0	1.0	7.7	11.4
ENE	.1	.6	.5	3.9	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.8	6.2	10.0
E	.1	.9	.5	3.7	.1	.7	.1	.5	.0	.2	.0	.1	.0	.0	.8	6.1	9.1
ESE	.1	.6	.3	2.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.4	8.2
SE	.1	.8	.4	3.2	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.7	4.9	8.5
SSE	.0	.3	.3	2.3	.1	.5	.1	.4	.0	.2	.0	.0	.0	.0	.5	3.6	10.3
S	.1	.5	.7	5.0	.2	1.8	.1	.9	.1	.5	.0	.1	.0	.0	1.2	8.7	10.8
SSW	.1	.5	.5	3.6	.1	1.1	.1	.6	.0	.2	.0	.0	.0	.0	.8	6.0	10.4
SW	.0	.3	.4	3.3	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.3	10.9
WSW	.0	.2	.4	3.0	.2	1.1	.1	.9	.1	.5	.0	.1	.0	.0	.8	5.8	12.1
W	.1	.7	.5	4.0	.1	1.0	.1	.9	.1	.7	.0	.2	.0	.0	1.0	7.4	11.4
WNW	.1	.4	.3	2.5	.1	.9	.1	.5	.0	.2	.0	.0	.0	.0	.6	4.5	11.0
NW	.1	.7	.5	3.9	.1	1.1	.1	.8	.1	.5	.0	.1	.0	.0	1.0	7.2	11.0
NNW	.0	.3	.4	2.8	.2	1.1	.1	.8	.1	.4	.0	.1	.0	.0	.7	5.5	12.2
CALM	.4	3.0													.4	3.0	
TOTAL	1.5	11.2	7.4	54.3	2.2	16.0	1.5	11.4	.8	5.7	.2	1.2	.0	.1	13.5	100	10.6

MDW CHICAGO, IL

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14819

NO. OBS.: 571

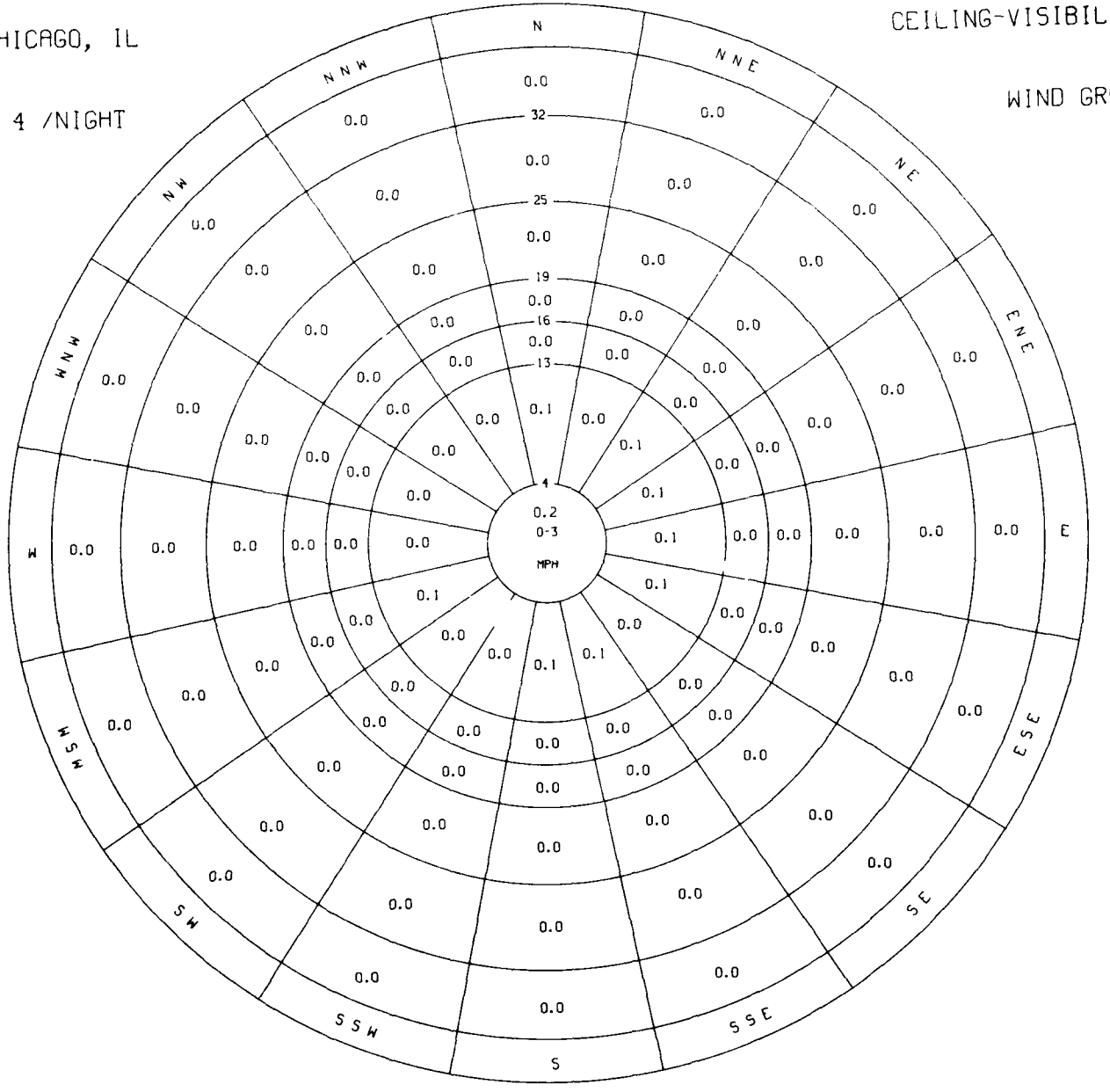
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.0	3.7	.0	.9	.0	.5	.0	.9	.0	.0	.0	.0	.1	6.3	11.2
NNE	.0	.5	.1	4.9	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.7	8.6
NE	.0	1.8	.1	7.4	.0	.9	.0	.5	.0	.5	.0	.2	.0	.0	.1	11.2	8.9
ENE	.0	1.2	.1	5.4	.0	1.4	.0	.9	.0	.2	.0	.0	.0	.0	.1	9.1	9.3
E	.0	1.6	.1	8.8	.0	.4	.0	.5	.0	.7	.0	.0	.0	.0	.1	11.9	8.5
ESE	.0	.7	.0	2.1	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.3	8.5
SE	.0	.9	.1	4.9	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.3	7.6
SSE	.0	.7	.0	3.0	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.1	4.4	8.8
S	.0	.4	.1	6.7	.0	1.2	.0	.5	.0	.2	.0	.0	.0	.0	.1	8.9	9.6
SSW	.0	.9	.0	2.8	.0	1.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	5.4	9.3
SW	.0	.4	.0	3.3	.0	.7	.0	.2	.0	.2	.0	.0	.0	.0	.1	4.7	9.4
WSW	.0	.4	.0	2.5	.0	.2	.0	.2	.0	.4	.0	.4	.0	.0	.0	3.9	11.6
W	.0	.7	.0	2.1	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	3.3	7.5
WNW	.0	.4	.0	2.6	.0		.0	.2	.0	.2	.0	.2	.0	.2	.0	3.7	9.6
NW	.0	.4	.0	1.4	.0		.0	.0	.0	.2	.0	.0	.0	.0	.0	1.9	8.3
NNW	.0	.5	.0	3.2	.0	1.	.0	.5	.0	.2	.0	.5	.0	.0	.1	6.3	11.8
CALM	.0	2.6													.0	2.6	
TOTAL	.2	14.2	.8	64.6	.1	10.9	.1	5.3	.0	3.7	.0	1.2	.0	.2	1.2	100	9.0

MDW CHICAGO, IL

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14819

NO. OBS.: 528

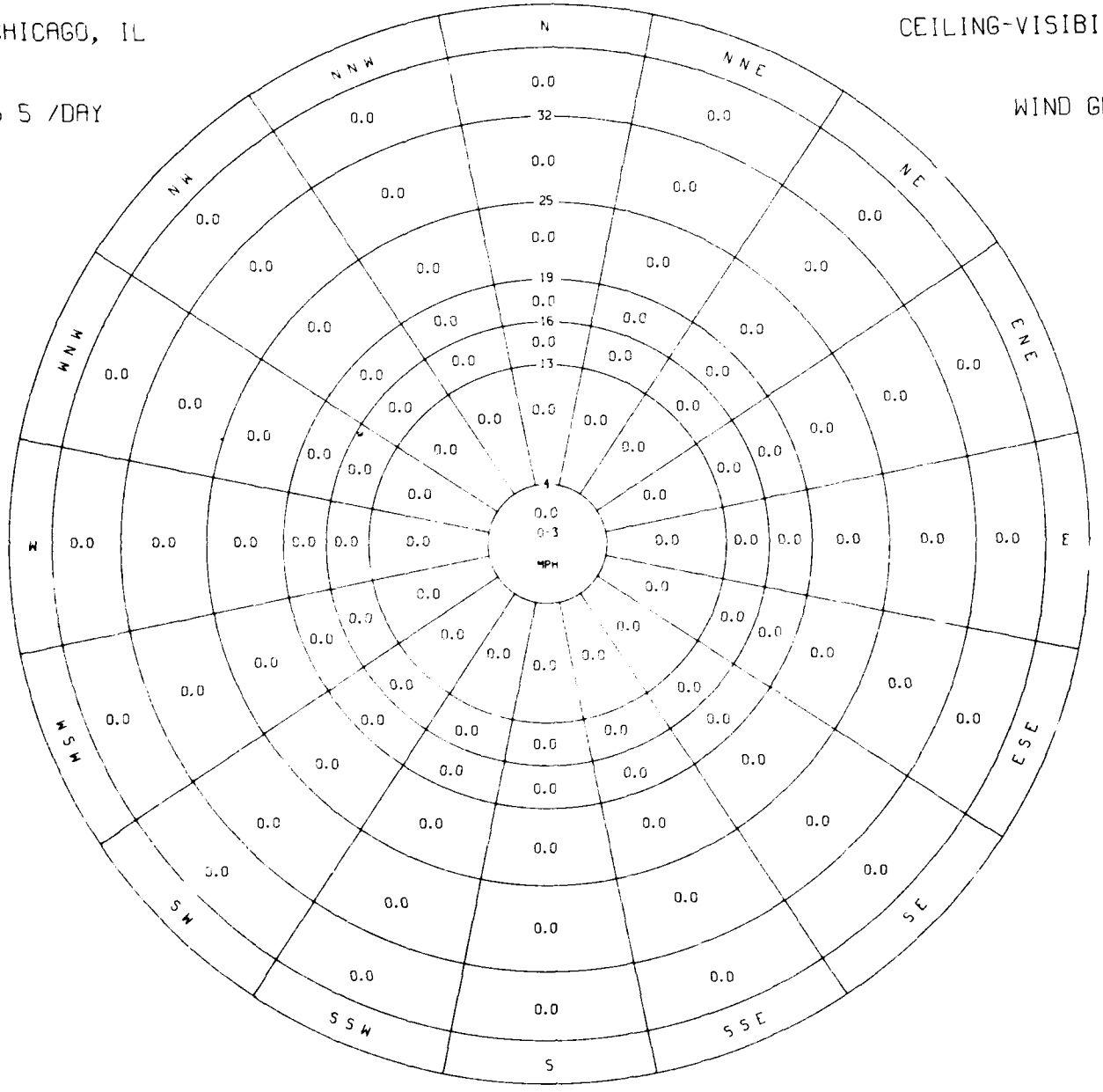
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.1	4.7	.0	1.5	.0	.8	.0	.4	.0	.4	.0	.0	.1	7.8	12.0
NNE	.0	.6	.0	3.6	.0	1.1	.0	.6	.0	.8	.0	.0	.0	.0	.1	6.6	10.6
NE	.0	.8	.1	4.2	.0	.4	.0	.4	.0	.4	.0	.2	.0	.2	.1	6.4	10.2
ENE	.0	.8	.1	4.4	.0	.8	.0	.6	.0	.4	.0	.0	.0	.0	.1	6.8	9.4
E	.0	.0	.1	5.3	.0	.8	.0	.6	.0	.0	.0	.0	.0	.0	.1	6.6	8.5
ESE	.0	.4	.1	4.4	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.1	5.5	8.7
SE	.0	1.7	.0	3.6	.0	.6	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.1	7.3
SSE	.0	.9	.1	5.1	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.4	7.9
S	.0	.4	.1	9.5	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.1	11.7	9.0
SSW	.0	.8	.0	4.0	.0	.8	.0	.9	.0	.2	.0	.2	.0	.0	.1	6.8	9.9
SW	.0	.8	.0	2.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.5
WSW	.0	.4	.1	4.4	.0	.4	.0	.4	.0	.0	.0	.2	.0	.0	.1	5.7	9.7
W	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	2.7	7.9
WNW	.0	.4	.0	2.7	.0	.0	.0	.4	.0	.0	.0	.2	.0	.0	.0	3.6	9.1
NW	.0	.2	.0	2.5	.0	.6	.0	.4	.0	.2	.0	.0	.0	.0	.0	3.8	9.8
NNW	.0	.8	.0	2.1	.0	.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	3.8	8.5
CALM	.1	5.9													.1	5.9	
TOTAL	.2	15.2	.8	65.0	.1	9.5	.1	6.3	.0	2.7	.0	1.1	.0	.4	1.2	100	8.7

MDW CHICAGO, IL

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14819

NO. OBS.: 113

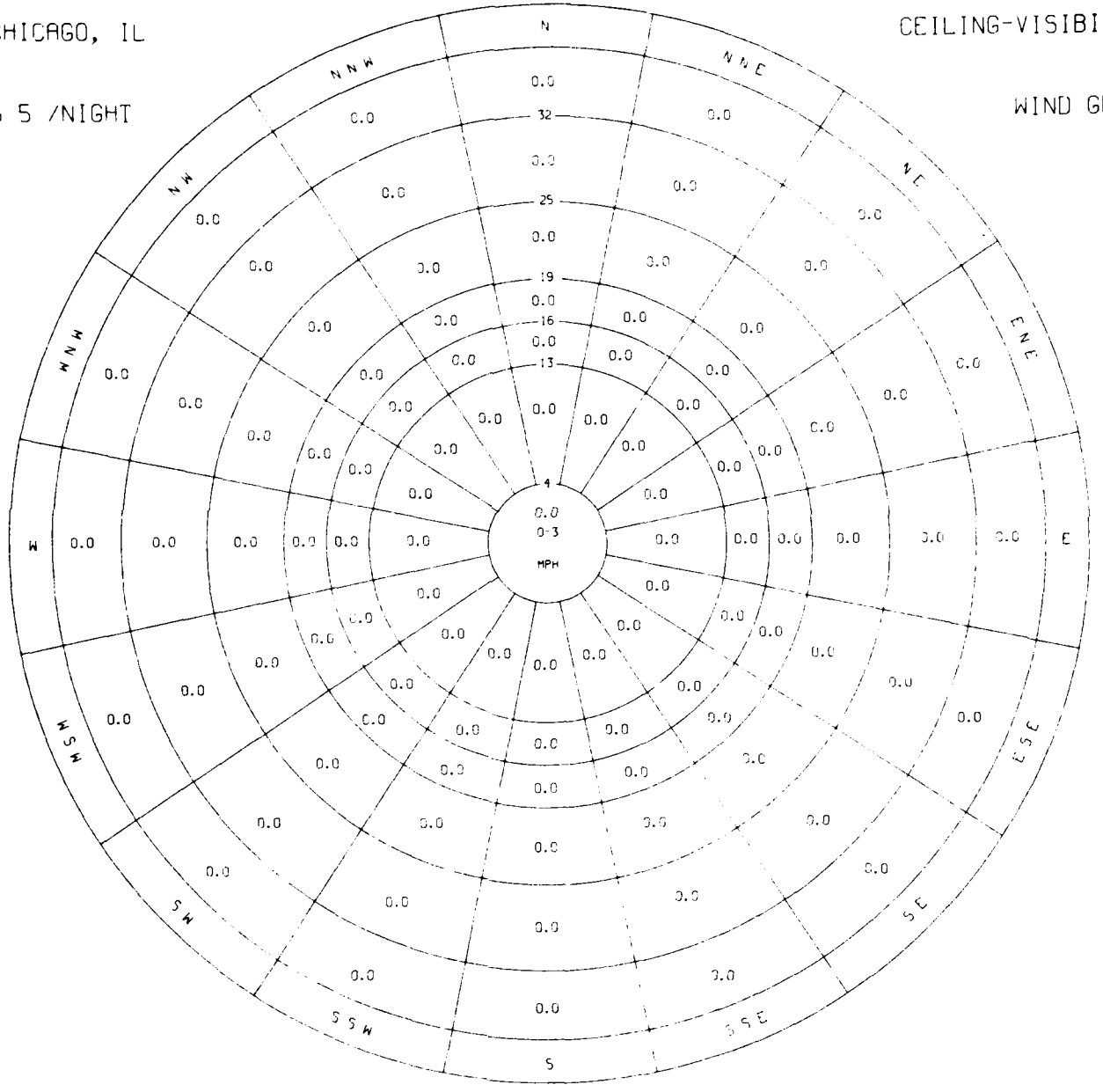
DIR	SPEED GROUPS (MPH) 0-3 A	0-3 B	4-12 A	4-12 B	13-15 A	13-15 B	16-18 A	16-18 B	19-24 A	19-24 B	25-31 A	25-31 B	32+ A	32+ B	TOTAL C	TOTAL D	AVG WIND SPEED
N	.0	1.8	.0	7.1	.0	1.8	.0	.0	.0	.0	.0	.9	.0	.0	.0	11.5	9.3
NNE	.0	2.7	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	5.1
NE	.0	2.7	.0	5.3	.0	.0	.0	.9	.0	3.5	.0	.9	.0	.0	.0	13.3	12.3
ENE	.0	.9	.0	6.2	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	8.0	9.1
E	.0	1.8	.0	4.4	.0	1.8	.0	.0	.0	.9	.0	.0	.0	.0	.0	8.8	9.8
ESE	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	7.3
SE	.0	1.8	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.5
SSE	.0	.9	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	4.7
S	.0	.0	.0	10.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5	8.5
SSW	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	8.0
SW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	4.0
WSW	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	8.3
W	.0	.9	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	4.7
WNW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	1.8	13.0
NW	.0	.9	.0	2.7	.0	.0	.0	.9	.0	.9	.0	.9	.0	.0	.0	6.2	13.6
NNW	.0	.9	.0	.7	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	4.4	10.2
CALM	.0	4.4													.0	4.4	
TOTAL	.0	20.4	.1	62.8	.0	4.4	.0	2.7	.0	7.1	.0	2.7	.0	.0	.2	100	8.6

MDW CHICAGO, IL

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14819

NO. OBS.: 89

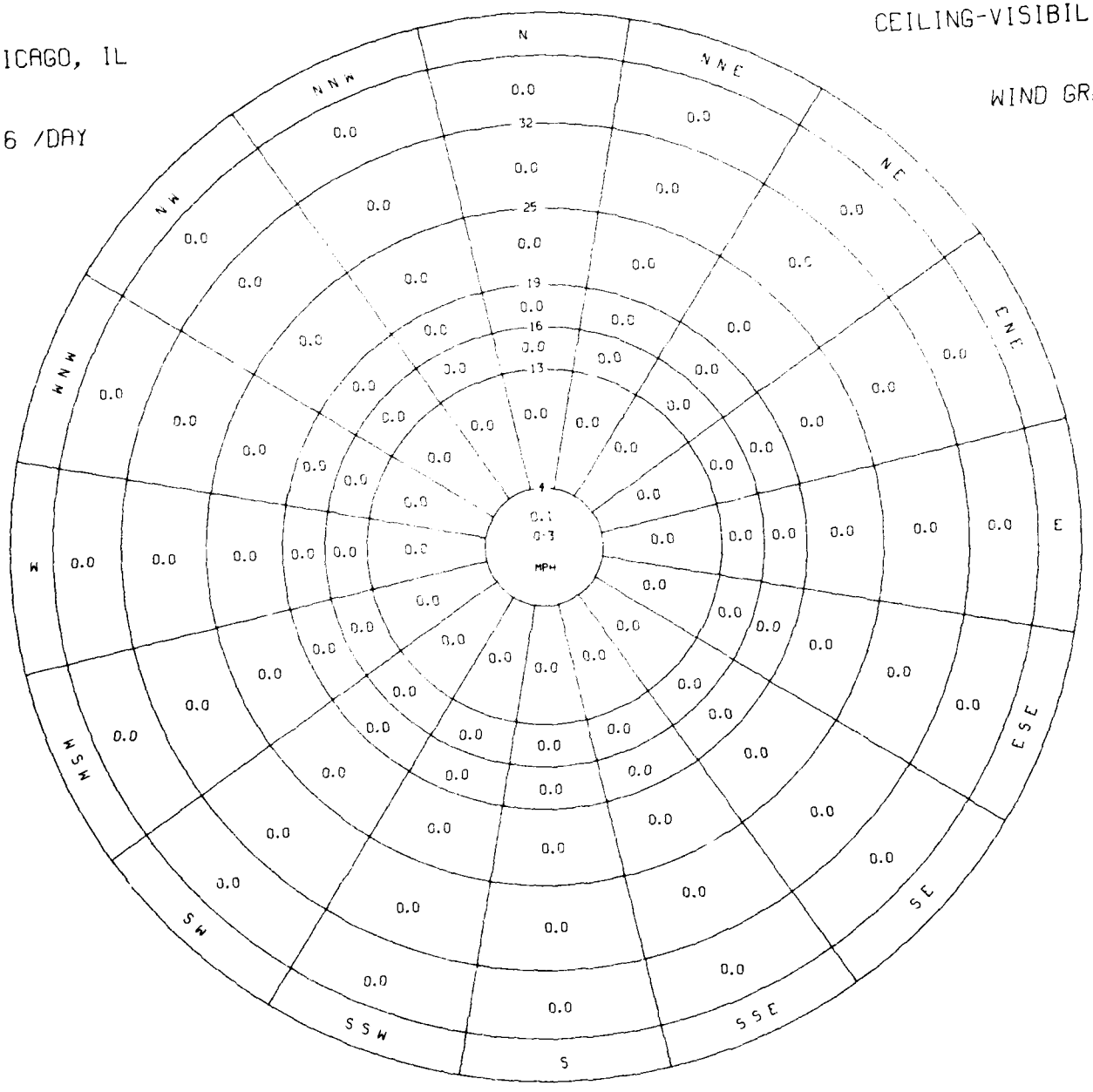
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	11.0
NNE	.0	1.1	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	2.2	.0	.0	.0	6.7	15.0
NE	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	6.3
ENE	.0	.0	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	10.5
E	.0	2.2	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	6.7
ESE	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.5
SE	.0	2.2	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	5.4
SSE	.0	2.2	.0	4.5	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	7.9	7.1
S	.0	1.1	.0	11.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.5	7.8
SSW	.0	1.1	.0	7.9	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	11.2	8.7
SW	.0	1.1	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	6.3
WSW	.0	.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.0
W	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	7.5
WNW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	3.4	15.0
NW	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.0
NNW	.0	.0	.0	2.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	3.4	11.3
CALM	.0	4.5													.0	4.5	
TOTAL	.0	19.1	.1	66.3	.0	7.9	.0	2.2	.0	1.1	.0	2.2	.0	1.1	.2	100	8.0

MDW CHICAGO, IL

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 14819

NO. OBS.: 77

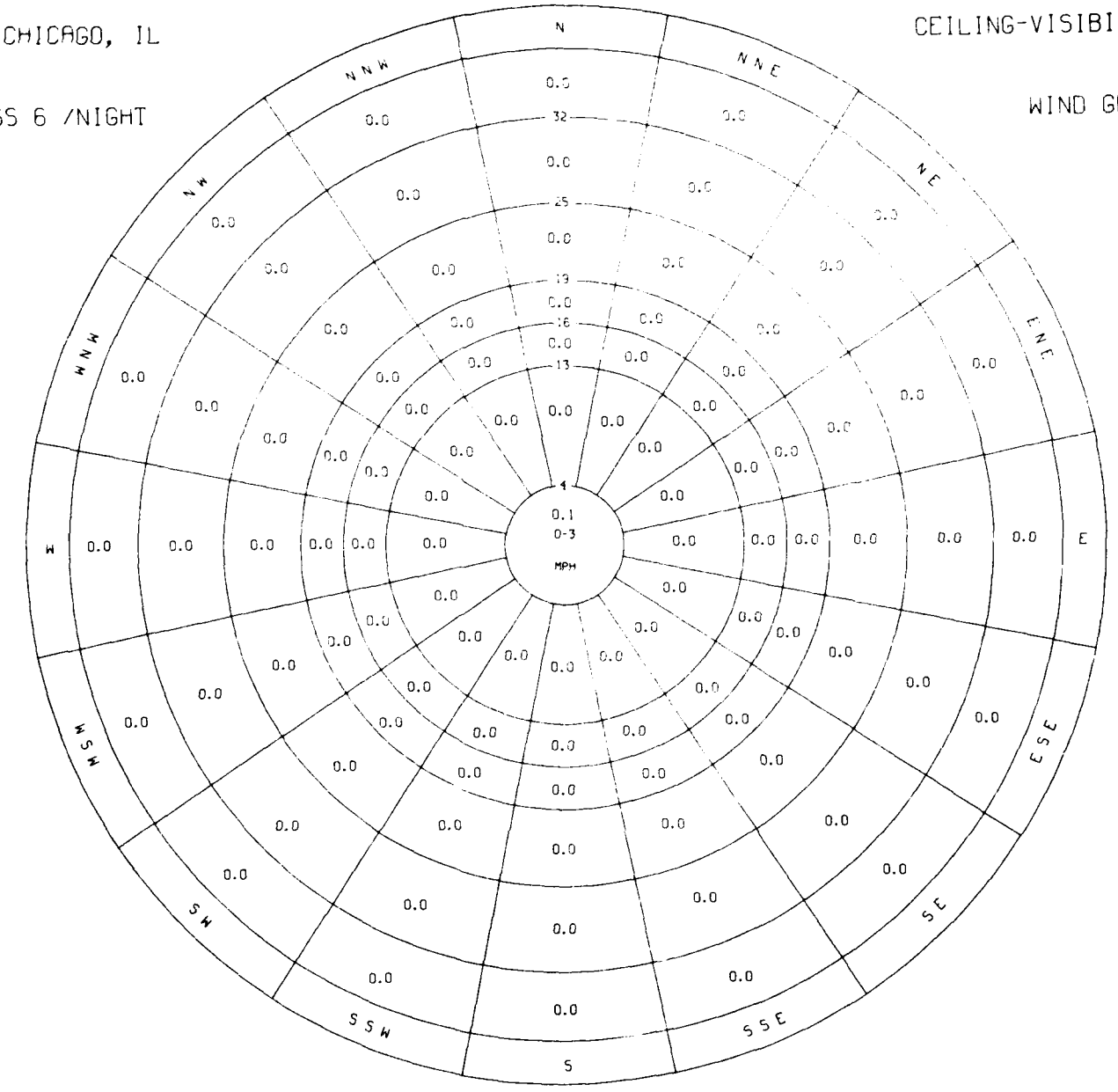
DIR	SPEED GROUPS (MPH)														TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	9.0
NNE	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.0
NE	.0	1.3	.0	2.6	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	5.2	7.5
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	.0	.0	1.3	23.0
E	.0	2.6	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.0
ESE	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	3.5
SE	.0	2.6	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	4.8
SSE	.0	1.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.3
S	.0	1.3	.0	15.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	18.2	8.2
SSW	.0	1.3	.0	9.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.4	6.6
SW	.0	2.6	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	5.6
WSW	.0	1.3	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.0
W	.0	3.9	.0	3.9	.0	.0	.0	.0	.0	.0	.0	1.3	.0	.0	.0	9.1	8.1
WNW	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.0
NW	.0	1.3	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	5.6
NNW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.5
CALM	.0	10.4													.0	10.4	
TOTAL	.1	35.1	.1	59.7	.0	1.3	.0	1.3	.0	1.3	.0	1.3	.0	.0	.2	100	6.0

MDW CHICAGO, IL

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MDW CHICAGO, IL

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14819

NO. OBS.: 119

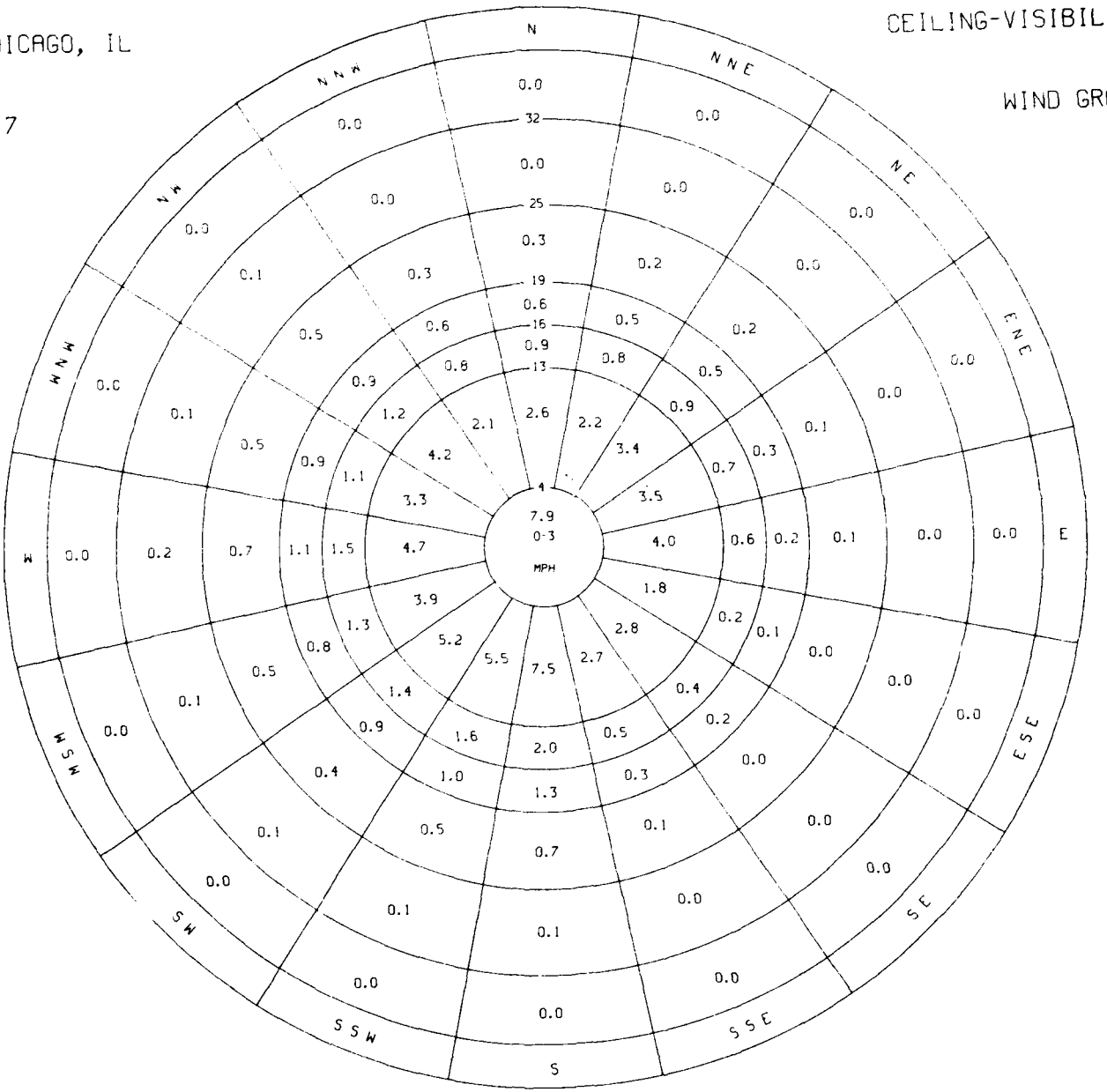
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	9.0
NNE	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	7.5
NE	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	2.0
ENE	.0	1.7	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.0
E	.0	2.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	3.5
ESE	.0	.8	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.7
SE	.0	2.5	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	5.6
SSE	.0	.8	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.0
S	.0	1.7	.0	13.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.0	7.3
SSW	.0	2.5	.0	8.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.8	6.9
SW	.0	4.2	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	5.4
WSW	.0	.8	.0	3.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	6.5
W	.0	.8	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	4.2	10.4
WNW	.0	5.9	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	4.1
NW	.0	2.5	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.0
NNW	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.0
CALM	.0	7.6													.0	7.6	
TOTAL	.1	37.8	.2	58.8	.0	2.5	.0	.0	.0	.0	.0	.8	.0	.0	.3	100	5.5

MDW CHICAGO, IL

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

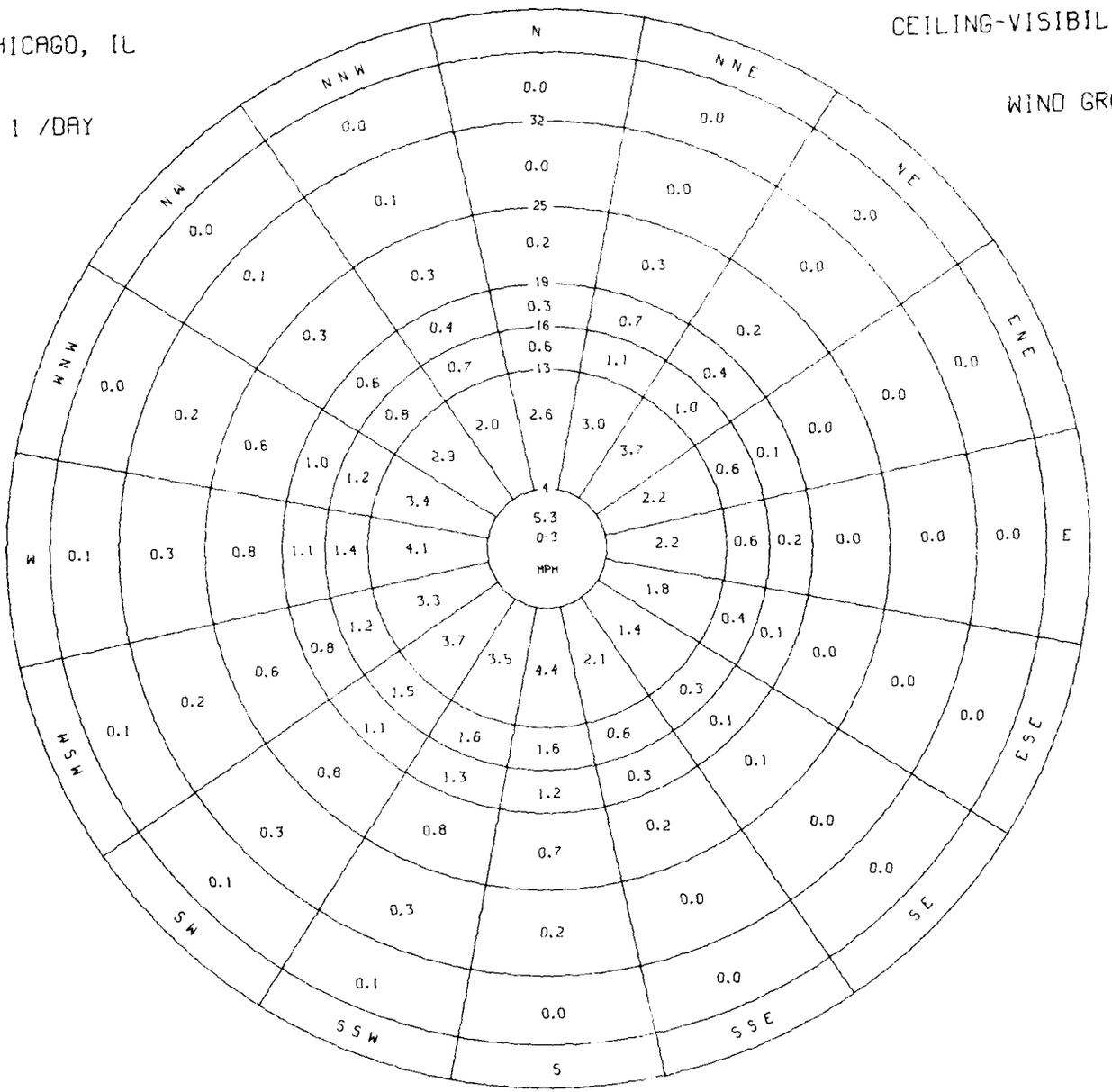


ORD CHICAGO, IL

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 1 / DAY

STATION NUMBER: 94846

NO. OBS.: 39432

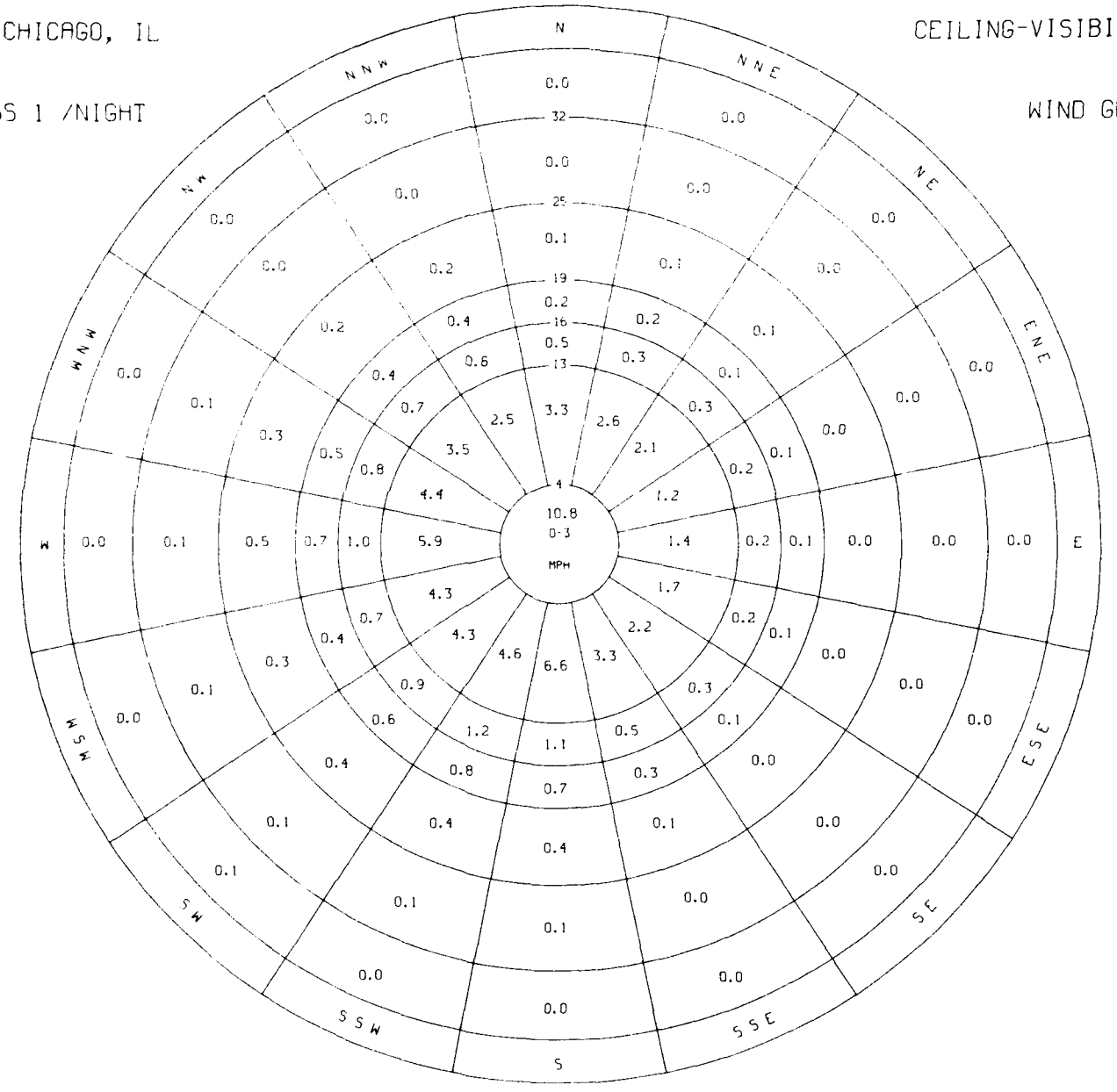
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.3	2.6	3.0	.5	.7	.3	.4	.2	.2	.0	.0	.0	.0	4.0	4.7	10.3
NNE	.2	.2	3.0	3.6	1.1	1.3	.7	.8	.3	.4	.0	.0	.0	.0	5.4	6.3	11.5
NE	.2	.2	3.7	4.4	1.0	1.1	.4	.5	.2	.2	.0	.0	.0	.0	5.5	6.5	10.4
ENE	.1	.1	2.2	2.6	.6	.7	.1	.2	.0	.0	.0	.0	.0	.0	3.1	3.6	10.2
E	.1	.2	2.2	2.7	.6	.7	.2	.2	.0	.1	.0	.0	.0	.0	3.2	3.8	10.0
ESE	.1	.1	1.8	2.1	.4	.4	.1	.1	.0	.1	.0	.0	.0	.0	2.4	2.8	9.8
SE	.1	.1	1.4	1.7	.3	.3	.1	.2	.1	.1	.0	.0	.0	.0	2.0	2.4	9.7
SSE	.1	.2	2.1	2.5	.6	.7	.3	.4	.2	.2	.0	.0	.0	.0	3.4	4.0	10.8
S	.3	.3	4.4	5.2	1.6	1.9	1.2	1.4	.7	.8	.2	.2	.0	.0	8.3	9.9	12.2
SSW	.2	.2	3.5	4.2	1.6	1.9	1.3	1.5	.8	1.0	.3	.4	.1	.1	7.8	9.2	13.3
SW	.2	.2	3.7	4.4	1.5	1.7	1.1	1.3	.8	.9	.3	.4	.1	.1	7.6	9.0	13.0
WSW	.2	.2	3.3	3.9	1.2	1.4	.8	1.0	.6	.7	.2	.3	.1	.1	6.4	7.6	12.7
W	.4	.5	4.1	4.9	1.4	1.6	1.1	1.3	.8	1.0	.3	.4	.1	.2	8.2	9.7	12.7
WNW	.3	.3	3.4	4.0	1.2	1.4	1.0	1.1	.6	.7	.2	.2	.0	.0	6.6	7.8	12.2
NW	.3	.3	2.9	3.4	.8	1.0	.6	.7	.3	.3	.1	.1	.0	.0	4.9	5.8	11.1
NNW	.2	.2	2.0	2.4	.7	.8	.4	.5	.3	.4	.1	.1	.0	.0	3.7	4.3	11.6
CALM	2.2	2.6													2.2	2.6	
TOTAL	5.3	6.3	46.4	54.8	14.9	17.7	9.8	11.6	5.9	7.0	1.8	2.1	.4	.5	84.6	100	11.5

ORD CHICAGO, IL

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH


N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0.0
32
0.0
0.0
25
0.1
19
0.2
16
0.5
13
3.3
2.5
2.6
4
10.8
0-3
MPH
0.0
0.0
0.0

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 1 / NIGHT

STATION NUMBER: 94846

NO. OBS.: 34632

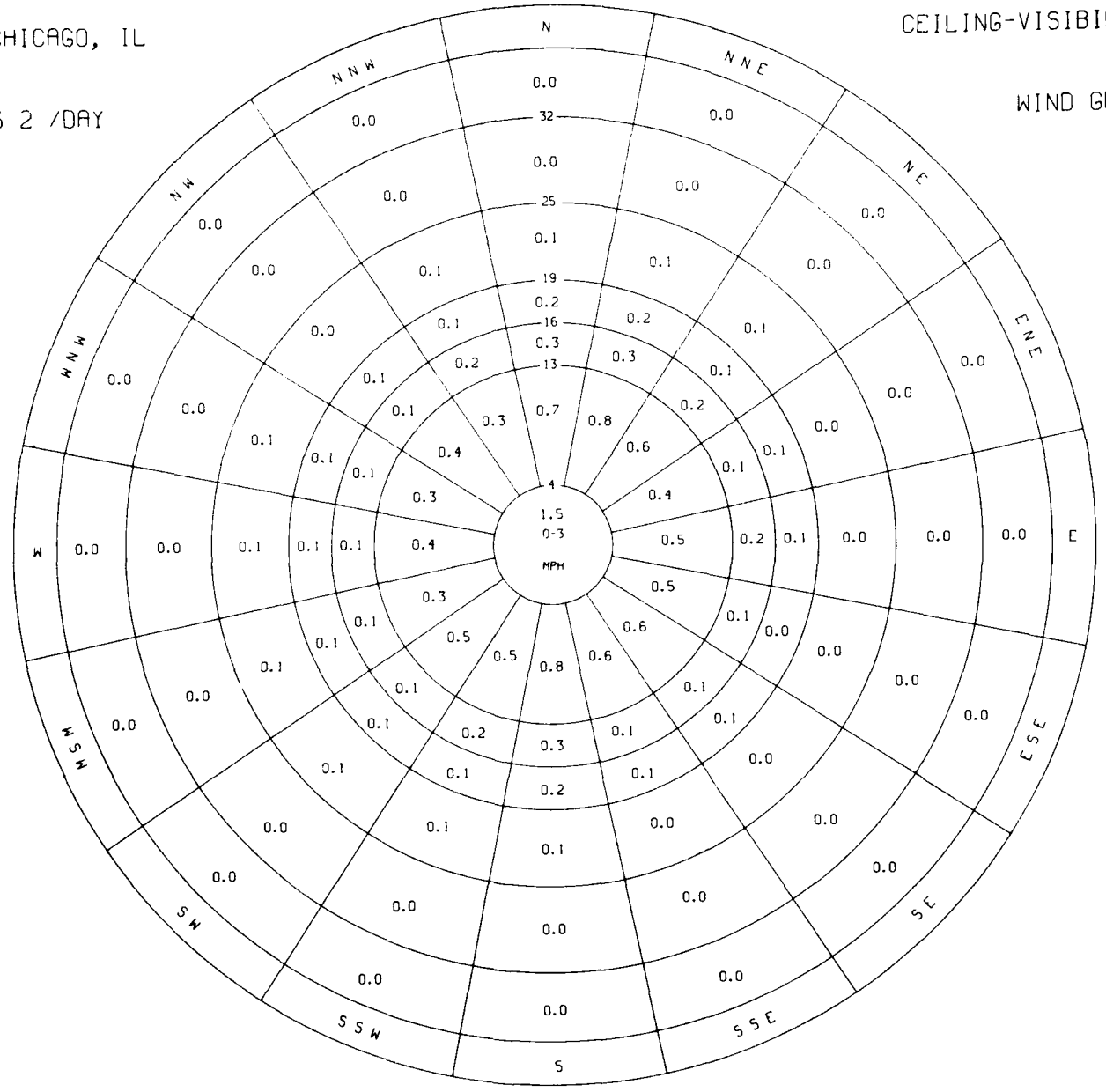
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.6	3.3	3.9	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.5	5.3	8.4
NNE	.3	.4	2.6	3.1	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	3.6	4.3	8.9
NE	.3	.4	2.1	2.5	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	3.0	3.5	8.6
ENE	.1	.1	1.2	1.4	.2	.3	.1	.1	0	.1	.0	.0	.0	.0	1.7	2.0	9.5
E	.2	.2	1.4	1.7	.2	.3	.1	.1	.0	.1	.0	.0	.0	.0	2.0	2.4	9.0
ESE	.1	.2	1.7	2.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.2	2.6	8.6
SE	.2	.3	2.2	2.6	.3	.3	.1	.2	.0	.0	.0	.0	.0	.0	2.9	3.4	8.4
SSE	.3	.3	3.3	3.9	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.5	5.3	9.1
S	.5	.6	6.6	7.8	1.1	1.4	.7	.9	.4	.5	.1	.2	.0	.0	9.5	11.3	10.0
SSW	.4	.4	4.6	5.5	1.2	1.4	.8	.9	.4	.5	.1	.1	.0	.0	7.6	8.9	10.9
SW	.4	.5	4.3	5.1	.9	1.1	.6	.7	.4	.5	.1	.1	.1	.1	6.8	8.0	10.6
WSW	.4	.5	4.3	5.1	.7	.8	.4	.5	.3	.3	.1	.2	.0	.1	6.3	7.5	10.1
W	.7	.8	5.9	7.0	1.0	1.2	.7	.8	.5	.5	.1	.1	.0	.1	8.9	10.6	9.9
WNW	.5	.6	4.4	5.3	.8	.9	.5	.6	.3	.4	.1	.1	.0	.0	6.7	7.9	9.8
NW	.5	.6	3.5	4.1	.7	.8	.4	.5	.2	.3	.0	.1	.0	.0	5.3	6.3	9.5
NNW	.3	.3	2.5	2.9	.6	.8	.4	.5	.2	.2	.0	.0	.0	.0	4.0	4.8	10.4
CALM	5.0	5.9													5.0	5.9	
TOTAL	10.8	12.8	54.0	63.9	9.6	11.3	5.8	6.8	3.3	3.8	.8	1.0	.2	.3	84.5	100	9.1

ORD CHICAGO, IL

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 2 / DAY

STATION NUMBER: 94846

NO. OBS.: 7202

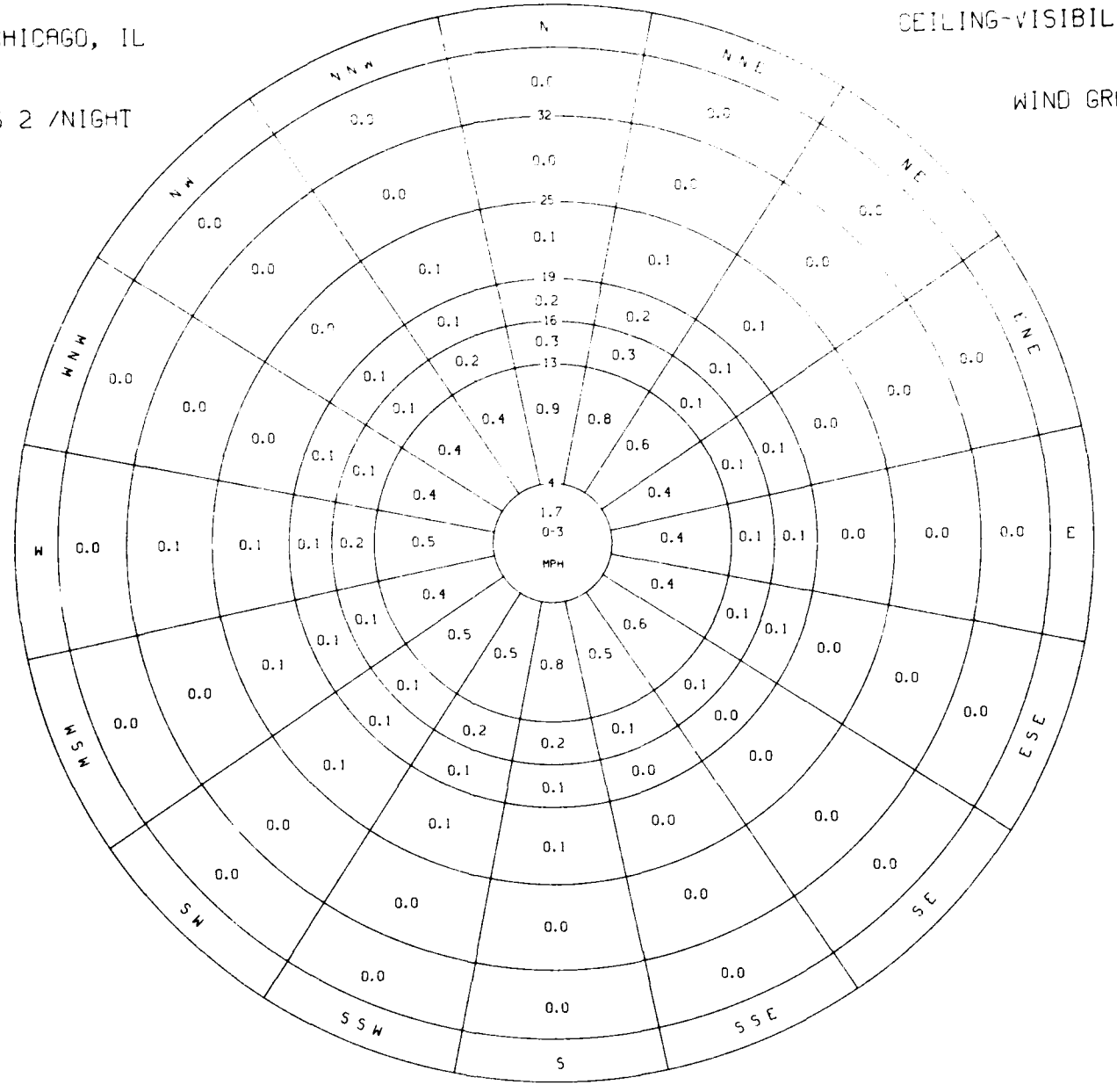
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.7	4.6	.3	1.6	.2	1.2	.1	.7	.0	.1	.0	.0	1.3	8.7	11.6
NNE	.0	.3	.8	5.3	.3	1.9	.2	1.3	.1	.9	.0	.1	.0	.0	1.5	9.9	12.0
NE	.0	.3	.6	4.1	.2	1.4	.1	.7	.1	.6	.0	.1	.0	.0	1.1	7.3	11.4
ENE	.0	.2	.4	2.7	.1	.9	.1	.7	.0	.3	.0	.0	.0	.0	.8	4.9	11.3
E	.0	.2	.5	3.0	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.8	5.0	10.7
ESE	.0	.2	.5	3.3	.1	.7	.0	.3	.0	.2	.0	.0	.0	.0	.7	4.7	10.1
SE	.1	.4	.6	4.0	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.8	5.4	9.5
SSE	.1	.4	.6	3.8	.1	.9	.1	.5	.0	.2	.0	.1	.0	.0	.9	6.0	10.2
S	.1	.6	.8	5.5	.3	1.7	.2	1.1	.1	.5	.0	.1	.0	.0	1.5	9.5	10.9
SSW	.0	.2	.5	3.3	.2	1.0	.1	.6	.1	.5	.0	.1	.0	.0	.9	5.7	11.7
SW	.0	.2	.5	3.3	.1	.9	.1	.6	.1	.6	.0	.1	.0	.1	.9	5.9	11.9
WSW	.0	.3	.3	2.0	.1	.9	.1	.5	.1	.5	.0	.2	.0	.1	.7	4.4	13.1
W	.1	.3	.4	2.4	.1	.8	.1	.6	.1	.5	.0	.2	.0	.1	.8	5.0	12.3
WNW	.0	.3	.3	2.1	.1	.6	.1	.5	.1	.3	.0	.1	.0	.0	.6	4.0	11.7
NW	.1	.4	.4	2.3	.1	.8	.1	.5	.0	.2	.0	.1	.0	.0	.7	4.3	10.8
NNW	.0	.3	.3	2.2	.2	1.0	.1	.7	.1	.5	.0	.1	.0	.0	.7	4.7	12.4
CALM	.7	4.4													.7	4.4	
TOTAL	1.5	9.6	8.3	54.1	2.6	16.9	1.6	10.6	1.1	7.0	.3	1.7	.0	.3	15.4	100	10.8

ORD CHICAGO, IL

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 2 / NIGHT

STATION NUMBER: 94846

NO. OBS.: 6374

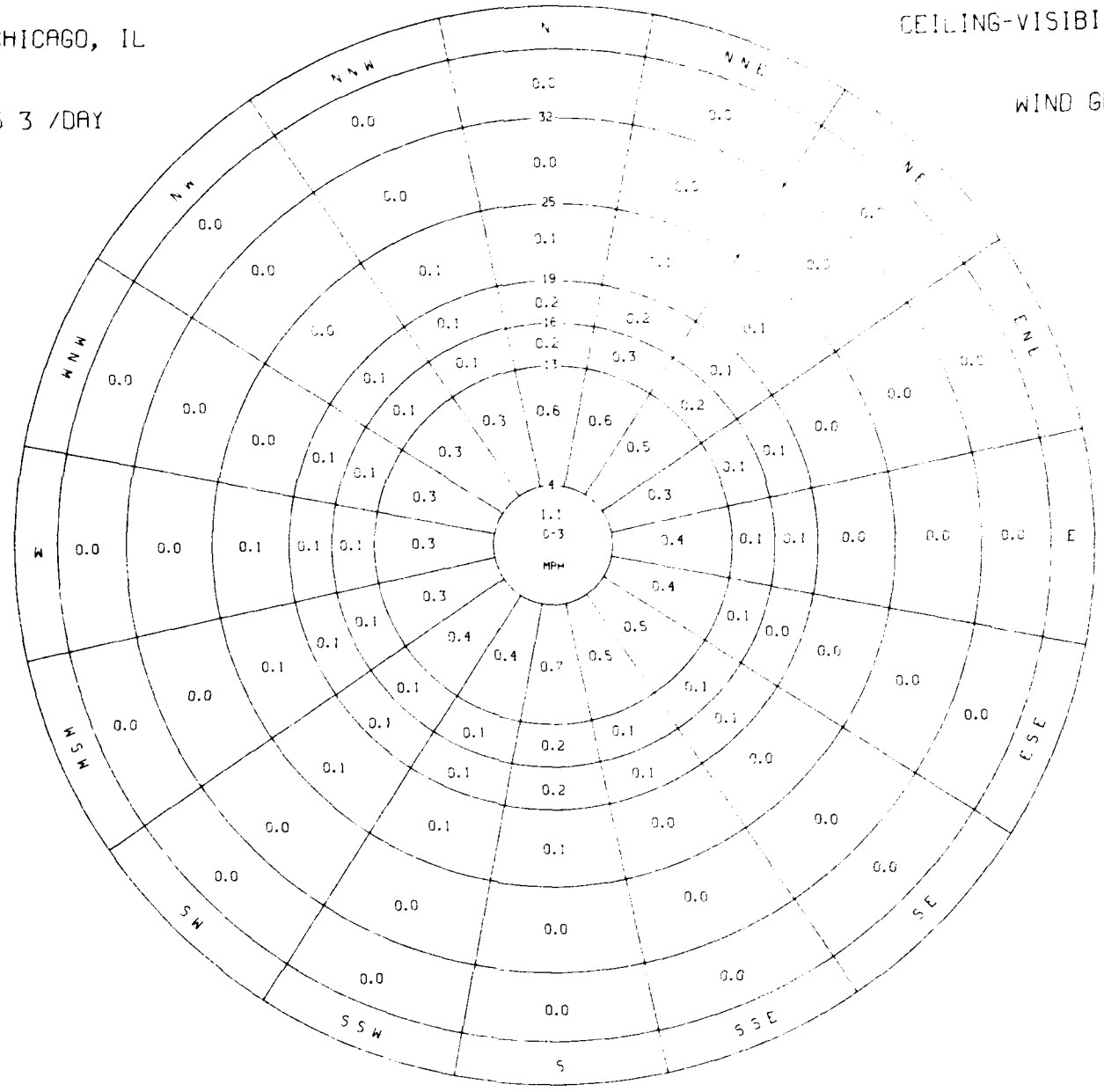
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.9	5.9	.3	1.6	.2	1.0	.1	.6	.0	.2	.0	.0	1.5	9.6	11.1
NNE	.1	.4	.8	4.8	.3	1.8	.2	1.2	.1	.6	.0	.2	.0	.0	1.4	9.1	11.9
NE	.1	.6	.6	4.0	.1	1.0	.1	.9	.1	.6	.0	.1	.0	.0	1.1	7.2	11.1
ENE	.0	.2	.4	2.6	.1	.7	.1	.6	.0	.3	.0	.0	.0	.0	.7	4.4	11.2
E	.0	.3	.4	2.8	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.7	4.4	10.2
ESE	.0	.2	.4	2.8	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.1	10.0
SE	.1	.4	.6	3.7	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.8	5.3	9.4
SSE	.0	.3	.5	3.5	.1	.8	.0	.3	.0	.2	.0	.0	.0	.0	.8	5.0	9.7
S	.1	.4	.8	5.2	.2	1.6	.1	.6	.1	.4	.0	.1	.0	.0	1.3	8.2	10.6
SSW	.0	.2	.5	3.3	.2	1.2	.1	.8	.1	.4	.0	.1	.0	.0	.9	6.0	11.7
SW	.1	.3	.5	3.2	.1	.8	.1	.6	.1	.3	.0	.2	.0	.0	.9	5.6	11.4
WSW	.0	.2	.4	2.7	.1	.6	.1	.5	.1	.5	.0	.2	.0	.0	.7	4.7	12.4
W	.1	.6	.5	3.4	.2	1.0	.1	.6	.1	.5	.1	.4	.0	.1	1.0	6.6	11.8
WNW	.0	.3	.4	2.5	.1	.7	.1	.4	.0	.3	.0	.0	.0	.0	.6	4.2	10.6
NW	.1	.6	.4	2.8	.1	.7	.1	.4	.0	.3	.0	.0	.0	.1	.8	4.8	10.3
NNW	.0	.3	.4	2.7	.2	1.0	.1	.7	.1	.6	.0	.2	.0	.0	.8	5.4	12.2
CALM	.8	5.3													.8	5.3	
TOTAL	1.7	10.9	8.7	55.8	2.4	15.6	1.5	9.5	.9	6.0	.3	1.8	.1	.4	15.5	100	10.5

ORD CHICAGO, IL

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 3 / DAY

STATION NUMBER: 94846

NO. OBS.: 6140

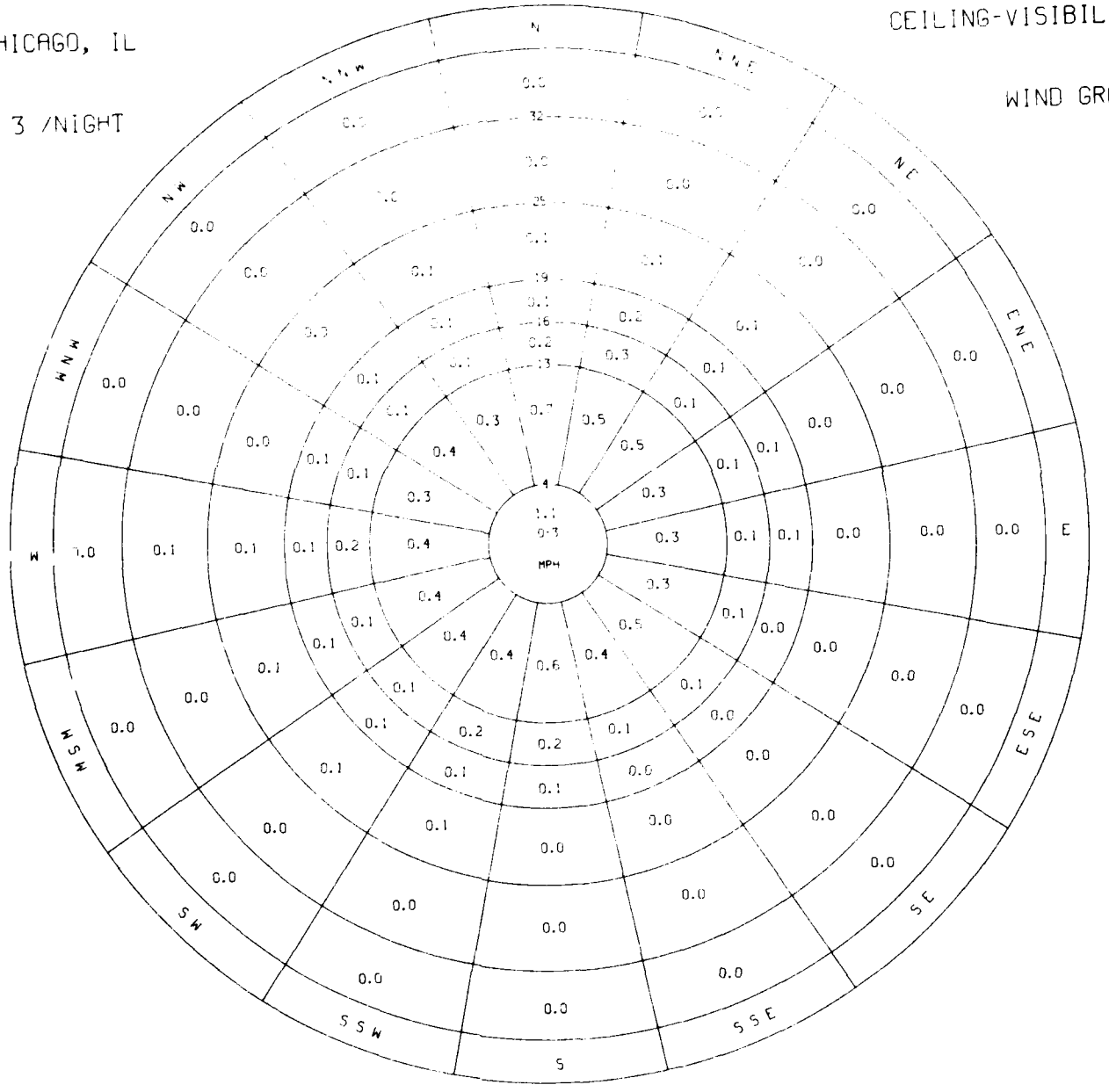
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.6	4.4	.2	1.7	.2	1.3	.1	.7	.0	.1	.0	.0	1.1	8.6	11.9
NNE	.0	.3	.6	4.9	.3	2.0	.2	1.3	.1	1.0	.0	.1	.0	.0	1.3	9.5	12.2
NE	.0	.3	.5	3.8	.2	1.6	.1	.7	.1	.6	.0	.0	.0	.0	.9	7.0	11.6
ENE	.0	.1	.3	2.3	.1	1.0	.1	.7	.0	.3	.0	.0	.0	.0	.6	4.4	11.7
E	.0	.2	.4	2.8	.1	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.6	4.9	11.0
ESE	.0	.2	.4	3.2	.1	.8	.0	.3	.0	.2	.0	.0	.0	.0	.6	4.7	10.3
SE	.0	.4	.5	4.0	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.7	5.5	9.5
SSE	.0	.4	.5	3.9	.1	.9	.1	.5	.0	.2	.0	.1	.0	.0	.8	6.0	10.4
S	.1	.5	.7	5.5	.2	1.7	.2	1.2	.1	.6	.0	.2	.0	.0	1.3	9.6	11.1
SSW	.0	.2	.4	3.4	.1	1.0	.1	.6	.1	.6	.0	.2	.0	.0	.8	6.0	11.9
SW	.0	.3	.4	3.4	.1	1.0	.1	.7	.1	.6	.0	.2	.0	.1	.8	6.2	12.2
WSW	.0	.3	.3	2.2	.1	1.0	.1	.5	.1	.6	.0	.3	.0	.1	.6	4.8	13.2
W	.0	.3	.3	2.5	.1	.9	.1	.7	.1	.6	.0	.2	.0	.0	.7	5.3	12.3
WNW	.0	.3	.3	2.1	.1	.7	.1	.6	.0	.4	.0	.1	.0	.0	.6	4.2	11.9
NW	.0	.4	.3	2.5	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.6	4.6	11.0
NNW	.0	.2	.3	2.2	.1	1.0	.1	.7	.1	.5	.0	.1	.0	.0	.6	4.8	12.6
CALM	.5	4.1													.5	4.1	
TOTAL	1.1	8.7	7.0	53.1	2.3	17.8	1.5	11.1	1.0	7.3	.2	1.7	.0	.3	13.2	100	11.1

ORD CHICAGO, IL

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 3 / NIGHT

STATION NUMBER: 94846

NO. OBS.: 5146

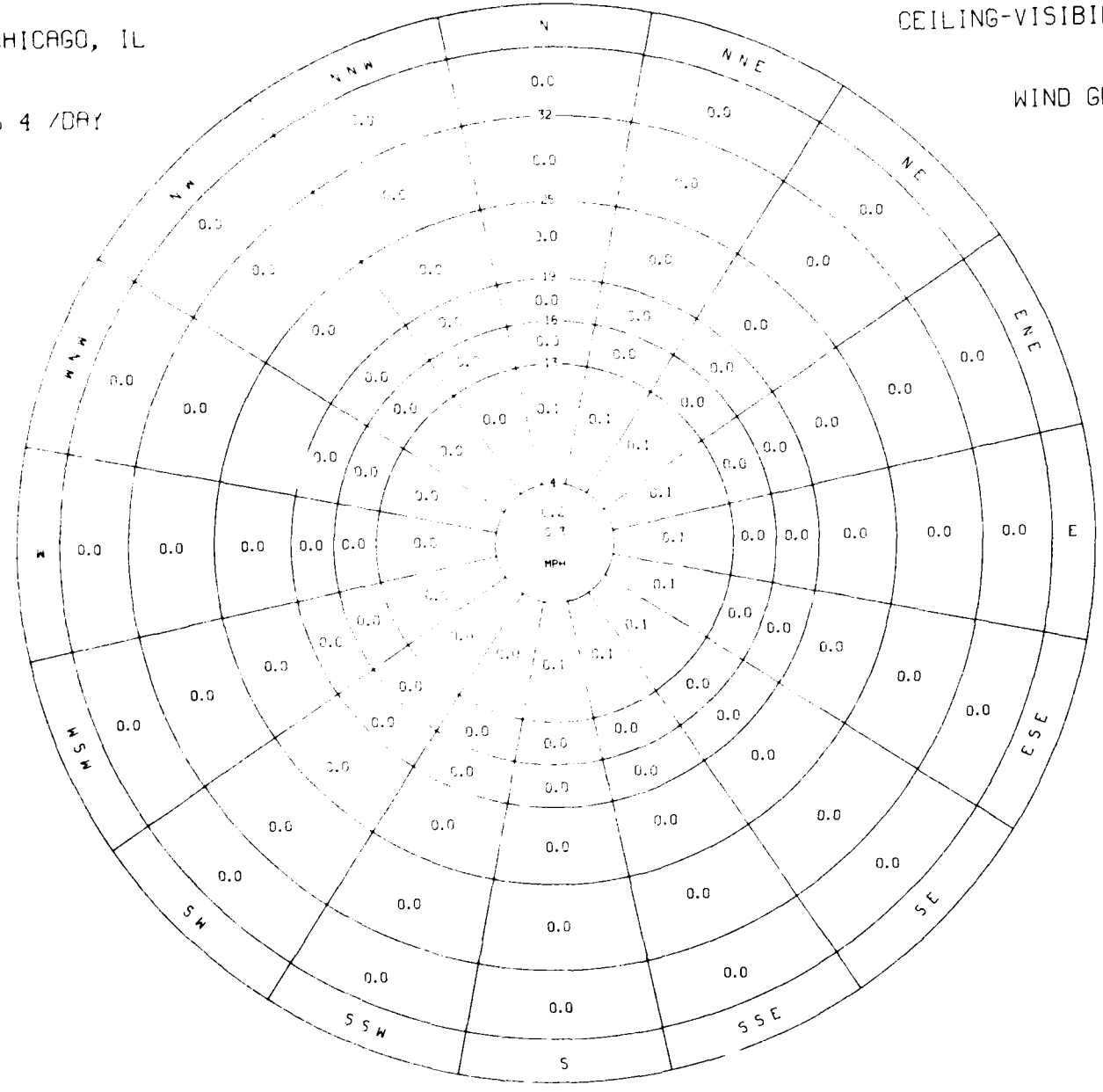
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.7	5.3	.2	1.8	.1	1.2	.1	.6	.0	.2	.0	.0	1.2	9.5	11.7
NNE	.0	.3	.5	4.2	.3	2.0	.2	1.3	.1	.7	.0	.2	.0	.0	1.1	8.7	12.5
NE	.1	.5	.5	3.8	.1	1.1	.1	.9	.1	.7	.0	.1	.0	.0	.9	7.0	11.5
ENE	.0	.1	.3	2.4	.1	.7	.1	.6	.0	.3	.0	.0	.0	.0	.5	4.2	11.6
E	.0	.3	.3	2.6	.1	.8	.1	.4	.0	.2	.0	.0	.0	.0	.5	4.4	10.5
ESE	.0	.2	.3	2.8	.1	.7	.0	.4	.0	.2	.0	.0	.0	.0	.5	4.2	10.2
SE	.1	.4	.5	3.7	.1	.8	.0	.3	.0	.2	.0	.0	.0	.0	.7	5.4	9.5
SSE	.0	.3	.4	3.3	.1	.9	.0	.3	.0	.2	.0	.0	.0	.0	.6	5.0	10.0
S	.0	.4	.6	4.9	.2	1.7	.1	.6	.0	.4	.0	.1	.0	.0	1.0	8.1	11.0
SSW	.0	.2	.4	3.2	.2	1.2	.1	.9	.1	.5	.0	.1	.0	.0	.8	6.2	12.0
SW	.0	.3	.4	3.3	.1	.9	.1	.8	.1	.4	.0	.2	.0	.1	.7	5.8	11.9
WSW	.0	.2	.4	2.9	.1	.7	.1	.6	.1	.6	.0	.3	.0	.1	.7	5.2	12.7
W	.1	.5	.4	3.3	.2	1.3	.1	.8	.1	.6	.1	.4	.0	.1	.9	7.0	12.6
WNW	.0	.2	.3	2.7	.1	.8	.1	.4	.0	.3	.0	.0	.0	.0	.6	4.5	11.0
NW	.1	.5	.4	3.0	.1	.9	.1	.4	.0	.3	.0	.1	.0	.1	.7	5.3	10.8
NNW	.0	.3	.3	2.7	.1	1.1	.1	.8	.1	.6	.0	.2	.0	.0	.7	5.8	12.6
CALM	.5	3.7													.5	3.7	
TOTAL	1.1	8.6	6.8	54.0	2.2	17.4	1.4	10.9	.8	6.7	.2	1.3	.1	.4	12.5	100	11.1

ORD CHICAGO, IL

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 4 / DAY

STATION NUMBER: 94846

NO. OBS.: 744

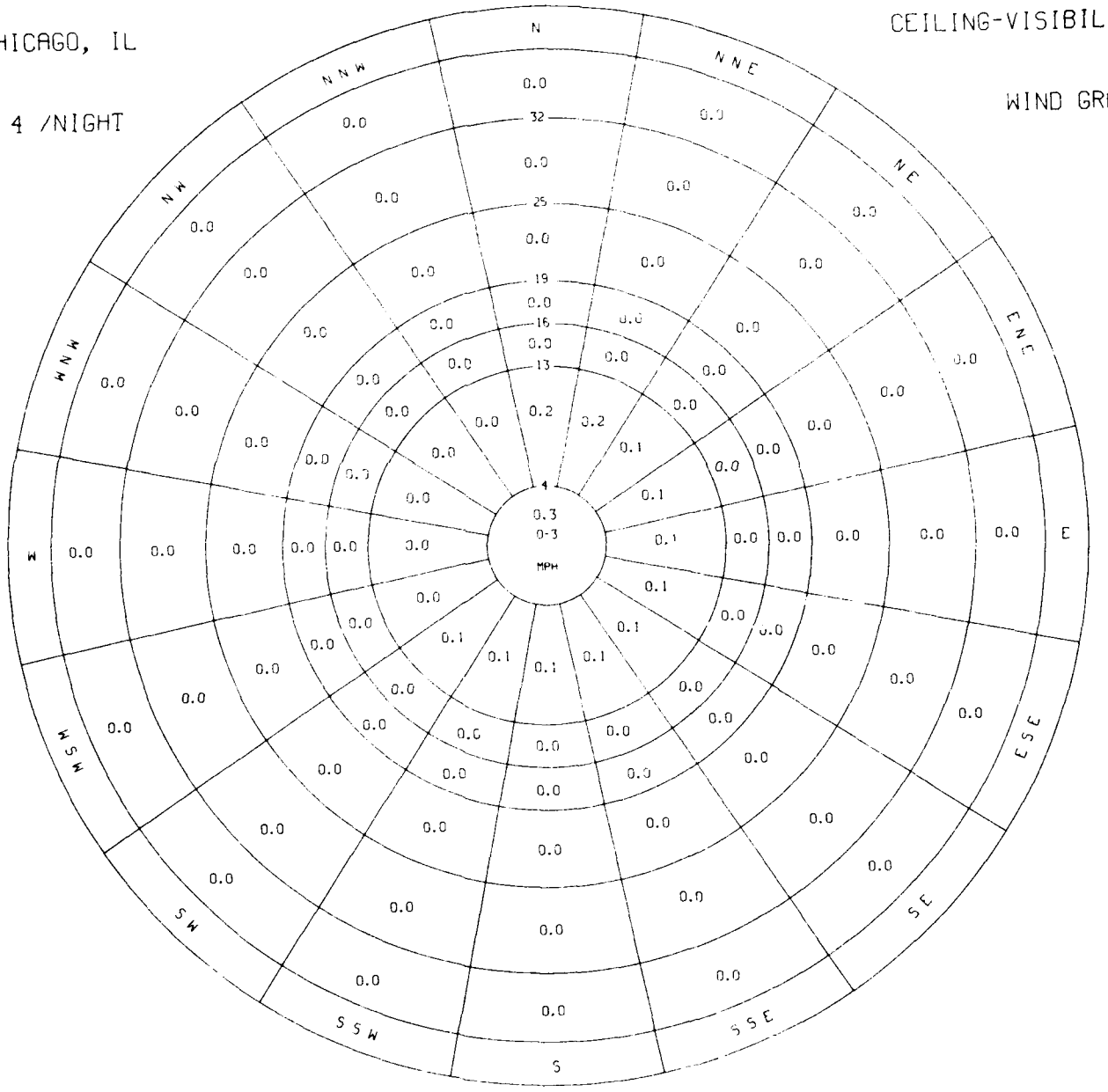
DIR	SPEED GROUPS (MPH)																TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.1	5.0	.0	1.6	.0	.8	.0	.5	.0	.4	.0	.1	.1	8.9	11.8
NNE	.0	.4	.1	8.9	.0	2.3	.0	1.6	.0	.7	.0	.1	.0	.0	.2	14.0	11.0
NE	.0	.3	.1	6.6	.0	.8	.0	.9	.0	.8	.0	.1	.0	.0	.2	9.5	10.7
ENE	.0	.1	.1	5.4	.0	.7	.0	1.3	.0	.3	.0	.1	.0	.0	.1	7.9	10.9
E	.0	.1	.1	4.3	.0	1.1	.0	.3	.0	.0	.0	.1	.0	.0	.1	5.9	10.1
ESE	.0	.4	.1	3.4	.0	.3	.0	.5	.0	.5	.0	.0	.0	.0	.1	5.1	9.8
SE	.0	.5	.1	4.0	.0	.7	.0	1	.0	.4	.0	.0	.0	.0	.1	5.8	9.5
SSE	.0	.8	.1	3.6	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.1	6.2	9.1
S	.0	.9	.1	5.0	.0	1.5	.0	.9	.0	.4	.0	.0	.0	.0	.1	8.7	10.2
SSW	.0	.1	.0	2.4	.0	.9	.0	.3	.0	.3	.0	.0	.0	.0	.1	4.0	10.9
SW	.0	.0	.0	2.4	.0	.8	.0	.4	.0	.1	.0	.0	.0	.0	.1	3.8	11.0
WSW	.0	.1	.0	.7	.0	.4	.0	.4	.0	.1	.0	.1	.0	.0	.0	1.9	13.4
W	.0	.4	.0	1.5	.0	.3	.0	.1	.0	.4	.0	.3	.0	.1	.0	3.1	12.6
WNW	.0	.3	.0	1.6	.0	.1	.0	.1	.0	.3	.0	.3	.0	.0	.0	2.7	11.0
NW	.0	.5	.0	1.3	.0	.0	.0	.7	.0	.3	.0	.0	.0	.0	.0	2.8	9.9
NNW	.0	.7	.0	1.6	.0	1.2	.0	.7	.0	.4	.0	.0	.0	.0	.1	4.6	11.1
CALM	.1	5.1													.1	5.1	
TOTAL	.2	11.3	.9	57.7	.2	14.0	.2	9.7	.1	5.5	.0	1.6	.0	.3	1.6	100	10.1

ORD CHICAGO, IL

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 4 / NIGHT

STATION NUMBER: 94846

NO. OBS.: 760

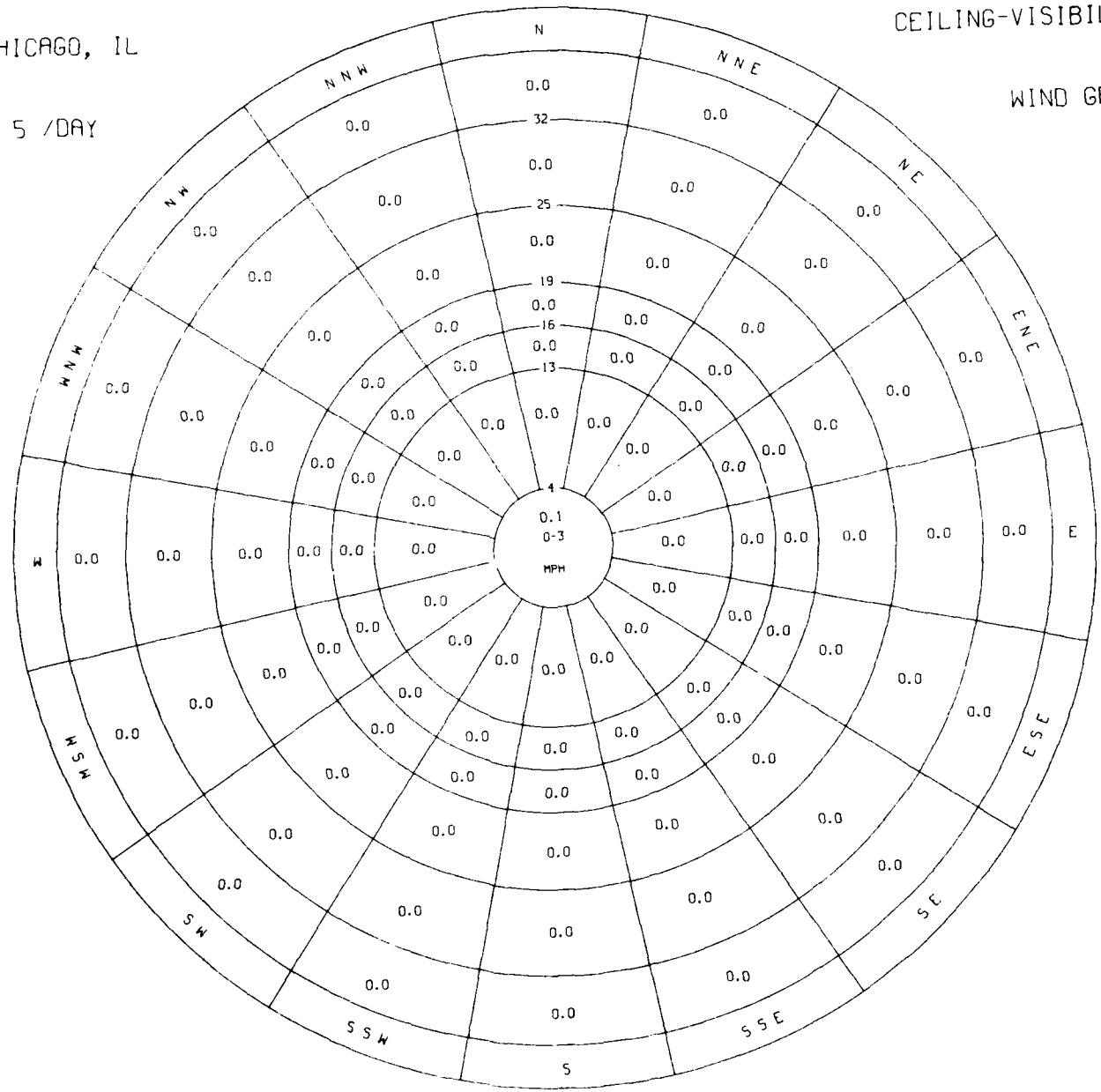
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.2	8.7	.0	1.1	.0	.3	.0	.3	.0	.3	.0	.0	.2	11.1	9.1
NNE	.0	1.1	.2	8.7	.0	1.6	.0	.7	.0	.3	.0	.3	.0	.0	.2	12.5	9.6
NE	.0	.5	.1	4.5	.0	.7	.0	.8	.0	.5	.0	.2	.0	.0	.1	7.2	10.9
ENE	.0	.1	.1	3.8	.0	1.1	.0	.7	.0	.4	.0	.0	.0	.0	.1	6.1	10.8
E	.0	.4	.1	3.7	.0	.8	.0	.1	.0	.1	.0	.0	.0	.0	.1	5.1	9.5
ESE	.0	.3	.1	3.7	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	4.7	9.3
SE	.0	.0	.1	3.8	.0	.9	.0	.3	.0	.0	.0	.0	.0	.0	.1	5.0	9.9
SSE	.0	.3	.1	4.1	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1	5.0	9.0
S	.0	.5	.1	6.4	.0	.9	.0	.4	.0	.5	.0	.0	.0	.1	.2	8.9	9.8
SSW	.0	.3	.1	3.8	.0	1.3	.0	.3	.0	.3	.0	.3	.0	.0	.1	6.2	10.6
SW	.0	.7	.1	3.4	.0	.9	.0	.1	.0	.1	.0	.1	.0	.0	.1	5.4	9.3
WSW	.0	.0	.0	1.8	.0	.5	.0	.0	.0	.1	.0	.1	.0	.0	.0	2.6	10.9
W	.0	.9	.0	2.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	3.8	7.4
WNW	.0	.3	.0	1.6	.0	.1	.0	.0	.0	.5	.0	.0	.0	.0	.0	2.5	9.7
NW	.0	.4	.0	1.6	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.0	2.5	8.2
NNW	.0	.4	.0	2.2	.0	.7	.0	.4	.0	.4	.0	.0	.0	.0	.1	4.1	10.8
CALM	.1	7.2													.1	7.2	
TOTAL	.3	13.8	1.2	64.5	.2	11.7	.1	4.6	.1	3.8	.0	1.3	.0	.3	1.9	100	9.0

ORD CHICAGO, IL

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 5 / DAY

STATION NUMBER: 94846

NO. OBS.: 164

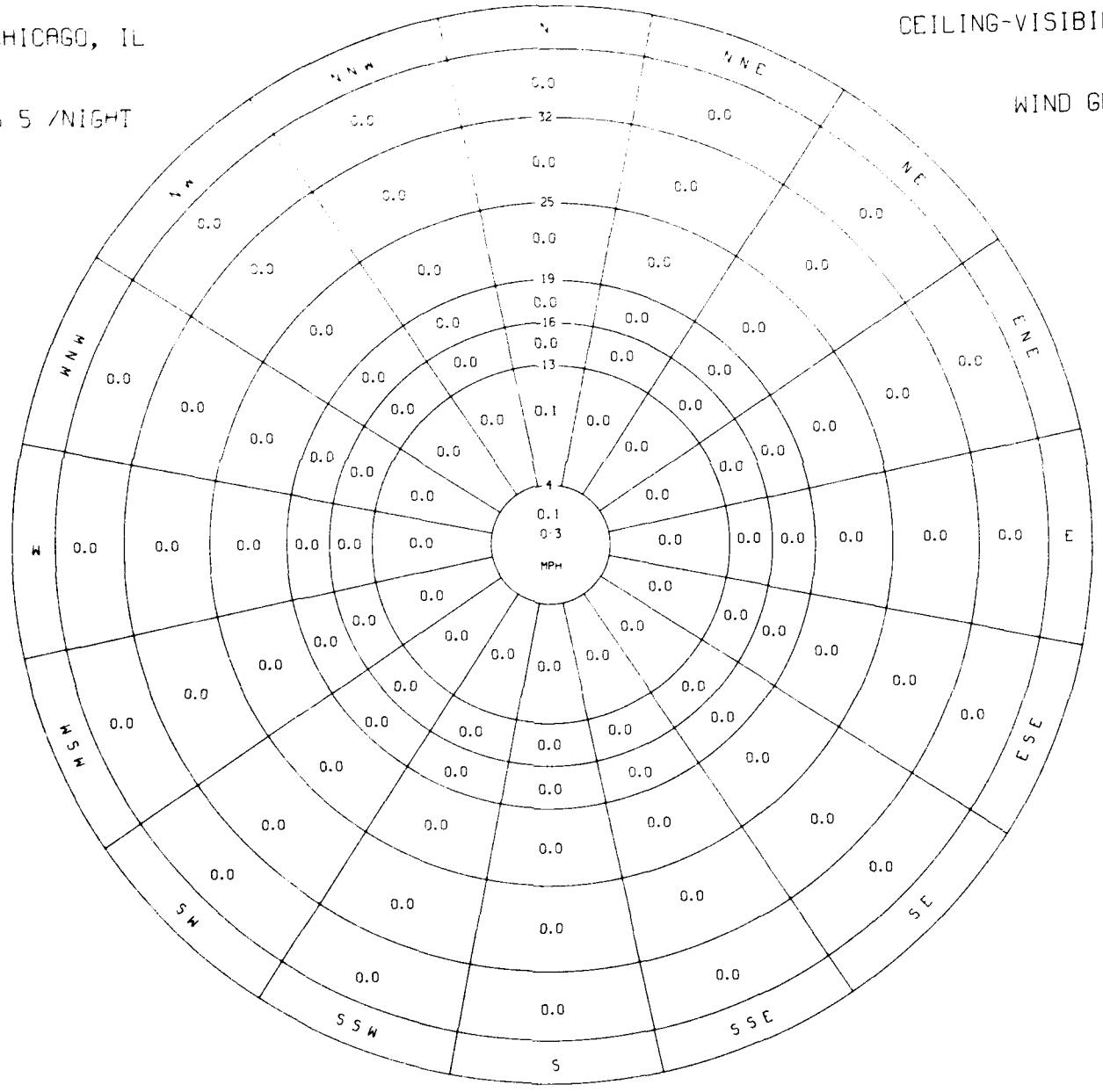
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	6.1	.0	.6	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	9.8	10.8
NNE	.0	.0	.0	6.7	.0	1.2	.0	1.2	.0	1.8	.0	.6	.0	.0	.0	11.6	13.0
NE	.0	1.2	.0	6.1	.0	.0	.0	1.2	.0	1.2	.0	.6	.0	.0	.0	10.4	11.1
ENE	.0	1.8	.0	4.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.6
E	.0	.6	.0	6.7	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	7.9	8.5
ESE	.0	.6	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	8.1
SE	.0	.0	.0	4.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	7.7
SSE	.0	.6	.0	1.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	7.6
S	.0	.6	.0	.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	10.6
SSW	.0	.0	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	8.0
SW	.0	1.2	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	7.4
WSW	.0	.6	.0	1.8	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	3.7	10.3
W	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	4.3	10.6
WNW	.0	.0	.0	3.7	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	4.3	8.0
NW	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	3.0	9.6
NNW	.0	.6	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.3
CALM	.0	6.7													.0	6.7	
TOTAL	.1	18.5	.4	65.2	.0	6.1	.0	4.9	.1	4.3	.0	2.4	.0	.0	.4	100	8.8

ORD CHICAGO, IL

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 5 / NIGHT

STATION NUMBER: 94846

NO. OBS.: 216

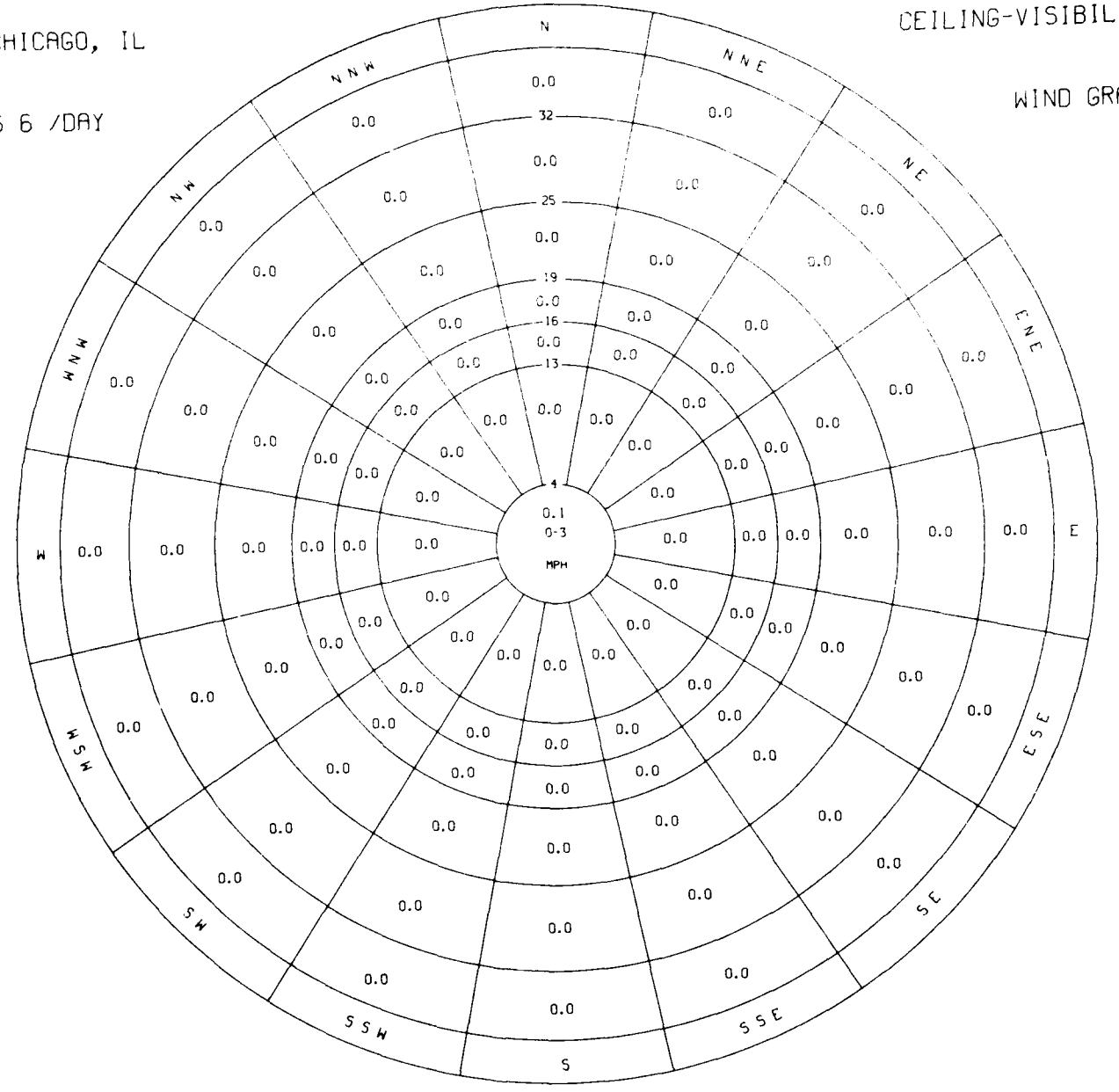
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.9	.1	10.2	.0	.9	.0	.0	.0	1.4	.0	.0	.0	.0	.1	13.4	9.4
NNE	.0	.9	.0	6.0	.0	.5	.0	.5	.0	.0	.0	.9	.0	.5	.0	9.3	10.8
NE	.0	3.2	.0	7.4	.0	.5	.0	1.9	.0	.0	.0	.0	.0	.0	.1	13.0	7.9
ENE	.0	.9	.0	4.6	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	6.9	9.3
E	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	8.1
ESE	.0	.5	.0	2.8	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.7	8.2
SE	.0	.5	.0	4.2	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	5.1	7.6
SSE	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	4.2	8.4
S	.0	.5	.0	7.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.5	.1	9.7	9.3
SSW	.0	.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	3.2	11.0
SW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	8.5
WSW	.0	.5	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	6.6
W	.0	.9	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	5.1	7.6
WNW	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	6.5
NW	.0	1.9	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	5.2
NNW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	6.4
CALM	.1	10.2													.1	10.2	
TOTAL	.1	21.3	.3	66.2	.0	3.7	.0	3.7	.0	2.3	.0	1.4	.0	1.4	.5	100	7.7

ORD CHICAGO, IL

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 6 / DAY

STATION NUMBER: 94846

NO. OBS.: 154

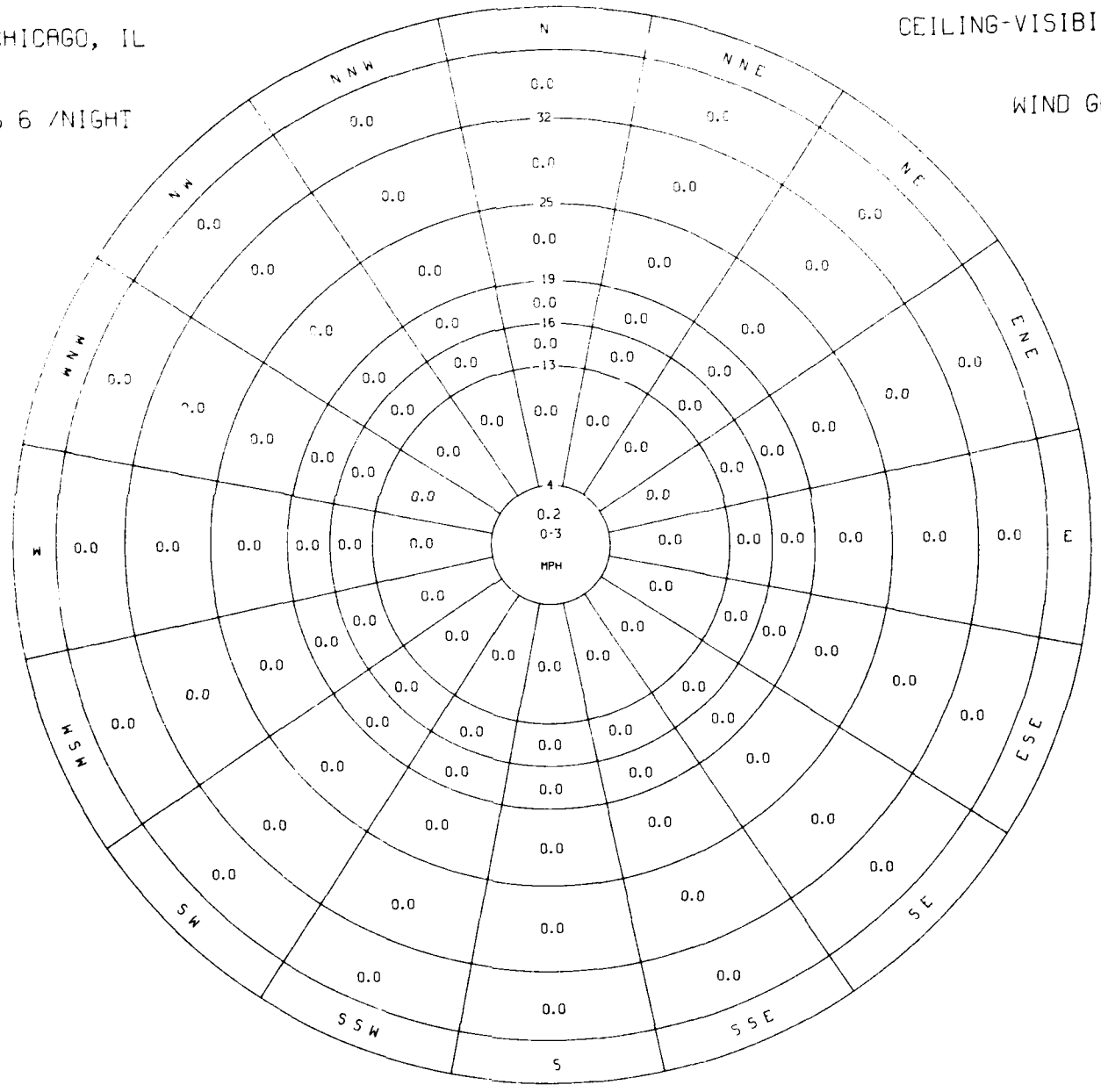
DIR	SPEED GROUPS (MPH) 0-3 A	0-3 B	4-12 A	4-12 B	13-15 A	13-15 B	16-18 A	16-18 B	19-24 A	19-24 B	25-31 A	25-31 B	32+ A	32+ B	TOTAL C	TOTAL D	AVG WIND SPEED
N	.0	3.9	.0	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.7	5.1
NNE	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	6.7
NE	.0	1.9	.0	3.2	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	7.1	8.7
ENE	.0	.6	.0	5.2	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	7.8	9.1
E	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.7
ESE	.0	.0	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	8.0
SE	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	7.3
SSE	.0	.6	.0	3.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	6.9
S	.0	1.3	.0	11.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	14.3	7.7
SSW	.0	.6	.0	3.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	8.3
SW	.0	.0	.0	4.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	7.9
WSW	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.2
W	.0	.6	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	.0	3.2	12.8
WNW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	3.2	8.8
NW	.0	1.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.0
NNW	.0	.0	.0	1.3	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	2.6	12.0
CALM	.0	14.3													.0	14.3	
TOTAL	.1	28.6	.2	61.0	.0	5.2	.0	2.6	.0	1.3	.0	.6	.0	.6	.3	100	6.5

ORD CHICAGO, IL

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: ORD CHICAGO, IL

PERIOD: 1949-1978

CLASS 6 / NIGHT

STATION NUMBER: 94846

NO. OBS.: 252

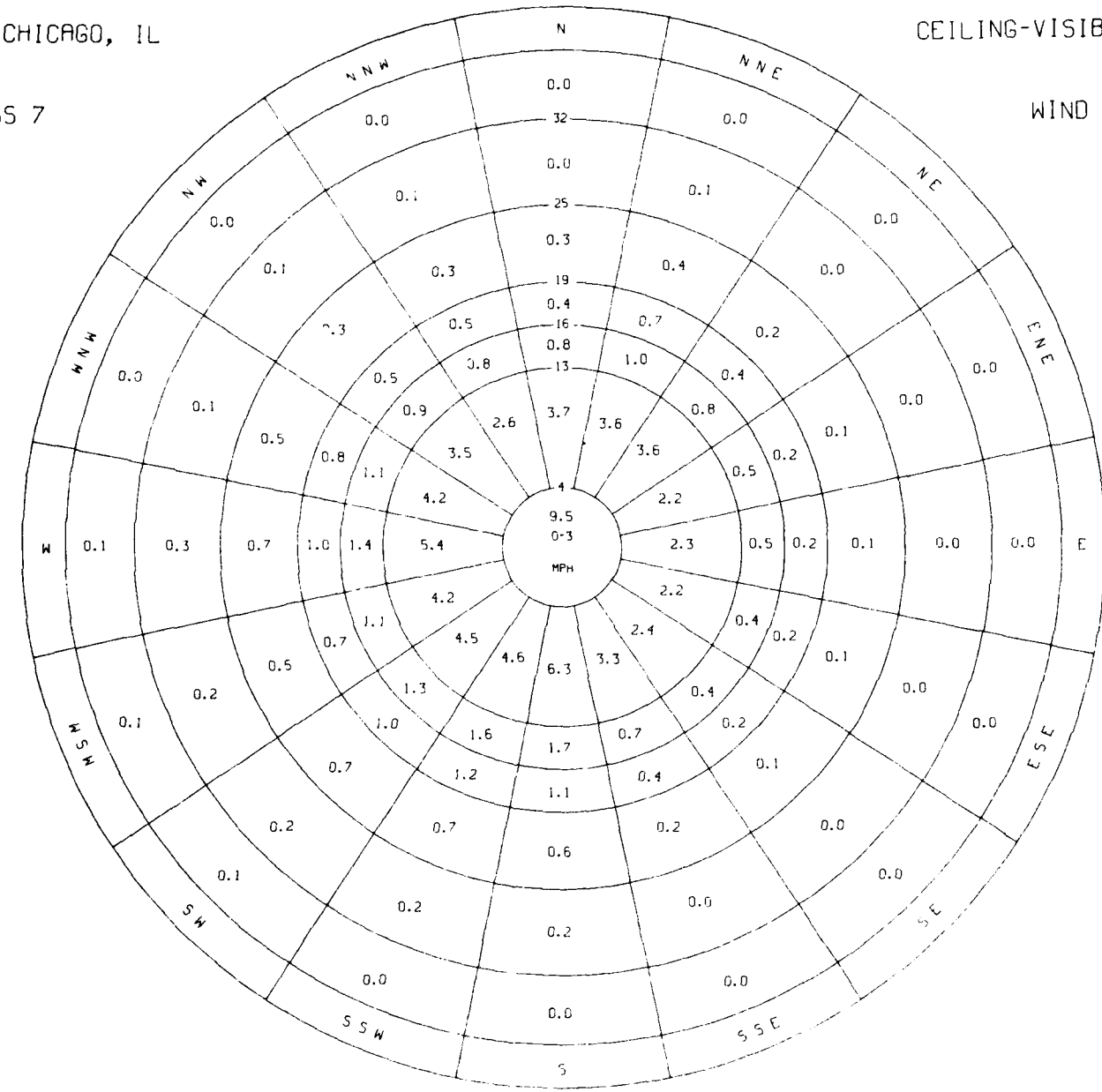
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.8	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	5.8
NNE	.0	.4	.0	5.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	6.3	7.9
NE	.0	1.2	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	5.6	7.1
ENE	.0	.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.0
E	.0	.4	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.5
ESE	.0	.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.2
SE	.0	.8	.0	2.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.3
SSE	.0	.4	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.9
S	.0	1.2	.0	5.6	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	7.1	7.2
SSW	.0	.0	.0	4.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	4.4	7.8
SW	.0	.8	.0	4.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	7.8
WSW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.7
W	.0	2.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	5.3
WNW	.0	1.2	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	4.5
NW	.0	1.6	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	4.5
NNW	.0	1.2	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	4.8	7.4
CALM	.2	27.4													.2	27.4	
TOTAL	.2	40.5	.3	56.7	.0	.8	.0	.8	.0	.4	.0	.8	.0	.0	.6	100	4.8

ORD CHICAGO, IL

CEILING-VISIBILITY

CLASS 7

WIND GRAPH

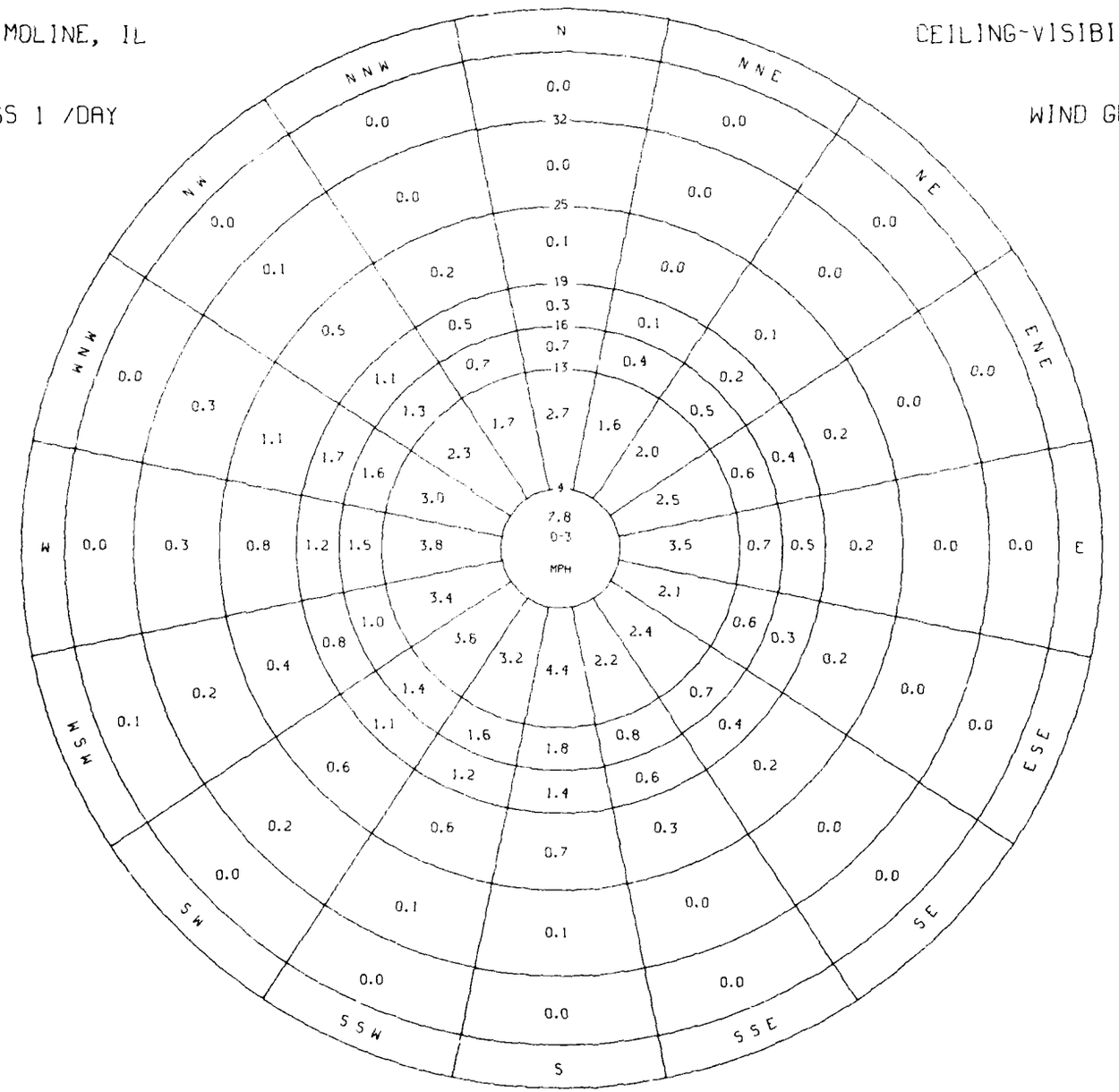


MLI MOLINE, IL

CEILING-VISIBILITY

CLASS 1 /DAY

WIND GRAPH


N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0.0
32
25
19
16
13
7
4
0-3
MPH
0.1
0.3
0.7
1.7
2.7
1.6
2.0
2.5
0.4
0.6
0.5
3.5
0.7
0.2
0.5
0.0
0.0
0.2
0.4
0.1
0.2
0.1
0.0
0.0
0.0

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERI : 1949-1978

CLASS 1 / DAY

STATION NUMBER: 14923

NO. OBS.: 41411

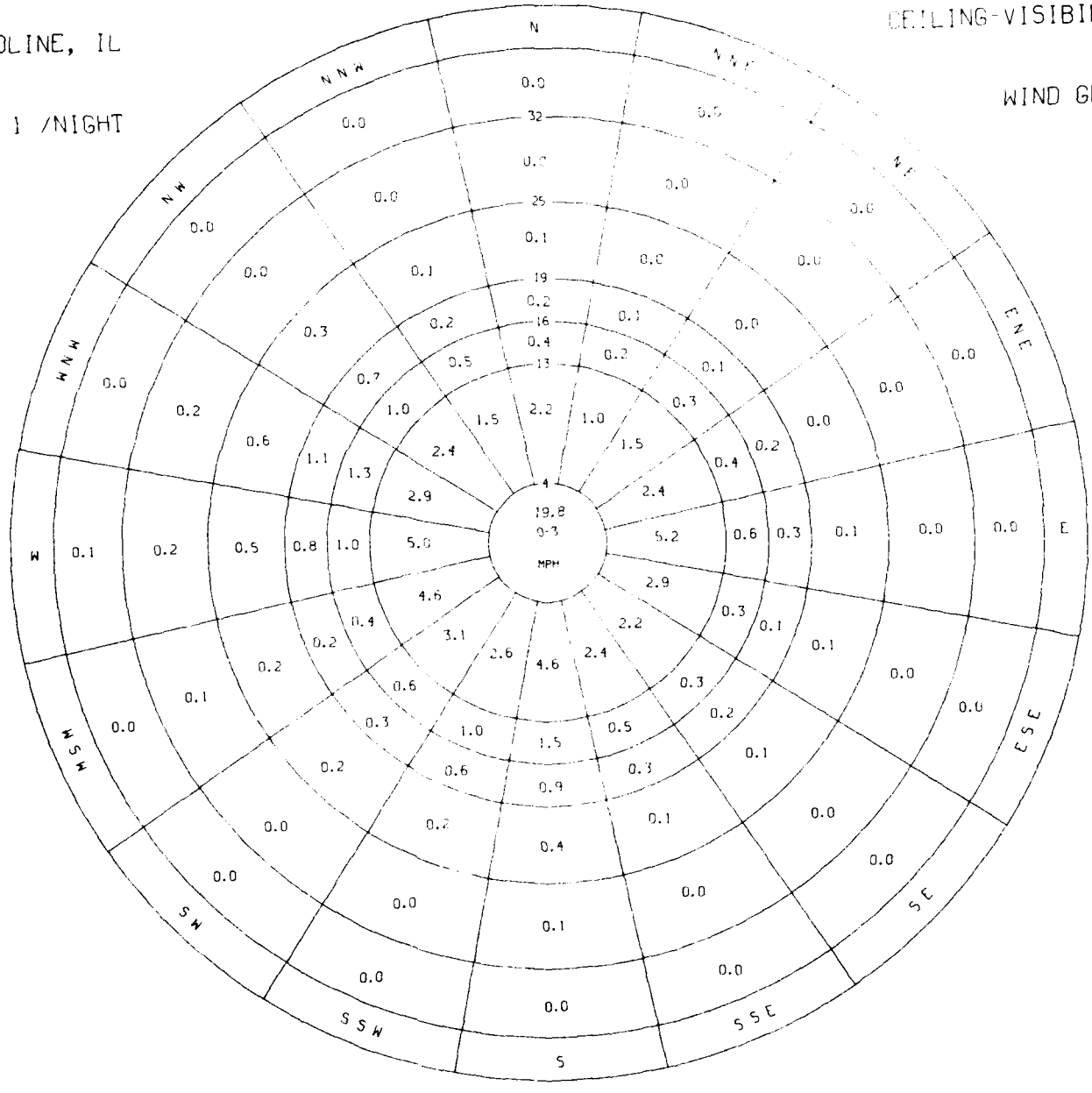
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.2	2.7	3.1	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	4.0	4.6	10.2
NNE	.1	.2	1.6	1.9	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	2.3	2.7	9.6
NE	.2	.2	2.0	2.3	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.0	3.4	9.8
ENE	.2	.2	2.5	2.8	.6	.7	.4	.4	.2	.2	.0	.0	.0	.0	3.8	4.3	10.5
E	.4	.5	3.5	4.0	.7	.9	.5	.5	.2	.2	.0	.0	.0	.0	5.3	6.1	9.8
ESE	.3	.3	2.1	2.4	.6	.6	.3	.4	.2	.2	.0	.0	.0	.0	3.5	4.0	10.3
SE	.3	.3	2.4	2.7	.7	.8	.4	.5	.2	.2	.0	.0	.0	.0	3.9	4.5	10.5
SSE	.2	.2	2.2	2.5	.8	.9	.6	.7	.3	.3	.0	.1	.0	.0	4.1	4.7	11.6
S	.3	.3	4.4	5.0	1.8	2.1	1.4	1.6	.7	.8	.1	.1	.0	.0	8.7	10.0	12.3
SSW	.2	.2	3.2	3.6	1.6	1.8	1.2	1.3	.6	.7	.1	.2	.0	.0	6.8	7.8	12.8
SW	.3	.4	3.6	4.1	1.4	1.6	1.1	1.2	.6	.6	.2	.2	.0	.0	7.1	8.1	12.1
WSW	.3	.3	3.4	3.9	1.0	1.1	.8	.9	.4	.5	.2	.2	.1	.1	6.1	7.0	11.7
W	.3	.4	3.8	4.4	1.5	1.7	1.2	1.3	.8	.9	.3	.4	.0	.1	8.0	9.2	12.7
WNW	.1	.1	3.0	3.4	1.6	1.9	1.7	1.9	1.1	1.3	.3	.4	.0	.1	7.9	9.0	14.3
NW	.2	.2	2.3	2.6	1.3	1.5	1.1	1.2	.5	.6	.1	.1	.0	.0	5.4	6.2	13.1
NNW	.1	.1	1.7	2.0	.7	.8	.5	.5	.2	.2	.0	.0	.0	.0	3.2	3.6	11.8
CALM	4.1	4.7													4.1	4.7	
TOTAL	7.8	8.9	44.3	50.8	15.8	18.1	11.6	13.3	5.9	6.8	1.6	1.8	.2	.3	87.2	100	11.3

MLI MOLINE, IL

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 1 / NIGHT

STATION NUMBER: 14923

NO. OBS.: 34776

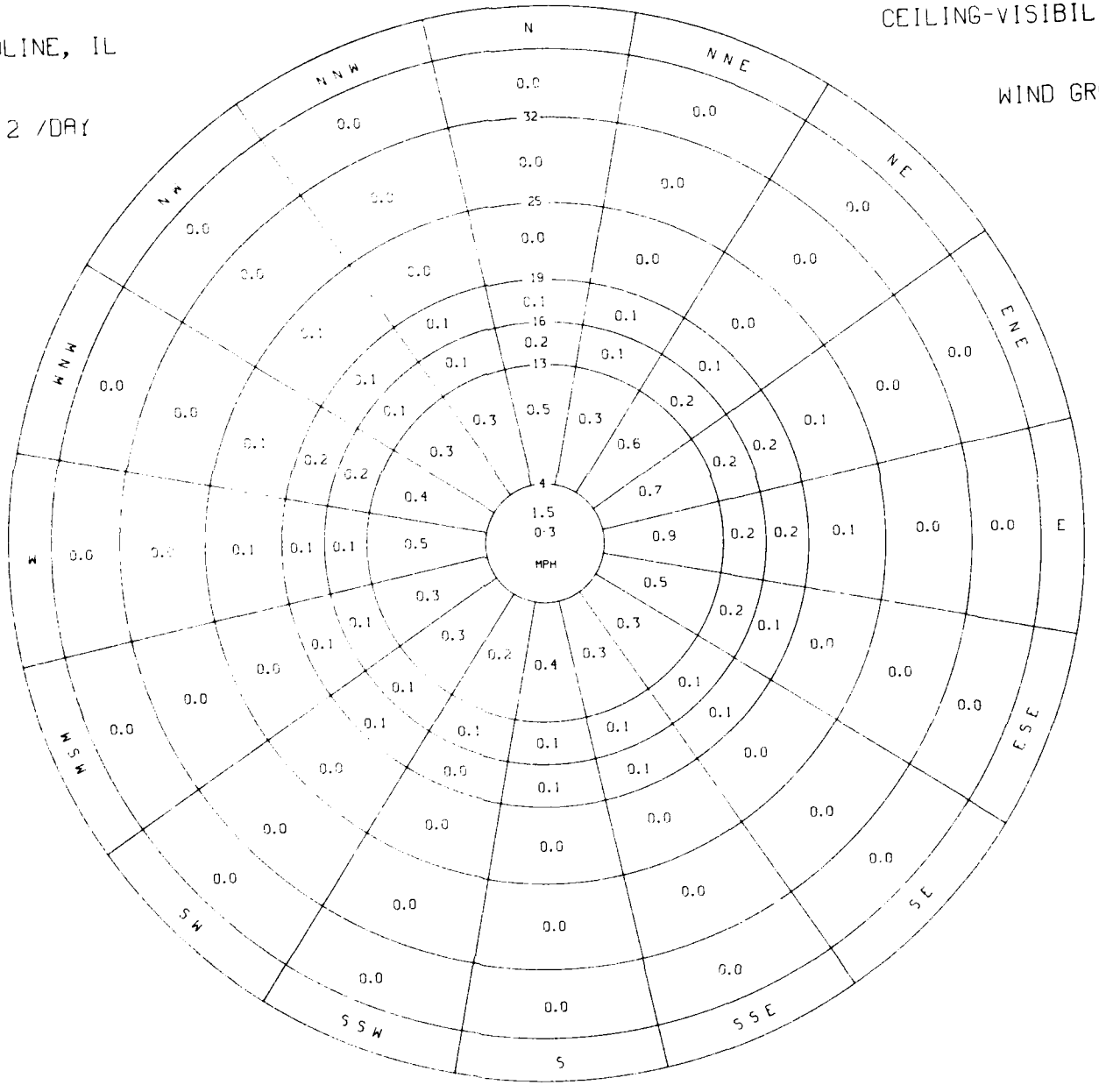
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	2.2	2.5	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.0	3.5	9.1
NNE	.1	.1	1.0	1.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.4	1.7	8.8
NE	.2	.3	1.5	1.7	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	2.1	2.5	8.8
ENE	.3	.3	2.4	2.7	.4	.5	.2	.2	.0	.1	.0	.0	.0	.0	3.3	3.8	8.9
E	1.2	1.4	5.2	6.0	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	7.3	8.4	7.7
ESE	.7	.8	2.9	3.4	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	4.1	4.7	7.5
SE	.6	.7	2.2	2.6	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	3.5	4.0	8.3
SSE	.3	.3	2.4	2.7	.5	.6	.3	.4	.1	.2	.0	.0	.0	.0	3.7	4.3	10.1
S	.5	.6	4.6	5.3	1.5	1.8	.9	1.1	.4	.5	.1	.1	.0	.0	8.0	9.3	11.1
SSW	.3	.4	2.6	3.0	1.0	1.2	.6	.7	.2	.3	.0	.0	.0	.0	4.8	5.5	11.2
SW	.7	.8	3.1	3.5	.6	.7	.3	.4	.2	.2	.0	.0	.0	.0	4.9	5.6	9.2
WSW	.6	.8	4.6	5.4	.4	.5	.2	.3	.2	.2	.1	.1	.0	.0	6.2	7.1	8.4
W	.6	.7	5.0	5.8	1.0	1.1	.8	.9	.5	.6	.2	.2	.1	.1	8.1	9.4	10.4
WNW	.2	.3	2.9	3.4	1.3	1.6	1.1	1.3	.6	.7	.2	.2	.0	.0	6.4	7.4	12.8
NW	.2	.2	2.4	2.7	1.0	1.1	.7	.8	.3	.3	.0	.0	.0	.0	4.5	5.2	11.9
NNW	.1	.1	1.5	1.8	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	2.4	2.8	10.7
CALM	12.8	14.8													12.8	14.8	
TOTAL	19.8	22.9	46.5	53.7	10.3	11.9	6.1	7.1	3.1	3.5	.7	.8	.2	.2	86.6	100	8.4

MLI MOLINE, IL

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 2 / DAY

STATION NUMBER: 14923

NO. OBS.: 6072

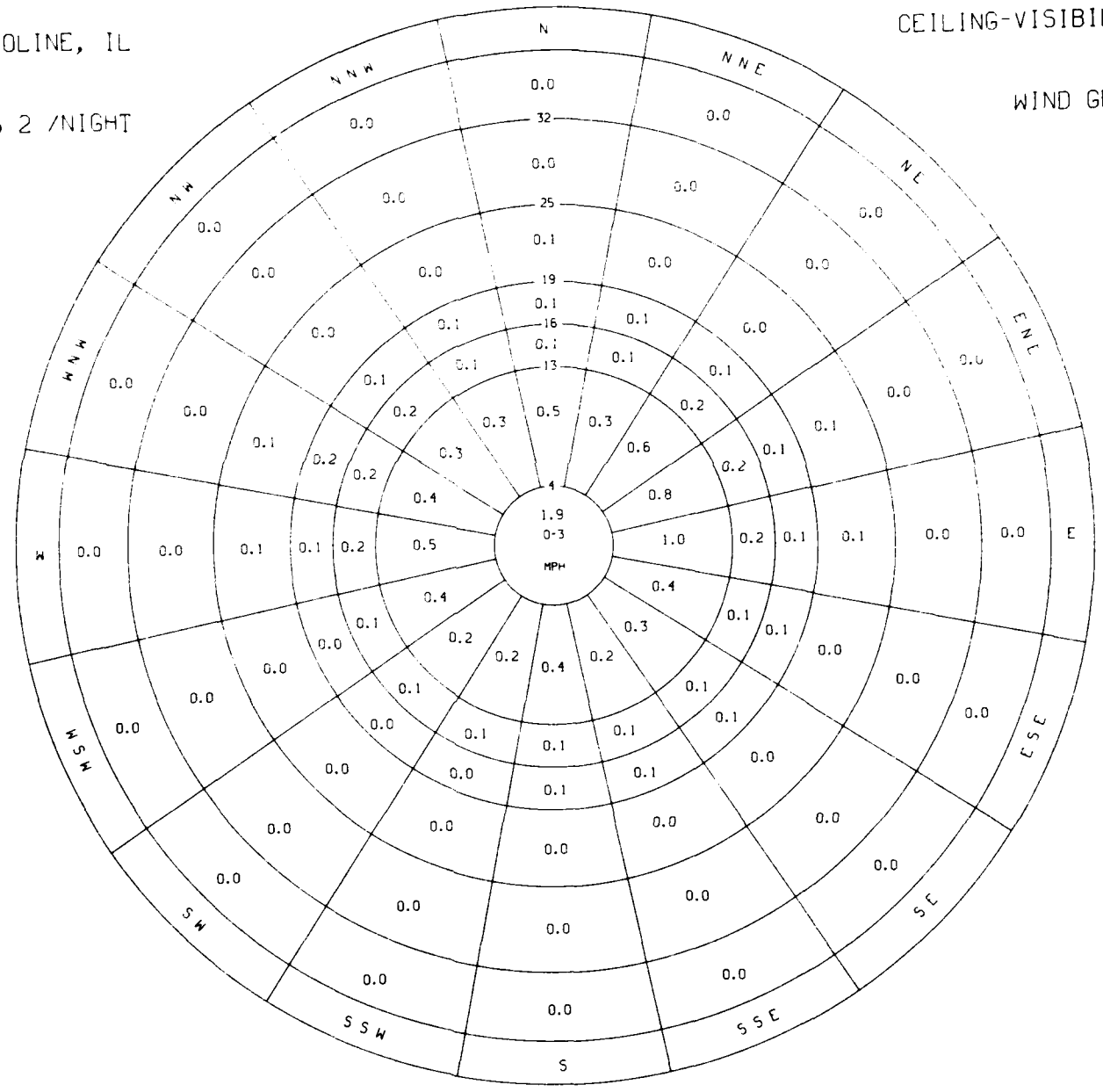
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.5	3.6	.2	1.2	.1	.5	.0	.4	.0	.0	.0	.0	.8	6.1	10.8
NNE	.0	.1	.3	2.6	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.6	4.5	11.4
NE	.0	.2	.6	4.5	.2	1.5	.1	.9	.0	.3	.0	.0	.0	.0	1.0	7.5	11.1
ENE	.1	.4	.7	5.8	.2	1.7	.2	1.3	.1	.8	.0	.1	.0	.0	1.3	10.2	11.5
E	.1	1.1	.9	7.2	.2	1.9	.2	1.2	.1	.8	.0	.1	.0	.0	1.6	12.3	10.5
ESE	.1	.5	.5	3.6	.2	1.4	.1	.5	.0	.2	.0	.1	.0	.0	.8	6.4	10.6
SE	.0	.3	.3	2.6	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.6	4.5	10.9
SSE	.0	.2	.3	2.1	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.5	3.6	10.7
S	.0	.2	.4	3.3	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.7	5.4	11.1
SSW	.0	.2	.2	1.9	.1	.6	.0	.2	.0	.1	.0	.1	.0	.0	.4	3.1	10.5
SW	.0	.4	.3	2.3	.1	.7	.1	.4	.0	.1	.0	.0	.0	.1	.5	4.0	10.7
WSW	.0	.2	.3	2.2	.1	.6	.1	.5	.0	.3	.0	.1	.0	.0	.5	3.9	11.7
W	.0	.4	.5	3.7	.1	1.1	.1	.9	.1	.8	.0	.2	.0	.0	.9	7.0	12.2
WNW	.0	.2	.4	3.0	.2	1.4	.2	1.4	.1	.8	.0	.3	.0	.1	.9	7.2	13.7
NW	.0	.2	.3	2.2	.1	.6	.1	.7	.1	.4	.0	.1	.0	.0	.6	4.3	12.2
NNW	.0	.1	.3	2.2	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.5	3.8	11.0
CALM	.8	6.3													.8	6.3	
TOTAL	1.5	11.5	6.8	52.8	2.2	16.8	1.5	11.3	.7	5.8	.2	1.3	.0	.3	12.8	100	10.6

MLI MOLINE, IL

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 2 / NIGHT

STATION NUMBER: 14923

NO. OBS.: 5391

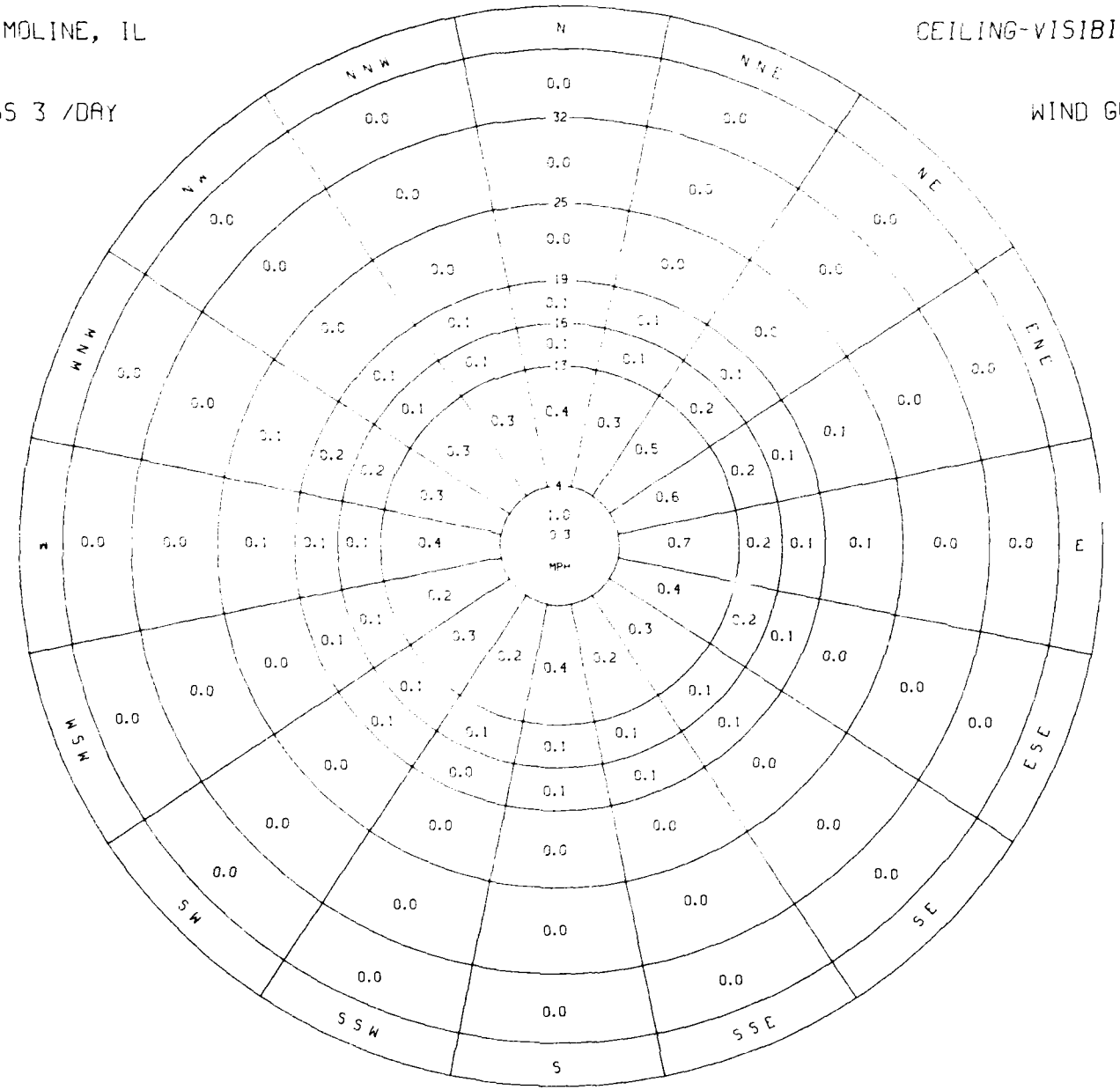
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.5	4.0	.1	1.1	.1	.6	.1	.4	.0	.1	.0	.0	.9	6.8	10.7
NNE	.0	.3	.3	2.4	.1	.9	.1	.5	.0	.3	.0	.0	.0	.0	.6	4.4	11.1
NE	.1	.5	.6	4.4	.2	1.5	.1	.8	.0	.3	.0	.1	.0	.0	1.0	7.6	11.0
ENE	.1	.4	.8	5.7	.2	1.7	.1	1.1	.1	.6	.0	.1	.0	.0	1.3	9.6	11.2
E	.1	.9	1.0	7.7	.2	1.3	.1	1.0	.1	.5	.0	.1	.0	.0	1.5	11.5	10.0
ESE	.1	.4	.4	3.2	.1	.9	.1	.5	.0	.3	.0	.0	.0	.0	.7	5.4	10.1
SE	.1	.5	.3	2.2	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.5	3.8	9.9
SSE	.0	.1	.2	1.7	.1	.9	.1	.4	.0	.2	.0	.0	.0	.0	.4	3.3	11.5
S	.0	.3	.4	2.9	.1	.9	.1	.4	.0	.2	.0	.0	.0	.0	.6	4.8	10.7
SSW	.0	.2	.2	1.7	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.6	9.7
SW	.0	.4	.2	1.8	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.1	10.4
WSW	.1	.5	.4	3.1	.1	.6	.0	.3	.0	.2	.0	.1	.0	.0	.6	4.8	10.0
W	.1	.5	.5	4.0	.2	1.2	.1	1.0	.1	.6	.0	.1	.0	.0	1.0	7.4	11.4
WNW	.0	.2	.4	3.1	.2	1.5	.2	1.4	.1	.9	.0	.3	.0	.0	1.0	7.4	13.7
NW	.0	.1	.3	2.3	.2	1.2	.1	.8	.0	.2	.0	.1	.0	.0	.6	4.8	12.7
NNW	.0	.1	.3	2.3	.1	.6	.1	.5	.0	.4	.0	.0	.0	.0	.5	4.0	11.9
CALM	1.1	8.5													1.1	8.5	
TOTAL	1.3	14.5	7.0	52.4	2.1	15.8	1.4	10.3	.8	5.7	.2	1.3	.0	.1	13.4	100	10.1

MLI MOLINE, IL

CEILING-VISIBILITY

CLASS 3 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 3 / DAY

STATION NUMBER: 14923

NO. OBS.: 5107

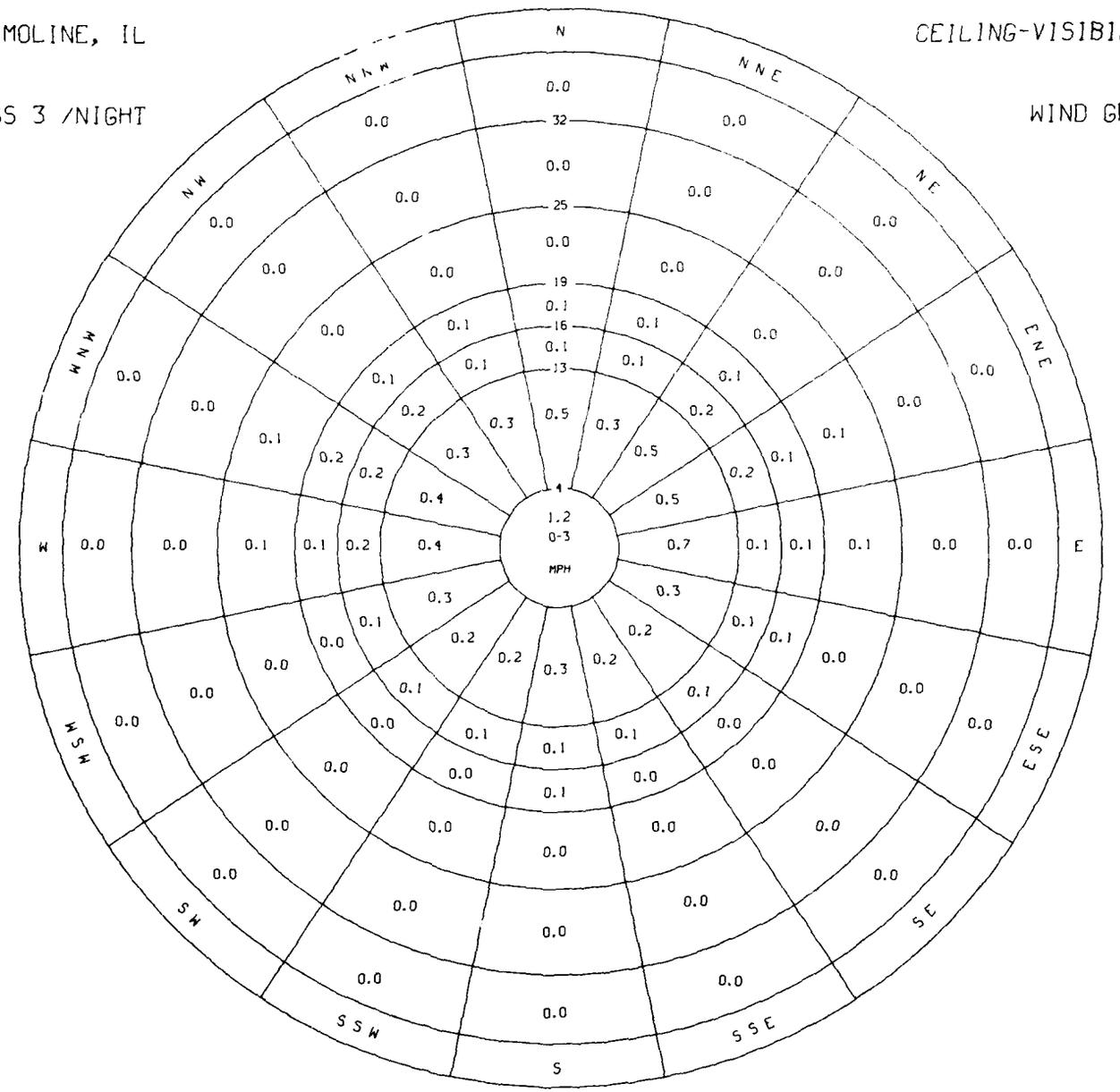
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.4	3.7	.1	1.2	.1	.5	.0	.3	.0	.0	.0	.0	.7	6.1	11.0
NNE	.0	.2	.3	2.5	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.5	4.4	11.4
NE	.0	.2	.5	4.5	.2	1.5	.1	.9	.0	.3	.0	.1	.0	.0	.8	7.5	11.3
ENE	.0	.4	.6	5.4	.2	1.7	.1	1.3	.1	.9	.0	.1	.0	.0	1.1	9.8	11.8
E	.1	.8	.7	6.4	.2	1.8	.1	1.3	.1	.9	.0	.1	.0	.0	1.2	11.3	11.0
ESE	.0	.4	.4	3.4	.2	1.5	.1	.5	.0	.2	.0	.1	.0	.0	.7	6.1	11.0
SE	.0	.3	.3	2.7	.1	.8	.1	.7	.0	.2	.0	.0	.0	.0	.5	4.7	11.2
SSE	.0	.2	.2	2.1	.1	.8	.1	.6	.0	.1	.0	.0	.0	.0	.4	3.7	11.1
S	.0	.2	.4	3.6	.1	1.1	.1	.7	.0	.2	.0	.0	.0	.0	.6	5.8	11.2
SSW	.0	.2	.2	2.2	.1	.6	.0	.2	.0	.1	.0	.1	.0	.0	.4	3.4	10.7
SW	.0	.4	.3	2.4	.1	.8	.1	.5	.0	.1	.0	.0	.0	.1	.5	4.2	10.8
WSW	.0	.1	.2	2.3	.1	.7	.1	.5	.0	.3	.0	.1	.0	.0	.4	4.2	12.1
W	.0	.4	.4	3.6	.1	1.2	.1	1.0	.1	.9	.0	.2	.0	.1	.8	7.4	12.7
WNW	.0	.2	.3	3.1	.2	1.6	.2	1.6	.1	.8	.0	.3	.0	.1	.8	7.8	13.9
NW	.0	.2	.3	2.3	.1	.7	.1	.8	.0	.4	.0	.1	.0	.0	.5	4.6	12.3
NNW	.0	.1	.3	2.3	.1	.9	.1	.5	.0	.1	.0	.0	.0	.0	.4	4.0	11.0
CALM	.5	4.8													.5	4.8	
TOTAL	1.0	9.3	5.7	52.6	1.9	17.9	1.3	12.4	.7	6.1	.1	1.4	.0	.4	10.8	100	11.1

MLI MOLINE, IL

CEILING-VISIBILITY

CLASS 3 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 3 / NIGHT

STATION NUMBER: 14923

NO. OBS.: 4323

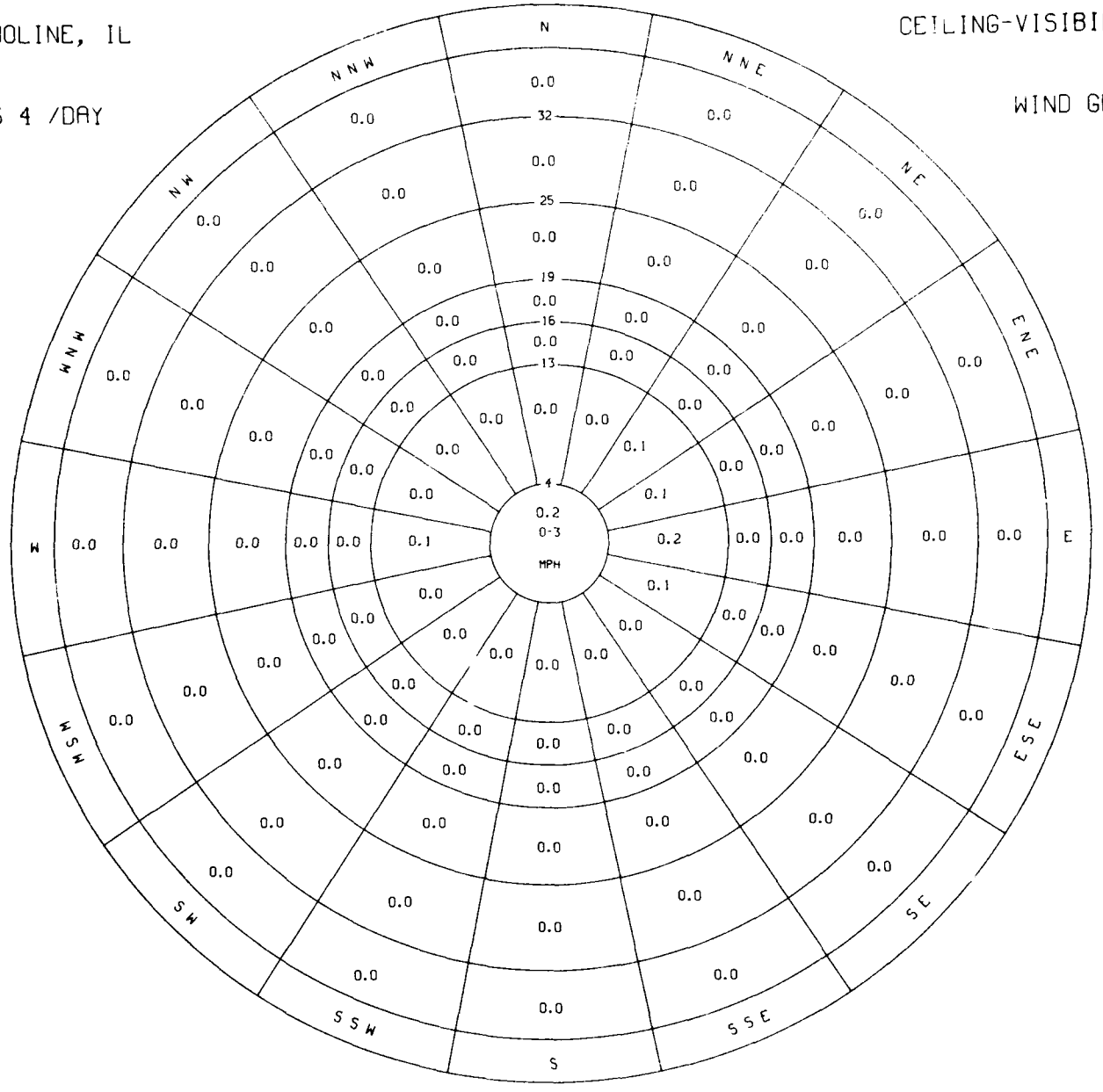
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.5	4.5	.1	1.3	.1	.7	.0	.3	.0	.1	.0	.0	.8	7.3	10.7
NNE	.0	.3	.3	2.5	.1	1.0	.1	.6	.0	.3	.0	.0	.0	.0	.5	4.7	11.3
NE	.1	.5	.5	4.5	.2	1.5	.1	.9	.0	.4	.0	.1	.0	.0	.9	8.0	11.1
ENE	.0	.4	.5	5.0	.2	1.8	.1	1.1	.1	.6	.0	.1	.0	.0	1.0	9.1	11.7
E	.1	.9	.7	6.8	.1	1.3	.1	1.1	.1	.5	.0	.1	.0	.0	1.2	10.8	10.3
ESE	.0	.3	.3	2.8	.1	1.0	.1	.6	.0	.3	.0	.0	.0	.0	.5	5.0	10.7
SE	.0	.4	.2	2.0	.1	.6	.0	.5	.0	.2	.0	.0	.0	.0	.4	3.6	10.5
SSE	.0	.1	.2	1.4	.1	.9	.0	.4	.0	.2	.0	.0	.0	.0	.3	3.1	12.1
S	.0	.2	.3	2.9	.1	1.1	.1	.5	.0	.3	.0	.0	.0	.0	.5	5.0	11.3
SSW	.0	.2	.2	1.8	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.3	2.9	10.0
SW	.0	.3	.2	1.8	.1	.5	.0	.3	.0	.2	.0	.0	.0	.0	.3	3.1	11.2
WSW	.0	.3	.3	3.1	.1	.7	.0	.4	.0	.3	.0	.1	.0	.0	.5	5.0	10.6
W	.0	.3	.4	4.0	.2	1.4	.1	1.2	.1	.8	.0	.1	.0	.0	.8	7.9	12.1
WNW	.0	.2	.4	3.3	.2	1.9	.2	1.7	.1	1.2	.0	.4	.0	.0	.9	8.6	14.1
NW	.0	.0	.3	2.5	.2	1.5	.1	1.0	.0	.3	.0	.1	.0	.0	.6	5.4	12.8
NNW	.0	.1	.3	2.6	.1	.7	.1	.6	.0	.3	.0	.0	.0	.0	.5	4.4	11.7
CALM	.7	6.1													.7	6.1	
TOTAL	1.2	11.1	5.6	51.7	1.9	17.8	1.3	11.8	.7	6.2	.1	1.3	.0	.2	10.8	100	10.8

MLI MOLINE, IL

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 4 / SA+

STATION NUMBER: 14923

NO. OBS.: 680

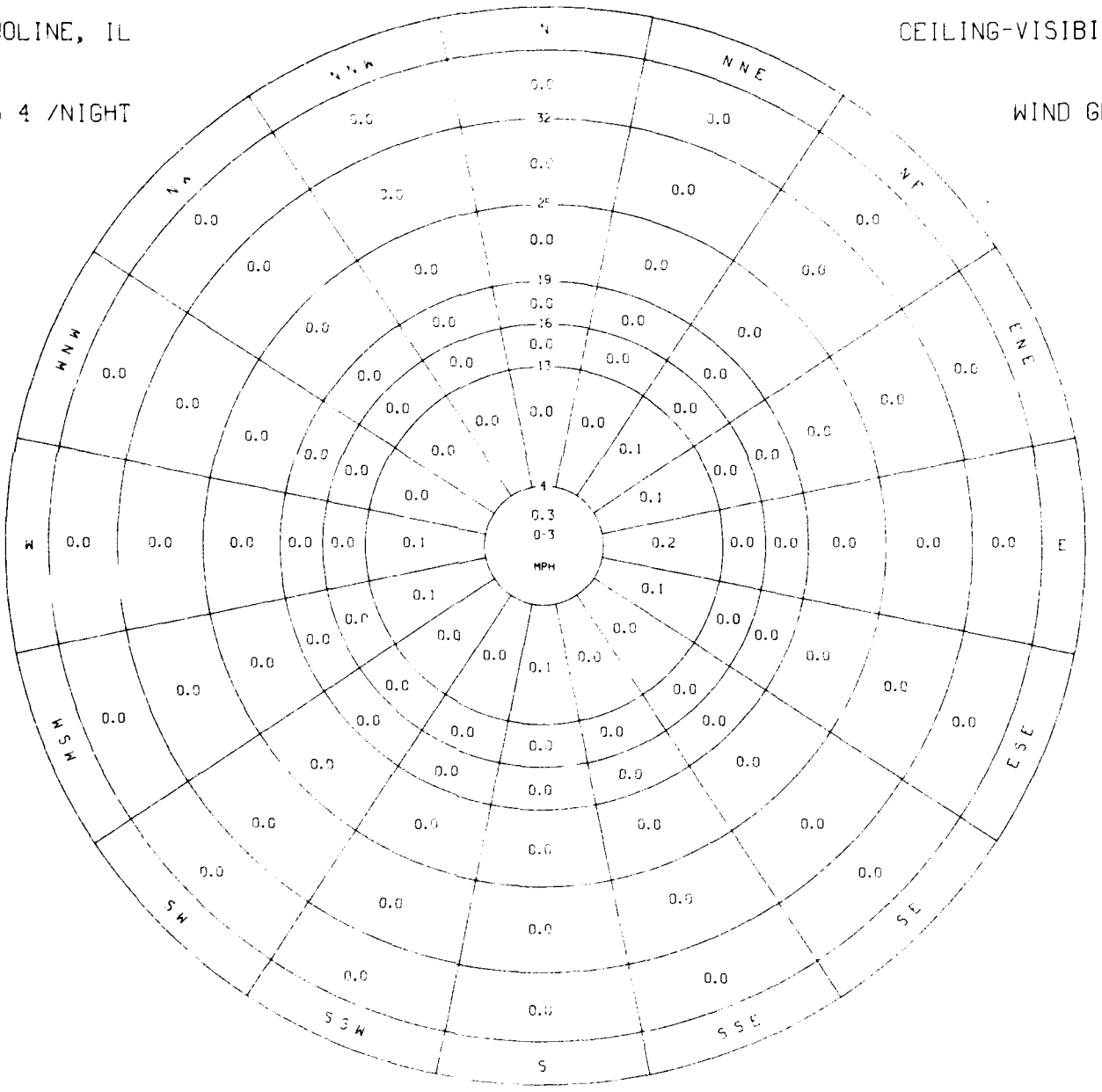
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.2	.0	3.4	.0	1.8	.0	.9	.0	.7	.0	.0	.0	.0	.1	7.9	10.8
NNE	.0	.0	.0	3.2	.0	.4	.0	.7	.0	.1	.0	.0	.0	.0	.1	4.6	10.9
NE	.0	.3	.1	5.0	.0	1.5	.0	.7	.0	.4	.0	.0	.0	.0	.1	7.9	10.8
ENE	.0	.4	.1	8.4	.0	2.1	.0	1.0	.0	.6	.0	.1	.0	.0	.2	12.6	10.6
E	.0	1.6	.2	10.6	.0	1.9	.0	1.0	.0	.6	.0	.0	.0	.0	.2	15.7	9.6
ESE	.0	1.0	.1	4.9	.0	1.2	.0	.6	.0	.6	.0	.0	.0	.0	.1	8.2	9.9
SE	.0	.3	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.8	9.1
SSE	.0	.6	.0	2.1	.0	.4	.0	.1	.0	.0	.0	.0	.0	.0	.0	3.2	8.5
S	.0	.6	.0	2.1	.0	.4	.0	.6	.0	.4	.0	.0	.0	.0	.1	4.1	10.8
SSW	.0	.3	.0	.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	9.2
SW	.0	.3	.0	1.6	.0	.1	.0	.0	.0	.1	.0	.0	.0	.1	.0	2.4	10.1
WSW	.0	.3	.0	1.9	.0	.1	.0	.1	.0	.3	.0	.0	.0	.0	.0	2.8	9.0
W	.0	.3	.1	3.5	.0	.3	.0	.3	.0	.0	.0	.1	.0	.0	.1	4.6	9.7
WNW	.0	.1	.0	2.4	.0	.9	.0	.4	.0	.6	.0	.3	.0	.0	.1	4.7	12.2
NW	.0	.1	.0	1.8	.0	.1	.0	.1	.0	.3	.0	.1	.0	.1	.0	2.8	12.3
NNW	.0	.3	.0	2.1	.0	.4	.0	.6	.0	.3	.0	.0	.0	.0	.1	3.7	11.4
CALM	.1	9.3													.1	9.3	
TOTAL	.2	17.1	.8	56.2	.2	13.2	.1	7.4	.1	5.1	.0	.7	.0	.3	1.4	100	9.4

MLI MOLINE, IL

CEILING-VISIBILITY

CLASS 4 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 4 / NIGHT

STATION NUMBER: 14923

NO. OBS.: 640

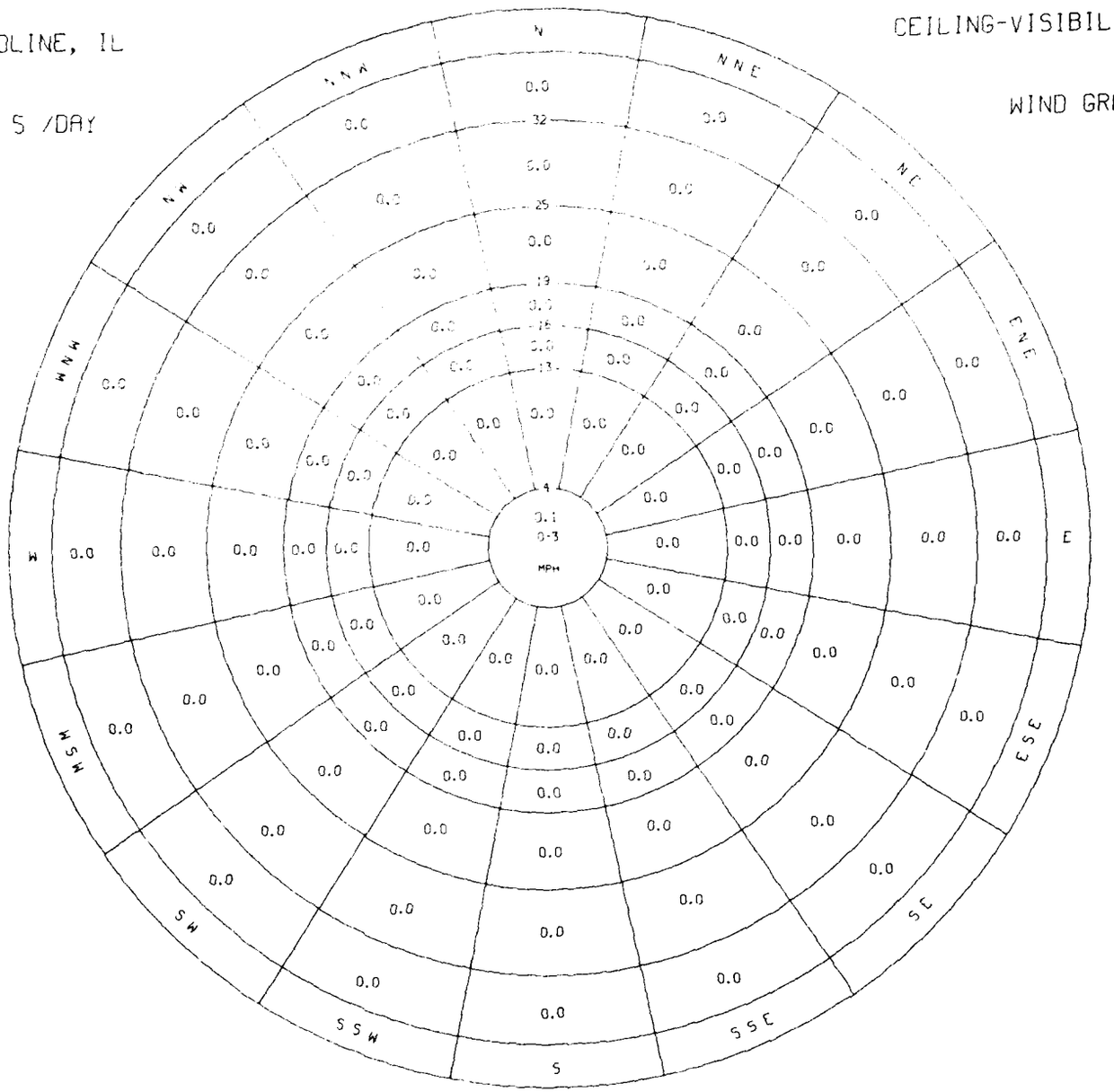
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.9	.0	3.1	.0	.5	.0	.3	.0	.9	.0	.3	.0	.0	.1	6.1	11.4
NNE	.0	.8	.0	2.3	.0	.9	.0	.2	.0	.5	.0	.0	.0	.0	.1	4.7	10.2
NE	.0	.3	.1	4.4	.0	1.7	.0	.6	.0	.3	.0	.3	.0	.0	.1	7.7	11.5
ENE	.0	.8	.1	9.1	.0	1.9	.0	1.1	.0	.8	.0	.0	.0	.0	.2	13.6	10.2
E	.0	.8	.2	10.3	.0	1.2	.0	1.1	.0	.5	.0	.2	.0	.0	.2	14.1	9.9
ESE	.0	.5	.1	3.7	.0	1.1	.0	.6	.0	.3	.0	.0	.0	.0	.1	6.3	9.9
SE	.0	.6	.0	3.0	.0	.5	.0	.3	.0	.2	.0	.0	.0	.0	.1	4.5	8.9
SSE	.0	.0	.0	3.0	.0	.9	.0	.8	.0	.2	.0	.0	.0	.0	.1	4.8	11.2
S	.0	.3	.1	3.9	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.1	4.8	8.7
SSW	.0	.3	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.5
SW	.0	.6	.0	1.1	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	2.0	7.8
WSW	.0	.6	.1	3.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.1	7.1
W	.0	.3	.1	5.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	.2	.1	5.8	8.5
WNW	.0	.0	.0	2.5	.0	.3	.0	.2	.0	.2	.0	.0	.0	.0	.0	3.1	10.4
NW	.0	.5	.0	1.6	.0	.2	.0	.3	.0	.2	.0	.5	.0	.0	.0	3.1	12.1
NNW	.0	.0	.0	1.6	.0	.2	.0	.5	.0	.8	.0	.0	.0	.0	.0	3.0	13.6
CALM	.2	10.8													.2	10.8	
TOTAL	.3	18.1	.9	58.9	.2	10.5	.1	6.3	.1	4.8	.0	1.2	.0	.2	1.6	100	9.0

MLI MOLINE, IL

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 5 / DAY

STATION NUMBER: 14923

NO. OBS.: 125

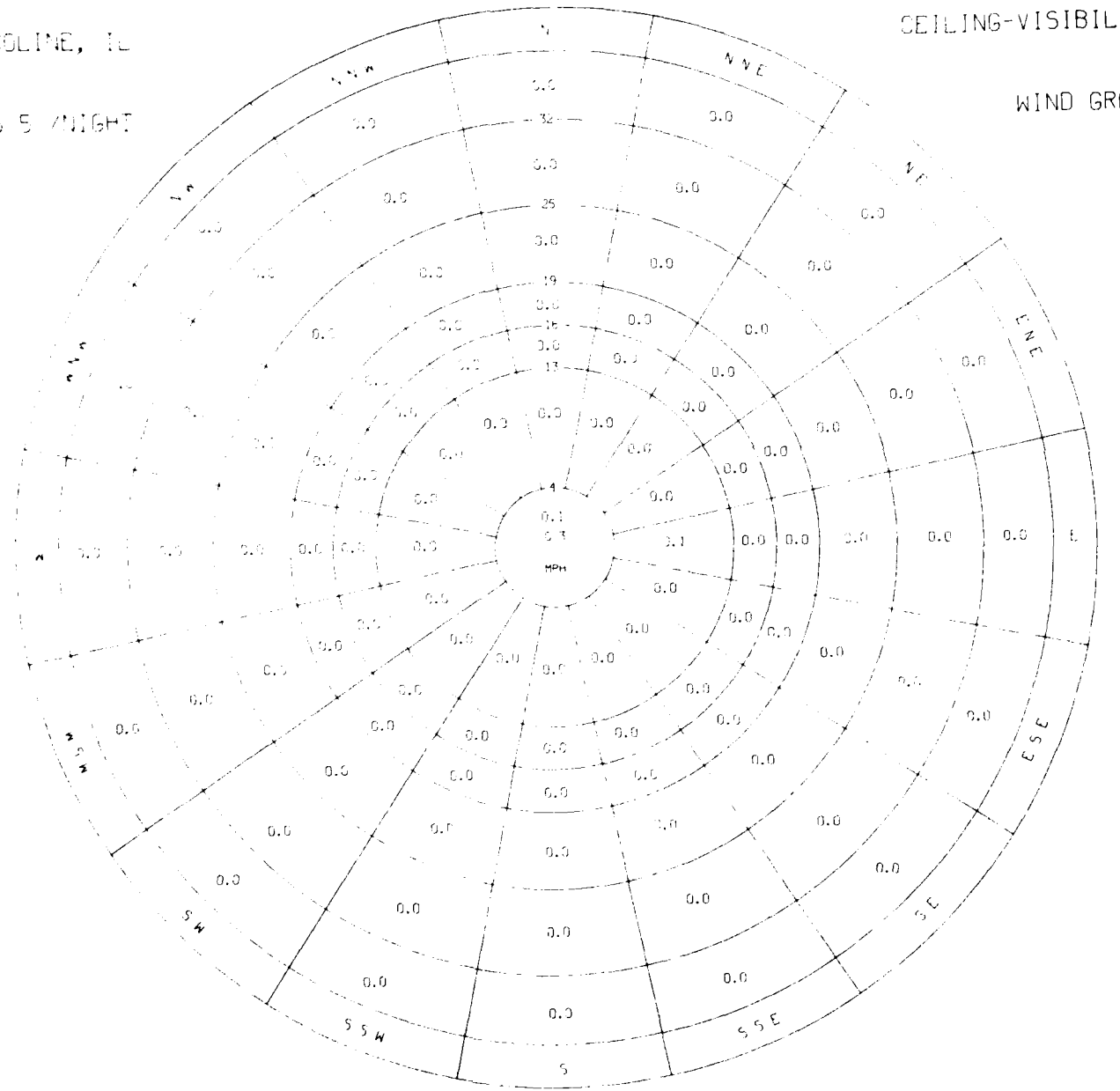
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNE	.0	.0	.0	3.2	.0	4.0	.0	.8	.0	2.4	.0	.0	.0	.0	.0	10.4	13.1
NE	.0	1.6	.0	4.0	.0	2.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	8.8	9.8
ENE	.0	.0	.0	6.4	.0	2.4	.0	.8	.0	1.6	.0	.0	.0	.0	.0	11.2	11.7
E	.0	4.0	.0	16.8	.0	3.2	.0	.0	.0	.8	.0	.0	.0	.0	.1	24.8	8.1
ESE	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	5.2
SE	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	6.3
SSE	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	8.0
S	.0	.8	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	2.4	8.3
SSW	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	3.0
SW	.0	.0	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	8.2
WSW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.0
W	.0	.8	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.7
WNW	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	8.0
NW	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.4	12.3
NNW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	6.5
CALM	.0	15.2													.0	15.2	
TOTAL	.1	26.4	.1	52.8	.0	12.0	.0	3.2	.0	5.6	.0	.0	.0	.0	.3	100	7.7

MLI MOLINE, IL

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 5 / NIGHT

STATION NUMBER: 14923

NO. OBS.: 174

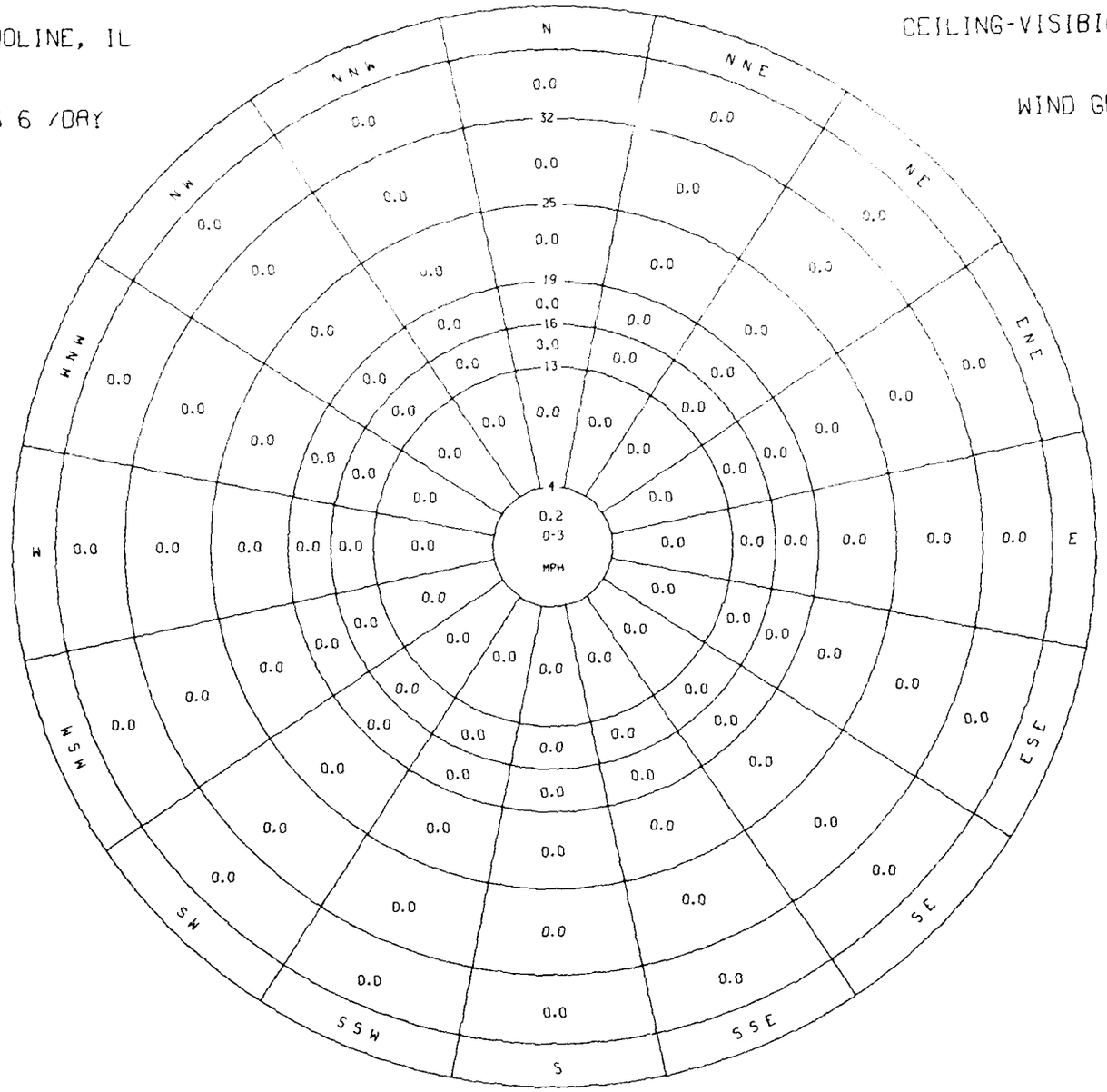
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	1.1	.0	.0	.0	.0	.0	1.1	.0	.6	.0	.0	.0	3.4	14.5
NNE	.0	.0	.0	1.1	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.7	9.3
NE	.0	1.1	.0	4.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	6.9
ENE	.0	.6	.0	8.0	.0	1.1	.0	1.1	.0	.6	.0	.0	.0	.0	.0	11.5	9.7
E	.0	.6	.1	13.8	.0	1.7	.0	.6	.0	.0	.0	.0	.0	.0	.1	16.7	8.5
ESE	.0	1.1	.0	5.7	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	8.0	7.3
SE	.0	.6	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	7.6
SSE	.0	.6	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.0
S	.0	1.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	4.2
SSW	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	14.0
SW	.0	.6	.0	2.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	8.1
WSW	.0	1.1	.0	1.7	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	4.0	10.0
W	.0	1.7	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.0
WNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.5
NW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.7	12.3
NNW	.0	.6	.0	.6	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	2.9	15.0
CALM	.1	23.0													.1	23.0	
TOTAL	.1	33.9	.2	51.7	.0	6.9	.0	2.9	.0	2.9	.0	1.7	.0	.0	.4	100	6.6

MLI MOLINE, IL

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 6 / DAY

STATION NUMBER: 14923

NO. OBS.: 160

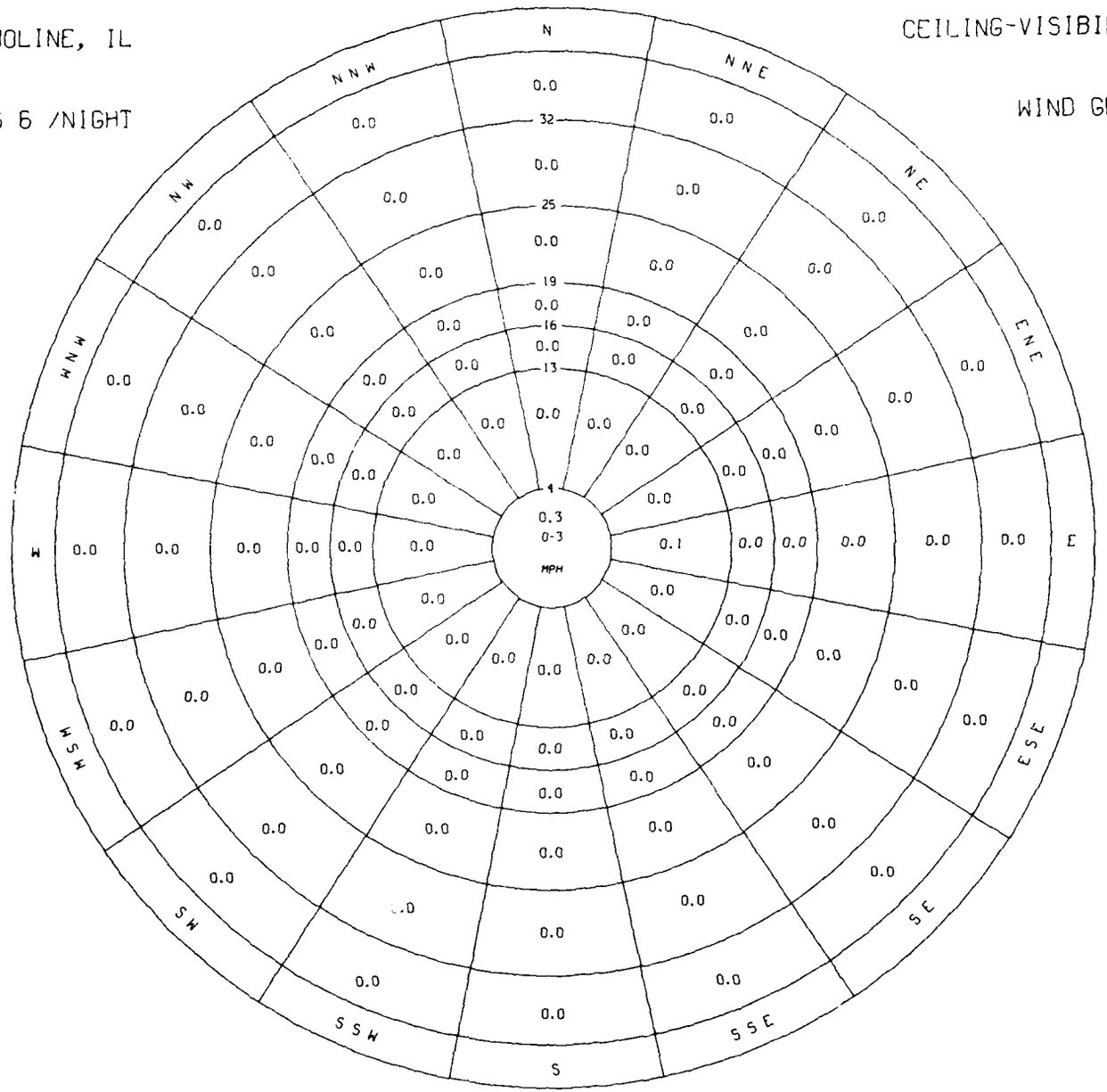
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.6
NNE	.0	.0	.0	1.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	2.5	9.5
NE	.0	.0	.0	3.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.5
ENE	.0	1.2	.0	6.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	8.7	7.2
E	.0	3.1	.0	12.5	.0	1.2	.0	.6	.0	.0	.0	.6	.0	.0	.1	18.1	7.5
ESE	.0	1.9	.0	6.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.7	6.4
SE	.0	1.2	.0	.6	.0	.0	0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.7
SSE	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	6.0
S	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.7
SSW	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	4.5
SW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	6.5
WSW	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	5.0
W	.0	.6	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.1
WNW	.0	1.2	.0	1.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	3.7	7.7
NW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.3
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	34.4													.1	34.4	
TOTAL	.2	47.5	.2	46.9	.0	2.5	.0	2.5	.0	.0	.0	.6	.0	.0	.3	100	4.5

MLI MOLINE, IL

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MLI MOLINE, IL

PERIOD: 1949-1978

CLASS 6 / NIGHT

STATION NUMBER: 14923

NO. OBS.: 254

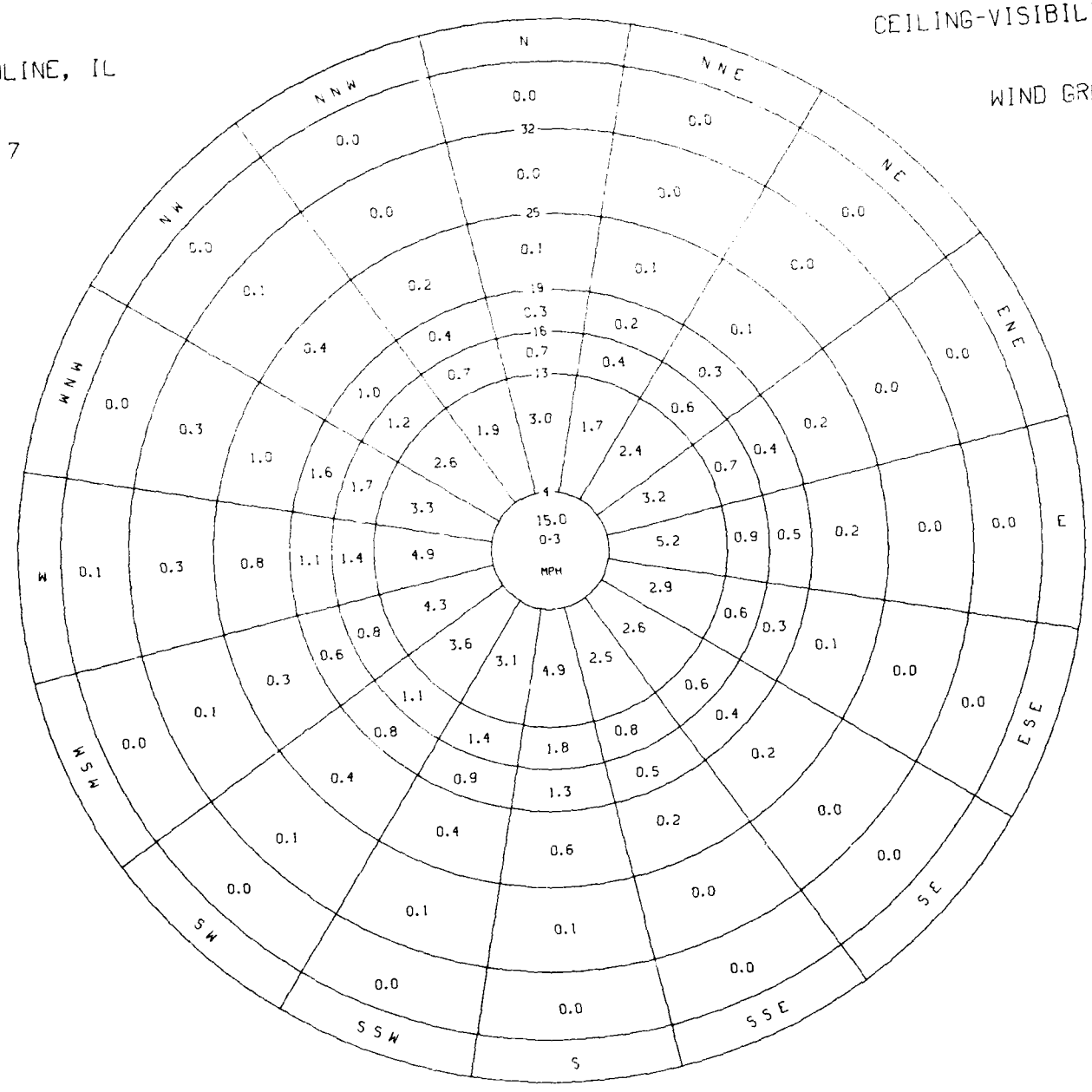
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	2.8	6.6
NNE	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	9.0
NE	.0	.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.6
ENE	.0	.4	.0	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.0
E	.0	1.6	.1	10.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	12.6	6.7
ESE	.0	1.2	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	6.5
SE	.0	1.6	.0	2.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.0
SSE	.0	.4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	6.3
S	.0	.8	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	5.6
SSW	.0	.4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	5.5
SW	.0	1.2	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	5.7
WSW	.0	1.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	5.4
W	.0	2.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	4.9
WNW	.0	.4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	5.8
NW	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	5.5
NNW	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	5.0
CALM	.2	34.6													.2	34.6	
TOTAL	.3	49.2	.3	49.6	.0	.8	.0	.0	.0	.4	.0	.0	.0	.0	.6	100	4.0

MLI MOLINE, IL

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

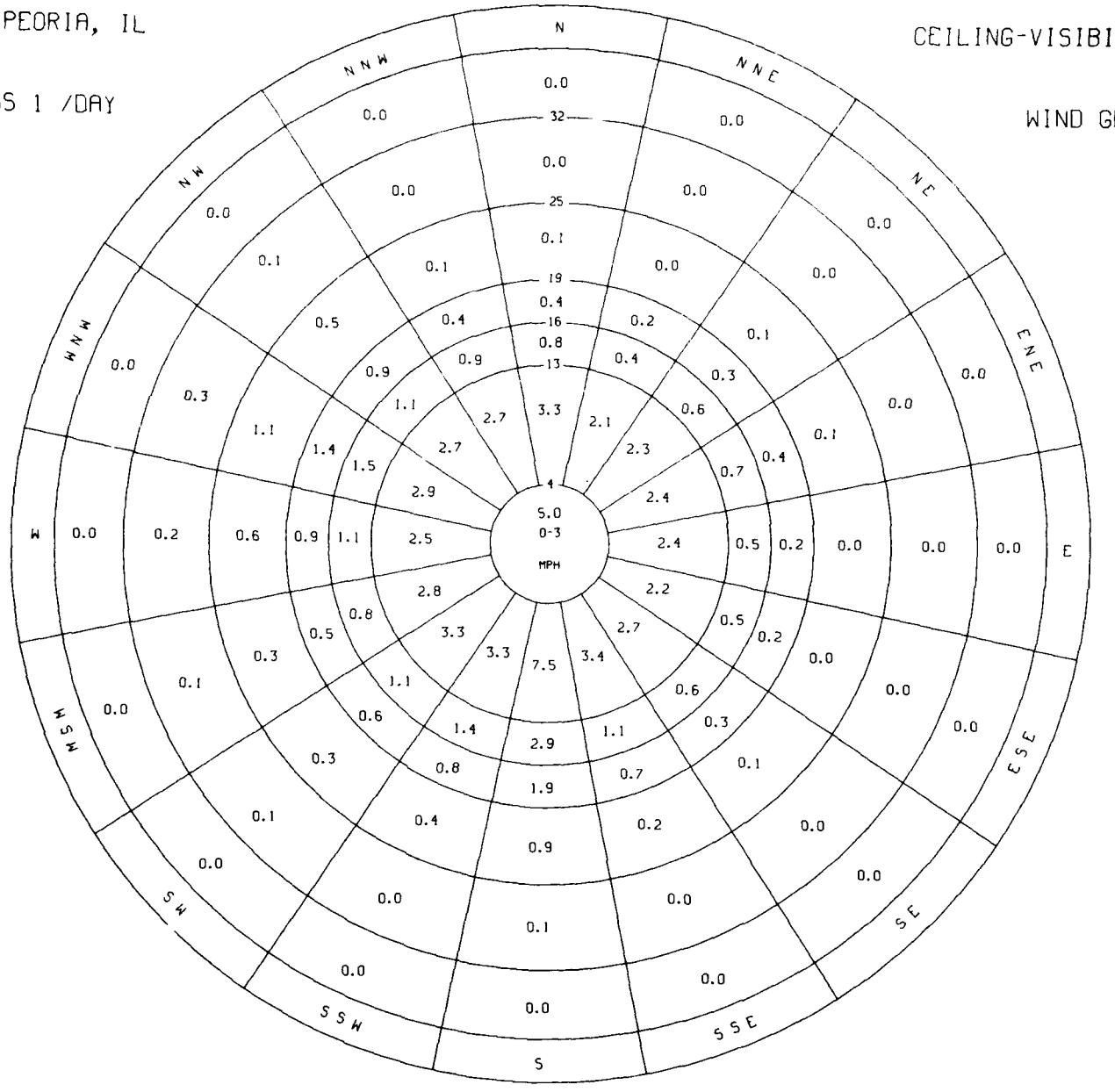


PIA PEORIA, IL

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 14842

NO. OBS.: 34269

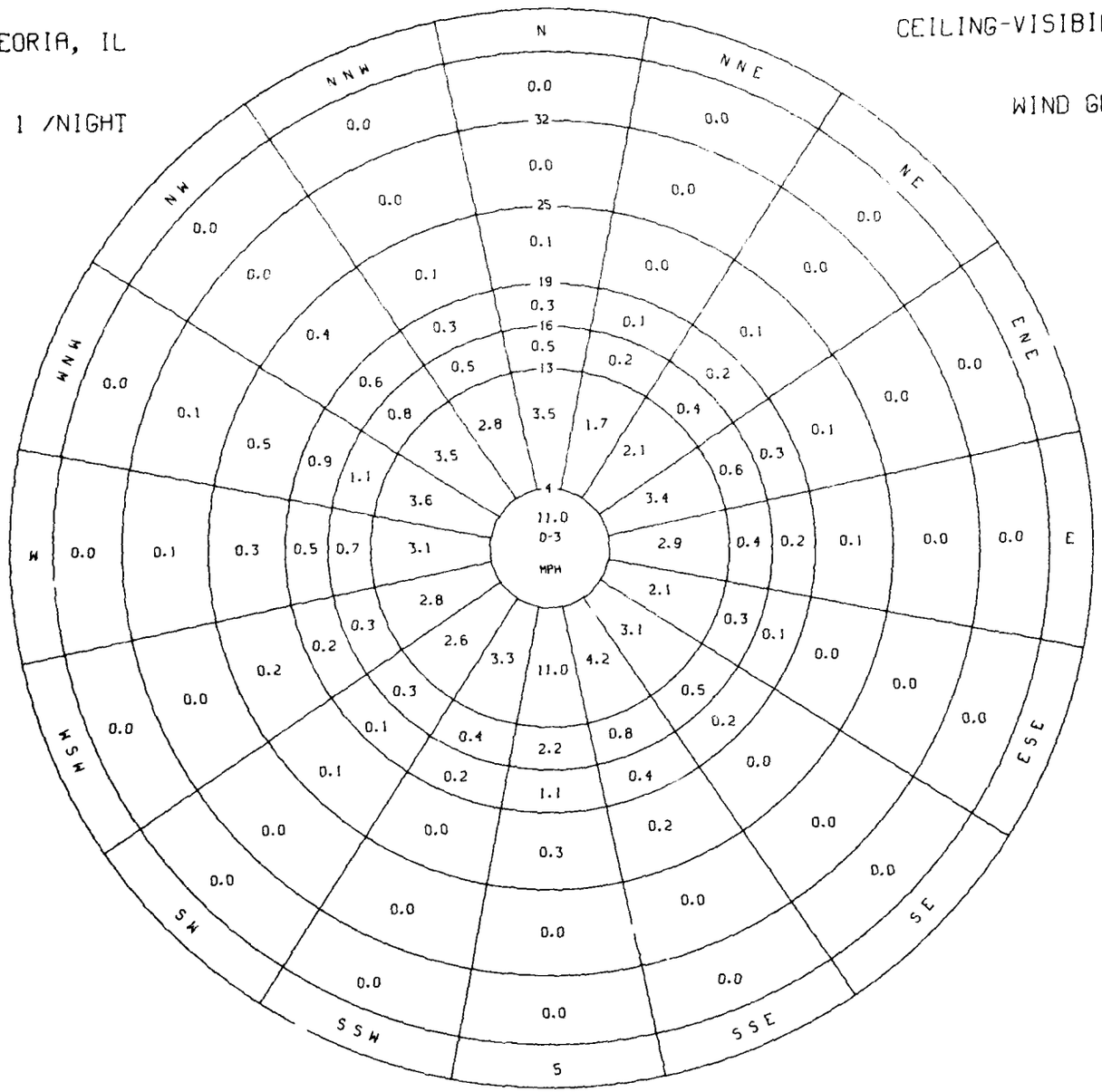
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.3	3.3	3.9	.8	1.0	.4	.5	.1	.1	.0	.0	.0	.0	4.9	5.8	10.1
NNE	.2	.3	2.1	2.5	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	3.0	3.6	9.4
NE	.2	.2	2.3	2.7	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	3.4	4.0	10.0
ENE	.3	.3	2.4	2.8	.7	.8	.4	.4	.1	.1	.0	.0	.0	.0	3.7	4.4	10.1
E	.2	.2	2.4	2.8	.5	.5	.2	.2	.0	.1	.0	.0	.0	.0	3.2	3.8	9.4
ESE	.2	.3	2.2	2.6	.5	.5	.2	.3	.0	.0	.0	.0	.0	.0	3.2	3.7	9.4
SE	.2	.2	2.7	3.2	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.9	4.6	9.8
SSE	.2	.3	3.4	4.0	1.1	1.2	.7	.9	.2	.3	.0	.0	.0	.0	5.7	6.7	11.0
S	.4	.5	7.5	8.8	2.9	3.4	1.9	2.3	.9	1.0	.1	.1	.0	.0	13.8	16.2	11.7
SSW	.3	.3	3.3	3.9	1.4	1.6	.8	1.0	.4	.4	.0	.0	.0	.0	6.1	7.2	11.5
SW	.2	.3	3.3	3.8	1.1	1.3	.6	.7	.3	.3	.1	.1	.0	.0	5.6	6.5	11.3
WSW	.3	.3	2.8	3.3	.8	1.0	.5	.6	.3	.4	.1	.1	.0	.0	4.9	5.7	11.3
W	.2	.3	2.5	2.9	1.1	1.3	.9	1.1	.6	.7	.2	.2	.0	.0	5.6	6.6	12.8
WNW	.2	.2	2.9	3.4	1.5	1.7	1.4	1.7	1.1	1.3	.3	.3	.0	.0	7.4	8.6	13.8
NW	.2	.3	2.7	3.1	1.1	1.3	.9	1.0	.5	.5	.1	.1	.0	.0	5.5	6.4	12.1
NNW	.2	.3	2.7	3.1	.9	1.1	.4	.5	.1	.2	.0	.0	.0	.0	4.4	5.2	10.6
CALM	1.1	1.2													1.1	1.2	
TOTAL	5.0	5.8	48.5	56.7	16.0	18.7	10.3	12.1	4.8	5.6	.9	1.0	.1	.1	85.5	100	11.1

PIA PEORIA, IL

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 14842

NO. OBS.: 30030

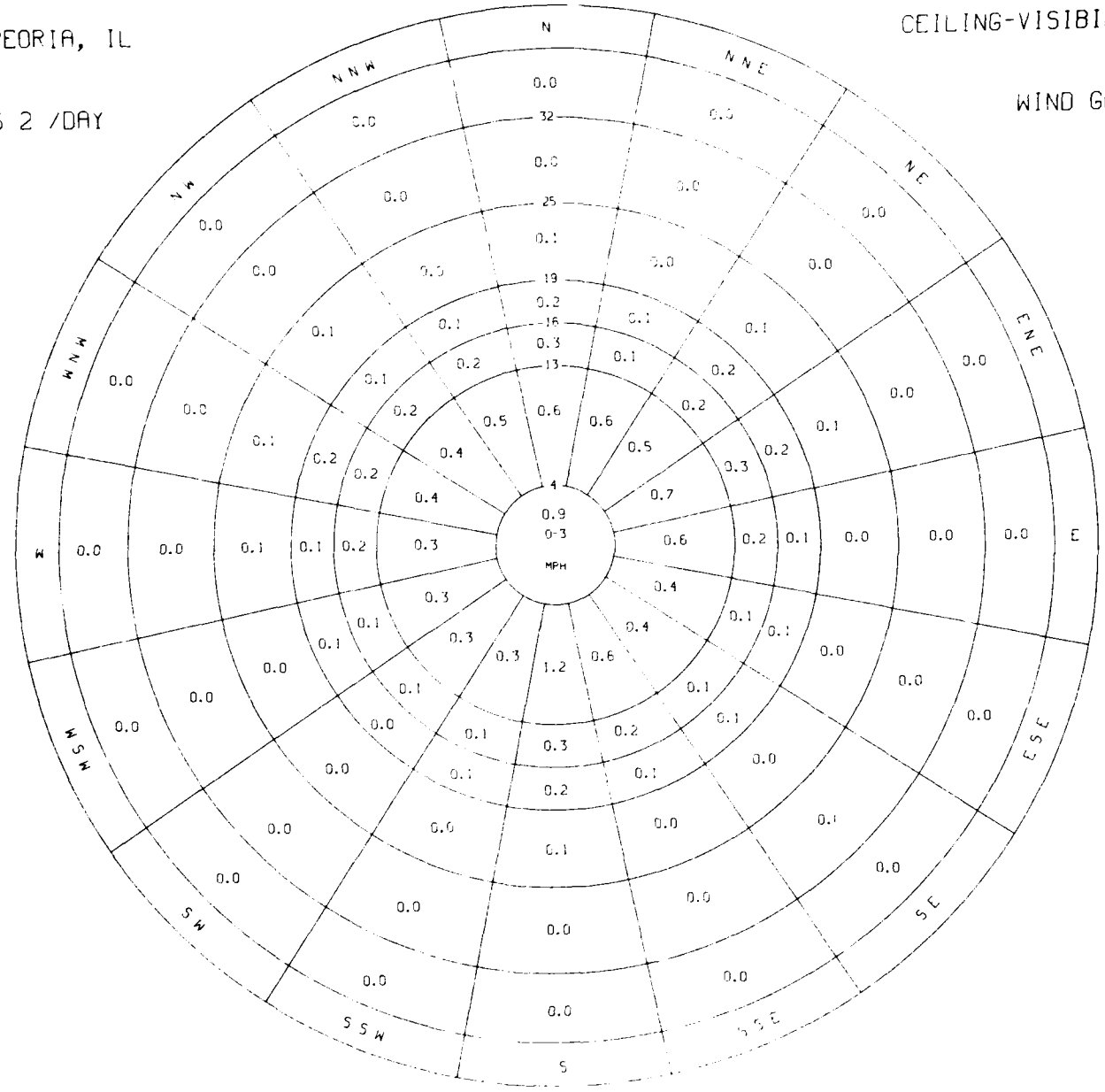
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.6	3.5	4.1	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.8	5.6	8.6
NNE	.3	.3	1.7	2.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.2	2.6	8.0
NE	.3	.4	2.1	2.4	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.1	3.6	9.2
ENE	.4	.5	3.4	4.0	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	4.9	5.7	9.4
E	.3	.3	2.9	3.4	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.9	4.6	9.0
ESE	.4	.5	2.1	2.5	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.4	8.2
SE	.4	.5	3.1	3.6	.5	.6	.2	.3	.0	.1	.0	.0	.0	.0	4.2	5.0	8.8
SSE	.4	.5	4.2	5.0	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	6.1	7.1	9.4
S	1.0	1.1	11.0	12.9	2.2	2.6	1.1	1.2	.3	.3	.0	.0	.0	.0	15.5	18.2	9.5
SSW	.5	.6	3.3	3.9	.4	.5	.2	.2	.0	.1	.0	.0	.0	.0	4.4	5.2	8.2
SW	.5	.6	2.6	3.1	.3	.3	.1	.1	.1	.1	.0	.0	.0	.0	3.6	4.2	8.1
WSW	.6	.7	2.8	3.3	.3	.4	.2	.3	.2	.2	.0	.0	.0	.0	4.1	4.8	8.6
W	.6	.6	3.1	3.6	.7	.9	.5	.6	.3	.3	.1	.1	.0	.0	5.3	6.2	10.2
WNW	.5	.6	3.6	4.3	1.1	1.3	.9	1.1	.5	.6	.1	.2	.0	.0	6.8	8.0	11.3
NW	.5	.5	3.5	4.1	.8	.9	.6	.7	.4	.4	.0	.1	.0	.0	5.8	6.7	10.4
NNW	.4	.4	2.8	3.3	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	4.2	4.9	9.4
CALM	3.5	4.1													3.5	4.1	
TOTAL	11.0	12.9	55.7	65.4	10.0	11.8	5.8	6.8	2.3	2.7	.4	.5	.0	.1	85.3	100	9.0

PIA PEORIA, IL

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14842

NO. OBS.: 5798

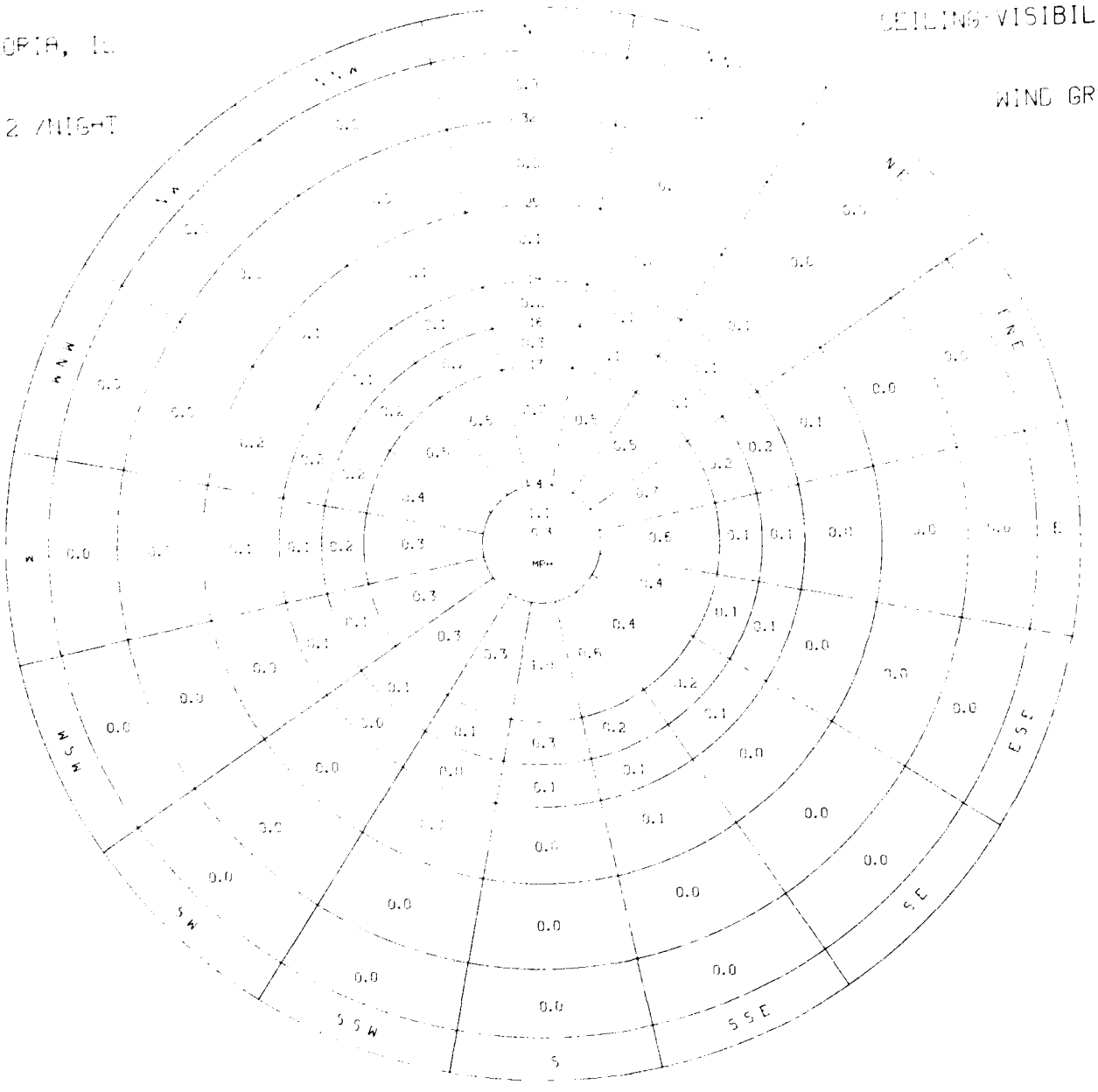
DIR	SPEED GROUPS (MPH)														TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.6	4.3	.3	1.8	.2	1.1	.1	.5	.0	.1	.0	.0	1.2	8.2	11.6
NNE	.0	.1	.6	3.8	.1	1.0	.1	.5	.0	.3	.0	.1	.0	.0	.8	5.8	11.1
NE	.0	.2	.5	3.4	.2	1.5	.2	1.1	.1	.5	.0	.1	.0	.0	1.0	6.8	12.3
ENE	.1	.4	.7	5.0	.3	1.9	.2	1.1	.1	.4	.0	.0	.0	.0	1.3	8.7	11.2
E	.1	.4	.6	4.2	.2	1.1	.1	.4	.0	.2	.0	.0	.0	.0	.9	6.4	9.8
ESE	.0	.3	.4	2.5	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.1	10.3
SE	.0	.3	.4	3.1	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.7	4.6	10.4
SSE	.0	.2	.6	4.1	.2	1.2	.1	.9	.0	.3	.0	.1	.0	.0	1.0	6.8	10.8
S	.1	.8	1.2	8.5	.3	2.1	.2	1.4	.1	.5	.0	.1	.0	.0	1.9	13.3	10.4
SSW	.1	.4	.3	2.4	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.0	10.0
SW	.0	.3	.3	2.2	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.3	9.8
WSW	.0	.3	.3	2.1	.1	.6	.1	.5	.0	.2	.0	.0	.0	.0	.5	3.7	10.7
W	.0	.1	.3	1.8	.2	1.3	.1	.9	.1	.6	.0	.2	.0	.0	.7	5.1	13.8
WNW	.0	.2	.4	2.6	.2	1.5	.2	1.3	.1	.6	.0	.3	.0	.0	.9	6.5	13.6
NW	.0	.2	.4	2.7	.2	1.2	.1	.8	.1	.4	.0	.1	.0	.0	.8	5.3	12.4
NNW	.0	.2	.5	3.3	.2	1.1	.1	.9	.0	.3	.0	.0	.0	.0	.8	5.7	11.6
CALM	.2	1.6													.2	1.6	
TOTAL	.9	6.3	8.1	56.2	2.7	18.6	1.8	12.4	.8	5.3	.2	1.2	.0	.1	14.5	100	11.1

PIA PEORIA, IL

CEILING-VISIBILITY

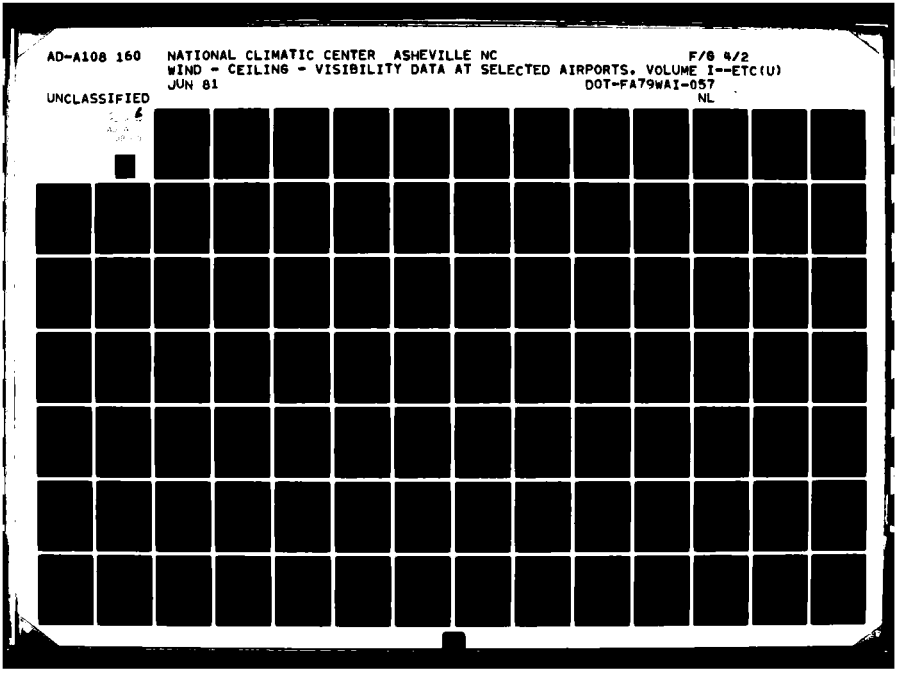
CLASS 2 /NIGHT

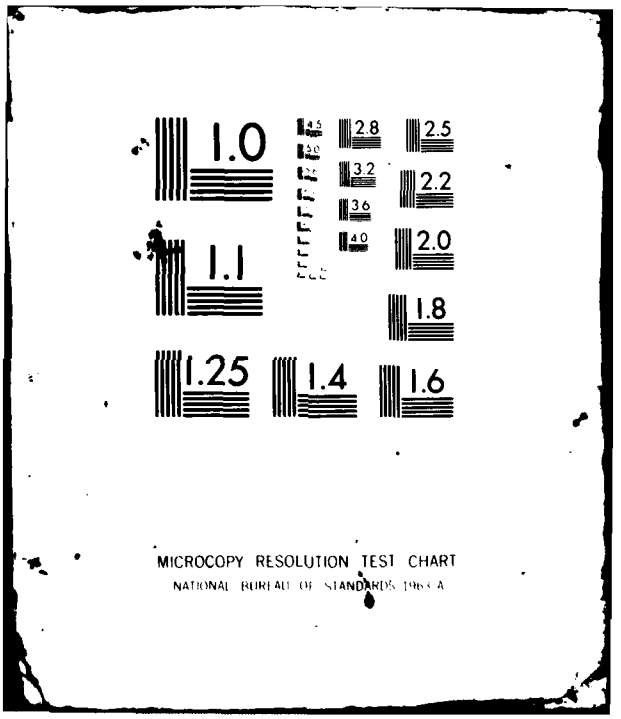
WIND GRAPH



AD-A108 160 NATIONAL CLIMATIC CENTER ASHEVILLE NC F/G 4/2
WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS, VOLUME I--ETC(U)
JUN 81 DOT-FA79WAI-057

UNCLASSIFIED NL

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1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
4.5
5.0
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 14842

NO. OBS.: 5180

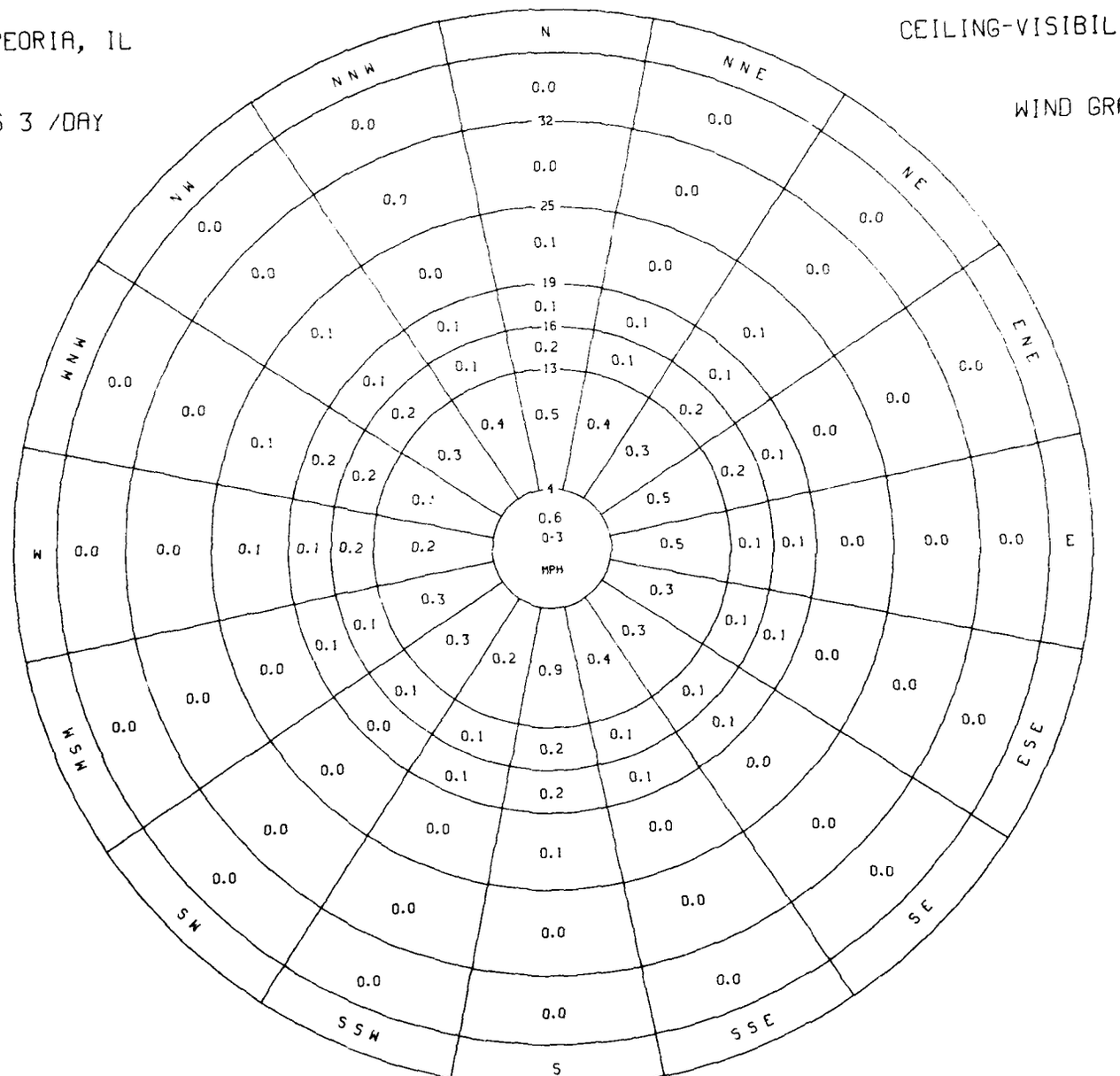
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.7	4.7	.3	2.2	.2	1.5	.1	.7	.0	.1	.0	.0	1.4	9.5	12.1
NNE	.0	.2	.5	3.2	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.1	10.9
NE	.0	.3	.5	3.5	.1	1.0	.1	.9	.1	.3	.0	.1	.0	.0	.9	6.1	11.6
ENE	.1	.5	.7	4.9	.2	1.6	.2	1.3	.1	.6	.0	.1	.0	.0	1.3	9.0	11.5
E	.1	.4	.6	3.9	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.9	6.1	10.1
ESE	.0	.3	.4	2.5	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.0	10.1
SE	.0	.3	.4	2.8	.2	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.7	4.8	10.2
SSE	.0	.3	.6	3.8	.2	1.6	.1	.8	.1	.4	.0	.0	.0	.0	1.0	6.9	11.3
S	.1	.5	1.0	6.9	.3	2.1	.1	.8	.0	.3	.0	.1	.0	.0	1.6	10.8	10.5
SSW	.0	.3	.3	2.4	.1	.7	.0	.3	.0	.1	.0	.1	.0	.0	.6	3.8	9.8
SW	.1	.4	.3	2.0	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.1	9.0
WSW	.1	.3	.3	2.2	.1	.6	.1	.5	.0	.2	.0	.1	.0	.0	.6	3.9	10.5
W	.0	.2	.3	1.9	.2	1.2	.1	1.0	.1	.5	.0	.2	.0	.0	.7	5.0	13.4
WNW	.0	.3	.4	2.8	.2	1.5	.2	1.1	.2	1.1	.0	.3	.0	.1	1.0	7.0	13.5
NW	.0	.3	.5	3.1	.2	1.3	.1	1.0	.1	.4	.0	.1	.0	.0	.9	6.1	11.9
NNW	.0	.3	.5	3.6	.2	1.2	.1	1.0	.1	.4	.0	.0	.0	.0	1.0	6.5	11.7
CALM	.3	2.1													.3	2.1	
TOTAL	1.1	7.4	8.0	54.2	2.8	18.9	1.9	12.6	.8	5.7	.2	1.1	.0	.1	14.7	100	11.1

PIA PEORIA, IL

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 14842

NO. OBS.: 4700

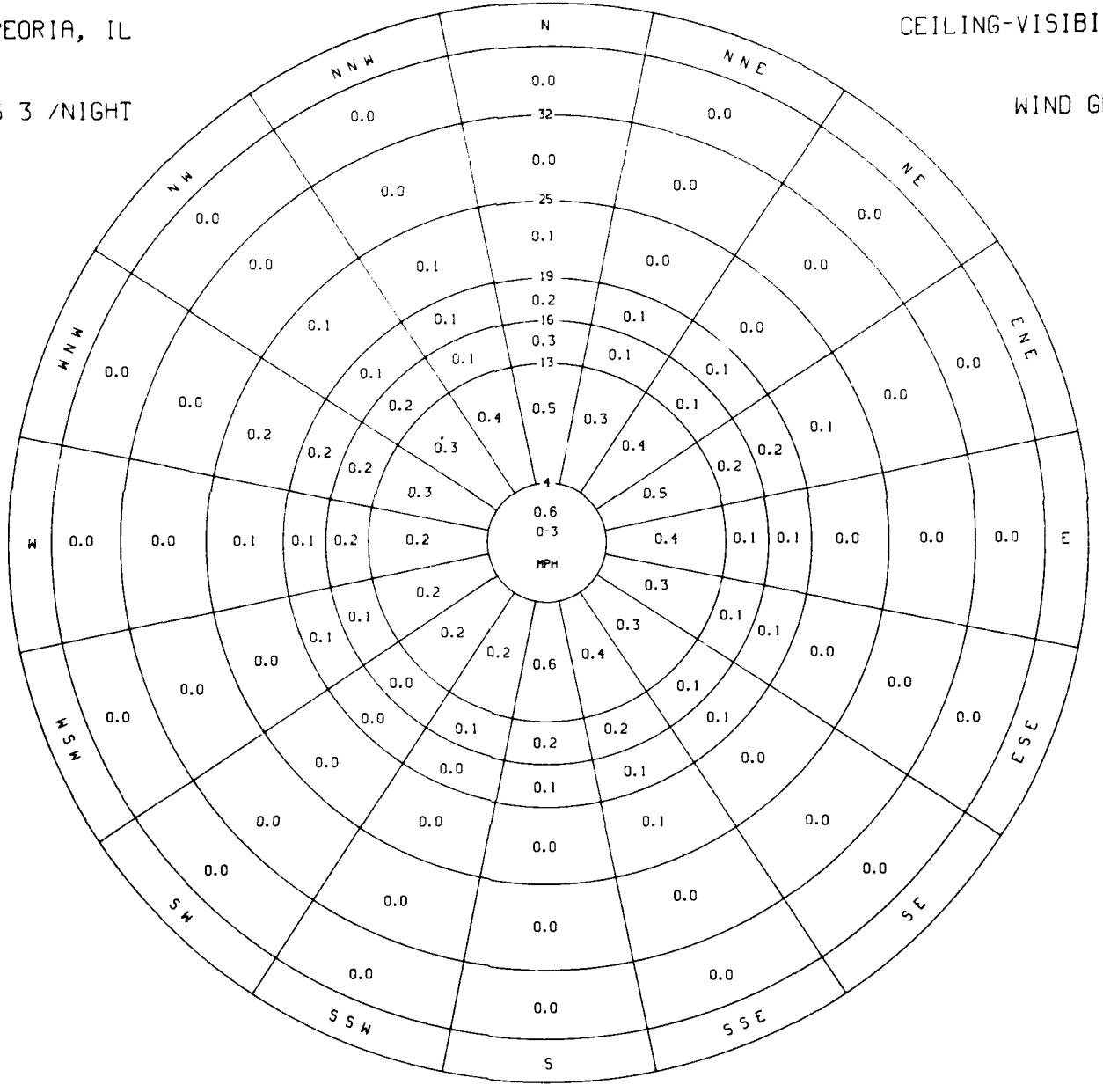
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.5	4.4	.2	1.9	.1	1.3	.1	.5	.0	.1	.0	.0	1.0	8.4	12.0
NNE	.0	.1	.4	3.7	.1	1.1	.1	.4	.0	.4	.0	.1	.0	.0	.7	5.8	11.2
NE	.0	.2	.3	3.0	.2	1.6	.1	1.2	.1	.5	.0	.1	.0	.0	.8	6.5	12.7
ENE	.0	.3	.5	4.7	.2	2.0	.1	1.2	.0	.4	.0	.0	.0	.0	1.0	8.6	11.6
E	.0	.4	.5	4.0	.1	1.3	.1	.4	.0	.1	.0	.0	.0	.0	.7	6.3	10.1
ESE	.0	.2	.3	2.6	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.5	4.1	10.5
SE	.0	.2	.3	2.8	.1	.7	.1	.6	.0	.1	.0	.0	.0	.0	.5	4.4	10.7
SSE	.0	.3	.4	3.6	.1	1.3	.1	.9	.0	.4	.0	.1	.0	.0	.8	6.4	11.3
S	.1	.6	.9	7.6	.2	1.9	.2	1.5	.1	.5	.0	.1	.0	.0	1.4	12.2	10.9
SSW	.0	.3	.2	2.1	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.4	3.7	10.6
SW	.0	.3	.3	2.2	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.4	10.3
WSW	.0	.3	.3	2.2	.1	.6	.1	.6	.0	.3	.0	.0	.0	.0	.5	4.0	11.2
W	.0	.1	.2	1.9	.2	1.6	.1	1.1	.1	.7	.0	.2	.0	.0	.7	5.7	14.1
WNW	.0	.2	.3	2.8	.2	1.8	.2	1.5	.1	.7	.0	.4	.0	.0	.9	7.4	13.9
NW	.0	.2	.3	2.7	.2	1.3	.1	.9	.1	.5	.0	.1	.0	.0	.7	5.7	12.6
NNW	.0	.1	.4	3.4	.1	1.3	.1	1.0	.0	.3	.0	.0	.0	.0	.7	6.0	11.8
CALM	.1	1.3													.1	1.3	
TOTAL	.6	5.2	6.3	53.6	2.4	20.1	1.6	13.8	.7	5.9	.2	1.3	.0	.1	11.7	100	11.5

PIA PEORIA, IL

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14842

NO. OBS.: 3877

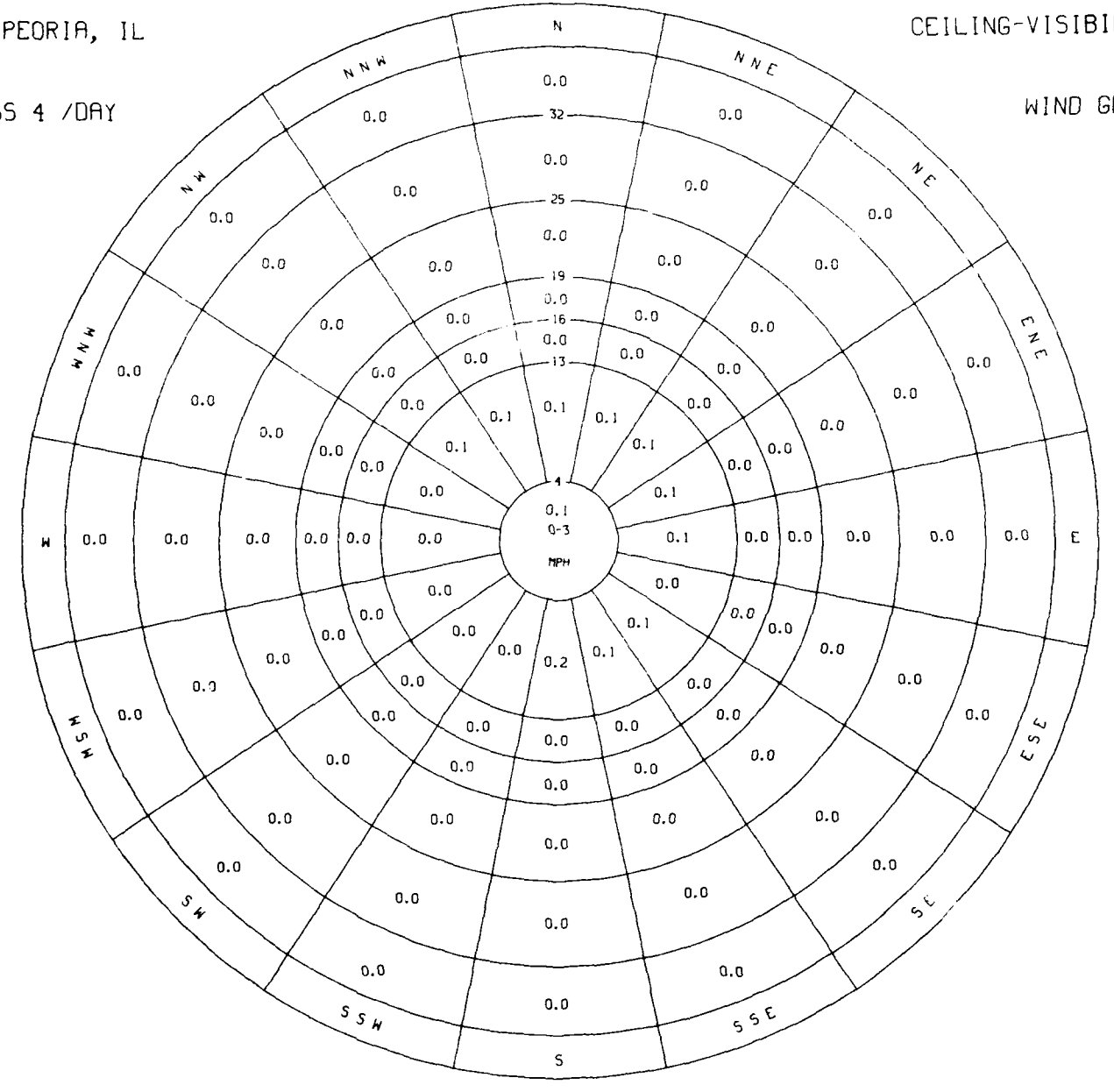
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.5	4.7	.3	2.6	.2	1.8	.1	.9	.0	.1	.0	.0	1.1	10.4	12.6
NNE	.0	.1	.3	3.2	.1	1.0	.1	.6	.0	.2	.0	.1	.0	.0	.6	5.1	11.1
NE	.0	.2	.4	3.5	.1	1.1	.1	1.1	.0	.4	.0	.1	.0	.0	.7	6.4	12.0
ENE	.0	.3	.5	4.8	.2	1.5	.2	1.4	.1	.7	.0	.1	.0	.0	1.0	8.8	11.9
E	.0	.4	.4	3.4	.1	1.1	.1	.6	.0	.2	.0	.0	.0	.0	.6	5.8	10.5
ESE	.0	.2	.3	2.5	.1	.8	.1	.6	.0	.1	.0	.0	.0	.0	.5	4.2	10.8
SE	.0	.4	.3	2.3	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.5	4.4	10.5
SSE	.0	.3	.4	3.3	.2	1.4	.1	.8	.1	.5	.0	.0	.0	.0	.7	6.3	11.5
S	.0	.4	.6	5.3	.2	2.0	.1	.9	.0	.3	.0	.1	.0	.0	1.0	9.0	11.0
SSW	.0	.3	.2	2.1	.1	.7	.0	.3	.0	.1	.0	.1	.0	.0	.4	3.5	10.4
SW	.0	.4	.2	1.9	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.3	3.0	9.5
WSW	.0	.3	.2	2.2	.1	.7	.1	.7	.0	.2	.0	.1	.0	.0	.5	4.3	11.4
W	.0	.2	.2	2.1	.2	1.4	.1	1.3	.1	.7	.0	.1	.0	.0	.6	5.9	13.6
WNW	.0	.2	.3	2.9	.2	1.9	.2	1.4	.2	1.4	.0	.3	.0	.1	.9	8.2	14.3
NW	.0	.1	.3	3.1	.2	1.6	.1	1.2	.1	.5	.0	.1	.0	.0	.7	6.7	12.7
NNW	.0	.1	.4	3.6	.1	1.3	.1	1.2	.1	.6	.0	.1	.0	.0	.8	6.8	12.4
CALM	.1	1.3													.1	1.3	
TOTAL	.6	5.5	5.6	50.8	2.3	20.6	1.6	14.8	.8	7.0	.1	1.3	.0	.1	11.0	100	11.7

PIA PEORIA, IL

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14842

NO. OBS.: 725

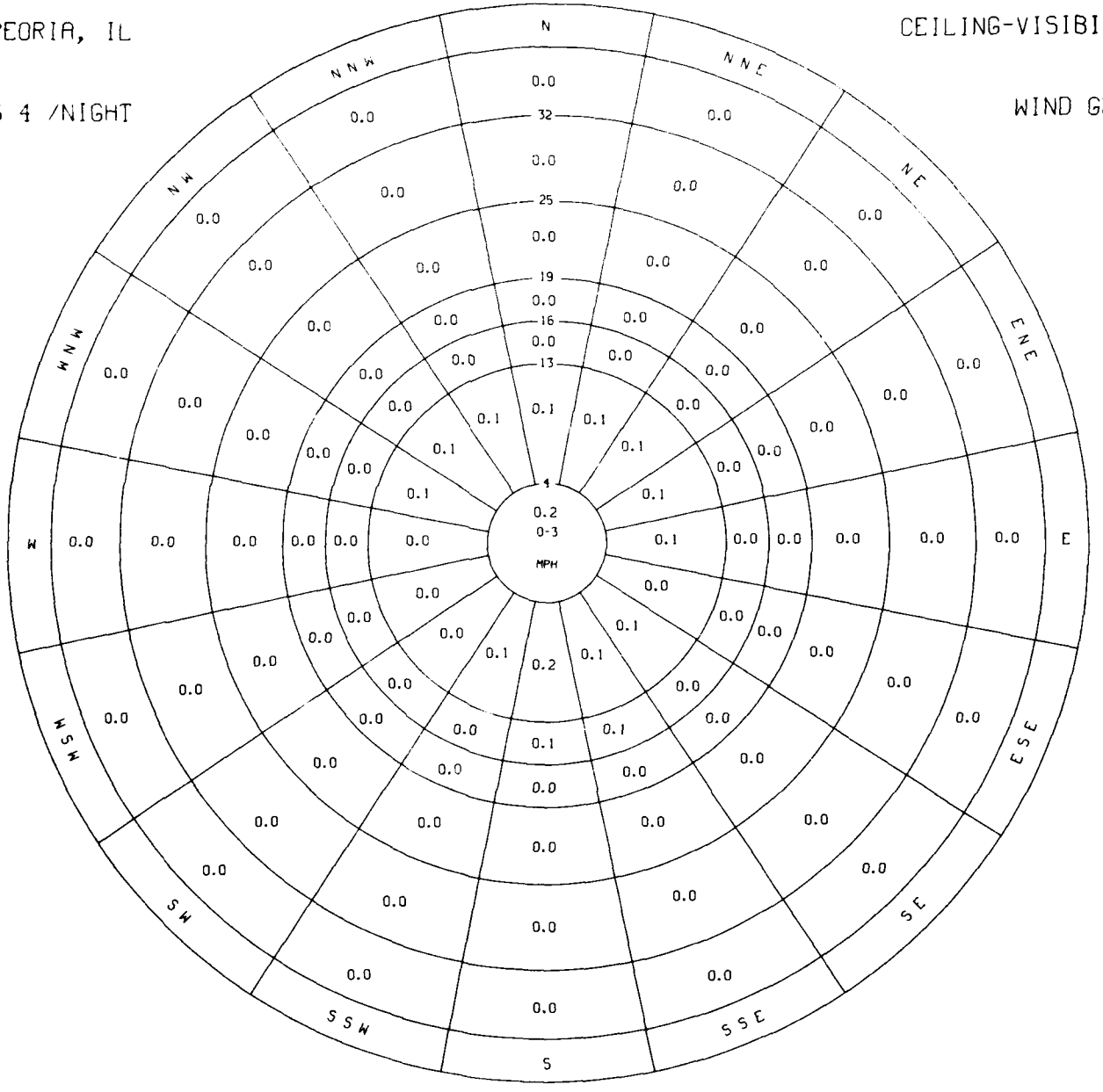
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.0	.1	4.6	.0	1.8	.0	.6	.0	.8	.0	.0	.0	.0	.2	8.7	10.7
NNE	.0	.0	.1	4.6	.0	1.1	.0	.8	.0	.1	.0	.0	.0	.0	.1	6.6	10.7
NE	.0	.3	.1	5.7	.0	1.2	.0	.7	.0	.8	.0	.3	.0	.0	.2	9.0	11.3
ENE	.0	.4	.1	6.1	.0	1.4	.0	1.0	.0	.4	.0	.0	.0	.0	.2	9.2	10.6
E	.0	.7	.1	4.8	.0	.7	.0	.7	.0	.3	.0	.0	.0	.0	.1	7.2	9.2
ESE	.0	.4	.0	2.5	.0	1.1	.0	.3	.0	.1	.0	.0	.0	.0	.1	4.4	9.8
SE	.0	.3	.1	2.9	.0	.8	.0	.1	.0	.1	.0	.0	.0	.0	.1	4.3	10.0
SSE	.0	.1	.1	5.0	.0	1.0	.0	1.1	.0	.1	.0	.0	.0	.0	.1	7.3	10.8
S	.0	.8	.2	11.0	.0	2.8	.0	1.2	.0	.3	.0	.0	.0	.0	.3	16.1	10.0
SSW	.0	.4	.0	2.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.1	.1	4.0	9.5
SW	.0	.3	.0	2.5	.0	.1	.0	.0	.0	.0	.0	.1	.0	.0	.1	3.0	8.9
WSW	.0	.3	.0	2.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.6	7.9
W	.0	.1	.0	1.9	.0	.6	.0	.1	.0	.0	.0	.3	.0	.0	.1	3.0	11.0
WNW	.0	.0	.0	1.8	.0	.6	.0	.6	.0	.1	.0	.0	.0	.0	.1	3.0	11.5
NW	.0	.1	.1	3.2	.0	.1	.0	.3	.0	.4	.0	.0	.0	.1	.1	4.3	11.0
NNW	.0	.3	.1	3.4	.0	.4	.0	.8	.0	.3	.0	.0	.0	.0	.1	5.2	11.2
CALM	.0	1.9													.0	1.9	
TOTAL	.1	7.4	1.2	64.6	.3	14.6	.2	8.4	.1	4.0	.0	.7	.0	.3	1.8	100	10.1

PIA PEORIA, IL

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14842

NO. OBS.: 753

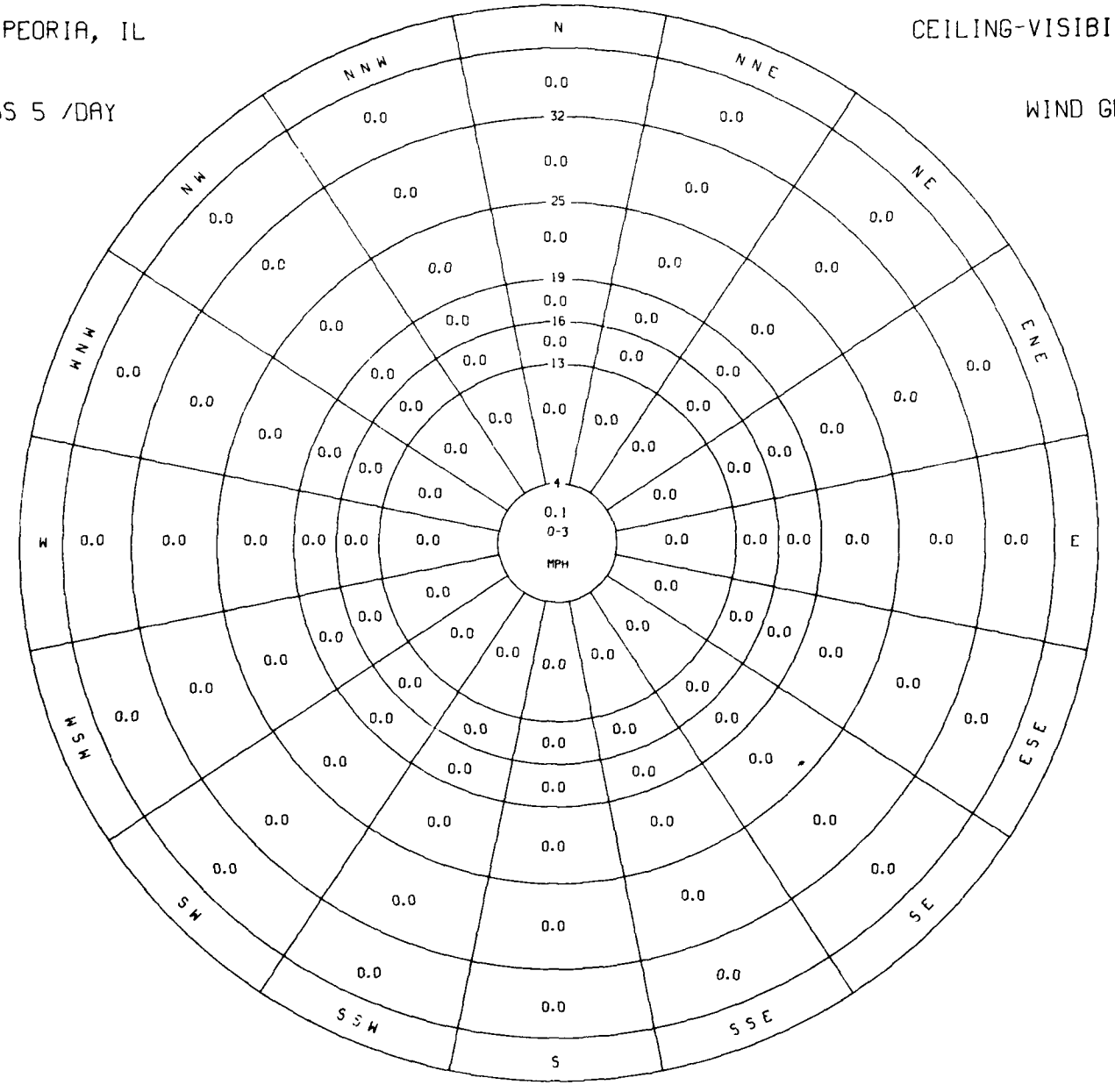
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.1	6.0	.0	1.3	.0	.8	.0	.3	.0	.1	.0	.1	.2	8.8	11.2
NNE	.0	.1	.1	3.2	.0	.8	.0	.9	.0	.4	.0	.0	.0	.0	.1	5.4	11.9
NE	.0	.3	.1	4.4	.0	.8	.0	1.1	.0	.5	.0	.0	.0	.0	.2	7.0	11.1
ENE	.0	.3	.1	4.9	.0	2.3	.0	1.9	.0	.3	.0	.0	.0	.0	.2	9.6	11.9
E	.0	.3	.1	5.6	.0	1.2	.0	.5	.0	.1	.0	.0	.0	.0	.2	7.7	9.9
ESE	.0	.8	.0	1.9	.0	.7	.0	.0	.0	.1	.0	.0	.0	.0	.1	3.5	8.5
SE	.0	.4	.1	3.5	.0	1.3	.0	.5	.0	.0	.0	.0	.0	.0	.1	5.7	10.2
SSE	.0	.0	.1	5.0	.1	2.4	.0	1.1	.0	.3	.0	.0	.0	.0	.2	8.8	11.4
S	.0	.7	.2	9.2	.1	2.8	.0	.7	.0	.3	.0	.0	.0	.0	.3	13.5	10.2
SSW	.0	.4	.1	2.8	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.1	4.1	9.3
SW	.0	.3	.0	1.7	.0	.1	.0	.0	.0	.1	.0	.0	.0	.0	.0	2.3	9.3
WSW	.0	.4	.0	1.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	7.5
W	.0	.3	.0	1.2	.0	.5	.0	.3	.0	.0	.0	.5	.0	.1	.1	2.9	14.5
WNW	.0	.4	.1	2.5	.0	.5	.0	.4	.0	.1	.0	.0	.0	.0	.1	4.0	9.5
NW	.0	.4	.1	3.5	.0	.9	.0	.4	.0	.1	.0	.0	.0	.0	.1	5.3	10.0
NNW	.0	.5	.1	4.4	.0	1.1	.0	.8	.0	.1	.0	.0	.0	.0	.1	6.9	9.9
CALM	.1	2.4													.1	2.4	
TOTAL	.2	8.0	1.3	61.2	.4	17.5	.2	9.6	.1	2.8	.0	.7	.0	.3	2.1	100	10.3

PIA PEORIA, IL

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14842

NO. OBS.: 172

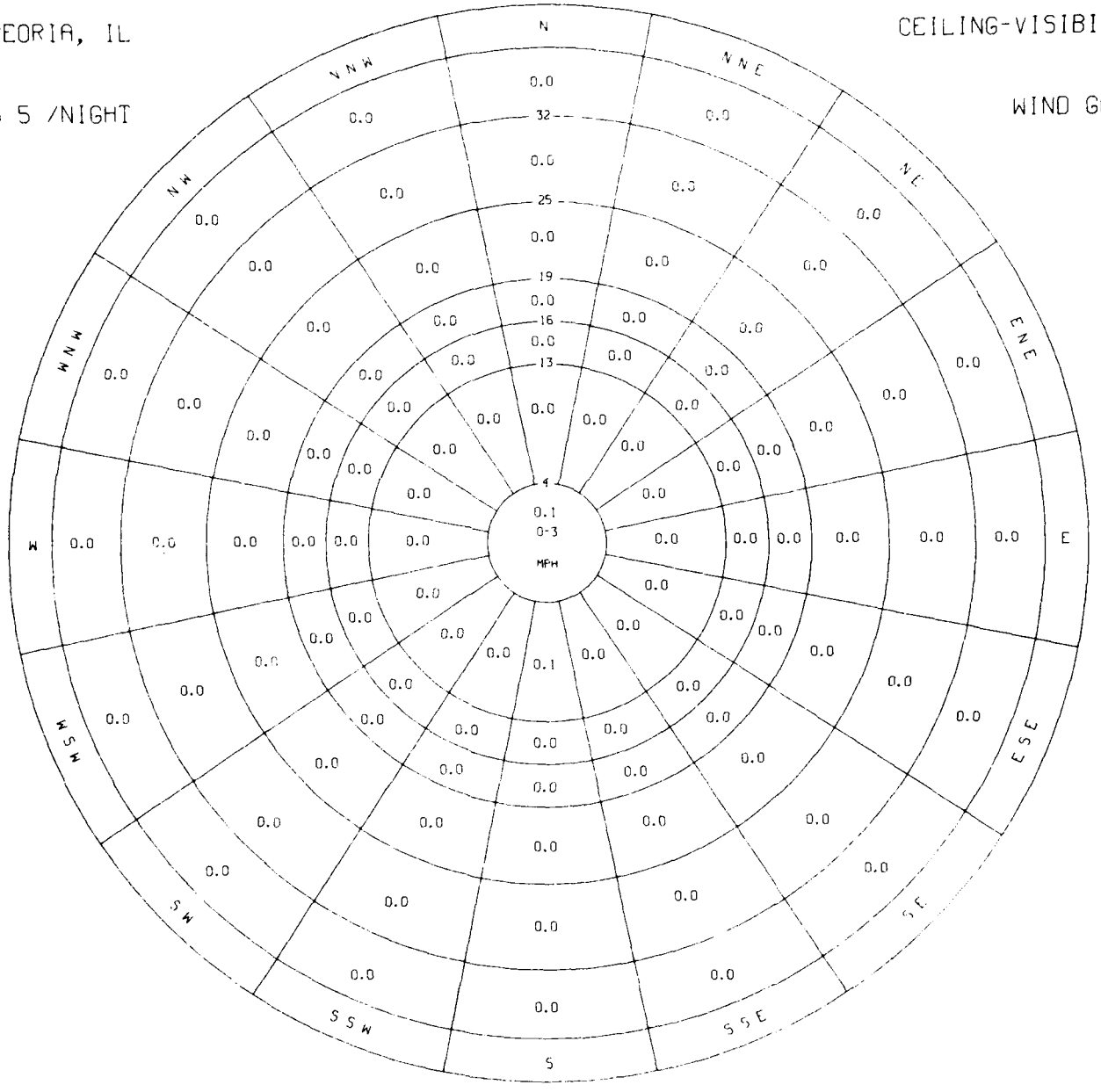
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.2	.0	3.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	8.1
NNE	.0	.6	.0	4.7	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	7.0	10.3
NE	.0	.6	.0	5.2	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	7.6	11.2
ENE	.0	1.2	.0	8.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.5	8.5
E	.0	.6	.0	6.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	8.5
ESE	.0	.0	.0	2.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	2.9	9.6
SE	.0	.0	.0	5.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	9.8
SSE	.0	.0	.0	7.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	8.0
S	.0	2.3	.0	11.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	16.3	8.6
SSW	.0	.6	.0	3.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	7.1
SW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.3
WSW	.0	.6	.0	1.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	8.2
W	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	8.3
WNW	.0	.6	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.5
NW	.0	.0	.0	2.3	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	10.0
NNW	.0	1.2	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	5.6
CALM	.0	4.1													.0	4.1	
TOTAL	.1	14.0	.3	70.9	.0	11.6	.0	2.3	.0	.6	.0	.6	.0	.0	.4	100	8.3

PIA PEORIA, IL

CEILING-VISIBILITY

CLASS 5 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS F / NIGHT

STATION NUMBER: 14842

NO. OBS.: 230

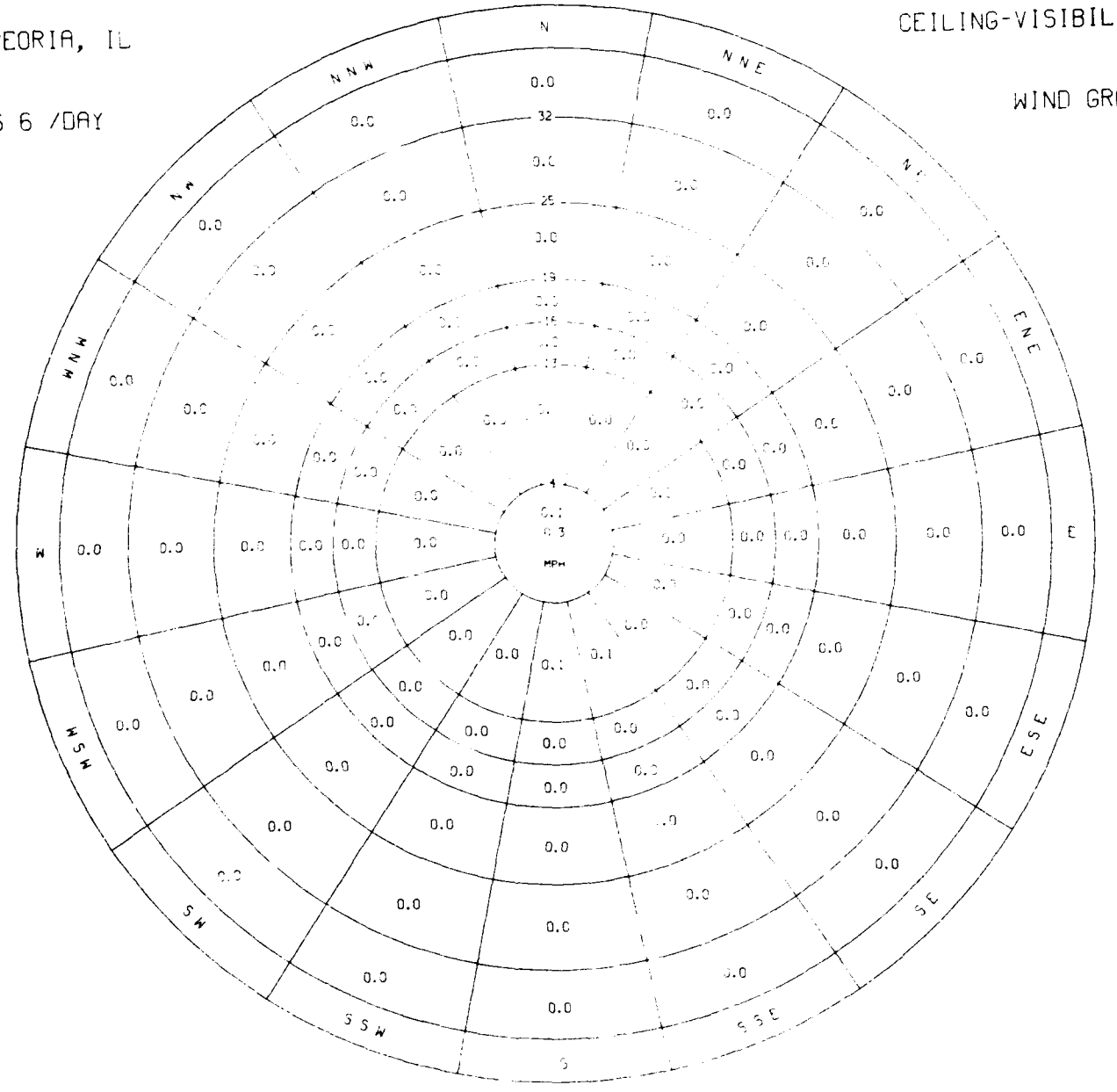
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.0	5.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	8.4
NNE	.0	.9	.0	4.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	7.8
NE	.0	.4	.0	3.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.9
ENE	.0	2.2	.0	6.1	.0	2.6	.0	.0	.0	.9	.0	.0	.0	.0	.1	11.7	9.2
E	.0	.4	.0	4.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	8.7
ESE	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	6.5
SE	.0	.0	.0	5.7	.0	1.7	.0	.4	.0	.0	.0	.0	.0	.0	.1	7.8	9.5
SSE	.0	.0	.0	6.5	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.1	9.1	11.1
S	.0	1.3	.1	10.9	.0	1.7	.0	.9	.0	.9	.0	.0	.0	.0	.1	15.7	9.9
SSW	.0	.9	.0	2.6	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.2	8.8
SW	.0	.0	.0	3.9	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	9.1
WSW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.1
W	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	7.3
WNW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	7.1
NW	.0	1.7	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	5.4
NNW	.0	.4	.0	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	7.6
CALM	.0	5.2													.0	5.2	
TOTAL	.1	15.7	.4	66.1	.1	13.9	.0	2.6	.0	1.7	.0	.0	.0	.0	.7	100	8.3

PIA PEORIA, IL

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 14842

NO. OBS.: 201

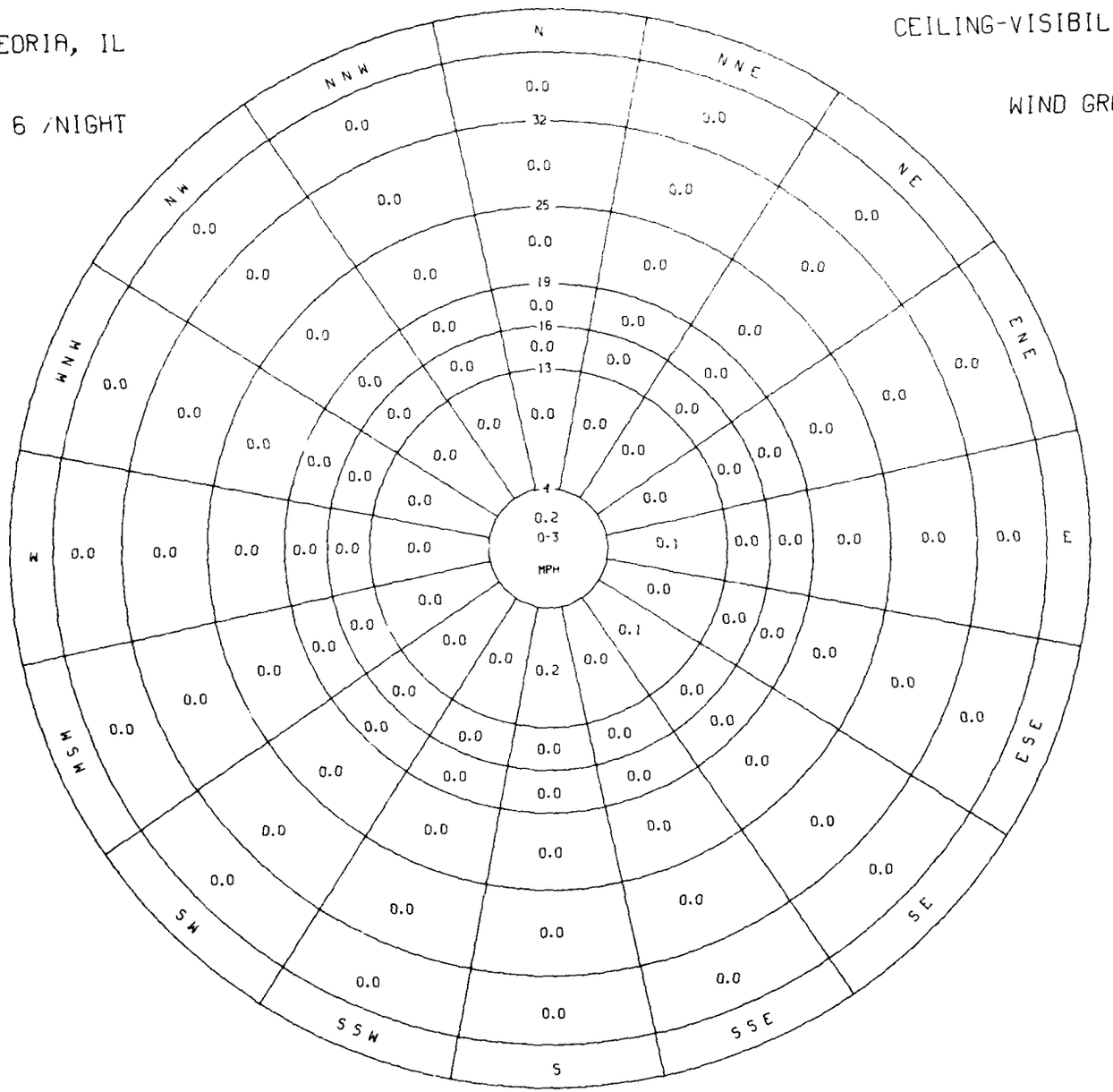
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.5	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	6.2
NNE	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.2
NE	.0	1.0	.0	3.5	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.9
ENE	.0	1.5	.0	6.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	8.0	6.7
E	.0	.5	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.3
ESE	.0	1.5	.0	1.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.5	6.3
SE	.0	1.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.5
SSE	.0	.0	.1	10.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.9	7.1
S	.0	4.0	.1	18.9	.0	2.0	.0	.5	.0	.0	.0	.0	.0	.0	.1	25.4	7.7
SSW	.0	2.0	.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5	6.9
SW	.0	1.5	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	4.5
WSW	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	5.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	6.3
NW	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	8.0
NNW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	6.0
CALM	.0	5.5													.0	5.5	
TOTAL	.1	20.4	.4	74.6	.0	3.5	.0	1.5	.0	.0	.0	.0	.0	.0	.5	100	6.6

PIA PEORIA, IL

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: PIA PEORIA, IL

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14842

NO. OBS.: 320

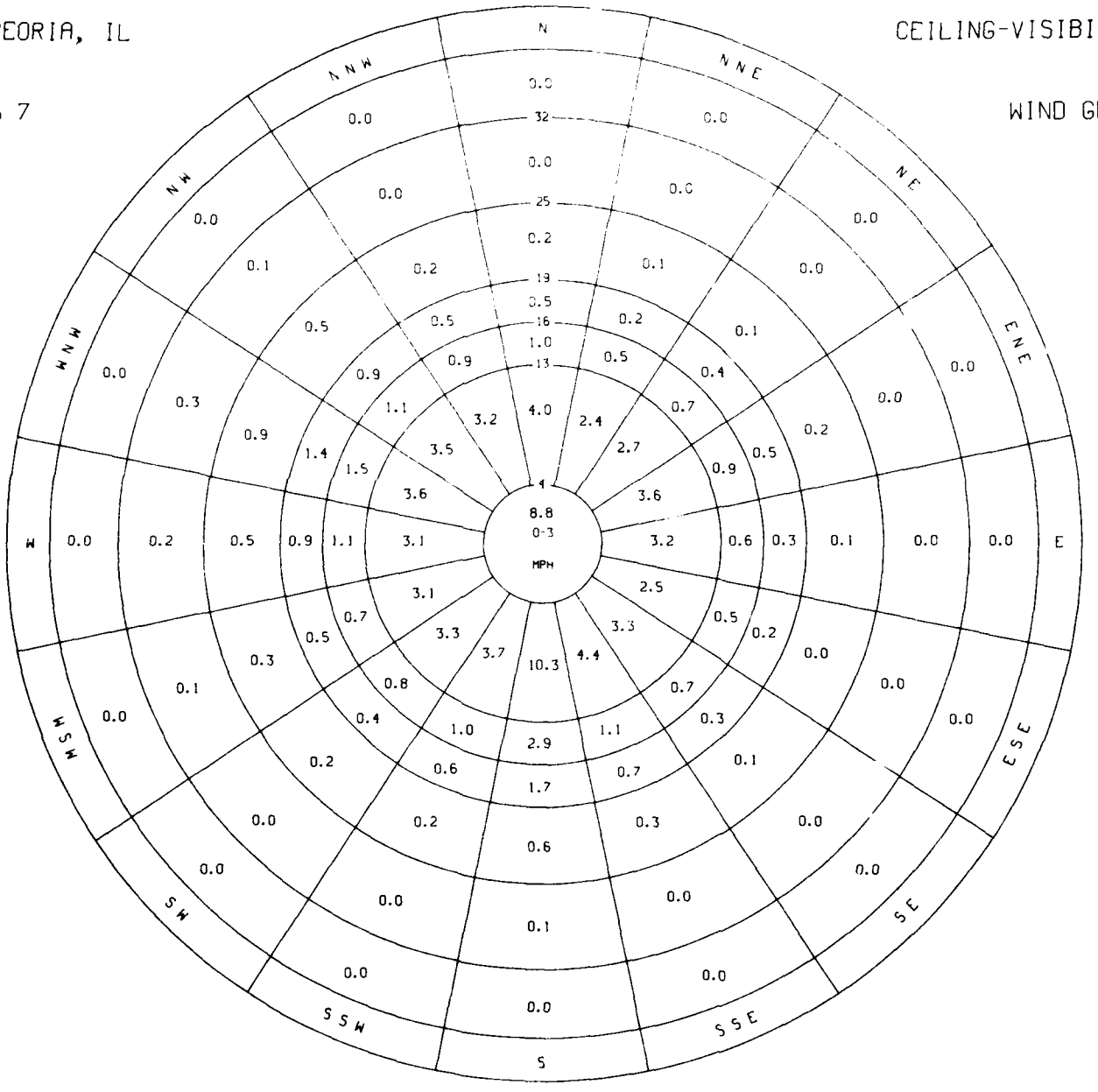
DIR	SPEED GROUPS (MPH)																TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.4
NNE	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	5.4
NE	.0	.3	.0	1.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	8.0
ENE	.0	2.5	.0	5.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.4	7.4
E	.0	.6	.1	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.3	7.1
ESE	.0	.6	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	6.8
SE	.0	.0	.1	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.6	8.0
SSE	.0	.9	.0	5.3	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.1	9.4
S	.0	1.2	.2	18.4	.0	2.5	.0	.3	.0	.0	.0	.0	.0	.0	.2	22.5	8.4
SSW	.0	.3	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	6.9
SW	.0	1.9	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.1
WSW	.0	.6	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	6.9
W	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.3	.0	.0	.0	2.8	7.5
WNW	.0	1.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	6.2
NW	.0	.3	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.7
NNW	.0	1.6	.0	1.6	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	6.2
CALM	.1	9.4													.1	9.4	
TOTAL	.2	23.4	.6	70.3	.1	5.6	.0	.3	.0	.0	.0	.3	.0	.0	.9	100	6.7

PIA PEORIA, IL

CEILING-VISIBILITY

CLASS 7

WIND GRAPH


N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0.0
32
0.0
25
0.2
19
0.5
16
1.0
13
4.0
4
8.8
0-3
MPH
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
0.0 0.0 0.1 0.2 0.5 0.9 1.4 3.6
0.0 0.0 0.0 0.1 0.2 0.5 0.9 3.1
0.0 0.0 0.0 0.0 0.1 0.3 0.5 0.7 3.3
0.0 0.0 0.0 0.0 0.0 0.2 0.4 0.6 1.0 2.9
0.0 0.0 0.0 0.0 0.0 0.1 0.2 0.6 1.7
0.0 0.0 0.0 0.0 0.0 0.0 0.1 0.6
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0.0 0.0 0.1 0.2 0.5 0.9 1.1 3.2
0.0 0.0 0.0 0.1 0.2 0.5 0.9 3.5
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0.0 0.0 0.0 0.0 0.0 0.2 0.4 0.8 1.0 3.7
0.0 0.0 0.0 0.0 0.0 0.0 0.2 0.6 2.9 10.3
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0.0 0.0 0.0 0.0 0.1 0.3 0.5 0.7 3.3 0.7 0.3 0.0 0.0
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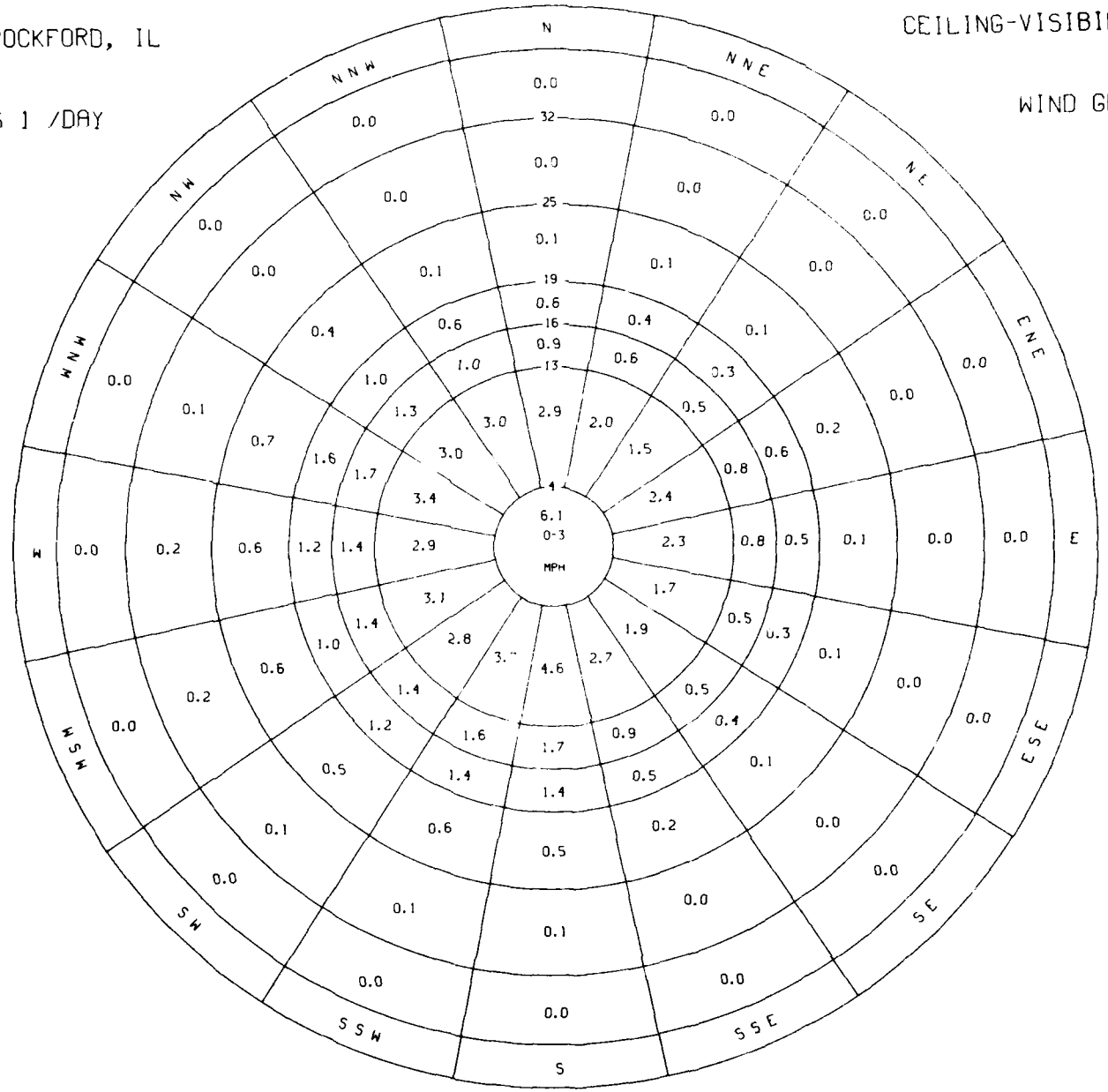
RFD ROCKFORD, IL

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH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ESE
SE
SSE
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SSW
SW
WSW
W
WNW
NW
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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 1 / DAY

STATION NUMBER: 94822

NO. OBS.: 30688

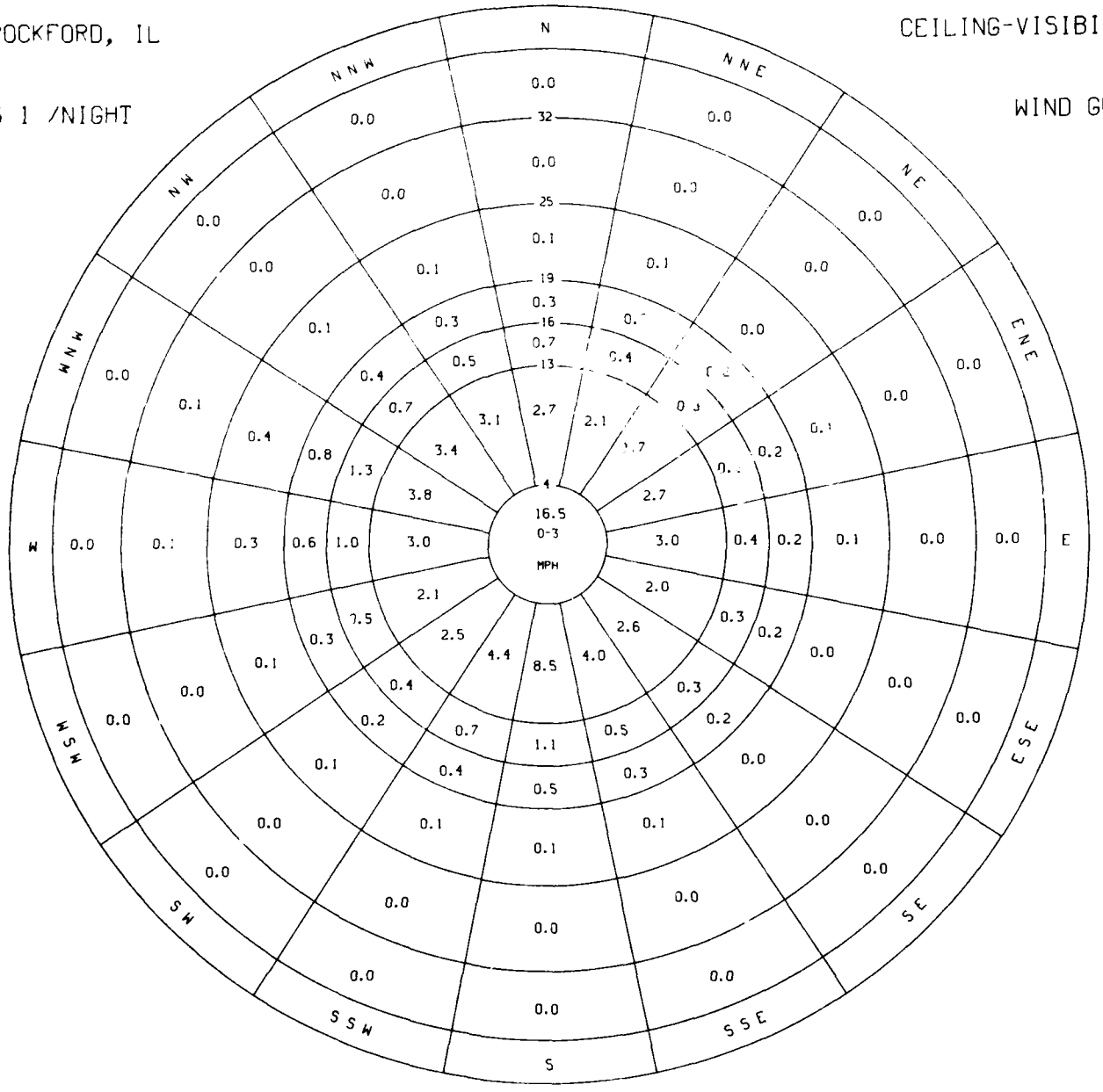
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.3	2.9	3.4	.9	1.1	.6	.7	.1	.1	.0	.0	.0	.0	4.8	5.6	10.6
NNE	.2	.2	2.0	2.3	.6	.7	.4	.4	.1	.1	.0	.0	.0	.0	3.3	3.8	10.6
NE	.2	.2	1.5	1.7	.5	.5	.3	.3	.1	.1	.0	.0	.0	.0	2.6	3.0	10.7
ENE	.2	.3	2.4	2.8	.8	1.0	.6	.7	.2	.3	.0	.0	.0	.0	4.4	5.1	11.3
E	.2	.3	2.3	2.7	.8	.9	.5	.5	.1	.1	.0	.0	.0	.0	4.0	4.6	10.8
ESE	.2	.3	1.7	2.0	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	2.8	3.3	10.4
SE	.2	.2	1.9	2.2	.5	.6	.4	.4	.1	.1	.0	.0	.0	.0	3.0	3.5	10.3
SSE	.4	.4	2.7	3.1	.9	1.0	.5	.6	.2	.3	.0	.0	.0	.0	4.7	5.5	10.5
S	.5	.6	4.6	5.4	1.7	2.0	1.4	1.7	.5	.6	.1	.1	.0	.0	8.8	10.3	11.2
SSW	.3	.4	3.7	4.3	1.6	1.8	1.4	1.7	.6	.7	.1	.1	.0	.0	7.7	9.0	12.3
SW	.2	.3	2.8	3.3	1.4	1.6	1.2	1.4	.5	.5	.1	.2	.0	.0	6.3	7.3	12.6
WSW	.2	.3	3.1	3.6	1.4	1.6	1.0	1.2	.6	.6	.2	.2	.0	.0	6.4	7.5	12.7
W	.2	.3	2.9	3.4	1.4	1.6	1.2	1.4	.6	.7	.2	.2	.0	.0	6.6	7.7	13.0
WNW	.2	.2	3.4	3.9	1.7	1.9	1.6	1.8	.7	.8	.1	.1	.0	.0	7.6	8.8	12.9
NW	.3	.3	3.0	3.5	1.3	1.5	1.0	1.1	.4	.4	.0	.0	.0	.0	5.9	6.9	11.7
NNW	.2	.3	3.0	3.5	1.0	1.2	.6	.7	.1	.1	.0	.0	.0	.0	5.0	5.8	10.8
CALM	1.9	2.2													1.9	2.2	
TOTAL	6.1	7.1	43.9	51.2	16.9	19.6	13.0	15.2	5.0	5.8	.9	1.1	.1	.1	85.9	100	11.4

RFD ROCKFORD, IL

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH


N
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ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
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13
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0.2
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0.0
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4.4
4.0
8.5
1.1
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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 1 / NIGHT

STATION NUMBER: 94822

NO. OBS.: 26789

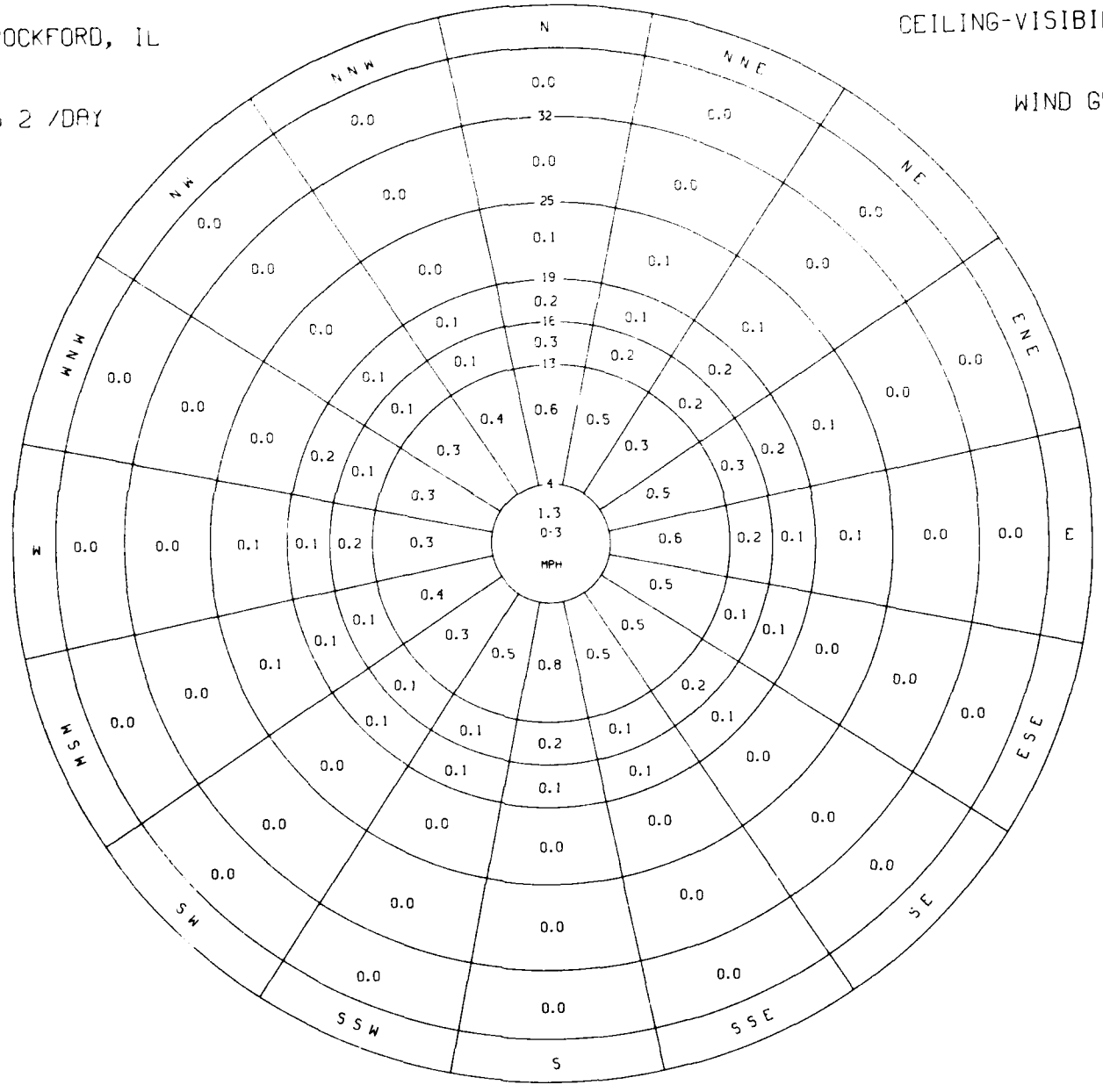
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.4	.5	2.7	3.2	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	4.1	4.9	9.4
NNE	.3	.4	2.1	2.5	.4	.4	.2	.3	.1	.1	.0	.0	.0	.0	3.1	3.6	9.3
NE	.3	.3	1.7	1.9	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	2.4	2.8	8.8
ENE	.6	.7	2.7	3.1	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	4.0	4.7	8.8
E	.7	.8	3.0	3.5	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.4	5.1	8.2
ESE	.6	.8	2.0	2.3	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.1	3.7	8.0
SE	.6	.7	2.6	3.0	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	3.8	4.4	8.0
SSE	1.2	1.4	4.0	4.7	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	6.1	7.2	7.7
S	1.9	2.2	8.5	9.9	1.1	1.2	.5	.6	.1	.2	.0	.0	.0	.0	12.1	14.2	7.8
SSW	1.0	1.2	4.4	5.2	.7	.8	.4	.5	.1	.1	.0	.0	.0	.0	6.7	7.8	8.5
SW	.6	.7	2.5	3.0	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.8	4.5	8.5
WSW	.4	.5	2.1	2.4	.5	.6	.3	.4	.1	.2	.0	.1	.0	.0	3.6	4.2	10.1
W	.4	.5	3.0	3.6	1.0	1.1	.6	.7	.3	.4	.1	.1	.0	.0	5.4	6.4	11.1
WNW	.3	.4	3.8	4.5	1.3	1.6	.8	1.0	.4	.4	.1	.1	.0	.0	6.8	8.0	11.2
NW	.4	.5	3.4	4.0	.7	.8	.4	.5	.1	.1	.0	.0	.0	.0	5.0	5.9	9.5
NNW	.5	.5	3.1	3.6	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	4.5	5.2	8.9
CALM	6.3	7.4													6.3	7.4	
TOTAL	16.5	19.3	51.6	60.6	9.5	11.2	5.3	6.2	1.8	2.2	.4	.4	.1	.1	85.2	100	8.3

RFD ROCKFORD, IL

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 2 / DAY

STATION NUMBER: 94822

NO. OBS.: 5055

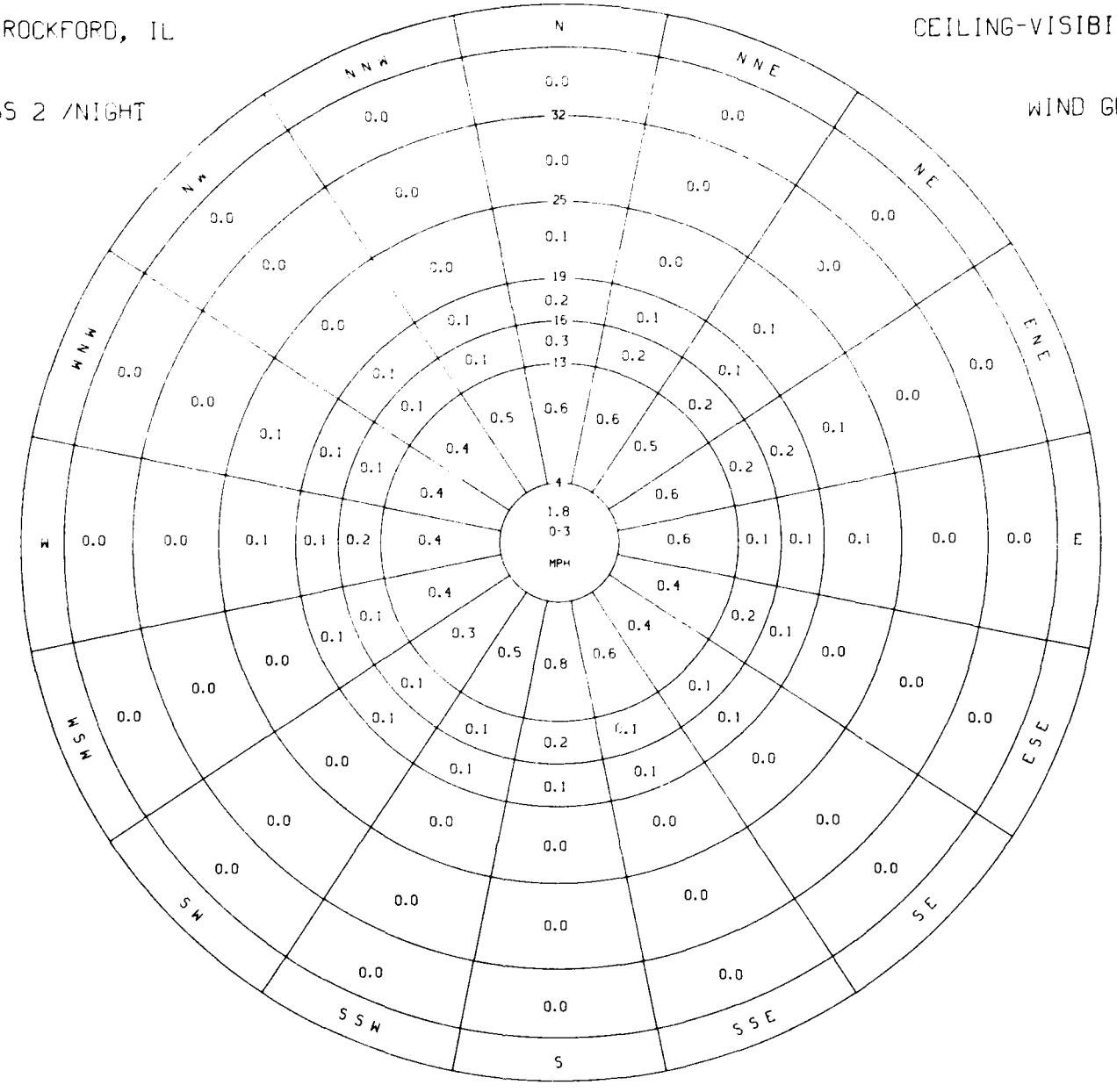
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.6	4.0	.3	2.0	.2	1.3	.1	.5	.0	.0	.0	.0	1.2	8.2	11.8
NNE	.0	.3	.5	3.5	.2	1.4	.1	.8	.1	.4	.0	.0	.0	.0	.9	6.5	11.7
NE	.0	.3	.3	2.3	.2	1.1	.2	1.2	.1	.4	.0	.0	.0	.0	.7	5.3	12.4
ENE	.0	.3	.5	3.8	.3	2.1	.2	1.4	.1	.8	.0	.3	.0	.0	1.2	8.7	12.9
E	.1	.4	.6	4.2	.2	1.3	.1	1.0	.1	.4	.0	.1	.0	.0	1.1	7.5	11.1
ESE	.1	.4	.5	3.4	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.8	5.6	10.8
SE	.1	.4	.5	3.6	.2	1.1	.1	.7	.0	.2	.0	.0	.0	.0	.8	6.0	10.2
SSE	.1	.4	.5	3.7	.1	1.0	.1	.8	.0	.3	.0	.0	.0	.0	.9	6.3	10.7
S	.1	.8	.8	5.8	.2	.7	.1	.9	.0	.3	.0	.0	.0	.0	1.3	9.5	9.9
SSW	.1	.4	.5	3.4	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.8	5.5	10.5
SW	.0	.3	.3	2.2	.1	.6	.1	.6	.0	.2	.0	.1	.0	.0	.6	4.0	11.3
WSW	.0	.3	.4	2.7	.1	.9	.1	.7	.1	.6	.0	.1	.0	.0	.8	5.3	12.1
W	.0	.2	.3	1.8	.2	1.2	.1	.7	.1	.5	.0	.0	.0	.0	.6	4.4	12.5
WNW	.0	.3	.3	2.2	.1	.9	.2	1.1	.0	.3	.0	.1	.0	.0	.7	4.9	12.5
NW	.0	.3	.3	2.1	.1	.7	.1	.7	.0	.2	.0	.1	.0	.0	.6	4.0	11.2
NNW	.1	.4	.4	2.8	.1	.9	.1	.5	.0	.2	.0	.0	.0	.0	.7	4.7	10.5
CALM	.5	3.7													.5	3.7	
TOTAL	1.3	9.5	7.3	51.6	2.6	18.4	1.9	13.7	.8	5.6	.1	1.0	.0	.1	14.1	100	10.9

RFD ROCKFORD, IL

CEILING-VISIBILITY

CLASS 2 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 2 / NIGHT

STATION NUMBER: 94822

NO. OBS.: 4647

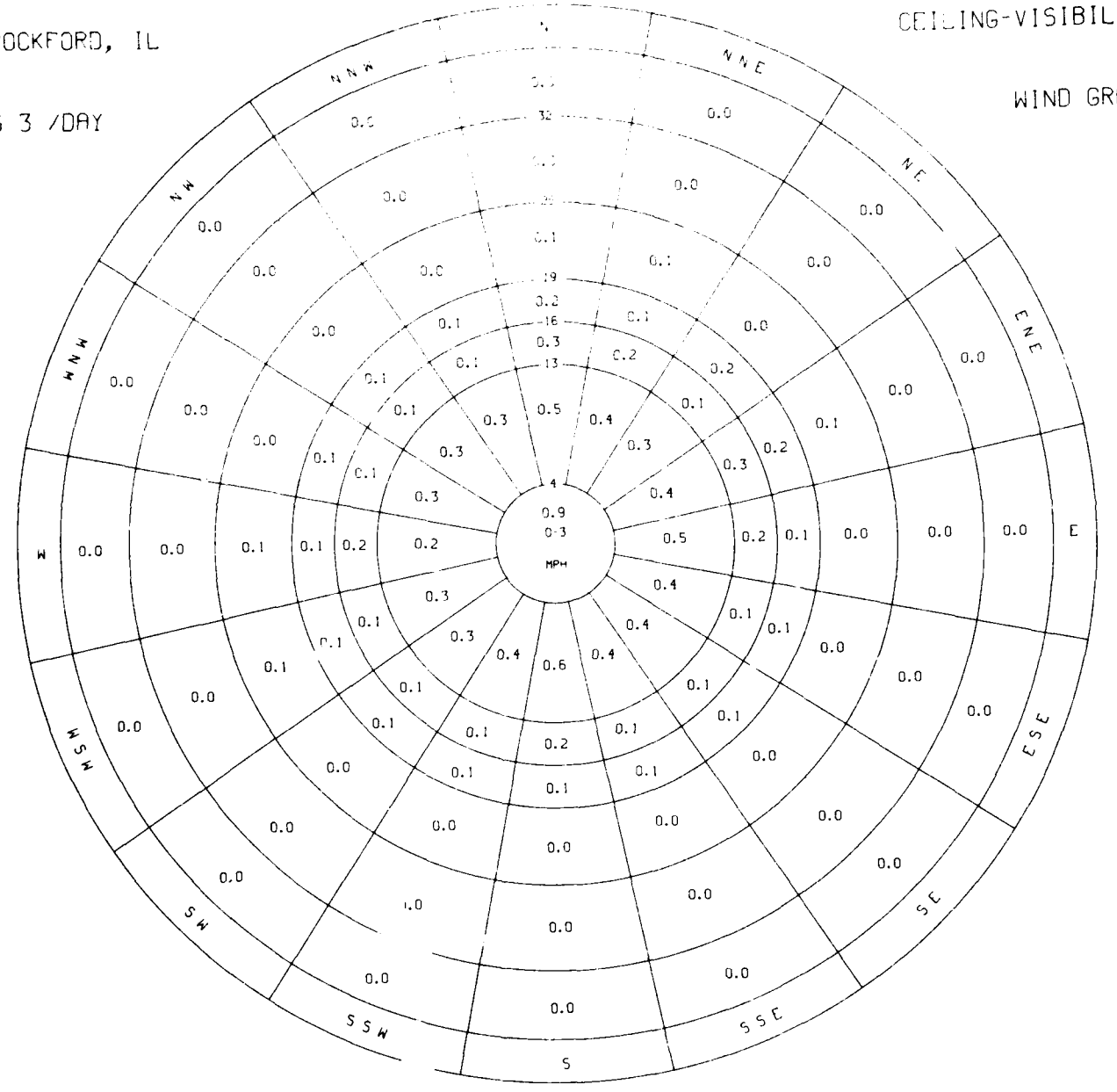
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.6	3.9	.3	2.0	.2	1.5	.1	.4	.0	.0	.0	.0	1.2	8.2	11.9
NNE	.0	.3	.6	3.8	.2	1.4	.1	.9	.0	.3	.0	.1	.0	.0	1.0	6.8	11.4
NE	.0	.2	.5	3.1	.2	1.2	.1	.7	.1	.5	.0	.2	.0	.0	.9	5.9	12.1
ENE	.1	.6	.6	4.2	.2	1.6	.2	1.4	.1	.8	.0	.2	.0	.0	1.3	8.9	12.0
E	.1	.4	.6	4.4	.1	1.0	.1	.7	.1	.3	.0	.0	.0	.0	1.0	6.9	10.2
ESE	.1	.5	.4	3.0	.2	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.8	5.3	10.2
SE	.1	.4	.4	2.9	.1	.8	.1	.6	.0	.3	.0	.0	.0	.0	.7	4.8	10.3
SSE	.1	.8	.6	3.7	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.9	6.3	9.6
S	.1	.8	.8	5.5	.2	1.5	.1	.7	.0	.1	.0	.1	.0	.0	1.3	8.8	9.7
SSW	.1	.5	.5	3.3	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.8	5.3	9.6
SW	.0	.3	.3	2.3	.1	.5	.1	.3	.0	.2	.0	.0	.0	.0	.5	3.6	10.3
WSW	.0	.3	.4	2.5	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.7	4.6	11.2
W	.0	.3	.4	2.5	.2	1.0	.1	.6	.1	.5	.0	.1	.0	.0	.7	4.9	11.9
WNW	.0	.2	.4	2.5	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.7	4.9	12.0
NW	.0	.2	.4	2.7	.1	.7	.1	.5	.0	.3	.0	.0	.0	.0	.6	4.3	10.7
NNW	.0	.3	.5	3.5	.1	.9	.1	.4	.0	.1	.0	.1	.0	.0	.8	5.3	10.0
CALM	.8	5.3													.8	5.3	
TOTAL	1.8	11.9	7.9	53.8	2.5	17.2	1.6	11.1	.7	4.8	.2	1.2	.0	.0	14.8	100	10.3

RFD ROCKFORD, IL

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 3 / 3A

STATION NUMBER: 94822

NO. OBS.: 4181

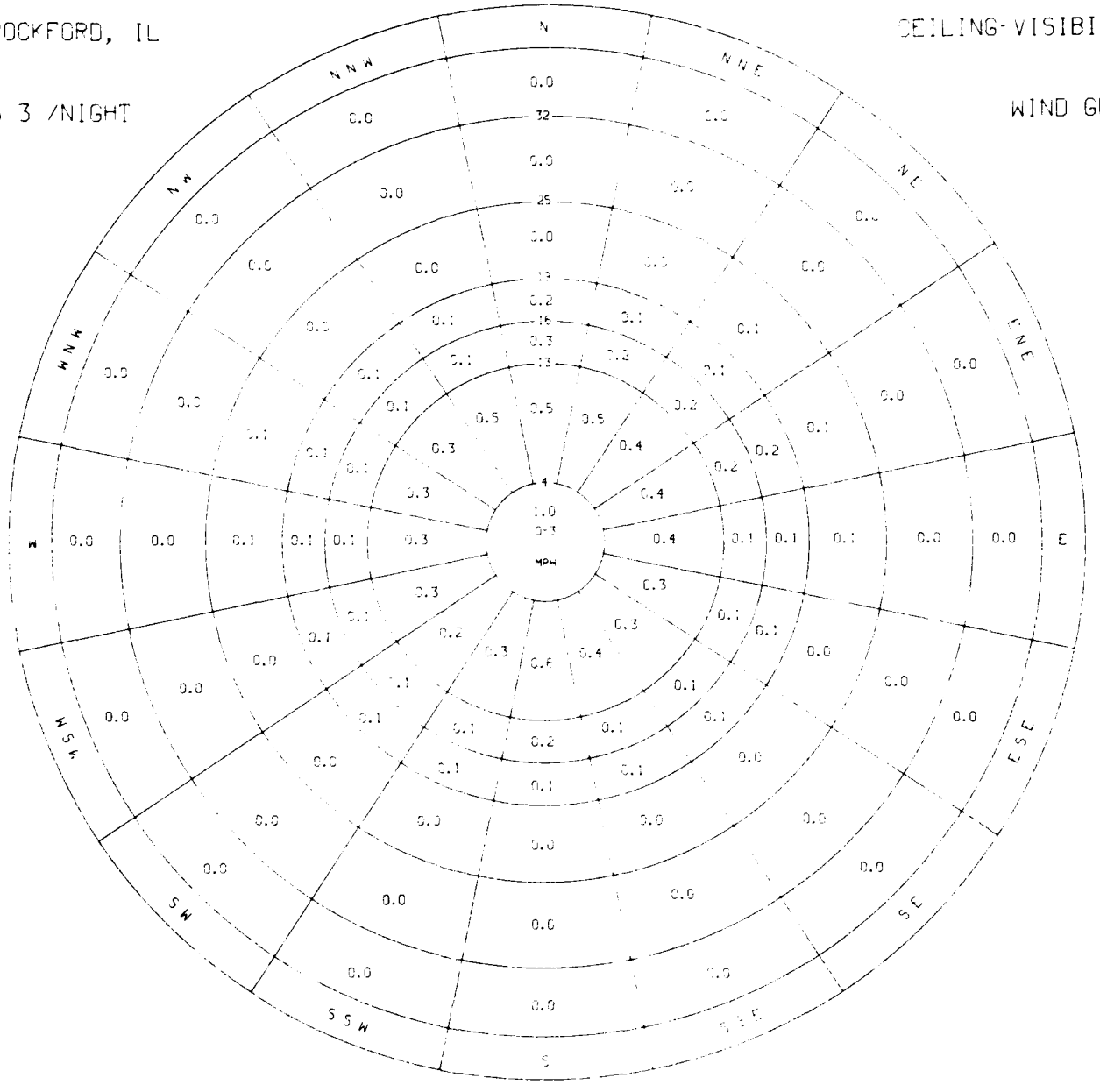
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.5	4.3	.3	2.2	.2	1.4	.1	.4	.0	.0	.0	.0	1.0	8.6	11.8
NNE	.0	.2	.4	3.6	.2	1.6	.1	.8	.1	.4	.0	.0	.0	.0	.8	6.7	11.9
NE	.0	.2	.3	2.3	.1	1.1	.2	1.3	.0	.3	.0	.0	.0	.0	.6	5.4	12.5
ENE	.0	.1	.4	3.7	.3	2.2	.2	1.6	.1	.9	.0	.3	.0	.0	1.0	8.8	13.3
E	.0	.3	.5	4.0	.2	1.3	.1	1.1	.0	.4	.0	.1	.0	.0	.8	7.2	11.4
ESE	.0	.4	.4	3.3	.1	.7	.1	.8	.0	.3	.0	.1	.0	.0	.6	5.5	11.2
SE	.0	.4	.4	3.3	.1	1.1	.1	.7	.0	.1	.0	.0	.0	.0	.7	5.8	10.4
SSE	.0	.3	.4	3.3	.1	1.1	.1	.8	.0	.3	.0	.0	.0	.0	.7	5.9	11.1
S	.1	.7	.6	5.1	.2	1.7	.1	.9	.0	.3	.0	.0	.0	.0	1.0	8.8	10.3
SSW	.0	.4	.4	3.2	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.6	5.3	10.9
SW	.0	.2	.3	2.2	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.5	4.2	12.0
WSW	.0	.2	.3	2.8	.1	1.0	.1	.8	.1	.7	.0	.1	.0	.0	.7	5.7	12.7
W	.0	.2	.2	1.8	.2	1.4	.1	.7	.1	.5	.0	.0	.0	.0	.6	4.8	12.9
WNW	.0	.2	.3	2.5	.1	1.1	.1	1.2	.0	.3	.0	.0	.0	.0	.6	5.3	12.4
NW	.0	.3	.3	2.2	.1	.8	.1	.9	.0	.1	.0	.0	.0	.0	.5	4.3	11.5
NNW	.0	.3	.3	2.8	.1	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.6	4.9	10.9
CALM	.3	2.8													.3	2.8	
TOTAL	.9	7.5	5.9	50.5	2.3	19.9	1.7	14.9	.7	6.0	.1	1.0	.0	.1	11.7	100	11.4

RFD ROCKFORD, IL

CEILING-VISIBILITY

CLASS 3 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 3 / NIGHT

STATION NUMBER: 94822

NO. OBS.: 3667

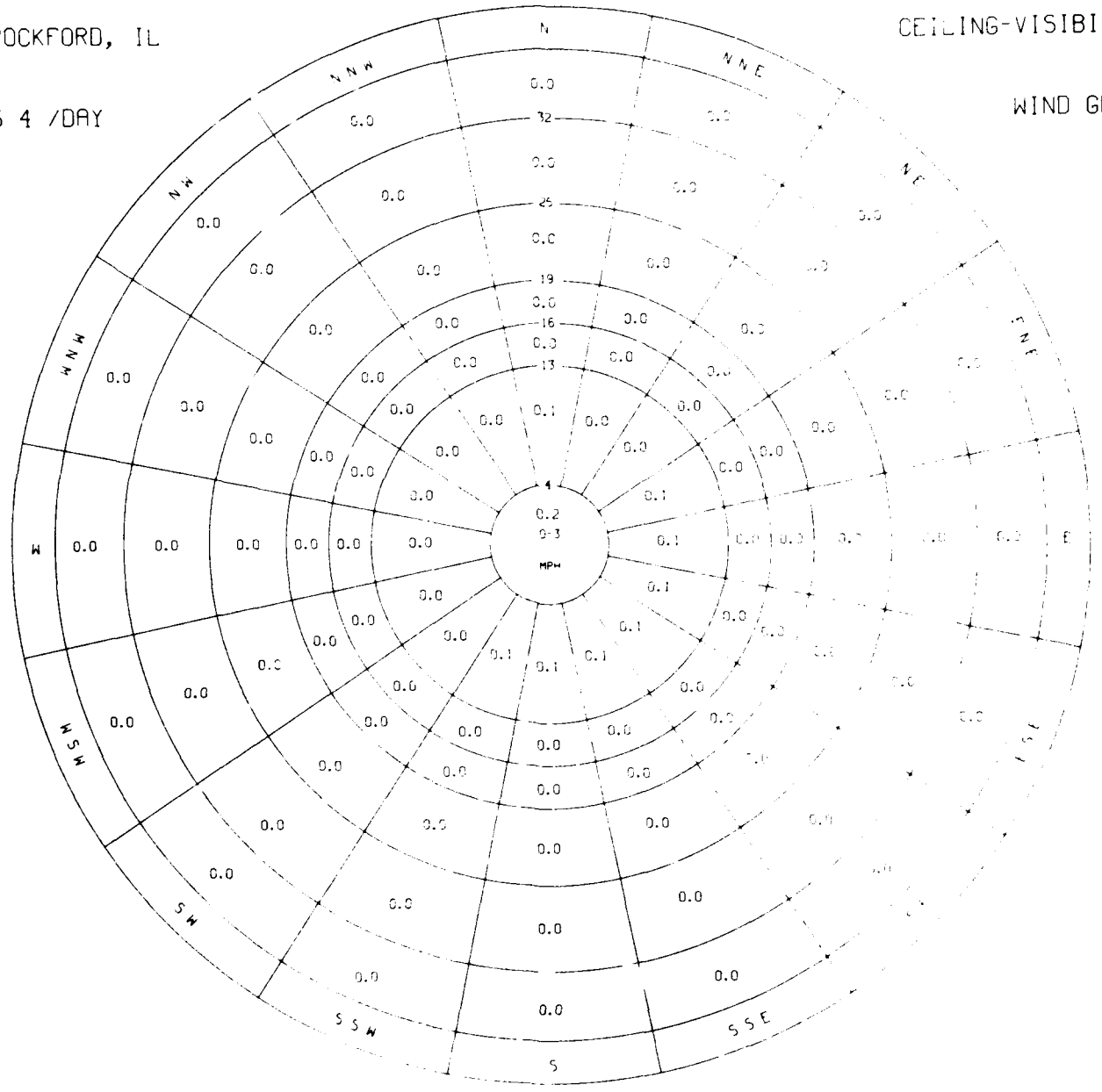
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.5	4.1	.3	2.2	.2	1.8	.0	.4	.0	.0	.0	.0	1.0	8.9	12.0
NNE	.0	.2	.5	4.0	.2	1.7	.1	1.1	.0	.4	.0	.1	.0	.0	.9	7.4	11.8
NE	.0	.2	.4	3.3	.2	1.5	.1	.8	.1	.6	.0	.2	.0	.0	.8	6.5	12.6
ENE	.1	.5	.4	3.7	.2	1.9	.2	1.6	.1	.9	.0	.3	.0	.0	1.0	8.9	12.8
E	.0	.3	.4	3.8	.1	1.1	.1	.8	.1	.4	.0	.0	.0	.0	.7	6.4	10.9
ESE	.0	.4	.3	2.8	.1	1.1	.1	.4	.0	.2	.0	.0	.0	.0	.6	4.9	10.4
SE	.0	.2	.3	2.6	.1	.7	.1	.6	.0	.3	.0	.0	.0	.0	.5	4.4	10.9
SSE	.1	.8	.4	3.2	.1	.8	.1	.6	.0	.3	.0	.0	.0	.0	.7	5.6	10.0
S	.1	.5	.6	4.8	.2	1.6	.1	.7	.0	.1	.0	.1	.0	.0	.9	7.9	10.2
SSW	.0	.4	.3	2.8	.1	.9	.1	.5	.0	.1	.0	.1	.0	.0	.6	4.8	10.3
SW	.0	.3	.2	2.1	.1	.5	.1	.4	.0	.2	.0	.0	.0	.0	.4	3.6	10.8
WSW	.0	.2	.3	2.8	.1	1.1	.1	.7	.0	.3	.0	.1	.0	.0	.6	5.2	11.6
W	.0	.2	.3	2.7	.1	1.3	.1	.7	.1	.6	.0	.1	.0	.0	.7	5.6	12.4
WNW	.0	.1	.3	2.7	.1	1.1	.1	.9	.1	.5	.0	.1	.0	.0	.6	5.4	12.6
NW	.0	.2	.3	2.9	.1	.8	.1	.6	.0	.3	.0	.1	.0	.0	.6	4.7	11.0
NNW	.0	.4	.5	4.0	.1	1.1	.1	.5	.0	.1	.0	.1	.0	.0	.7	6.2	10.1
CALM	.4	3.4													.4	3.4	
TOTAL	1.0	8.6	6.1	52.3	2.2	19.3	1.5	12.8	.6	5.6	.2	1.3	.0	.1	11.7	100	11.0

RFD ROCKFORD, IL

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 4 / DAY

STATION NUMBER: 94822

NO. OBS.: 555

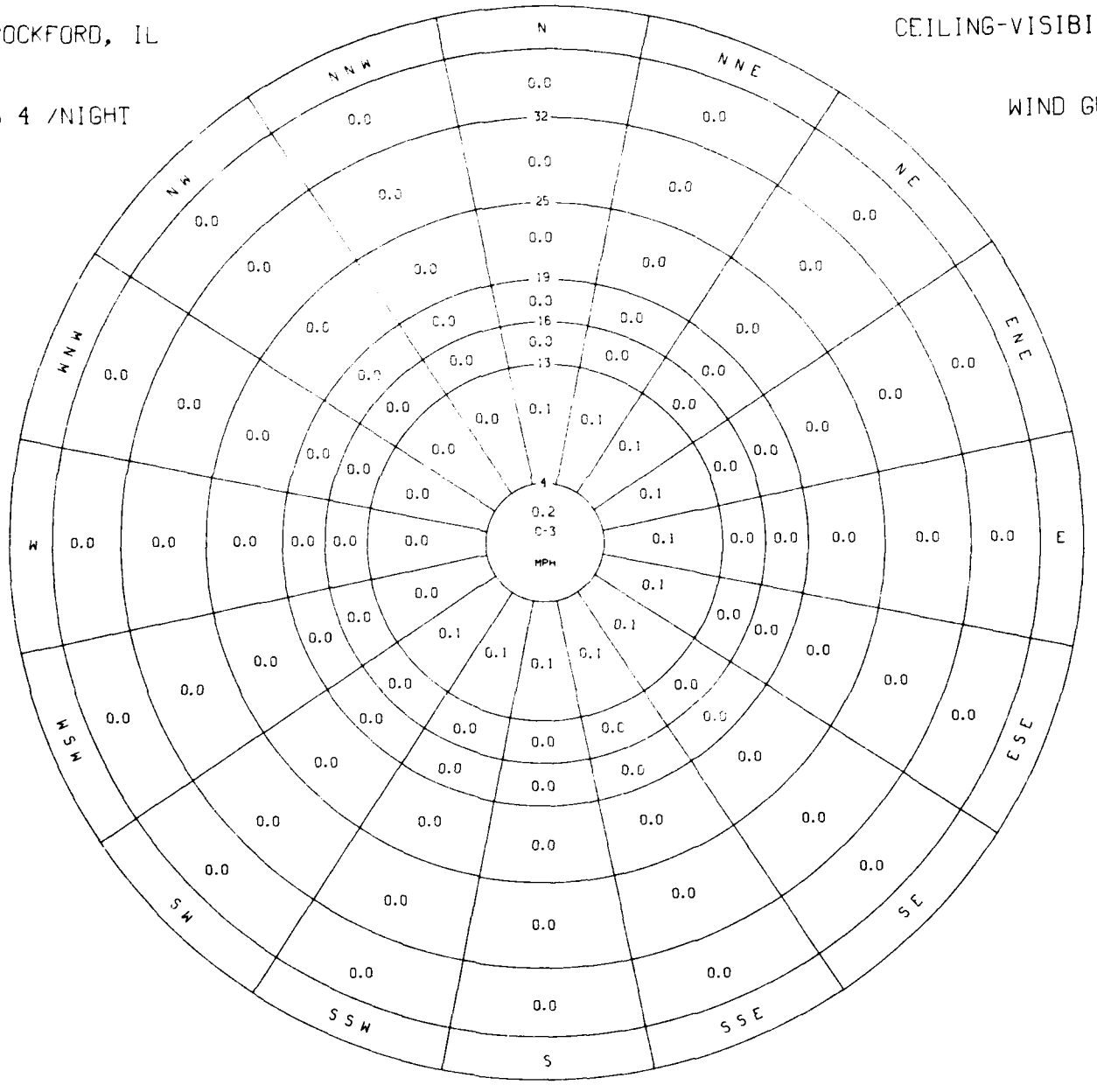
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.1	.1	3.2	.0	1.6	.0	1.4	.0	.9	.0	.0	.0	.0	.1	8.3	11.7
NNE	.0	.4	.0	2.7	.0	.7	.0	1.1	.0	.5	.0	.0	.0	.0	.1	5.4	11.5
NE	.0	.2	.0	2.7	.0	1.3	.0	1.3	.0	.2	.0	.0	.0	.0	.1	5.6	12.1
ENE	.0	.5	.1	5.9	.0	2.0	.0	.9	.0	.7	.0	.5	.0	.0	.2	10.6	11.4
E	.0	.9	.1	5.6	.0	1.8	.0	.9	.0	.2	.0	.2	.0	.0	.1	9.5	10.5
ESE	.0	.2	.1	3.8	.0	.9	.0	.2	.0	.2	.0	.2	.0	.0	.1	5.4	10.4
SE	.0	.7	.1	4.0	.0	1.4	.0	.4	.0	.4	.0	.0	.0	.0	.1	6.8	9.8
SSE	.0	.0	.1	6.5	.0	.4	.0	.9	.0	.0	.0	.0	.0	.0	.1	7.7	10.4
S	.0	.9	.1	7.6	.0	1.4	.0	1.6	.0	.0	.0	.0	.0	.0	.2	11.5	9.6
SSW	.0	.4	.1	3.4	.0	.9	.0	.9	.0	.4	.0	.0	.0	.0	.1	5.9	10.4
SW	.0	.2	.0	1.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	7.4
WSW	.0	.5	.0	1.3	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.5	8.6
W	.0	.2	.0	1.6	.0	.4	.0	.5	.0	.2	.0	.0	.0	.0	.0	2.9	10.7
WNW	.0	.5	.0	1.1	.0	.5	.0	.9	.0	.0	.0	.4	.0	.2	.1	3.6	13.9
NW	.0	.2	.0	2.3	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	2.9	8.7
NNW	.0	.0	.0	3.1	.0	.2	.0	.5	.0	.2	.0	.0	.0	.0	.1	4.0	9.6
CALM	.1	5.4													.1	5.4	
TOTAL	.2	12.3	.9	56.2	.2	14.4	.2	11.7	.1	4.0	.0	1.3	.0	.2	1.6	100	10.0

RFD ROCKFORD, IL

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 4 / NIGHT

STATION NUMBER: 94822

NO. OBS.: 546

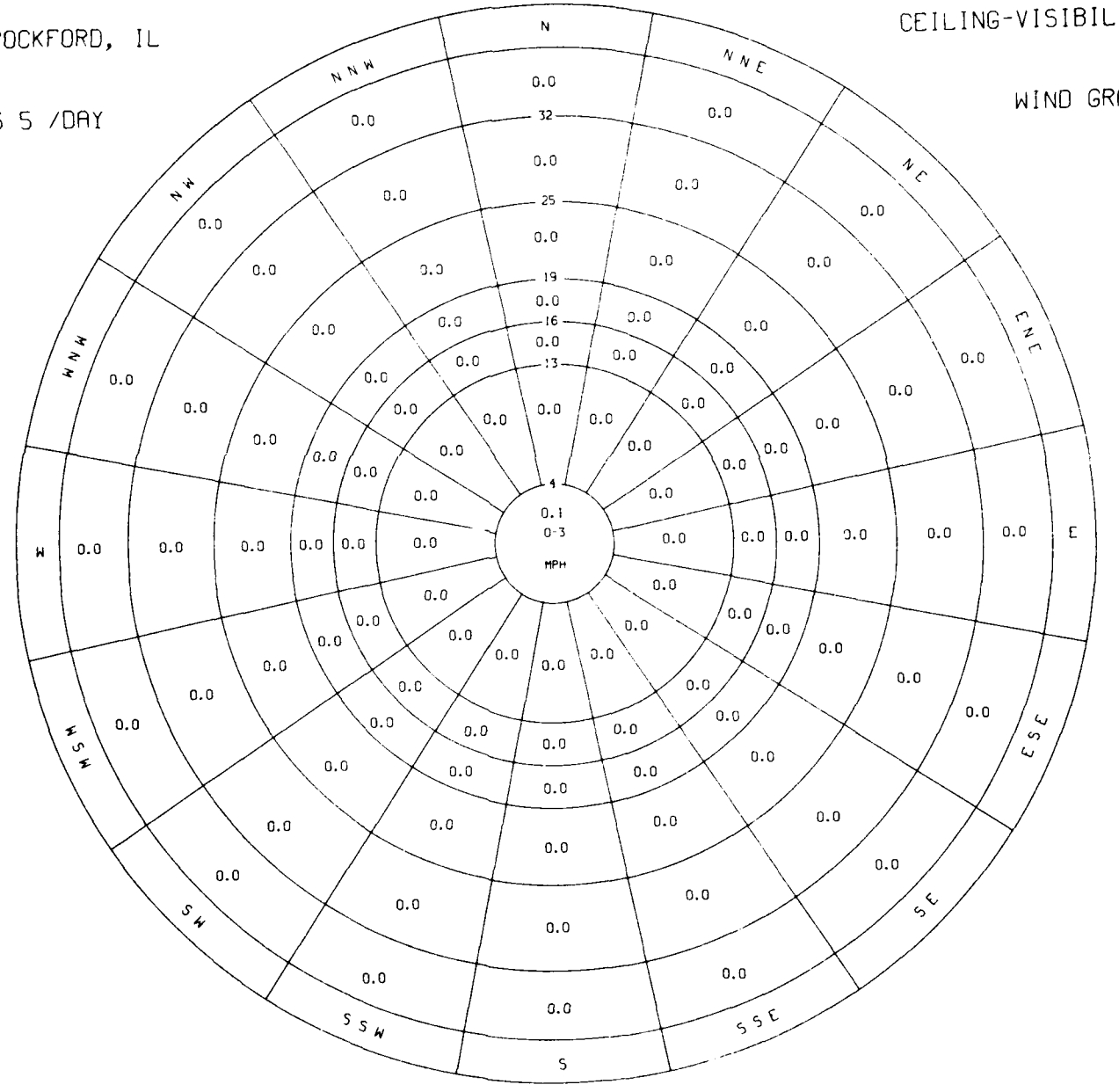
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.1	4.2	.0	1.6	.0	.7	.0	.5	.0	.2	.0	.0	.1	7.9	11.6
NNE	.0	.4	.1	4.6	.0	.5	.0	.7	.0	.2	.0	.2	.0	.0	.1	6.6	9.9
NE	.0	.4	.1	3.8	.0	.4	.0	.0	.0	.2	.0	.0	.0	.0	.1	4.8	8.5
ENE	.0	.9	.1	7.1	.0	.7	.0	.7	.0	.7	.0	.0	.0	.0	.2	10.3	9.9
E	.0	.4	.1	6.2	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.1	8.4	9.5
ESE	.0	.5	.1	5.5	.0	1.5	.0	1.1	.0	.2	.0	.0	.0	.0	.2	8.8	10.4
SE	.0	.7	.1	3.3	.0	1.3	.0	.5	.0	.0	.0	.0	.0	.0	.1	5.9	9.8
SSE	.0	.5	.1	5.1	.0	1.5	.0	1.1	.0	.0	.0	.0	.0	.0	.1	8.2	9.8
S	.0	.7	.1	6.4	.0	2.2	.0	.5	.0	.0	.0	.0	.0	.0	.2	9.9	9.8
SSW	.0	.4	.1	4.8	.0	.7	.0	.5	.0	.0	.0	.0	.0	.0	.1	6.4	8.9
SW	.0	.2	.1	3.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.6	9.1
WSW	.0	.4	.0	1.6	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.6	8.0
W	.0	.2	.0	1.6	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	2.2	8.7
WNW	.0	.4	.0	2.0	.0	.4	.0	.0	.0	.0	.0	.2	.0	.0	.1	2.9	9.1
NW	.0	.0	.0	1.8	.0	.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	2.6	9.4
NNW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.2	.0	.2	.0	.0	.0	1.8	10.9
CALM	.1	6.2													.1	6.2	
TOTAL	.2	12.8	1.1	63.2	.2	13.7	.1	7.1	.0	2.2	.0	.9	.0	.0	1.7	100	9.2

RFD ROCKFORD, IL

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 5 / DAY

STATION NUMBER: 94822

NO. OBS.: 134

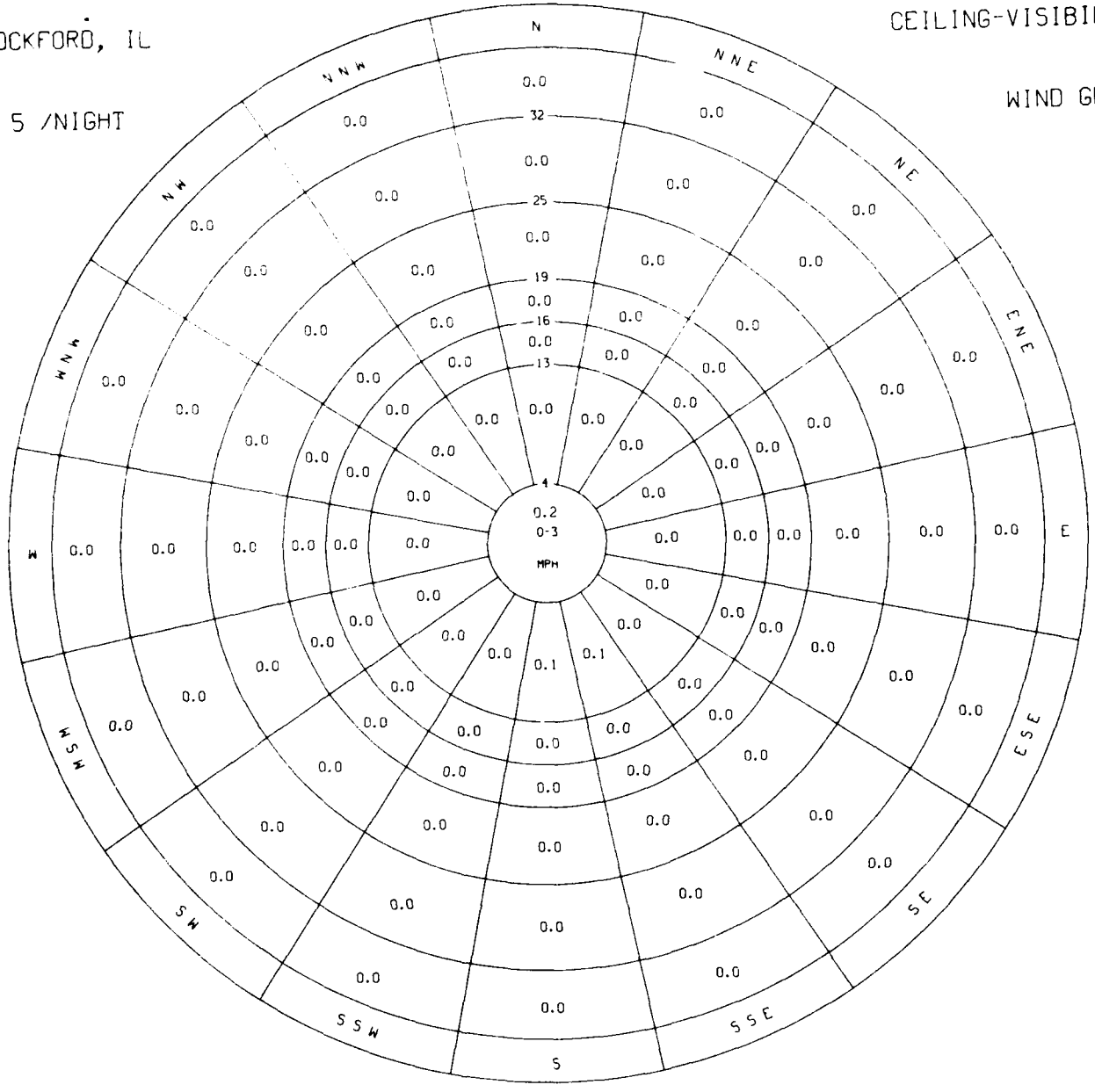
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	.7	.0	.0	.0	.0	.0	2.2	.0	.0	.0	.0	.0	3.0	17.7
NNE	.0	.0	.0	5.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	6.0	10.0
NE	.0	.7	.0	1.5	.0	.7	.0	.0	.0	2.2	.0	.0	.0	.0	.0	5.2	14.3
ENE	.0	1.5	.0	3.7	.0	.7	.0	.0	.0	.7	.0	.7	.0	.0	.0	7.5	10.6
E	.0	.0	.0	6.0	.0	.7	.0	.7	.0	.7	.0	.7	.0	.0	.0	9.0	11.4
ESE	.0	1.5	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.1
SE	.0	.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	8.4
SSE	.0	1.5	.0	8.2	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	10.4	7.9
S	.0	.0	.0	11.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.9	8.5
SSW	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	8.0
SW	.0	.7	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	4.7
WSW	.0	1.5	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	5.9
W	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	8.0
WNW	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	.7	.0	.0	.0	1.5	23.0
NNW	.0	.0	.0	3.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	8.4
CALM	.0	10.4													.0	10.4	
TOTAL	.1	18.7	.2	66.4	.0	3.7	.0	2.2	.0	6.7	.0	2.2	.0	.0	.4	100	8.3

RFD ROCKFORD, IL

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 5 / NIGHT

STATION NUMBER: 94822

NO. OBS.: 200

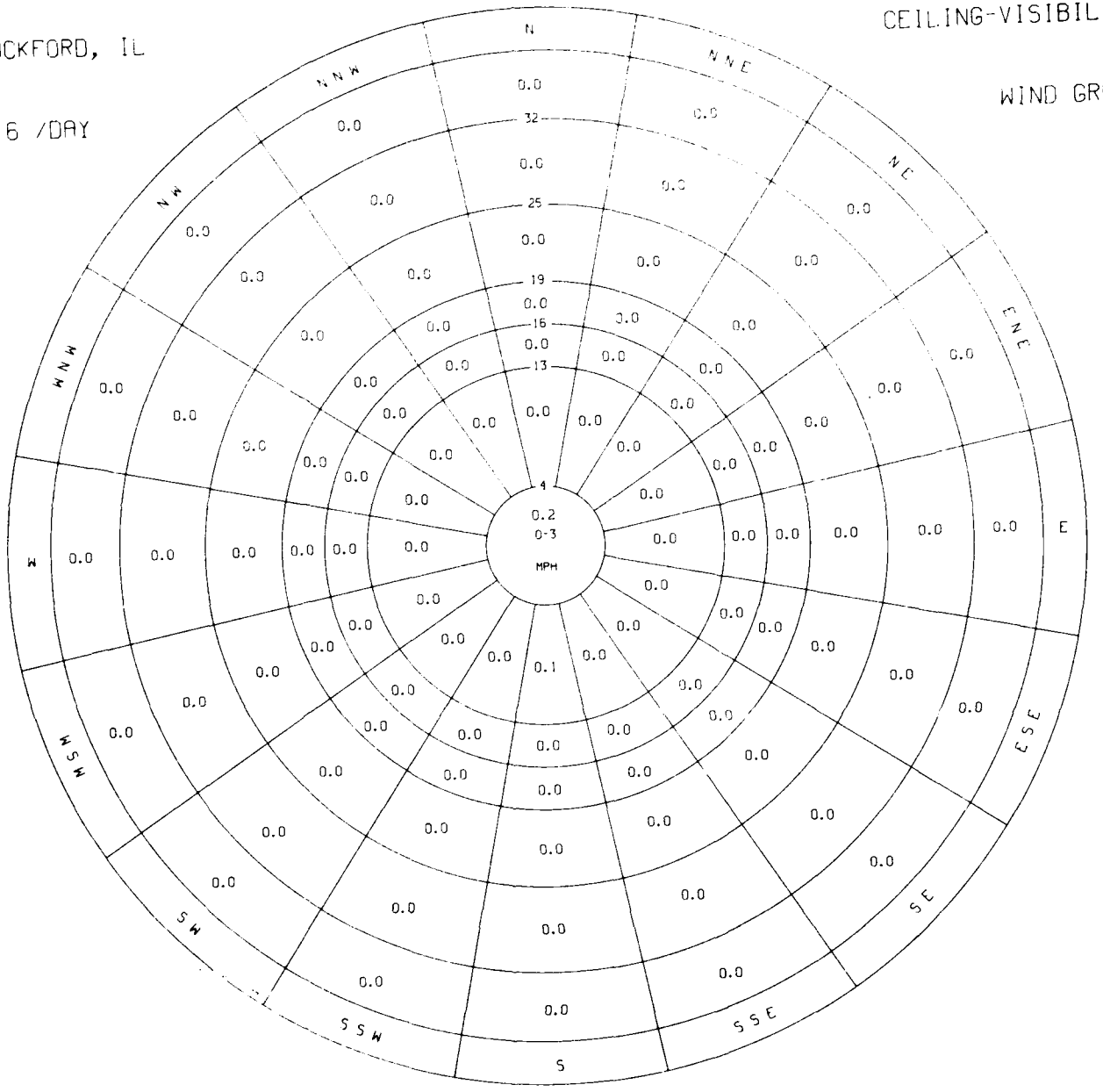
DIR	SPEED GROUPS (MPH)														TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	3.5	8.3
NNE	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	2.5	11.0
NE	.0	.5	.0	1.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	2.5	9.8
ENE	.0	1.5	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.9
E	.0	1.0	.0	7.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.1	9.0	7.2
ESE	.0	1.0	.0	2.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	8.6
SE	.0	2.0	.0	4.5	.0	1.5	.0	.0	.0	1.0	.0	.0	.0	.0	.1	9.0	8.9
SSE	.0	.5	.1	9.5	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.1	11.5	8.4
S	.0	3.0	.1	11.0	.0	1.0	.0	1.0	.0	.5	.0	.0	.0	.0	.1	16.5	8.3
SSW	.0	1.0	.0	5.0	.0	1.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	7.5	9.1
SW	.0	.5	.0	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	8.4
WSW	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	10.0
W	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	5.0
WNW	.0	1.5	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	5.1
NW	.0	.0	.0	3.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	4.0	9.4
NNW	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	8.8
CALM	.1	12.0													.1	12.0	
TOTAL	.2	26.5	.4	61.0	.0	6.0	.0	2.5	.0	3.5	.0	.5	.0	.0	.6	100	7.2

RFD ROCKFORD, IL

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 6 / DAY

STATION NUMBER: 94822

NO. OBS.: 185

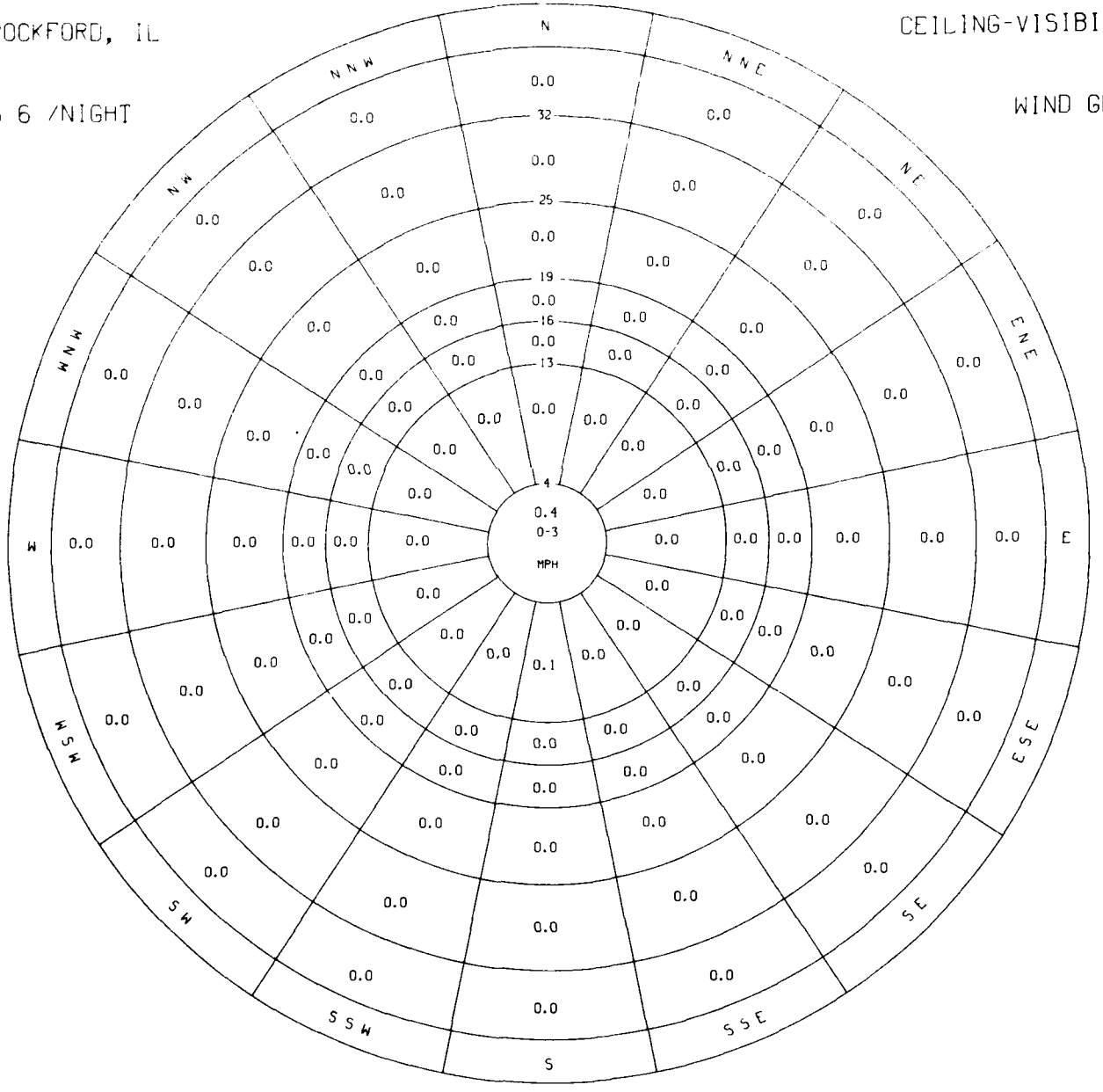
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.2	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.7	9.4
NNE	.0	1.1	.0	2.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.1
NE	.0	1.1	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.0
ENE	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	3.0
E	.0	1.6	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	5.9
ESE	.0	1.1	.0	3.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	7.3
SE	.0	.0	.0	6.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	9.1
SSE	.0	3.2	.0	2.7	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	7.6	6.4
S	.0	3.8	.1	10.8	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	16.8	7.1
SSW	.0	2.2	.0	8.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.3	6.3
SW	.0	2.2	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	5.5
WSW	.0	.5	.0	2.7	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.8	6.6
W	.0	1.1	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.6
WNW	.0	1.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	2.2	14.2
NW	.0	1.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	4.2
NNW	.0	2.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	3.7
CALM	.1	15.7													.1	15.7	
TOTAL	.2	39.5	.3	51.9	.0	6.5	.0	1.6	.0	.0	.0	.0	.0	.5	.5	100	5.7

RFD ROCKFORD, IL

CEILING-VISIBILITY

CLASS 6 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: RFD ROCKFORD, IL

PERIOD: 1952-1978

CLASS 6 / NIGHT

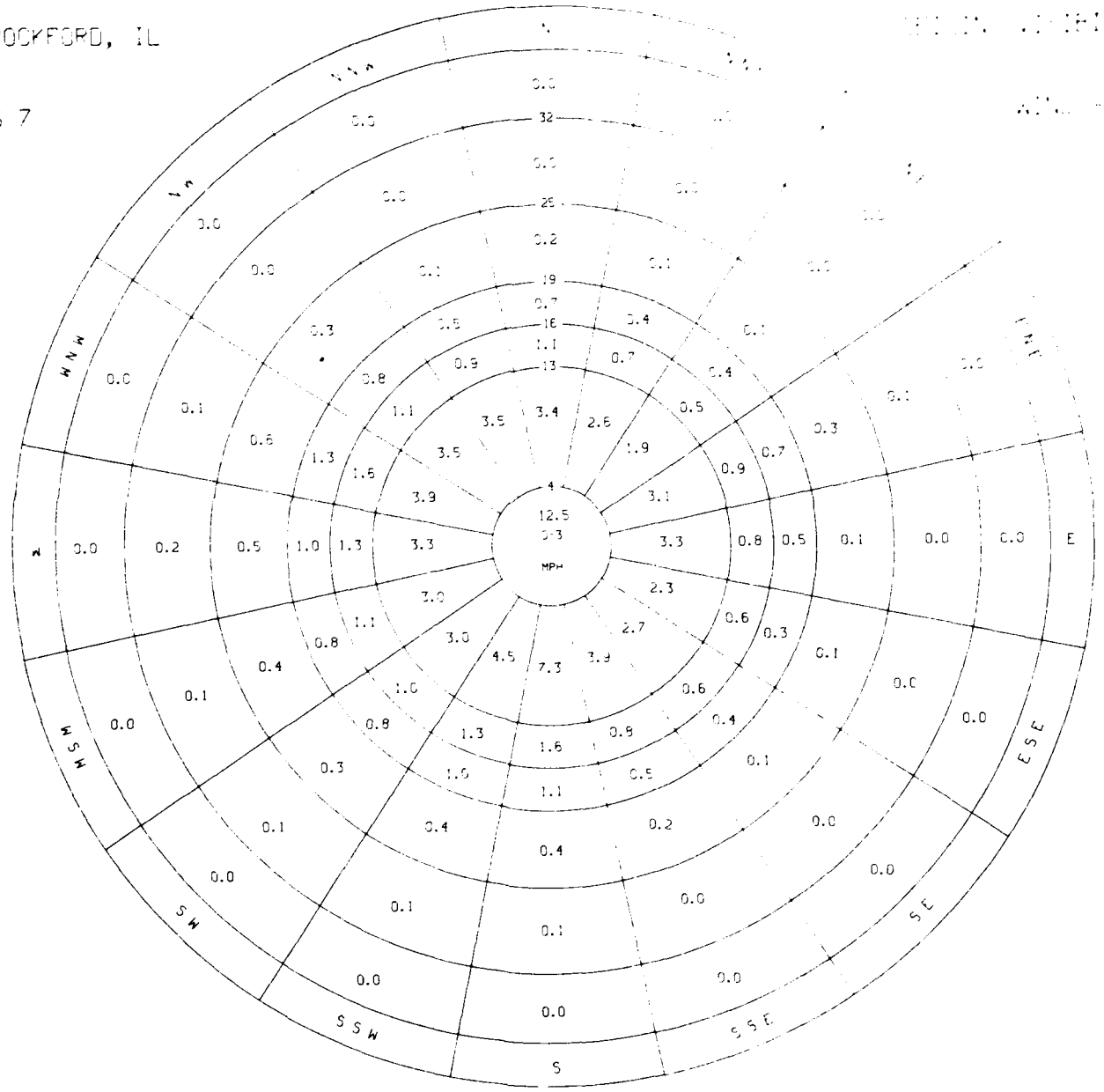
STATION NUMBER: 94822

NO. OBS.: 234

DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	1.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	8.2
NNE	.0	1.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	3.8
NE	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	7.2
ENE	.0	1.3	.0	4.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	6.4	6.4
E	.0	2.1	.0	6.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.5	5.8
ESE	.0	1.3	.0	2.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.3
SE	.0	1.3	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	5.9
SSE	.0	3.0	.0	4.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	8.1	6.1
S	.0	3.4	.1	10.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	14.1	6.4
SSW	.0	2.1	.0	6.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.5	5.7
SW	.0	.9	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	5.4
WSW	.0	2.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	3.3
W	.0	.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.3
WNW	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	3.8
NW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	7.0
NNW	.0	.4	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	5.2
CALM	.2	26.9													.2	26.9	
TOTAL	.4	48.7	.4	48.3	.0	2.1	.0	.9	.0	.0	.0	.0	.0	.0	.7	100	4.3

RFD ROCKFORD, IL

CLASS 7

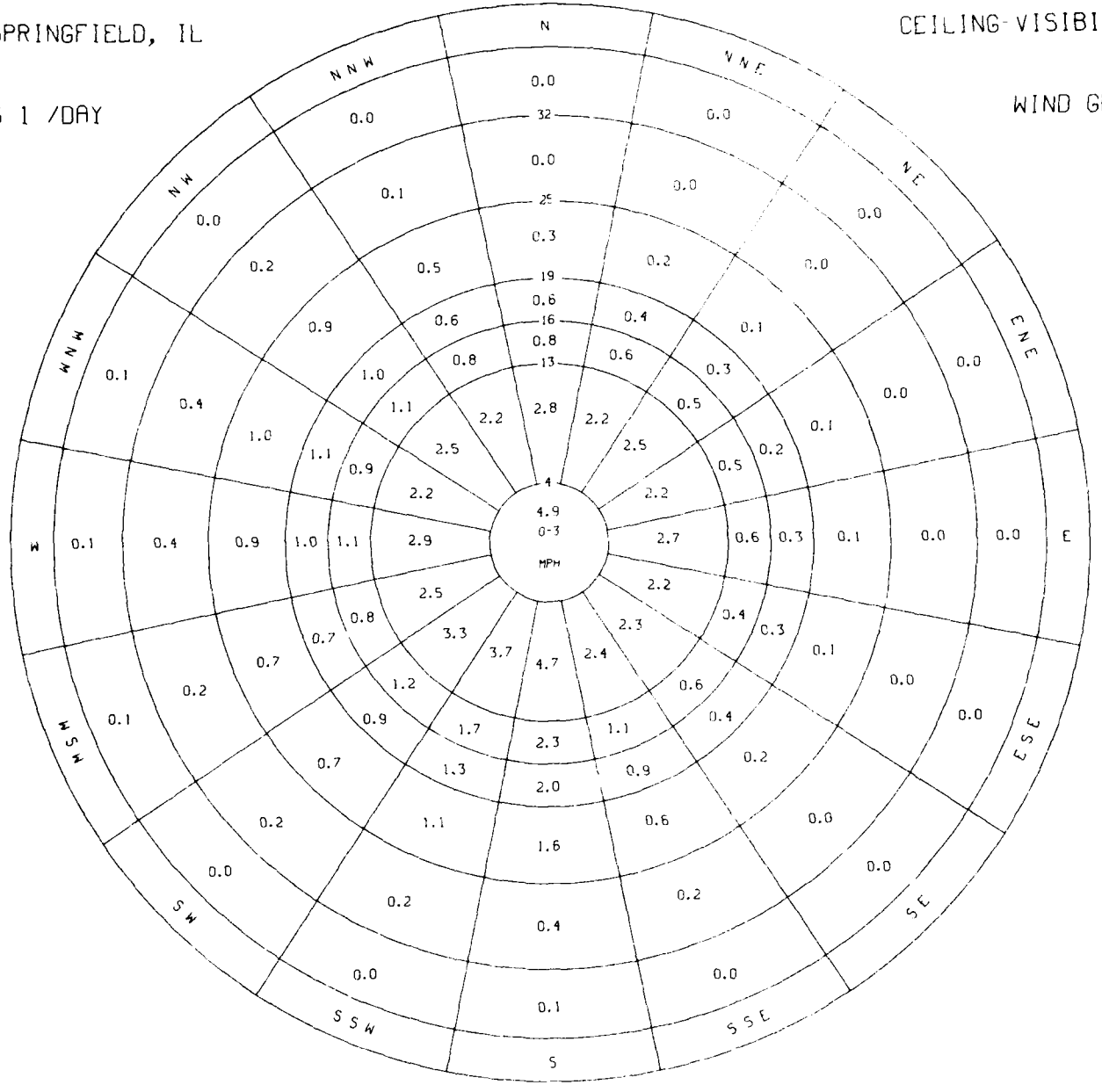


SPI SPRINGFIELD, IL

CEILING-VISIBILITY

CLASS 1 /DAY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 93822

NO. OBS.: 42780

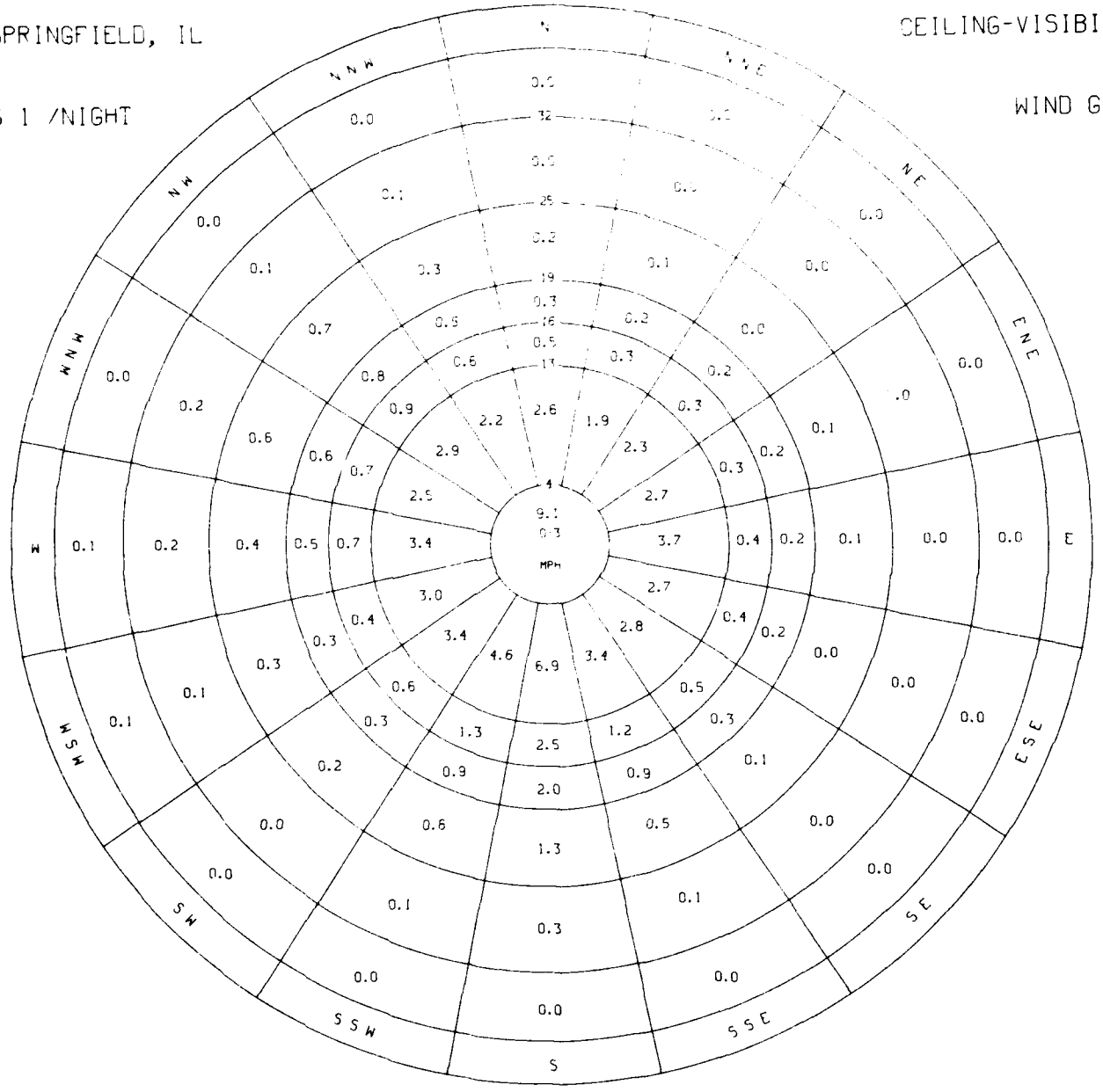
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.3	2.8	3.2	.8	1.0	.6	.7	.3	.3	.0	.0	.0	.0	4.8	5.5	10.8
NNE	.2	.3	2.2	2.6	.6	.7	.4	.4	.2	.2	.0	.0	.0	.0	3.6	4.2	10.5
NE	.4	.4	2.5	2.8	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.8	4.3	9.4
ENE	.3	.3	2.2	2.6	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.3	3.8	9.5
E	.4	.4	2.7	3.1	.6	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.0	4.6	9.5
ESE	.2	.2	2.2	2.5	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.2	3.7	9.8
SE	.2	.3	2.3	2.6	.6	.7	.4	.5	.2	.2	.0	.0	.0	.0	3.7	4.3	10.5
SSE	.2	.2	2.4	2.8	1.1	1.2	.9	1.0	.6	.7	.2	.2	.0	.0	5.4	6.1	13.0
S	.3	.4	4.7	5.4	2.3	2.7	2.0	2.3	1.6	1.8	.4	.5	.1	.1	11.5	13.1	13.8
SSW	.2	.3	3.7	4.3	1.7	1.9	1.3	1.5	1.1	1.3	.2	.3	.0	.0	8.3	9.6	13.3
SW	.3	.4	3.3	3.7	1.2	1.3	.9	1.1	.7	.8	.2	.3	.0	.1	6.7	7.7	12.6
WSW	.2	.2	2.5	2.8	.8	1.0	.7	.8	.7	.8	.2	.3	.1	.1	5.2	6.0	13.4
W	.3	.3	2.9	3.3	1.1	1.2	1.0	1.1	.9	1.0	.4	.4	.1	.1	6.6	7.5	13.7
WNW	.2	.2	2.2	2.5	.9	1.1	1.1	1.2	1.0	1.2	.4	.4	.1	.1	5.8	6.7	14.7
NW	.3	.3	2.5	2.9	1.1	1.2	1.0	1.1	.9	1.1	.2	.2	.0	.0	6.0	6.9	13.3
NNW	.2	.3	2.2	2.6	.8	.9	.6	.7	.5	.6	.1	.1	.0	.0	4.5	5.2	12.2
CALM	.7	.8													.7	.8	
TOTAL	4.9	5.6	43.4	49.8	15.0	17.2	11.9	13.7	9.0	10.4	2.4	2.8	.5	.6	87.2	100	12.3

SPI SPRINGFIELD, IL

CEILING-VISIBILITY

CLASS 1 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 93822

NO. OBS.: 36121

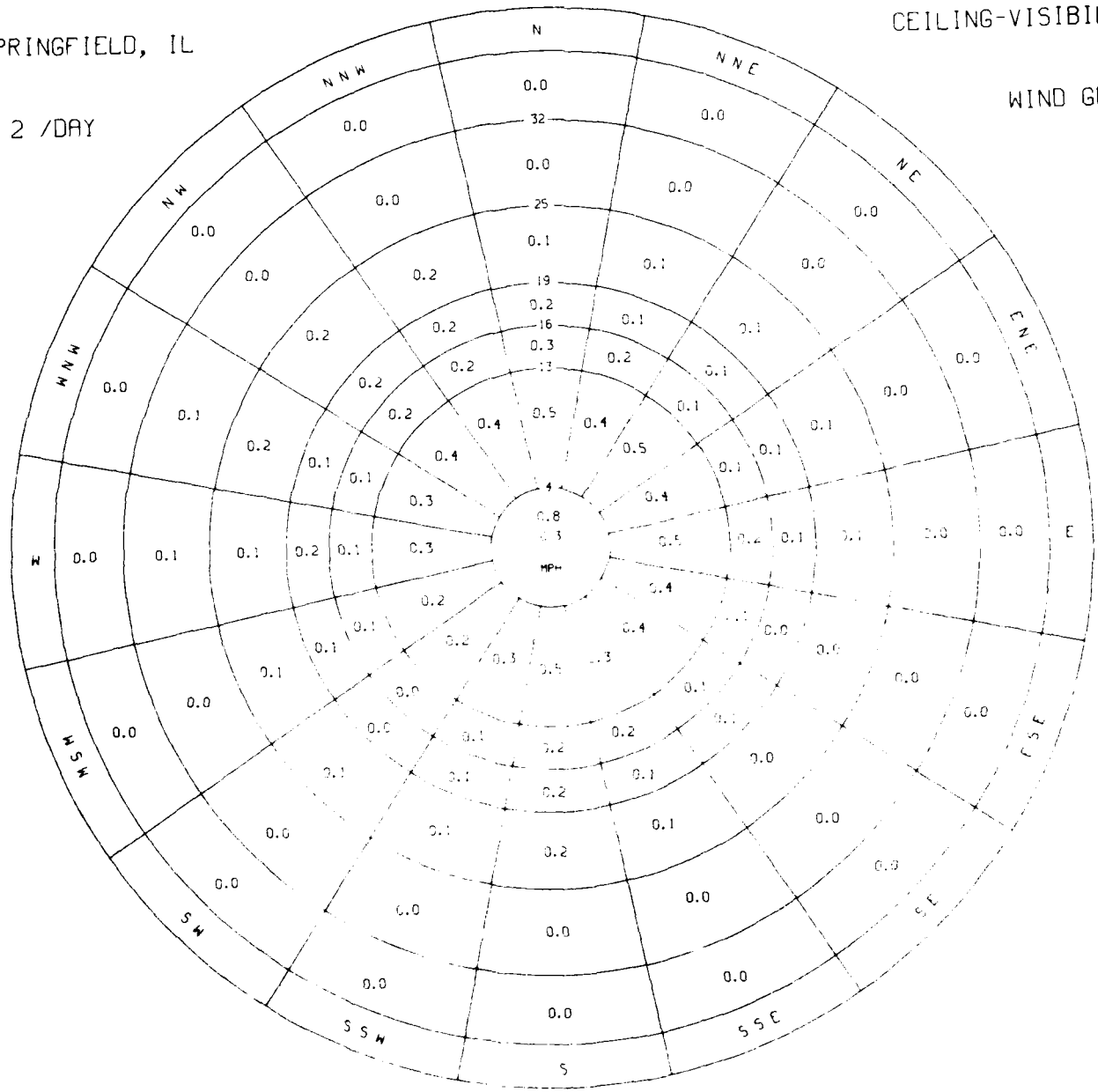
DIR	SPEED GROUPS (MPH)														TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.4	.5	2.6	3.0	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	4.1	4.8	9.6
NNE	.3	.3	1.9	2.2	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.7	3.1	8.7
NE	.6	.7	2.3	2.6	.3	.3	.2	.2	.0	.0	.0	.0	.0	.0	3.3	3.8	7.9
ENE	.4	.5	2.7	3.1	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.7	4.3	8.5
E	.6	.7	3.7	4.3	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	5.0	5.8	8.0
ESE	.3	.4	2.7	3.1	.4	.4	.2	.2	.0	.1	.0	.0	.0	.0	3.6	4.1	8.5
SE	.4	.5	2.8	3.2	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	4.2	4.8	9.2
SSE	.3	.3	3.4	4.0	1.2	1.4	.9	1.0	.5	.5	.1	.1	.0	.0	6.4	7.4	11.6
S	.6	.7	6.9	8.0	2.5	2.9	2.0	2.3	1.3	1.5	.3	.3	.0	.0	13.6	15.6	12.2
SSW	.5	.6	4.6	5.3	1.3	1.5	.9	1.1	.6	.7	.1	.1	.0	.0	8.0	9.2	11.0
SW	.6	.6	3.4	3.9	.6	.7	.3	.4	.2	.3	.0	.0	.0	.0	5.1	5.9	9.2
WSW	.5	.6	3.0	3.5	.4	.5	.3	.3	.3	.3	.1	.1	.1	.1	4.6	5.3	9.8
W	.5	.6	3.4	3.9	.7	.8	.5	.6	.4	.4	.2	.2	.1	.1	5.8	6.6	10.9
WNW	.3	.4	2.5	2.9	.7	.8	.6	.7	.6	.6	.2	.2	.0	.0	5.0	5.7	12.2
NW	.4	.4	2.9	3.3	.9	1.1	.8	.9	.7	.8	.1	.2	.0	.0	5.7	6.6	12.1
NNW	.3	.3	2.2	2.5	.6	.7	.5	.6	.3	.4	.1	.1	.0	.0	4.0	4.6	11.2
CALM	2.1	2.4													2.1	2.4	
TOTAL	9.1	10.4	51.1	58.7	11.7	13.4	8.3	9.5	5.5	6.3	1.2	1.3	.3	.3	87.1	100	10.2

SPI SPRINGFIELD, IL

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 93822

NO. OBS.: 6267

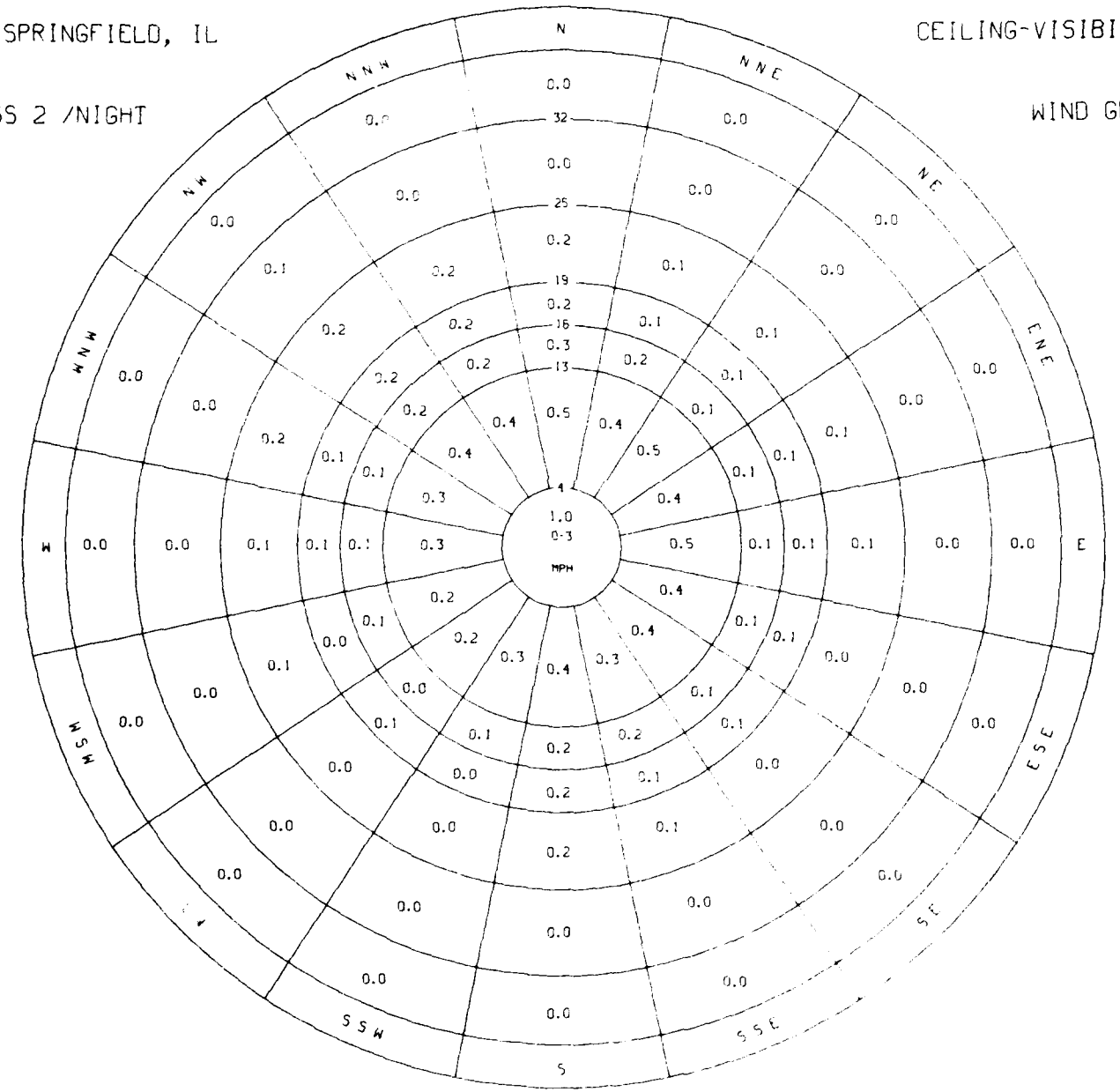
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.5	4.2	.3	2.0	.2	1.6	.1	1.1	.0	.3	.0	.0	1.2	9.7	13.1
NNE	.0	.4	.4	3.2	.2	1.4	.1	.9	.1	.9	.0	.1	.0	.0	.9	7.0	12.7
NE	.1	.5	.5	3.5	.1	1.0	.1	.8	.1	.7	.0	.1	.0	.0	.9	6.7	11.4
ENE	.1	.5	.4	3.1	.1	.7	.1	.7	.1	.5	.0	.2	.0	.0	.7	5.7	11.4
E	.1	.6	.5	4.1	.2	1.2	.1	.5	.1	.4	.0	.1	.0	.0	.9	6.9	10.4
ESE	.1	.4	.4	3.0	.1	1.1	.0	.4	.0	.3	.0	.1	.0	.0	.7	5.3	10.6
SE	.1	.4	.4	2.7	.1	.9	.1	.6	.0	.3	.0	.1	.0	.0	.7	5.1	11.0
SSE	.0	.3	.3	2.3	.2	1.2	.1	1.1	.1	.7	.0	.2	.0	.0	.7	5.8	13.2
S	.0	.1	.5	3.7	.2	1.3	.2	1.3	.2	1.2	.0	.3	.0	.1	1.0	8.0	13.8
SSW	.0	.3	.3	2.1	.1	.9	.1	.6	.1	.5	.0	.2	.0	.0	.6	4.6	12.7
SW	.0	.2	.2	1.5	.0	.4	.0	.3	.1	.4	.0	.1	.0	.0	.4	3.0	12.4
WSW	.0	.3	.2	1.5	.1	.6	.1	.5	.1	.5	.0	.2	.0	.1	.5	3.7	13.3
W	.0	.3	.3	2.1	.1	.9	.2	1.2	.1	1.1	.1	.4	.0	.2	.8	6.3	15.3
WNW	.0	.2	.3	2.1	.1	1.0	.1	1.0	.2	1.2	.1	.5	.0	.1	.8	6.2	15.3
NW	.0	.2	.4	3.0	.2	1.3	.2	1.2	.2	1.3	.0	.3	.0	.0	.9	7.3	14.1
NNW	.0	.3	.4	2.9	.2	1.5	.2	1.3	.2	1.3	.0	.2	.0	.0	1.0	7.5	13.8
CALM	.1	1.1													.1	1.1	
TOTAL	.8	6.5	5.8	45.3	2.2	17.6	1.8	14.1	1.6	12.5	.4	3.3	.1	.9	12.8	100	12.7

SPI SPRINGFIELD, IL

CEILING-VISIBILITY

CLASS 2 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 93822

NO. OBS.: 5357

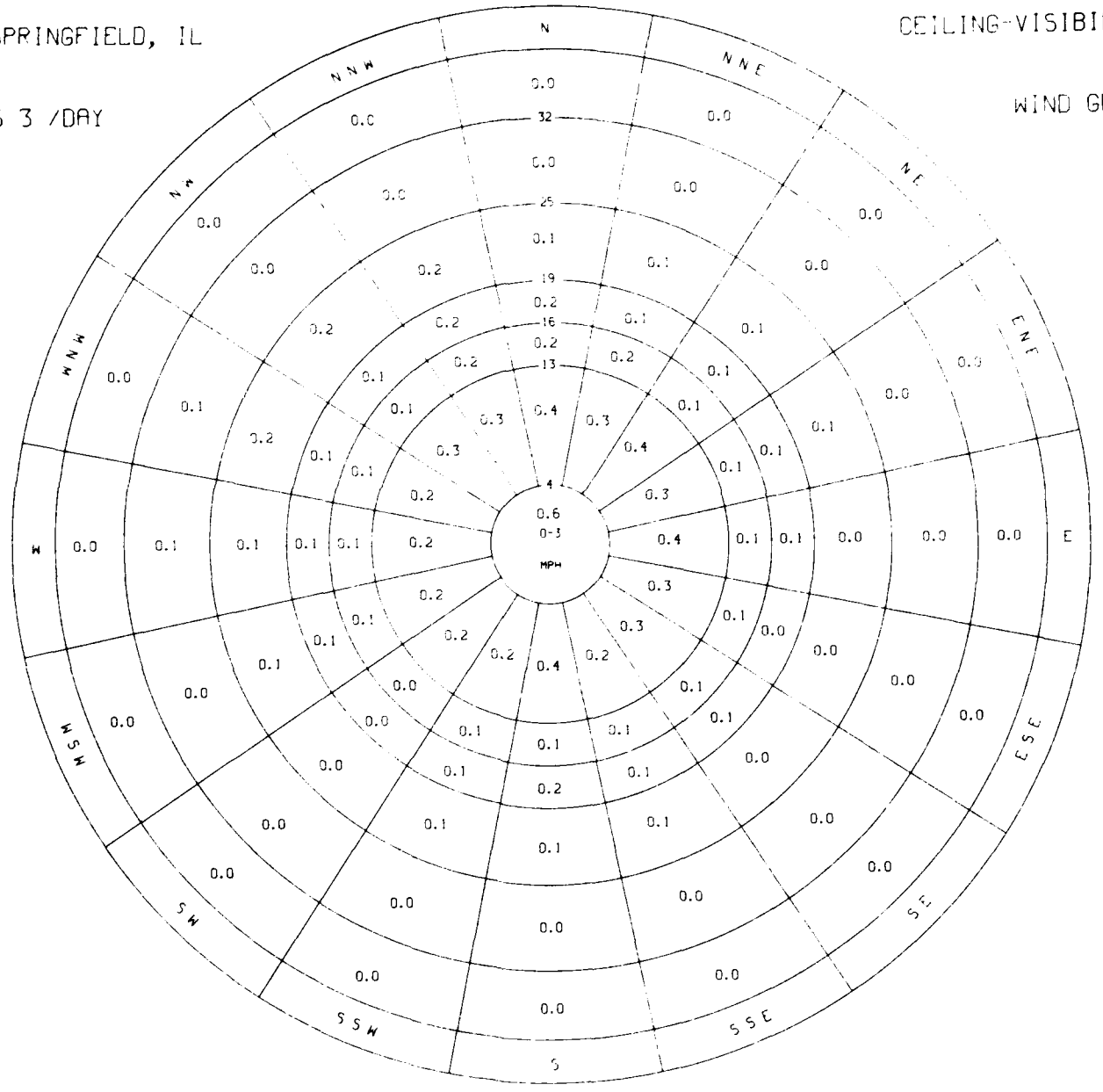
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.5	3.9	.3	2.0	.2	1.6	.2	1.4	.0	.1	.0	.0	1.2	9.4	13.2
NNE	.0	.2	.4	3.0	.2	1.3	.1	1.1	.1	.7	.0	.1	.0	.0	.8	6.4	12.7
NE	.1	.6	.5	3.8	.1	1.0	.1	.7	.1	.7	.0	.1	.0	.0	.9	7.0	11.4
ENE	.0	.2	.4	3.0	.1	.6	.1	.7	.1	.4	.0	.0	.0	.0	.7	5.0	11.2
E	.1	1.0	.5	4.2	.1	.7	.1	.8	.1	.5	.0	.1	.0	.0	.9	7.3	10.0
ESE	.1	.5	.4	3.0	.1	.6	.1	.5	.0	.3	.0	.0	.0	.0	.6	4.9	10.3
SE	.1	.6	.4	3.0	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.4	10.2
SSE	.0	.3	.3	2.6	.2	1.2	.1	.9	.1	.4	.0	.2	.0	.0	.7	5.7	12.4
S	.0	.4	.4	3.4	.2	1.4	.2	1.5	.2	1.3	.0	.4	.0	.1	1.1	8.3	13.7
SSW	.0	.3	.3	2.4	.1	.5	.0	.4	.0	.3	.0	.1	.0	.0	.5	3.9	11.2
SW	.1	.4	.2	1.6	.0	.3	.1	.4	.0	.2	.0	.1	.0	.1	.4	3.0	10.9
WSW	.0	.4	.2	1.4	.1	.5	.0	.4	.1	.4	.0	.1	.0	.0	.4	3.1	12.0
W	.1	.5	.3	2.5	.1	.3	.1	1.0	.1	.8	.0	.3	.0	.1	.8	6.0	13.3
WNW	.0	.3	.3	2.4	.1	1.0	.1	1.1	.2	1.2	.0	.4	.0	.1	.8	6.3	14.3
NW	.0	.3	.4	3.2	.2	1.6	.2	1.5	.2	1.2	.1	.5	.0	.1	1.1	8.3	14.3
NNW	.0	.3	.4	3.2	.2	1.8	.2	1.2	.2	1.4	.0	.4	.0	.0	1.1	8.3	14.0
CALM	.2	1.4													.2	1.4	
TOTAL	1.0	8.0	6.0	46.4	2.1	16.5	1.8	14.2	1.5	11.4	.4	2.8	.1	.6	12.9	100	12.2

SPI SPRINGFIELD, IL

CEILING-VISIBILITY

CLASS 3 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 93822

NO. OBS.: 5203

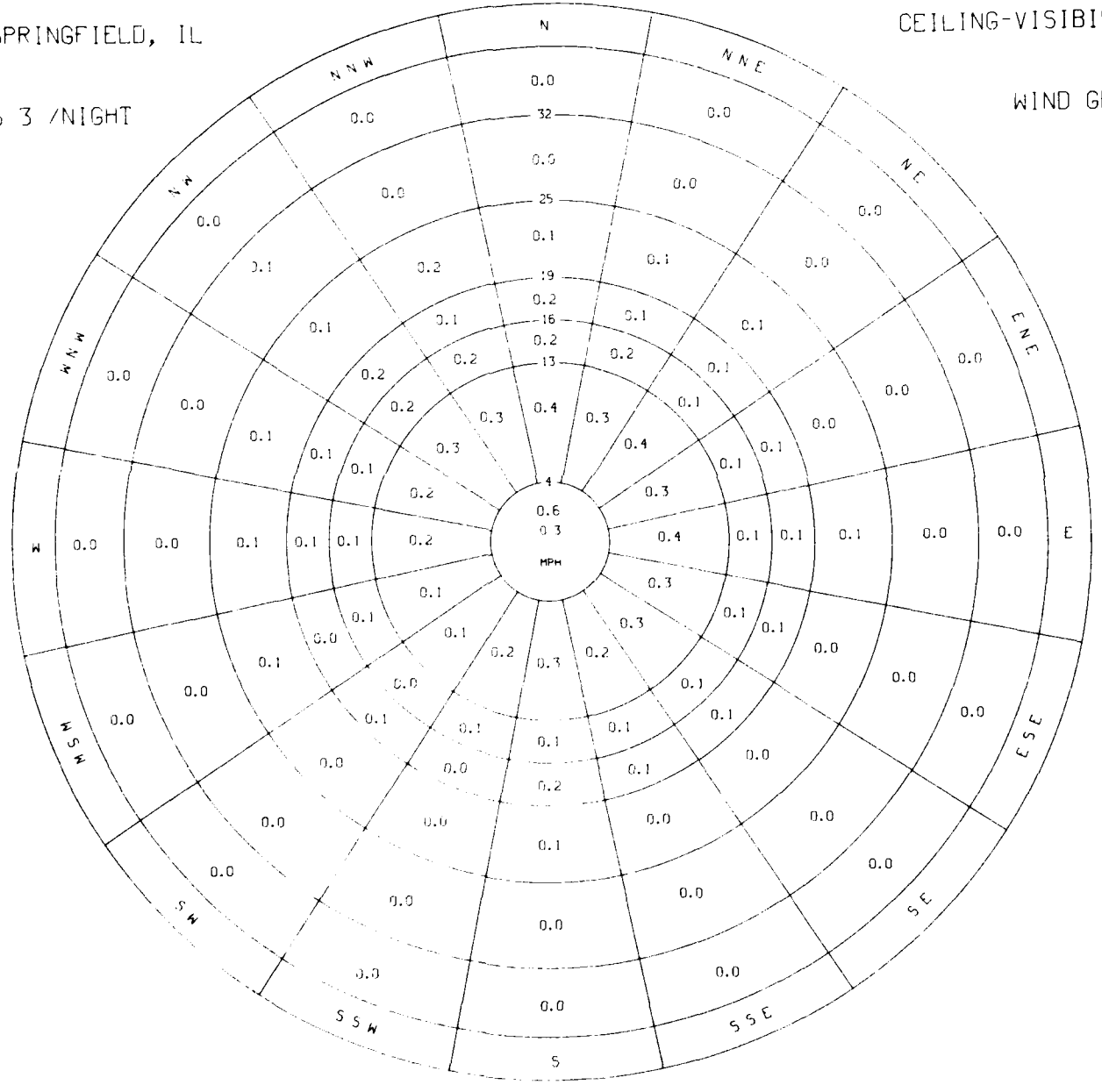
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.4	4.0	.2	2.1	.2	1.6	.1	1.2	.0	.3	.0	.1	1.0	9.6	13.3
NNE	.0	.3	.3	3.0	.2	1.5	.1	1.1	.1	.9	.0	.1	.0	.0	.7	6.8	13.0
NE	.1	.5	.4	3.3	.1	1.1	.1	.9	.1	.7	.0	.1	.0	.0	.7	6.7	11.7
ENE	.0	.4	.3	2.9	.1	.7	.1	.7	.1	.5	.0	.2	.0	.0	.6	5.4	11.6
E	.1	.5	.4	3.6	.1	1.1	.1	.6	.0	.4	.0	.1	.0	.0	.7	6.2	10.6
ESE	.0	.3	.3	2.7	.1	1.1	.0	.4	.0	.3	.0	.1	.0	.0	.5	4.8	10.9
SE	.0	.3	.3	2.5	.1	.8	.1	.7	.0	.3	.0	.1	.0	.0	.5	4.7	11.4
SSE	.0	.3	.2	2.2	.1	1.2	.1	1.1	.1	.7	.0	.2	.0	.1	.6	5.9	13.5
S	.0	.1	.4	3.6	.1	1.3	.2	1.5	.1	1.3	.0	.3	.0	.1	.9	8.2	14.1
SSW	.0	.3	.2	1.9	.1	.9	.1	.7	.1	.6	.0	.2	.0	.0	.5	4.6	13.2
SW	.0	.1	.2	1.6	.0	.4	.0	.3	.0	.4	.0	.2	.0	.1	.3	3.1	13.0
WSW	.0	.3	.2	1.5	.1	.7	.1	.6	.1	.6	.0	.2	.0	.1	.4	3.9	13.8
W	.0	.2	.2	2.2	.1	1.0	.1	1.4	.1	1.4	.1	.5	.0	.3	.7	7.0	15.3
WNW	.0	.1	.2	2.0	.1	1.2	.1	1.2	.2	1.4	.1	.5	.0	.1	.7	6.5	16.3
NW	.0	.1	.3	3.3	.1	1.4	.1	1.4	.2	1.4	.0	.3	.0	.1	.8	7.6	13.9
NNW	.0	.2	.3	3.3	.2	1.6	.2	1.5	.2	1.4	.1	.2	.0	.1	.9	7.9	14.1
CALM	1.9														1.9		
TOTAL	.5	5.4	4.6	43.5	1.9	15.2	1.6	15.3	1.5	13.7	.4	3.5	.1	.9	10.6	100.0	

SPI SPRINGFIELD, IL

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 93822

NO. OBS.: 4149

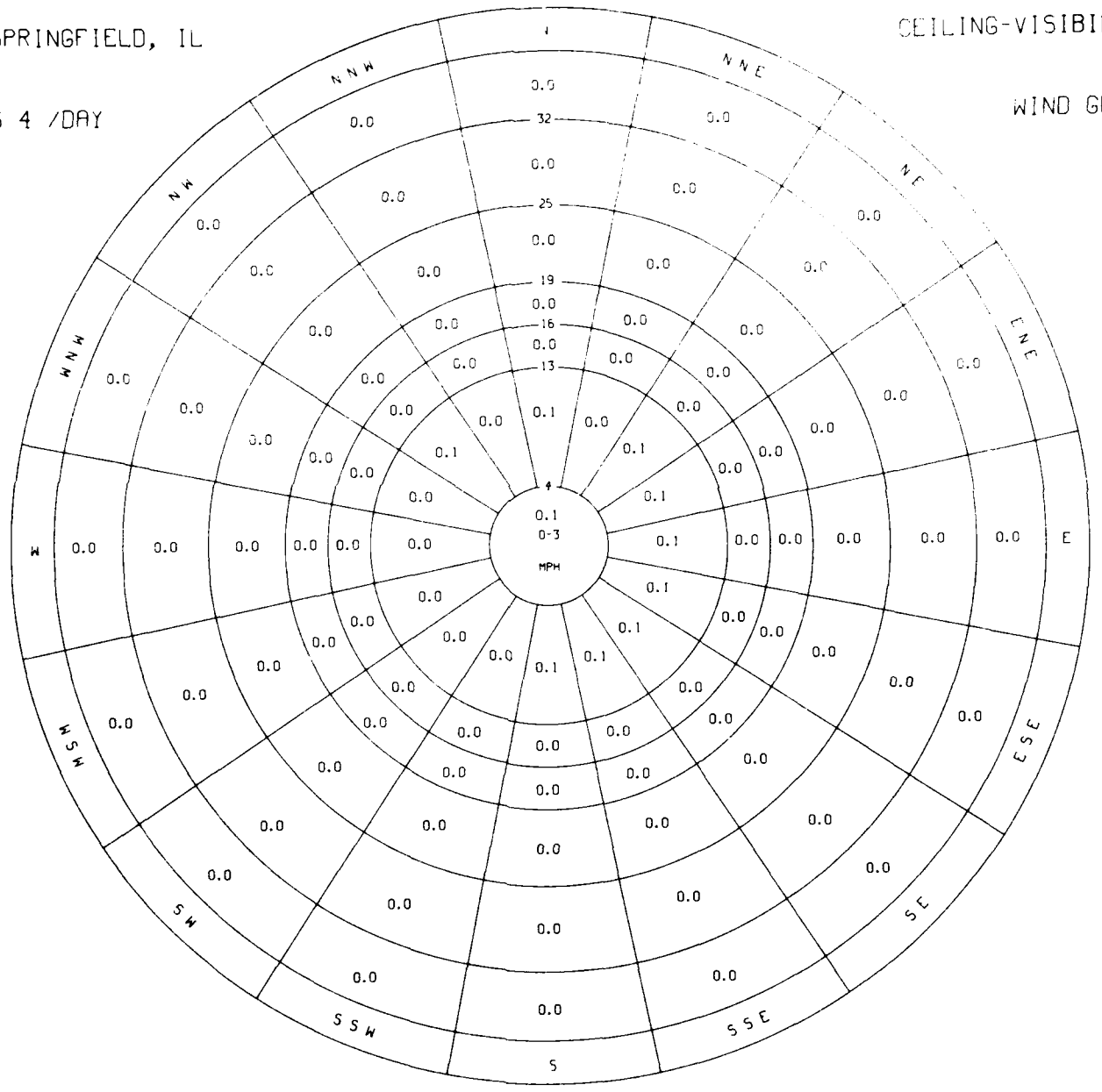
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.4	3.7	.2	2.3	.2	1.8	.1	1.5	.0	.2	.0	.0	1.0	9.8	13.7
NNE	.0	.2	.3	3.0	.2	1.5	.1	1.2	.1	.8	.0	.1	.0	.0	.7	6.9	13.1
NE	.0	.5	.4	3.6	.1	1.0	.1	.8	.1	.7	.0	.2	.0	.0	.7	6.8	11.8
ENE	.0	.2	.3	2.6	.1	.6	.1	.8	.0	.4	.0	.0	.0	.0	.5	4.6	11.9
E	.1	.9	.4	3.7	.1	.8	.1	.8	.1	.6	.0	.1	.0	.0	.7	6.9	10.4
ESE	.0	.4	.3	2.6	.1	.5	.1	.6	.0	.3	.0	.0	.0	.0	.4	4.5	10.8
SE	.1	.5	.3	2.6	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.5	5.1	10.7
SSE	.0	.3	.2	2.3	.1	1.3	.1	1.0	.0	.4	.0	.2	.0	.0	.6	5.5	12.7
S	.0	.3	.3	2.9	.1	1.4	.2	1.5	.1	1.4	.0	.5	.0	.1	.8	8.1	14.5
SSW	.0	.2	.2	2.0	.1	.5	.0	.4	.0	.4	.0	.1	.0	.0	.4	3.7	12.3
SW	.0	.2	.1	1.4	.0	.3	.1	.5	.0	.3	.0	.1	.0	.1	.3	2.8	12.6
WSW	.0	.1	.1	1.1	.1	.6	.0	.4	.1	.6	.0	.1	.0	.0	.3	3.0	14.0
W	.0	.3	.2	2.4	.1	1.1	.1	1.2	.1	.9	.0	.4	.0	.1	.6	6.4	14.4
WNW	.0	.2	.2	2.4	.1	1.1	.1	1.3	.1	1.5	.0	.5	.0	.0	.7	7.1	15.0
NW	.0	.1	.3	3.4	.2	2.0	.2	1.8	.1	1.4	.1	.7	.0	.1	.9	9.3	14.8
NNW	.0	.2	.3	3.0	.2	2.1	.1	1.3	.2	1.7	.0	.4	.0	.0	.9	8.7	14.6
CALM	.1	.9													.1	.9	
TOTAL	.6	5.9	4.3	42.6	1.8	18.1	1.6	16.2	1.3	13.1	.3	3.5	.1	.6	10.0	100	13.1

SPI SPRINGFIELD, IL

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 93822

NO. OBS.: 742

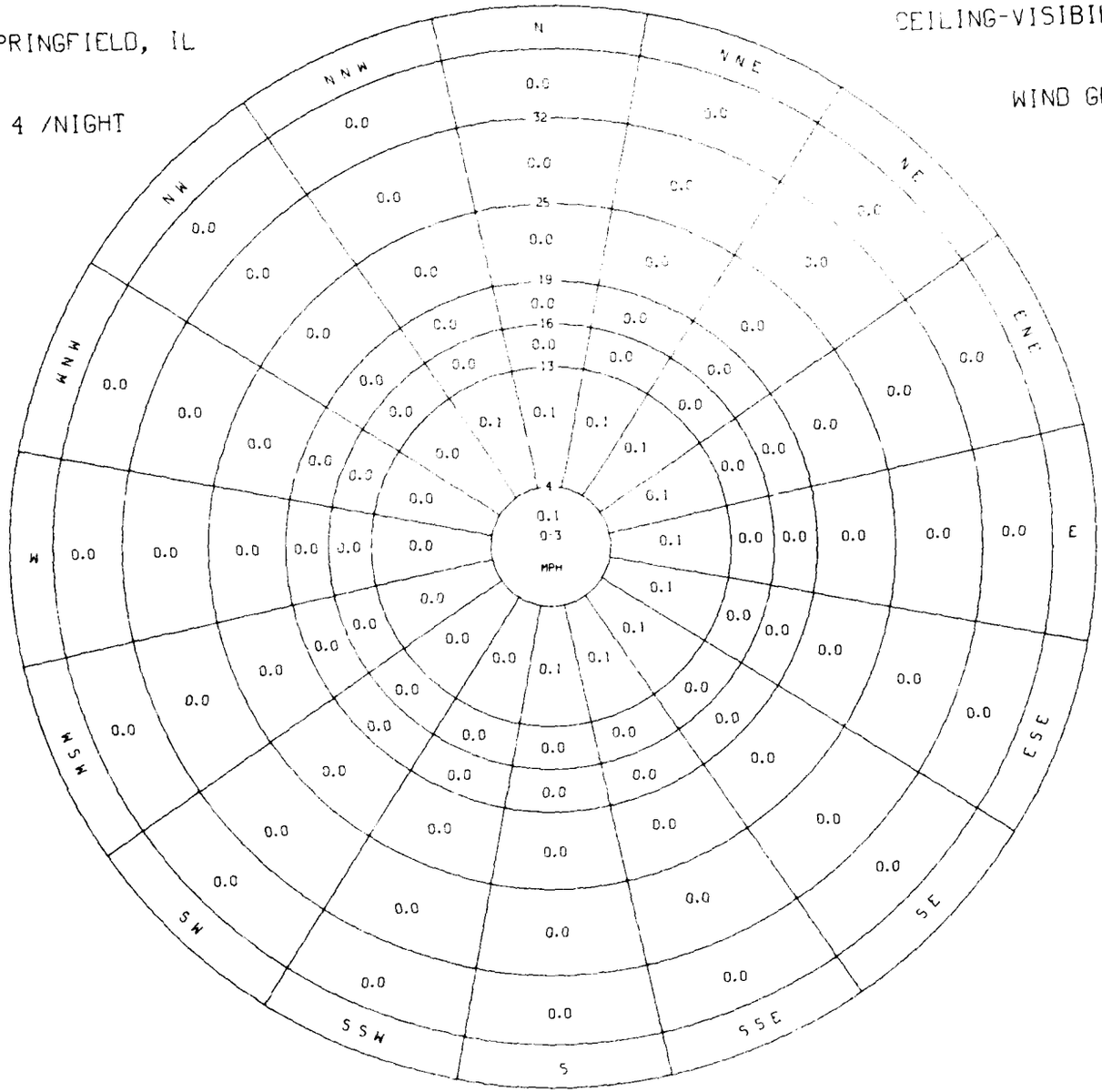
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.1	5.1	.0	2.4	.0	2.3	.0	.8	.0	.0	.0	.0	.2	11.2	12.4
NNE	.0	.4	.0	3.1	.0	1.2	.0	.4	.0	1.2	.0	.1	.0	.1	.1	6.6	13.1
NE	.0	.5	.1	4.0	.0	.9	.0	.4	.0	.9	.0	.0	.0	.0	.1	6.9	10.9
ENE	.0	.9	.1	4.7	.0	.9	.0	1.1	.0	.7	.0	.3	.0	.0	.1	8.6	11.2
E	.0	.7	.1	6.6	.0	2.2	.0	.5	.0	.1	.0	.1	.0	.0	.2	10.2	10.1
ESE	.0	.7	.1	4.0	.0	1.6	.0	.3	.0	.3	.0	.1	.0	.0	.1	7.0	10.2
SE	.0	.5	.1	3.5	.0	1.2	.0	.4	.0	.5	.0	.0	.0	.0	.1	6.2	10.4
SSE	.0	.3	.1	3.4	.0	1.3	.0	1.3	.0	.5	.0	.0	.0	.0	.1	6.9	12.0
S	.0	.0	.1	4.4	.0	1.1	.0	.7	.0	.8	.0	.0	.0	.1	.1	7.1	12.3
SSW	.0	.3	.0	2.3	.0	.4	.0	.1	.0	.0	.0	.1	.0	.0	.0	3.2	10.1
SW	.0	.4	.0	.8	.0	.4	.0	.4	.0	.3	.0	.0	.0	.0	.0	2.3	11.0
WSW	.0	.1	.0	1.6	.0	.1	.0	.1	.0	.0	.0	.0	.0	.1	.0	2.2	11.5
W	.0	.5	.0	1.3	.0	.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	2.8	9.9
WNW	.0	.3	.0	2.6	.0	.5	.0	.5	.0	.1	.0	.1	.0	.1	.1	4.3	12.0
NW	.0	.0	.1	3.6	.0	1.1	.0	.3	.0	.7	.0	.3	.0	.1	.1	6.1	13.1
NNW	.0	.5	.0	2.6	.0	1.8	.0	.8	.0	1.1	.0	.3	.0	.0	.1	7.0	13.2
CALM	.0	1.3													.0	1.3	
TOTAL	.1	8.1	.8	53.8	.3	17.8	.2	10.1	.1	8.1	.0	1.5	.0	.7	1.5	100	11.4

SPI SPRINGFIELD, IL

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 93822

NO. OBS.: 719

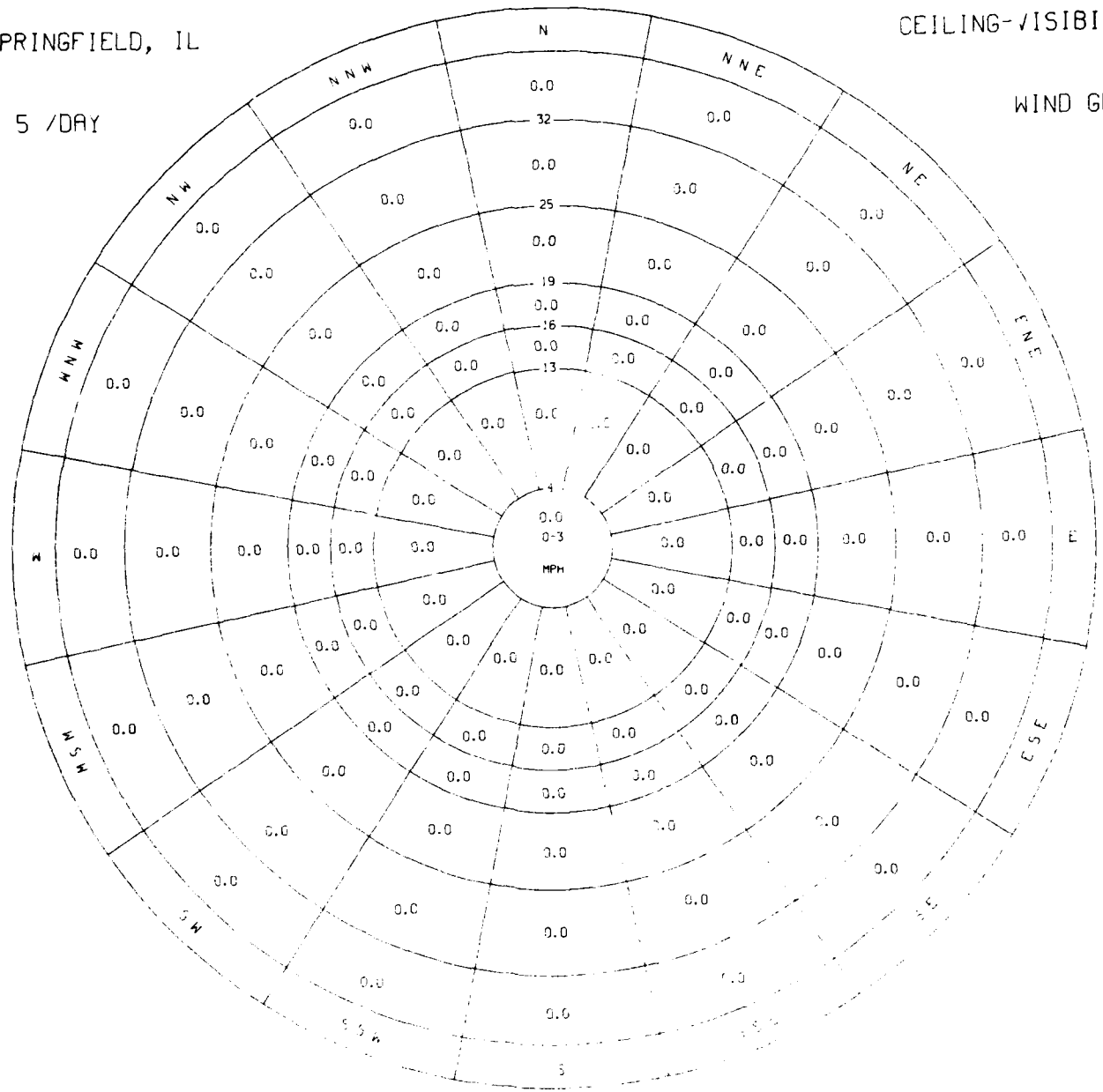
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.1	5.6	.0	1.4	.0	1.1	.0	1.1	.0	.0	.0	.1	.2	9.9	12.0
NNE	.0	.3	.1	3.6	.0	.8	.0	.8	.0	.3	.0	.0	.0	.0	.1	5.8	10.7
NE	.0	.6	.1	4.5	.0	1.5	.0	.7	.0	1.0	.0	.0	.0	.0	.1	8.2	11.2
ENE	.0	.4	.1	5.0	.0	1.4	.0	.3	.0	.4	.0	.0	.0	.0	.1	7.5	10.2
E	.0	1.0	.1	4.7	.0	.6	.0	.7	.0	.4	.0	.1	.0	.0	.1	7.5	10.0
ESE	.0	.6	.1	3.2	.0	1.1	.0	.6	.0	.3	.0	.0	.0	.0	.1	5.7	10.2
SE	.0	.6	.1	4.2	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.1	6.5	10.2
SSE	.0	.1	.1	3.9	.0	1.1	.0	1.0	.0	1.0	.0	.0	.0	.0	.1	7.1	12.4
S	.0	.7	.1	4.6	.0	1.5	.0	1.7	.0	1.3	.0	.0	.0	.0	.2	9.7	12.2
SSW	.0	.1	.0	2.5	.0	.6	.0	.1	.0	.1	.0	.0	.0	.0	.1	3.5	9.5
SW	.0	.0	.0	1.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	9.0
WSW	.0	.3	.0	1.3	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.9	9.1
W	.0	.6	.0	2.5	.0	.3	.0	.1	.0	.3	.0	.3	.0	.1	.1	4.2	10.7
WNW	.0	.4	.0	2.5	.0	.8	.0	.3	.0	.4	.0	.0	.0	.1	.1	4.6	11.4
NW	.0	.3	.0	2.8	.0	.6	.0	.8	.0	1.1	.0	.0	.0	.1	.1	5.7	12.8
NNW	.0	.4	.1	4.5	.0	1.1	.0	1.4	.0	.7	.0	.6	.0	.0	.1	8.6	12.8
CALM	.0	1.8													.0	1.8	
TOTAL	.1	8.6	1.0	56.6	.3	14.6	.2	10.3	.1	8.3	.0	1.0	.0	.6	1.7	100	11.0

SPI SPRINGFIELD, IL

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 93822

NO. OBS.: 161

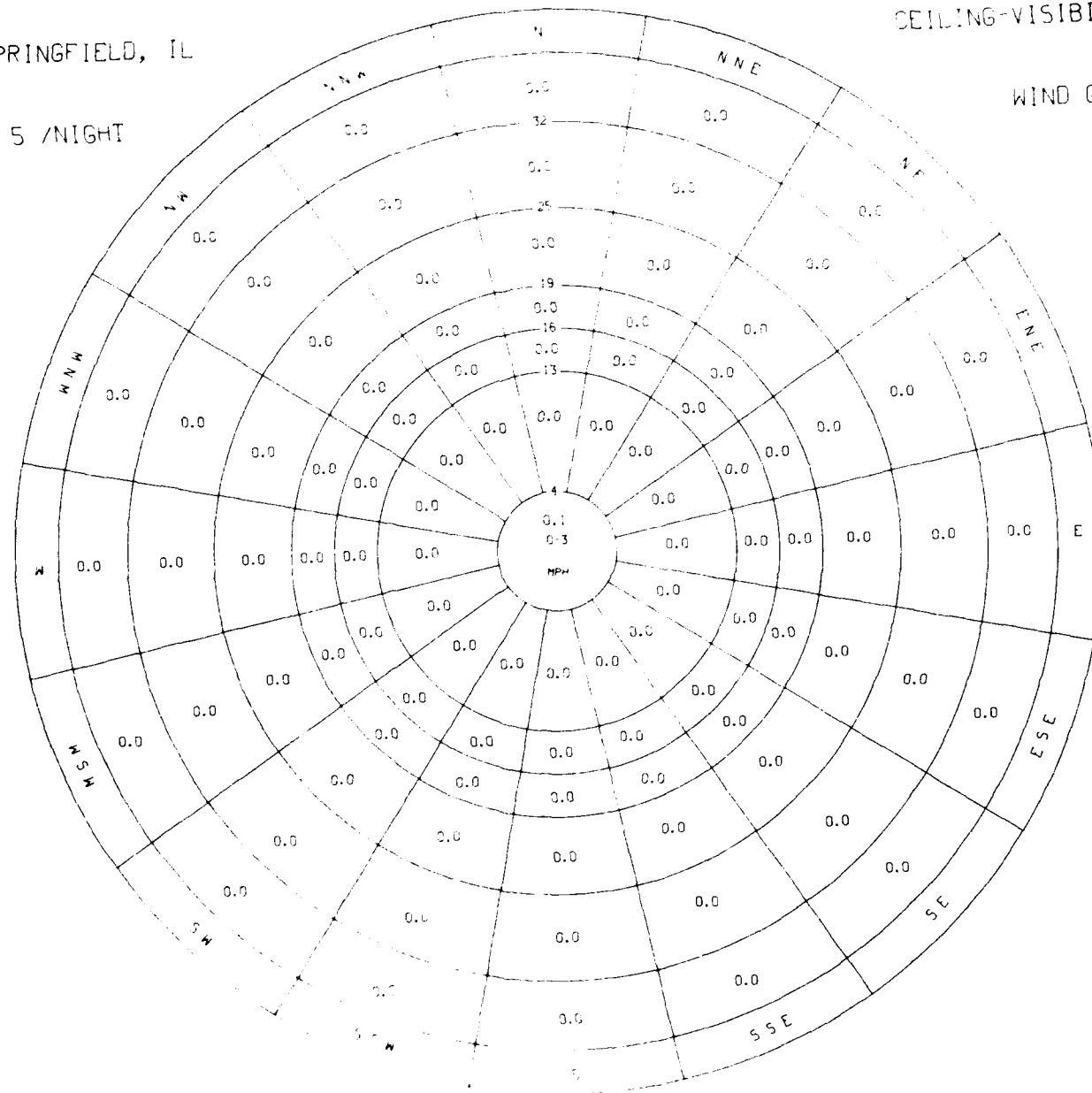
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	6.2	.0	1.2	.0	.0	.0	.6	.0	.0	.0	.0	.0	8.7	8.8
NNE	.0	1.2	.0	5.6	.0	1.2	.0	.0	.0	.0	.0	1.2	.0	.0	.0	9.3	10.9
NE	.0	1.2	.0	5.6	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.0	8.7	9.0
ENE	.0	.0	.0	4.3	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	5.6	11.2
E	.0	.6	.0	7.5	.0	2.5	.0	.0	.0	.6	.0	.0	.0	.0	.0	11.2	10.0
ESE	.0	.6	.0	5.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	9.0
SE	.0	1.2	.0	8.1	.0	2.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	12.4	9.2
SSE	.0	.0	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	2.5	10.7
S	.0	.0	.0	3.7	.0	2.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	7.5	11.5
SSW	.0	.6	.0	3.1	.0	1.2	.0	.0	.0	1.2	.0	.0	.0	.6	.0	6.8	13.3
SW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.3
WSW	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	11.0
W	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.9	17.0
WNW	.0	1.2	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.1
NW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	3.1	12.4
NNW	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.0	8.7
CALM	.0	2.5													.0	2.5	
TOTAL	.0	10.6	.2	64.0	.0	13.7	.0	4.3	.0	3.7	.0	2.5	.0	1.2	.3	100	9.7

SPI SPRINGFIELD, IL

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 93822

NO. OBS.: 226

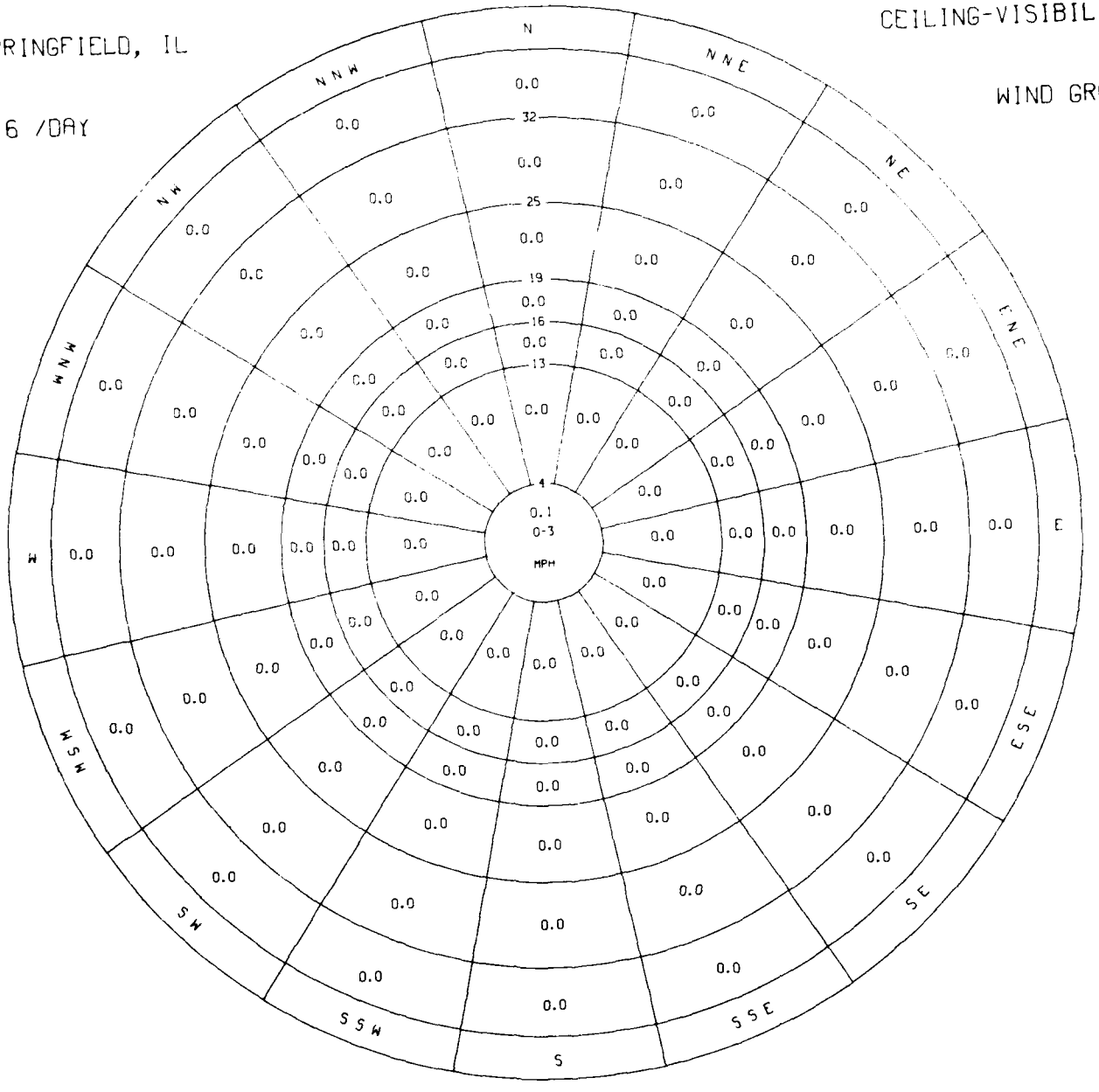
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.3	.0	4.0	.0	.4	.0	.4	.0	1.3	.0	.0	.0	.0	.0	7.5	10.5
NNE	.0	.0	.0	2.7	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	3.5	10.6
NE	.0	1.3	.0	6.2	.0	.4	.0	.0	.0	.9	.0	.0	.0	.0	.0	8.8	9.4
ENE	.0	.0	.0	4.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.3	8.1
E	.0	1.8	.0	8.0	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.1	11.5	8.8
ESE	.0	1.8	.0	6.2	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.1	9.3	8.2
SE	.0	.9	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	6.7
SSE	.0	.4	.0	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	9.1
S	.0	.9	.0	5.8	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	8.4	9.6
SSW	.0	1.8	.0	1.8	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	4.4	7.1
SW	.0	2.2	.0	3.1	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.8	6.5
WSW	.0	1.8	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	4.9
W	.0	2.2	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	5.3
WNW	.0	.4	.0	1.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.1	8.9
NW	.0	1.8	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	5.3	9.1
NNW	.0	.4	.0	3.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	8.4
CALM	.0	3.5													.0	3.5	
TOTAL	.1	22.6	.3	62.8	.0	6.6	.0	4.9	.0	2.7	.0	.0	.0	.4	.5	100	8.0

SPI SPRINGFIELD, IL

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 93822

NO. OBS.: 161

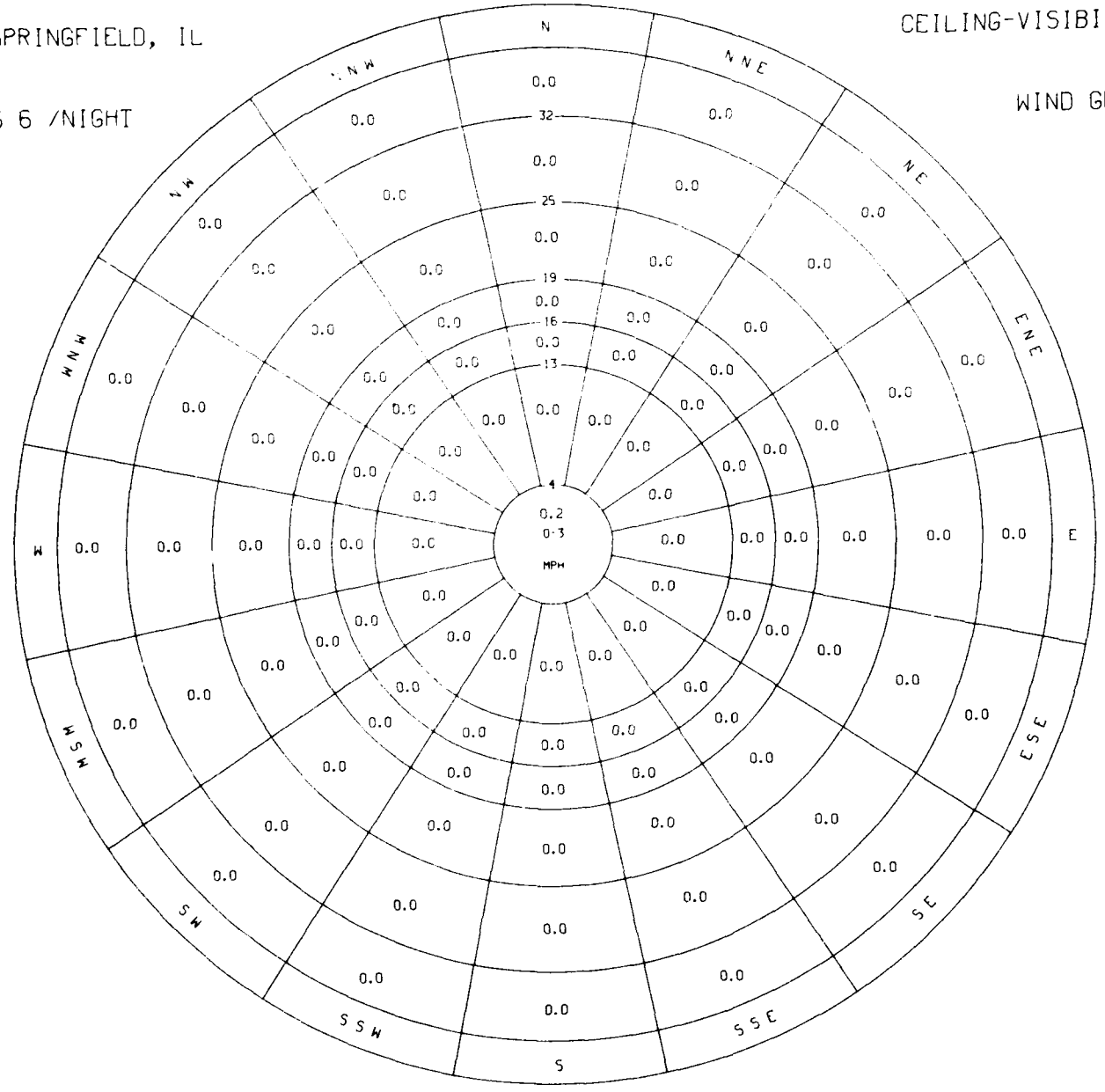
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	3.1	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	4.3	10.5
NNE	.0	1.9	.0	9.3	.0	1.2	.0	.0	.0	.6	.0	.6	.0	.0	.0	13.7	8.9
NE	.0	.6	.0	5.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	7.1
ENE	.0	1.9	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.0
E	.0	2.5	.0	5.6	.0	.6	.0	.0	.0	1.2	.0	.0	.0	.0	.0	9.9	8.1
ESE	.0	2.5	.0	6.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.3	7.4
SE	.0	1.9	.0	2.5	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.0
SSE	.0	.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	7.2
S	.0	1.2	.0	3.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	9.4
SSW	.0	.6	.0	5.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	6.9
SW	.0	1.2	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	5.2
WSW	.0	2.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.0
W	.0	2.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	4.4
WNW	.0	.6	.0	3.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	4.3	8.1
NW	.0	2.5	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	3.9
NNW	.0	.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	7.0
CALM	.0	6.2													.0	6.2	
TOTAL	.1	29.8	.2	59.6	.0	6.2	.0	.6	.0	3.1	.0	.6	.0	.0	.3	100	6.8

SPI SPRINGFIELD, IL

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SPI SPRINGFIELD, IL

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 93822

NO. OBS.: 263

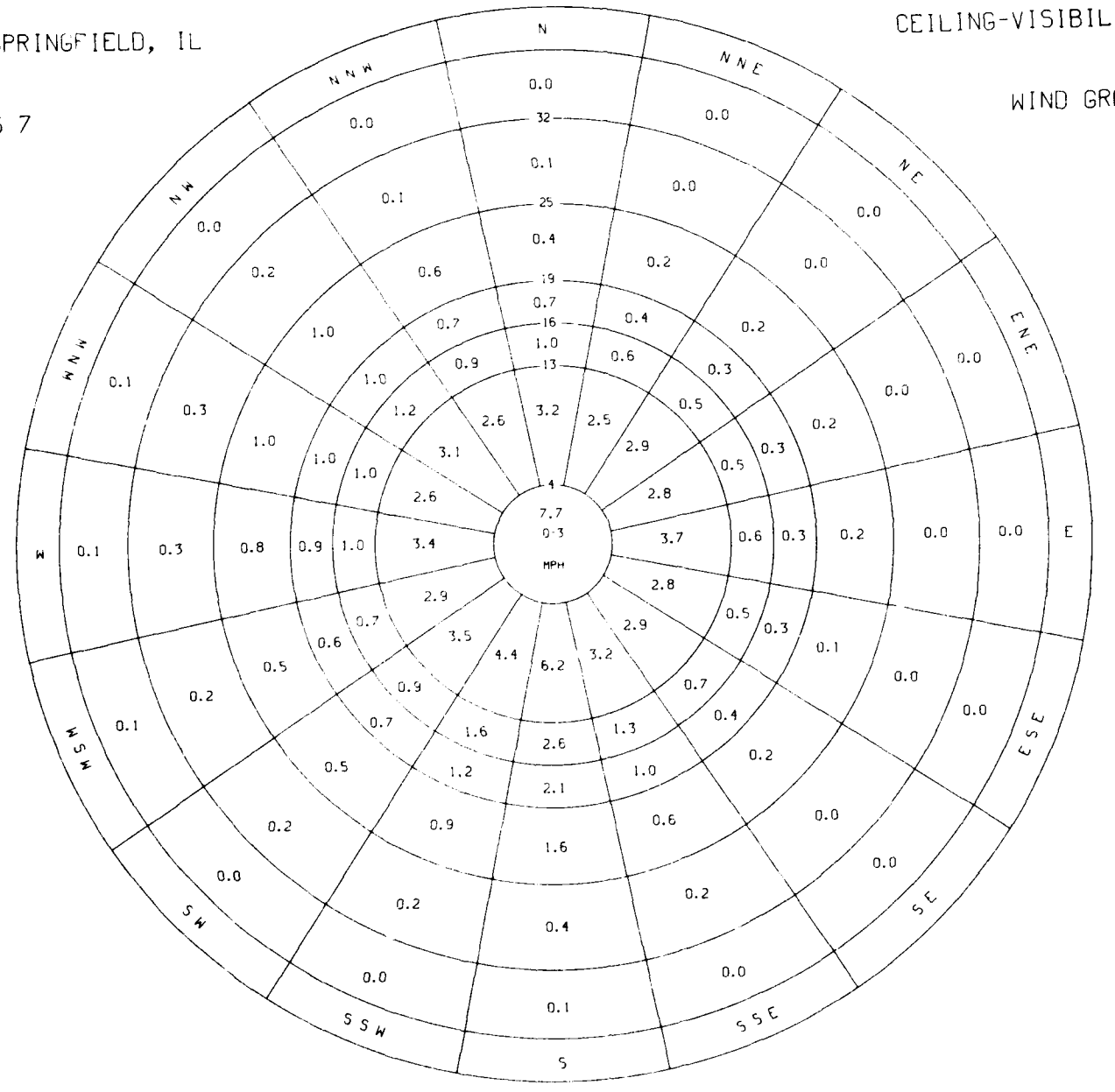
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.1	.0	2.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	4.2	7.0
NNE	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	1.9	12.0
NE	.0	1.9	.0	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	6.0
ENE	.0	1.1	.0	3.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	4.6	6.9
E	.0	1.9	.0	7.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.1	6.6
ESE	.0	.4	.0	5.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	8.1
SE	.0	1.9	.0	5.3	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	7.6	6.9
SSE	.0	.8	.0	3.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	8.9
S	.0	.0	.0	5.3	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	7.6	10.2
SSW	.0	.8	.0	7.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.7	7.3
SW	.0	3.8	.0	3.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.6	4.9
WSW	.0	2.7	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.0	5.4
W	.0	1.5	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.3
WNW	.0	.4	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.3
NW	.0	1.1	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	5.7
NNW	.0	1.1	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.6
CALM	.0	7.6													.0	7.6	
TOTAL	.2	28.1	.4	64.6	.0	4.6	.0	2.3	.0	.4	.0	.0	.0	.0	.6	100	6.4

SPI SPRINGFIELD, IL

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

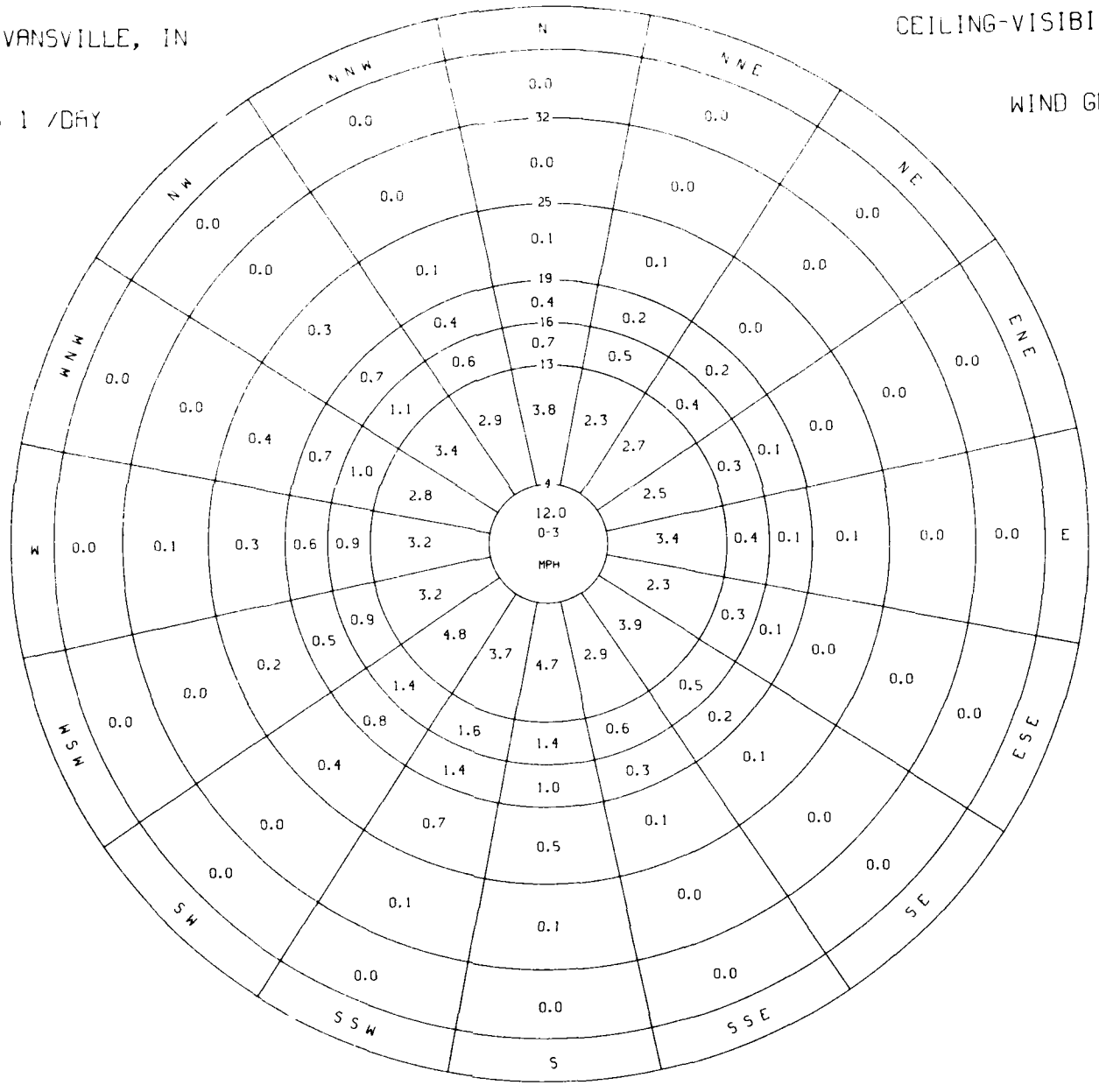


EVV EVANSVILLE, IN

CEILING-VISIBILITY

CLASS 1 /DAY

WIND GRAPH


N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
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32
0.0
0.0
25
0.1
19
0.4
16
0.7
13
12.0
0-3
MPH
4
3.8
2.3
2.7
2.5
3.4
2.3
3.9
2.9
4.7
3.7
4.8
3.2
2.8
3.4
1.0
0.9
0.7
0.6
1.1
2.9
0.4
0.7
0.3
0.0
0.1
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0.4
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0.3
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0.9
3.2
0.9
0.5
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0.0
0.0
1.4
0.8
1.6
1.4
0.6
0.3
0.1
0.0
0.0
0.4
1.4
1.0
0.7
0.5
0.1
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0.0
0.1
0.0
0.0
0.0

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 93817

NO. OBS.: 42866

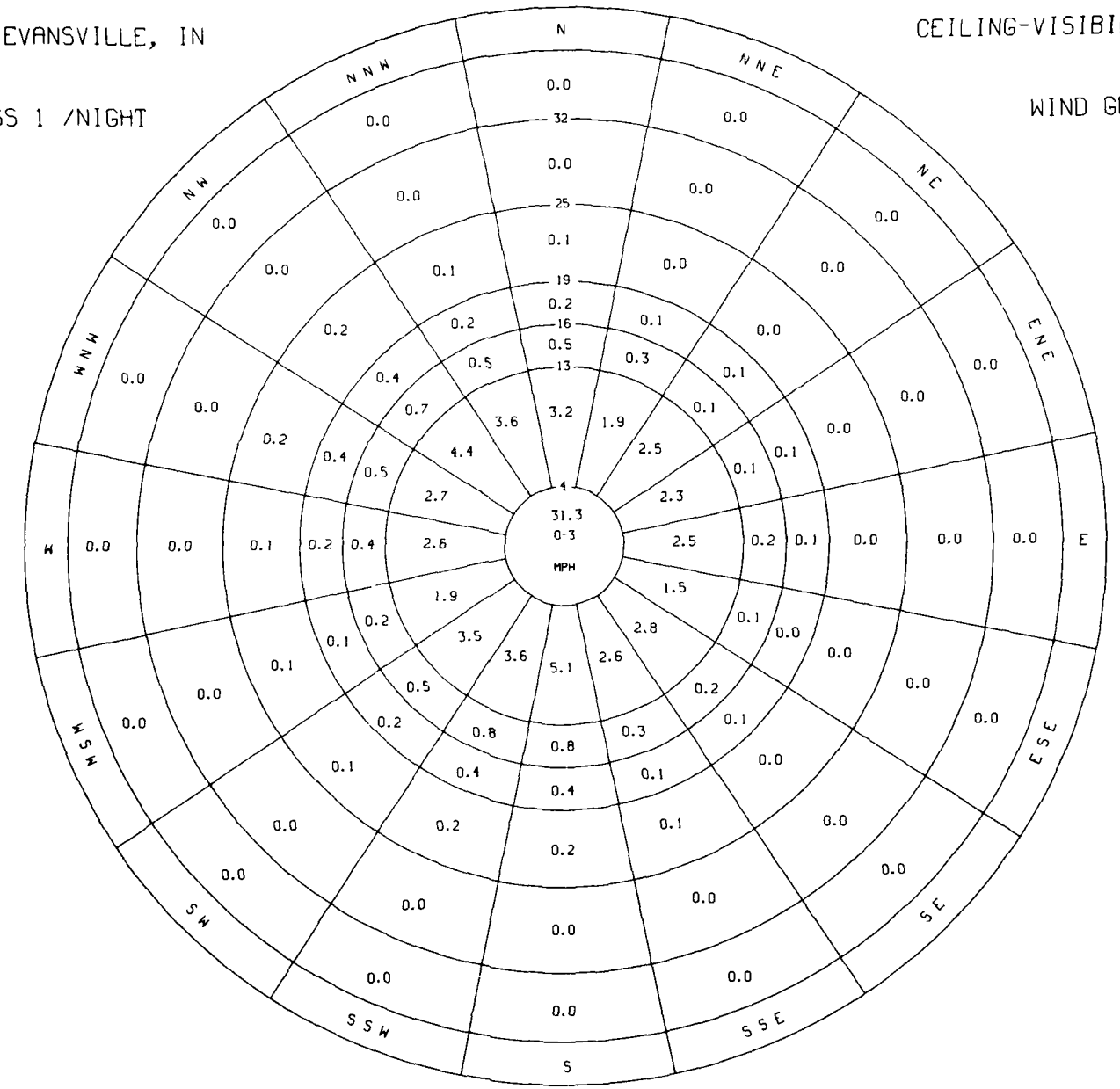
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.6	.7	3.8	4.2	.7	.8	.4	.4	.1	.1	.0	.0	.0	.0	5.6	6.3	9.2
NNE	.4	.4	2.3	2.5	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	3.4	3.8	9.4
NE	.6	.6	2.7	3.1	.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.9	4.3	8.2
ENE	.5	.5	2.5	2.8	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	3.4	3.8	8.1
E	.8	.9	3.4	3.9	.4	.5	.1	.1	.1	.1	.0	.0	.0	.0	4.9	5.5	7.8
ESE	.5	.5	2.3	2.6	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.2	3.6	7.9
SE	.7	.8	3.9	4.4	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	5.4	6.1	8.3
SSE	.4	.4	2.9	3.3	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	4.4	5.0	9.8
S	.5	.6	4.7	5.3	1.4	1.6	1.0	1.1	.5	.6	.1	.1	.0	.0	8.2	9.2	10.9
SSW	.3	.4	3.7	4.2	1.6	1.8	1.4	1.5	.7	.8	.1	.1	.0	.0	7.9	8.9	12.6
SW	.5	.6	4.8	5.4	1.4	1.6	.8	.9	.4	.4	.0	.1	.0	.0	7.9	8.9	10.7
WSW	.3	.4	3.2	3.6	.9	1.0	.5	.5	.2	.2	.0	.0	.0	.0	5.1	5.7	10.3
W	.5	.6	3.2	3.6	.9	1.0	.6	.6	.3	.3	.1	.1	.0	.0	5.5	6.2	10.4
WNW	.5	.5	2.8	3.2	1.0	1.2	.7	.8	.4	.5	.0	.1	.0	.0	5.5	6.2	11.2
NW	.9	1.0	3.4	3.9	1.1	1.2	.7	.8	.3	.3	.0	.0	.0	.0	6.4	7.2	10.1
NNW	.6	.7	2.9	3.3	.6	.7	.4	.5	.1	.1	.0	.0	.0	.0	4.7	5.3	9.4
CALM	3.4	3.9													3.4	3.9	
TOTAL	12.0	13.5	52.8	59.3	12.7	14.3	7.6	8.6	3.4	3.8	.4	.5	.0	.0	89.0	100	9.5

EVV EVANSVILLE, IN

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH


N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0.0
32
0.0
0.0
25
0.1
19
0.2
16
0.5
13
0.3
0.1
0.1
0.0
0.0
0.0

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 93817

NO. OBS.: 37562

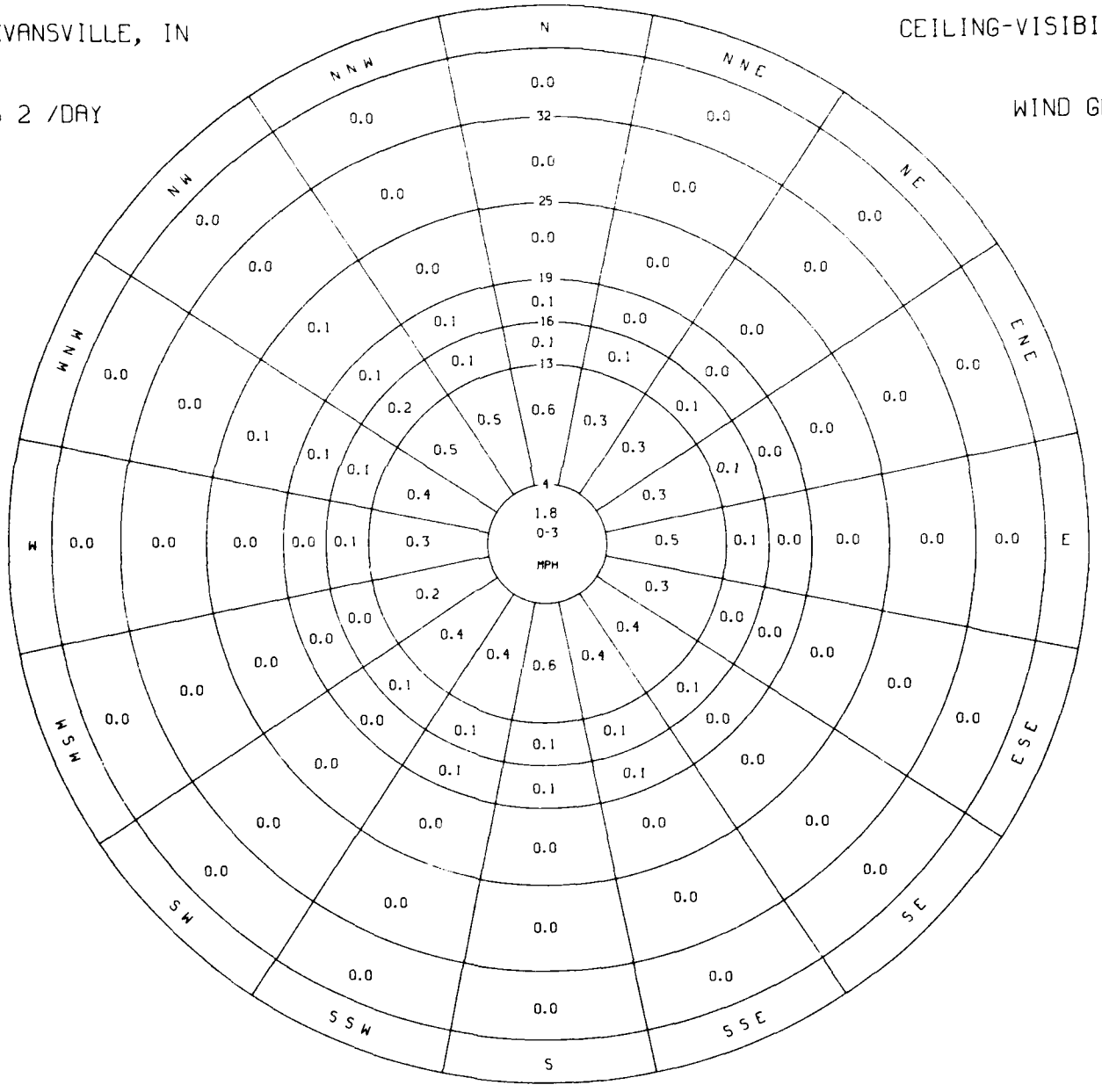
DIR	SPEED GROUPS (MPH)																TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	1.6	1.8	3.2	3.6	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	5.5	6.2	7.3
NNE	.6	.7	1.9	2.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.2	7.9
NE	1.1	1.2	2.5	2.8	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.8	4.3	6.5
ENE	.9	1.1	2.3	2.5	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	3.4	3.8	6.4
E	1.2	1.3	2.5	2.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.9	4.4	6.4
ESE	.6	.6	1.5	1.6	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	2.1	2.4	6.7
SE	1.0	1.1	2.8	3.2	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	4.1	4.7	7.0
SSE	.6	.7	2.6	2.9	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	3.8	4.3	8.3
S	.9	1.0	5.1	5.8	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	7.5	8.4	8.8
SSW	.6	.7	3.6	4.0	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	5.6	6.4	9.8
SW	.8	.9	3.5	4.0	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	5.1	5.8	8.4
WSW	.5	.6	1.9	2.2	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.9	3.3	8.1
W	.9	1.0	2.6	2.9	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	4.2	4.7	8.0
WNW	1.2	1.4	2.7	3.1	.5	.6	.4	.4	.2	.2	.0	.0	.0	.0	5.0	5.6	8.6
NW	3.2	3.7	4.4	5.0	.7	.7	.4	.4	.2	.2	.0	.0	.0	.0	8.9	10.1	6.8
NNW	2.4	2.7	3.6	4.0	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	6.8	7.7	6.8
CALM	13.1	14.8													13.1	14.8	
TOTAL	31.3	35.3	46.5	52.4	6.2	7.0	3.1	3.5	1.4	1.5	.2	.3	.0	.0	88.6	100	6.5

EVV EVANSVILLE, IN

CEILING-VISIBILITY

CLASS 2 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 93817

NO. OBS.: 5320

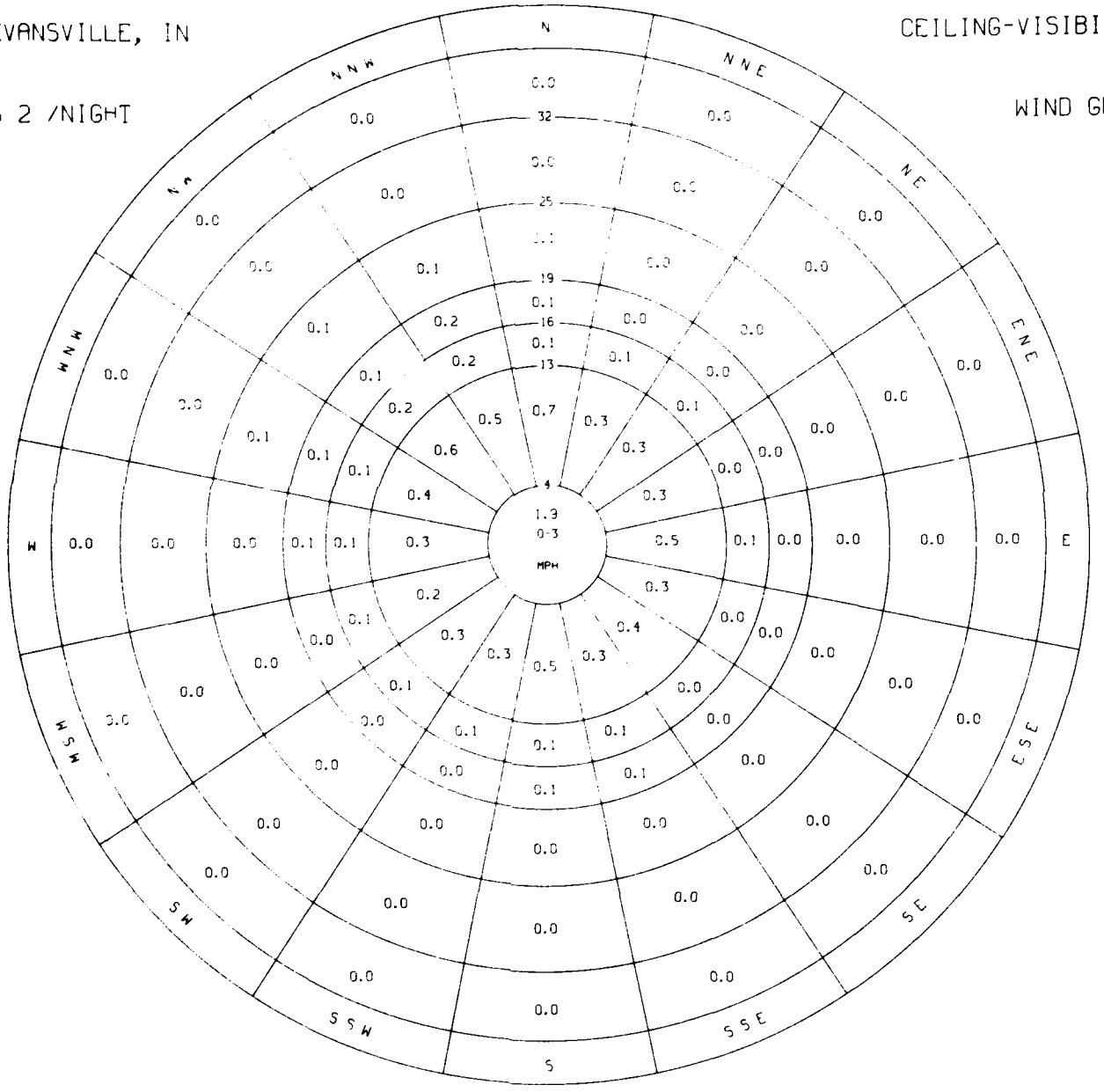
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	1.0	.6	5.2	.1	1.0	.1	1.1	.0	.2	.0	.0	.0	.0	.9	8.5	10.0
NNE	.0	.4	.3	2.4	.1	.6	.0	.3	.0	.0	.0	.0	.0	.0	.4	3.8	9.4
NE	.1	.8	.3	2.8	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.5	4.4	8.6
ENE	.1	.9	.3	3.0	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5	4.9	8.2
E	.1	.8	.5	4.9	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.7	6.8	8.7
ESE	.1	.6	.3	3.0	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	4.0	8.1
SE	.1	.9	.4	3.9	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.6	5.8	8.2
SSE	.1	.6	.4	3.3	.1	.9	.1	.5	.0	.1	.0	.0	.0	.0	.6	5.5	9.6
S	.1	.6	.6	5.1	.1	1.2	.1	1.0	.0	.3	.0	.0	.0	.0	.9	8.2	10.4
SSW	.0	.4	.4	3.3	.1	.9	.1	.8	.0	.4	.0	.1	.0	.0	.7	5.9	11.2
SW	.1	.5	.4	3.4	.1	.6	.0	.4	.0	.2	.0	.0	.0	.0	.6	5.2	9.6
WSW	.0	.3	.2	2.2	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.4	10.0
W	.0	.4	.3	2.7	.1	.7	.0	.4	.0	.3	.0	.0	.0	.1	.5	4.6	10.6
WNW	.1	.6	.4	3.5	.1	1.3	.1	.9	.1	.5	.0	.1	.0	.0	.8	6.8	11.3
NW	.1	.6	.5	4.9	.2	1.5	.1	.9	.1	.6	.0	.0	.0	.0	.9	8.5	10.9
NNW	.1	.6	.5	4.4	.1	1.2	.1	.8	.0	.4	.0	.0	.0	.0	.8	7.5	10.7
CALM	.7	6.1													.7	6.1	
TOTAL	1.8	16.2	6.4	58.1	1.4	13.0	1.0	8.6	.4	3.7	.0	.3	.0	.1	11.0	100	9.3

EVV EVANSVILLE, IN

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 93817

NO. OBS.: 4816

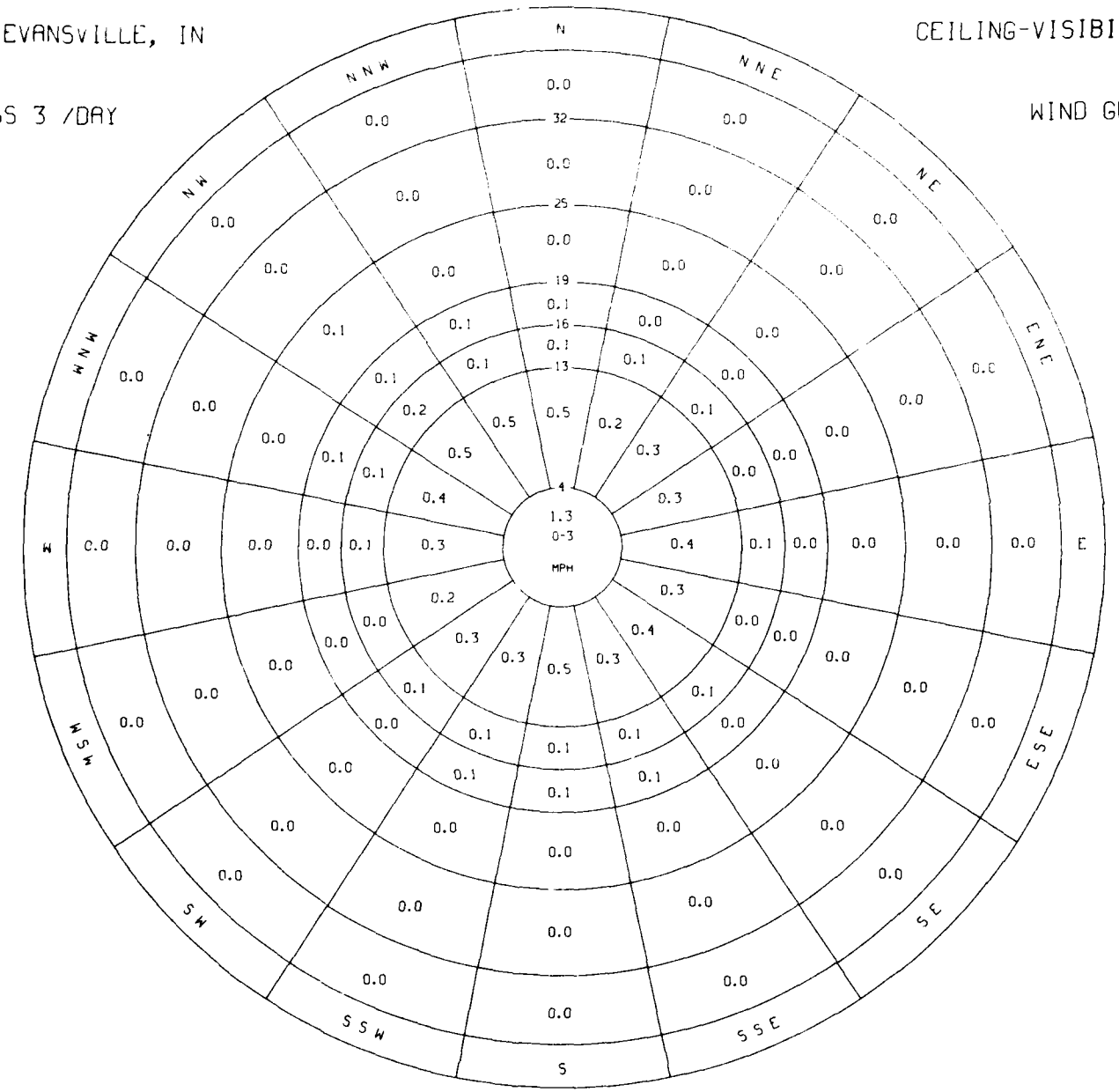
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.9	.7	6.2	.1	1.2	.1	1.0	.1	.5	.0	.1	.0	.0	1.1	9.8	10.2
NNE	.1	.5	.3	2.5	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.4	3.9	9.3
NE	.1	.6	.3	3.1	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.5	4.5	8.6
ENE	.1	.6	.3	2.6	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.4	3.8	8.2
E	.1	1.1	.5	4.3	.1	.5	.0	.3	.0	.2	.0	.0	.0	.0	.7	6.5	8.2
ESE	.1	.8	.3	2.8	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.5	4.2	7.8
SE	.1	.7	.4	3.4	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.9	8.3
SSE	.0	.4	.3	2.7	.1	.5	.1	.5	.0	.3	.0	.0	.0	.0	.5	4.3	10.4
S	.1	.7	.5	4.0	.1	1.0	.1	.6	.0	.3	.0	.0	.0	.0	.8	6.6	9.8
SSW	.0	.4	.3	2.9	.1	.9	.0	.3	.0	.1	.0	.0	.0	.0	.5	4.7	9.9
SW	.1	.5	.3	2.6	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.5	4.3	9.6
WSW	.0	.4	.2	2.0	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.4	10.1
W	.1	.7	.3	2.9	.1	.6	.1	.6	.0	.4	.0	.1	.0	.0	.6	5.1	10.2
WNW	.1	.5	.4	3.8	.1	1.3	.1	.9	.1	.5	.0	.2	.0	.0	.8	7.1	11.5
NW	.1	.7	.6	5.7	.2	2.2	.1	1.2	.1	.9	.0	.1	.0	.0	1.2	10.8	11.3
NNW	.1	.7	.5	4.6	.2	1.9	.2	1.3	.1	.5	.0	.1	.0	.0	1.0	9.1	11.5
CALM	.8	7.0													.8	7.0	
TOTAL	1.9	17.1	6.4	56.0	1.5	13.4	1.0	8.6	.5	4.3	.1	.7	.0	.0	11.4	100	9.2

EVV EVANSVILLE, IN

CEILING-VISIBILITY

CLASS 3 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 93817

NO. OBS.: 4628

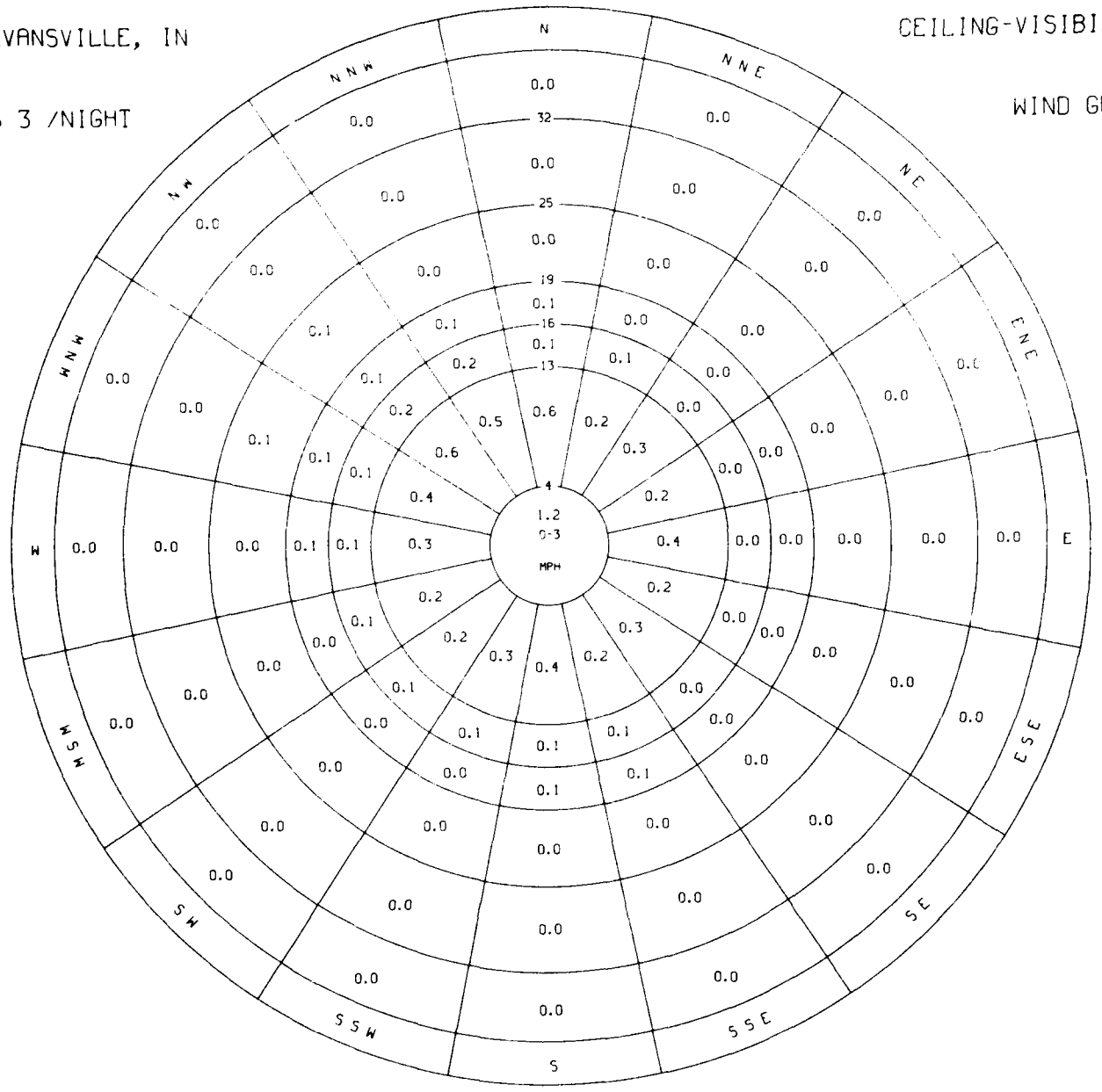
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.8	.5	5.1	.1	1.1	.1	1.1	.0	.3	.0	.0	.0	.0	.8	8.4	10.3
NNE	.0	.3	.2	2.5	.1	.6	.0	.4	.0	.0	.0	.0	.0	.0	.4	3.9	9.7
NE	.1	.6	.3	2.8	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.4	4.3	9.0
ENE	.1	.7	.3	3.0	.0	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5	4.7	8.6
E	.1	.7	.4	4.6	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.6	6.5	8.9
ESE	.0	.5	.3	2.7	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	3.7	8.4
SE	.1	.8	.4	3.8	.1	.7	.0	.3	.0	.0	.0	.0	.0	.0	.5	5.6	8.6
SSE	.0	.5	.3	3.2	.1	.9	.1	.6	.0	.1	.0	.0	.0	.0	.5	5.4	10.0
S	.1	.5	.5	5.0	.1	1.3	.1	1.2	.0	.3	.0	.0	.0	.0	.8	8.4	10.8
SSW	.0	.4	.3	3.4	.1	1.0	.1	.9	.0	.4	.0	.1	.0	.0	.6	6.3	11.5
SW	.0	.5	.3	3.5	.1	.6	.0	.5	.0	.3	.0	.0	.0	.0	.5	5.3	9.9
WSW	.0	.2	.2	2.3	.0	.4	.0	.4	.0	.2	.0	.0	.0	.0	.3	3.5	10.2
W	.0	.3	.3	2.8	.1	.8	.0	.5	.0	.3	.0	.0	.0	.0	.5	4.8	10.7
WNW	.1	.6	.4	3.7	.1	1.5	.1	1.0	.0	.5	.0	.1	.0	.0	.7	7.4	11.4
NW	.1	.6	.5	5.2	.2	1.6	.1	.9	.1	.6	.0	.0	.0	.0	.9	8.9	11.0
NNW	.0	.5	.5	4.8	.1	1.3	.1	.9	.0	.5	.0	.0	.0	.0	.8	7.9	10.9
CALM	.5	5.0													.5	5.0	
TOTAL	1.3	13.6	5.6	58.6	1.3	14.0	.9	9.5	.4	4.0	.0	.4	.0	.1	9.6	100	9.6

EVV EVANSVILLE, IN

CEILING-VISIBILITY

CLASS 3 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 93817

NO. OBS.: 3957

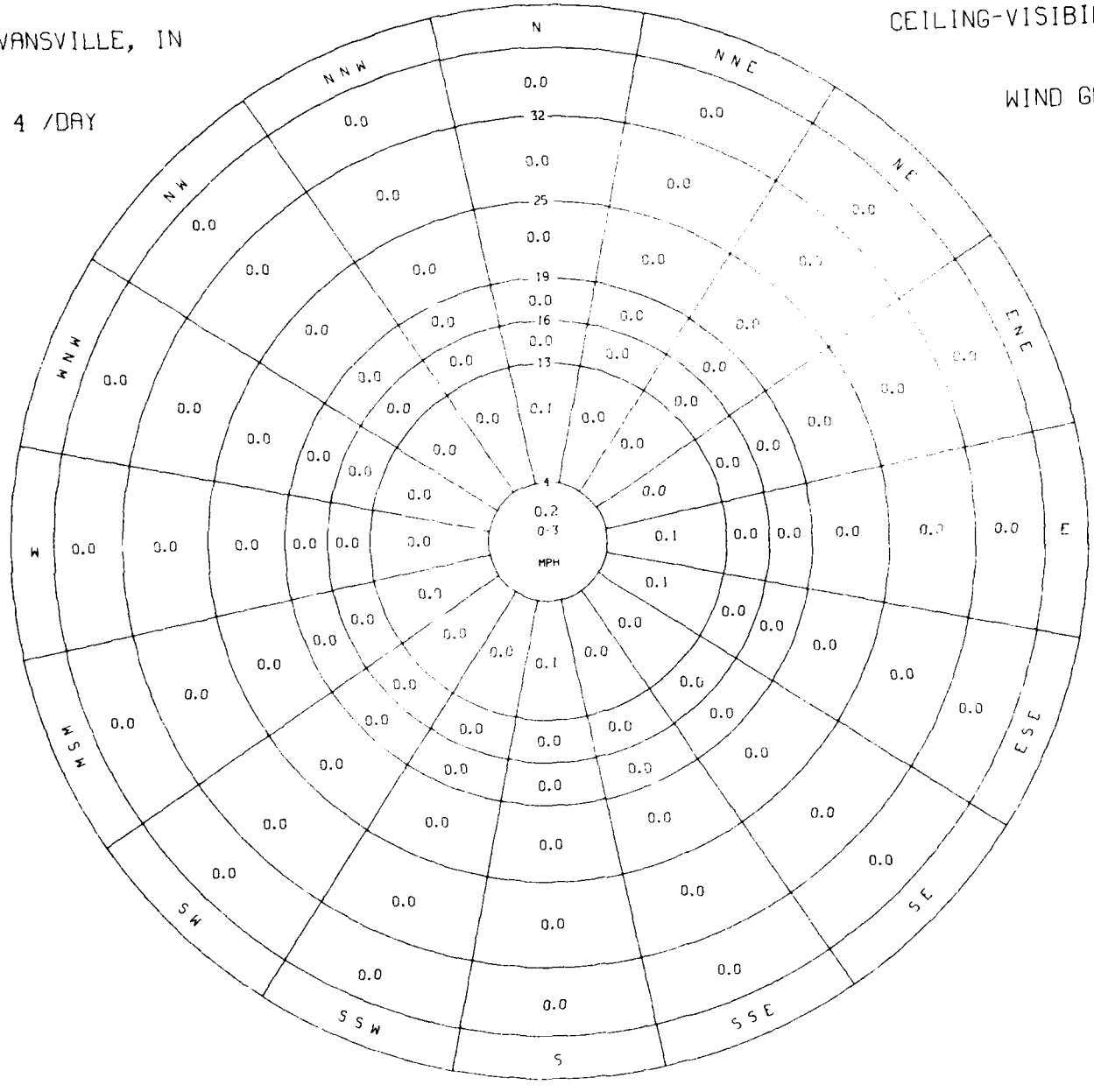
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.7	.6	6.4	.1	1.3	.1	1.1	.0	.5	.0	.1	.0	.0	.9	10.2	10.6
NNE	.0	.4	.2	2.5	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.4	4.0	9.8
NE	.0	.5	.3	3.0	.0	.5	.0	.3	.0	.1	.0	.0	.0	.0	.4	4.3	8.8
ENE	.0	.4	.2	2.4	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.3	3.5	8.9
E	.1	1.0	.4	3.9	.0	.5	.0	.4	.0	.2	.0	.1	.0	.0	.6	6.0	8.7
ESE	.0	.5	.2	2.7	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.3	3.7	8.3
SE	.0	.5	.3	3.0	.0	.4	.0	.4	.0	.1	.0	.0	.0	.0	.4	4.5	9.2
SSE	.0	.3	.2	2.3	.1	.6	.1	.6	.0	.4	.0	.0	.0	.0	.4	4.2	11.2
S	.1	.7	.4	3.8	.1	1.3	.1	.7	.0	.4	.0	.0	.0	.0	.6	6.7	10.4
SSW	.0	.3	.3	3.2	.1	.9	.0	.4	.0	.2	.0	.0	.0	.0	.5	5.0	10.3
SW	.0	.3	.2	2.6	.1	.8	.0	.5	.0	.1	.0	.0	.0	.0	.4	4.3	10.3
WSW	.0	.3	.2	2.2	.1	.7	.0	.3	.0	.2	.0	.1	.0	.0	.3	3.7	10.5
W	.1	.7	.3	3.0	.1	.7	.1	.6	.0	.4	.0	.1	.0	.0	.5	5.6	10.6
WNW	.0	.5	.4	4.3	.1	1.5	.1	1.1	.1	.6	.0	.2	.0	.0	.8	8.1	11.4
NW	.1	.6	.6	5.9	.2	2.6	.1	1.4	.1	1.1	.0	.1	.0	.0	1.1	11.6	11.8
NNW	.0	.5	.5	4.9	.2	2.1	.1	1.5	.0	.5	.0	.1	.0	.0	.9	9.7	11.8
CALM	.5	4.9													.5	4.9	
TOTAL	1.2	13.1	5.2	56.1	1.4	15.2	.9	10.0	.5	4.9	.1	.7	.0	.1	9.3	100	9.9

EVV EVANSVILLE, IN

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 93817

NO. OBS.: 461

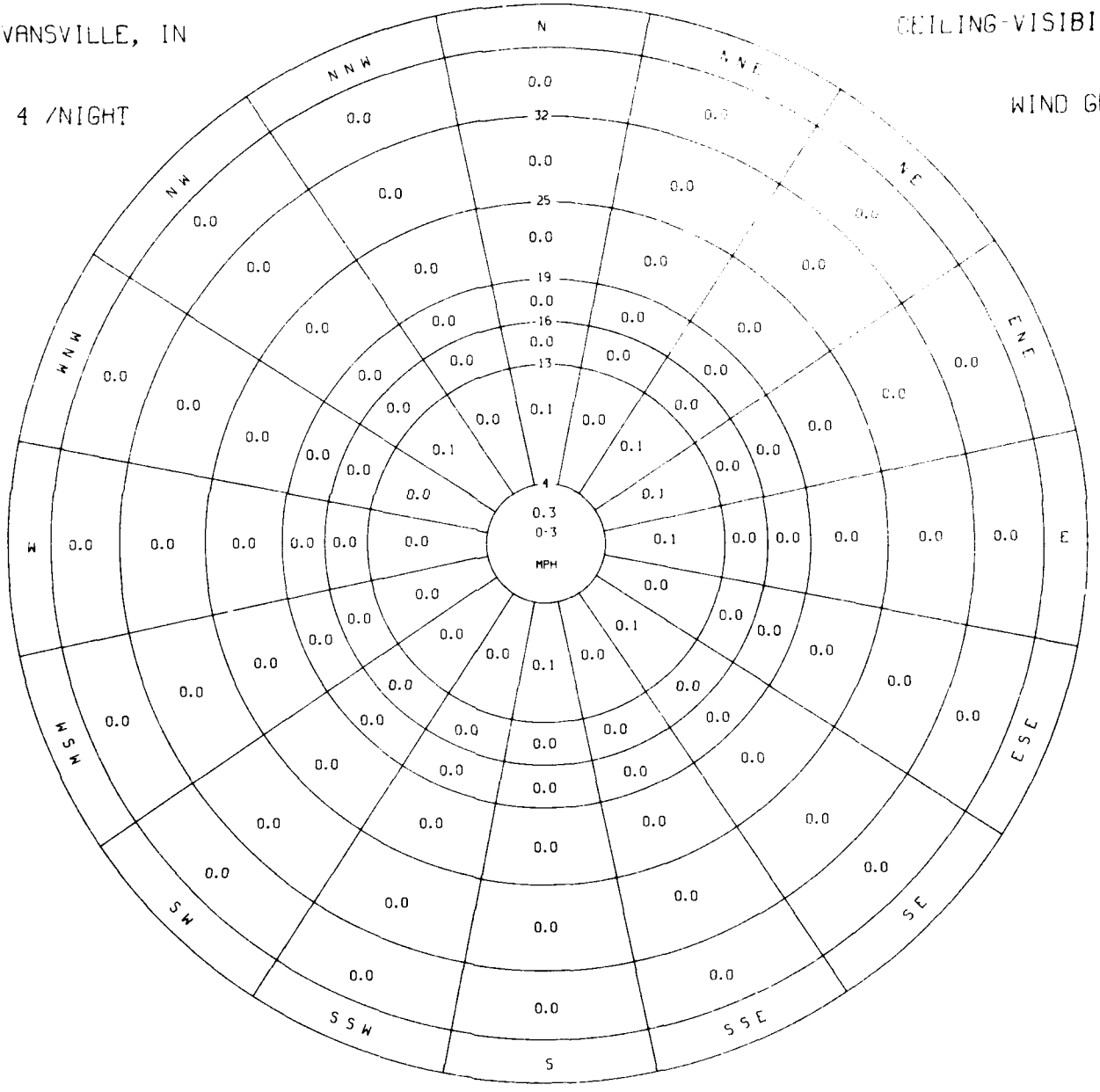
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.5	.1	7.4	.0	.9	.0	1.3	.0	.2	.0	.0	.0	.0	.1	11.3	9.6
NNE	.0	.7	.0	2.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.9
NE	.0	1.7	.0	2.8	.0	.4	.0	.0	.0	.2	.0	.0	.0	.0	.0	5.2	6.9
ENE	.0	1.5	.0	2.6	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	4.8	6.8
E	.0	1.1	.1	7.4	.0	.9	.0	.0	.0	.2	.0	.0	.0	.0	.1	9.5	7.9
ESE	.0	1.1	.1	6.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.4	7.4
SE	.0	2.2	.0	4.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.2	6.2
SSE	.0	1.5	.0	3.7	.0	.9	.0	.0	.0	.2	.0	.0	.0	.0	.1	6.3	7.6
S	.0	.4	.1	6.1	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	7.2	7.8
SSW	.0	.9	.0	2.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.9	7.1
SW	.0	.7	.0	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	7.4
WSW	.0	.4	.0	2.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	8.5
W	.0	.9	.0	2.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	.0	3.3	8.2
WNW	.0	.7	.0	2.0	.0	.0	.0	.4	.0	.7	.0	.0	.0	.0	.0	3.7	9.8
NW	.0	.7	.0	3.0	.0	1.3	.0	1.3	.0	.2	.0	.0	.0	.0	.1	6.5	11.0
NNW	.0	.9	.0	2.4	.0	.9	.0	.4	.0	.4	.0	.0	.0	.0	.0	5.0	10.3
CALM	.1	8.2													.1	8.2	
TOTAL	.2	24.9	.6	59.7	.1	8.7	.0	4.1	.0	2.4	.0	.0	.0	.2	1.0	100	7.5

EVV EVANSVILLE, IN

CEILING-VISIBILITY

CLASS 4 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 93817

NO. OBS.: 513

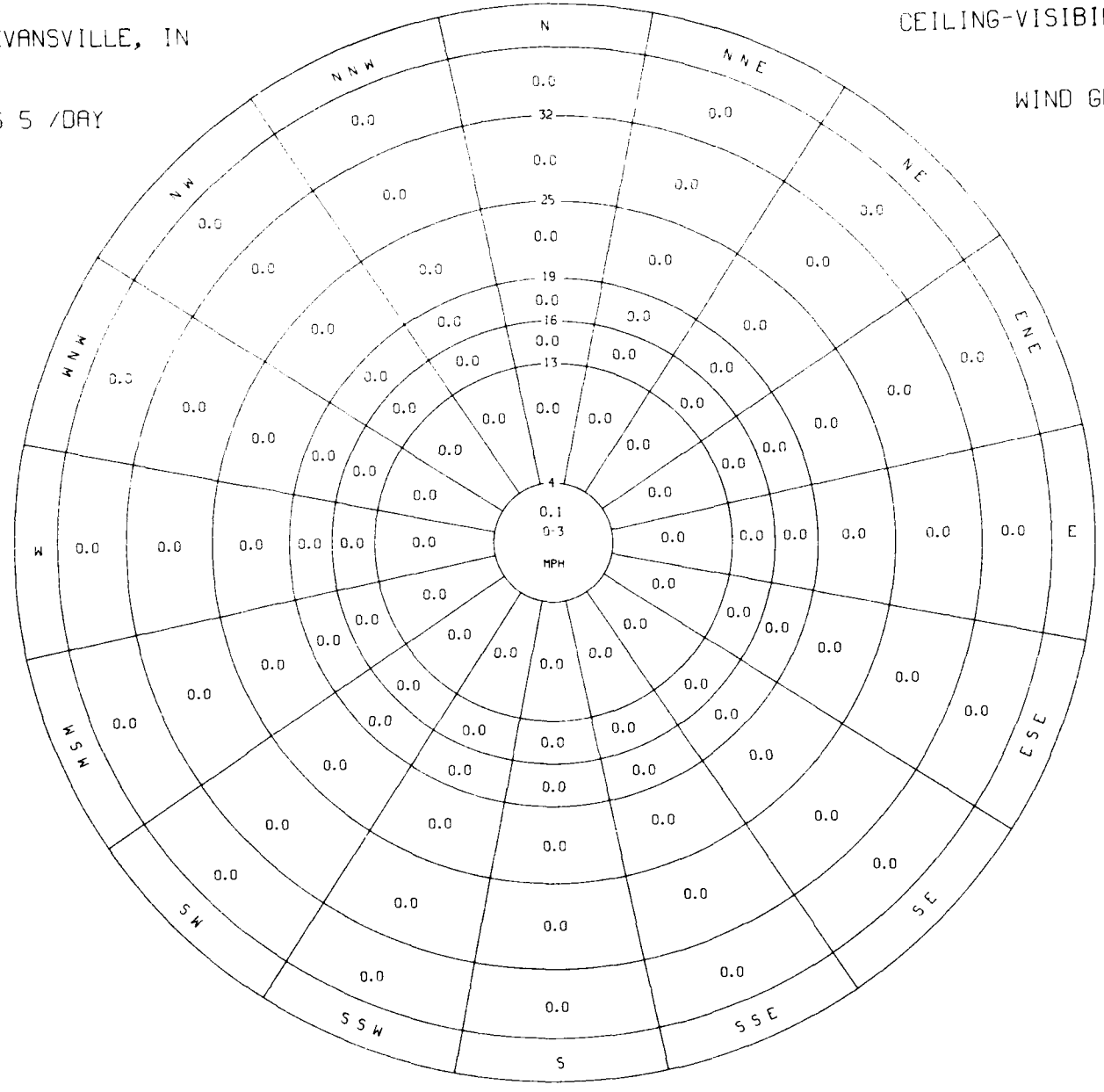
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.2	.1	6.8	.0	.8	.0	.8	.0	.4	.0	.0	.0	.0	.1	9.9	9.1
NNE	.0	.6	.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	6.9
NE	.0	.8	.1	4.9	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.8	8.3
ENE	.0	.8	.1	4.5	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	5.8	7.3
E	.0	1.4	.1	5.1	.0	.6	.0	.0	.0	.4	.0	.0	.0	.0	.1	7.4	7.7
ESE	.0	1.6	.0	3.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.4	7.4
SE	.0	1.2	.1	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.6	6.5
SSE	.0	.6	.0	3.3	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	4.1	7.5
S	.0	1.2	.1	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.0	6.4
SSW	.0	.8	.0	2.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	7.8
SW	.0	1.0	.0	3.1	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1	4.5	6.9
WSW	.0	.4	.0	1.9	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.9	7.9
W	.0	.8	.0	2.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.5	6.9
WNW	.0	.6	.0	1.8	.0	.4	.0	.0	.0	.6	.0	.4	.0	.0	.0	3.7	12.1
NW	.0	1.4	.1	4.9	.0	.6	.0	.4	.0	.2	.0	.0	.0	.0	.1	7.4	8.3
NNW	.0	1.4	.0	3.5	.0	1.0	.0	1.0	.0	.4	.0	.2	.0	.0	.1	7.4	9.6
CALM	.1	9.2													.1	9.2	
TOTAL	.3	24.6	.8	62.6	.1	7.2	.0	3.1	.0	1.9	.0	.6	.0	.0	1.2	100	7.2

EVV EVANSVILLE, IN

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 93817

NO. OBS.: 111

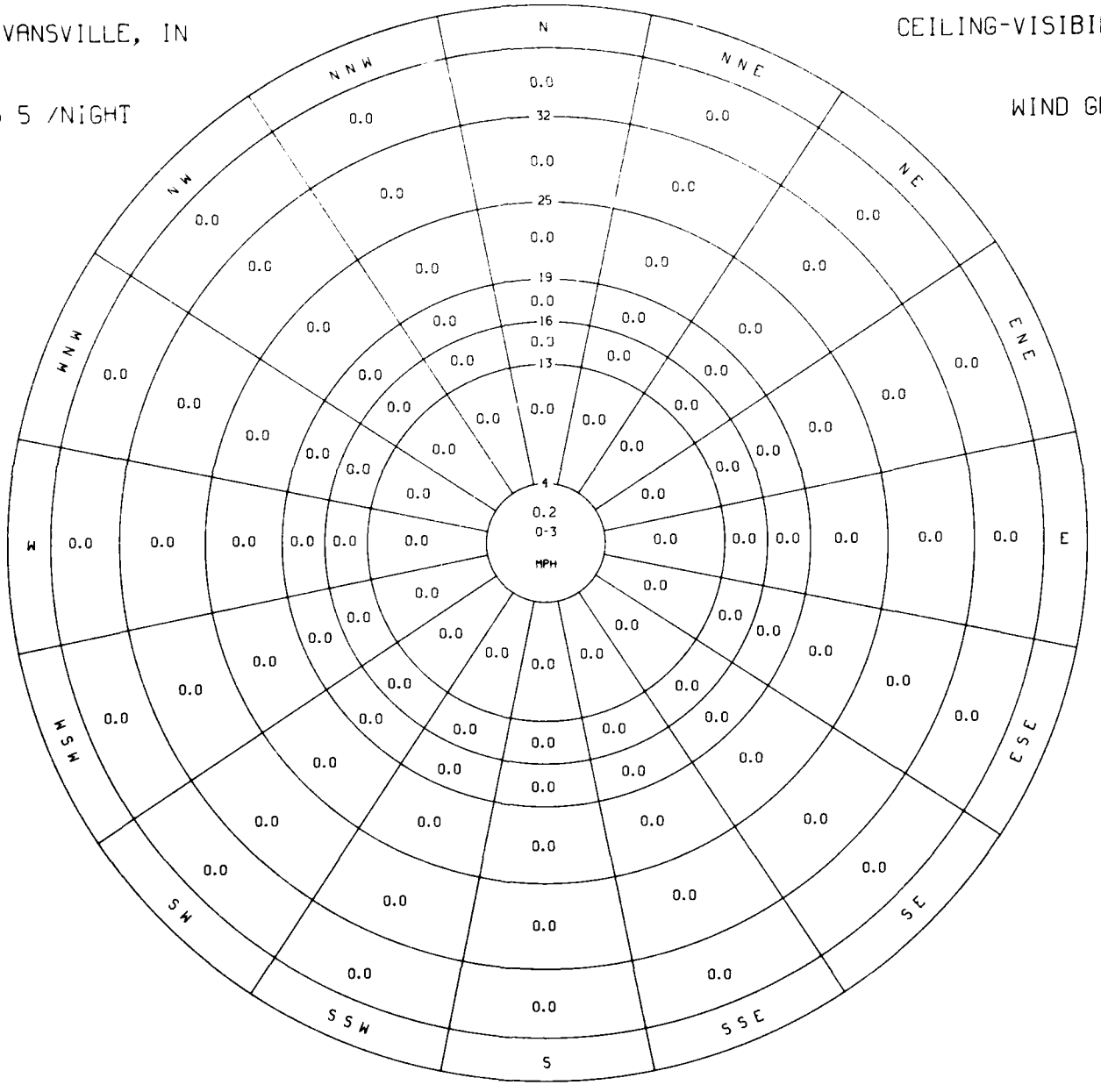
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	5.4	.0	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	4.9
NNE	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	3.3
NE	.0	1.8	.0	3.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.9
ENE	.0	4.5	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	4.9
E	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.0
ESE	.0	.9	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.7
SE	.0	1.8	.0	7.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.9	6.6
SSE	.0	.9	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	6.9
S	.0	.0	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	7.4
SSW	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	8.5
SW	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.5
WSW	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.0
W	.0	.0	.0	2.7	.0	.0	.0	.0	.0	.9	.0	.9	.0	.0	.0	4.5	14.4
WNW	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.0
NW	.0	.9	.0	1.8	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	3.6	10.2
NNW	.0	1.8	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.0
CALM	.0	20.7													.0	20.7	
TOTAL	.1	42.3	.1	51.4	.0	3.6	.0	.0	.0	1.8	.0	.9	.0	.0	.2	100	5.4

EVV EVANSVILLE, IN

CEILING-VISIBILITY

CLASS 5 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 93817

NO. OBS.: 135

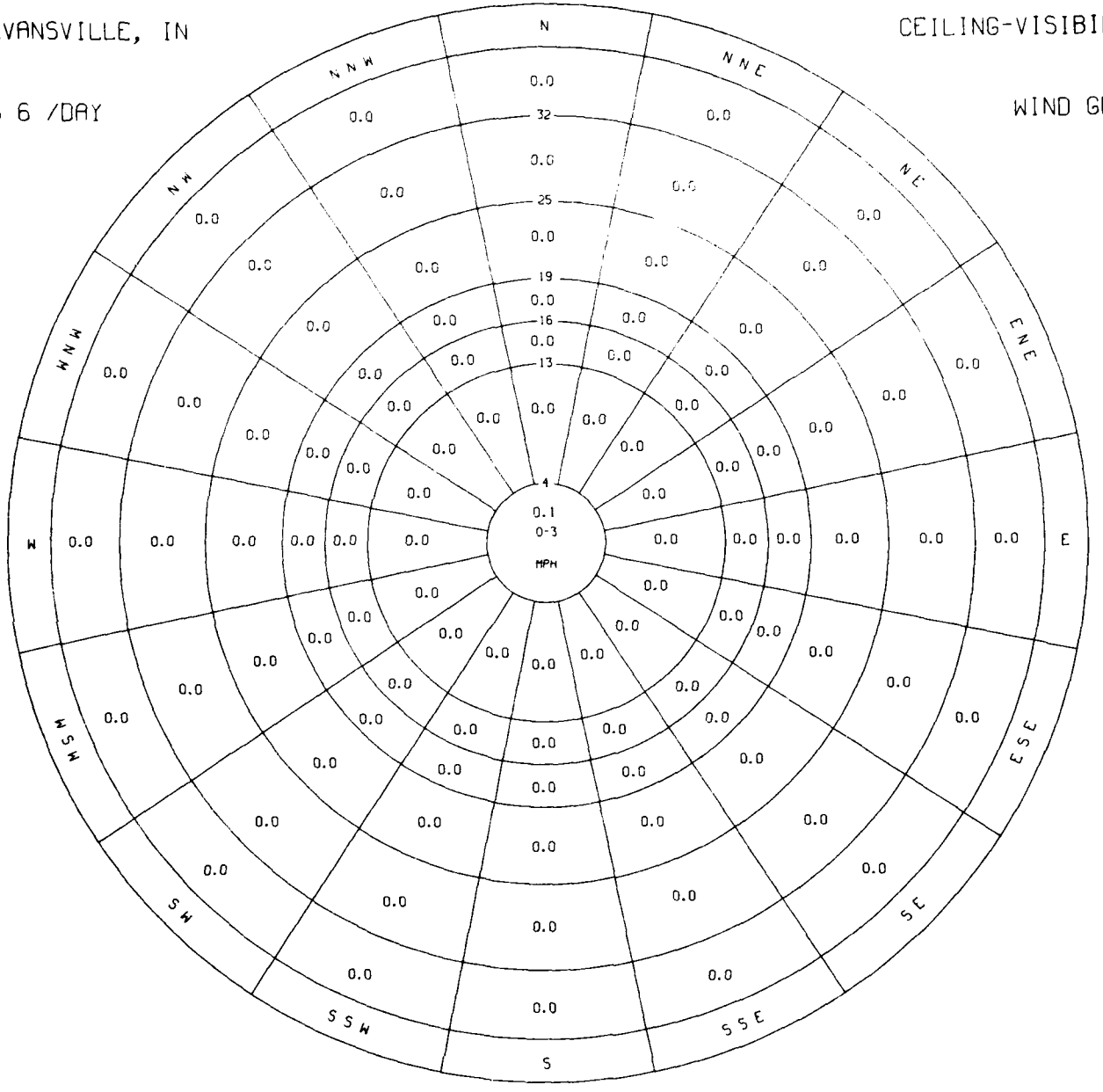
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	3.0	.0	3.7	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	8.1	7.5
NNE	.0	.0	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	8.3
NE	.0	2.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	5.0
ENE	.0	2.2	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	4.2
E	.0	3.7	.0	8.1	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	12.6	6.6
ESE	.0	3.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	3.8
SE	.0	.7	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	5.8
SSE	.0	.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	8.6
S	.0	.7	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.5
SSW	.0	.7	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	8.3
SW	.0	3.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	4.3
WSW	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	4.0
W	.0	2.2	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	3.8
WNW	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.7	18.0
NW	.0	2.2	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	6.0
NNW	.0	1.5	.0	5.2	.0	.7	.0	.0	.0	.7	.0	.7	.0	.0	.0	8.9	10.2
CALM	.1	20.7													.1	20.7	
TOTAL	.2	47.4	.1	45.9	.0	3.0	.0	.7	.0	2.2	.0	.7	.0	.0	.3	100	5.3

EVV EVANSVILLE, IN

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 93817

NO. OBS.: 120

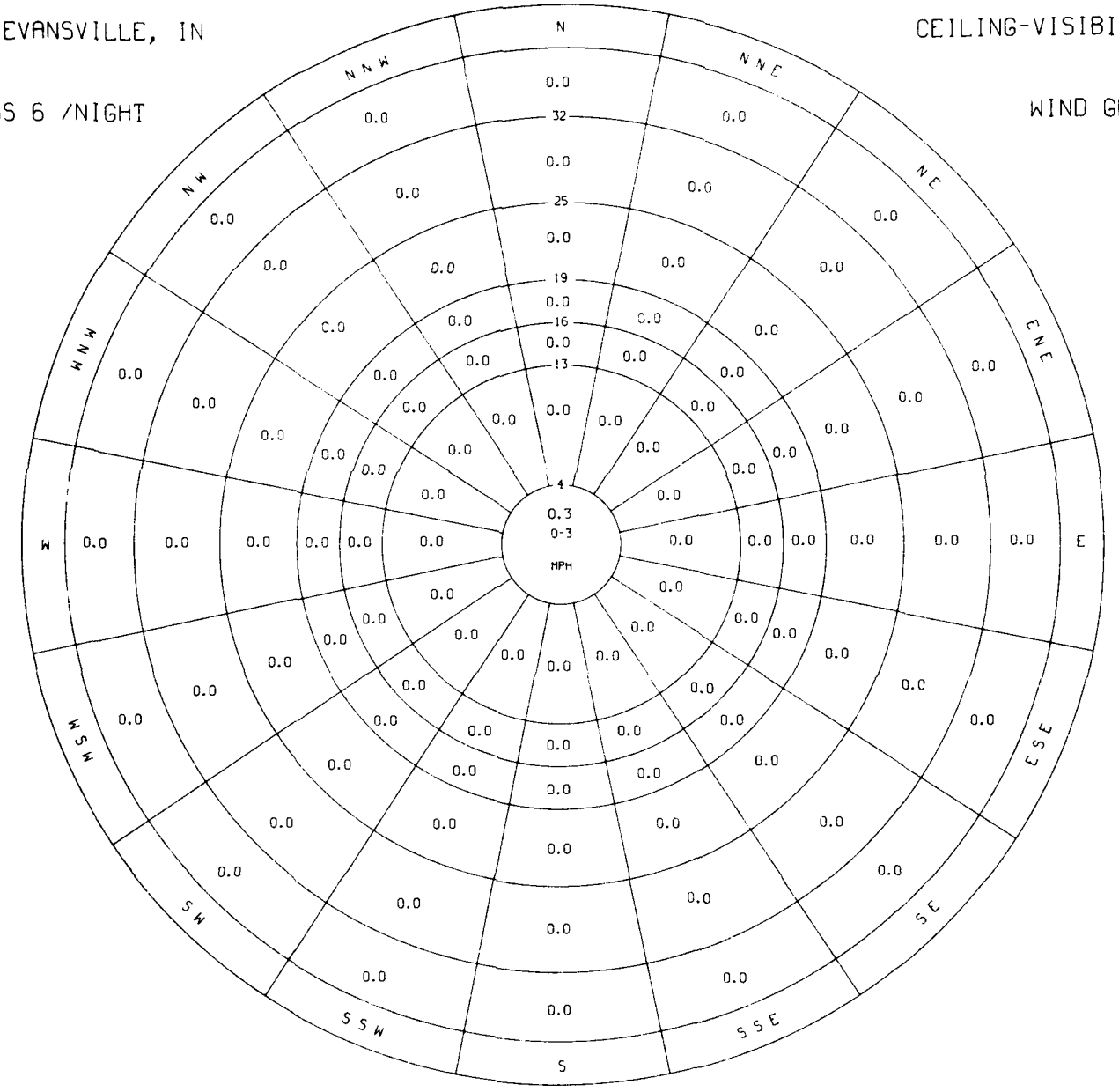
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	2.5	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	3.8
NNE	.0	1.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.0
NE	.0	3.3	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	3.8
ENE	.0	3.3	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	4.7
E	.0	2.5	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.2	5.5
ESE	.0	.8	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.3
SE	.0	2.5	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	5.0
SSE	.0	3.3	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	4.1
S	.0	3.3	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	5.3
SSW	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	8.7
SW	.0	1.7	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.5
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.5	11.3
WNW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	5.0
NW	.0	2.5	.0	1.7	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	5.0	6.8
NNW	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	2.8
CALM	.1	26.7													.1	26.7	
TOTAL	.1	58.3	.1	40.0	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.0	.2	100	3.8

EVV EVANSVILLE, IN

CEILING-VISIBILITY

CLASS 6 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: EVV EVANSVILLE, IN

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 93817

NO. OBS.: 211

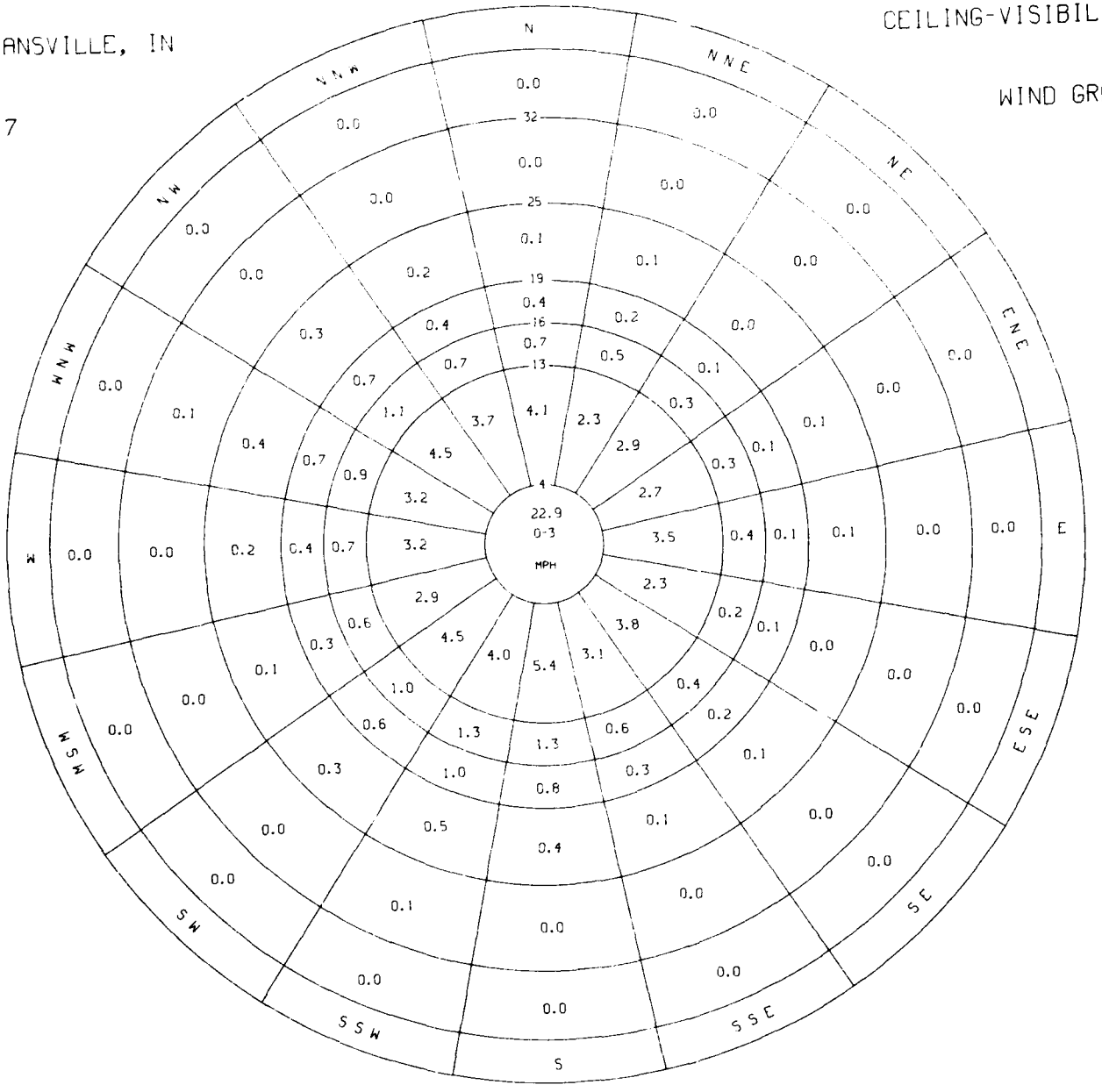
DIR	SPEED GROUPS (MPH)																TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	1.4	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8			4.7
NNE	.0	1.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9			2.7
NE	.0	1.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4			4.6
ENE	.0	2.4	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3			4.2
E	.0	1.9	.0	7.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.5			4.9
ESE	.0	2.4	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1			5.1
SE	.0	3.8	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5			4.5
SSE	.0	.9	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.6			6.3
S	.0	1.4	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2			6.2
SSW	.0	1.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4			4.4
SW	.0	.9	.0	1.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3			7.0
WSW	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5			3.0
W	.0	.5	.0	1.4	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.4			8.2
WNW	.0	.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4			5.0
NW	.0	1.4	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2			4.7
NNW	.0	.9	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3			4.9
CALM	.2	31.3													.2	31.3			
TOTAL	.3	54.5	.2	44.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.5	100			3.6

EVV EVANSVILLE, IN

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

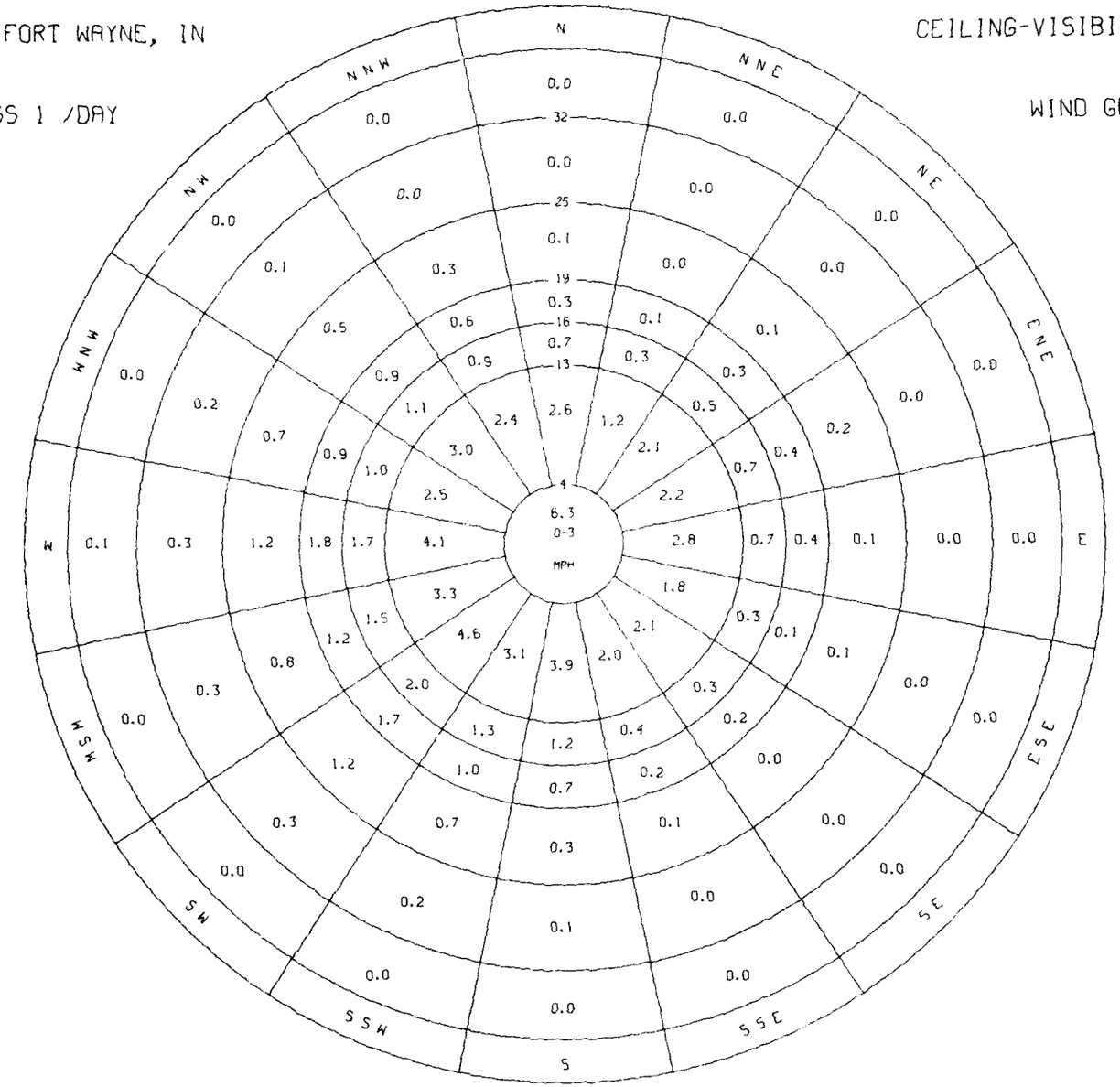


FWA FORT WAYNE, IN

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



REPRODUCED FROM BEST AVAILABLE COPY

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 14827

NO. OBS.: 40950

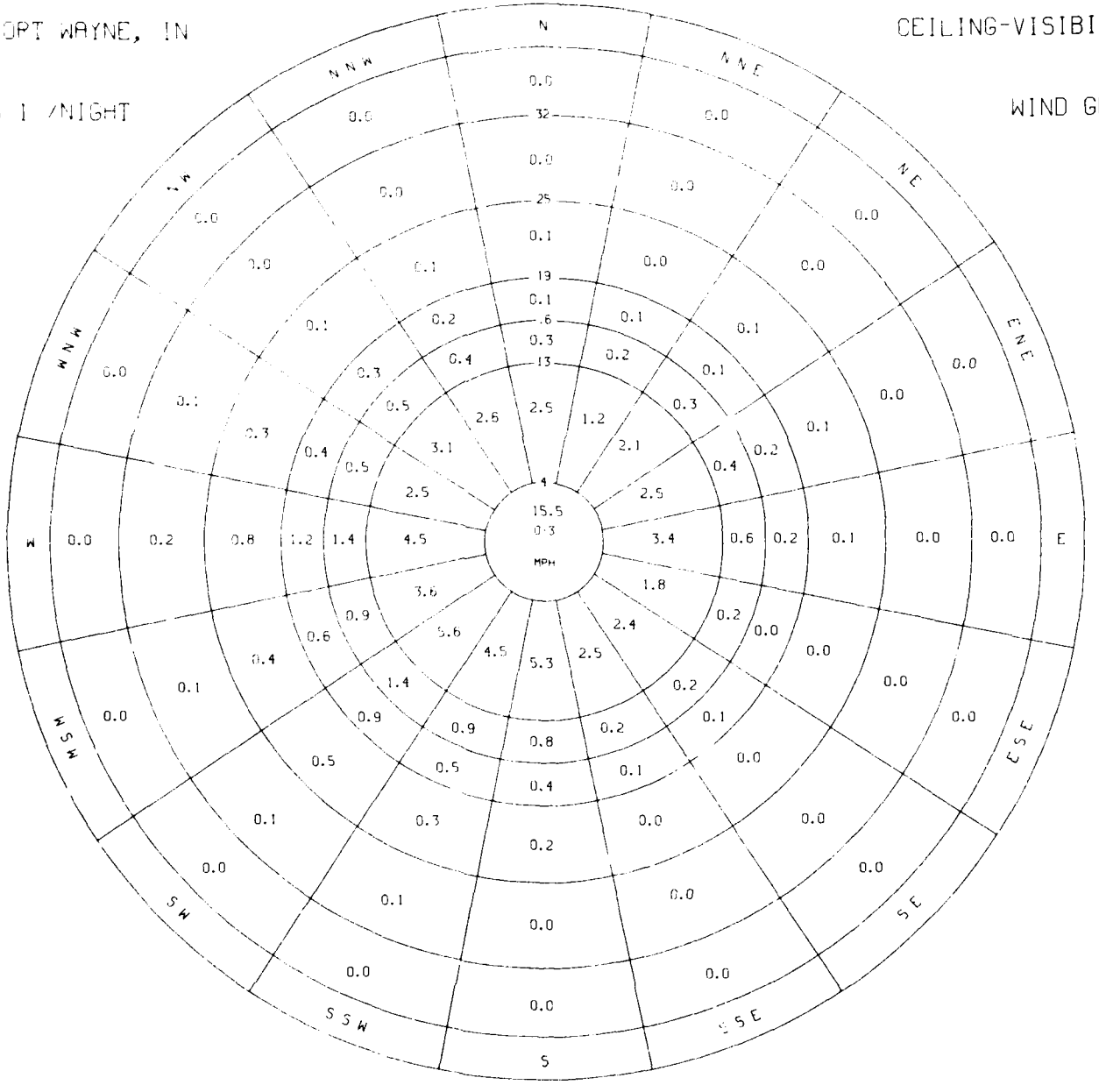
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.4	2.6	3.1	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	4.0	4.8	9.9
NNE	.2	.2	1.2	1.5	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	1.9	2.2	9.6
NE	.4	.4	2.1	2.6	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.4	4.0	9.6
ENE	.2	.2	2.2	2.7	.7	.8	.4	.5	.2	.2	.0	.1	.0	.0	3.7	4.4	11.1
E	.4	.4	2.8	3.4	.7	.9	.4	.5	.1	.2	.0	.0	.0	.0	4.5	5.4	10.0
ESE	.2	.2	1.8	2.1	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	2.5	3.0	9.4
SE	.4	.5	2.1	2.5	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.0	3.6	8.4
SSE	.3	.3	2.0	2.4	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.9	3.5	9.4
S	.5	.5	3.9	4.7	1.2	1.4	.7	.8	.3	.4	.1	.1	.0	.0	6.7	8.0	10.8
SSW	.3	.3	3.1	3.8	1.3	1.6	1.0	1.2	.7	.8	.2	.2	.0	.0	6.6	7.9	12.6
SW	.5	.5	4.6	5.5	2.0	2.4	1.7	2.0	1.2	1.5	.3	.4	.0	.0	10.4	12.4	13.0
WSW	.3	.3	3.3	3.9	1.5	1.7	1.2	1.4	.8	1.0	.3	.3	.0	.1	7.3	8.8	13.2
W	.4	.5	4.1	4.9	1.7	2.1	1.8	2.1	1.2	1.5	.3	.4	.1	.1	9.6	11.5	13.3
WNW	.2	.2	2.5	3.0	1.0	1.2	.9	1.1	.7	.8	.2	.2	.0	.0	5.4	6.5	13.1
NW	.4	.4	3.0	3.5	1.1	1.3	.9	1.1	.5	.6	.1	.1	.0	.0	5.9	7.0	11.7
NNW	.2	.3	2.4	2.9	.9	1.0	.6	.7	.3	.3	.0	.0	.0	.0	4.4	5.3	11.4
CALM	1.4	1.7													1.4	1.7	
TOTAL	6.3	7.5	43.7	52.5	14.5	17.4	10.8	12.9	6.4	7.7	1.5	1.8	.2	.2	83.4	100	11.5

FWA FORT WAYNE, IN

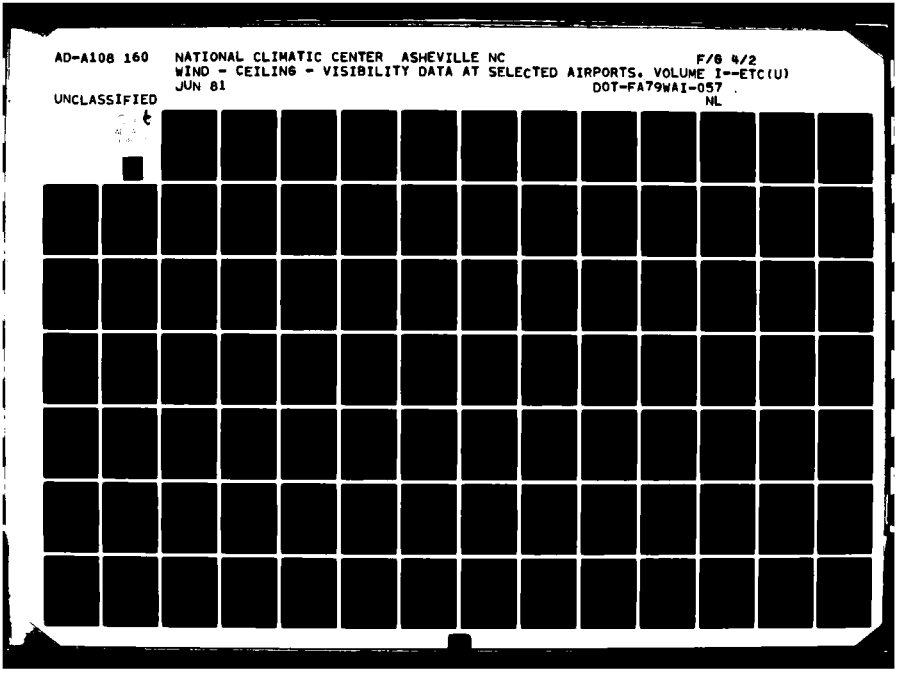
CEILING-VISIBILITY

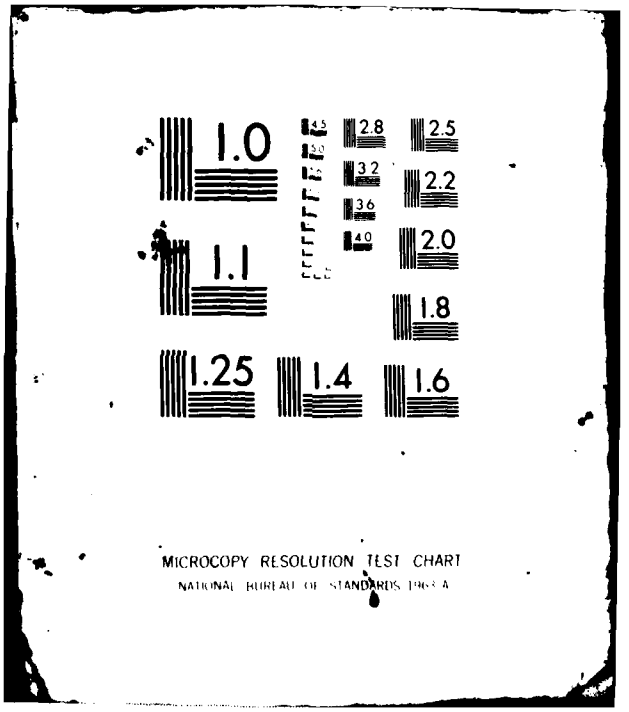
CLASS I /NIGHT

WIND GRAPH



AD-A108 160 NATIONAL CLIMATIC CENTER ASHEVILLE NC F/G 4/2
WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS, VOLUME I--ETC(U)
JUN 81 DOT-FA79WAI-057
UNCLASSIFIED NL




1.0
1.1
1.25
1.4
1.6
1.8
2.0
2.2
2.5
2.8
3.2
3.6
4.0
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 14827

NO. OBS.: 34988

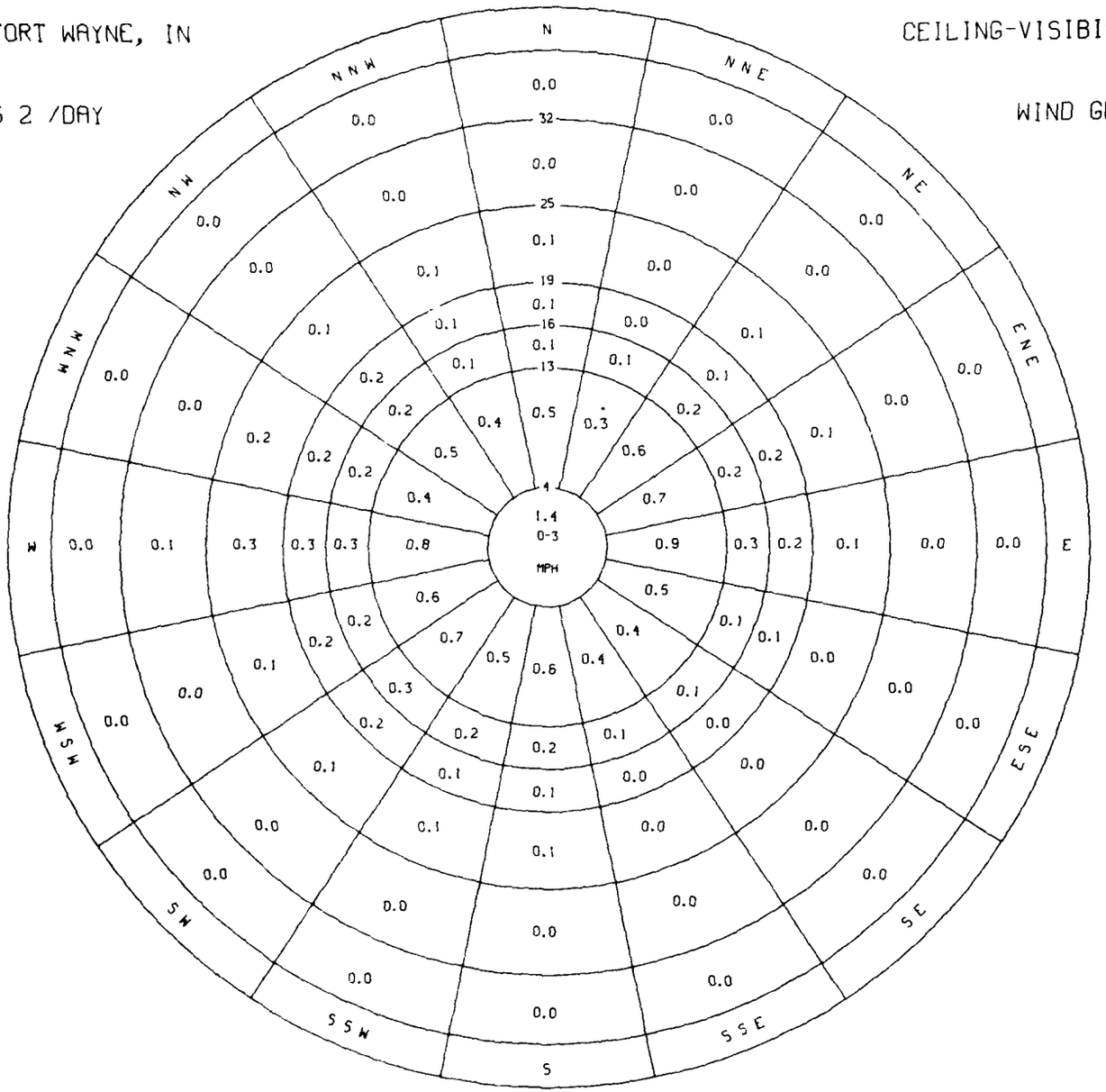
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.6	.7	2.5	3.0	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	3.7	4.3	8.0
NNE	.2	.3	1.2	1.4	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.7	2.0	8.3
NE	.8	.9	2.1	2.5	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	3.4	4.0	7.9
ENE	.3	.4	2.5	2.9	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.6	4.3	9.3
E	.6	.7	3.4	4.0	.6	.7	.2	.3	.1	.1	.0	.0	.0	.0	5.0	5.9	8.7
ESE	.4	.4	1.8	2.1	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.4	2.9	7.5
SE	.9	1.1	2.4	2.9	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.6	4.3	6.8
SSE	.6	.7	2.5	3.0	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.5	4.2	7.5
S	1.1	1.4	5.3	6.3	.8	1.0	.4	.5	.2	.2	.0	.0	.0	.0	8.0	9.5	8.7
SSW	.7	.8	4.5	5.3	.9	1.1	.5	.6	.3	.3	.1	.1	.0	.0	6.9	8.2	9.8
SW	1.1	1.3	5.6	6.7	1.4	1.6	.9	1.0	.5	.6	.1	.1	.0	.0	9.6	11.3	10.0
WSW	.6	.7	3.6	4.3	.9	1.0	.6	.7	.4	.5	.1	.1	.0	.0	6.2	7.3	10.6
W	.9	1.1	4.5	5.3	1.4	1.7	1.2	1.4	.8	1.0	.2	.3	.0	.0	9.1	10.8	11.5
WNW	.4	.5	2.5	2.9	.5	.6	.4	.5	.3	.4	.1	.1	.0	.0	4.3	5.1	10.7
NW	.8	.9	3.1	3.7	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	4.8	5.7	8.5
NNW	.4	.5	2.6	3.1	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.7	4.4	8.7
CALM	4.9	5.9													4.9	5.9	
TOTAL	15.5	18.3	50.1	59.3	9.3	11.1	5.6	6.6	3.1	3.7	.7	.9	.1	.1	84.4	100	8.7

FWA FORT WAYNE, IN

CEILING-VISIBILITY

CLASS 2 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14827

NO. OBS.: 8167

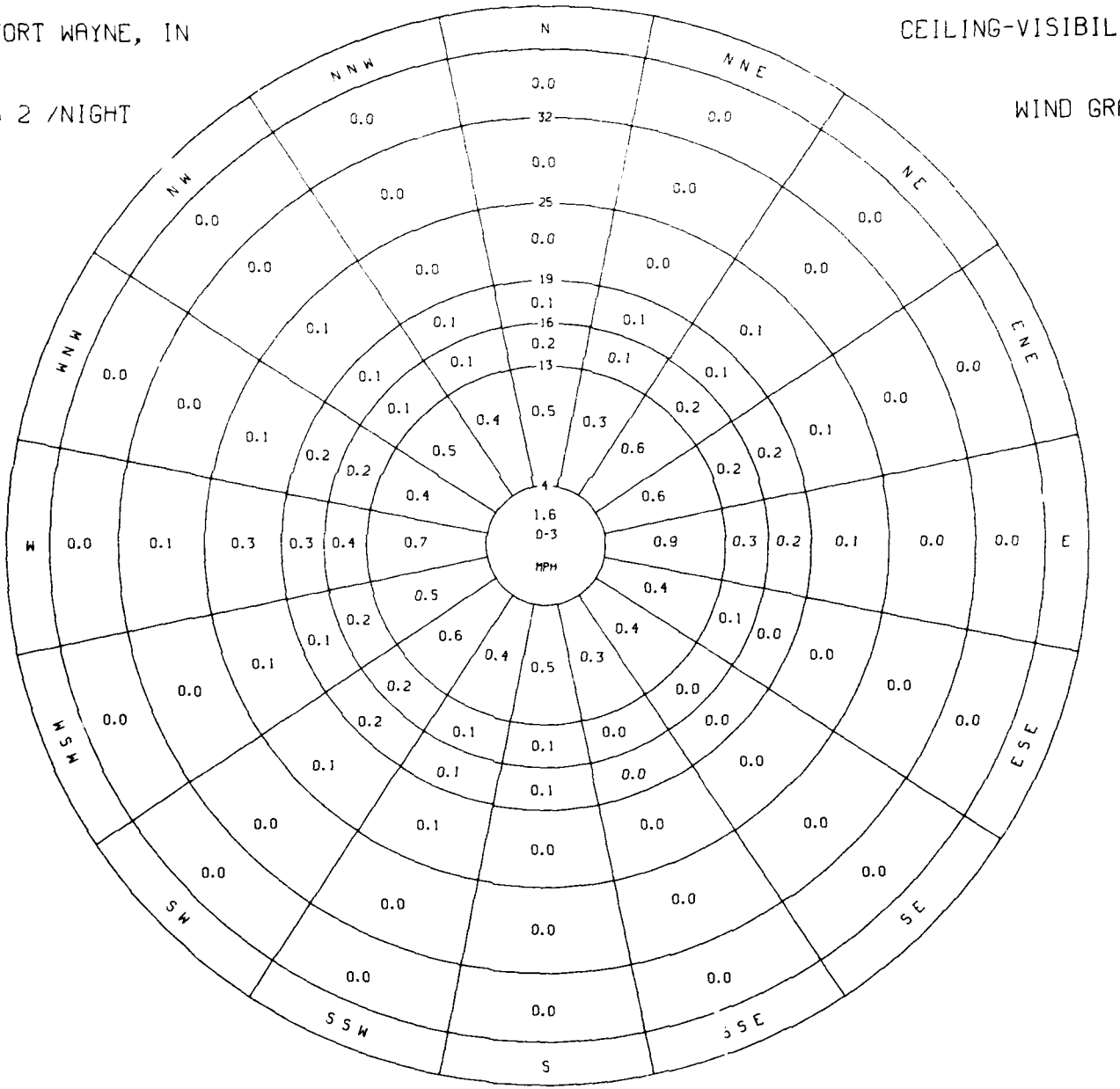
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.5	2.9	.1	.8	.1	.5	.1	.3	.0	.0	.0	.0	.8	5.0	10.7
NNE	.0	.2	.3	1.9	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.5	3.1	10.5
NE	.1	.5	.6	3.5	.2	1.0	.1	.7	.1	.3	.0	.1	.0	.0	1.0	6.1	11.0
ENE	.0	.3	.7	3.9	.2	1.4	.2	1.0	.1	.6	.0	.1	.0	.0	1.2	7.4	12.1
E	.1	.5	.9	5.3	.3	1.6	.2	1.1	.1	.4	.0	.0	.0	.0	1.5	9.0	11.0
ESE	.1	.4	.5	2.8	.1	.5	.1	.3	.0	.1	.0	.0	.0	.0	.7	4.1	9.2
SE	.1	.5	.4	2.7	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.7	3.9	8.5
SSE	.1	.4	.4	2.2	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.6	3.5	9.6
S	.1	.4	.6	3.9	.2	1.2	.1	.6	.1	.3	.0	.1	.0	.0	1.1	6.6	11.0
SSW	.0	.2	.5	3.0	.2	.9	.1	.8	.1	.6	.0	.1	.0	.0	.9	5.6	12.0
SW	.1	.5	.7	4.0	.3	1.6	.2	1.2	.1	.9	.0	.2	.0	.1	1.4	8.5	12.7
WSW	.1	.4	.6	3.4	.2	1.4	.2	1.2	.1	.9	.0	.2	.0	.1	1.3	7.6	12.9
W	.0	.3	.8	4.6	.3	1.9	.3	1.9	.3	1.5	.1	.5	.0	.1	1.8	10.8	13.9
WNW	.0	.2	.4	2.6	.2	1.2	.2	1.0	.2	.9	.0	.2	.0	.0	1.0	6.1	13.1
NW	.1	.3	.5	3.0	.2	1.0	.2	.9	.1	.5	.0	.1	.0	.0	1.0	6.0	12.0
NNW	.0	.2	.4	2.3	.1	.8	.1	.4	.1	.3	.0	.0	.0	.0	.7	4.0	11.4
CALM	.4	2.6													.4	2.6	
TOTAL	1.4	8.5	8.7	52.1	2.8	16.9	2.0	12.3	1.3	8.0	.3	1.9	.1	.4	16.6	100	11.4

FWA FORT WAYNE, IN

CEILING-VISIBILITY

CLASS 2 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 14827

NO. OBS.: 6446

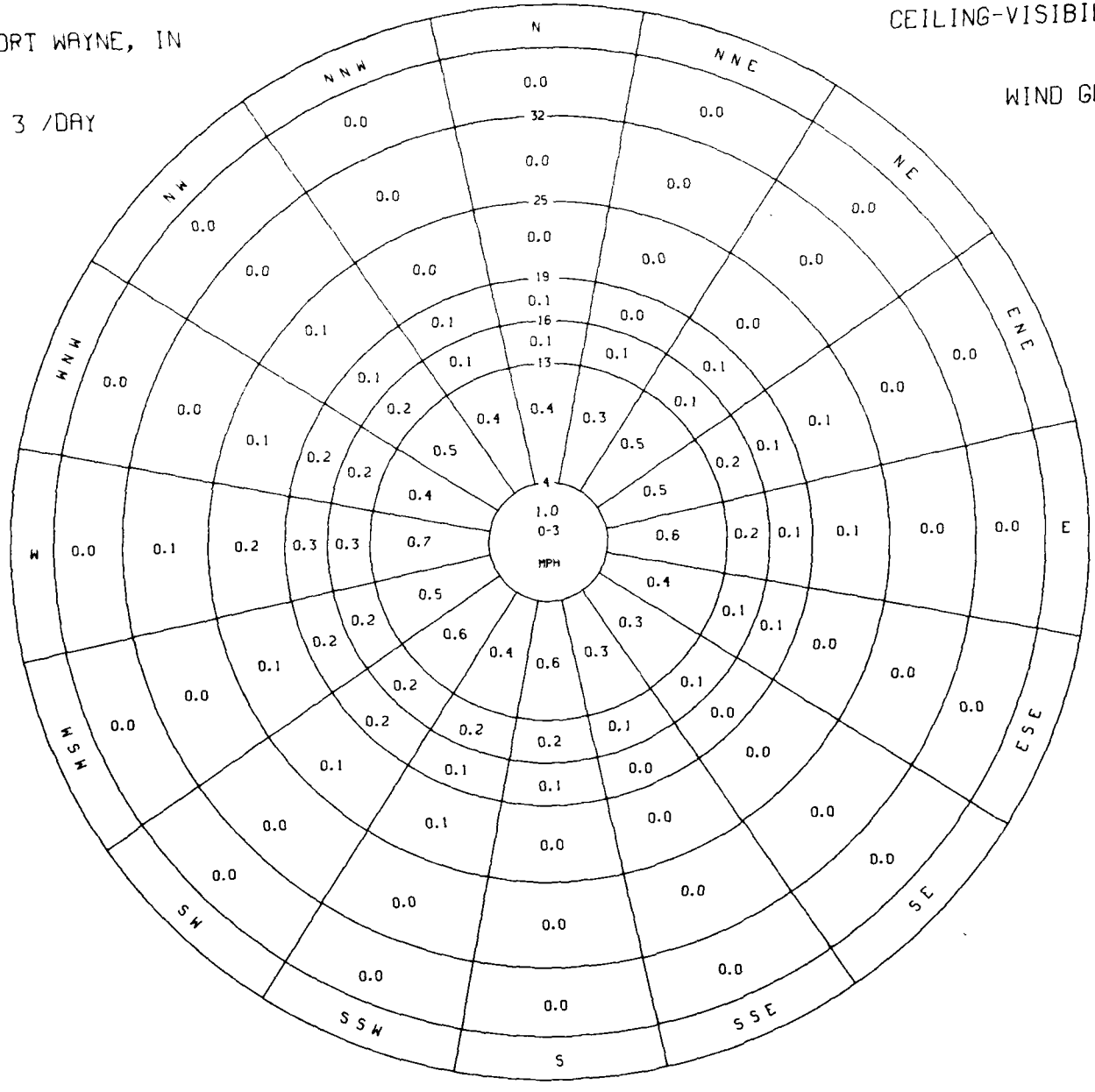
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.5	3.2	.2	1.1	.1	.8	.0	.3	.0	.1	.0	.0	.9	5.9	11.0
NNE	.0	.2	.3	2.0	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.5	3.5	10.8
NE	.1	.7	.6	3.7	.2	1.0	.1	.6	.1	.5	.0	.1	.0	.0	1.0	6.5	10.6
ENE	.1	.3	.6	3.9	.2	1.5	.2	1.1	.1	.7	.0	.2	.0	.0	1.2	7.7	12.1
E	.1	.6	.9	5.6	.3	1.7	.2	1.3	.1	.4	.0	.1	.0	.0	1.5	9.6	10.7
ESE	.0	.3	.4	2.3	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.2	8.9
SE	.1	.4	.4	2.8	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.6	3.7	8.1
SSE	.1	.3	.3	2.1	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.5	3.0	8.9
S	.1	.4	.5	3.1	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.8	5.4	10.7
SSW	.1	.3	.4	2.5	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.8	4.9	11.6
SW	.1	.7	.6	3.9	.2	1.3	.2	1.0	.1	.7	.0	.1	.0	.1	1.2	7.8	11.6
WSW	.1	.3	.5	3.3	.2	1.2	.1	.9	.1	.9	.0	.2	.0	.1	1.1	6.9	12.8
W	.1	.6	.7	4.4	.4	2.4	.3	1.9	.3	1.6	.1	.4	.0	.1	1.8	11.4	13.5
WNW	.0	.3	.4	2.9	.2	1.1	.2	1.1	.1	.6	.0	.1	.0	.0	.9	6.0	12.6
NW	.1	.6	.5	3.4	.1	.9	.1	.7	.1	.5	.0	.0	.0	.0	1.0	6.2	10.8
NNW	.0	.3	.4	2.8	.1	.8	.1	.5	.0	.3	.0	.0	.0	.0	.7	4.7	11.0
CALM	.5	3.5													.5	3.5	
TOTAL	1.6	10.3	8.1	52.0	2.6	16.4	1.9	12.1	1.2	7.4	.2	1.5	.0	.3	15.6	100	10.9

FWA FORT WAYNE, IN

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 14827

NO. OBS.: 7043

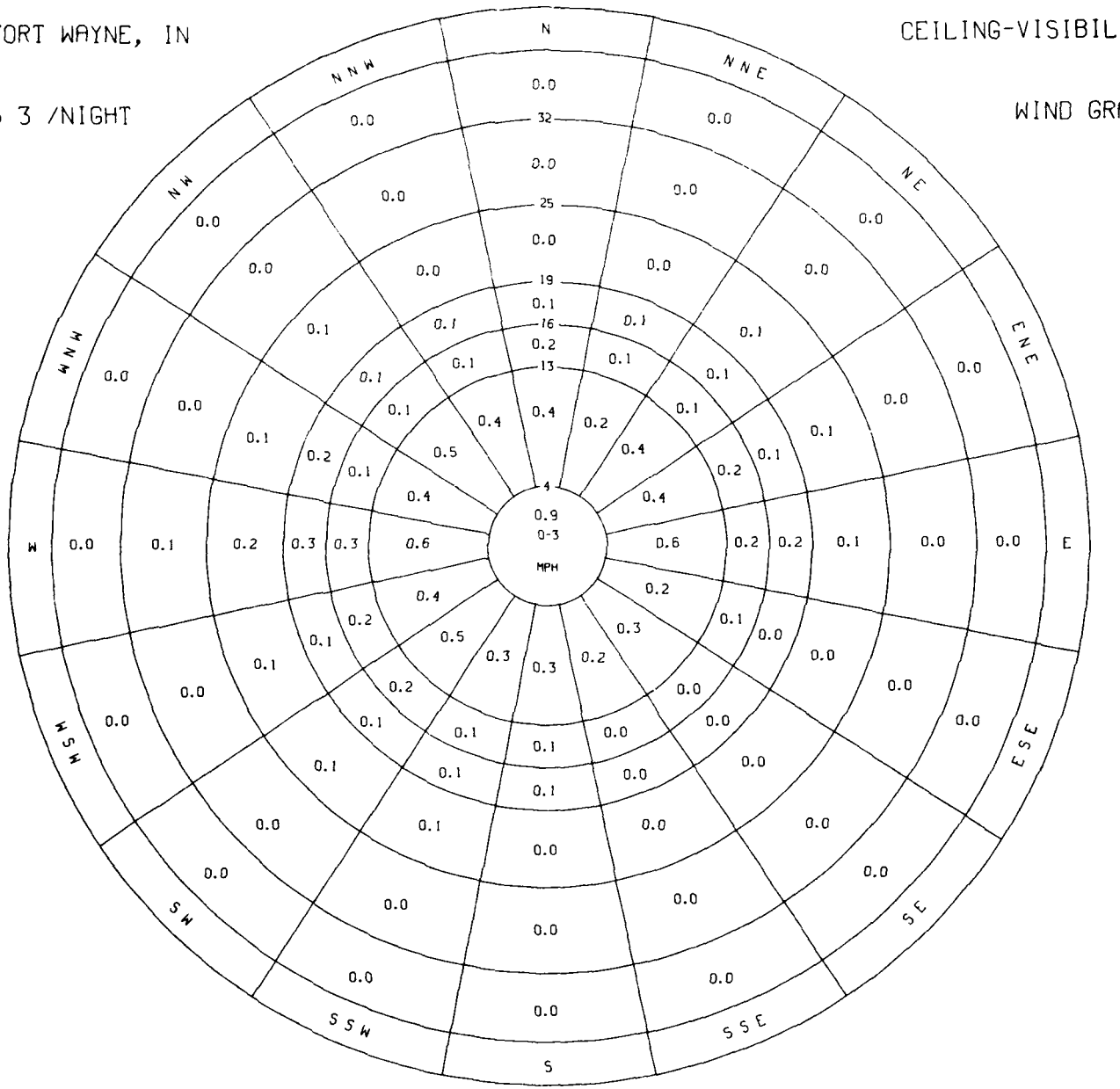
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.4	3.0	.1	.8	.1	.5	.0	.3	.0	.0	.0	.0	.7	5.1	10.8
NNE	.0	.2	.3	1.9	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.5	3.2	10.6
NE	.1	.4	.5	3.3	.1	1.0	.1	.8	.0	.3	.0	.1	.0	.0	.9	5.9	11.2
ENE	.0	.3	.5	3.5	.2	1.4	.1	1.0	.1	.6	.0	.1	.0	.0	1.0	6.9	12.3
E	.1	.4	.6	4.4	.2	1.5	.1	1.0	.1	.4	.0	.1	.0	.0	1.1	7.9	11.3
ESE	.0	.3	.4	2.5	.1	.5	.1	.4	.0	.1	.0	.0	.0	.0	.5	3.7	9.7
SE	.1	.4	.3	2.4	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.6	8.9
SSE	.0	.3	.3	2.1	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.4	10.1
S	.1	.4	.6	3.9	.2	1.3	.1	.7	.0	.3	.0	.1	.0	.0	1.0	6.8	11.3
SSW	.0	.2	.4	2.9	.2	1.1	.1	.8	.1	.7	.0	.1	.0	.0	.8	5.8	12.4
SW	.1	.4	.6	4.1	.2	1.7	.2	1.3	.1	1.0	.0	.2	.0	.1	1.3	8.8	13.0
WSW	.1	.4	.5	3.5	.2	1.5	.2	1.3	.1	1.0	.0	.2	.0	.1	1.1	8.0	13.2
W	.0	.3	.7	4.7	.3	2.1	.3	2.1	.2	1.7	.1	.5	.0	.1	1.7	11.5	14.1
WNW	.0	.2	.4	2.7	.2	1.3	.2	1.1	.1	1.0	.0	.2	.0	.0	.9	6.5	13.4
NW	.0	.2	.5	3.3	.2	1.2	.1	1.0	.1	.6	.0	.1	.0	.0	.9	6.3	12.1
NNW	.0	.2	.4	2.5	.1	.8	.1	.4	.0	.3	.0	.0	.0	.0	.6	4.3	11.2
CALM	.3	2.2													.3	2.2	
TOTAL	1.0	7.3	7.3	50.7	2.6	17.9	1.9	13.2	1.2	8.6	.3	1.8	.1	.4	14.3	100	11.7

FWA FORT WAYNE, IN

CEILING-VISIBILITY

CLASS 3 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14827

NO. OBS.: 5106

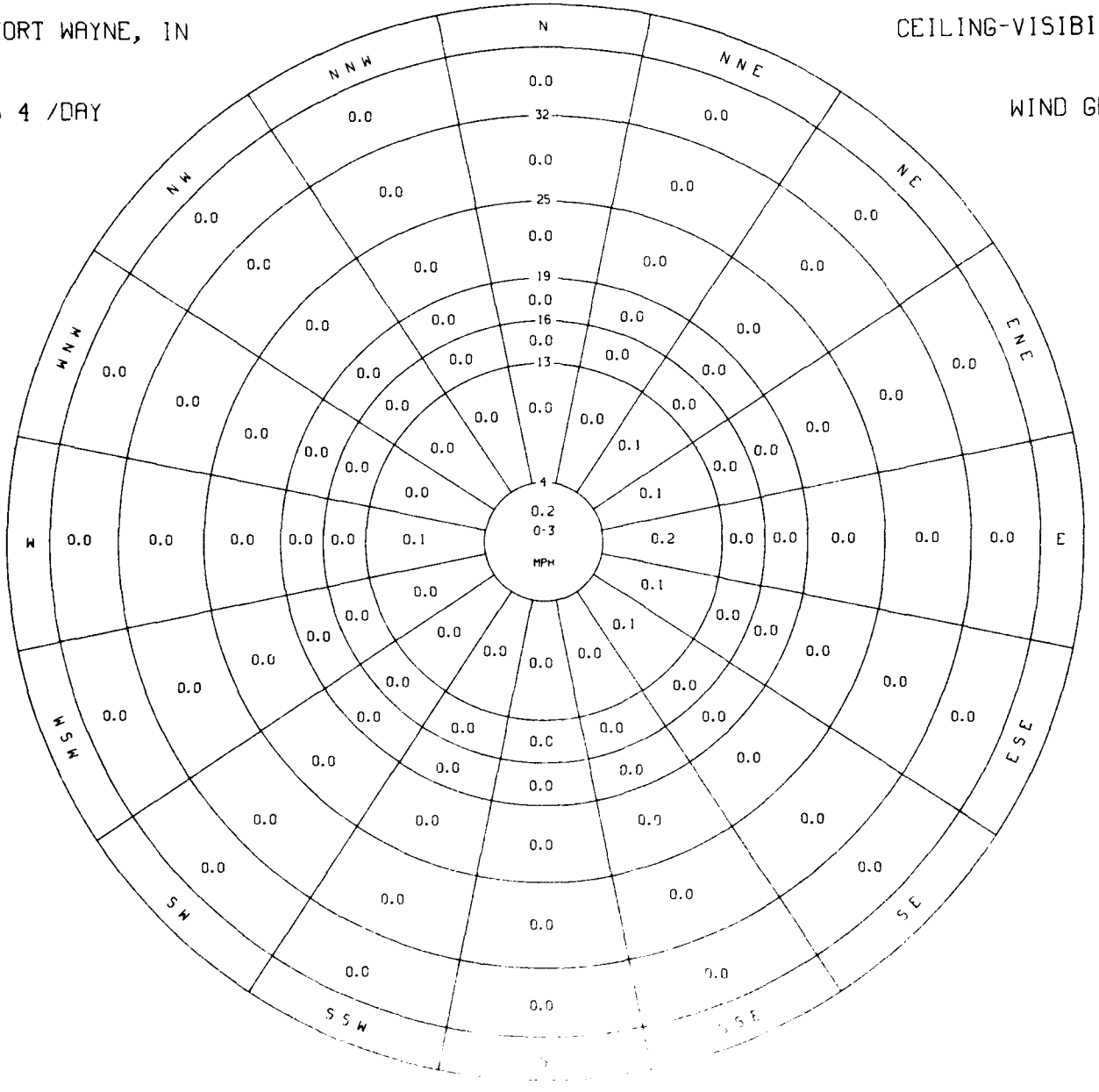
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.4	3.4	.2	1.3	.1	.9	.0	.3	.0	.1	.0	.0	.8	6.3	11.4
NNE	.0	.2	.2	1.9	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.4	3.6	11.2
NE	.1	.5	.4	3.3	.1	1.1	.1	.7	.1	.4	.0	.0	.0	.0	.7	6.0	11.1
ENE	.0	.3	.4	3.3	.2	1.7	.1	1.1	.1	.8	.0	.2	.0	.0	.9	7.3	12.6
E	.0	.3	.6	4.7	.2	1.7	.2	1.3	.1	.5	.0	.1	.0	.0	1.1	8.7	11.4
ESE	.0	.1	.2	2.0	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.3	2.8	9.7
SE	.0	.2	.3	2.3	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.4	3.0	8.9
SSE	.0	.2	.2	1.9	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.3	2.6	9.6
S	.0	.4	.3	2.7	.1	1.0	.1	.8	.0	.4	.0	.1	.0	.0	.7	5.4	11.4
SSW	.0	.2	.3	2.3	.1	1.0	.1	.8	.1	.5	.0	.1	.0	.0	.6	4.8	12.5
SW	.1	.5	.5	3.9	.2	1.5	.1	1.1	.1	.9	.0	.2	.0	.1	1.0	8.0	12.3
WSW	.0	.2	.4	3.4	.2	1.4	.1	1.1	.1	1.0	.0	.3	.0	.1	.9	7.5	13.3
W	.1	.5	.6	4.9	.3	2.8	.3	2.3	.2	2.0	.1	.5	.0	.1	1.6	13.0	13.9
WNW	.0	.3	.4	3.2	.1	1.2	.2	1.3	.1	.7	.0	.2	.0	.0	.9	6.9	12.9
NW	.1	.4	.5	3.8	.1	1.0	.1	.9	.1	.5	.0	.0	.0	.0	.8	6.7	11.3
NNW	.0	.2	.4	3.1	.1	.9	.1	.6	.0	.3	.0	.0	.0	.0	.6	5.1	11.3
CALM	.3	2.3													.3	2.3	
TOTAL	.9	7.1	6.2	50.0	2.2	18.2	1.7	14.0	1.1	8.6	.2	1.7	.0	.2	12.3	100	11.7

FWA FORT WAYNE, IN

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14827

NO. OBS.: 711

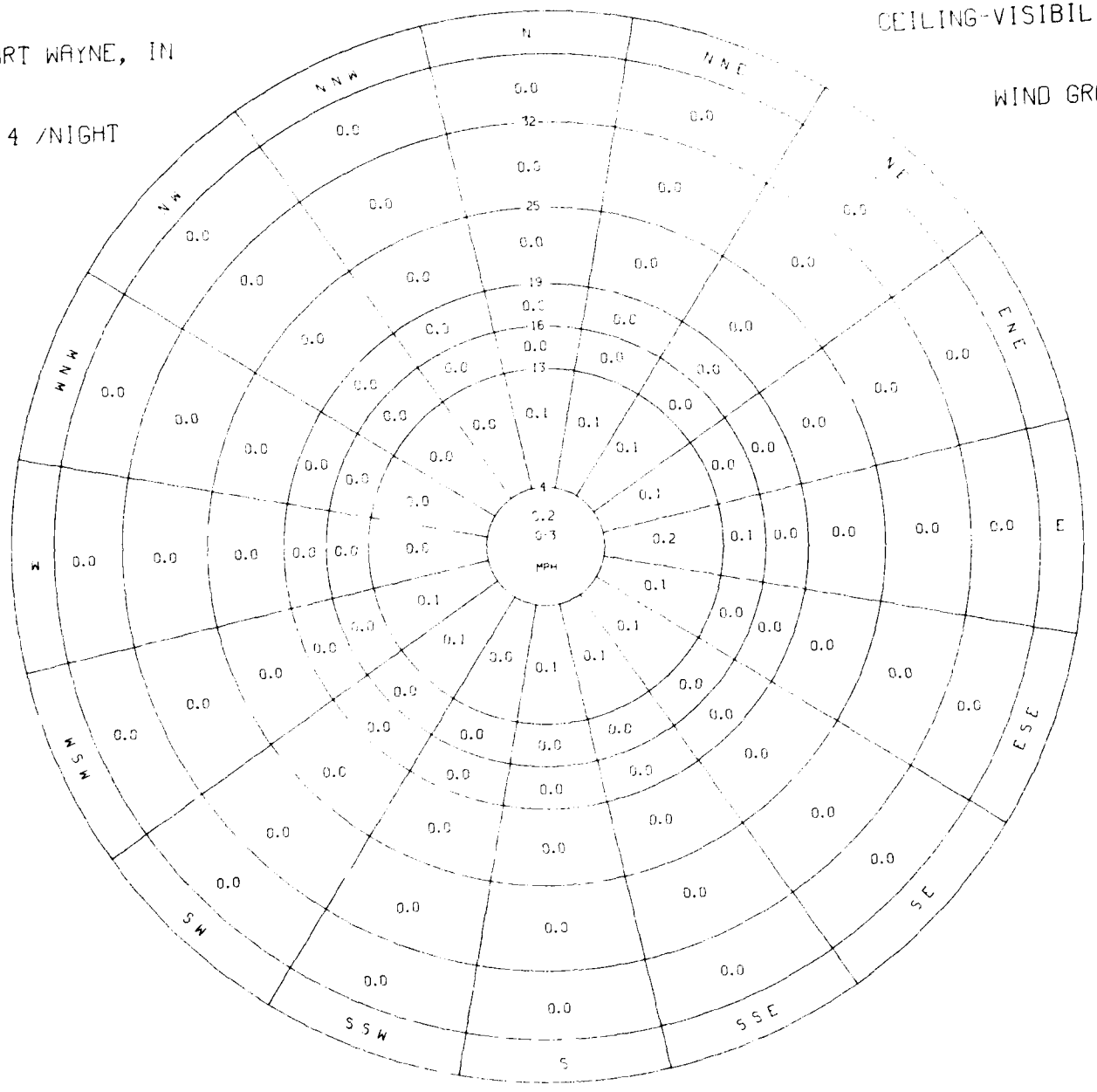
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.0	2.7	.0	1.1	.0	.6	.0	.4	.0	.0	.0	.0	.1	5.2	10.6
NNE	.0	.0	.0	2.1	.0	.1	.0	.6	.0	.1	.0	.0	.0	.0	.0	3.0	10.8
NE	.0	.4	.1	5.3	.0	1.3	.0	.4	.0	.1	.0	.4	.0	.0	.1	8.0	10.7
ENE	.0	.4	.1	6.8	.0	1.8	.0	1.4	.0	1.0	.0	.0	.0	.1	.2	11.5	11.6
E	.0	.6	.2	11.1	.0	2.4	.0	2.3	.0	.6	.0	.0	.0	.0	.2	16.9	10.8
ESE	.0	.8	.1	4.8	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1	6.3	8.2
SE	.0	1.0	.1	3.9	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.1	5.6	7.7
SSE	.0	.8	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.7	6.8
S	.0	.1	.0	3.1	.0	1.1	.0	.1	.0	.3	.0	.0	.0	.0	.1	4.8	10.1
SSW	.0	.6	.0	2.8	.0	.3	.0	.4	.0	.1	.0	.0	.0	.0	.1	4.2	9.4
SW	.0	1.3	.0	3.4	.0	1.1	.0	.4	.0	.3	.0	.3	.0	.1	.1	6.9	10.8
WSW	.0	.1	.0	2.5	.0	.7	.0	.4	.0	.3	.0	.3	.0	.0	.1	4.4	11.6
W	.0	.1	.1	4.2	.0	1.3	.0	.3	.0	.7	.0	.7	.0	.0	.1	7.3	13.1
WNW	.0	.0	.0	1.7	.0	1.0	.0	.6	.0	.1	.0	.0	.0	.0	.0	3.4	11.5
NW	.0	.7	.0	1.3	.0	.4	.0	.7	.0	.3	.0	.3	.0	.0	.1	3.7	12.0
NNW	.0	.0	.0	.7	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	1.4	12.6
CALM	.1	3.8													.1	3.8	
TOTAL	.2	11.3	.9	59.2	.2	14.1	.1	8.6	.1	4.6	.0	2.0	.0	.3	1.4	100	10.2

FWA FORT WAYNE, IN

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14827

NO. OBS.: 806

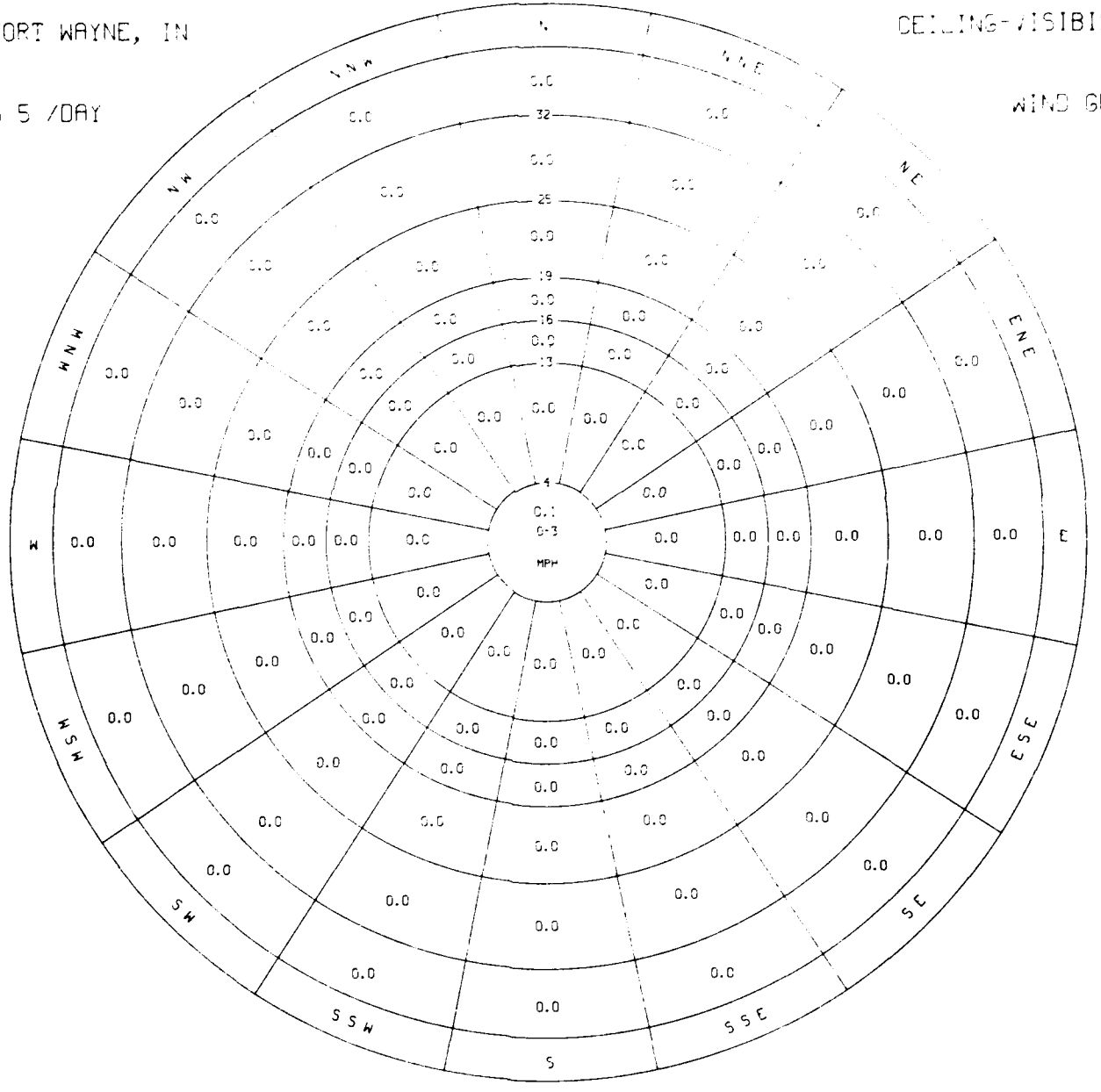
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.1	3.5	.0	.6	.0	.2	.0	.1	.0	.0	.0	.0	.1	5.0	8.9
NNE	.0	.0	.1	2.9	.0	.7	.0	.1	.0	.1	.0	.1	.0	.0	.1	4.0	9.8
NE	.0	.5	.1	6.2	.0	1.0	.0	.7	.0	1.0	.0	.0	.0	.0	.2	9.4	10.8
ENE	.0	.4	.1	6.3	.0	1.5	.0	1.4	.0	.6	.0	.1	.0	.0	.2	10.3	11.8
E	.0	.7	.2	9.1	.1	2.6	.0	1.2	.0	.2	.0	.0	.0	.0	.3	13.9	9.9
ESE	.0	.6	.1	3.7	.0	.5	.0	.4	.0	.0	.0	.0	.0	.0	.1	5.2	8.2
SE	.0	.7	.1	6.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.3	7.5
SSE	.0	.1	.1	2.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.3	8.1
S	.0	.4	.1	4.1	.0	.6	.0	.1	.0	.1	.0	.0	.0	.0	.1	5.3	8.5
SSW	.0	.5	.0	2.1	.0	.9	.0	.1	.0	.1	.0	.0	.0	.0	.1	3.7	9.7
SW	.0	1.0	.1	4.5	.0	.7	.0	1.1	.0	.2	.0	.1	.0	.0	.1	7.7	10.2
WSW	.0	.4	.1	2.6	.0	.9	.0	.4	.0	.4	.0	.1	.0	.0	.1	4.7	10.8
W	.0	.9	.0	2.1	.0	1.1	.0	.5	.0	.4	.0	.1	.0	.1	.1	5.2	11.5
WNW	.0	.2	.0	2.1	.0	.6	.0	.1	.0	.1	.0	.0	.0	.0	.1	3.2	9.5
NW	.0	.2	.0	2.4	.0	.7	.0	.1	.0	.2	.0	.1	.0	.0	.1	3.8	10.5
NNW	.0	.5	.0	2.0	.0	.2	.0	.2	.0	.4	.0	.2	.0	.0	.1	3.6	11.3
CALM	.1	4.2													.1	4.2	
TOTAL	.2	11.9	1.2	62.4	.3	13.6	.1	6.8	.1	4.1	.0	1.0	.0	.1	1.9	100	9.5

FWA FORT WAYNE, IN

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14827

NO. OBS.: 199

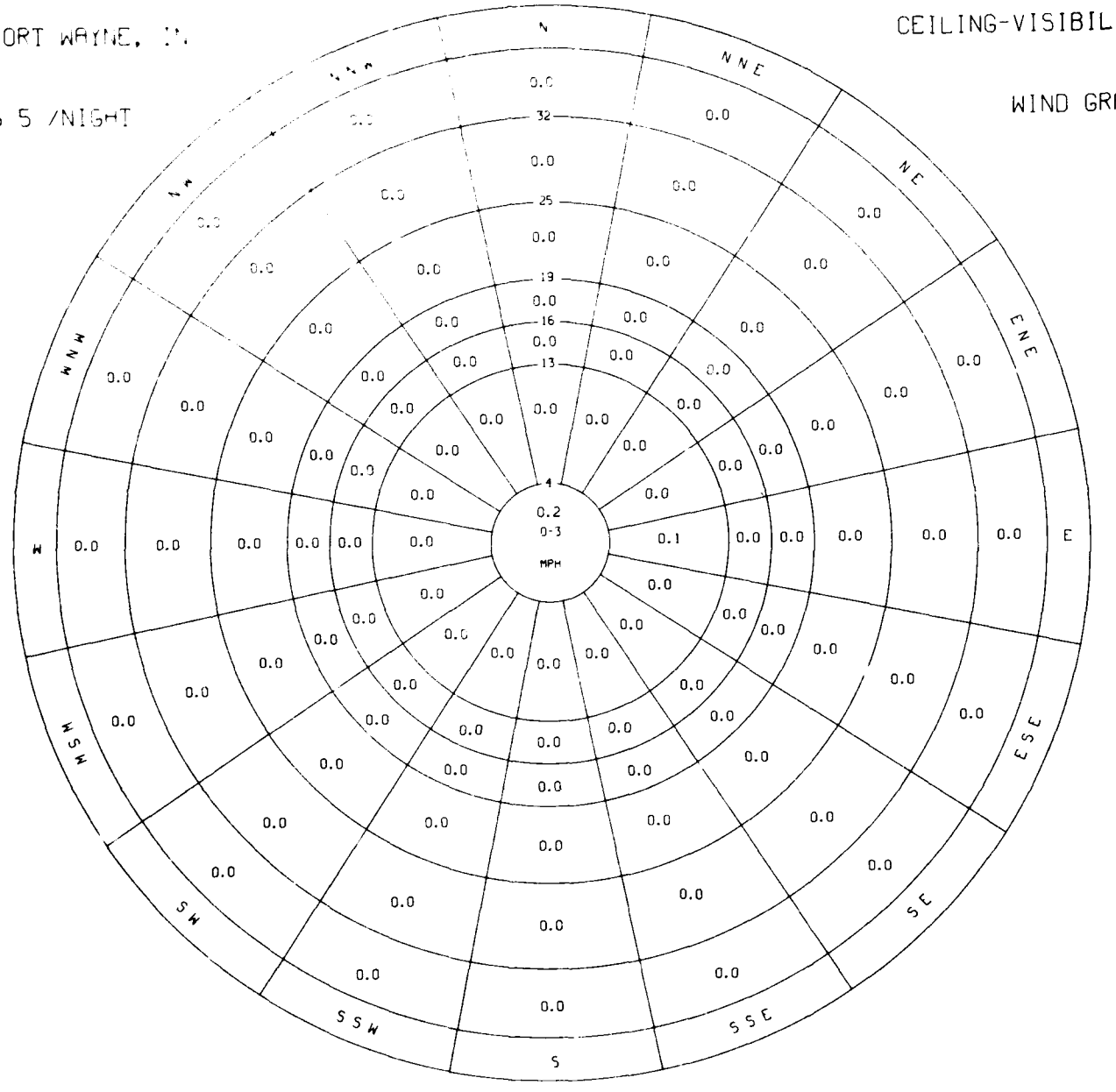
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.5	.0	.0	.0	.5	.0	1.0	.0	.5	.0	.0	.0	4.5	13.2
NNE	.0	1.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	2.0	11.2
NE	.0	.5	.0	4.5	.0	.5	.0	.0	.0	1.0	.0	.5	.0	.0	.0	7.0	11.6
ENE	.0	.5	.0	4.5	.0	2.0	.0	2.0	.0	.5	.0	.0	.0	.0	.0	9.5	12.4
E	.0	2.5	.0	9.0	.0	1.0	.0	.5	.0	.5	.0	.0	.0	.0	.1	13.6	8.5
ESE	.0	.5	.0	5.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.2
SE	.0	2.5	.0	7.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	10.6	7.2
SSE	.0	1.5	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	7.0
S	.0	2.0	.0	3.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.4
SSW	.0	.5	.0	3.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	4.5	8.9
SW	.0	.0	.0	4.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	9.0
WSW	.0	1.0	.0	3.5	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	5.5	10.0
W	.0	.5	.0	2.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.5	8.1
WNW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	7.0
NW	.0	1.0	.0	1.0	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.5	.0	4.0	12.9
NNW	.0	.5	.0	2.0	.0	.0	.0	.0	.0	1.0	.0	1.5	.0	.5	.0	5.5	17.6
CALM	.0	4.5													.0	4.5	
TOTAL	.1	19.1	.2	60.3	.0	5.0	.0	6.0	.0	5.5	.0	3.0	.0	1.0	.4	100	9.4

FWA FORT WAYNE, IN.

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14827

NO. OBS.: 254

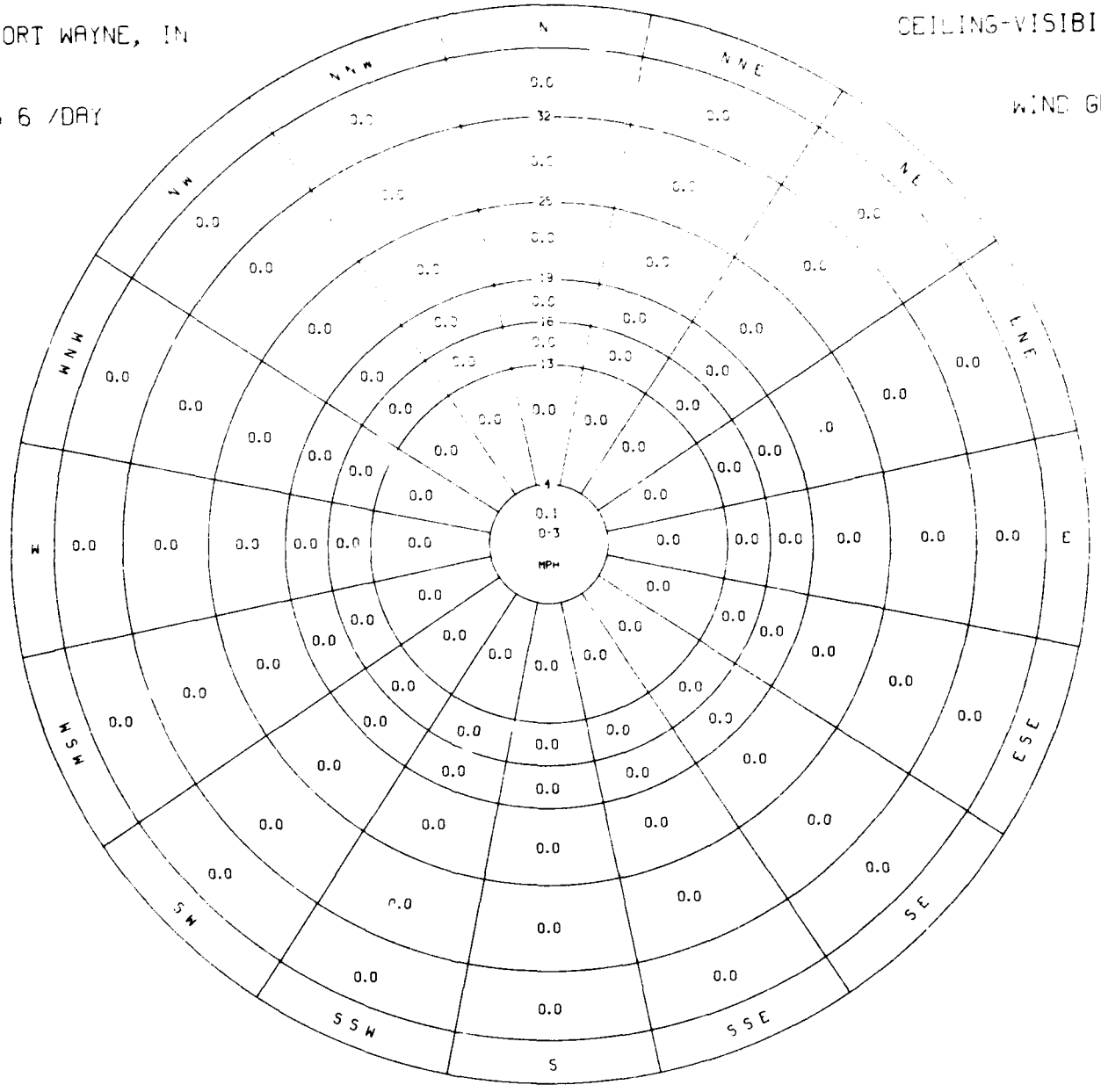
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.6	.0	2.0	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.0	4.3	8.2
NNE	.0	.4	.0	2.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	3.1	9.1
NE	.0	2.8	.0	3.9	.0	.0	.0	.4	.0	.4	.0	.4	.0	.0	.0	7.9	7.1
ENE	.0	1.2	.0	7.5	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	9.1	7.5
E	.0	2.8	.1	9.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	13.4	7.2
ESE	.0	1.2	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.3
SE	.0	1.2	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	5.1
SSE	.0	.8	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	7.9
S	.0	1.2	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	6.4
SSW	.0	.4	.0	5.5	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	7.1	9.7
SW	.0	2.0	.0	3.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	6.3
WSW	.0	.8	.0	2.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.5
W	.0	2.4	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.4	.0	5.1	8.6
WNW	.0	.0	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	9.0
NW	.0	3.5	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	3.6
NNW	.0	.4	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.9
CALM	.1	12.6													.1	12.6	
TOTAL	.2	35.0	.4	57.9	.0	3.1	.0	2.0	.0	.8	.0	.8	.0	.4	.6	100	6.2

FWA FORT WAYNE, IN

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 6 / DAY

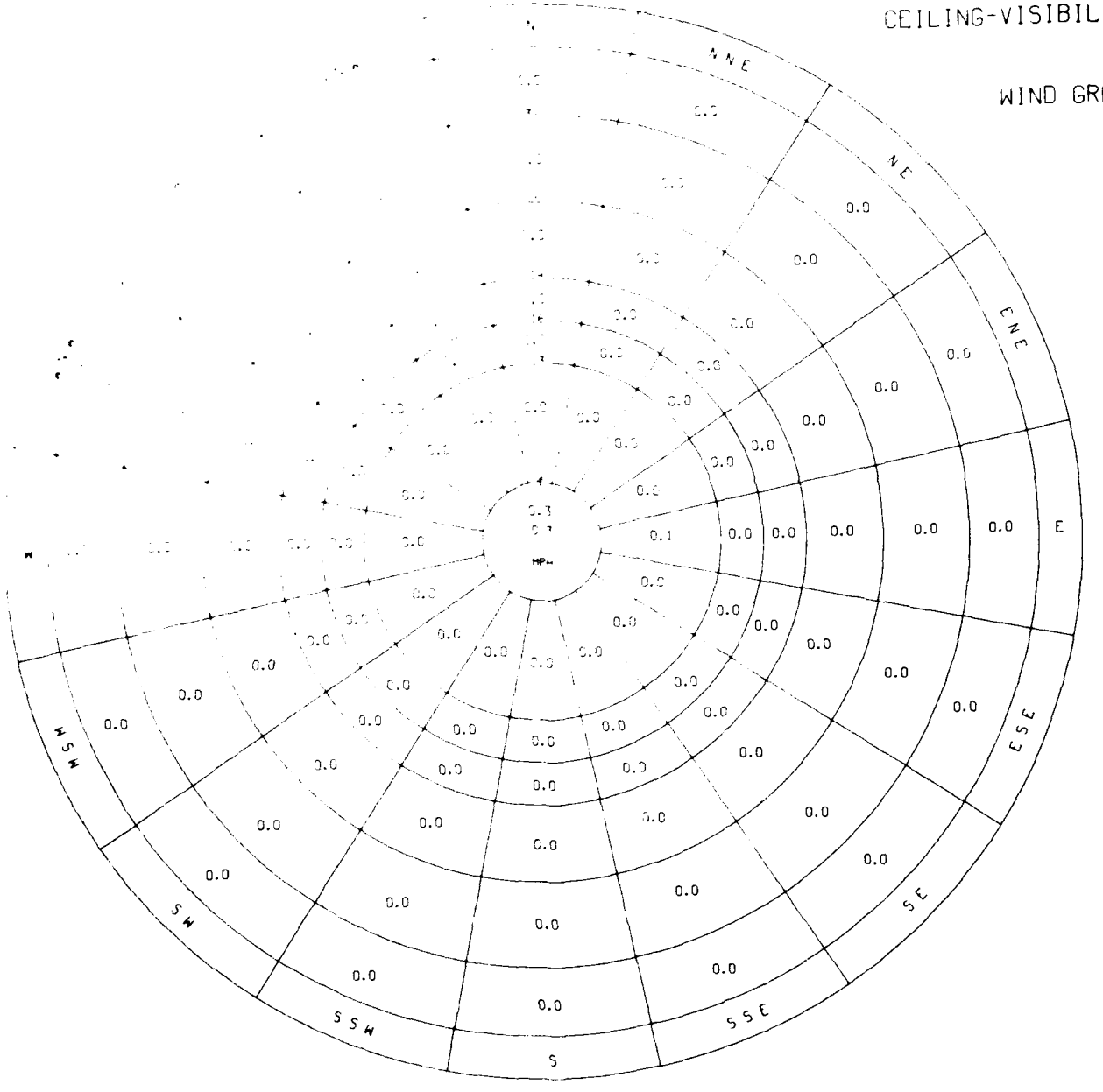
STATION NUMBER: 14827

NO. OBS.: 214

DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	4.1
NNE	.0	.5	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	5.7
NE	.0	.4	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	5.1
ENE	.0	.9	.0	7.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	8.1
E	.0	.4	.0	11.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	13.6	7.1
ESE	.0	.3	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	6.1
SE	.0	.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	5.3
SSE	.0	.4	.0	3.4	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	7.3
S	.0	.5	.0	5.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.0
SSW	.0	.5	.0	4.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	7.8
SW	.0	.5	.0	4.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	6.5	6.6
WSW	.0	.5	.0	5.9	.0	.5	.0	.5	.0	.0	.0	.0	.0	.5	.0	7.9	8.1
W	.0	.5	.0	3.2	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	4.2	8.3
WNW	.0	.5	.0	2.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	4.7
NW	.0	.5	.0	3.2	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	4.2	6.6
NNW	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	7.0
															.0	10.3	
	.0	.9	.0	1.9	.0	.0	.0	.9	.0	.0	.0	.9	.0	.5	.4	100	6.2

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FWA FORT WAYNE, IN

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14827

NO. OBS.: 280

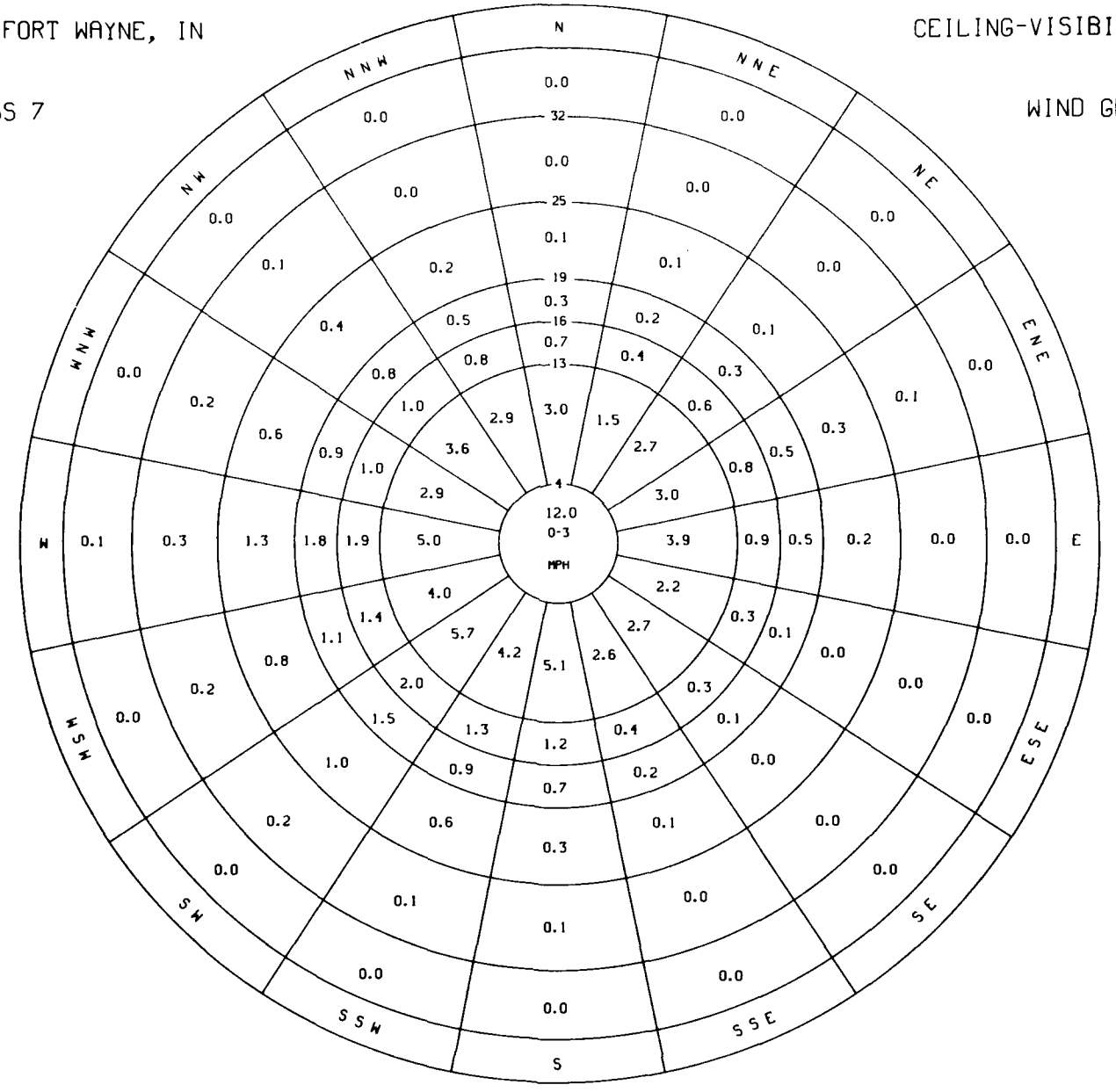
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.1	.0	1.1	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	2.5	6.7
NNE	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.0
NE	.0	3.6	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	7.1	6.0
ENE	.0	.7	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	7.7
E	.0	2.1	.1	7.9	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.1	12.1	7.5
ESE	.0	1.4	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	5.8
SE	.0	2.5	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	4.6
SSE	.0	2.5	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	5.3
S	.0	.7	.0	3.9	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	7.7
SSW	.0	2.1	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.5	5.5
SW	.0	2.9	.0	3.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	5.4
WSW	.0	1.8	.0	3.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.0	6.1	7.5
W	.0	1.8	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	.0	7.1	10.0
WNW	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	5.2
NW	.0	1.4	.0	1.8	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.6	5.8
NNW	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	4.9
CALM	.1	14.3													.1	14.3	
TOTAL	.3	41.8	.4	52.1	.0	2.9	.0	1.1	.0	.4	.0	.4	.0	1.4	.7	100	5.6

FWA FORT WAYNE, IN

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

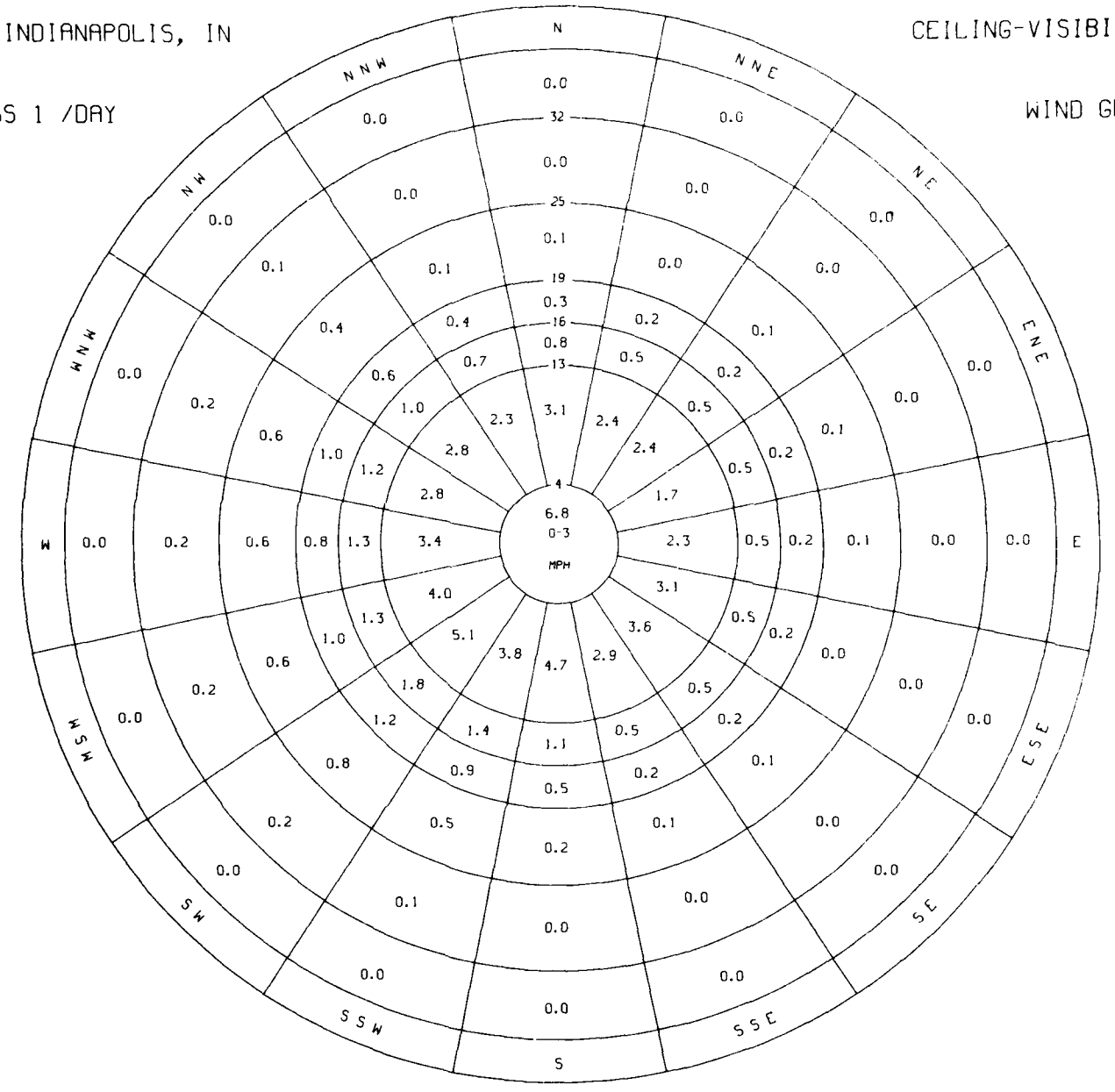

N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0.0
32
0.0
0.0
25
0.1
0.1
19
0.3
0.2
16
0.7
0.4
13
3.0
1.5
2.7
0.6
3.0
0.8
0.5
4
12.0
0-3
MPH
3.9
0.9
0.5
0.2
0.0
0.0
2.2
0.3
0.1
2.7
0.3
0.1
0.0
0.0
0.0
5.1
2.6
0.3
0.1
0.0
0.0
1.2
0.4
0.2
0.0
0.0
0.7
0.2
0.1
0.0
0.0
0.3
0.1
0.0
0.0
0.1
0.0
0.0
0.0

IND INDIANAPOLIS, IN

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 93819

NO. OBS.: 41659

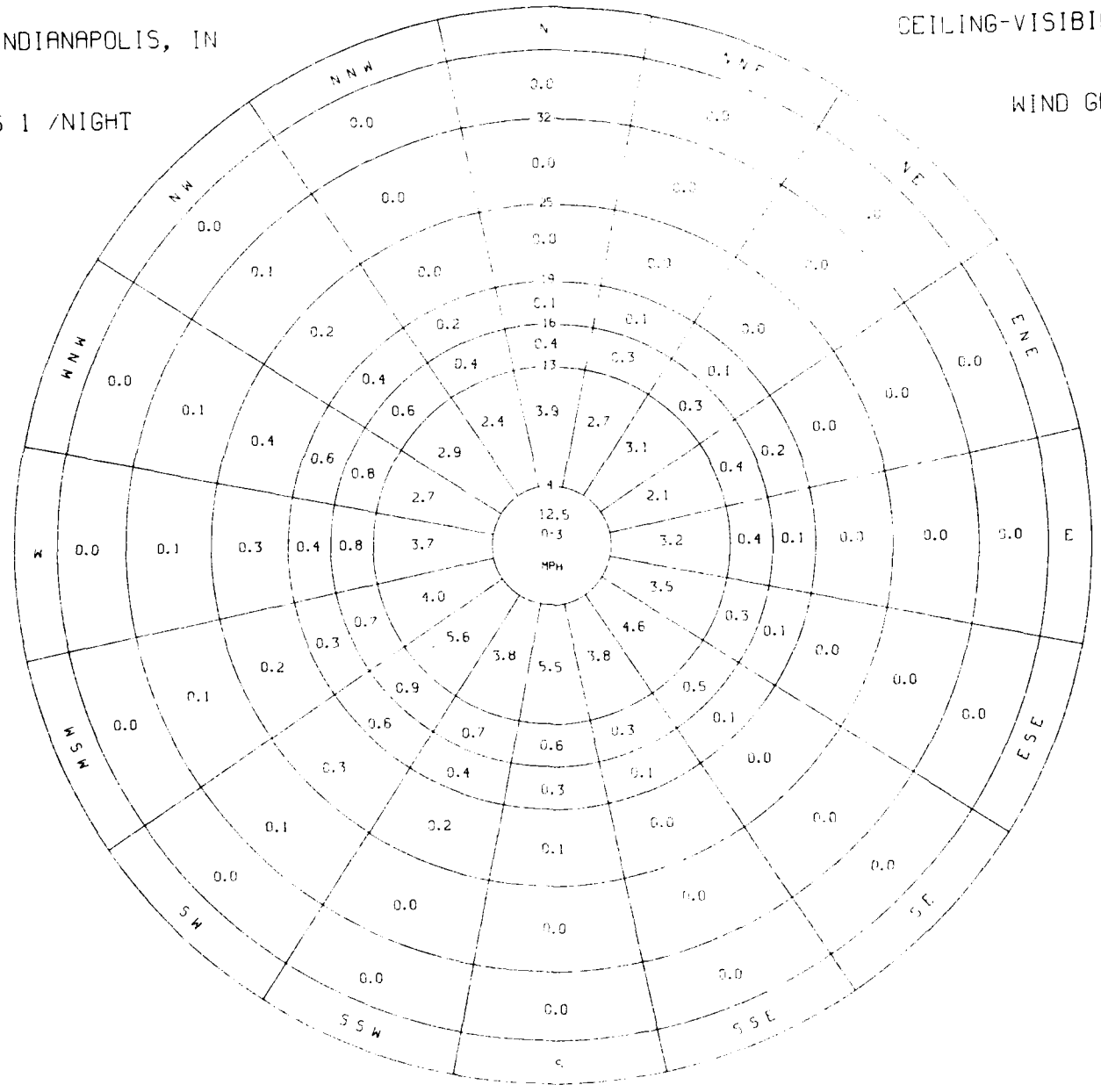
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.4	3.1	3.6	.8	.9	.3	.3	.1	.1	.0	.0	.0	.0	4.5	5.3	9.6
NNE	.2	.2	2.4	2.8	.5	.6	.2	.2	.0	.0	.0	.0	.0	.0	3.2	3.8	9.5
NE	.3	.4	2.4	2.8	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	3.5	4.2	9.4
ENE	.2	.2	1.7	2.0	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	2.6	3.1	9.8
E	.3	.4	2.3	2.7	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	3.4	4.0	9.4
ESE	.3	.4	3.1	3.7	.5	.6	.2	.2	.0	.1	.0	.0	.0	.0	4.2	5.0	9.0
SE	.4	.5	3.6	4.2	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	4.9	5.7	8.8
SSE	.3	.4	2.9	3.4	.5	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.9	4.6	9.1
S	.5	.6	4.7	5.5	1.1	1.3	.5	.6	.2	.3	.0	.0	.0	.0	7.1	8.4	9.9
SSW	.3	.3	3.8	4.5	1.4	1.6	.9	1.1	.5	.6	.1	.1	.0	.0	7.0	8.2	11.7
SW	.6	.7	5.1	6.0	1.8	2.1	1.2	1.4	.8	1.0	.2	.3	.0	.0	9.7	11.5	11.8
WSW	.4	.5	4.0	4.7	1.3	1.6	1.0	1.1	.6	.7	.2	.3	.0	.0	7.5	8.9	12.0
W	.4	.5	3.4	4.0	1.3	1.5	.8	.9	.6	.7	.2	.2	.0	.0	6.7	7.9	11.9
WNW	.3	.4	2.8	3.3	1.2	1.4	1.0	1.2	.6	.7	.2	.3	.0	.0	6.1	7.2	12.6
NW	.3	.4	2.8	3.3	1.0	1.2	.6	.7	.4	.5	.1	.1	.0	.0	5.3	6.2	11.5
NNW	.2	.3	2.3	2.7	.7	.8	.4	.5	.1	.2	.0	.0	.0	.0	3.8	4.5	10.5
CALM	1.2	1.4													1.2	1.4	
TOTAL	6.8	8.0	50.2	59.2	14.0	16.5	8.0	9.5	4.4	5.2	1.2	1.4	.2	.2	84.8	100	10.6

IND INDIANAPOLIS, IN

CEILING-VISIBILITY

CLASS 1 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 93819

NO. OBS.: 35219

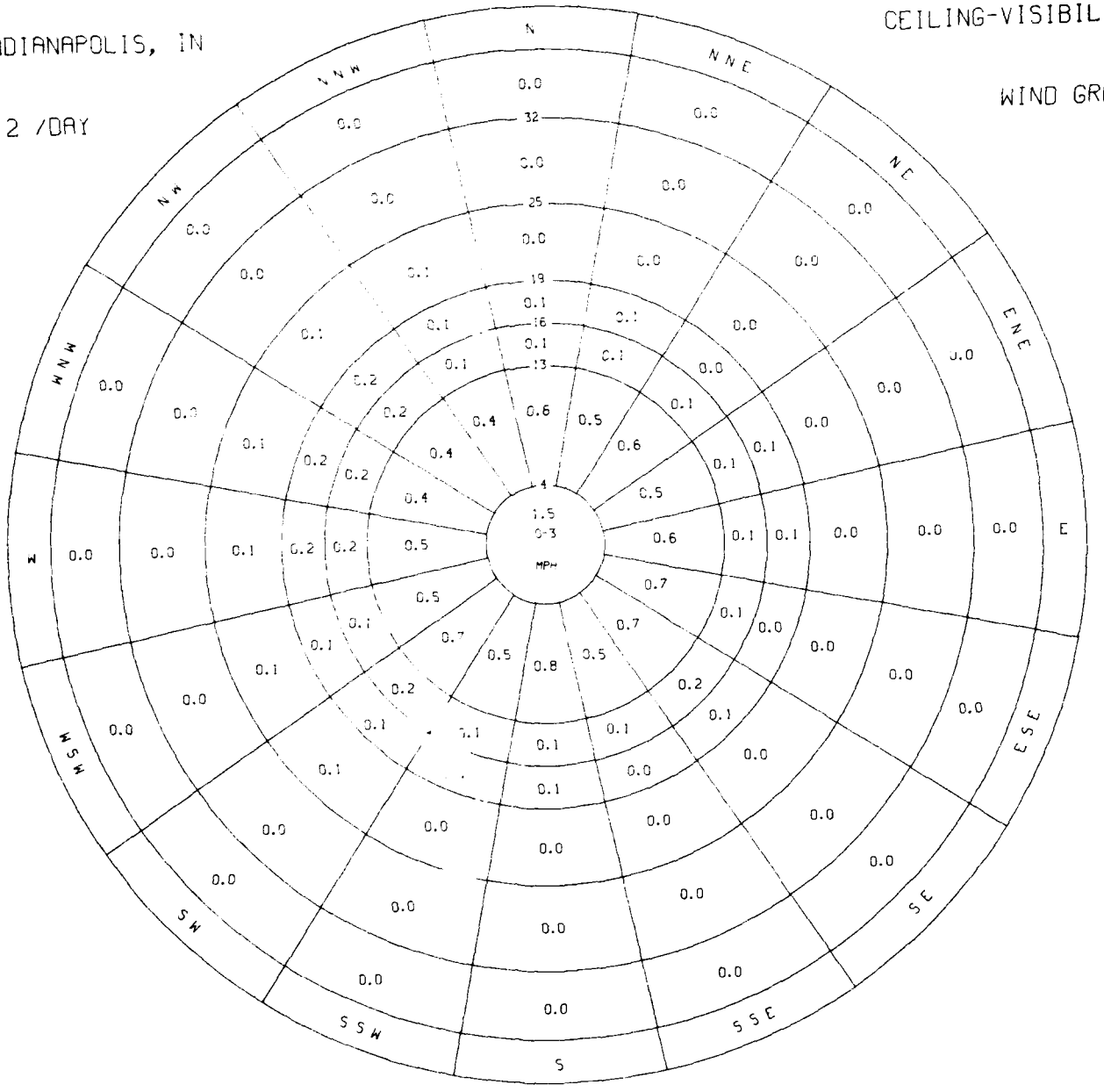
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.8	.9	3.9	4.6	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	5.2	6.1	7.6
NNE	.4	.5	2.7	3.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.4	4.0	7.7
NE	.4	.5	3.1	3.6	.3	.4	.1	.2	.0	.1	.0	.0	.0	.0	4.0	4.7	8.2
ENE	.3	.4	2.1	2.5	.4	.4	.2	.2	.0	.1	.0	.0	.0	.0	3.0	3.5	8.8
E	.4	.5	3.2	3.8	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	4.2	4.9	8.3
ESE	.4	.5	3.5	4.1	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	4.4	5.1	8.0
SE	.6	.8	4.6	5.4	.5	.5	.1	.1	.0	.0	.0	.0	.0	.0	5.9	6.9	7.9
SSE	.4	.5	3.8	4.5	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	4.7	5.5	7.9
S	.8	.9	5.5	6.5	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	7.3	8.5	8.2
SSW	.5	.6	3.8	4.5	.7	.8	.4	.4	.2	.2	.0	.1	.0	.0	5.6	6.6	9.4
SW	1.1	1.3	5.6	6.6	.9	1.1	.6	.7	.3	.4	.1	.1	.0	.0	8.6	10.2	9.3
WSW	.7	.8	4.0	4.7	.7	.8	.3	.4	.2	.3	.1	.1	.0	.0	6.0	7.1	9.1
W	.9	1.1	3.7	4.3	.8	1.0	.4	.5	.3	.3	.1	.1	.0	.0	6.2	7.3	9.6
WNW	.6	.8	2.7	3.2	.8	.9	.5	.7	.4	.4	.1	.1	.0	.0	5.2	6.2	10.7
NW	.7	.8	2.9	3.5	.6	.7	.4	.5	.2	.3	.1	.1	.0	.0	5.0	5.9	9.7
NNW	.5	.6	2.4	2.8	.4	.4	.2	.2	.0	.1	.0	.0	.0	.0	3.5	4.1	8.3
CALM	2.9	3.4													2.9	3.4	
TOTAL	12.5	14.8	57.5	67.6	8.3	9.7	4.0	4.7	2.0	2.4	.6	.7	.1	.1	85.0	100	8.4

IND INDIANAPOLIS, IN

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 93819

NO. OBS.: 7448

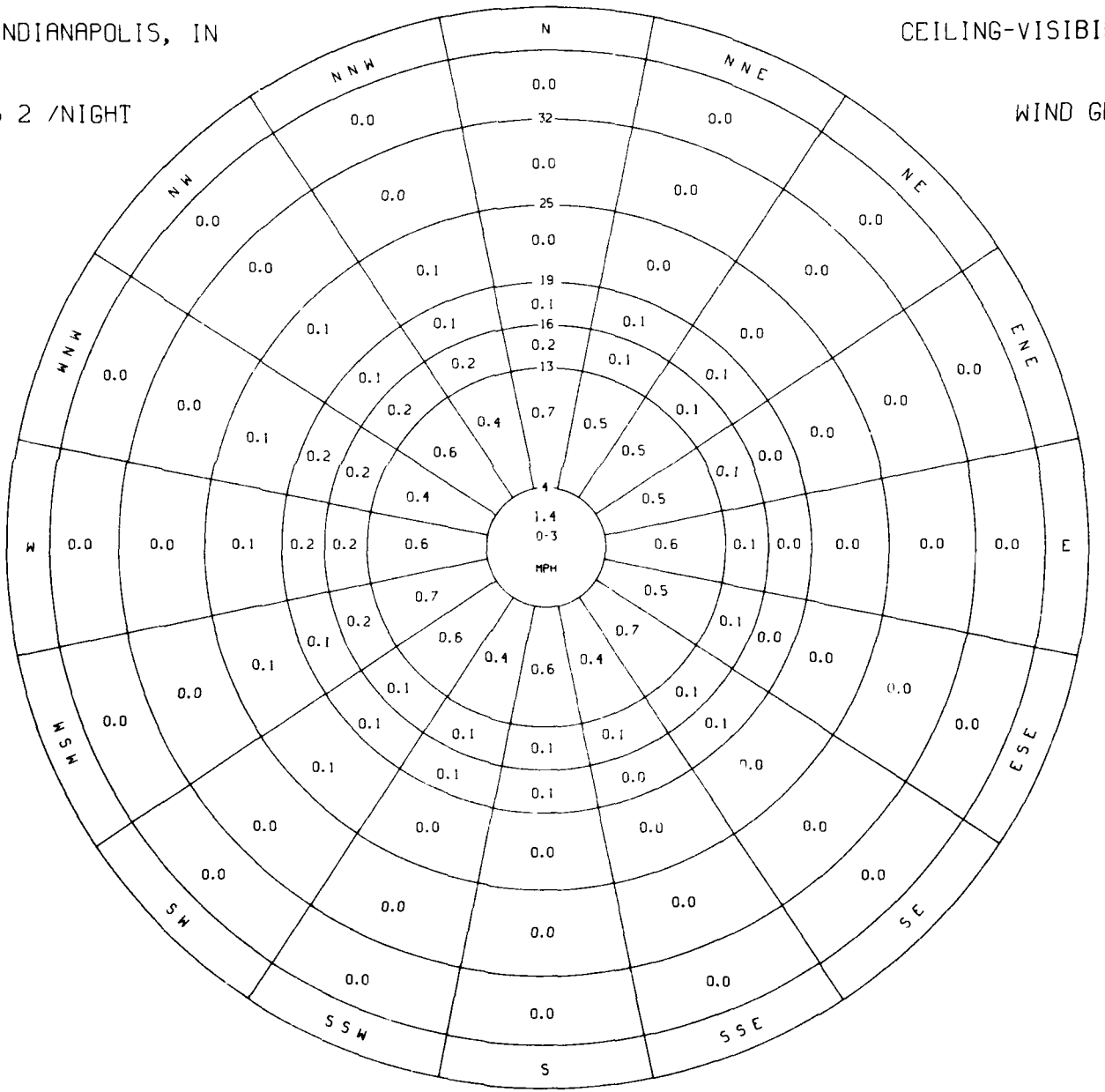
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.6	3.8	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.9	6.0	10.2
NNE	.0	.2	.5	3.0	.1	.9	.1	.4	.0	.2	.0	.0	.0	.0	.7	4.6	10.5
NE	.1	.6	.6	4.2	.1	.9	.0	.3	.0	.2	.0	.0	.0	.0	.9	6.2	9.4
ENE	.1	.5	.5	3.5	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.8	5.5	9.9
E	.1	.6	.6	4.0	.1	.9	.1	.4	.0	.1	.0	.0	.0	.0	.9	6.1	9.5
ESE	.1	.6	.7	4.4	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.9	6.2	9.0
SE	.1	.4	.7	4.5	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	1.0	6.6	9.7
SSE	.1	.4	.5	3.3	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.8	5.0	9.5
S	.1	.8	.8	5.0	.1	.9	.1	.4	.0	.2	.0	.0	.0	.0	1.1	7.4	9.2
SSW	.1	.4	.5	3.0	.1	.8	.1	.6	.0	.2	.0	.1	.0	.0	.8	5.0	10.6
SW	.1	.7	.7	4.5	.2	1.1	.1	.6	.1	.4	.0	.1	.0	.0	1.1	7.5	10.3
WSW	.1	.5	.5	3.2	.1	.9	.1	.8	.1	.6	.0	.2	.0	.1	1.0	6.4	12.1
W	.1	.6	.5	3.1	.2	1.4	.2	1.0	.1	.7	.0	.3	.0	.1	1.1	7.2	12.6
WNW	.1	.5	.4	2.6	.2	1.4	.2	1.4	.1	.8	.0	.3	.0	.0	1.1	7.0	13.4
NW	.1	.5	.4	2.7	.2	1.2	.2	1.0	.1	.9	.0	.2	.0	.1	1.0	6.5	13.0
NNW	.1	.3	.4	2.4	.1	.9	.1	.7	.1	.3	.0	.0	.0	.0	.7	4.7	11.7
CALM	.3	2.0													.3	2.0	
TOTAL	1.5	10.2	8.7	57.2	2.4	15.7	1.5	9.8	.8	5.5	.2	1.3	.1	.4	15.2	100	10.5

IND INDIANAPOLIS, IN

CEILING-VISIBILITY

CLASS 2 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 93819

NO. OBS.: 6211

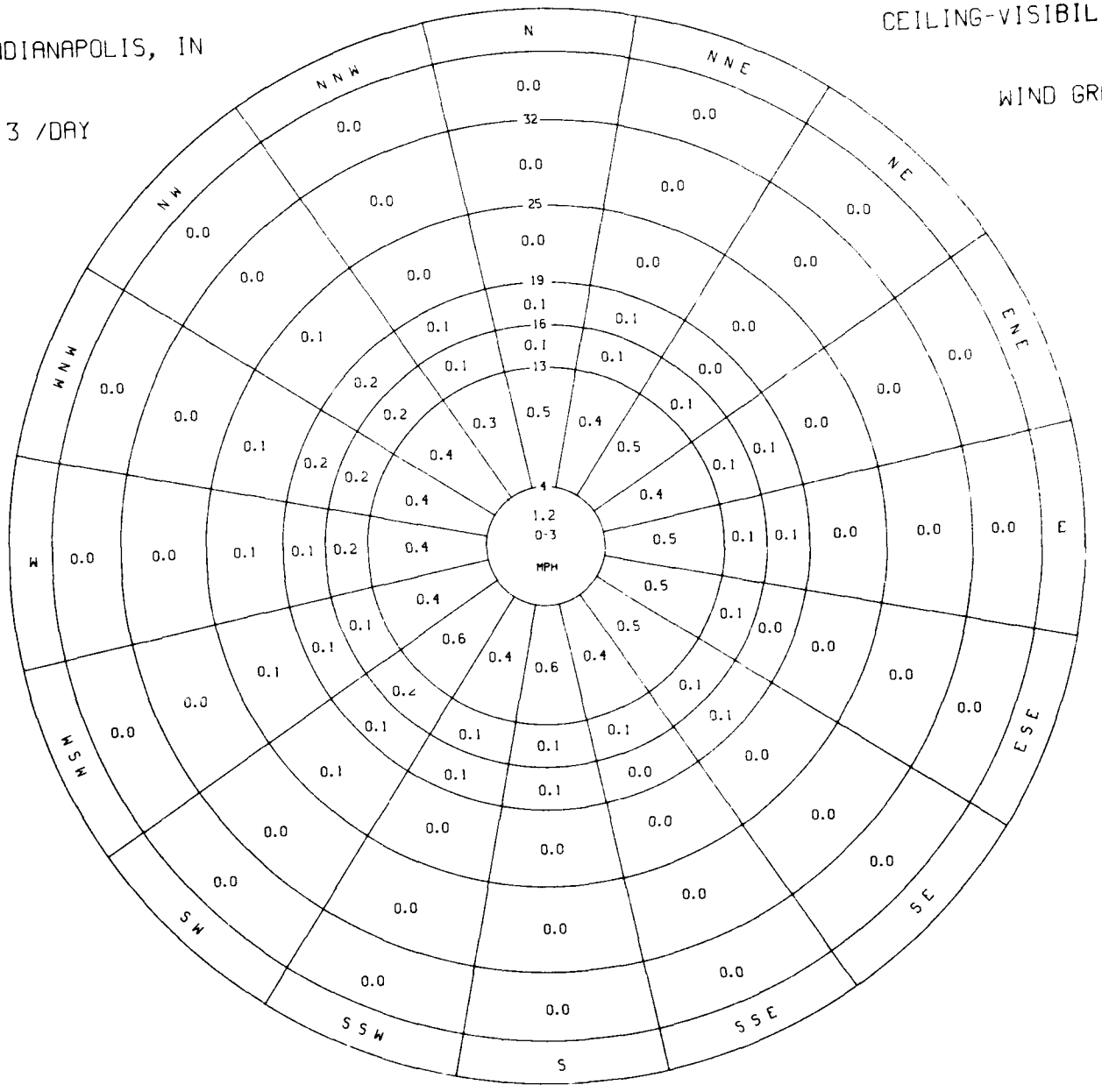
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.6	.7	4.8	.2	1.3	.1	.8	.0	.3	.0	.1	.0	.0	1.2	7.9	10.4
NNE	.0	.3	.5	3.3	.1	.8	.1	.5	.0	.3	.0	.1	.0	.0	.8	5.4	10.8
NE	.1	.5	.5	3.4	.1	.9	.1	.6	.0	.2	.0	.1	.0	.0	.8	5.7	10.4
ENE	.1	.4	.5	3.2	.1	.9	.0	.2	.0	.3	.0	.0	.0	.0	.8	5.1	10.2
E	.1	.5	.6	4.1	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.9	5.8	9.1
ESE	.1	.4	.5	3.7	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.7	5.0	8.9
SE	.1	.6	.7	4.4	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.9	6.2	8.9
SSE	.0	.3	.4	3.0	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.6	4.1	8.9
S	.1	.5	.6	3.8	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.8	5.5	9.3
SSW	.1	.4	.4	2.6	.1	.7	.1	.4	.0	.3	.0	.0	.0	.0	.7	4.4	10.5
SW	.1	.7	.6	3.9	.1	.9	.1	.8	.1	.5	.0	.1	.0	.0	1.0	6.9	10.8
WSW	.1	.4	.7	4.5	.2	1.0	.1	.7	.1	.5	.0	.3	.0	.0	1.1	7.4	11.1
W	.1	.5	.6	4.1	.2	1.4	.2	1.2	.1	.5	.0	.3	.0	.0	1.2	8.1	11.8
WNW	.1	.4	.4	3.0	.2	1.5	.2	1.2	.1	.9	.0	.3	.0	.1	1.1	7.4	13.4
NW	.1	.3	.6	3.7	.2	1.6	.1	1.0	.1	.7	.0	.2	.0	.0	1.1	7.6	12.4
NNW	.1	.4	.4	2.9	.2	1.2	.1	.7	.1	.4	.0	.1	.0	.0	.9	5.7	11.7
CALM	.3	1.9													.3	1.9	
TOTAL	1.4	9.1	8.8	58.4	2.3	15.6	1.4	9.5	.8	5.6	.2	1.6	.0	.3	15.0	100	10.5

IND INDIANAPOLIS, IN

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 93819

NO. OBS.: 6307

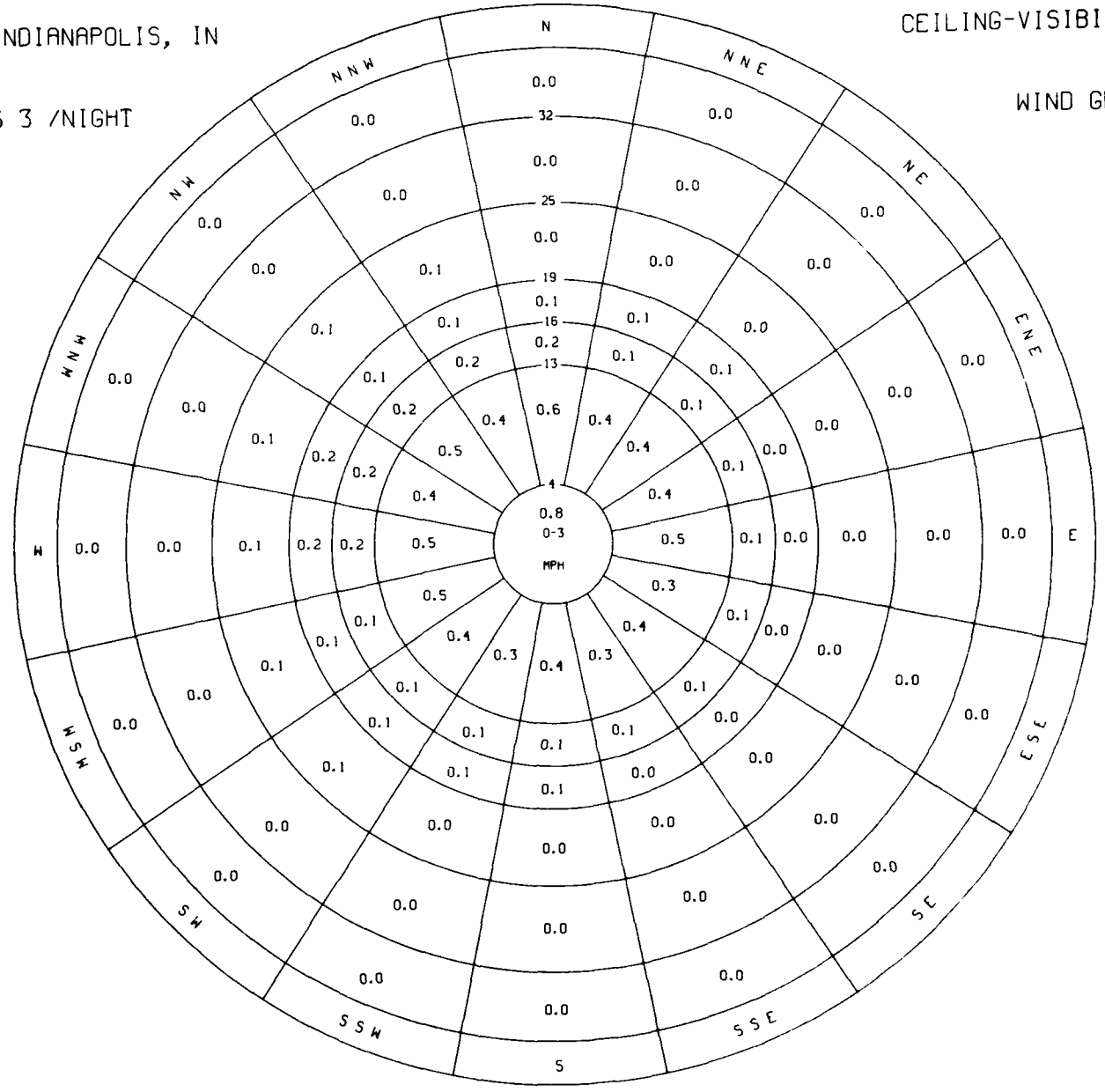
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.5	3.9	.1	1.0	.1	.6	.0	.1	.0	.0	.0	.0	.8	6.2	10.1
NNE	.0	.2	.4	3.1	.1	.9	.1	.4	.0	.2	.0	.0	.0	.0	.6	4.8	10.4
NE	.1	.5	.5	4.2	.1	.9	.0	.3	.0	.3	.0	.0	.0	.0	.8	6.1	9.6
ENE	.1	.5	.4	3.4	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.5	10.2
E	.1	.6	.5	3.7	.1	.9	.1	.4	.0	.1	.0	.0	.0	.0	.7	5.8	9.6
ESE	.1	.5	.5	3.8	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.7	5.5	9.2
SE	.0	.4	.5	3.7	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.7	5.7	10.0
SSE	.0	.3	.4	2.9	.1	.8	.0	.3	.0	.2	.0	.0	.0	.0	.6	4.5	9.9
S	.1	.7	.6	4.8	.1	1.0	.1	.5	.0	.3	.0	.0	.0	.0	.9	7.3	9.6
SSW	.0	.3	.4	2.9	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.7	5.1	11.1
SW	.1	.5	.6	4.4	.2	1.3	.1	.6	.1	.4	.0	.1	.0	.0	1.0	7.4	10.8
WSW	.1	.5	.4	3.2	.1	1.0	.1	.9	.1	.7	.0	.2	.0	.1	.9	6.7	12.6
W	.1	.6	.4	3.3	.2	1.6	.1	1.2	.1	.8	.0	.3	.0	.1	1.0	7.8	12.8
WNW	.1	.5	.4	2.8	.2	1.6	.2	1.6	.1	1.0	.0	.3	.0	.0	1.0	7.7	13.5
NW	.1	.5	.4	2.8	.2	1.3	.2	1.2	.1	.9	.0	.2	.0	.1	.9	7.0	13.2
NNW	.0	.3	.3	2.5	.1	1.0	.1	.7	.0	.3	.0	.0	.0	.0	.6	4.9	11.9
CALM	.2	1.8													.2	1.8	
TOTAL	1.2	9.1	7.1	55.5	2.2	16.8	1.4	10.7	.8	6.1	.2	1.4	.0	.3	12.8	100	10.8

IND INDIANAPOLIS, IN

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: [illegible]

CLASS 3 / NIGHT

STATION NUMBER: 93819

NO. OBS.: [illegible]

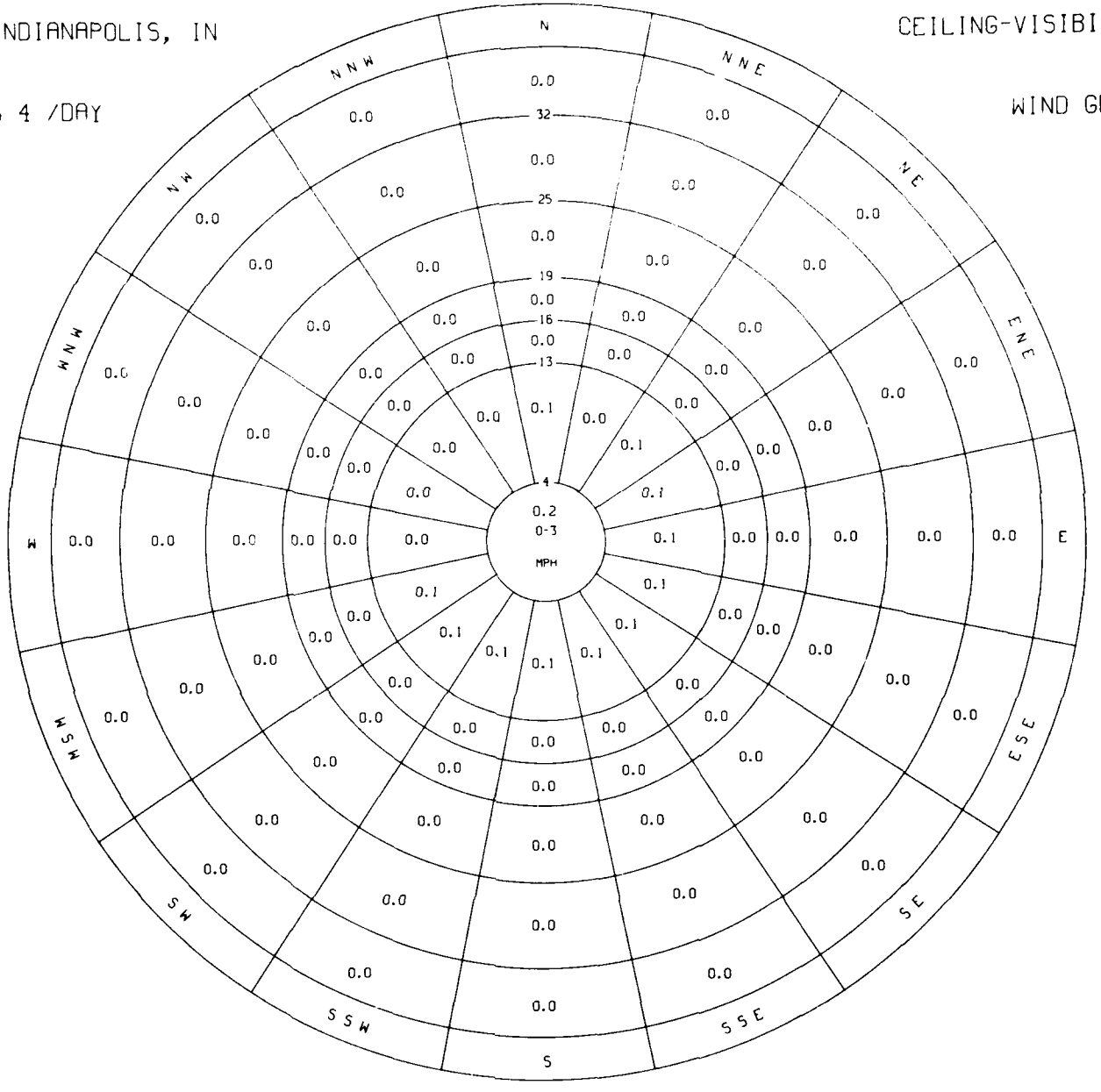
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.6	5.0	.2	1.5	.1	1.0	.0	.3	.0	.1	.0	.0	1.0	8.2	10.8
NNE	.0	.3	.4	3.4	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.7	5.6	10.7
NE	.1	.4	.4	3.6	.1	1.0	.1	.6	.0	.2	.0	.1	.0	.0	.7	5.9	10.7
ENE	.0	.3	.4	3.4	.1	1.1	.0	.3	.0	.4	.0	.0	.0	.0	.6	5.4	10.6
E	.1	.5	.5	4.1	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.7	5.8	9.2
ESE	.0	.3	.3	2.9	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.5	4.2	9.4
SE	.1	.5	.4	3.1	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.6	4.7	9.3
SSE	.0	.2	.3	2.2	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4	3.2	9.8
S	.0	.4	.4	3.4	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.6	5.1	10.1
SSW	.0	.2	.3	2.5	.1	.8	.1	.4	.0	.3	.0	.0	.0	.0	.5	4.2	11.2
SW	.1	.5	.4	3.6	.1	.9	.1	.9	.1	.7	.0	.1	.0	.0	.8	6.7	11.6
WSW	.0	.3	.5	4.0	.1	1.2	.1	.8	.1	.7	.0	.3	.0	.0	.9	7.2	12.0
W	.1	.5	.5	4.5	.2	1.7	.2	1.5	.1	.7	.0	.3	.0	.0	1.1	9.2	12.2
WNW	.0	.3	.4	3.2	.2	1.9	.2	1.5	.1	1.2	.0	.3	.0	.1	1.0	8.4	14.0
NW	.0	.3	.5	4.0	.2	1.9	.1	1.1	.1	.9	.0	.3	.0	.0	1.0	8.5	12.9
NNW	.0	.3	.4	3.1	.2	1.4	.1	.9	.1	.4	.0	.1	.0	.0	.7	6.1	12.0
CALM	.2	1.4													.2	1.4	
TOTAL	.8	7.0	6.6	55.8	2.1	17.5	1.3	11.0	.8	6.7	.2	1.7	.0	.3	11.9	100	11.1

IND INDIANAPOLIS, IN

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 93819

NO. OBS.: 772

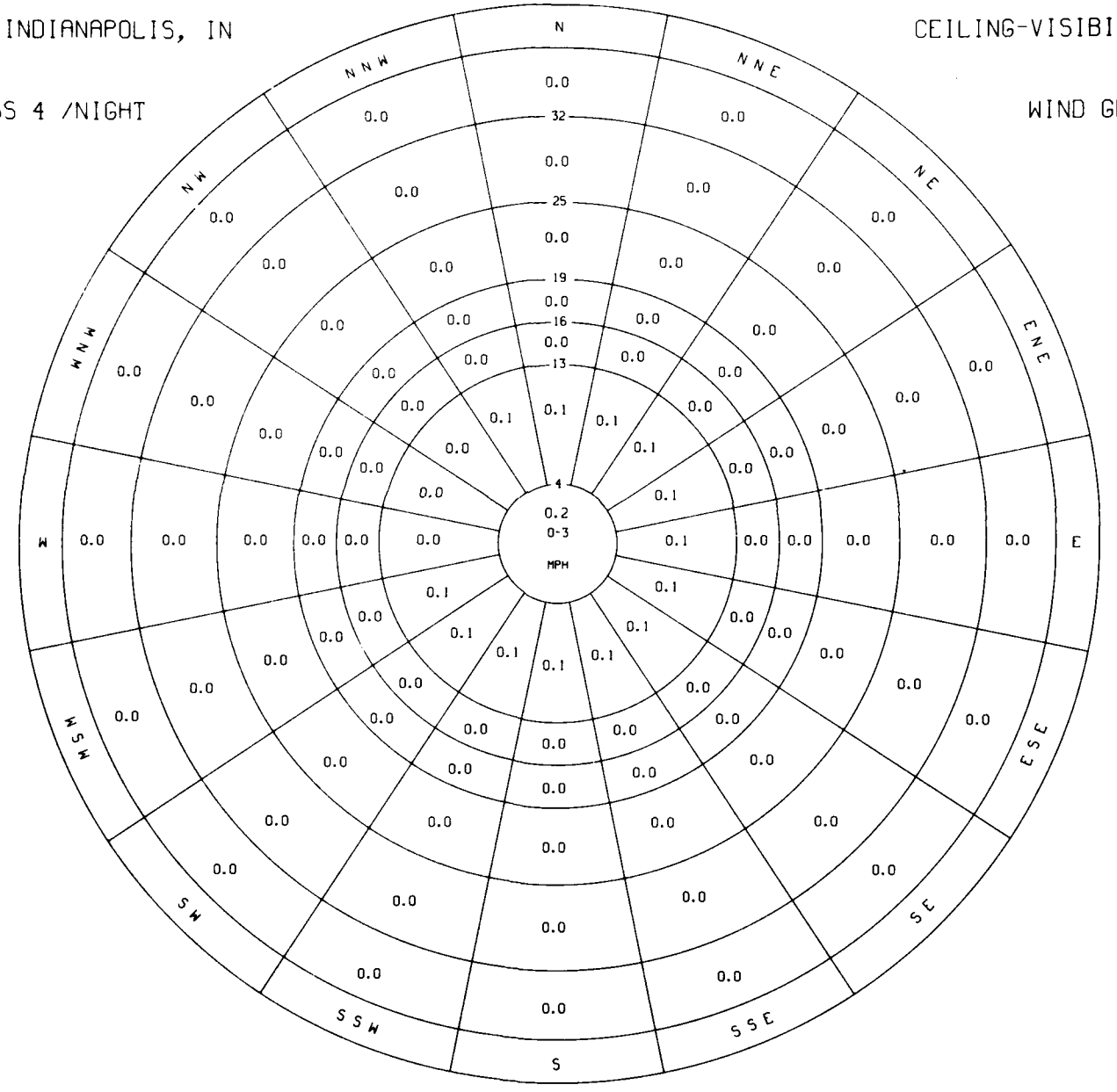
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.1	3.9	.0	.9	.0	.6	.0	.5	.0	.0	.0	.0	.1	6.5	10.5
NNE	.0	.0	.0	2.2	.0	.8	.0	.6	.0	.0	.0	.0	.0	.0	.1	3.6	11.0
NE	.0	.6	.1	5.4	.0	1.0	.0	.3	.0	.1	.0	.0	.0	.0	.1	7.5	8.9
ENE	.0	.0	.1	3.9	.0	.9	.0	.5	.0	.0	.0	.0	.0	.0	.1	5.3	9.9
E	.0	.8	.1	5.7	.0	1.4	.0	.6	.0	.3	.0	.0	.0	.0	.1	8.8	9.7
ESE	.0	.6	.1	8.3	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.2	10.0	8.3
SE	.0	.4	.1	8.3	.0	1.3	.0	.5	.0	.3	.0	.0	.0	.0	.2	10.8	9.5
SSE	.0	.5	.1	5.4	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.1	7.1	9.1
S	.0	1.2	.1	5.7	.0	.8	.0	.1	.0	.0	.0	.0	.0	.0	.1	7.8	7.1
SSW	.0	.4	.1	3.8	.0	.1	.0	.3	.0	.0	.0	.0	.0	.0	.1	4.5	8.2
SW	.0	1.6	.1	4.5	.0	.3	.0	.4	.0	.1	.0	.0	.0	.0	.1	6.9	8.0
WSW	.0	.6	.1	3.2	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	4.7	8.1
W	.0	.8	.0	2.2	.0	.1	.0	.3	.0	.1	.0	.1	.0	.3	.1	3.9	11.1
WNW	.0	.3	.0	1.7	.0	.5	.0	.4	.0	.3	.0	.1	.0	.0	.1	3.2	11.5
NW	.0	.4	.0	1.7	.0	.6	.0	.3	.0	.5	.0	.1	.0	.3	.1	3.9	13.4
NNW	.0	.5	.0	2.1	.0	.9	.0	.4	.0	.3	.0	.0	.0	.0	.1	4.1	9.9
CALM	.0	1.4													.0	1.4	
TOTAL	.2	10.6	1.1	68.0	.2	11.8	.1	6.2	.0	2.5	.0	.4	.0	.5	1.6	100	9.2

IND INDIANAPOLIS, IN

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 93819

NO. OBS.: 764

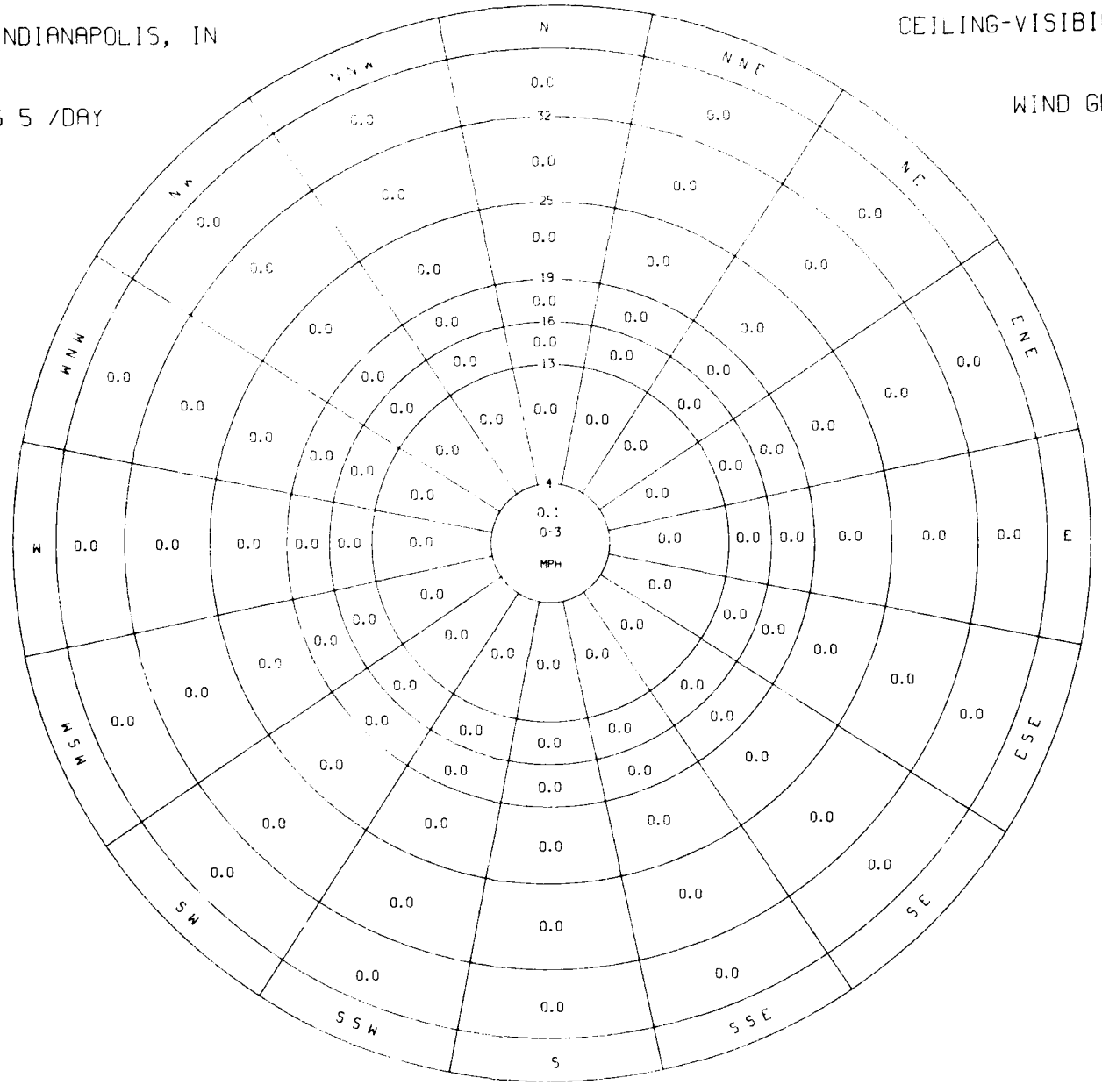
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.0	.1	5.5	.0	.9	.0	.4	.0	.3	.0	.1	.0	.0	.2	8.2	9.4
NNE	.0	.1	.1	3.9	.0	.5	.0	.9	.0	.5	.0	.4	.0	.0	.1	6.4	12.2
NE	.0	.4	.1	3.7	.0	.8	.0	.9	.0	.0	.0	.0	.0	.0	.1	5.8	10.3
ENE	.0	.4	.1	2.9	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1	3.9	8.9
E	.0	.1	.1	4.7	.0	1.2	.0	.0	.0	.0	.0	.1	.0	.0	.1	6.2	9.4
ESE	.0	.4	.1	5.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.9	8.8
SE	.0	.7	.1	7.9	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.2	9.4	8.4
SSE	.0	.8	.1	4.3	.0	.9	.0	.1	.0	.0	.0	.0	.0	.0	.1	6.2	7.8
S	.0	.4	.1	4.7	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1	5.8	8.1
SSW	.0	.7	.1	3.8	.0	.5	.0	.7	.0	.4	.0	.1	.0	.0	.1	6.2	9.7
SW	.0	1.4	.1	4.8	.0	.9	.0	.4	.0	.1	.0	.0	.0	.0	.1	7.7	8.4
WSW	.0	.4	.1	7.5	.0	.5	.0	.4	.0	.1	.0	.0	.0	.0	.2	8.9	8.3
W	.0	.3	.0	2.6	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.1	3.4	8.4
WNW	.0	.1	.0	2.2	.0	.5	.0	.1	.0	.0	.0	.0	.0	.1	.1	3.1	9.5
NW	.0	.4	.0	2.5	.0	.8	.0	.5	.0	.1	.0	.0	.0	.0	.1	4.3	10.3
NNW	.0	.9	.1	3.3	.0	.7	.0	.3	.0	.0	.0	.4	.0	.0	.1	5.5	9.9
CALM	.0	2.1													.0	2.1	
TOTAL	.2	10.6	1.3	69.9	.2	10.9	.1	5.4	.0	1.8	.0	1.3	.0	.1	1.8	100	9.0

IND INDIANAPOLIS, IN

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 93819

NO. OBS.: 167

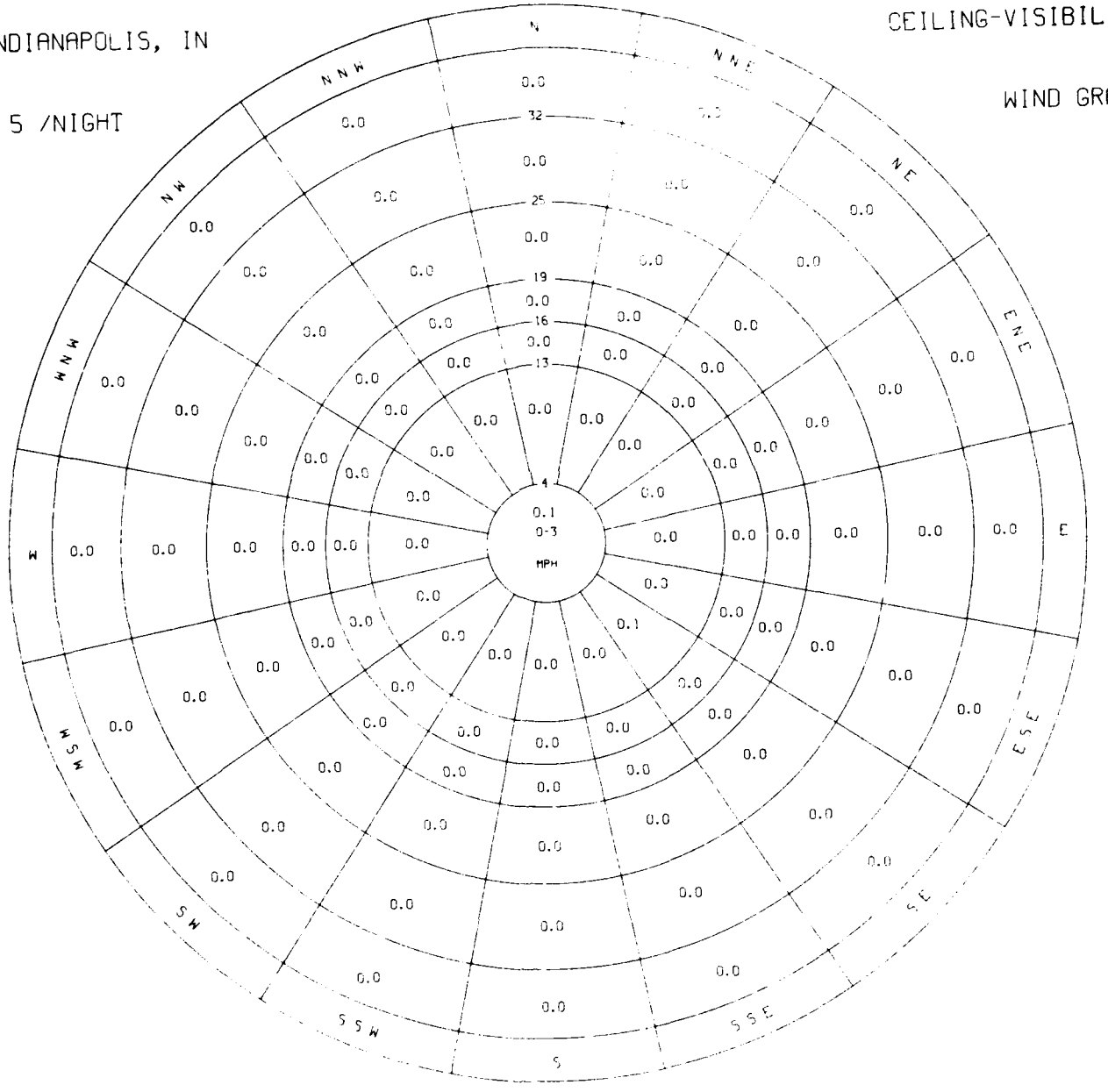
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	3.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	.6	.0	4.8	13.6
NNE	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	9.4
NE	.0	.0	.0	3.0	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.6	.0	5.4	12.7
ENE	.0	1.2	.0	3.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	6.3
E	.0	1.2	.0	4.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	7.2
ESE	.0	1.8	.0	7.8	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	10.8	8.1
SE	.0	.6	.0	9.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.4	8.4
SSE	.0	1.8	.0	6.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	6.6
S	.0	1.8	.0	7.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	6.7
SSW	.0	1.8	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.0
SW	.0	3.0	.0	7.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.2	5.4
WSW	.0	.6	.0	2.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.8
W	.0	1.2	.0	2.4	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	4.2	7.9
WNW	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	2.4	15.2
NW	.0	.6	.0	3.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	4.8	9.1
NNW	.0	.6	.0	2.4	.0	.0	.0	.0	.0	.6	.0	.0	.0	.6	.0	4.2	12.4
CALM	.0	2.4													.0	2.4	
TOTAL	.1	19.8	.2	66.5	.0	6.0	.0	1.8	.0	3.0	.0	1.2	.0	1.8	.3	100	8.2

IND INDIANAPOLIS, IN

CEILING-VISIBILITY

CLASS 5 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 93819

NO. OBS.: 255

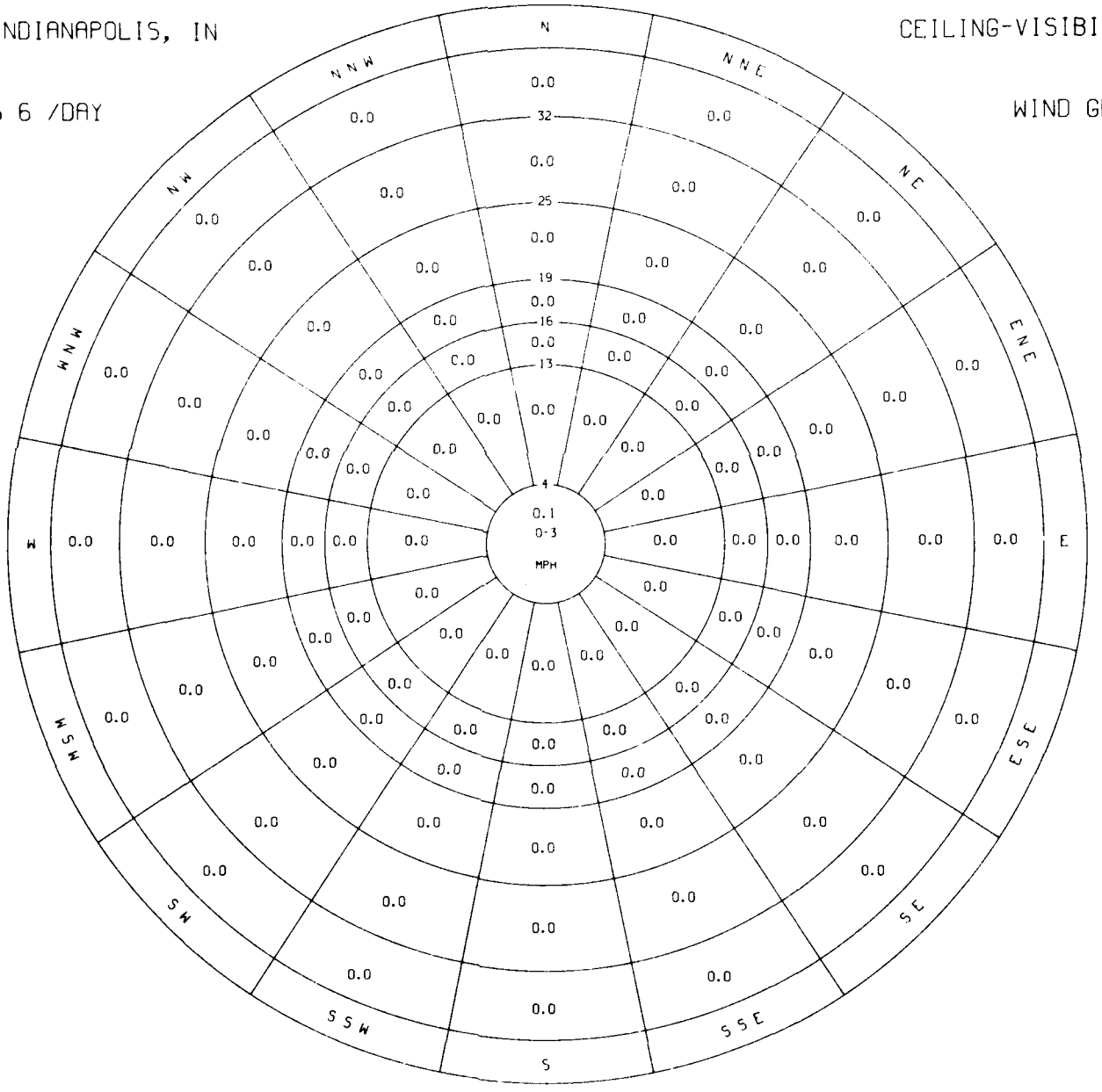
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.2	.0	4.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	6.3	6.6
NNE	.0	.0	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	10.5
NE	.0	.4	.0	2.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	8.4
ENE	.0	.8	.0	2.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	7.0
E	.0	1.6	.0	3.9	.0	.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	6.7	8.6
ESE	.0	.8	.0	5.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	7.0
SE	.0	2.0	.1	11.8	.0	1.6	.0	1.2	.0	.0	.0	.0	.0	.0	.1	16.5	8.9
SSE	.0	.8	.0	7.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.4	7.3
S	.0	.8	.0	5.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	7.6
SSW	.0	1.2	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.9
SW	.0	1.6	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.1
WSW	.0	.4	.0	4.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	7.9
W	.0	.8	.0	3.5	.0	.4	.0	.0	.0	.0	.0	.8	.0	.0	.0	5.5	10.1
WNW	.0	1.6	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.0	3.9	7.2
NW	.0	.8	.0	4.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.9	7.4
NNW	.0	.4	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.4	.0	2.0	13.0
CALM	.0	5.5													.0	5.5	
TOTAL	.1	20.4	.4	68.2	.0	7.1	.0	2.7	.0	.0	.0	.8	.0	.8	.6	100	7.5

IND INDIANAPOLIS, IN

CEILING-VISIBILITY

CLASS 6 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 93819

NO. OBS.: 202

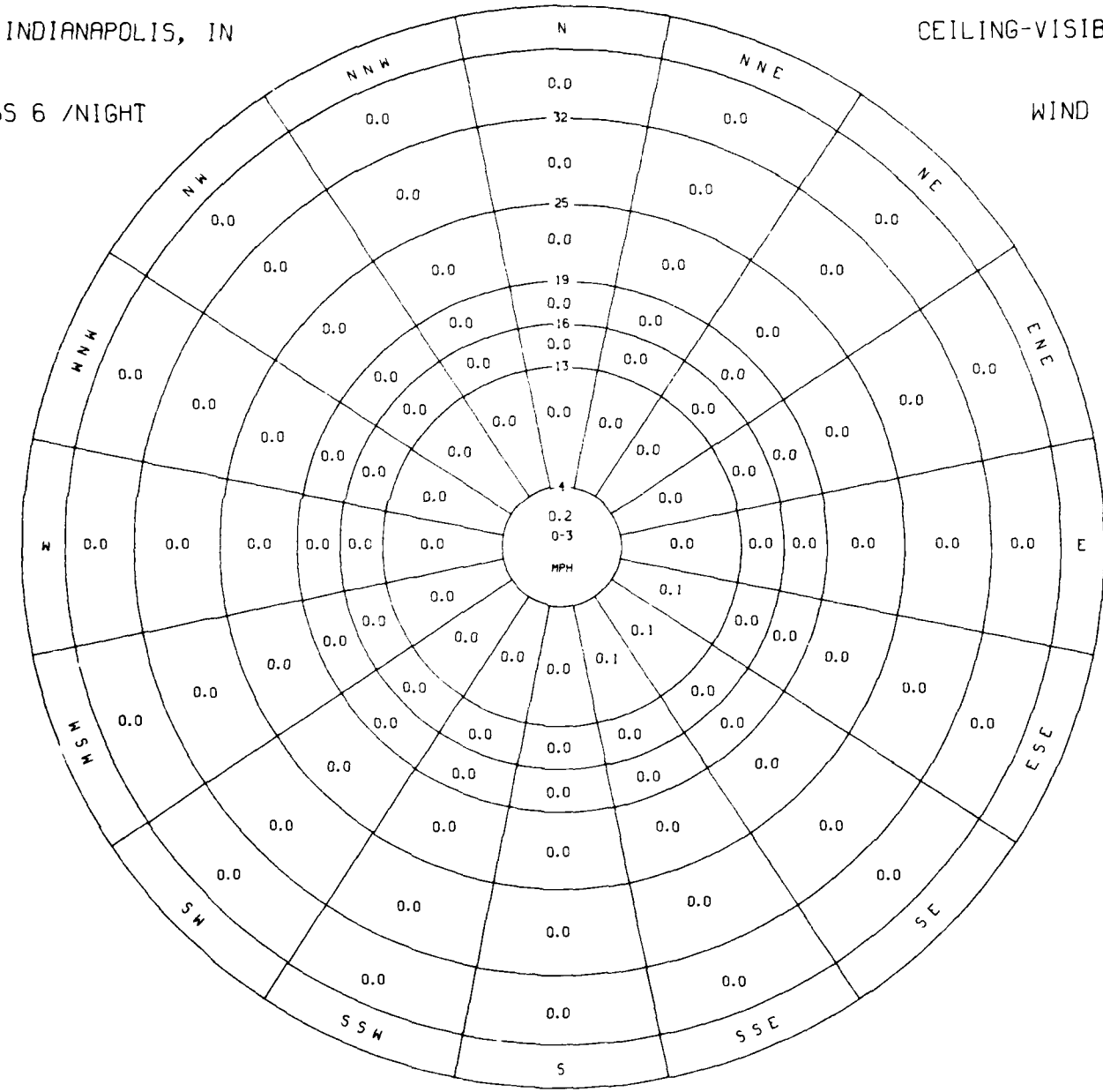
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	1.0	13.0
NNE	.0	.0	.0	2.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.5	10.6
NE	.0	3.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	4.3
ENE	.0	1.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	5.3
E	.0	1.5	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	6.5
ESE	.0	1.0	.0	6.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	7.3
SE	.0	3.0	.0	11.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	15.8	7.7
SSE	.0	1.5	.0	5.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	6.9
S	.0	2.0	.0	6.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	6.2
SSW	.0	2.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	5.2
SW	.0	2.0	.0	6.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	6.8
WSW	.0	2.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5	.0	5.9	9.0
W	.0	1.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	4.0	7.6
WNW	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	3.5	8.7
NW	.0	2.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	4.0
NNW	.0	.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	5.3
CALM	.0	7.9													.0	7.9	
TOTAL	.1	32.2	.3	62.4	.0	2.5	.0	.5	.0	1.0	.0	1.0	.0	.5	.4	100	6.4

IND INDIANAPOLIS, IN

CEILING-VISIBILITY

CLASS 6 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: IND INDIANAPOLIS, IN

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 93819

NO. OBS.: 277

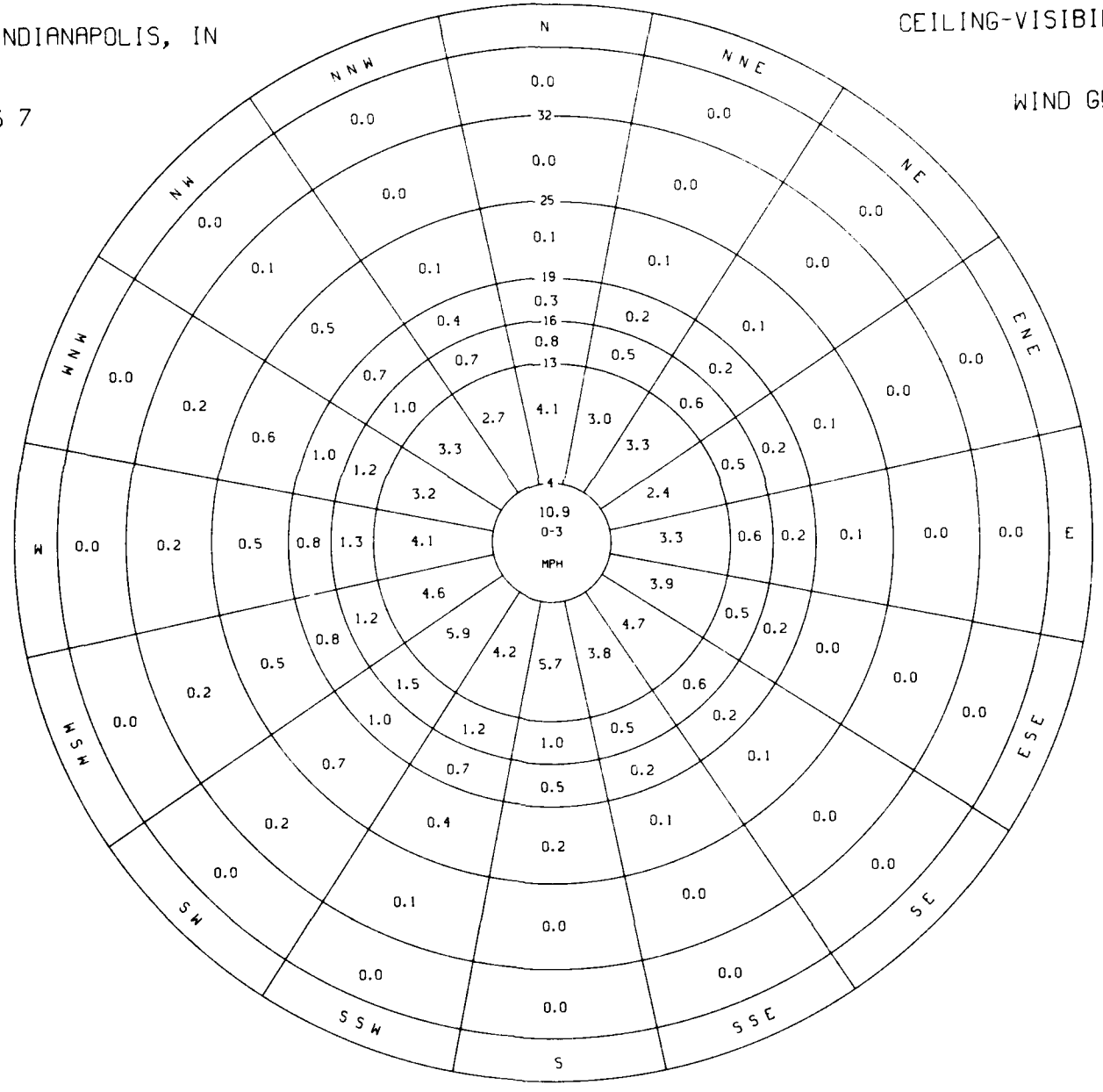
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.4	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.9
NNE	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.2
NE	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	3.5
ENE	.0	1.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	5.4
E	.0	1.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	4.6
ESE	.0	2.2	.1	9.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	11.9	7.0
SE	.0	1.8	.1	12.6	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	15.2	7.5
SSE	.0	1.1	.1	8.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.7	7.2
S	.0	3.2	.0	6.9	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	10.5	5.8
SSW	.0	1.8	.0	1.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	5.5
SW	.0	1.1	.0	5.4	.0	.4	.0	.0	.0	.4	.0	.0	.0	.4	.1	7.6	8.3
WSW	.0	2.2	.0	5.1	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.1	7.9	6.8
W	.0	1.8	.0	2.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.7	.0	5.8	9.4
WNW	.0	1.1	.0	2.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.6	6.0
NW	.0	1.1	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.2
NNW	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.8
CALM	.0	6.1													.0	6.1	
TOTAL	.2	30.7	.4	63.9	.0	2.9	.0	.7	.0	.4	.0	.4	.0	1.1	.7	100	6.3

IND INDIANAPOLIS, IN

CLASS 7

CEILING-VISIBILITY

WIND GRAPH


N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0.0
32
0.0
0.0
25
0.1
0.1
19
0.3
0.2
16
0.8
0.5
13
0.7
1.0
2.7
4.1
3.0
3.3
0.6
0.2
0.1
0.0
0.0
4
10.9
0-3
MPH
3.3
2.4
0.5
0.2
0.1
0.0
0.0
3.9
4.7
3.8
5.7
4.2
5.9
4.6
1.2
0.8
0.5
0.2
0.0
0.0
0.0
1.5
1.0
1.2
1.0
0.5
0.2
0.1
0.0
0.0
0.7
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0.2
0.1
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0.0
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0.2
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0.8
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4.1
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3.3
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1.0
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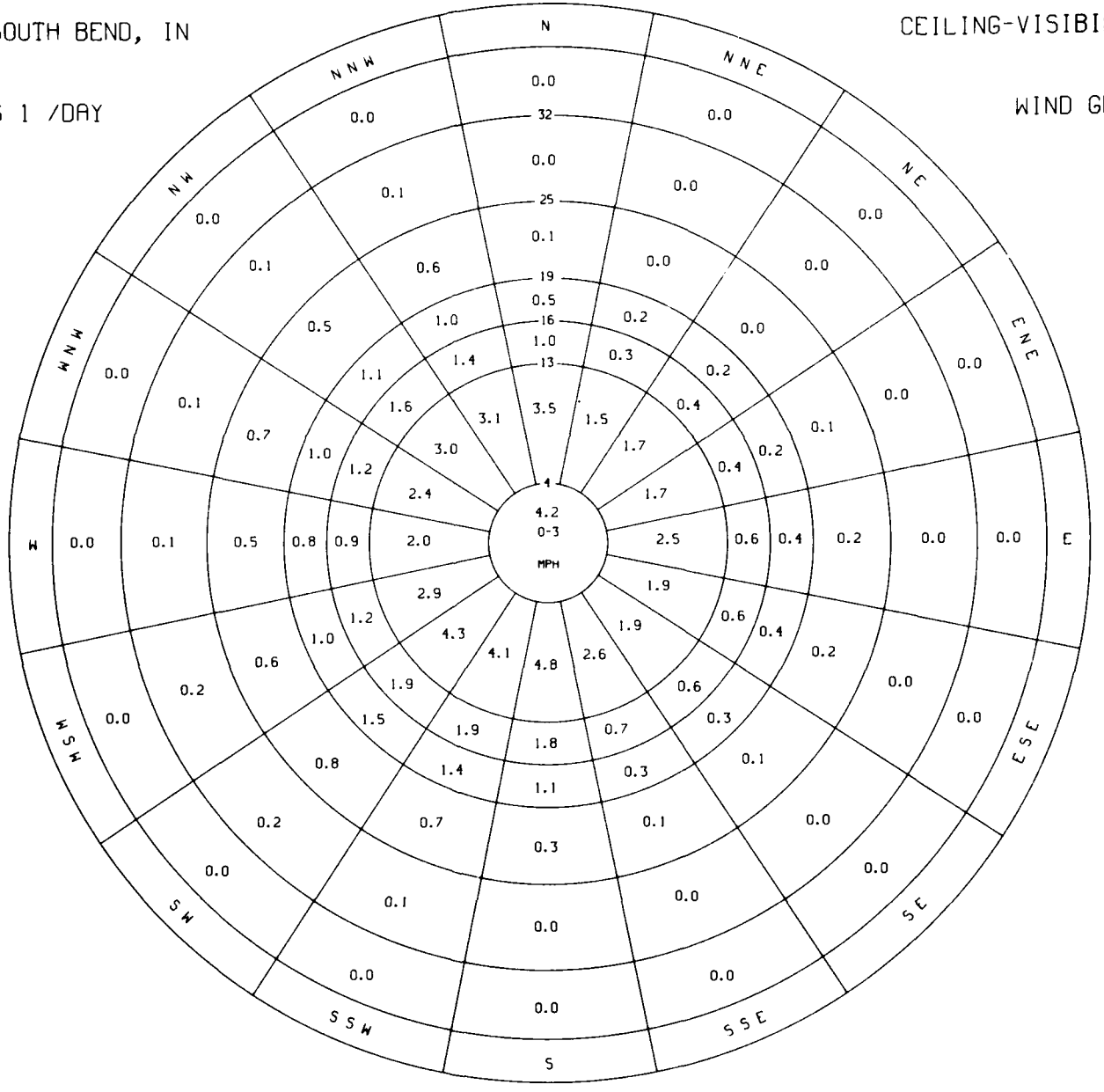
SBN SOUTH BEND, IN

CEILING-VISIBILITY

CLASS 1 /DAY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 14848

NO. OBS.: 39760

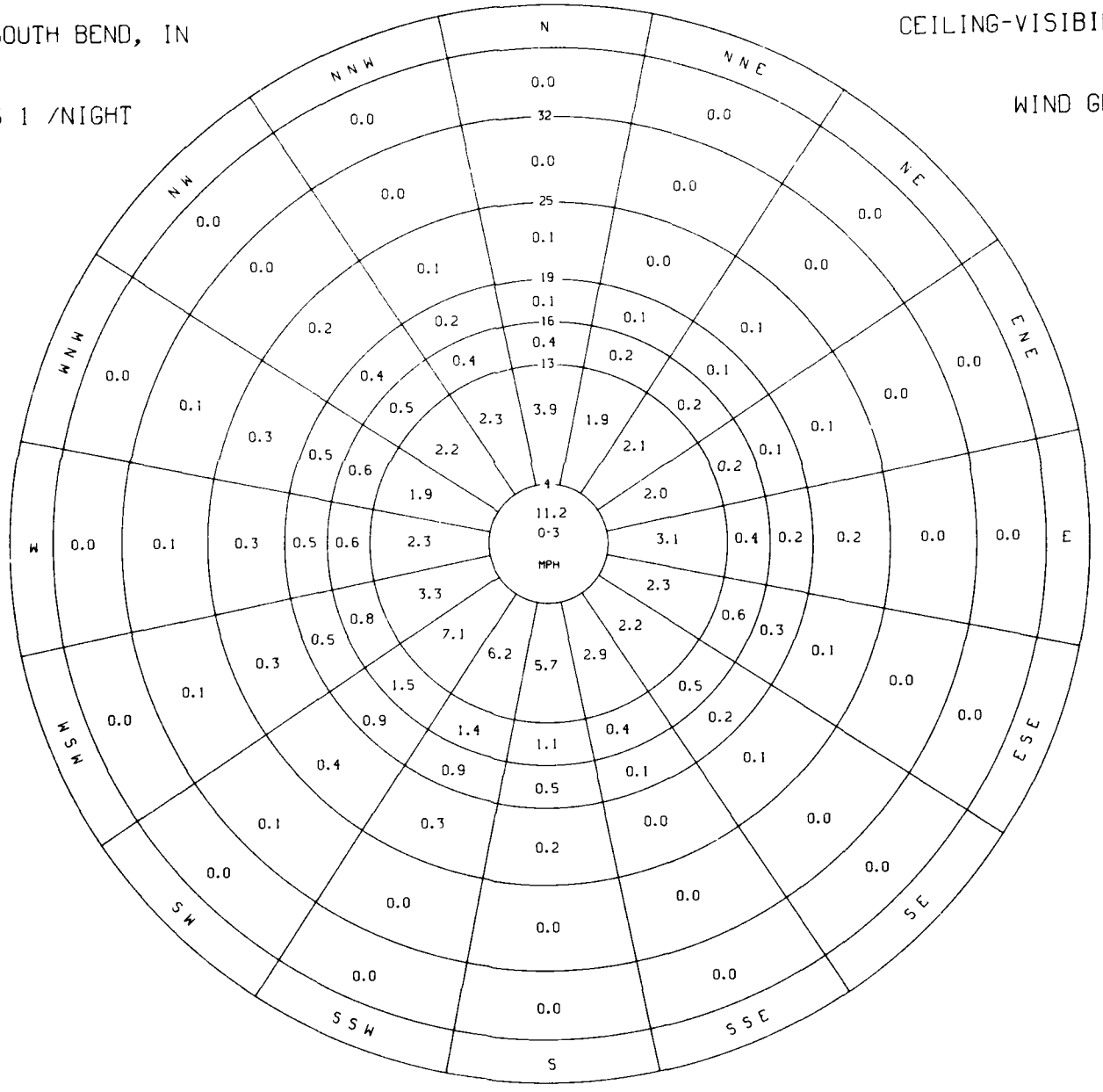
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.2	3.5	4.3	1.0	1.2	.5	.6	.1	.2	.0	.0	.0	.0	5.4	6.5	10.6
NNE	.1	.1	1.5	1.8	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	2.1	2.5	9.9
NE	.1	.1	1.7	2.0	.4	.5	.2	.2	.0	.1	.0	.0	.0	.0	2.4	2.9	9.8
ENE	.1	.1	1.7	2.1	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.5	3.1	10.4
E	.2	.2	2.5	3.1	.6	.7	.4	.4	.2	.2	.0	.0	.0	.0	3.9	4.7	10.4
ESE	.1	.1	1.9	2.3	.6	.7	.4	.5	.2	.2	.0	.0	.0	.0	3.1	3.8	11.2
SE	.1	.1	1.9	2.3	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.0	3.6	10.8
SSE	.1	.2	2.6	3.2	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	3.8	4.6	10.1
S	.2	.3	4.8	5.9	1.8	2.1	1.1	1.3	.3	.4	.0	.0	.0	.0	8.3	10.0	11.3
SSW	.1	.2	4.1	4.9	1.9	2.3	1.4	1.7	.7	.8	.1	.1	.0	.0	8.3	10.1	12.6
SW	.2	.3	4.3	5.2	1.9	2.3	1.5	1.8	.8	1.0	.2	.2	.0	.0	8.9	10.8	12.7
WSW	.1	.1	2.9	3.5	1.2	1.5	1.0	1.2	.6	.7	.2	.2	.0	.0	6.0	7.3	13.0
W	.1	.2	2.0	2.4	.9	1.1	.8	.9	.5	.6	.1	.2	.0	.0	4.5	5.4	13.0
WNW	.1	.1	2.4	3.0	1.2	1.5	1.0	1.2	.7	.8	.1	.1	.0	.0	5.5	6.7	13.3
NW	.2	.2	3.0	3.7	1.6	1.9	1.1	1.4	.5	.7	.1	.1	.0	.0	6.5	7.9	12.6
NNW	.1	.1	3.1	3.8	1.4	1.7	1.0	1.2	.6	.7	.1	.1	.0	.0	6.2	7.5	12.6
CALM	2.2	2.6													2.2	2.6	
TOTAL	4.2	5.1	43.9	53.2	16.5	20.0	11.2	13.6	5.6	6.8	1.0	1.2	.1	.1	82.5	100	11.6

SBN SOUTH BEND, IN

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 14848

NO. OBS.: 34436

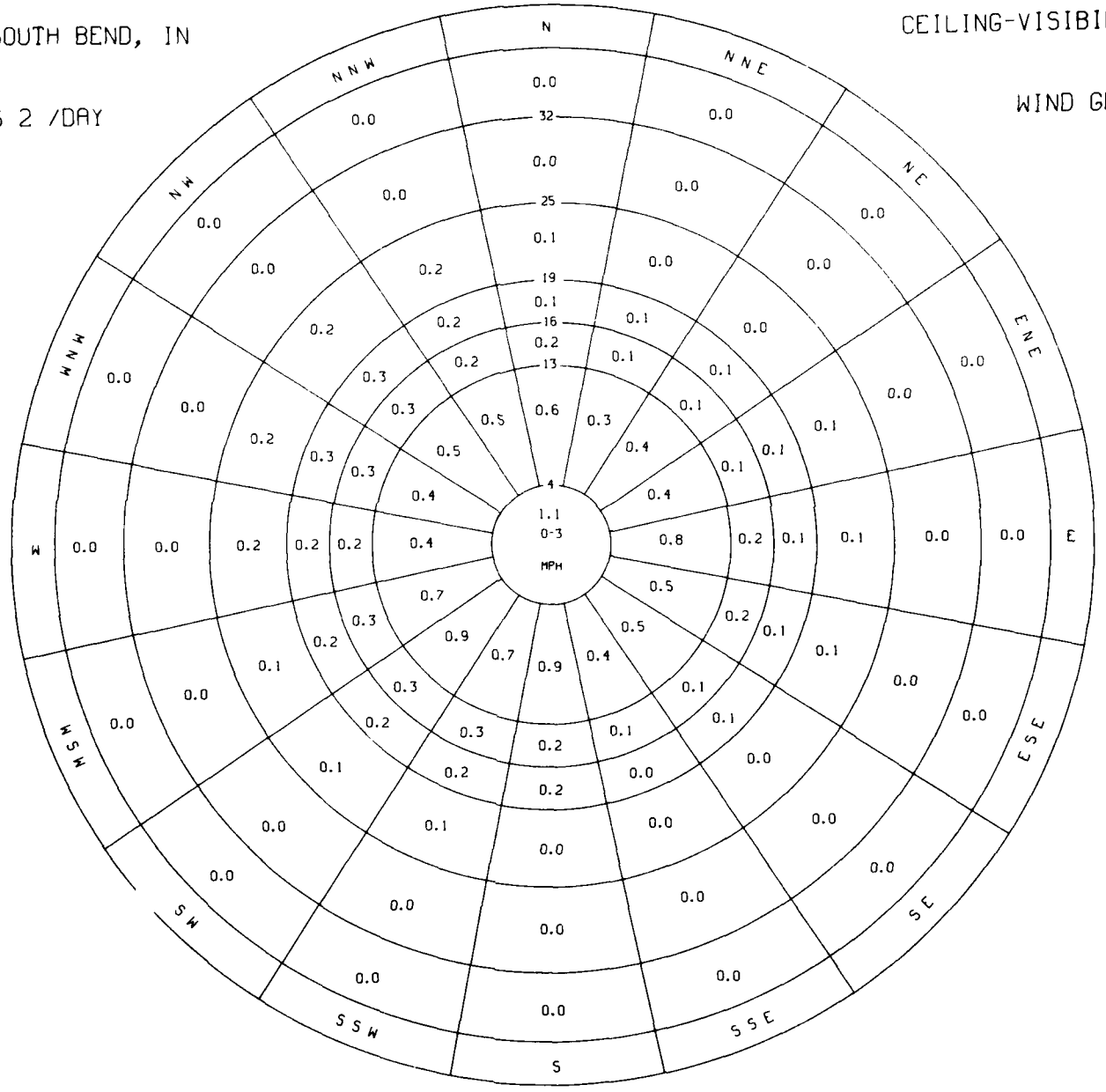
DIR	SPEED GROUPS (MPH)														TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.6	3.9	4.8	.4	.4	.1	.2	.1	.1	.0	.0	.0	.0	5.0	6.1	7.9
NNE	.2	.2	1.9	2.3	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.4	2.9	8.0
NE	.3	.4	2.1	2.6	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.8	3.5	7.9
ENE	.2	.3	2.0	2.4	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.6	3.2	8.3
E	.3	.4	3.1	3.9	.4	.5	.2	.3	.2	.2	.0	.0	.0	.0	4.2	5.2	8.9
ESE	.2	.2	2.3	2.8	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	3.5	4.3	10.1
SE	.2	.3	2.2	2.7	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	3.2	3.9	9.6
SSE	.2	.3	2.9	3.6	.4	.5	.1	.2	.0	.1	.0	.0	.0	.0	3.8	4.6	8.8
S	.5	.6	5.7	7.0	1.1	1.3	.5	.6	.2	.2	.0	.0	.0	.0	7.9	9.8	9.4
SSW	.3	.4	6.2	7.7	1.4	1.7	.9	1.1	.3	.4	.0	.0	.0	.0	9.1	11.2	10.4
SW	.4	.5	7.1	8.7	1.5	1.8	.9	1.1	.4	.4	.1	.1	.0	.0	10.3	12.7	10.3
WSW	.3	.3	3.3	4.1	.8	1.0	.5	.6	.3	.4	.1	.1	.0	.0	5.3	6.5	10.6
W	.3	.3	2.3	2.8	.6	.7	.5	.6	.3	.4	.1	.1	.0	.0	4.0	4.9	11.0
WNW	.2	.2	1.9	2.3	.6	.8	.5	.7	.3	.4	.1	.1	.0	.0	3.6	4.4	11.7
NW	.2	.3	2.2	2.7	.5	.7	.4	.5	.2	.3	.0	.1	.0	.0	3.6	4.4	10.7
NNW	.3	.4	2.3	2.8	.4	.5	.2	.3	.1	.2	.0	.0	.0	.0	3.4	4.1	9.3
CALM	6.6	8.1													6.6	8.1	
TOTAL	11.2	13.7	51.5	63.3	9.6	11.8	5.8	7.1	2.7	3.3	.5	.6	.1	.1	81.3	100	8.9

SBN SOUTH BEND, IN

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14848

NO. OBS.: 8428

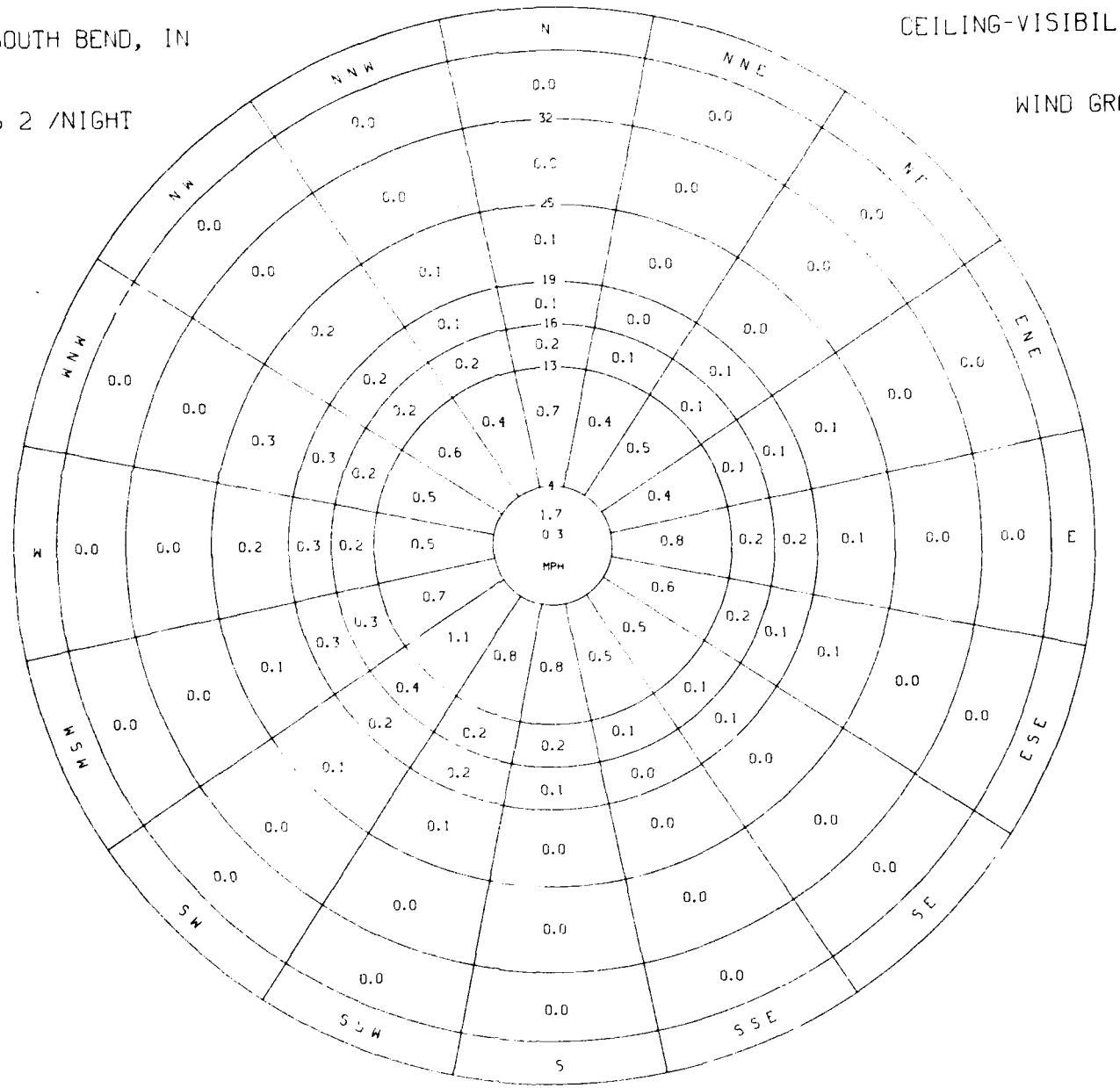
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.6	3.3	.2	1.1	.1	.7	.1	.3	.0	.0	.0	.0	1.0	5.6	11.6
NNE	.0	.0	.3	1.7	.1	.6	.1	.4	.0	.2	.0	.0	.0	.0	.5	3.0	11.4
NE	.0	.2	.4	2.4	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.7	3.8	10.6
ENE	.0	.1	.4	2.2	.1	.7	.1	.5	.1	.3	.0	.0	.0	.0	.7	3.9	11.5
E	.0	.2	.8	4.3	.2	1.1	.1	.8	.1	.4	.0	.1	.0	.0	1.2	7.0	11.0
ESE	.0	.1	.5	2.8	.2	1.0	.1	.8	.1	.4	.0	.0	.0	.0	.9	5.2	12.0
SE	.0	.2	.5	2.7	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.8	4.4	11.1
SSE	.0	.1	.4	2.6	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.6	3.7	10.2
S	.0	.2	.9	5.0	.2	1.4	.2	.9	.0	.3	.0	.0	.0	.0	1.4	7.8	10.7
SSW	.0	.2	.7	4.1	.3	1.5	.2	1.0	.1	.3	.0	.0	.0	.0	1.3	7.2	11.3
SW	.0	.3	.9	5.1	.3	1.9	.2	1.2	.1	.6	.0	.1	.0	.0	1.6	9.3	11.9
WSW	.0	.1	.7	3.9	.3	1.5	.2	1.2	.1	.8	.0	.2	.0	.0	1.4	7.9	12.5
W	.0	.1	.4	2.1	.2	1.2	.2	1.1	.2	1.1	.0	.1	.0	.0	1.0	5.8	13.9
WNW	.0	.1	.4	2.5	.3	1.8	.3	1.9	.2	1.4	.0	.2	.0	.1	1.4	7.9	14.8
NW	.0	.3	.5	3.0	.3	1.6	.3	1.8	.2	1.2	.0	.2	.0	.0	1.4	8.0	14.0
NNW	.0	.1	.5	2.7	.2	1.2	.2	1.0	.2	.9	.0	.2	.0	.0	1.1	6.2	13.7
CALM	.6	3.4													.6	3.4	
TOTAL	1.1	6.1	8.8	50.4	3.3	18.8	2.5	14.4	1.5	8.7	.2	1.4	.0	.2	17.5	100	11.8

SBN SOUTH BEND, IN

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 14848

NO. OBS.: 7944

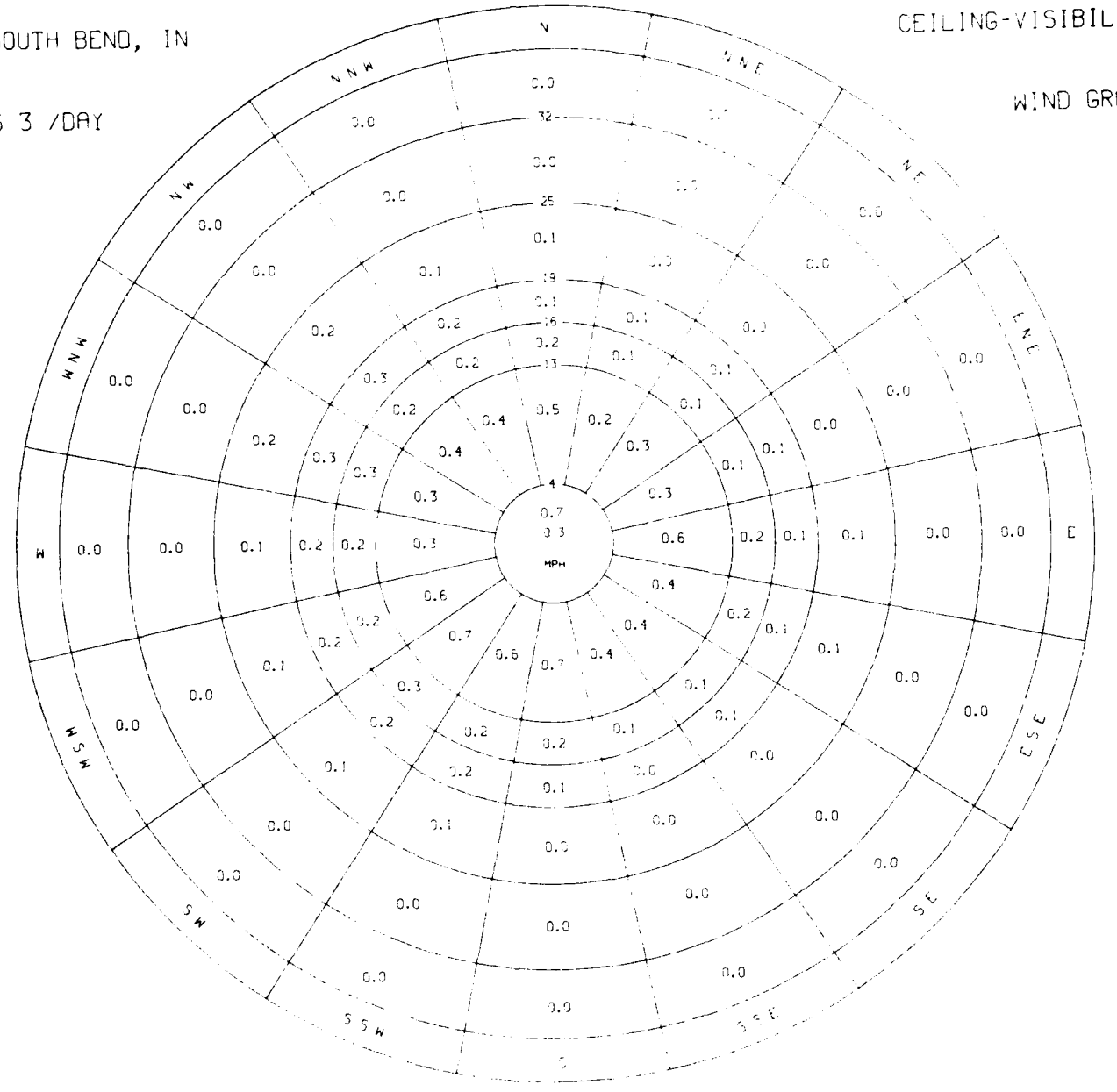
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.3	.7	3.6	.2	1.0	.1	.7	.1	.3	.0	.1	.0	.0	1.1	6.0	10.9
NNE	.0	.1	.4	2.1	.1	.4	.0	.2	.0	.2	.0	.0	.0	.0	.6	3.0	10.2
NE	.0	.2	.5	2.7	.1	.7	.1	.4	.0	.3	.0	.0	.0	.0	.8	4.2	10.5
ENE	.0	.1	.4	2.1	.1	.7	.1	.5	.1	.3	.0	.1	.0	.0	.7	3.8	11.4
E	.1	.4	.8	4.1	.2	.8	.2	.8	.1	.4	.0	.1	.0	.0	1.2	6.6	10.8
ESE	.0	.2	.6	3.1	.2	.9	.1	.6	.1	.3	.0	.0	.0	.0	1.0	5.2	10.9
SE	.0	.2	.5	2.6	.1	.6	.1	.5	.0	.1	.0	.0	.0	.0	.7	4.0	10.6
SSE	.0	.2	.5	2.5	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.4	9.4
S	.1	.5	.8	4.4	.2	.9	.1	.6	.0	.1	.0	.1	.0	.0	1.2	6.6	9.9
SSW	.1	.3	.8	4.0	.2	1.3	.2	.9	.1	.4	.0	.0	.0	.0	1.3	7.0	11.2
SW	.1	.5	1.1	6.0	.4	2.3	.2	1.3	.1	.5	.0	.1	.0	.0	2.0	10.7	11.3
WSW	.1	.3	.7	4.0	.3	1.6	.3	1.5	.1	.7	.0	.2	.0	.0	1.6	8.4	12.4
W	.0	.2	.5	2.7	.2	1.2	.3	1.4	.2	1.0	.0	.1	.0	.0	1.3	6.7	13.4
WNW	.0	.1	.5	2.8	.2	1.3	.3	1.5	.3	1.4	.0	.3	.0	.0	1.4	7.3	14.2
NW	.0	.3	.6	3.2	.2	1.0	.2	1.3	.2	.8	.0	.2	.0	.0	1.3	6.7	12.8
NNW	.0	.2	.4	2.4	.2	.9	.1	.8	.1	.8	.0	.1	.0	.0	1.0	5.2	13.1
CALM	1.0	5.1													1.0	5.1	
TOTAL	1.7	9.1	9.8	52.5	3.0	16.1	2.5	13.2	1.4	7.6	.3	1.4	.0	.2	18.7	100	11.0

SBN SOUTH BEND, IN

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 14848

NO. OBS.: 7037

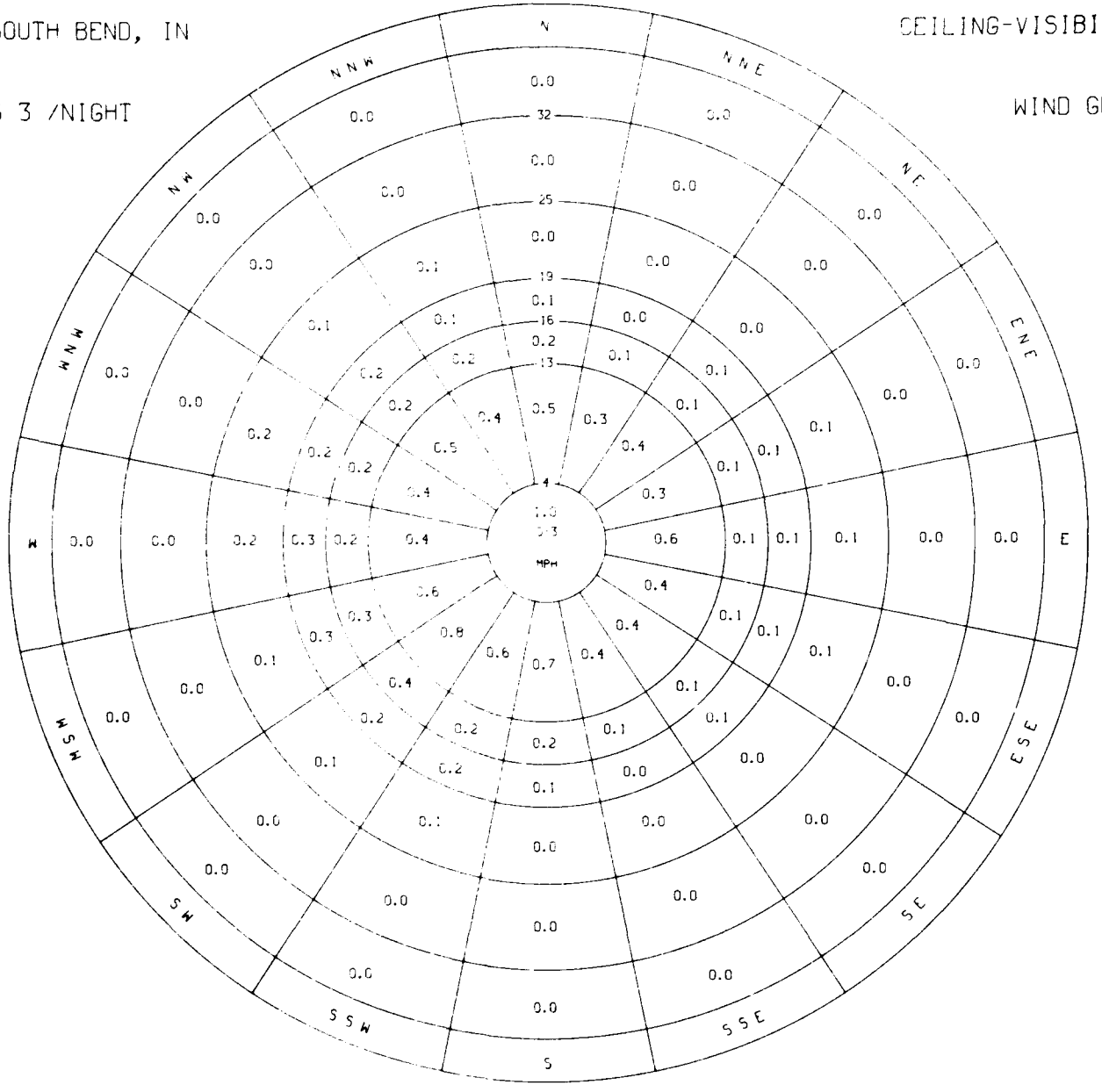
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.5	3.2	.2	1.3	.1	.8	.1	.4	.0	.0	.0	.0	.8	5.7	12.1
NNE	.0	.1	.2	1.6	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.4	2.8	11.5
NE	.0	.1	.3	2.4	.1	.7	.1	.4	.0	.2	.0	.0	.0	.0	.6	3.8	10.9
ENE	.0	.1	.3	2.3	.1	.8	.1	.5	.0	.3	.0	.1	.0	.0	.6	4.1	11.7
E	.0	.2	.6	4.1	.2	1.2	.1	.8	.1	.5	.0	.1	.0	.0	1.0	6.8	11.3
ESE	.0	.1	.4	2.7	.2	1.1	.1	.8	.1	.5	.0	.1	.0	.0	.8	5.3	12.4
SE	.0	.2	.4	2.6	.1	.8	.1	.6	.0	.2	.0	.0	.0	.0	.7	4.5	11.3
SSE	.0	.1	.4	2.6	.1	.8	.0	.2	.0	.1	.0	.0	.0	.0	.6	3.8	10.4
S	.0	.2	.7	5.1	.2	1.5	.1	1.0	.0	.3	.0	.0	.0	.0	1.2	8.1	10.9
SSW	.0	.2	.6	3.8	.2	1.5	.2	1.1	.1	.4	.0	.0	.0	.0	1.0	7.0	11.7
SW	.0	.2	.7	5.0	.3	2.0	.2	1.4	.1	.7	.0	.2	.0	.0	1.4	9.5	12.2
WSW	.0	.1	.6	3.9	.2	1.6	.2	1.3	.1	.9	.0	.2	.0	.0	1.2	8.1	12.7
W	.0	.1	.3	2.0	.2	1.2	.2	1.1	.1	1.0	.0	.1	.0	.0	.8	5.5	14.0
WNW	.0	.1	.3	2.4	.3	2.0	.3	1.9	.2	1.3	.0	.1	.0	.0	1.1	7.8	14.7
NW	.0	.3	.4	3.0	.2	1.5	.3	1.9	.2	1.2	.0	.2	.0	.0	1.2	8.2	13.9
NNW	.0	.1	.4	2.6	.2	1.3	.2	1.2	.1	.9	.0	.2	.0	.0	.9	6.4	13.9
CALM	.4	2.6													.4	2.6	
TOTAL	.7	5.0	7.2	49.4	2.9	19.9	2.2	15.4	1.3	8.8	.2	1.4	.0	.1	14.6	100	12.1

SBN SOUTH BEND, IN

CEILING-VISIBILITY

CLASS 3 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14848

NO. OBS.: 6352

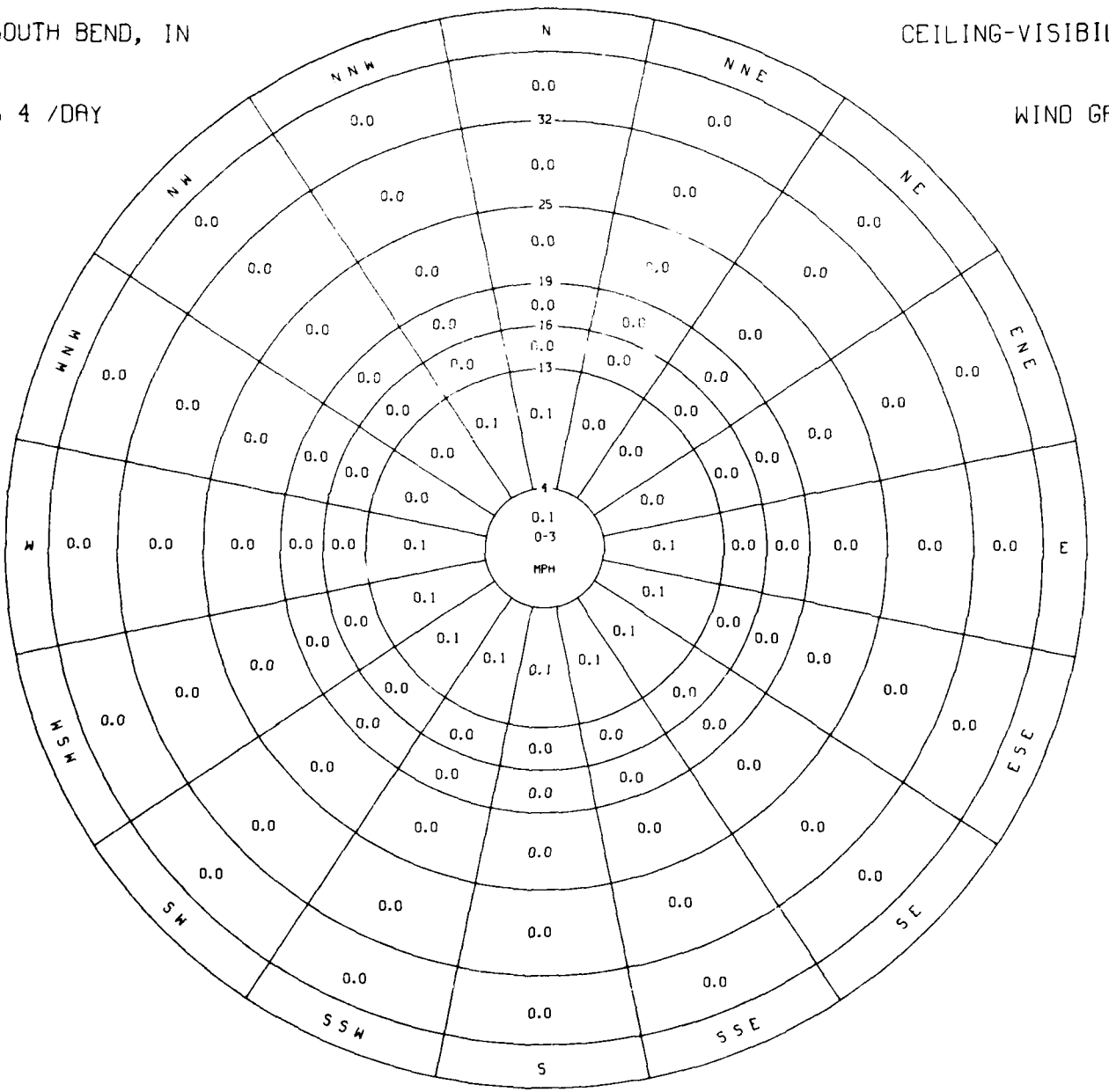
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.5	3.5	.2	1.1	.1	.8	.0	.3	.0	.0	.0	.0	.9	6.0	11.2
NNE	.0	.1	.3	2.0	.1	.5	.0	.2	.0	.2	.0	.0	.0	.0	.5	3.0	10.7
NE	.0	.2	.4	2.8	.1	.6	.1	.4	.0	.3	.0	.0	.0	.0	.6	4.3	10.7
ENE	.0	.1	.3	2.2	.1	.7	.1	.5	.1	.4	.0	.1	.0	.0	.6	3.9	11.6
E	.0	.3	.6	3.8	.1	.9	.1	.9	.1	.5	.0	.1	.0	.0	1.0	6.5	11.3
ESE	.0	.2	.4	2.9	.1	.9	.1	.7	.1	.3	.0	.0	.0	.0	.8	5.1	11.3
SE	.0	.1	.4	2.5	.1	.7	.1	.6	.0	.1	.0	.0	.0	.0	.6	4.0	10.8
SSE	.0	.1	.4	2.5	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.4	9.7
S	.0	.3	.7	4.4	.2	1.0	.1	.8	.0	.1	.0	.1	.0	.0	1.0	6.7	10.4
SSW	.0	.2	.6	4.0	.2	1.4	.2	1.1	.1	.5	.0	.0	.0	.0	1.1	7.3	11.6
SW	.1	.4	.8	5.6	.4	2.5	.2	1.4	.1	.5	.0	.2	.0	.0	1.6	10.8	11.8
WSW	.0	.1	.6	4.0	.3	1.8	.3	1.7	.1	.8	.0	.3	.0	.0	1.3	8.8	13.0
W	.0	.1	.4	2.7	.2	1.3	.3	1.7	.2	1.0	.0	.1	.0	.0	1.0	6.9	13.8
WNW	.0	.1	.4	2.6	.2	1.4	.2	1.6	.2	1.3	.0	.2	.0	.0	1.1	7.3	14.2
NW	.0	.2	.5	3.1	.2	1.1	.2	1.4	.1	.9	.0	.2	.0	.0	1.0	6.9	13.4
NNW	.0	.1	.4	2.4	.2	1.0	.1	.9	.1	.8	.0	.1	.0	.0	.8	5.5	13.5
CALM	.6	3.9													.6	3.9	
TOTAL	1.0	6.8	7.6	51.0	2.7	17.7	2.2	14.7	1.2	8.1	.2	1.5	.0	.1	15.0	100	11.6

SBN SOUTH BEND, IN

CEILING-VISIBILITY

CLASS 4 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14848

NO. OBS.: 934

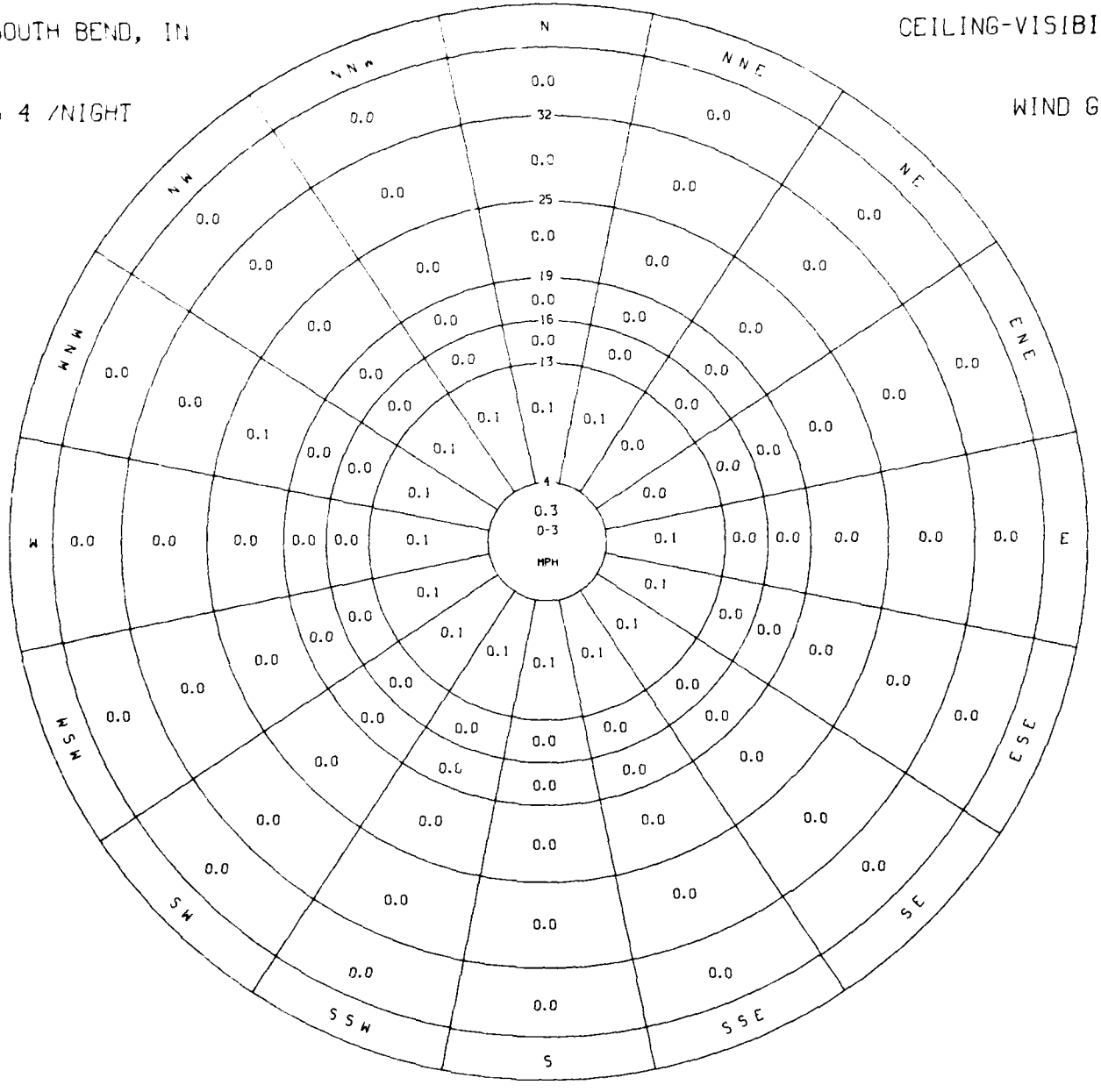
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.1	3.6	.0	.4	.0	.3	.0	.3	.0	.0	.0	.0	.1	4.9	9.7
NNE	.0	.0	.0	2.0	.0	1.2	.0	.4	.0	.3	.0	.0	.0	.0	.1	4.0	12.4
NE	.0	.1	.0	2.6	.0	.6	.0	.2	.0	.1	.0	.0	.0	.0	.1	3.6	9.6
ENE	.0	.0	.0	2.2	.0	1.0	.0	.2	.0	.2	.0	.0	.0	.0	.1	3.6	10.9
E	.0	.5	.1	5.4	.0	1.2	.0	.4	.0	.2	.0	.0	.0	.0	.1	7.7	9.6
ESE	.0	.0	.1	3.1	.0	1.0	.0	.4	.0	.2	.0	.0	.0	.0	.1	4.7	10.8
SE	.0	.2	.1	2.9	.0	.9	.0	.6	.0	.0	.0	.0	.0	.0	.1	4.6	10.2
SSE	.0	.2	.1	2.7	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.3	9.2
S	.0	.3	.1	5.0	.0	.6	.0	.3	.0	.4	.0	.0	.0	.0	.1	6.7	9.2
SSW	.0	.1	.1	5.9	.0	1.5	.0	.3	.0	.2	.0	.0	.0	.0	.2	8.0	9.5
SW	.0	.4	.1	4.4	.0	1.2	.0	.6	.0	.5	.0	.0	.0	.0	.1	7.2	11.0
WSW	.0	.2	.1	3.2	.0	1.1	.0	1.4	.0	.9	.0	.2	.0	.0	.1	7.0	12.7
W	.0	.1	.1	3.0	.0	1.1	.0	1.7	.0	1.8	.0	.1	.0	.0	.2	7.8	14.0
WNW	.0	.2	.0	2.6	.0	1.7	.0	2.2	.0	2.4	.0	.5	.0	.0	.2	9.6	15.7
NW	.0	.2	.0	2.6	.0	1.8	.0	1.6	.0	1.2	.0	.2	.0	.0	.1	7.6	14.6
NNW	.0	.2	.1	3.4	.0	.6	.0	.3	.0	1.3	.0	.3	.0	.0	.1	6.2	13.0
CALM	.1	3.3													.1	3.3	
TOTAL	.1	6.4	1.1	54.6	.3	16.3	.2	11.2	.2	10.1	.0	1.4	.0	.0	1.9	100	11.3

SBN SOUTH BEND, IN

CEILING-VISIBILITY

CLASS 4 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14848

NO. OBS.: 954

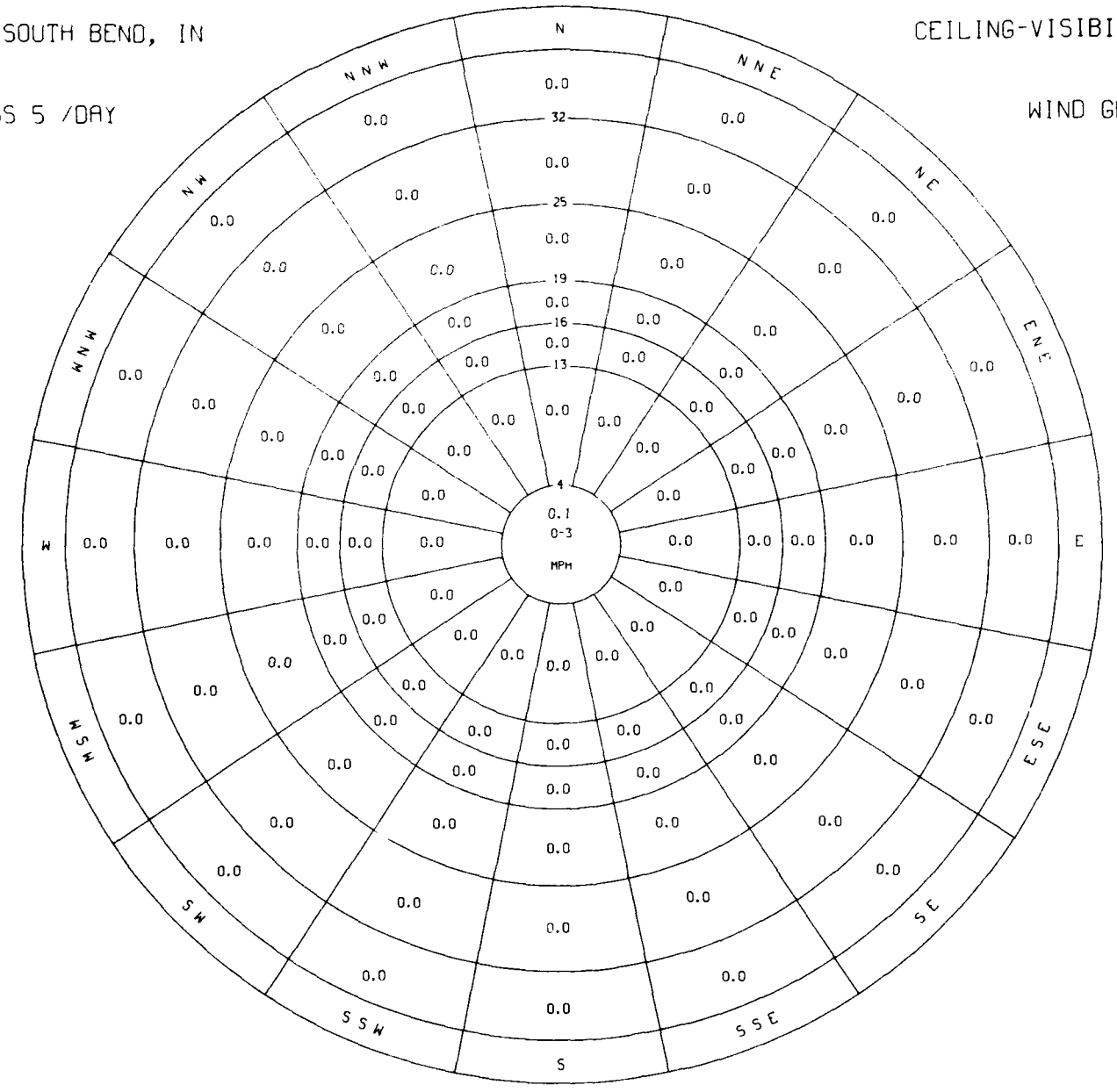
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.1	4.0	.0	.8	.0	.3	.0	.3	.0	.1	.0	.0	.1	5.9	10.2
NNE	.0	.1	.1	2.9	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.1	3.7	9.4
NE	.0	.1	.0	1.8	.0	1.2	.0	.3	.0	.2	.0	.0	.0	.0	.1	3.6	11.5
ENE	.0	.2	.0	1.7	.0	.8	.0	.7	.0	.3	.0	.0	.0	.0	.1	3.8	11.8
E	.0	.4	.1	4.5	.0	.4	.0	.9	.0	.2	.0	.0	.0	.0	.1	6.5	9.7
ESE	.0	.2	.1	4.7	.0	1.4	.0	.4	.0	.2	.0	.0	.0	.0	.2	6.9	10.3
SE	.0	.3	.1	4.2	.0	.5	.0	.5	.0	.2	.0	.0	.0	.0	.1	5.8	9.7
SSE	.0	.6	.1	2.6	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.1	3.7	8.0
S	.0	.5	.1	3.7	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.1	4.9	8.2
SSW	.0	.1	.1	3.6	.0	.7	.0	.7	.0	.3	.0	.0	.0	.0	.1	5.5	11.1
SW	.0	.2	.1	6.5	.0	1.9	.0	.8	.0	.3	.0	.0	.0	.0	.2	9.7	10.9
WSW	.0	.4	.1	3.7	.0	1.4	.0	.8	.0	.6	.0	.0	.0	.0	.2	6.9	11.0
W	.0	.2	.1	3.1	.0	.6	.0	.8	.0	.9	.0	.2	.0	.2	.1	6.2	13.0
WNW	.0	.1	.1	3.4	.0	1.0	.0	1.4	.1	2.3	.0	.4	.0	.1	.2	8.7	14.9
NW	.0	.2	.1	3.6	.0	.6	.0	1.0	.0	.4	.0	.2	.0	.0	.1	6.1	11.5
NNW	.0	.3	.1	2.5	.0	.5	.0	.2	.0	.8	.0	.1	.0	.2	.1	4.7	12.7
CALM	.2	7.5													.2	7.5	
TOTAL	.3	11.9	1.3	56.4	.3	13.2	.2	9.5	.2	7.3	.0	1.0	.0	.5	2.3	100	10.2

SBN SOUTH BEND, IN

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14848

NO. OBS.: 220

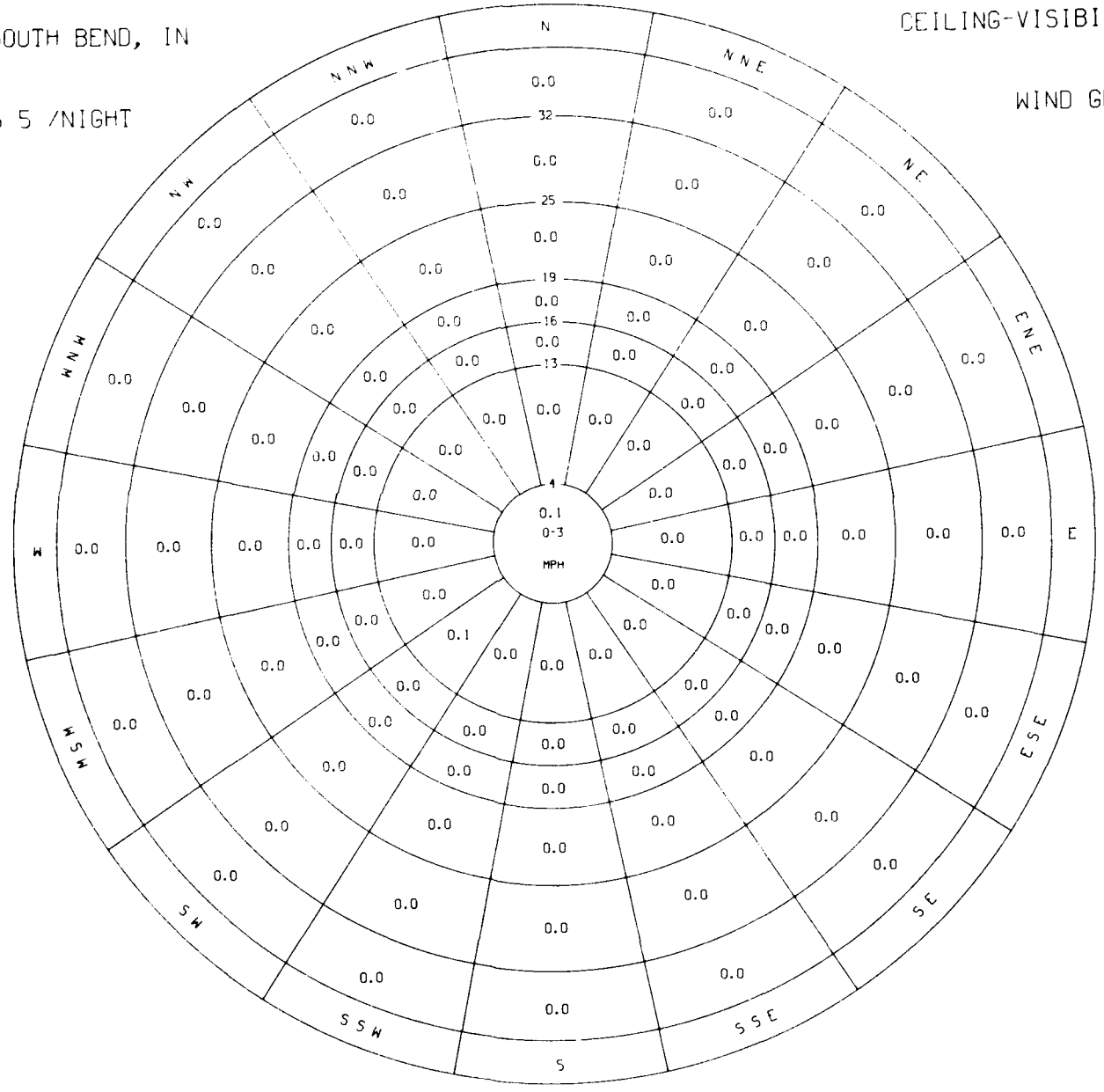
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.0	5.0	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	6.8	9.4
NNE	.0	.0	.0	3.6	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	5.5	10.6
NE	.0	.9	.0	2.7	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	5.0	9.7
ENE	.0	.5	.0	1.4	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	2.3	9.6
E	.0	.5	.0	6.8	.0	.5	.0	.9	.0	.5	.0	.0	.0	.0	.0	9.1	9.3
ESE	.0	.5	.0	3.6	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	5.0	8.1
SE	.0	.0	.0	3.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	8.5
SSE	.0	.5	.0	1.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	8.0
S	.0	.5	.0	2.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	8.3
SSW	.0	1.4	.0	2.3	.0	.9	.0	.5	.0	.5	.0	.0	.0	.0	.0	5.5	9.9
SW	.0	.5	.0	6.4	.0	1.8	.0	.5	.0	.5	.0	.0	.0	.0	.0	9.5	10.1
WSW	.0	.5	.0	2.7	.0	.5	.0	.9	.0	.5	.0	.0	.0	.0	.0	5.0	9.7
W	.0	.5	.0	1.4	.0	.5	.0	.5	.0	2.3	.0	.5	.0	.5	.0	5.9	17.3
WNW	.0	.5	.0	4.5	.0	.0	.0	2.3	.0	1.4	.0	.9	.0	.0	.0	9.5	14.0
NW	.0	.0	.0	3.2	.0	1.4	.0	.9	.0	.5	.0	.0	.0	.0	.0	5.9	13.4
NNW	.0	.5	.0	2.3	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	4.5	10.6
CALM	.0	10.0													.0	10.0	
TOTAL	.1	17.3	.2	53.6	.0	10.5	.0	8.6	.0	8.2	.0	1.4	.0	.5	.5	100	9.7

SBN SOUTH BEND, IN

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14848

NO. OBS.: 283

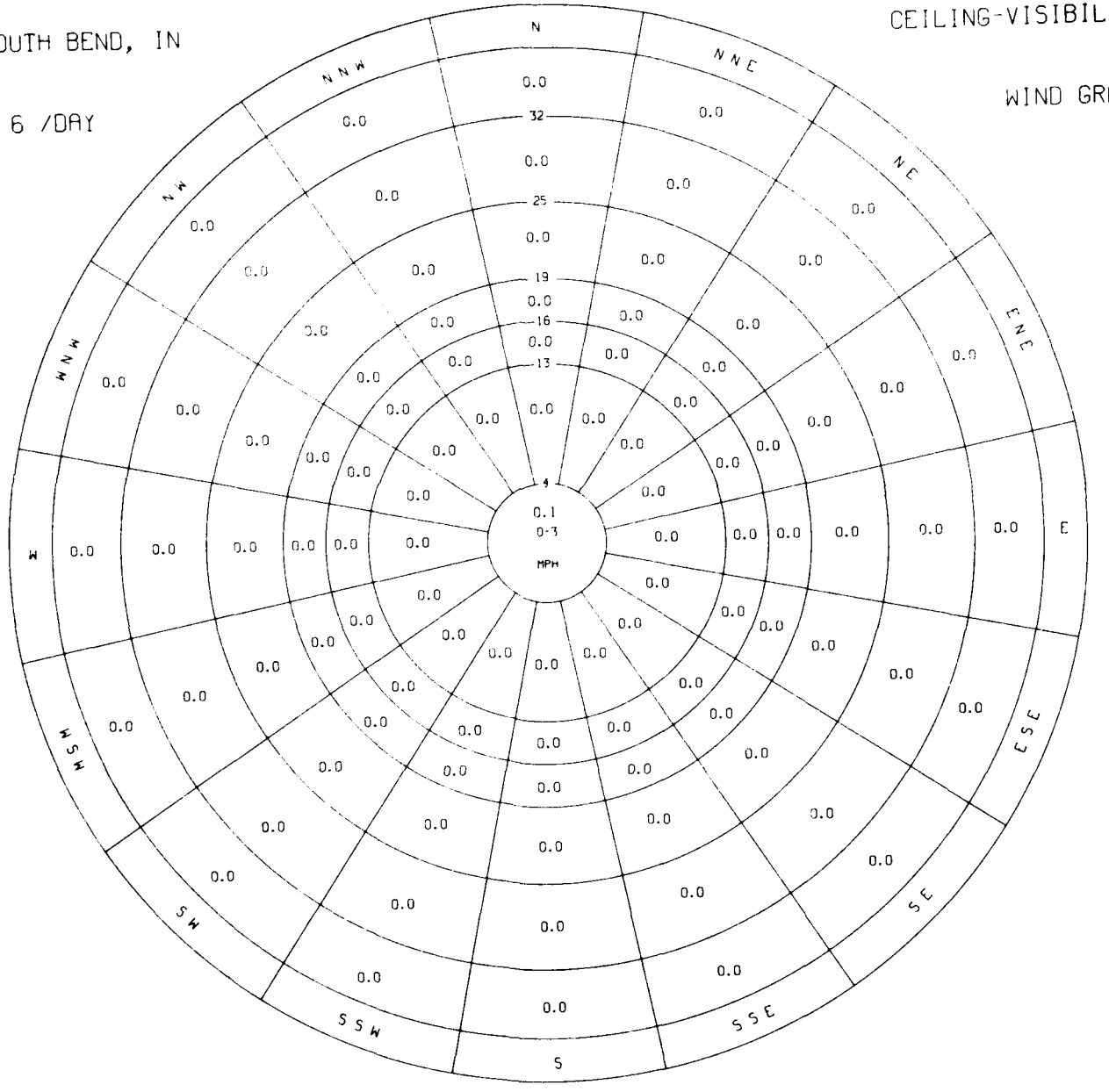
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.0	5.7	.0	.4	.0	.7	.0	.7	.0	.4	.0	.0	.1	8.1	10.5
NNE	.0	.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	5.0
NE	.0	.4	.0	2.5	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.0	3.5	8.4
ENE	.0	.0	.0	2.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	9.5
E	.0	.0	.0	7.4	.0	.4	.0	.7	.0	.0	.0	.0	.0	.0	.1	8.5	8.5
ESE	.0	.0	.0	4.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	9.1
SE	.0	.4	.0	1.1	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	2.1	10.0
SSE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	7.6
S	.0	.4	.0	7.1	.0	.0	.0	.4	.0	.7	.0	.0	.0	.0	.1	8.5	9.1
SSW	.0	1.1	.0	5.3	.0	1.1	.0	.4	.0	.4	.0	.0	.0	.0	.1	8.1	8.4
SW	.0	.7	.1	7.8	.0	.7	.0	.4	.0	.4	.0	.0	.0	.0	.1	9.9	8.3
WSW	.0	1.1	.0	4.2	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	6.0	7.5
W	.0	1.4	.0	1.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.9	6.7
WNW	.0	.7	.0	2.5	.0	.0	.0	1.4	.0	.7	.0	.4	.0	.0	.0	5.7	12.9
NW	.0	1.4	.0	3.2	.0	.4	.0	1.4	.0	.4	.0	.0	.0	.0	.0	6.7	9.4
NNW	.0	.4	.0	2.5	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.5	8.6
CALM	.1	12.7													.1	12.7	
TOTAL	.1	21.2	.4	61.8	.0	6.0	.0	6.7	.0	3.5	.0	.7	.0	.0	.7	100	7.8

SBN SOUTH BEND, IN

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 14848

NO. OBS.: 237

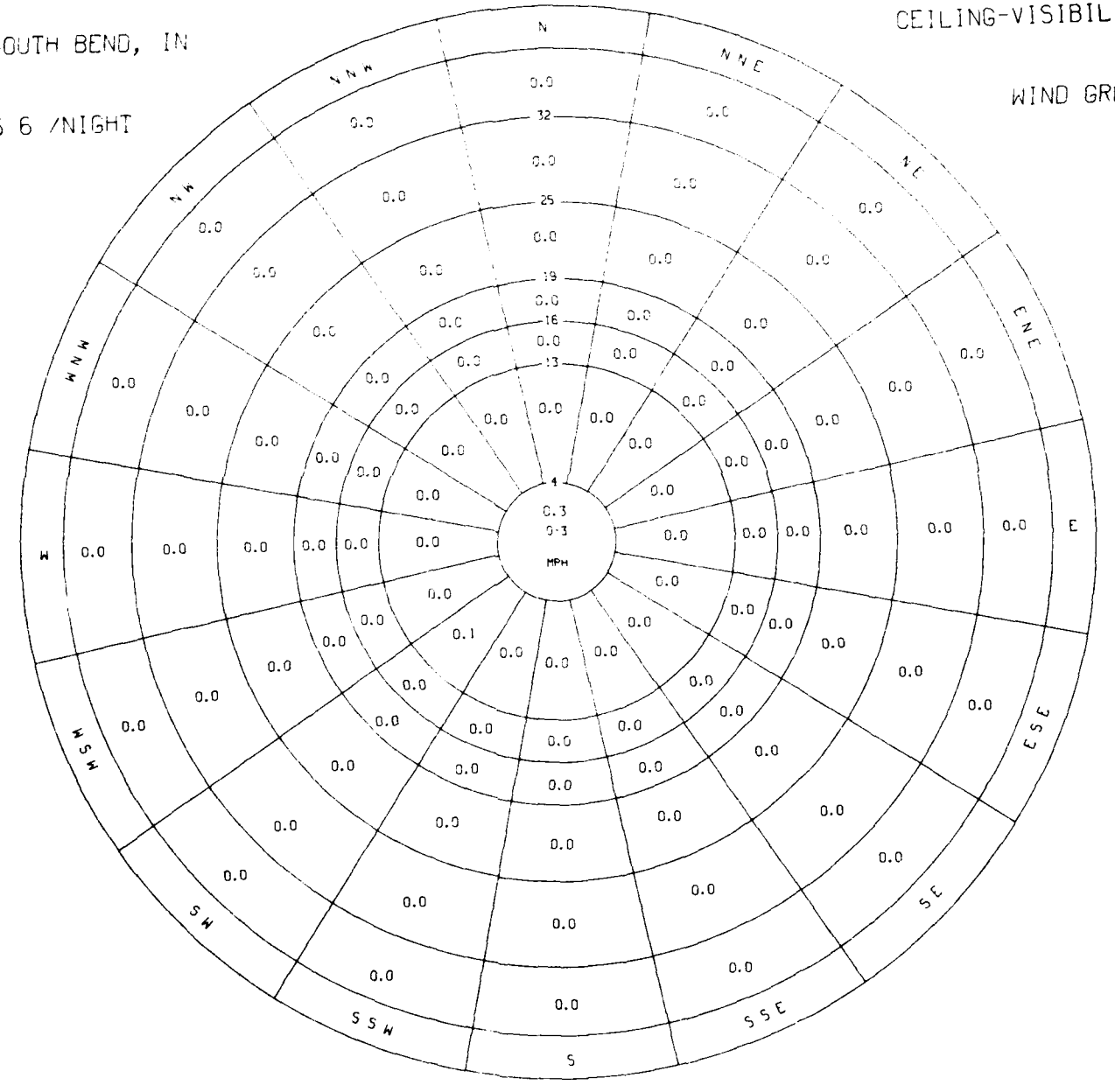
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.8	.0	3.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.1	7.8
NNE	.0	.0	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.2
NE	.0	.0	.0	2.5	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.4	8.4
ENE	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.7
E	.0	.8	.0	4.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.9	7.1
ESE	.0	1.3	.0	4.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.9	6.6
SE	.0	.0	.0	3.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	9.2
SSE	.0	.0	.0	.8	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	1.7	10.5
S	.0	.4	.0	5.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	7.3
SSW	.0	.0	.0	8.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	8.9	8.3
SW	.0	.4	.0	9.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.1	6.6
WSW	.0	.0	.0	7.6	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	8.4	7.4
W	.0	.8	.0	3.4	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	5.1	9.2
WNW	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	.0	3.4	15.9
NW	.0	.8	.0	3.0	.0	.8	.0	.0	.0	.0	.0	.8	.0	.4	.0	5.9	11.9
NNW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.1	12.8
CALM	.1	19.8													.1	19.8	
TOTAL	.1	26.2	.3	62.9	.0	4.6	.0	2.5	.0	.8	.0	1.3	.0	1.7	.5	100	6.7

SBN SOUTH BEND, IN

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SBN SOUTH BEND, IN

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14848

NO. OBS.: 355

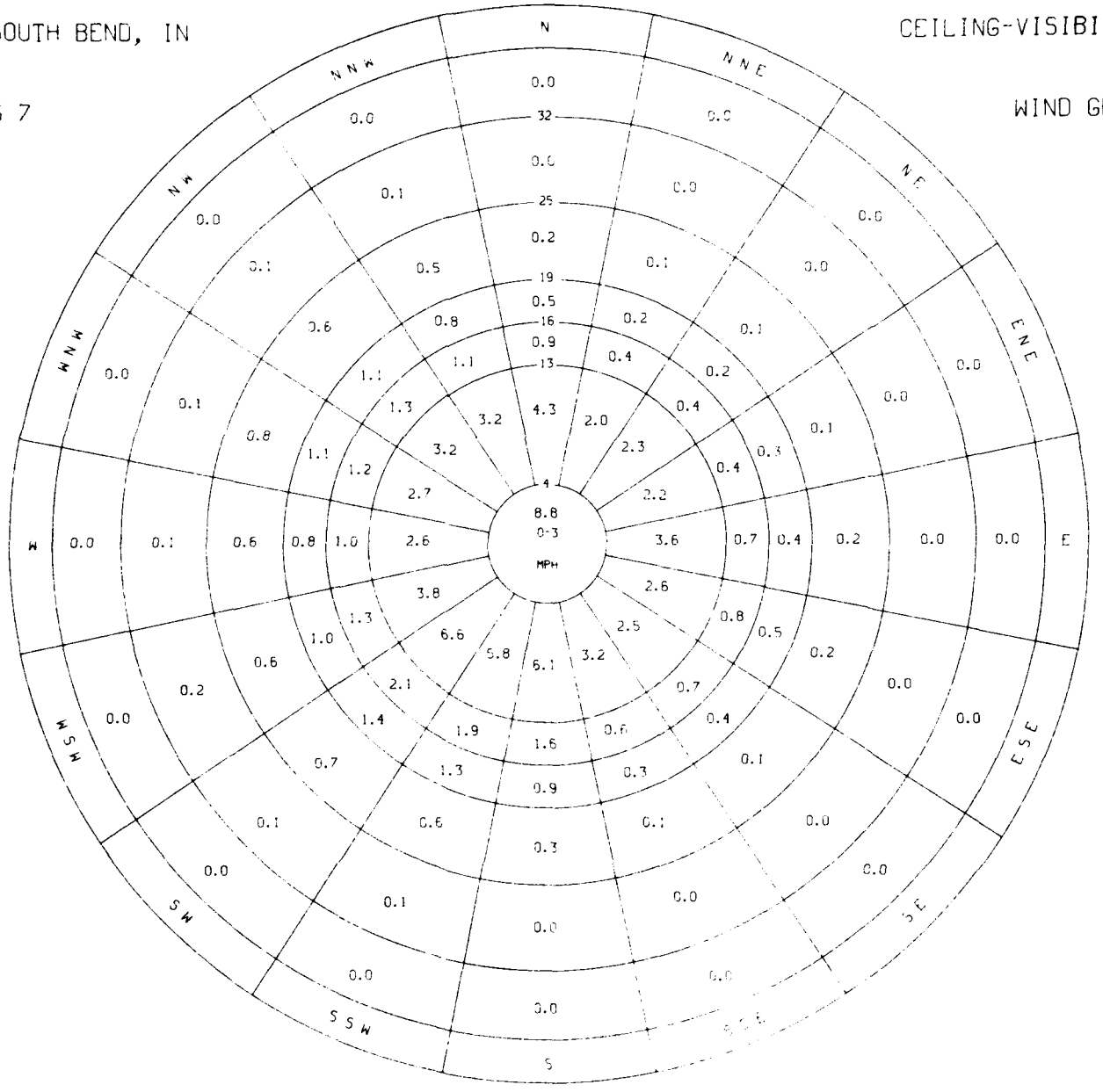
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	2.0	.0	3.1	.0	.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.9	6.9
NNE	.0	.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.1
NE	.0	1.1	.0	3.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.4	5.6
ENE	.0	.3	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	6.8
E	.0	1.1	.0	5.1	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.1	6.8	7.1
ESE	.0	.6	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	5.7
SE	.0	.3	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.6
SSE	.0	.3	.0	2.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	8.2
S	.0	2.5	.0	5.9	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.7	5.5
SSW	.0	1.4	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.5	6.2
SW	.0	2.3	.1	10.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	13.2	7.0
WSW	.0	2.3	.0	4.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.3	5.6
W	.0	1.1	.0	3.7	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.9	8.0
WNW	.0	.3	.0	4.2	.0	.3	.0	.0	.0	.0	.0	.8	.0	.0	.0	5.6	10.4
NW	.0	1.1	.0	3.9	.0	.0	.0	.3	.0	.3	.0	.3	.0	.0	.0	5.9	8.4
NNW	.0	.8	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	5.4
CALM	.1	14.9													.1	14.9	
TOTAL	.3	32.7	.5	61.1	.0	3.1	.0	.6	.0	1.4	.0	1.1	.0	.0	.8	100	5.9

SBN SOUTH BEND, IN

CEILING-VISIBILITY

CLASS 7

WIND GRAPH

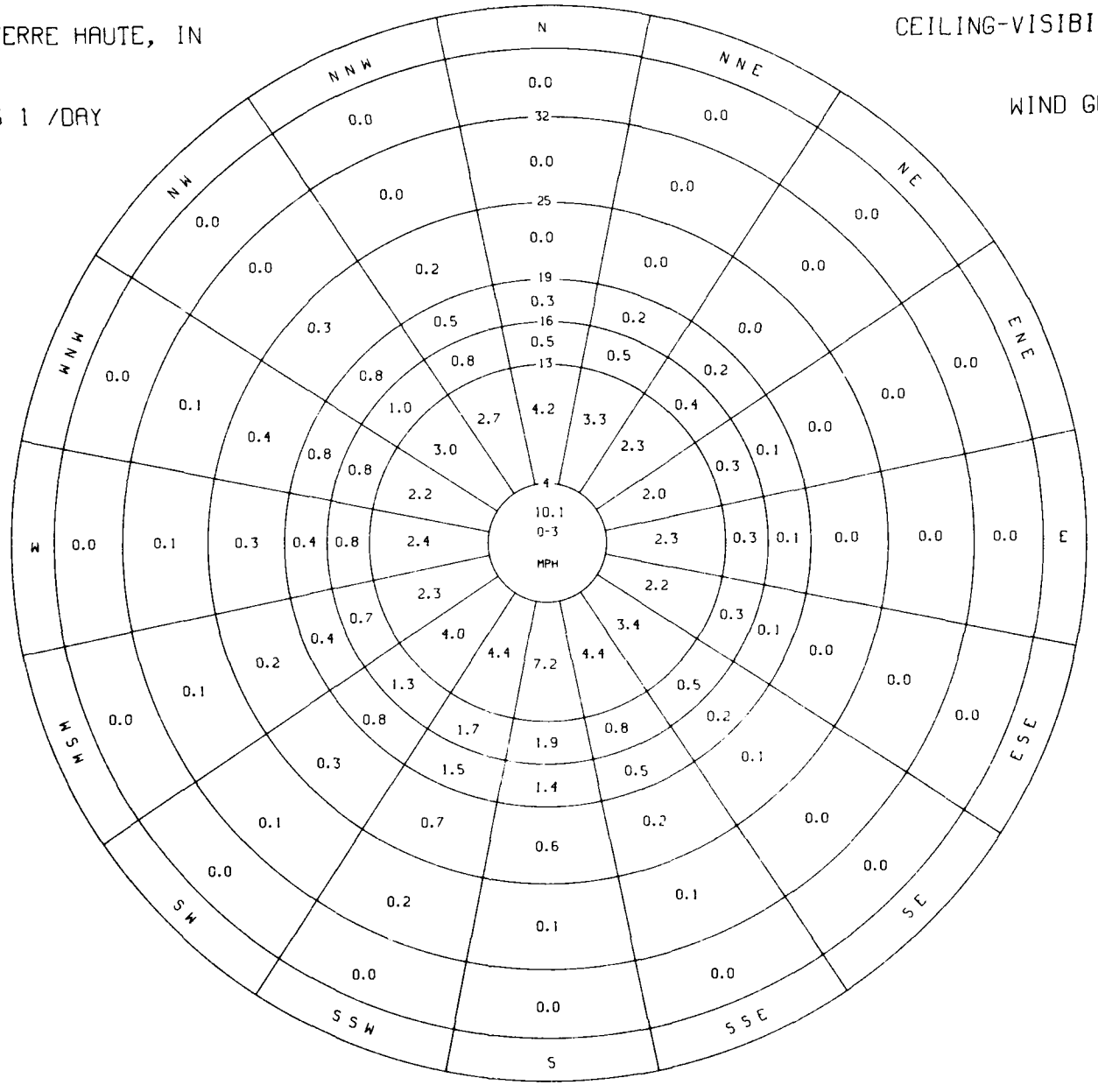

N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0.0
32
0.0
0.0
25
0.2
19
0.5
16
0.9
13
4.3
4
8.8
0-3
MPH
0.0
0.0
0.0

HUF TERRE HAUTE, IN

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 1 / DAY

STATION NUMBER: 93823

NO. OBS.: 14932

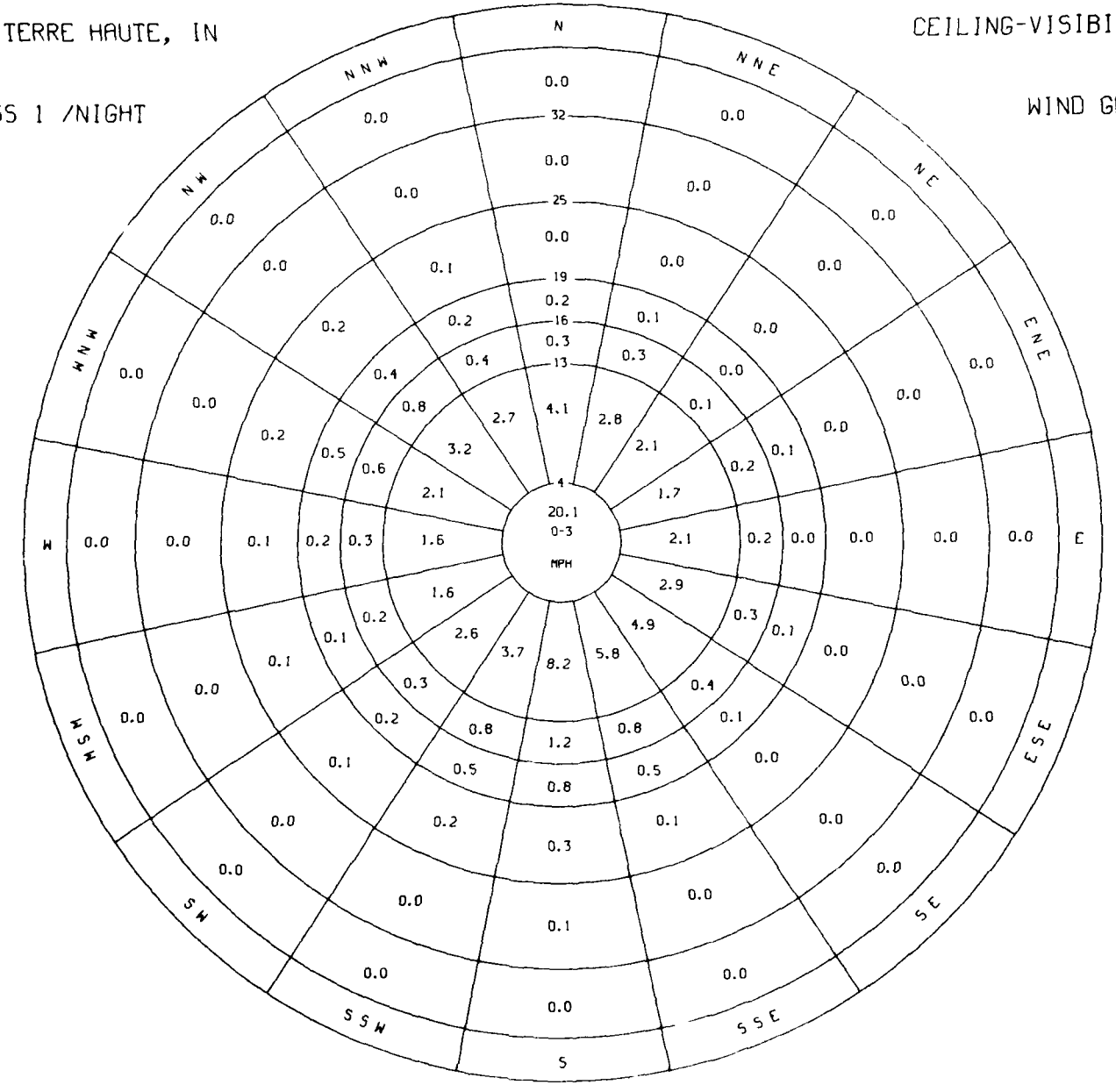
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.6	.7	4.2	4.8	.5	.6	.3	.3	.0	.0	.0	.0	.0	.0	5.7	6.5	8.8
NNE	.6	.7	3.3	3.7	.5	.5	.2	.2	.0	.0	.0	.0	.0	.0	4.6	5.2	8.6
NE	.6	.7	2.3	2.7	.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.6	4.1	8.3
ENE	.4	.5	2.0	2.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.8	3.2	8.0
E	.6	.6	2.3	2.6	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.3	3.7	7.9
ESE	.3	.4	2.2	2.5	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	3.0	3.4	8.6
SE	.8	.9	3.4	3.9	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	5.0	5.7	8.3
SSE	.6	.7	4.4	5.0	.8	.9	.5	.5	.2	.2	.1	.1	.0	.0	6.5	7.4	9.6
S	.8	.9	7.2	8.2	1.9	2.1	1.4	1.6	.6	.7	.1	.2	.0	.0	12.0	13.7	10.8
SSW	.4	.4	4.4	5.1	1.7	1.9	1.5	1.7	.7	.8	.2	.2	.0	.0	8.9	10.1	12.4
SW	.5	.6	4.0	4.6	1.3	1.4	.8	1.0	.3	.4	.1	.1	.0	.0	7.0	8.1	11.1
WSW	.3	.4	2.3	2.6	.7	.8	.4	.5	.2	.2	.1	.1	.0	.0	4.0	4.6	11.1
W	.3	.3	2.4	2.8	.8	.9	.4	.4	.3	.3	.1	.1	.0	.0	4.2	4.8	11.2
WNW	.2	.2	2.2	2.5	.8	1.0	.8	1.0	.4	.5	.1	.2	.0	.0	4.6	5.3	12.9
NW	.3	.4	3.0	3.5	1.0	1.1	.8	.9	.3	.4	.0	.0	.0	.0	5.5	6.3	11.4
NNW	.4	.4	2.7	3.1	.8	.9	.5	.5	.2	.2	.0	.0	.0	.0	4.5	5.1	10.5
CALM	2.4	2.7													2.4	2.7	
TOTAL	10.1	11.6	52.2	59.7	12.5	14.3	8.2	9.4	3.4	3.9	.8	1.0	.1	.1	87.5	100	10.0

HUF TERRE HAUTE, IN

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 1 / NIGHT

STATION NUMBER: 93823

NO. OBS.: 12797

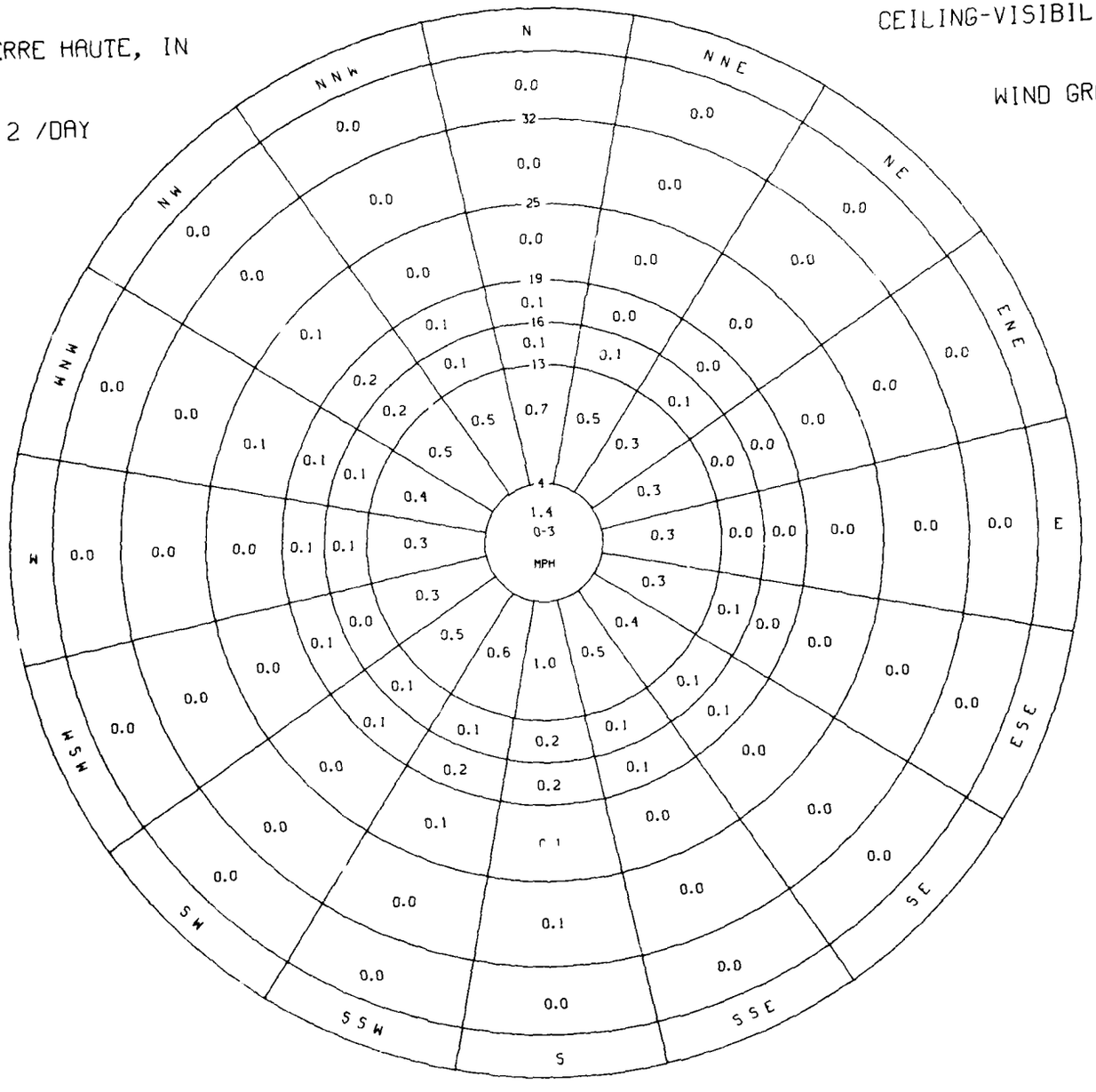
DIR	SPEED GROUPS (MPH)																		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	1.3	1.5	4.1	4.8	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	5.9	6.9	7.0
NNE	.9	1.1	2.8	3.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	4.1	4.8	6.9
NE	1.0	1.2	2.1	2.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.3	3.9	6.1
ENE	.8	1.0	1.7	2.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.8	3.3	6.
E	.7	.8	2.1	2.5	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.0	3.6	6.9
ESE	.6	.7	2.9	3.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.8	4.5	7.8
SE	1.4	1.7	4.9	5.7	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	6.9	8.1	7.2
SSE	1.1	1.3	5.8	6.8	.8	1.0	.5	.5	.1	.1	.0	.1	.0	.0	8.2	9.7	8.5
S	1.3	1.5	8.2	9.6	1.2	1.4	.8	.9	.3	.3	.1	.1	.0	.0	11.8	13.9	9.1
SSW	.5	.6	3.7	4.4	.8	.9	.5	.6	.2	.3	.0	.0	.0	.0	5.8	6.9	9.9
SW	.6	.6	2.6	3.1	.3	.4	.2	.3	.1	.1	.0	.1	.0	.0	3.9	4.5	8.7
WSW	.3	.4	1.6	1.9	.2	.2	.1	.2	.1	.1	.0	.1	.0	.0	2.3	2.8	9.0
W	.4	.5	1.6	1.9	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.7	3.1	9.2
WNW	.3	.4	2.1	2.5	.6	.7	.5	.5	.2	.2	.0	.0	.0	.0	3.7	4.4	10.9
NW	.6	.7	3.2	3.8	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	5.2	6.1	9.8
NNW	.4	.5	2.7	3.1	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	3.8	4.5	8.8
CALM	7.8	9.2													7.8	9.2	
TOTAL	20.1	23.6	52.0	61.1	7.2	8.4	4.0	4.8	1.4	1.6	.4	.4	.1	.1	85.2	100	7.6

HUF TERRE HAUTE, IN

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 2 / DAY

STATION NUMBER: 93823

NO. OBS.: 2142

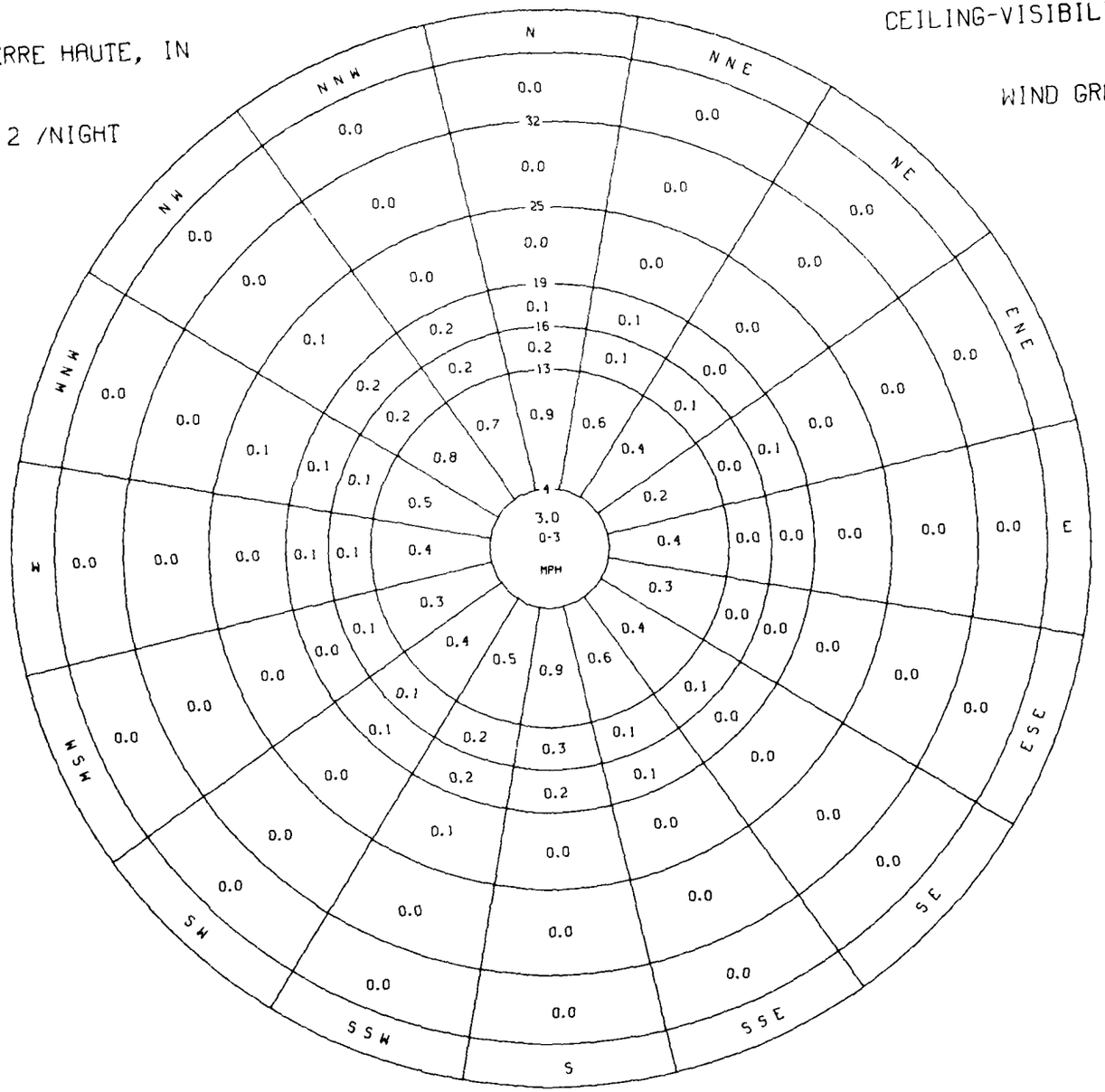
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.7	.7	5.6	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.0	1.0	7.9	9.3
NNE	.0	.3	.5	3.7	.1	.9	.0	.3	.0	.2	.0	.0	.0	.0	.7	5.4	10.0
NE	.1	.4	.3	2.5	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.4	3.5	8.4
ENE	.0	.1	.3	2.5	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.1	9.4
E	.0	.2	.3	2.4	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.2	9.7
ESE	.0	.1	.3	2.6	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.4	3.4	9.3
SE	.1	.5	.4	3.2	.1	.6	.1	.5	.0	.1	.0	.0	.0	.0	.6	4.9	9.8
SSE	.0	.3	.5	4.3	.1	1.1	.1	.7	.0	.1	.0	.1	.0	.0	.8	6.8	10.7
S	.1	.7	1.0	8.3	.2	1.8	.2	1.7	.1	.7	.1	.5	.0	.0	1.7	13.7	11.1
SSW	.0	.3	.6	4.5	.1	.9	.2	1.2	.1	.5	.0	.2	.0	.0	1.0	7.7	11.9
SW	.0	.3	.5	3.8	.1	.8	.1	.6	.0	.3	.0	.1	.0	.0	.8	6.0	10.6
WSW	.0	.3	.3	2.2	.0	.4	.1	.4	.0	.1	.0	.0	.0	.0	.4	3.5	10.4
W	.0	.4	.3	2.2	.1	.6	.1	.5	.0	.3	.0	.0	.0	.0	.5	4.2	11.3
WNW	.0	.3	.4	3.1	.1	1.2	.1	1.1	.1	.7	.0	.2	.0	.0	.8	6.7	13.0
NW	.1	.7	.5	4.2	.2	1.7	.2	1.2	.1	.7	.0	.1	.0	.0	1.1	8.7	11.9
NNW	.1	.7	.5	4.1	.1	.9	.1	.8	.0	.2	.0	.1	.0	.0	.9	6.9	10.6
CALM	.6	4.7													.6	4.7	
TOTAL	1.4	11.0	7.4	59.2	1.6	13.1	1.3	10.5	.6	4.5	.2	1.5	.0	.3	12.5	100	10.2

HUF TERRE HAUTE, IN

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 2 / NIGHT

STATION NUMBER: 93823

NO. OBS.: 2228

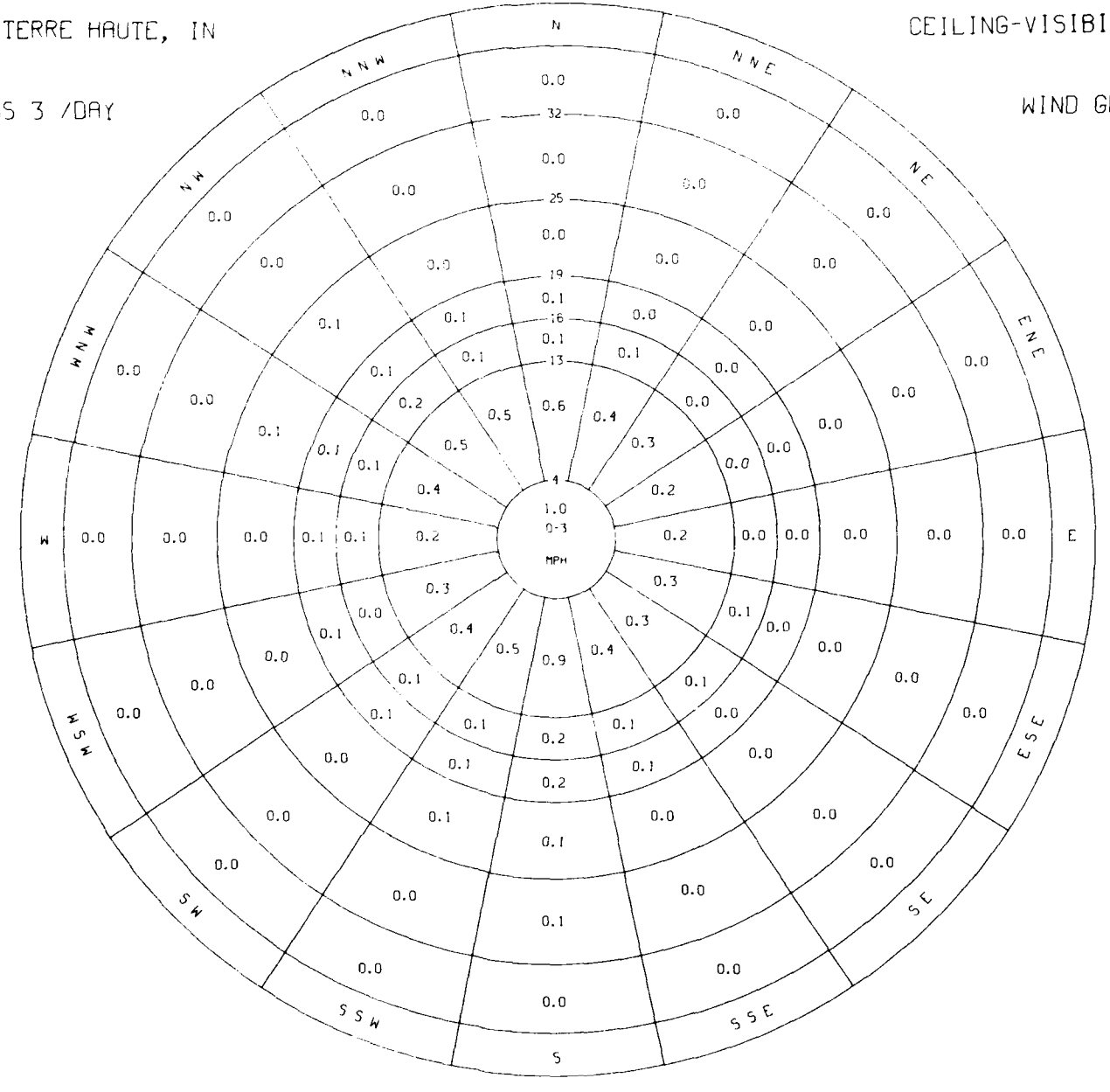
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	1.5	.9	5.8	.2	1.1	.1	.6	.0	.2	.0	.1	.0	.0	1.4	9.4	9.2
NNE	.2	1.6	.6	4.0	.1	.8	.1	.4	.0	.1	.0	.0	.0	.0	1.0	6.9	8.5
NE	.1	.9	.4	2.8	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.7	4.4	8.1
ENE	.0	.3	.2	1.5	.0	.2	.1	.4	.0	.1	.0	.0	.0	.0	.4	2.5	10.0
E	.1	.6	.4	2.5	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.5	3.5	8.4
ESE	.1	.5	.3	1.8	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.8	8.6
SE	.1	1.0	.4	2.6	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.6	4.3	7.7
SSE	.1	.9	.6	3.8	.1	.6	.1	.5	.0	.2	.0	.0	.0	.0	.9	6.1	9.0
S	.2	1.1	.9	5.9	.3	1.8	.2	1.1	.0	.3	.0	.1	.0	.0	1.5	10.3	10.2
SSW	.1	.6	.5	3.4	.2	1.2	.2	1.0	.1	.6	.0	.0	.0	.0	1.0	6.8	11.7
SW	.2	1.0	.4	2.7	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.8	5.1	9.3
WSW	.1	.5	.3	1.8	.1	.6	.0	.3	.0	.0	.0	.0	.0	.0	.5	3.3	10.0
W	.1	.4	.4	2.4	.1	.4	.1	.4	.0	.0	.0	.0	.0	.0	.5	3.7	9.7
WNW	.1	.4	.5	3.1	.1	.8	.1	.8	.1	.5	.0	.0	.0	.0	.8	5.6	11.3
NW	.1	1.0	.8	5.1	.2	1.5	.2	1.4	.1	.8	.0	.0	.0	.0	1.5	9.9	11.3
NNW	.1	.6	.7	4.5	.2	1.5	.2	1.1	.0	.2	.0	.1	.0	.0	1.2	8.0	11.0
CALM	1.1	7.4													1.1	7.4	
TOTAL	3.0	20.5	8.0	53.6	1.8	12.3	1.4	9.2	.5	3.7	.1	.5	.0	.1	14.8	100	9.1

HUF TERRE HAUTE, IN

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 3 / DAY

STATION NUMBER: 93823

NO. OBS.: 1842

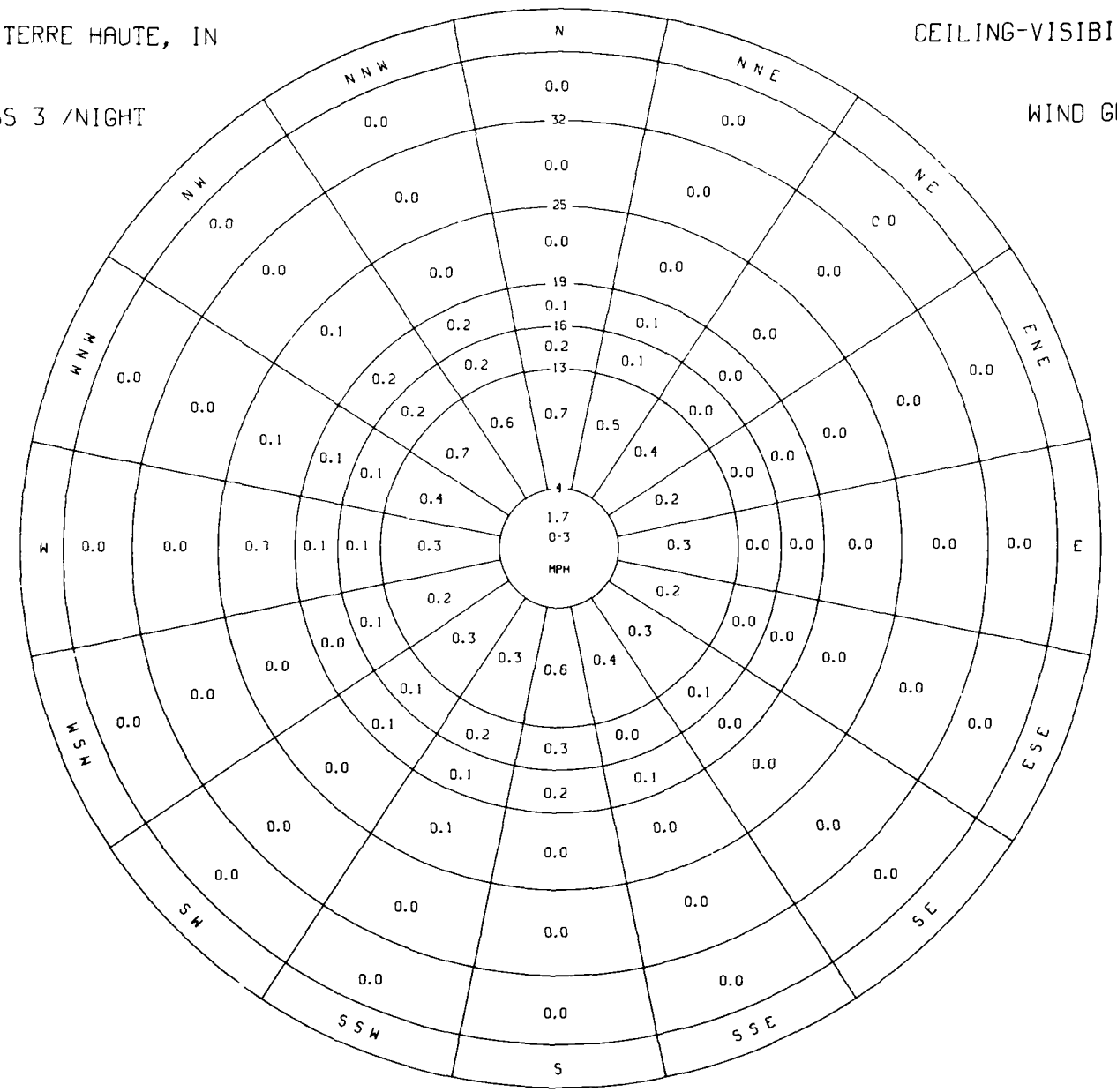
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.6	5.6	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.8	7.7	9.5
NNE	.0	.2	.4	3.9	.1	1.0	.0	.2	.0	.2	.0	.0	.0	.0	.6	5.6	10.2
NE	.0	.4	.3	2.6	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4	3.6	8.4
ENE	.0	.1	.2	2.1	.0	.1	.0	.3	.0	.1	.0	.0	.0	.0	.3	2.7	9.8
E	.0	.1	.2	2.2	.0	.1	.0	.3	.0	.1	.0	.0	.0	.1	.3	2.9	10.5
ESE	.0	.2	.3	2.6	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.4	3.5	9.4
SE	.0	.3	.3	2.8	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.5	4.3	10.3
SSE	.0	.3	.4	4.0	.1	1.2	.1	.9	.0	.2	.0	.1	.0	.0	.7	6.6	11.3
S	.1	.6	.9	8.4	.2	1.9	.2	1.6	.1	.8	.1	.5	.0	.1	1.5	13.9	11.4
SSW	.0	.2	.5	4.4	.1	.9	.1	1.2	.1	.6	.0	.2	.0	.1	.8	7.5	12.2
SW	.0	.4	.4	3.9	.1	.9	.1	.7	.0	.3	.0	.1	.0	.0	.7	6.2	10.6
WSW	.0	.3	.3	2.4	.0	.4	.1	.5	.0	.1	.0	.1	.0	.1	.4	3.8	10.6
W	.0	.4	.2	2.3	.1	.7	.1	.6	.0	.4	.0	.1	.0	.0	.5	4.4	11.3
WNW	.0	.3	.4	3.4	.1	1.2	.1	1.3	.1	.8	.0	.2	.0	.0	.8	7.3	13.3
NW	.1	.5	.5	4.2	.2	2.0	.1	1.4	.1	.8	.0	.1	.0	.1	1.0	9.1	12.3
NNW	.1	.7	.5	4.2	.1	1.1	.1	1.0	.0	.2	.0	.2	.0	.0	.8	7.3	10.8
CALM	.4	3.6													.4	3.6	
TOTAL	1.0	9.1	6.4	58.9	1.5	14.1	1.2	11.2	.5	4.9	.2	1.6	.0	.3	10.8	100	10.6

HUF TERRE HAUTE, IN

CEILING-VISIBILITY

CLASS 3 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 3 / NIGHT

STATION NUMBER: 93823

NO. OBS.: 1747

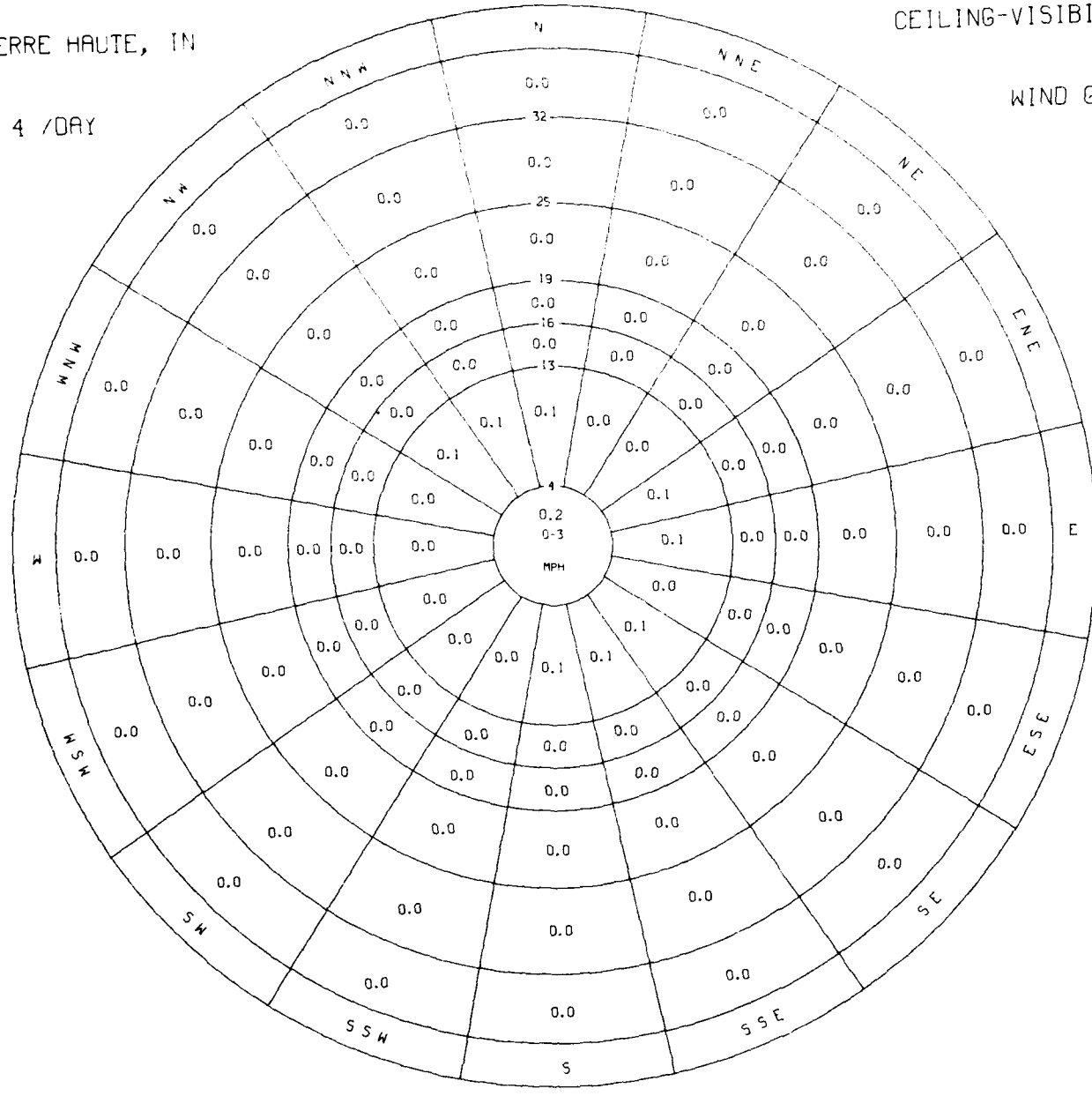
DIR	SPEED GROUPS (MPH)																TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	1.0	.7	6.2	.2	1.4	.1	.7	.0	.3	.0	.1	.0	.0	1.1	9.7	9.9
NNE	.2	1.4	.5	4.5	.1	.9	.1	.5	.0	.1	.0	.0	.0	.0	.9	7.3	8.8
NE	.1	1.0	.4	3.2	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.6	5.0	8.3
ENE	.0	.2	.2	1.6	.0	.1	.0	.3	.0	.2	.0	.0	.0	.1	.3	2.5	10.6
E	.0	.4	.3	2.5	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.4	3.3	8.9
ESE	.0	.4	.2	1.7	.0	.1	.0	.1	.0	.1	.0	.1	.0	.0	.3	2.5	9.1
SE	.1	.7	.3	2.3	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5	4.0	8.4
SSE	.1	.7	.4	3.3	.0	.4	.1	.6	.0	.3	.0	.0	.0	.0	.6	5.3	9.7
S	.1	.6	.6	5.4	.3	2.2	.2	1.4	.0	.3	.0	.1	.0	.0	1.2	10.1	11.2
SSW	.0	.3	.3	2.9	.2	1.3	.1	1.2	.1	.6	.0	.1	.0	.0	.7	6.4	12.6
SW	.1	.6	.3	2.7	.1	.9	.1	.7	.0	.2	.0	.1	.0	.0	.6	5.1	10.4
WSW	.1	.5	.2	1.6	.1	.7	.0	.3	.0	.1	.0	.0	.0	.1	.4	3.3	10.5
W	.0	.4	.3	2.5	.1	.5	.1	.5	.0	.1	.0	.1	.0	.0	.5	4.0	10.1
WNW	.0	.3	.4	3.5	.1	1.0	.1	1.0	.1	.6	.0	.1	.0	.0	.8	6.6	11.9
NW	.1	.6	.7	5.7	.2	1.8	.2	1.8	.1	.9	.0	.0	.0	.1	1.3	10.8	11.9
NNW	.1	.6	.6	5.1	.2	1.7	.2	1.4	.0	.2	.0	.1	.0	.0	1.1	9.2	11.2
CALM	.6	4.9													.6	4.9	
TOTAL	1.7	14.7	6.4	54.8	1.7	14.2	1.3	11.3	.5	4.2	.1	.6	.0	.2	11.6	100	10.0

HUF TERRE HAUTE, IN

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 4 / DAY

STATION NUMBER: 93823

NO. OBS.: 206

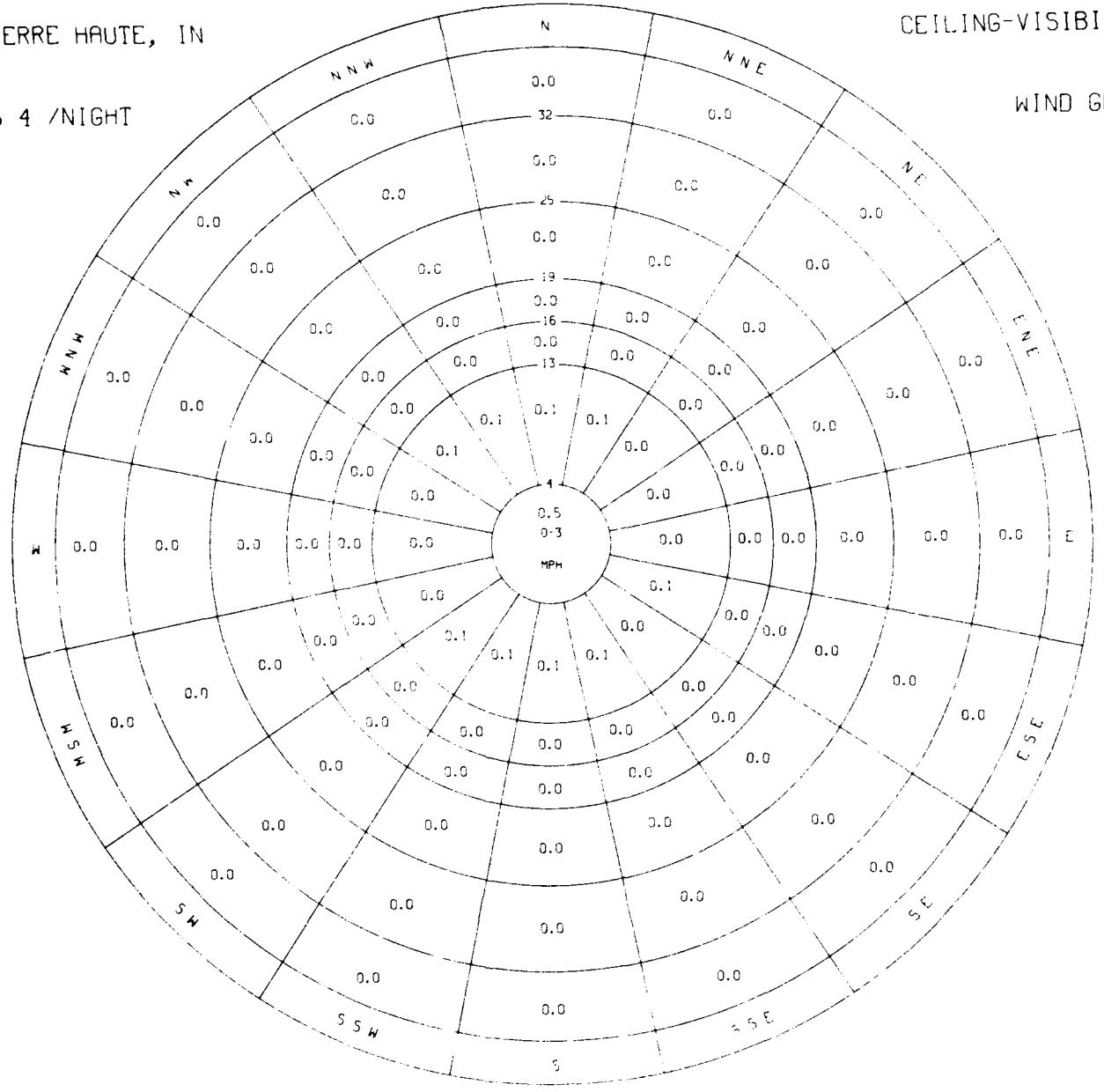
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.0	.1	5.8	.0	1.9	.0	.5	.0	.0	.0	.0	.0	.0	.1	9.2	9.2
NNE	.0	.5	.0	2.9	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.9	6.9
NE	.0	.5	.0	1.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	8.2
ENE	.0	.0	.1	6.3	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.1	6.8	8.3
E	.0	.5	.1	4.4	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.3	7.3
ESE	.0	.0	.0	3.4	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.1	4.4	9.1
SE	.0	1.0	.1	4.9	.0	.5	.0	1.5	.0	.0	.0	.0	.0	.0	.1	7.8	10.2
SSE	.0	.5	.1	5.8	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.8	8.4
S	.0	.0	.1	7.3	.0	1.5	.0	1.9	.0	.0	.0	.0	.0	.0	.1	10.7	10.1
SSW	.0	.5	.0	3.9	.0	1.0	.0	1.0	.0	.0	.0	.5	.0	.0	.1	6.8	11.9
SW	.0	.0	.0	3.9	.0	.5	.0	.0	.0	.5	.0	.5	.0	.0	.1	5.3	11.5
WSW	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	8.0
W	.0	.5	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	6.0
WNW	.0	1.0	.0	1.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	7.1
NW	.0	1.5	.1	5.8	.0	.5	.0	.5	.0	.5	.0	.0	.0	.0	.1	8.7	8.2
NNW	.0	.5	.1	4.4	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.1	5.3	9.4
CALM	.1	7.8													.1	7.8	
TOTAL	.2	15.5	.8	65.5	.1	9.7	.1	5.8	.0	2.4	.0	1.0	.0	.0	1.2	100	8.3

HUF TERRE HAUTE, IN

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 4 / NIGHT

STATION NUMBER: 93823

NO. OBS.: 246

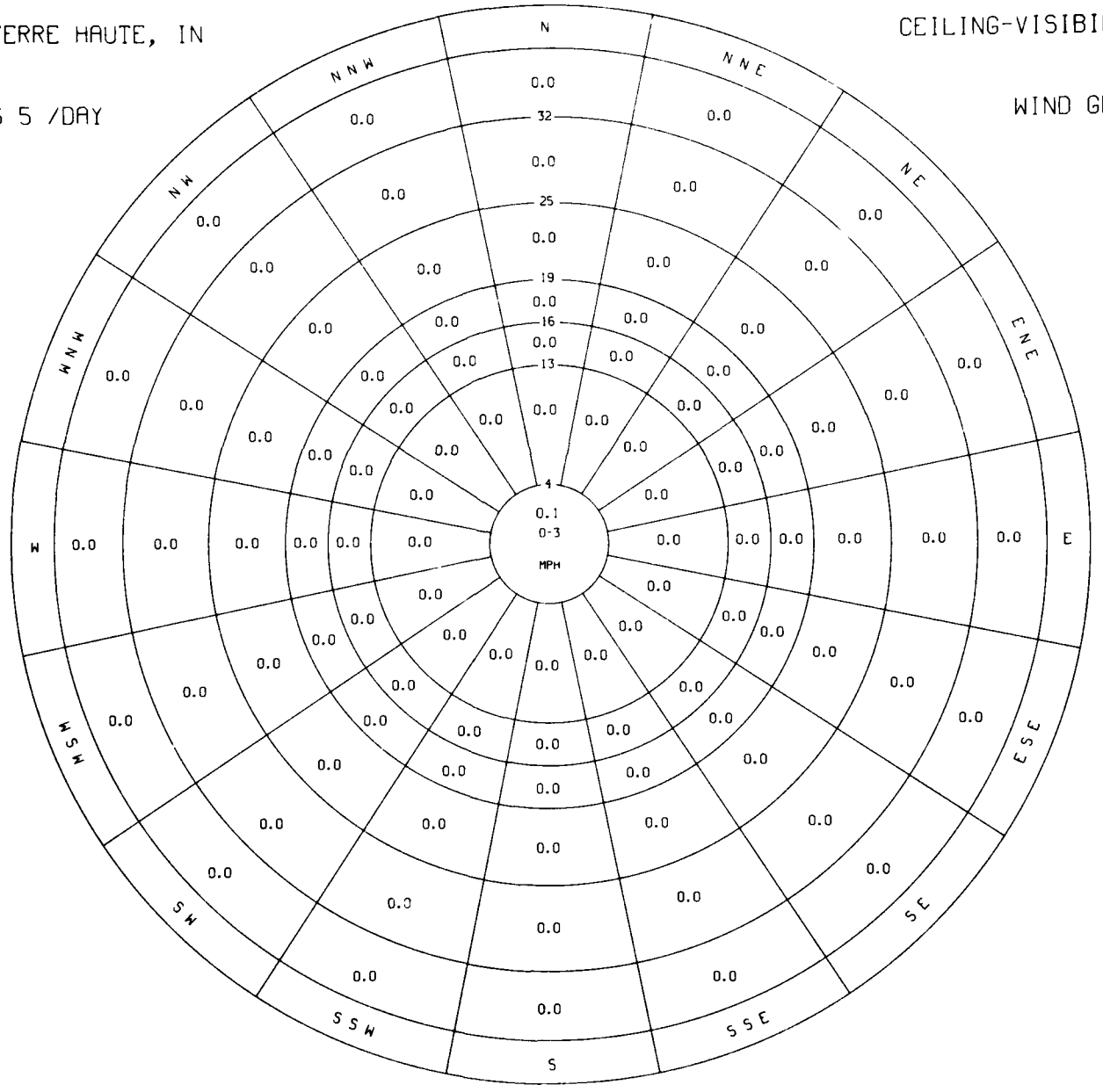
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	4.5	.1	6.9	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.2	12.2	7.1
NNE	.0	1.6	.1	3.3	.0	.8	.0	.4	.0	.4	.0	.0	.0	.0	.1	6.5	9.0
NE	.0	.0	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	9.2
ENE	.0	.0	.0	.8	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	2.0	12.0
E	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.1	3.3	9.5
ESE	.0	.4	.1	3.3	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.5	8.9
SE	.0	2.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.9	5.7
SSE	.0	1.6	.1	4.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.3	8.7
S	.0	.8	.1	6.1	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.1	7.3	7.6
SSW	.0	.4	.1	4.1	.0	.4	.0	.8	.0	1.2	.0	.0	.0	.0	.1	6.9	11.3
SW	.0	2.4	.1	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.5	5.9
WSW	.0	.8	.0	2.0	.0	.0	.0	.4	.0	.0	.0	.4	.0	.0	.1	3.7	9.2
W	.0	.4	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.3	7.8
WNW	.0	.4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	6.7
NW	.1	3.3	.1	4.5	.0	.8	.0	.4	.0	.8	.0	.0	.0	.0	.2	9.8	7.7
NNW	.0	.8	.1	4.1	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.5	9.3
CALM	.2	10.6													.2	10.6	
TOTAL	.5	30.1	.9	55.3	.1	8.1	.0	2.8	.1	3.3	.0	.4	.0	.0	1.6	100	7.4

HUF TERRE HAUTE, IN

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 5 / DAY

STATION NUMBER: 93823

NO. OBS.: 48

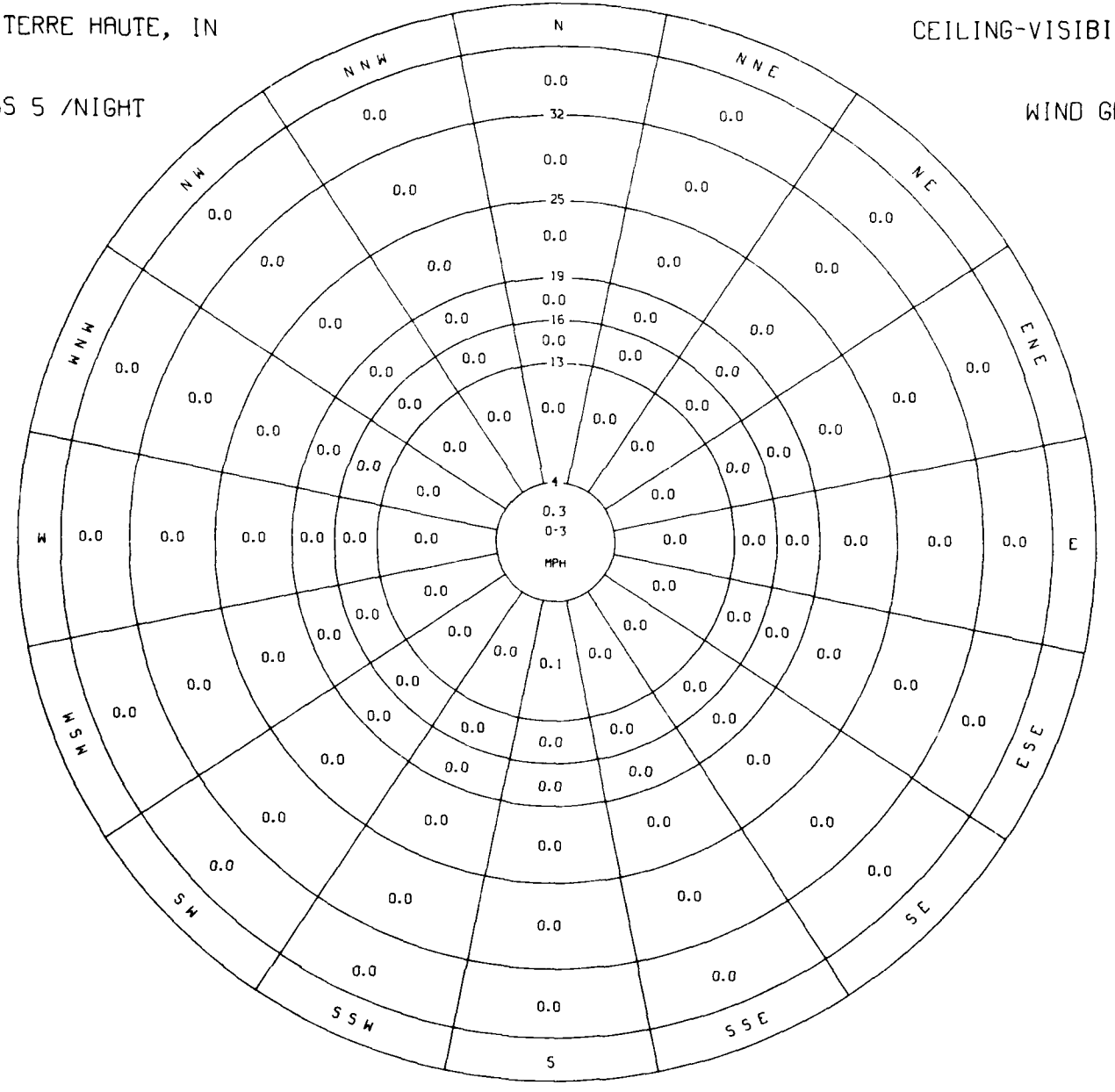
DIR	SPEED GROUPS (MPH)																TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	7.5
NNE	.0	.0	.0	.0	.0	.0	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	4.2	19.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.0	.0	4.2	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	6.3	9.7
E	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	12.0
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	4.2	.0	12.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	16.7	6.3
SSE	.0	2.1	.0	10.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.5	7.0
S	.0	8.3	.0	10.4	.0	.0	.0	4.2	.0	.0	.0	.0	.0	.0	.1	22.9	7.8
SSW	.0	2.1	.0	6.3	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	12.5	9.1
SW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.0	.0	2.1	.0	.0	.0	.0	.0	.0	.0	2.1	.0	.0	.0	4.2	20.0
NW	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	3.0
NNW	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	1.0
CALM	.0	10.4													.0	10.4	
TOTAL	.1	31.3	.1	52.1	.0	2.1	.0	10.4	.0	2.1	.0	2.1	.0	.0	.3	100	7.7

HUF TERRE HAUTE, IN

CEILING-VISIBILITY

CLASS 5 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 5 / NIGHT

STATION NUMBER: 93823

NO. OBS.: 86

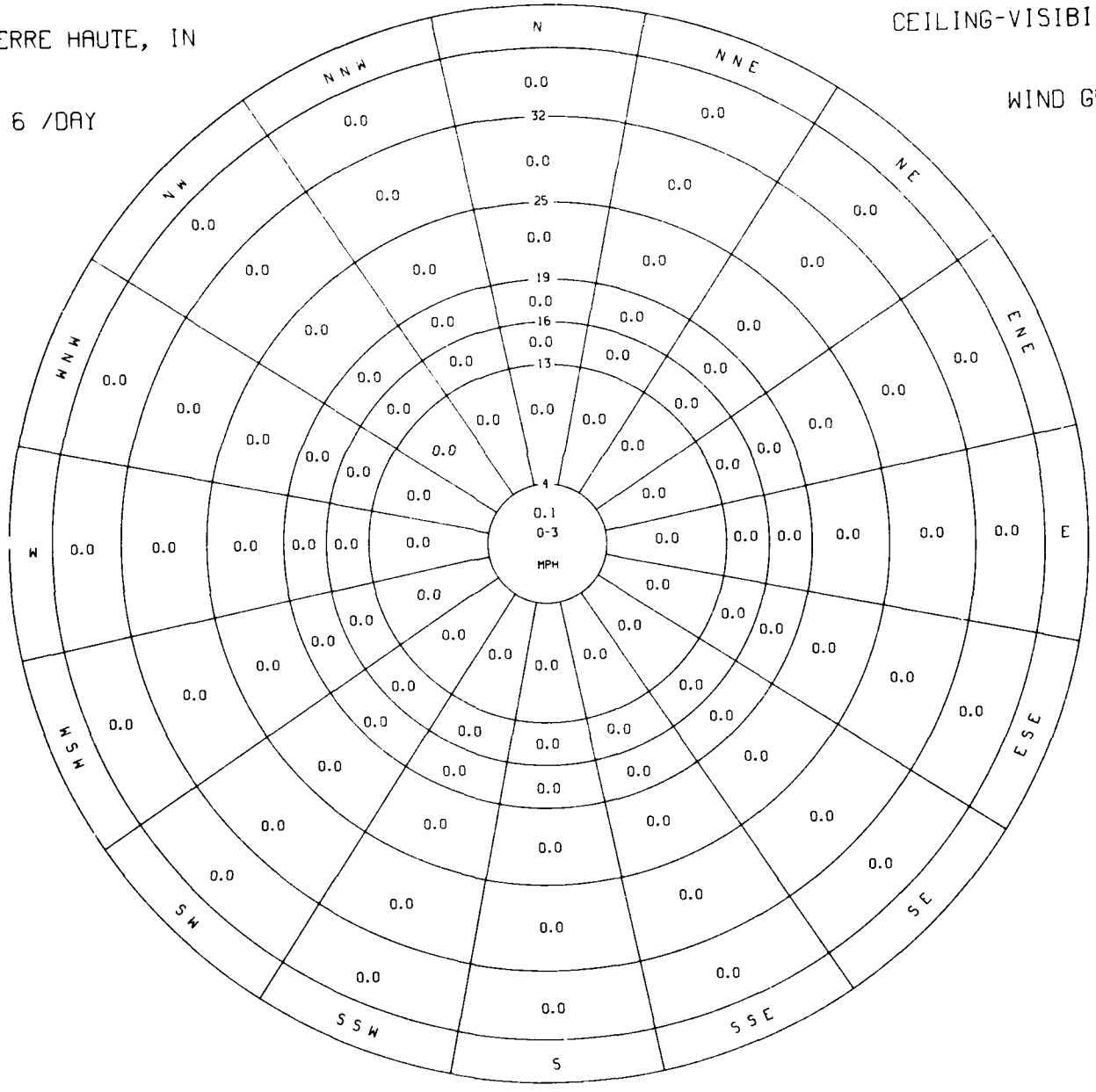
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	1.2	.0	.0	.0	3.5	12.0
NNE	.0	3.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	4.4
NE	.0	2.3	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	3.7
ENE	.0	3.5	.0	2.3	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	7.0	6.3
E	.0	5.8	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	5.1
ESE	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	6.5
SE	.0	.0	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	7.7
SSE	.0	.0	.0	4.7	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	9.0
S	.0	4.7	.1	11.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	16.3	6.0
SSW	.0	2.3	.0	5.8	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.5	10.4
SW	.0	1.2	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	6.3
WSW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	12.0
W	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	4.0
WNW	.0	1.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.3	3.5
NW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	5.0
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	20.9													.1	20.9	
TOTAL	.3	47.7	.3	45.3	.0	4.7	.0	1.2	.0	.0	.0	1.2	.0	.0	.6	100	5.5

HUF TERRE HAUTE, IN

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HUF TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 6 / DAY

STATION NUMBER: 93823

NO. OBS.: 46

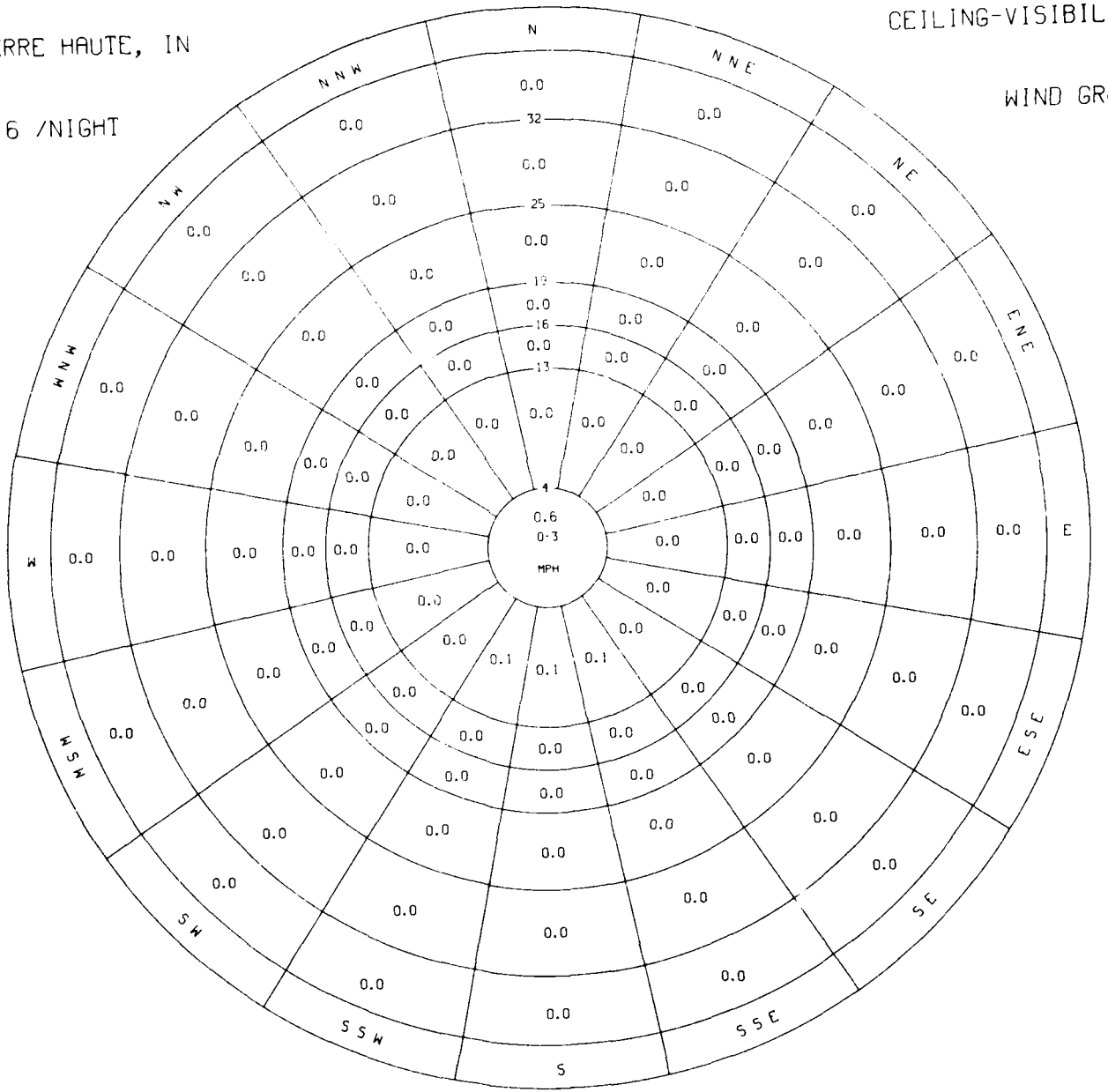
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	4.3	.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.0	4.5
NNE	.0	2.2	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	4.5
NE	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.0
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	4.3	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	3.3
ESE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
SE	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	3.0
SSE	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.3
S	.0	2.2	.0	6.5	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	7.4
SSW	.0	2.2	.0	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	6.8
SW	.0	.0	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	5.3
WSW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.0
W	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	.0	4.3	25.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NNW	.0	.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.0
CALM	.1	26.1													.1	26.1	
TOTAL	.1	45.7	.1	50.0	.0	2.2	.0	.0	.0	.0	.0	.0	.0	2.2	.3	100	4.9

HUF TERRE HAUTE, IN

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: [illegible] TERRE HAUTE, IN

PERIOD: 1948-1977

CLASS 6 / NIGHT

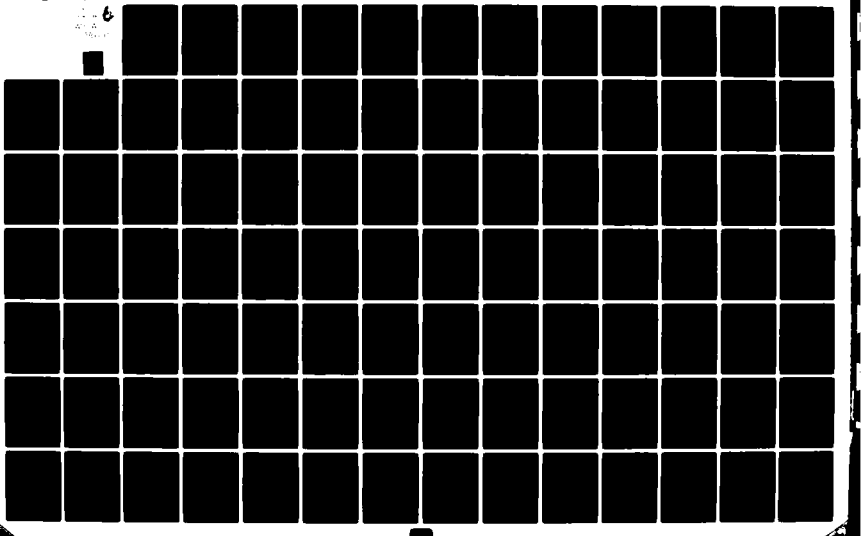
STATION NUMBER: 93820

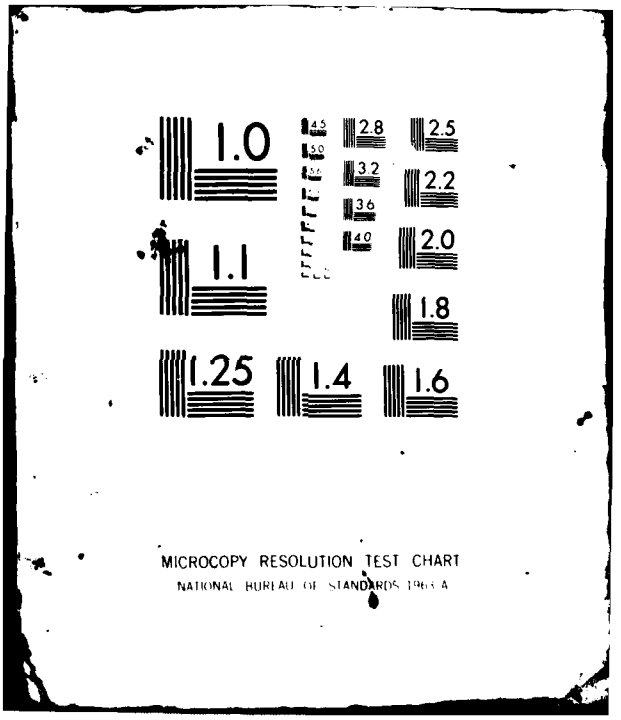
NO. OBS.: 149

DIR	SPEED GROUPS (MPH) 0-3 A	0-3 B	4-12 A	4-12 B	13-15 A	13-15 B	16-18 A	16-18 B	19-24 A	19-24 B	25-31 A	25-31 B	32+ A	32+ B	TOTAL C	TOTAL D	AVG WIND SPEED
N	.0	1.4	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.4	3.4
NNE	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	3.0
NE	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.5
ENE	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.0
E	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	4.2
ESE	.0	2.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	3.8
SE	.0	2.7	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.7	4.7
SSE	.0	3.4	.1	8.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	12.1	5.9
S	.0	4.7	.1	8.1	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	14.1	6.8
SSW	.0	3.4	.1	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.4	6.3
SW	.0	1.4	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	2.8
WSW	.0	.7	.2	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	5.8
W	.0	.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	6.5
WNW	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	1.5
NW	.0	.7	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	5.0
NNW	.0	.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	7.7
VRB	.0	.7	.1	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	23.5	
TOTAL	.0	34.2	.6	64.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	1.0	100	4.9

AD-A108 160 NATIONAL CLIMATIC CENTER ASHEVILLE NC F/G 4/2
WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS, VOLUME I--ETC(U)
JUN 81 DOT-FA79WAI-057

UNCLASSIFIED NL




1.0
1.1
1.25
1.4
1.6
2.8
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3.2
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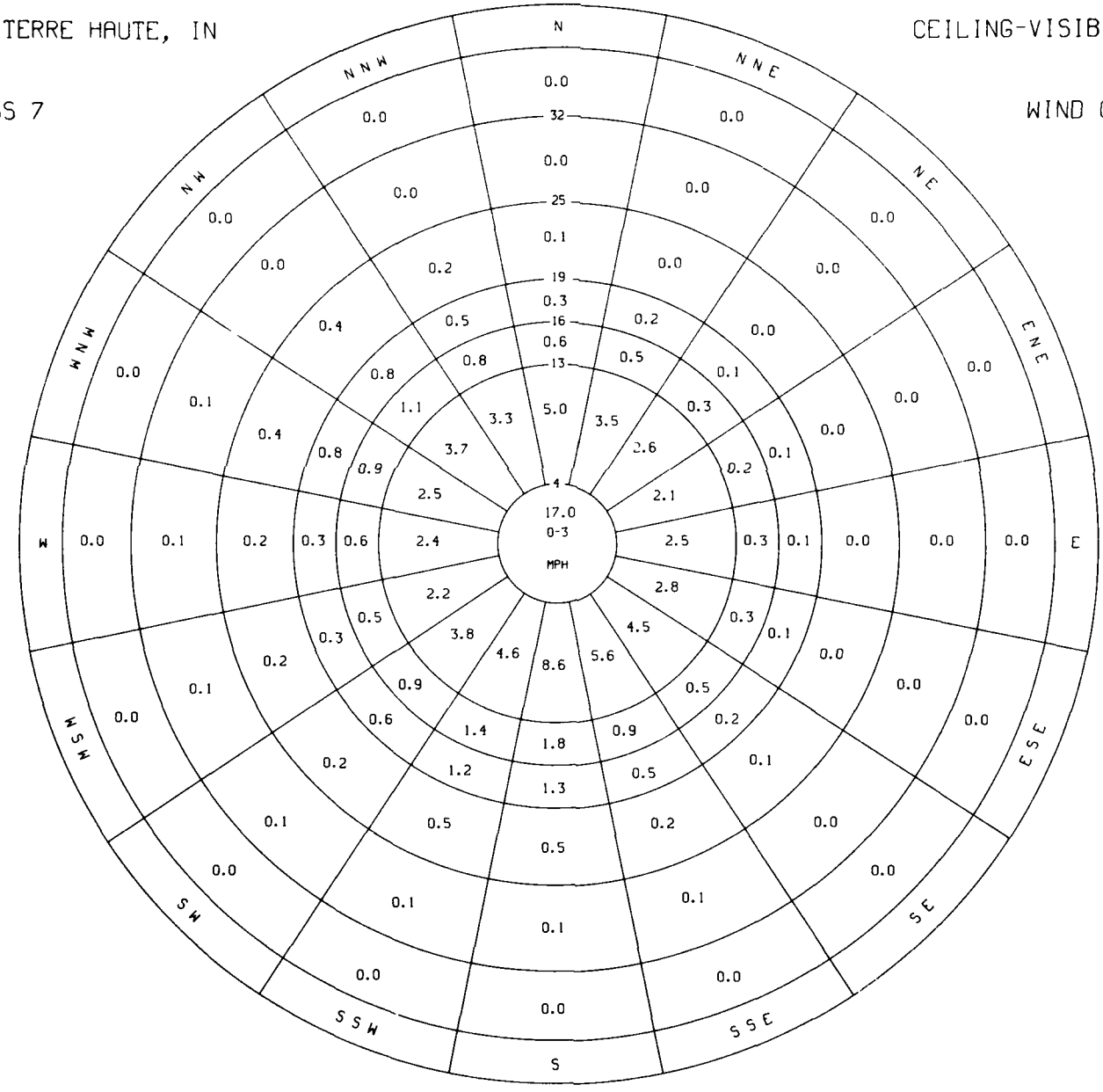
1.8
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963 A

HUF TERRE HAUTE, IN

CEILING-VISIBILITY

CLASS 7

WIND GRAPH

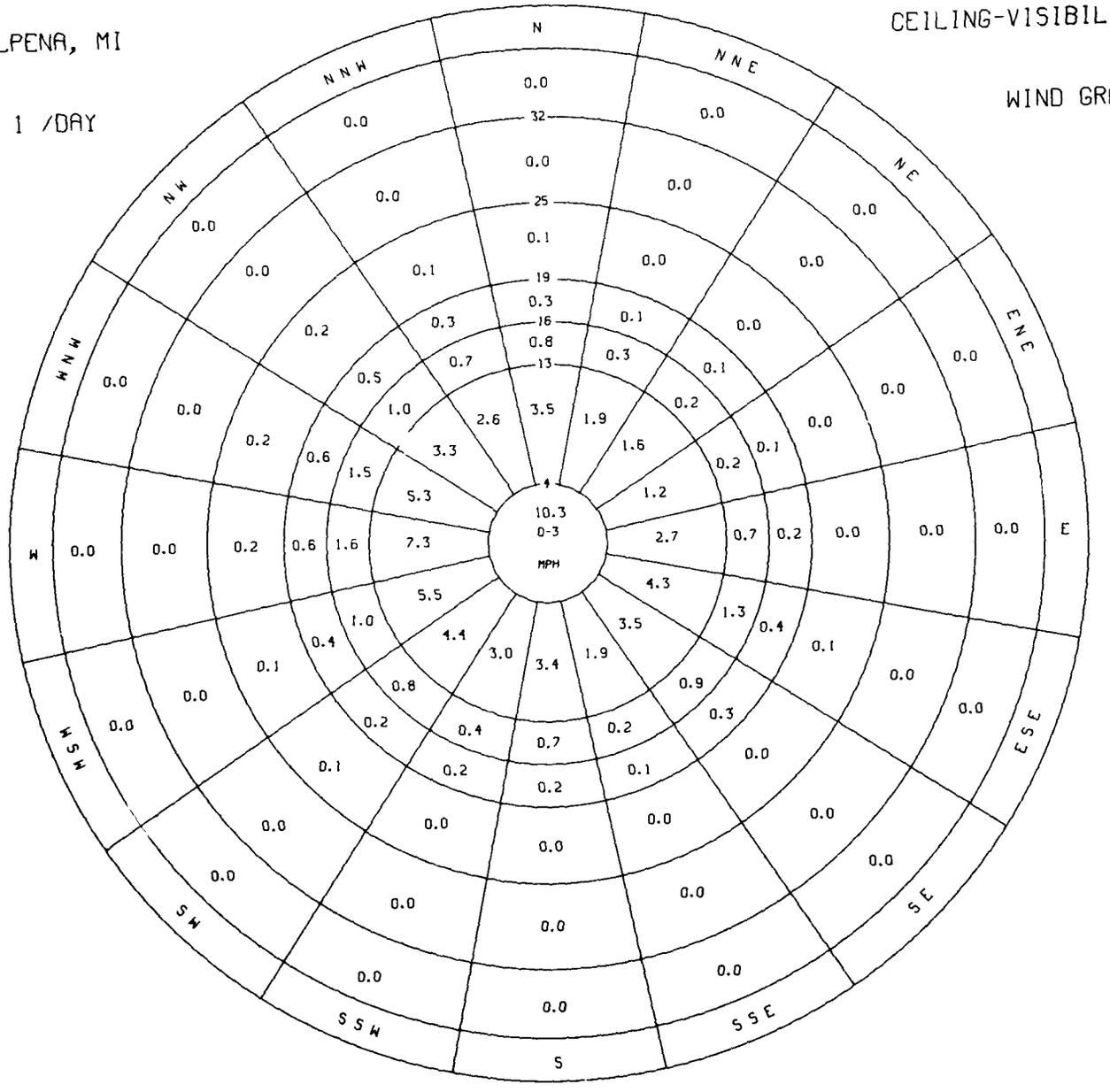


APN ALPENA, MI

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 1 / DAY

STATION NUMBER: 94849

NO. OBS.: 17377

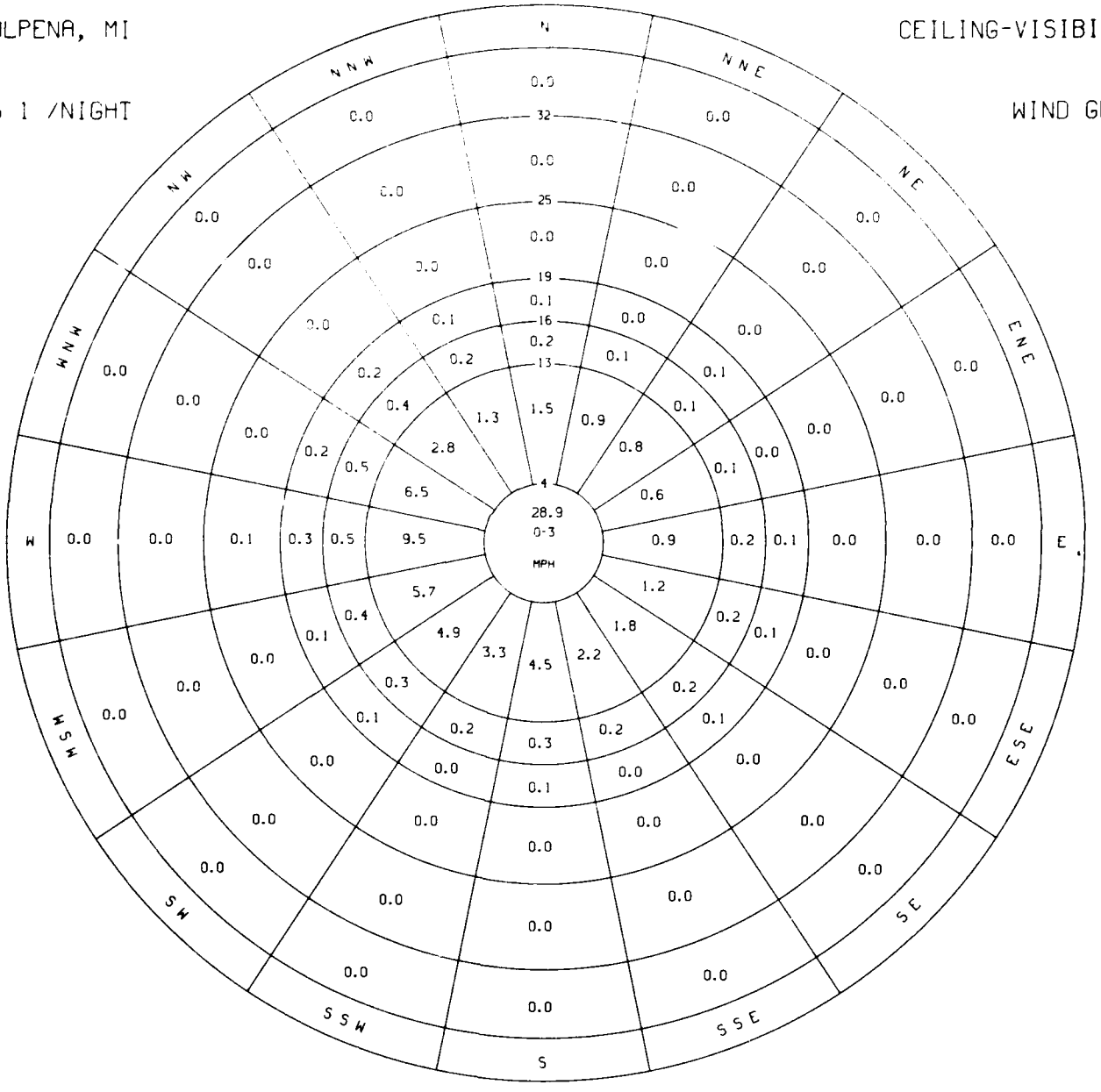
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.6	3.5	4.1	.8	.9	.3	.4	.1	.1	.0	.0	.0	.0	5.2	6.1	9.2
NNE	.4	.4	1.9	2.3	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.2	8.5
NE	.4	.4	1.6	1.9	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.3	2.8	8.1
ENE	.4	.5	1.2	1.5	.2	.3	.1	.2	.0	.0	.0	.0	.0	.0	2.0	2.4	8.4
E	.4	.5	2.7	3.2	.7	.9	.2	.2	.0	.1	.0	.0	.0	.0	4.1	4.8	9.4
ESE	.4	.5	4.3	5.1	1.3	1.6	.4	.5	.1	.1	.0	.0	.0	.0	6.6	7.8	10.2
SE	.5	.6	3.5	4.1	.9	1.0	.3	.3	.0	.1	.0	.0	.0	.0	5.2	6.2	9.2
SSE	.5	.6	1.9	2.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.2	7.5
S	.6	.7	3.4	4.1	.7	.8	.2	.2	.0	.0	.0	.0	.0	.0	4.9	5.9	8.6
SSW	.6	.7	3.0	3.5	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	4.2	5.0	8.3
SW	.8	.9	4.4	5.2	.8	.9	.2	.3	.1	.1	.0	.0	.0	.0	6.3	7.5	8.6
WSW	.9	1.1	5.5	6.5	1.0	1.2	.4	.5	.1	.1	.0	.0	.0	.0	8.0	9.5	8.8
W	1.2	1.5	7.3	8.6	1.6	1.9	.6	.7	.2	.2	.0	.0	.0	.0	10.9	13.0	9.1
WNW	.8	.9	5.3	6.3	1.5	1.8	.6	.7	.2	.2	.0	.0	.0	.0	8.5	10.0	9.8
NW	.6	.7	3.3	4.0	1.0	1.2	.5	.6	.2	.2	.0	.0	.0	.0	5.6	6.6	9.9
NNW	.4	.5	2.6	3.1	.7	.9	.3	.4	.1	.1	.0	.0	.0	.0	4.1	4.9	9.7
CALM	1.0	1.2													1.0	1.2	
TOTAL	10.3	12.3	55.6	65.9	12.5	14.8	4.6	5.4	1.2	1.4	.1	.2	.0	.0	84.4	100	9.0

APN ALPENA, MI

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 1 / NIGHT

STATION NUMBER: 94849

NO. OBS.: 14486

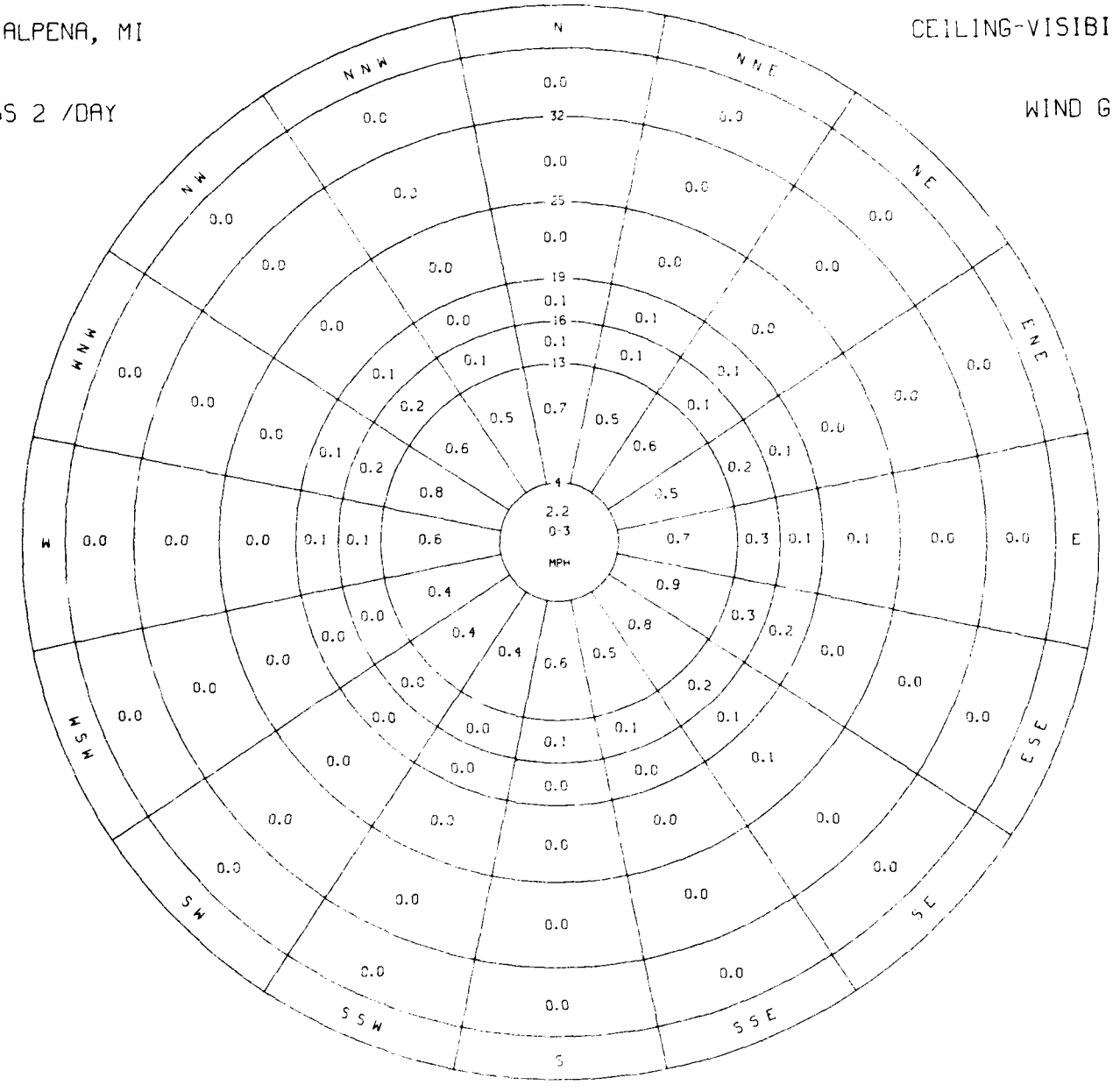
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.9	1.1	1.5	1.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.3	6.6
NNE	.6	.7	.9	1.0	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.6	2.0	6.3
NE	.6	.7	.8	1.0	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.6	1.9	6.4
ENE	.5	.6	.6	.7	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	1.2	1.5	6.7
E	.5	.6	.9	1.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.6	1.9	7.2
ESE	.6	.8	1.2	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.1	2.5	7.1
SE	1.1	1.3	1.8	2.2	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.3	3.9	6.3
SSE	1.6	1.9	2.2	2.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	4.0	4.8	5.5
S	2.6	3.1	4.5	5.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	7.5	9.0	6.0
SSW	1.6	2.0	3.3	3.9	.2	.3	.0	.0	.0	.0	.0	.0	.0	.0	5.2	6.2	6.1
SW	2.5	3.0	4.9	5.9	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	7.8	9.4	6.0
WSW	3.1	3.7	5.7	6.9	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	9.4	11.3	6.0
W	4.0	4.8	9.5	11.4	.5	.7	.3	.3	.1	.1	.0	.0	.0	.0	14.4	17.3	6.3
WNW	2.1	2.5	6.5	7.8	.5	.6	.2	.3	.0	.0	.0	.0	.0	.0	9.4	11.2	6.9
NW	1.1	1.4	2.8	3.3	.4	.4	.2	.2	.0	.0	.0	.0	.0	.0	4.5	5.3	7.1
NNW	.8	1.0	1.3	1.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.4	2.9	6.6
CALM	4.6	5.6													4.6	5.6	
TOTAL	28.9	34.7	48.4	58.1	4.1	4.9	1.6	1.9	.3	.4	.0	.1	.0	.0	83.4	100	6.0

APN ALPENA, MI

CEILING-VISIBILITY

CLASS 2 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 2 / DAY

STATION NUMBER: 94849

NO. OBS.: 3216

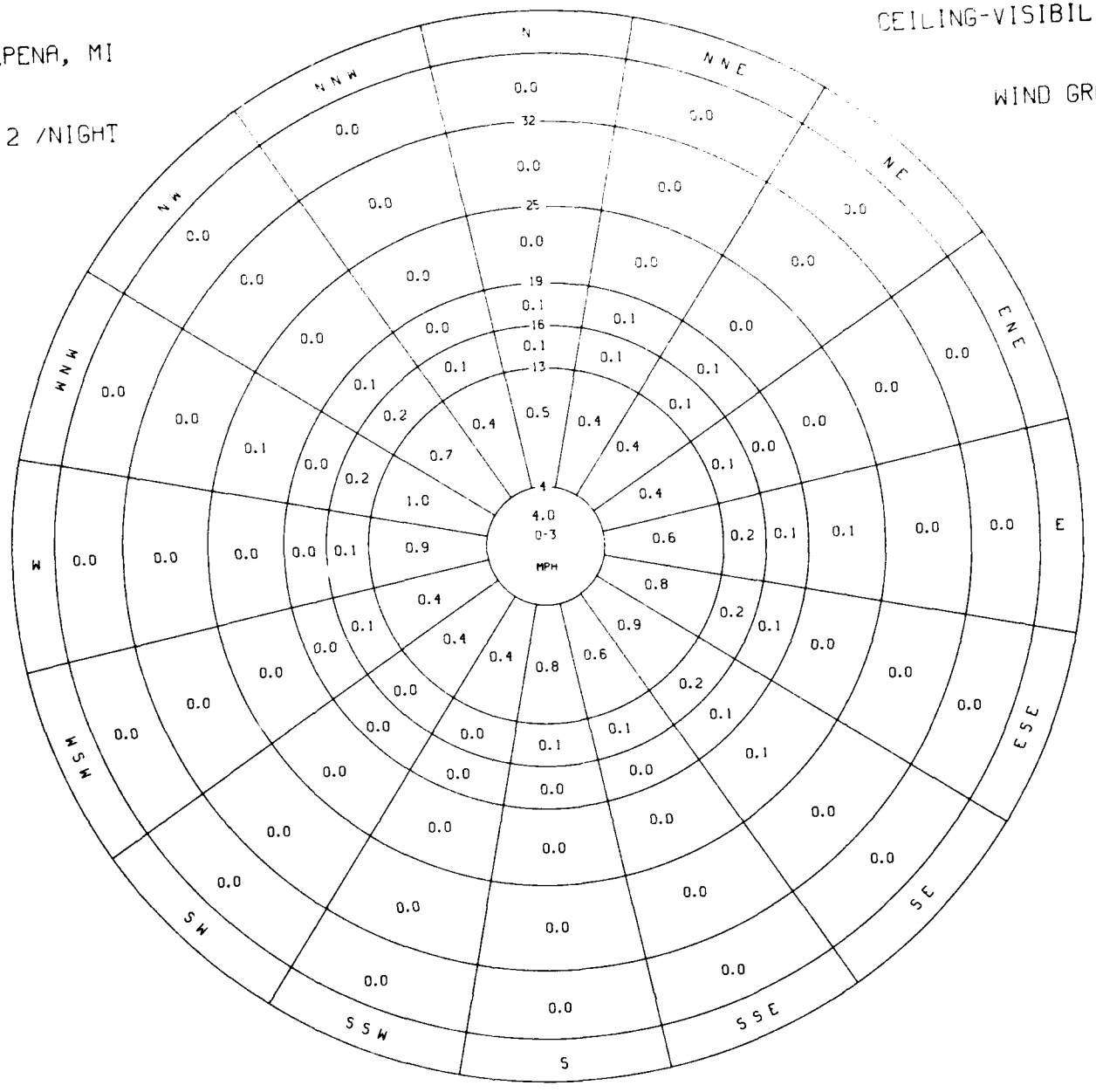
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	1.1	.7	4.7	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	1.2	7.6	9.2
NNE	.1	.6	.5	3.3	.1	.9	.1	.4	.0	.3	.0	.1	.0	.0	.9	5.6	10.3
NE	.1	.5	.6	3.8	.1	.6	.1	.4	.0	.3	.0	.1	.0	.0	.9	5.6	10.1
ENE	.1	.5	.5	3.2	.2	1.1	.1	.5	.0	.2	.0	.1	.0	.0	.9	5.6	10.6
E	.1	.5	.7	4.5	.3	1.7	.1	.9	.1	.5	.0	.1	.0	.0	1.3	8.1	11.0
ESE	.1	.5	.9	5.9	.3	1.9	.2	1.0	.0	.2	.0	.0	.0	.0	1.5	9.5	10.3
SE	.1	.5	.8	5.1	.2	1.2	.1	.9	.1	.3	.0	.0	.0	.0	1.3	8.1	10.4
SSE	.2	1.0	.5	3.3	.1	.5	.0	.2	.0	.2	.0	.0	.0	.0	.8	5.2	8.1
S	.2	1.3	.6	3.8	.1	.8	.0	.2	.0	.1	.0	.0	.0	.0	1.0	6.1	7.6
SSW	.1	.7	.4	2.6	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.5	3.5	6.3
SW	.2	1.0	.4	2.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.9	6.5
WSW	.2	1.1	.4	2.7	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.6	4.1	6.7
W	.2	1.5	.6	4.1	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	1.0	6.7	7.9
WNW	.1	.8	.8	4.9	.2	1.2	.1	.5	.0	.1	.0	.0	.0	.0	1.2	7.5	9.1
NW	.1	.5	.6	3.9	.2	1.0	.1	.6	.0	.3	.0	.0	.0	.0	1.0	6.3	10.5
NNW	.1	.5	.5	3.2	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.8	4.9	9.7
CALM	.3	1.7													.3	1.7	
TOTAL	2.2	14.3	9.6	61.8	2.1	13.7	1.1	6.8	.5	2.9	.1	.5	.0	.0	15.6	100	9.1

APN ALPENA, MI

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 2 / NIGHT

STATION NUMBER: 94849

NO. OBS.: 2893

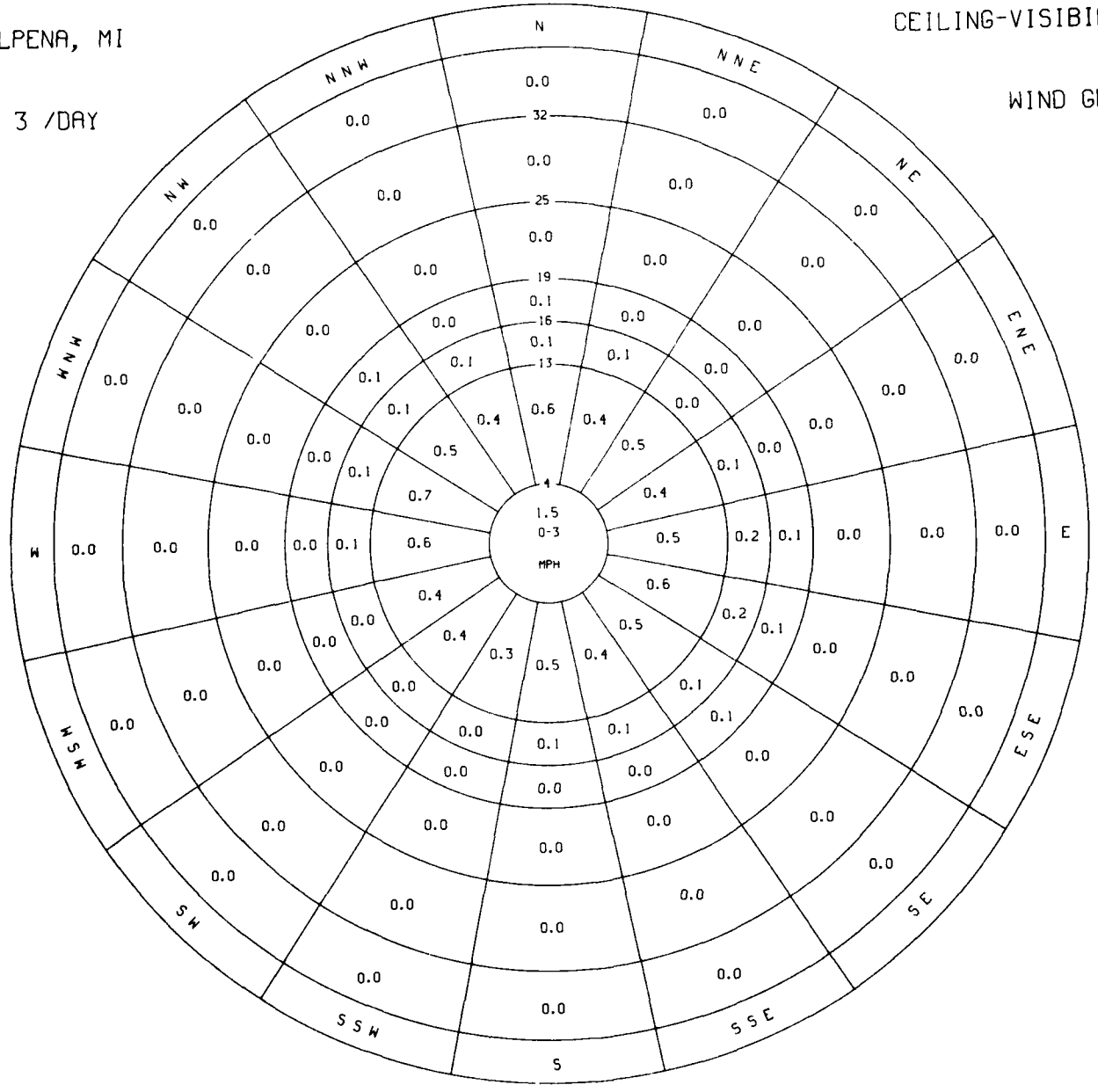
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	1.1	.5	3.1	.1	.8	.1	.3	.0	.2	.0	.0	.0	.0	.9	5.5	8.8
NNE	.1	.6	.4	2.4	.1	.8	.1	.7	.0	.1	.0	.0	.0	.0	.8	4.6	10.3
NE	.1	.6	.4	2.3	.1	.4	.1	.5	.0	.2	.0	.0	.0	.0	.7	4.0	9.7
ENE	.1	.5	.4	2.6	.1	.4	.0	.2	.0	.3	.0	.1	.0	.0	.7	4.1	9.8
E	.2	1.2	.6	3.4	.2	1.2	.1	.6	.1	.4	.0	.1	.0	.0	1.1	6.9	10.0
ESE	.3	1.6	.8	4.5	.2	1.3	.1	.6	.0	.3	.0	.1	.0	.0	1.4	8.4	9.2
SE	.3	1.8	.9	5.3	.2	1.2	.1	.7	.1	.4	.0	.0	.0	.0	1.6	9.4	9.0
SSE	.3	1.6	.6	3.5	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	1.0	5.7	7.0
S	.4	2.2	.8	4.7	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	1.2	7.4	6.6
SSW	.2	1.2	.4	2.4	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.8	6.0
SW	.3	1.6	.4	2.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.9	5.6
WSW	.3	1.5	.4	2.5	.1	.4	.0	.0	.0	.0	.0	.0	.0	.0	.7	4.5	6.3
W	.3	2.1	.9	5.3	.1	.8	.0	.2	.0	.1	.0	.0	.0	.0	1.4	8.4	7.1
WNW	.3	1.8	1.0	5.9	.2	1.0	.0	.2	.1	.3	.0	.0	.0	.0	1.5	9.2	8.2
NW	.2	1.0	.7	3.9	.2	1.2	.1	.7	.0	.2	.0	.0	.0	.0	1.2	7.0	9.5
NNW	.1	.6	.4	2.4	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.6	3.9	8.7
CALM	.6	3.3													.6	3.3	
TOTAL	4.0	24.3	9.4	56.3	1.8	11.1	.9	5.3	.4	2.7	.1	.3	.0	.0	16.6	100	8.0

APN ALPENA, MI

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 3 / DAY

STATION NUMBER: 94849

NO. OBS.: 2415

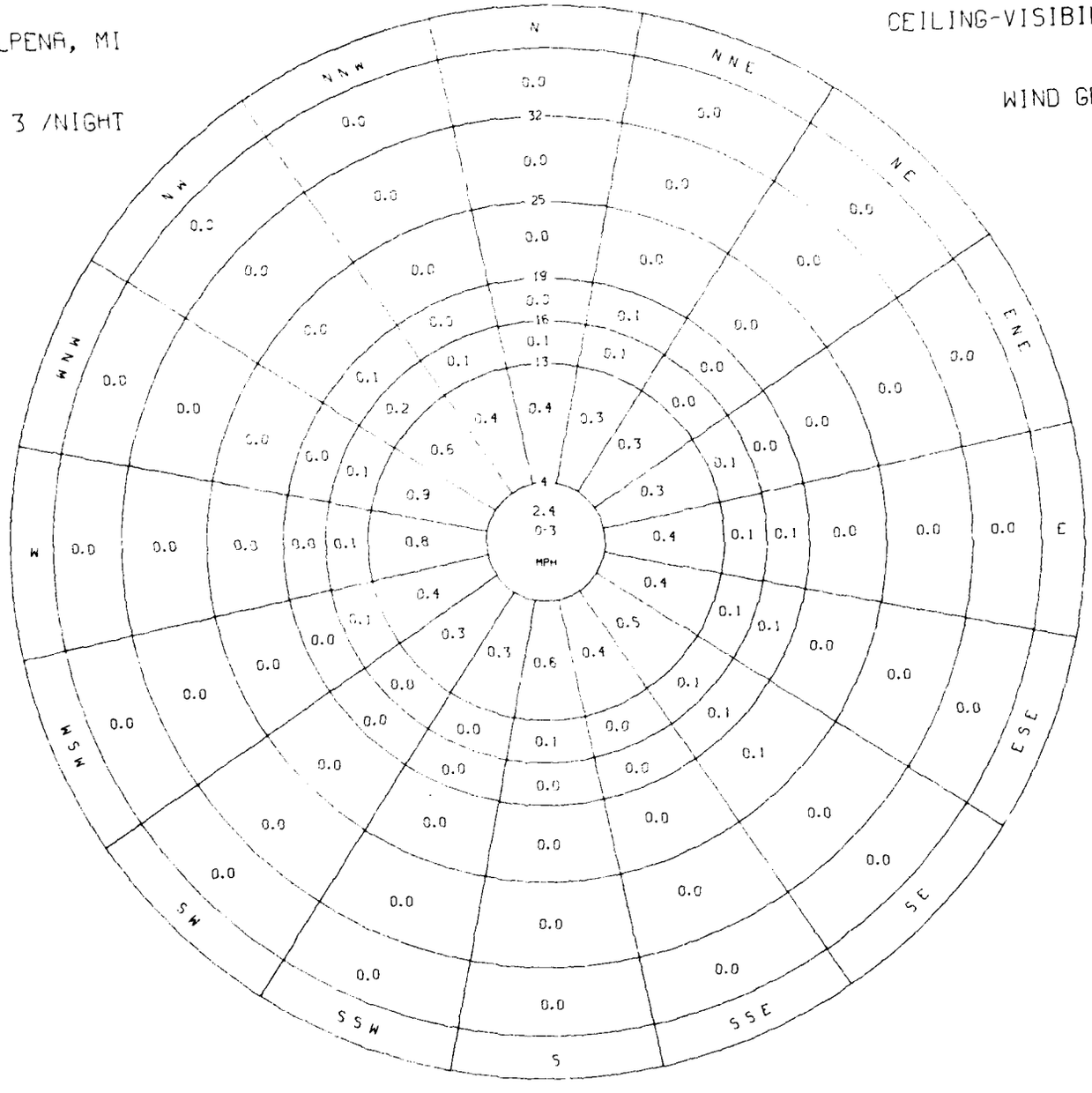
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	1.0	.6	5.3	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.9	8.0	8.9
NNE	.0	.4	.4	3.6	.1	1.0	.0	.3	.0	.2	.0	.0	.0	.0	.6	5.5	9.7
NE	.0	.4	.5	4.1	.0	.4	.0	.3	.0	.1	.0	.0	.0	.0	.6	5.3	9.5
ENE	.1	.5	.4	3.1	.1	1.2	.0	.4	.0	.2	.0	.1	.0	.0	.6	5.5	10.6
E	.1	.5	.5	3.9	.2	1.3	.1	.7	.0	.4	.0	.0	.0	.0	.8	6.7	10.9
ESE	.0	.2	.6	4.9	.2	1.8	.1	.7	.0	.1	.0	.0	.0	.0	.9	7.7	10.7
SE	.1	.5	.5	4.3	.1	1.1	.1	1.0	.0	.4	.0	.0	.0	.0	.9	7.3	10.7
SSE	.1	.8	.4	3.2	.1	.7	.0	.3	.0	.2	.0	.0	.0	.0	.6	5.1	8.8
S	.1	1.2	.5	4.0	.1	.9	.0	.2	.0	.1	.0	.0	.0	.0	.7	6.3	7.9
SSW	.1	.9	.3	2.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.4	3.8	6.2
SW	.1	1.0	.4	3.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.6	6.8
WSW	.1	.9	.4	3.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.5	7.2
W	.2	1.4	.6	5.1	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.9	7.7	8.2
WNW	.1	.7	.7	5.9	.1	1.2	.0	.4	.0	.2	.0	.0	.0	.0	1.0	8.4	9.2
NW	.1	.5	.5	4.4	.1	1.2	.1	.7	.0	.1	.0	.0	.0	.0	.8	7.0	10.3
NNW	.1	.5	.4	3.5	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.6	5.1	9.2
CALM	.2	1.4													.2	1.4	
TOTAL	1.5	12.7	7.6	64.7	1.6	13.7	.7	6.3	.3	2.4	.0	.2	.0	.0	11.7	100	9.1

APN ALPENA, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 3 / NIGHT

STATION NUMBER: 94849

NO. OBS.: 2078

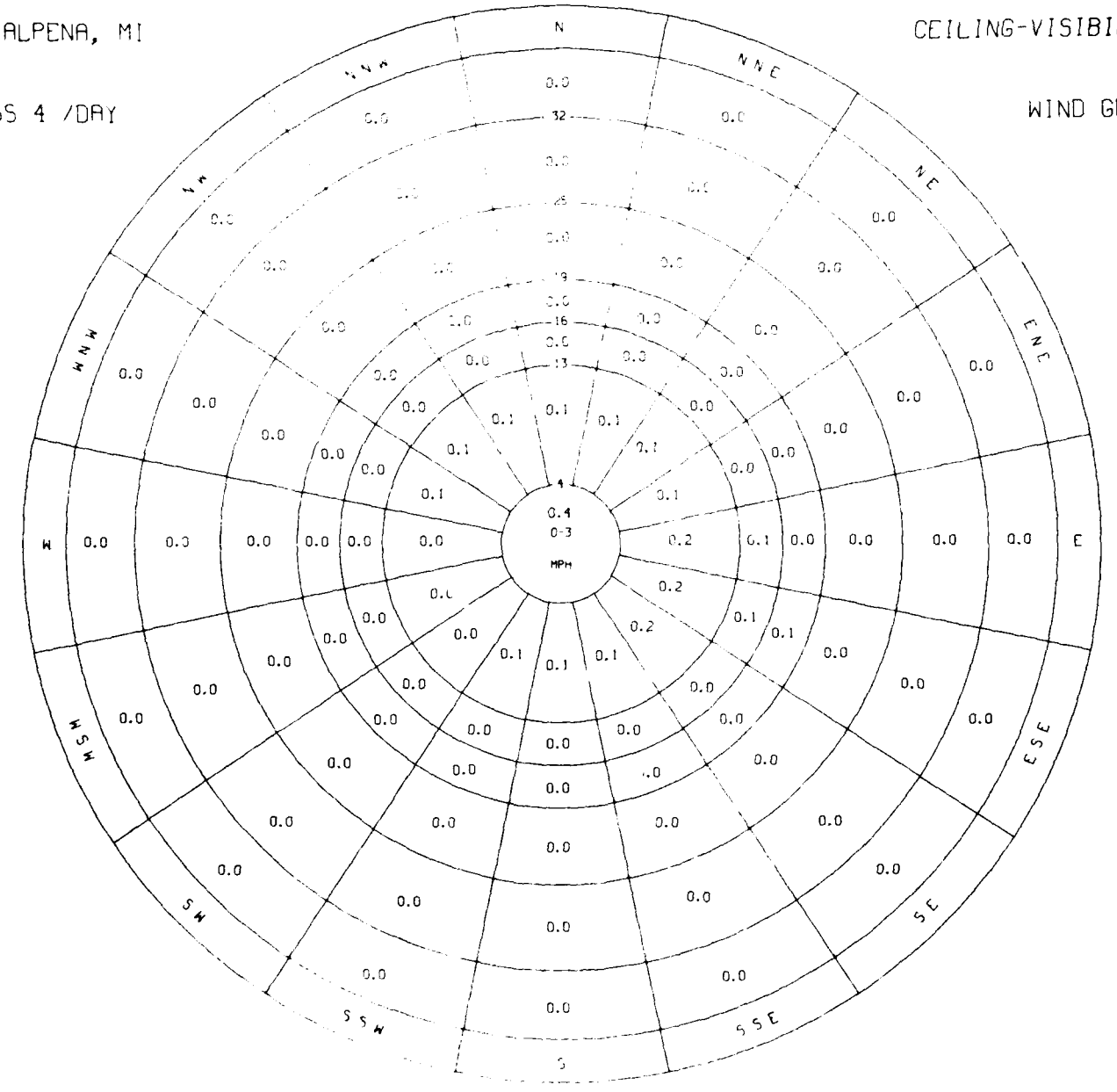
DIR	SPEED GROUPS (MPH) 0-3 A	0-3 B	4-12 A	4-12 B	13-15 A	13-15 B	16-18 A	16-18 B	19-24 A	19-24 B	25-31 A	25-31 B	32+ A	32+ B	TOTAL C	TOTAL D	AVG WIND SPEED
N	.1	1.0	.4	3.5	.1	.9	.0	.2	.0	.2	.0	.0	.0	.0	.7	5.7	8.9
NNE	.1	.5	.3	2.3	.1	1.0	.1	.7	.0	.1	.0	.0	.0	.0	.6	4.6	10.5
NE	.1	.6	.3	2.3	.0	.3	.0	.3	.0	.2	.0	.0	.0	.0	.4	3.7	9.2
ENE	.1	.4	.3	2.1	.1	.4	.0	.1	.0	.2	.0	.1	.0	.0	.4	3.4	9.9
E	.1	.8	.4	3.0	.1	1.2	.1	.7	.0	.3	.0	.0	.0	.0	.7	5.9	10.4
ESE	.1	1.2	.4	3.5	.1	1.2	.1	.6	.0	.2	.0	.0	.0	.0	.8	6.6	9.4
SE	.2	1.4	.5	4.2	.1	1.3	.1	.9	.1	.5	.0	.0	.0	.0	1.0	8.3	9.9
SSE	.1	1.1	.4	3.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.6	4.9	7.8
S	.2	1.8	.6	5.4	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.9	7.8	7.2
SSW	.1	1.2	.3	2.7	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.5	4.1	6.6
SW	.2	1.4	.3	2.6	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.5	4.2	6.2
WSW	.2	1.5	.4	3.0	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.2	6.8
W	.2	1.9	.8	6.5	.1	1.0	.0	.2	.0	.1	.0	.0	.0	.0	1.2	9.8	7.6
WNW	.2	1.3	.9	7.4	.1	1.3	.0	.2	.0	.3	.0	.0	.0	.0	1.3	10.5	8.5
NW	.1	.8	.6	4.7	.2	1.5	.1	.8	.0	.0	.0	.0	.0	.0	.9	7.7	9.8
NNW	.1	.7	.4	3.0	.1	.8	.0	.1	.0	.0	.0	.0	.0	.0	.6	4.6	8.7
CALM	.3	2.9													.3	2.9	
TOTAL	2.4	20.4	7.1	59.3	1.5	12.5	.7	5.5	.3	2.2	.0	.1	.0	.0	12.0	100	8.4

APN ALPENA, MI

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 4 / DAY

STATION NUMBER: 94849

NO. OBS.: 546

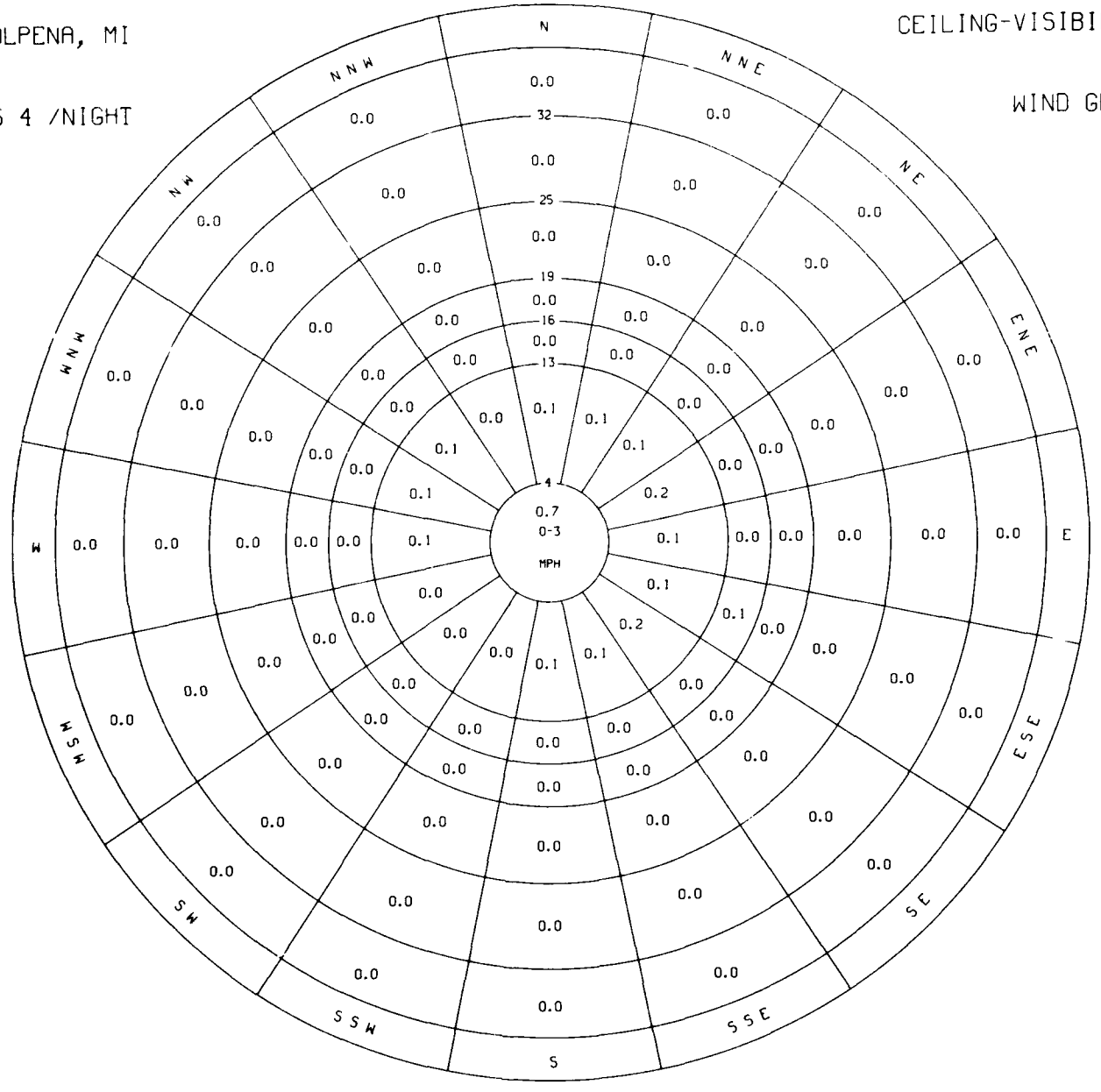
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.8	.1	3.7	.0	.5	.0	1.1	.0	.2	.0	.0	.0	.0	.2	7.3	8.9
NNE	.0	.7	.1	2.6	.0	.9	.0	.7	.0	.9	.0	.2	.0	.0	.2	6.0	11.7
NE	.0	.9	.1	3.7	.0	1.5	.0	.4	.0	.5	.0	.0	.0	.0	.2	7.0	10.0
ENE	.0	.5	.1	3.3	.0	.5	.0	.9	.0	.0	.0	.2	.0	.0	.1	5.5	10.3
E	.0	.5	.2	6.8	.1	3.8	.0	1.8	.0	.9	.0	.0	.0	.0	.4	13.9	11.7
ESE	.0	1.8	.2	6.4	.1	2.4	.1	2.2	.0	.5	.0	.0	.0	.0	.4	13.4	10.3
SE	.0	.2	.2	6.4	.0	1.8	.0	.5	.0	.2	.0	.0	.0	.0	.2	9.2	10.5
SSE	.0	1.3	.1	3.8	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.3	7.0
S	.0	1.1	.1	3.7	.0	.9	.0	.2	.0	.0	.0	.0	.0	.0	.2	5.9	7.2
SSW	.0	.2	.1	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.9	7.0
SW	.0	.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.0	5.5
WSW	.0	1.3	.0	1.3	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.7	4.8
W	.0	.5	.0	1.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	3.1	5.8
WNW	.0	.3	.1	2.6	.0	1.6	.0	.5	.0	.0	.0	.0	.0	.0	.2	6.0	9.0
NW	.0	.2	.1	2.4	.0	.4	.0	.7	.0	.5	.0	.0	.0	.0	.1	4.4	11.2
NNW	.0	.3	.1	2.6	.0	.9	.0	.2	.0	.0	.0	.0	.0	.0	.1	4.0	13.3
CALM	.3														.3		
TOTAL	.4	14.9	1.6	52.5	.4	15.8	.2	9.5	.0	3.5	.0	.4	.0	.0	2.6	100	9.5

APN ALPENA, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 4 / NIGHT

STATION NUMBER: 94849

NO. OBS.: 464

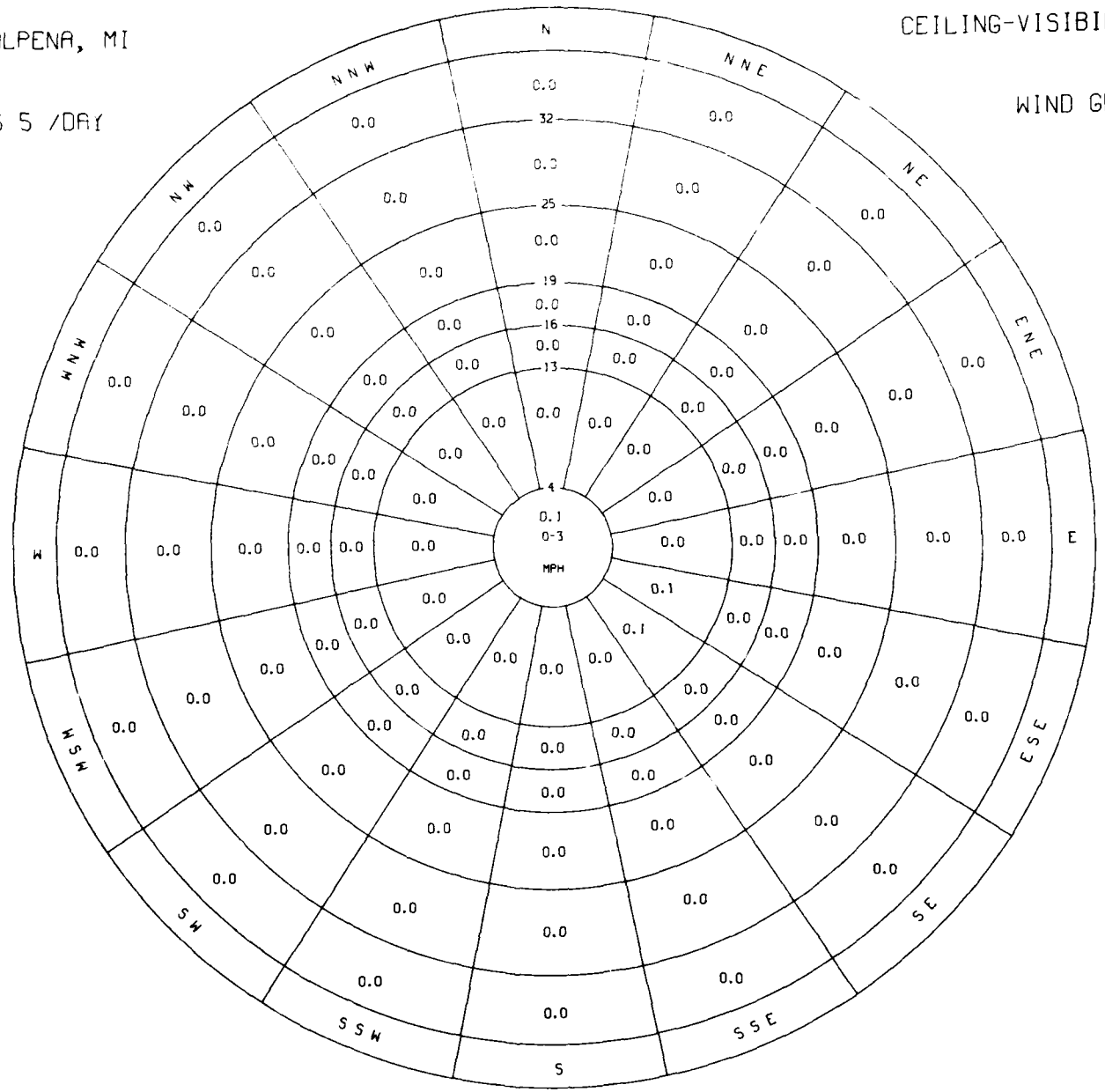
DIR	SPEED GROUPS MPH																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.1	.1	3.4	.0	.9	.0	.6	.0	.0	.0	.0	.0	.0	.2	6.0	8.2
NNE	.0	.4	.1	2.8	.0	.2	.0	.6	.0	.4	.0	.2	.0	.0	.1	4.5	10.0
NE	.0	.4	.1	3.2	.0	.6	.0	1.3	.0	.5	.0	.2	.0	.0	.2	6.3	11.3
ENE	.0	.6	.2	5.8	.0	.9	.0	.6	.0	.6	.0	.3	.0	.0	.2	8.6	9.9
E	.0	1.3	.1	5.4	.0	1.5	.0	.4	.0	1.1	.0	.2	.0	.0	.3	9.9	10.7
ESE	.1	1.9	.1	4.7	.1	2.8	.0	1.3	.0	.4	.0	.2	.0	.0	.3	11.4	10.4
SE	.0	1.1	.2	6.0	.0	1.3	.0	.4	.0	.2	.0	.0	.0	.0	.2	9.1	8.9
SSE	.1	2.2	.1	4.3	.0	.6	.0	.2	.0	.2	.0	.0	.0	.0	.2	7.5	7.0
S	.1	2.8	.1	4.1	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.2	6.9	5.1
SSW	.0	1.1	.0	1.7	.0	.0	.0	.0	.0	.1	.0	.0	.0	.0	.1	2.8	4.6
SW	.0	1.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.2	4.1
WSW	.0	.4	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	1.9	5.1
W	.0	1.5	.1	2.6	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.1	4.5	6.3
WNW	.1	1.9	.1	2.6	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.2	5.8	7.5
NW	.0	1.5	.1	2.4	.0	.9	.0	.4	.0	.4	.0	.0	.0	.0	.1	5.6	9.1
NNW	.0	.6	.0	1.3	.0	.2	.0	.4	.0	.0	.0	.0	.0	.0	.1	2.6	7.0
CALM	.1	4.3													.1	4.3	
TOTAL	.7	24.6	1.4	52.8	.3	10.6	.2	6.9	.1	4.7	.0	.4	.0	.0	2.7	100	8.2

APN ALPENA, MI

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 5 / DAY

STATION NUMBER: 94849

NO. OBS.: 139

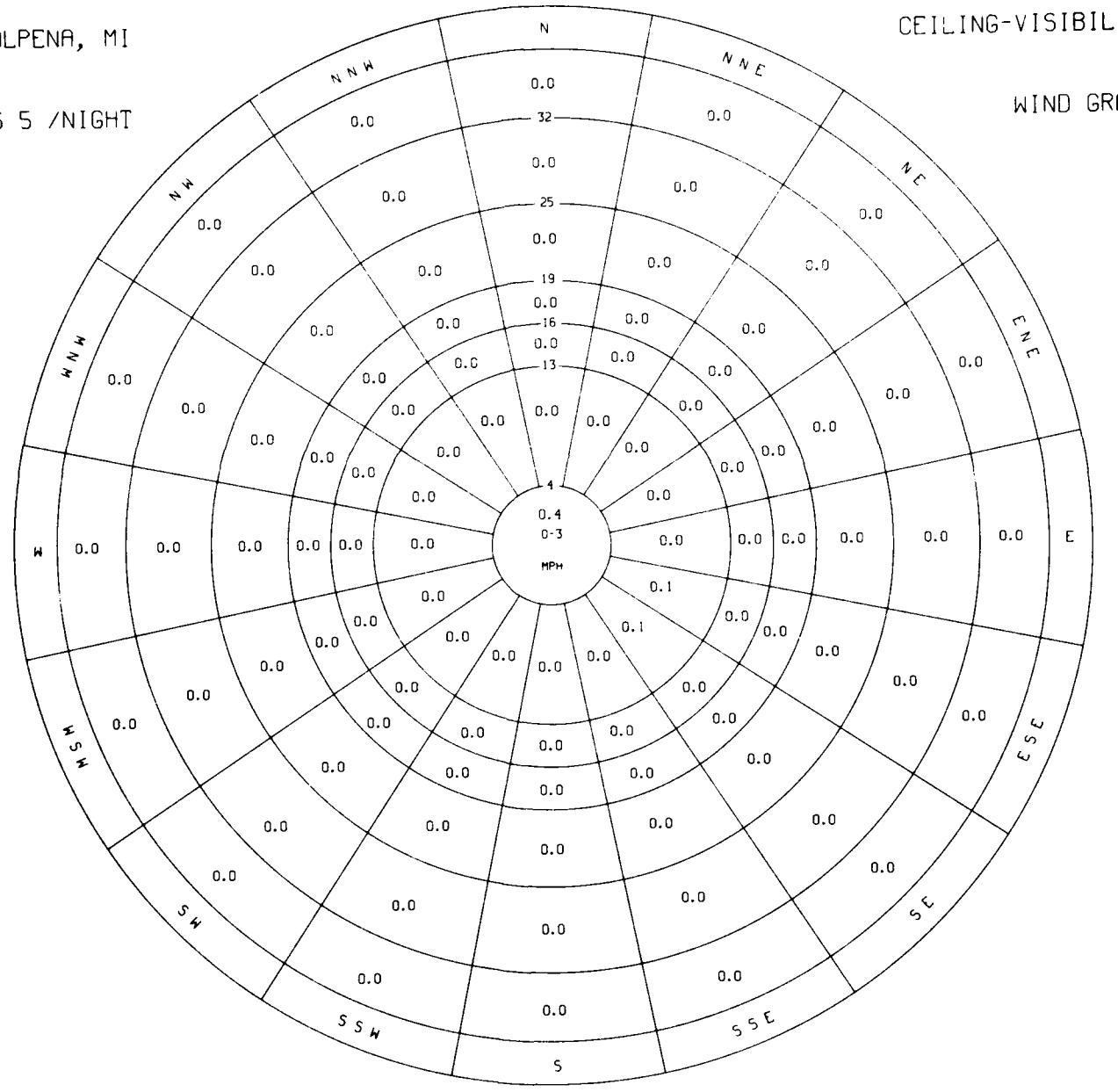
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.2	.0	.7	.0	.7	.0	1.4	.0	.0	.0	.0	.0	5.0	14.4
NNE	.0	1.4	.0	1.4	.0	.7	.0	.7	.0	.7	.0	1.4	.0	.0	.0	6.5	14.8
NE	.0	.7	.0	.7	.0	.0	.0	1.4	.0	.7	.0	.0	.0	.0	.0	3.6	12.0
ENE	.0	.0	.0	6.5	.0	2.2	.0	.7	.0	.7	.0	.0	.0	.0	.1	10.1	9.8
E	.0	.0	.0	7.2	.0	1.4	.0	.7	.0	.7	.0	.7	.0	.0	.1	10.8	11.5
ESE	.0	.7	.1	15.1	.0	2.2	.0	1.4	.0	.0	.0	.0	.0	.0	.1	19.4	9.6
SE	.0	1.4	.1	11.5	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.1	14.4	9.1
SSE	.0	.7	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	7.2
S	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.5
SSW	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	2.0
SW	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	3.0
WSW	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	1.7
W	.0	2.9	.0	1.4	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	6.5	7.6
WNW	.0	2.2	.0	.7	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	3.6	6.2
NW	.0	.7	.0	2.9	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.6
NNW	.0	.0	.0	1.4	.0	.0	.0	.7	.0	.7	.0	.0	.0	.0	.0	2.9	14.8
CALM	.0	3.6													.0	3.6	
TOTAL	.1	19.4	.4	54.7	.1	10.1	.1	8.6	.0	5.0	.0	2.2	.0	.0	.7	100	9.4

APN ALPENA, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 5 / NIGHT

STATION NUMBER: 94849

NO. OBS.: 193

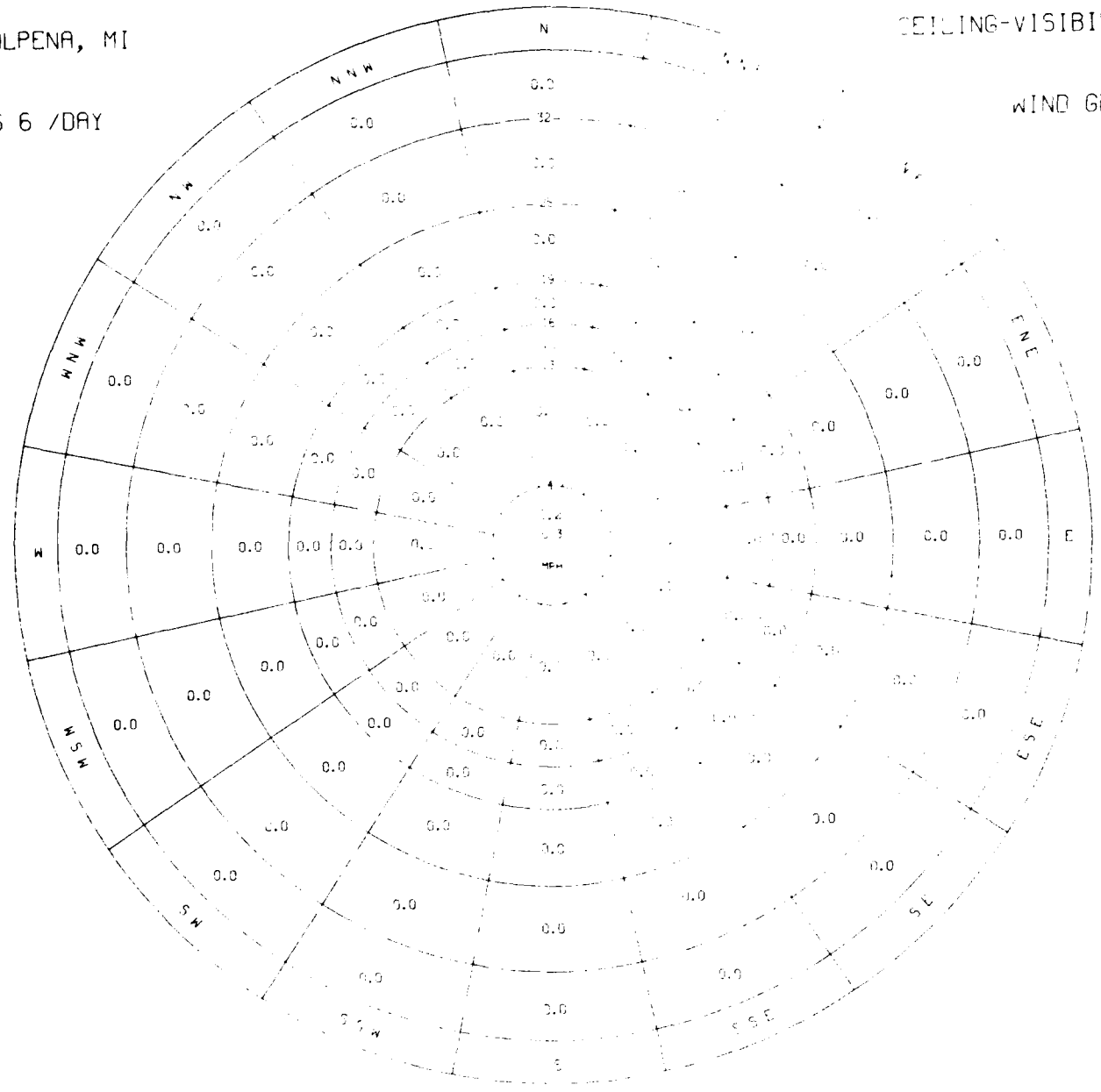
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	2.1	.0	1.0	.0	.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.1	5.2	10.3
NNE	.0	1.0	.0	1.6	.0	.5	.0	.0	.0	.0	.0	.5	.0	.5	.0	4.1	11.6
NE	.0	.0	.0	1.6	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	2.1	8.8
ENE	.0	.5	.0	1.6	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	3.1	11.5
E	.1	4.7	.0	2.1	.0	2.6	.0	.5	.0	.5	.0	.0	.0	.0	.1	10.4	8.3
ESE	.0	3.6	.1	10.4	.0	.5	.0	.0	.0	1.0	.0	.5	.0	.0	.2	16.1	8.1
SE	.0	3.6	.1	11.9	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	16.6	6.7
SSE	.0	1.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.7	5.0
S	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.6
SSW	.0	.5	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.8
SW	.0	2.6	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	3.3
WSW	.0	2.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	3.4
W	.0	2.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	3.8
WNW	.0	3.6	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0	.1	6.2	6.6
NW	.0	2.6	.0	2.1	.0	.0	.0	.5	.0	1.6	.0	.0	.0	.0	.1	6.7	8.7
NNW	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	11.0
CALM	.1	6.2													.1	6.2	
TOTAL	.4	39.9	.5	45.1	.1	5.2	.0	3.1	.1	4.7	.0	1.6	.0	.5	1.1	100	6.9

APN ALPENA, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 6 / DAY

STATION NUMBER: 94849

NO. OBS.: 116

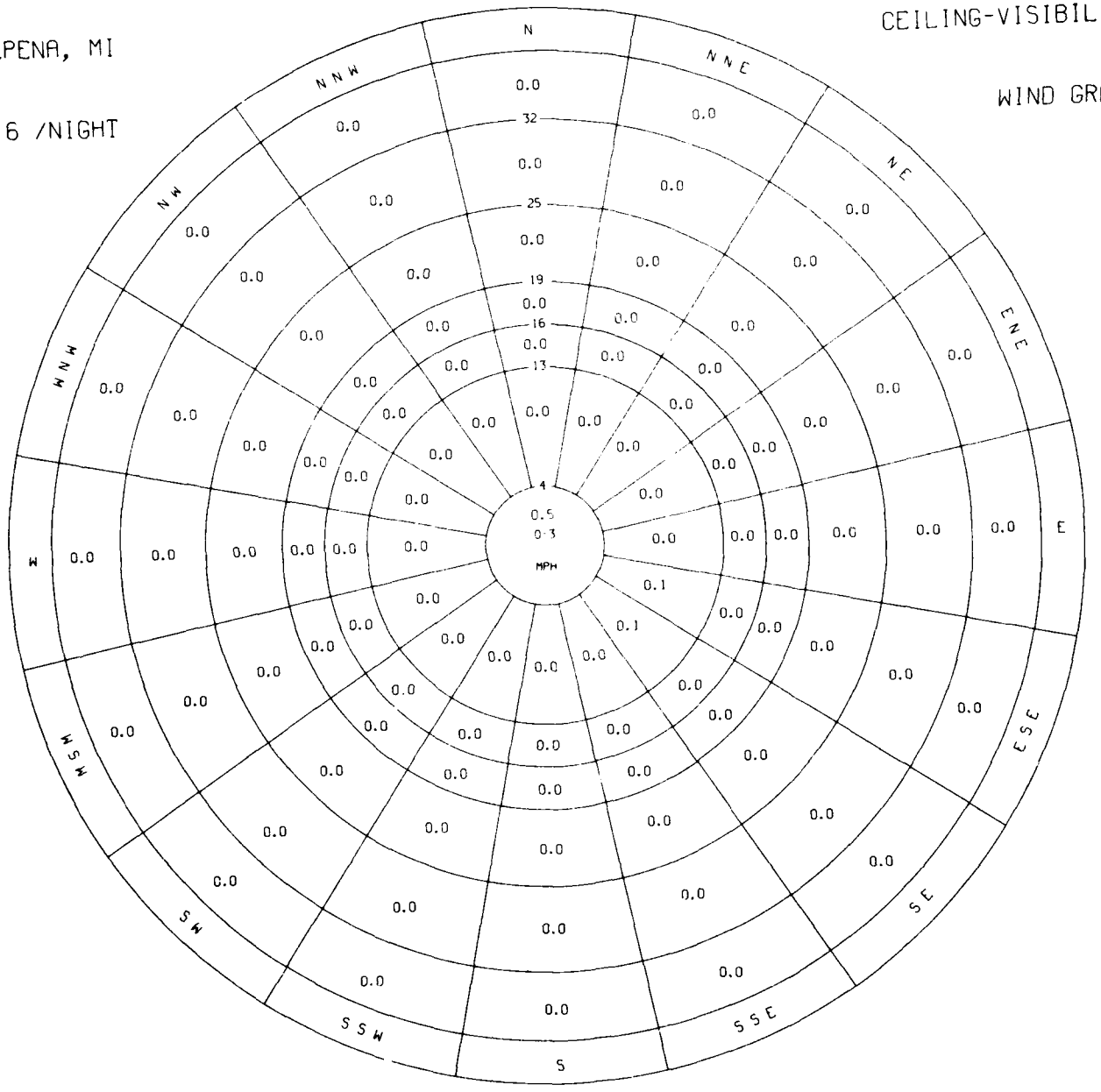
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.9	.0	.0	.0	.0	.0	.0	.0	.9	.0	.0	.0	.9	.0	2.6	18.3
NNE	.0	2.6	.0	1.7	.0	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	6.0	8.3
NE	.0	.0	.0	1.7	.0	.9	.0	.9	.0	1.7	.0	1.7	.0	.0	.0	6.9	18.2
ENE	.0	.9	.0	.0	.0	.9	.0	.9	.0	.0	.0	.9	.0	.0	.0	3.4	14.5
E	.0	2.6	.0	3.4	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	6.9	6.4
ESE	.0	1.7	.1	13.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	17.2	7.9
SE	.0	1.7	.0	7.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.3	7.6
SSE	.0	5.2	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.5	4.3
S	.0	4.3	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	5.2
SSW	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	6.5
SW	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.2
WSW	.0	2.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	3.5
W	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	1.7
WNW	.0	.0	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	1.7	13.5
NW	.0	.9	.0	.0	.0	.9	.0	.0	.0	2.6	.0	.0	.0	.0	.0	4.3	17.2
NNW	.0	.9	.0	2.6	.0	.0	.0	.0	.0	1.7	.0	.9	.0	.0	.0	6.0	14.0
CALM	.0	6.0													.0	6.0	
TOTAL	.2	34.5	.2	43.1	.0	6.0	.0	4.3	.0	6.9	.0	4.3	.0	.9	.6	100	8.4

APN ALPENA, MI

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: APN ALPENA, MI

PERIOD: 1966-1978

CLASS 6 / NIGHT

STATION NUMBER: 94849

NO. OBS.: 158

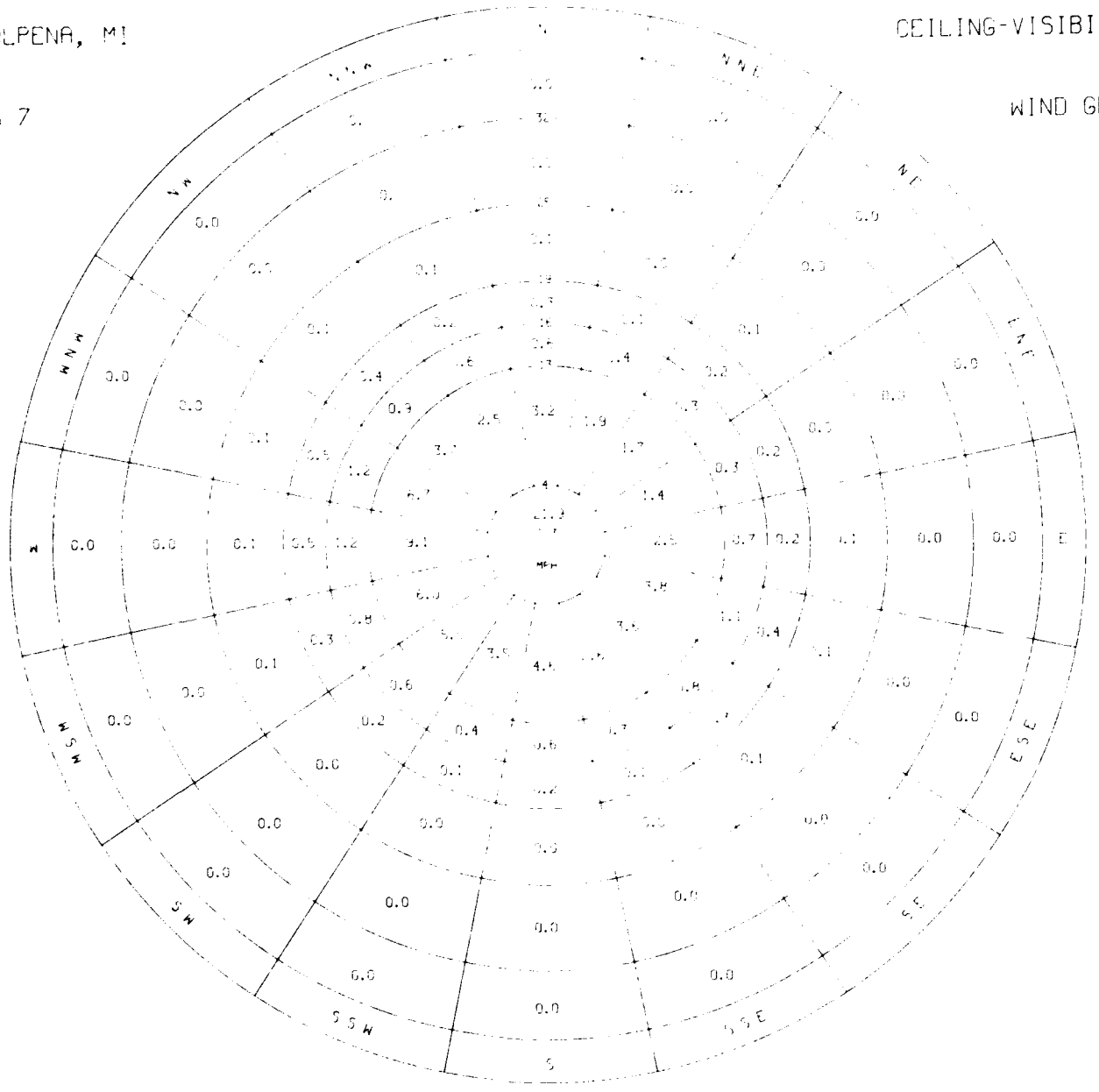
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.9	9.3
NNE	.0	1.3	.0	2.5	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	4.4	7.0
NE	.0	1.3	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.8
ENE	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	2.0
E	.0	1.9	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.3	5.3
ESE	.0	3.8	.1	10.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	14.6	6.2
SE	.1	6.3	.1	9.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	15.8	5.2
SSE	.1	7.6	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	12.7	3.8
S	.0	5.1	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.3	2.8
SSW	.0	3.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	2.1
SW	.0	4.4	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.3	3.2
WSW	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	1.7
W	.0	5.1	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.3	2.9
WNW	.0	5.1	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.1	6.3	4.4
NW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	3.8
NNW	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.3	15.0
CALM	.0	2.5													.0	2.5	
TOTAL	.5	56.3	.4	39.9	.0	1.3	.0	.6	.0	1.3	.0	.6	.0	.0	.9	100	4.6

APN ALPENA, MI

CEILING-VISIBILITY

CLASS 7

WIND GRAPH

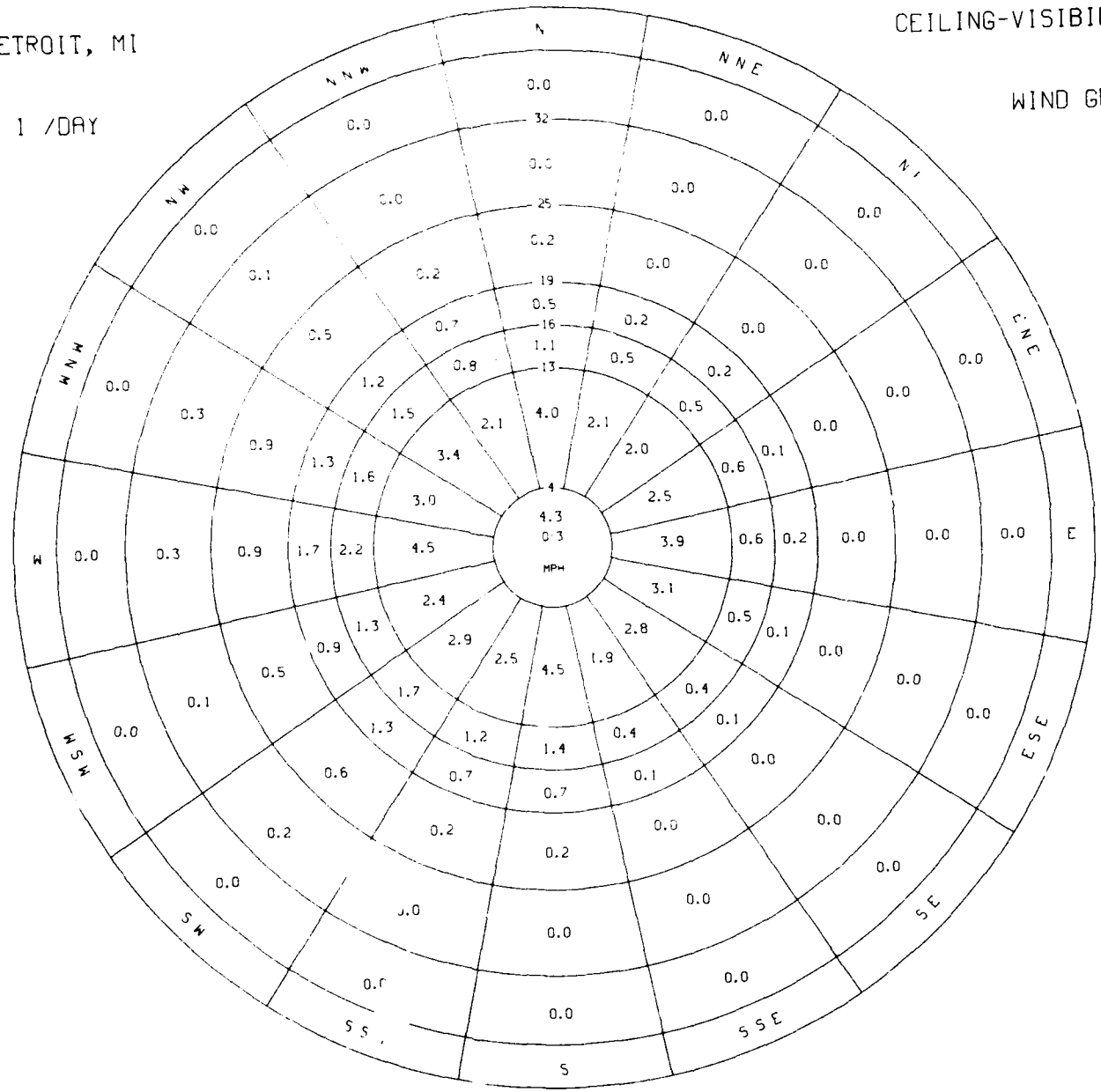


DET DETROIT, MI

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 14822

NO. OBS.: 41167

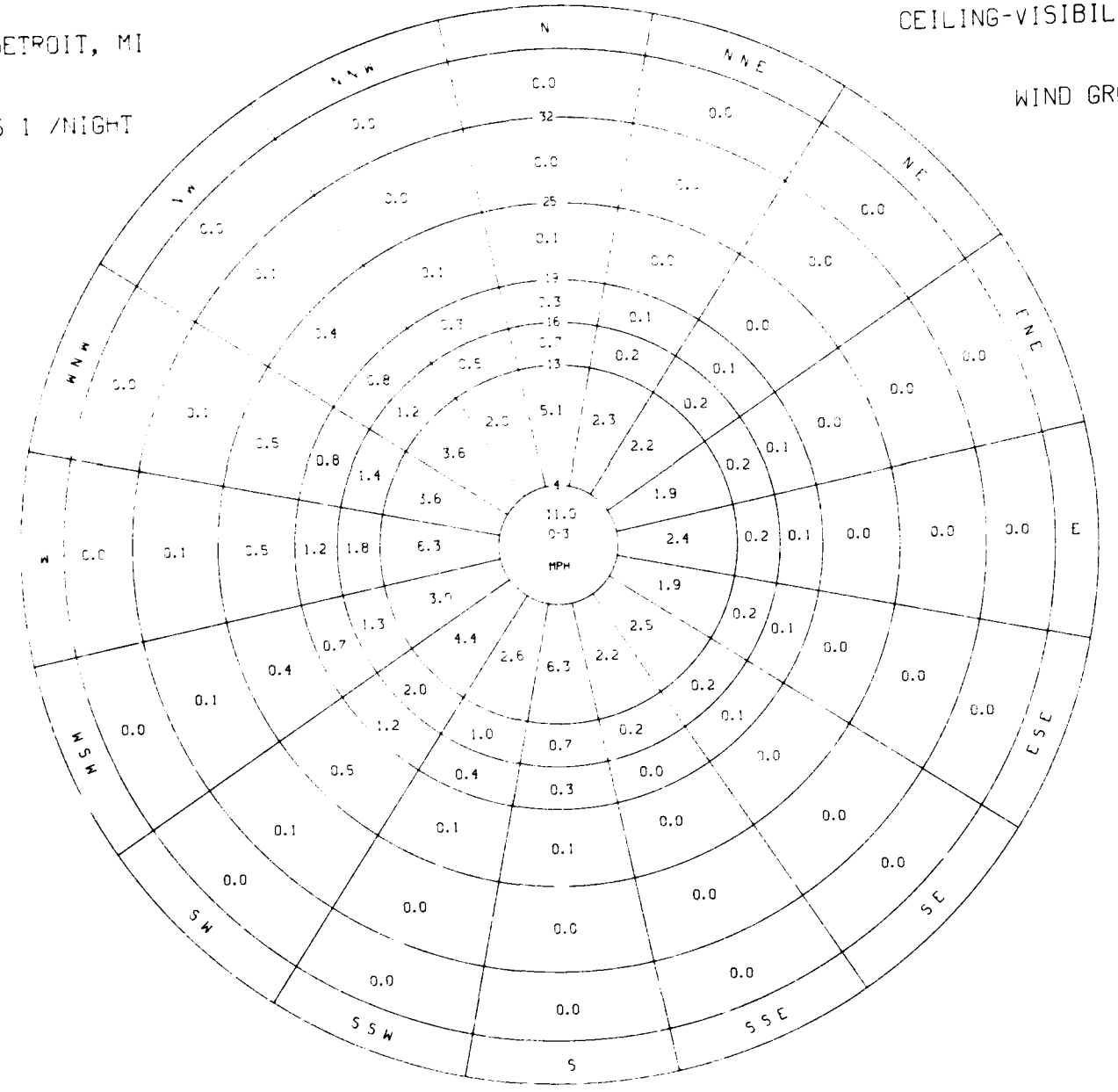
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B.	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.6	4.0	4.7	1.1	1.3	.5	.7	.2	.2	.0	.0	.0	.0	6.4	7.6	10.2
NNE	.2	.3	2.1	2.5	.5	.6	.2	.2	.0	.1	.0	.0	.0	.0	3.0	3.6	9.6
NE	.3	.3	2.0	2.4	.5	.6	.2	.2	.0	.0	.0	.0	.0	.0	2.9	3.5	9.5
ENE	.1	.2	2.5	2.9	.6	.7	.1	.2	.0	.0	.0	.0	.0	.0	3.4	4.0	9.8
E	.4	.5	3.9	4.7	.6	.7	.2	.2	.0	.0	.0	.0	.0	.0	5.1	6.1	9.1
ESE	.2	.2	3.1	3.8	.5	.6	.1	.1	.0	.0	.0	.0	.0	.0	3.9	4.7	9.2
SE	.3	.3	2.8	3.3	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	3.5	4.2	8.6
SSE	.1	.1	1.9	2.3	.4	.4	.1	.2	.0	.0	.0	.0	.0	.0	2.5	3.0	9.8
S	.2	.3	4.5	5.4	1.4	1.7	.7	.8	.2	.2	.0	.0	.0	.0	7.0	8.4	10.9
SSW	.1	.1	2.5	3.0	1.2	1.5	.7	.8	.2	.3	.0	.0	.0	.0	4.8	5.7	12.4
SW	.1	.1	2.9	3.5	1.7	2.0	1.3	1.6	.6	.8	.2	.2	.0	.1	6.9	8.3	13.6
WSW	.1	.1	2.4	2.9	1.3	1.6	.9	1.0	.5	.6	.1	.1	.0	.0	5.4	6.4	13.3
W	.2	.3	4.5	5.4	2.2	2.6	1.7	2.0	.9	1.1	.3	.3	.0	.1	9.8	11.7	13.2
WNW	.2	.2	3.0	3.5	1.6	1.9	1.3	1.6	.9	1.0	.3	.3	.0	.0	7.2	8.5	13.7
NW	.3	.3	3.4	4.0	1.5	1.8	1.2	1.4	.5	.7	.1	.1	.0	.0	7.0	8.4	12.4
NNW	.2	.2	2.1	2.5	.8	1.0	.7	.8	.2	.3	.0	.0	.0	.0	4.1	4.9	11.7
CALM	.9	1.0													.9	1.0	
TOTAL	4.3	5.1	47.7	56.9	16.3	19.4	9.9	11.9	4.5	5.3	1.0	1.2	.1	.2	83.8	100	11.4

DET DETROIT, MI

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 14822

NO. OBS.: 35216

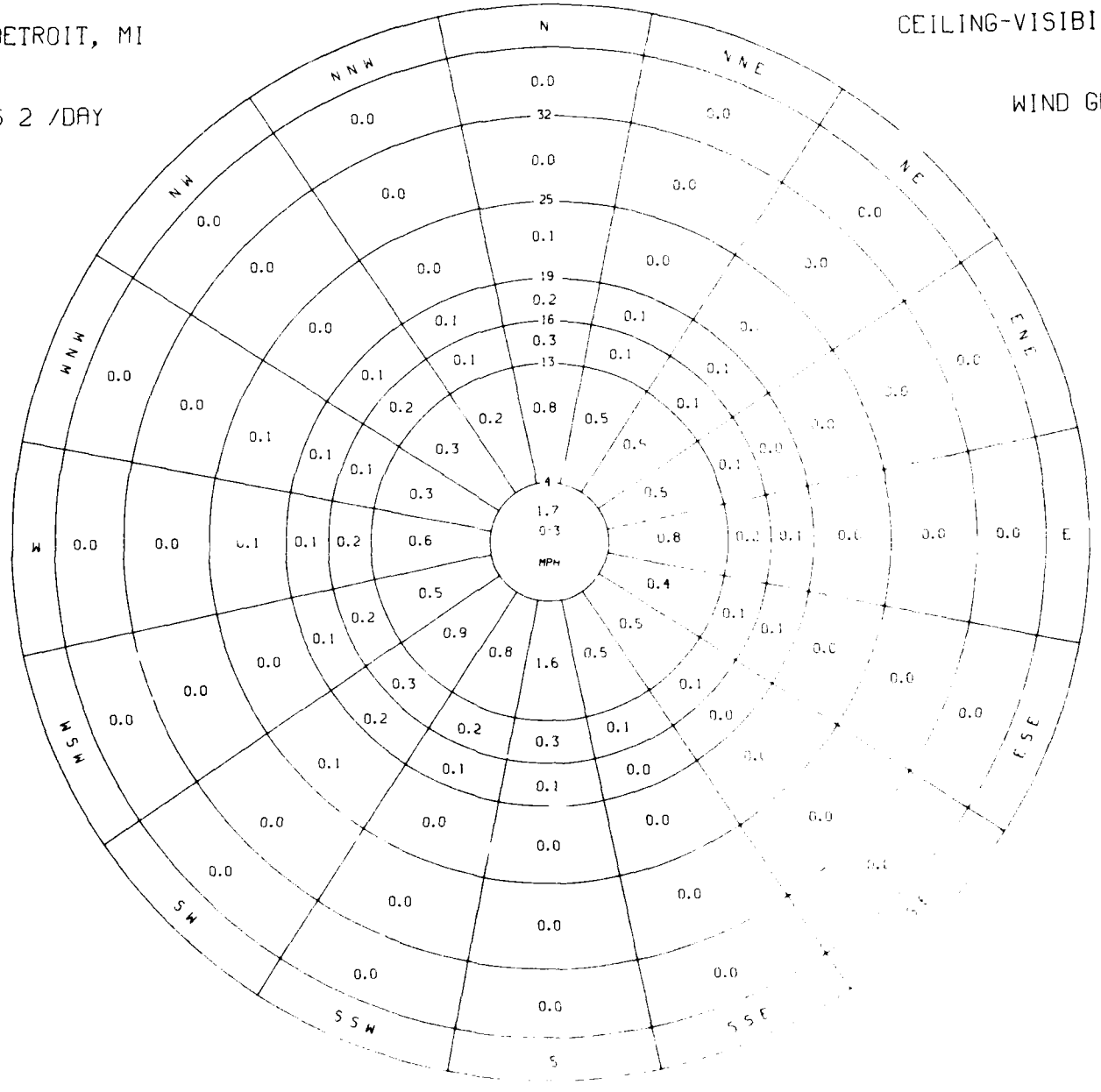
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	1.4	1.7	5.1	6.0	.7	.8	.3	.3	.1	.1	.0	.0	.0	.0	7.5	8.8	7.8
NNE	.5	.6	2.3	2.7	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.2	3.7	7.6
NE	.7	.8	2.2	2.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.2	3.7	7.3
ENE	.3	.4	1.9	2.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.5	2.9	8.0
E	.9	1.0	2.4	2.9	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.6	4.2	7.0
ESE	.3	.3	1.9	2.2	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.4	2.8	8.1
SE	.6	.7	2.5	3.0	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.4	4.0	7.4
SSE	.3	.3	2.2	2.6	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.7	3.2	7.6
S	.8	.9	6.3	7.4	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	8.2	9.7	8.4
SSW	.2	.2	2.6	3.1	1.0	1.1	.4	.5	.1	.2	.0	.0	.0	.0	4.3	5.1	10.8
SW	.3	.4	4.4	5.2	2.0	2.4	1.2	1.4	.5	.5	.1	.1	.0	.0	8.6	10.1	12.0
WSW	.2	.2	3.0	3.5	1.3	1.6	.7	.8	.4	.4	.1	.1	.0	.0	5.7	6.7	12.2
W	.5	.5	6.3	7.4	1.8	2.1	1.2	1.4	.5	.6	.1	.2	.0	.0	10.4	12.2	11.2
WNW	.3	.3	3.6	4.3	1.4	1.6	.8	1.0	.5	.6	.1	.1	.0	.0	6.7	7.9	11.8
NW	.6	.7	3.6	4.2	1.2	1.4	.8	.9	.4	.5	.1	.1	.0	.0	6.5	7.7	10.9
NNW	.3	.4	2.0	2.3	.5	.6	.3	.4	.1	.2	.0	.0	.0	.0	3.3	3.9	10.1
CALM	2.9	3.4													2.9	3.4	
TOTAL	11.0	12.9	52.4	61.6	11.8	13.9	6.5	7.6	2.7	3.2	.5	.6	.1	.1	85.0	100	9.4

DET DETROIT, MI

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14822

NO. OBS.: 7950

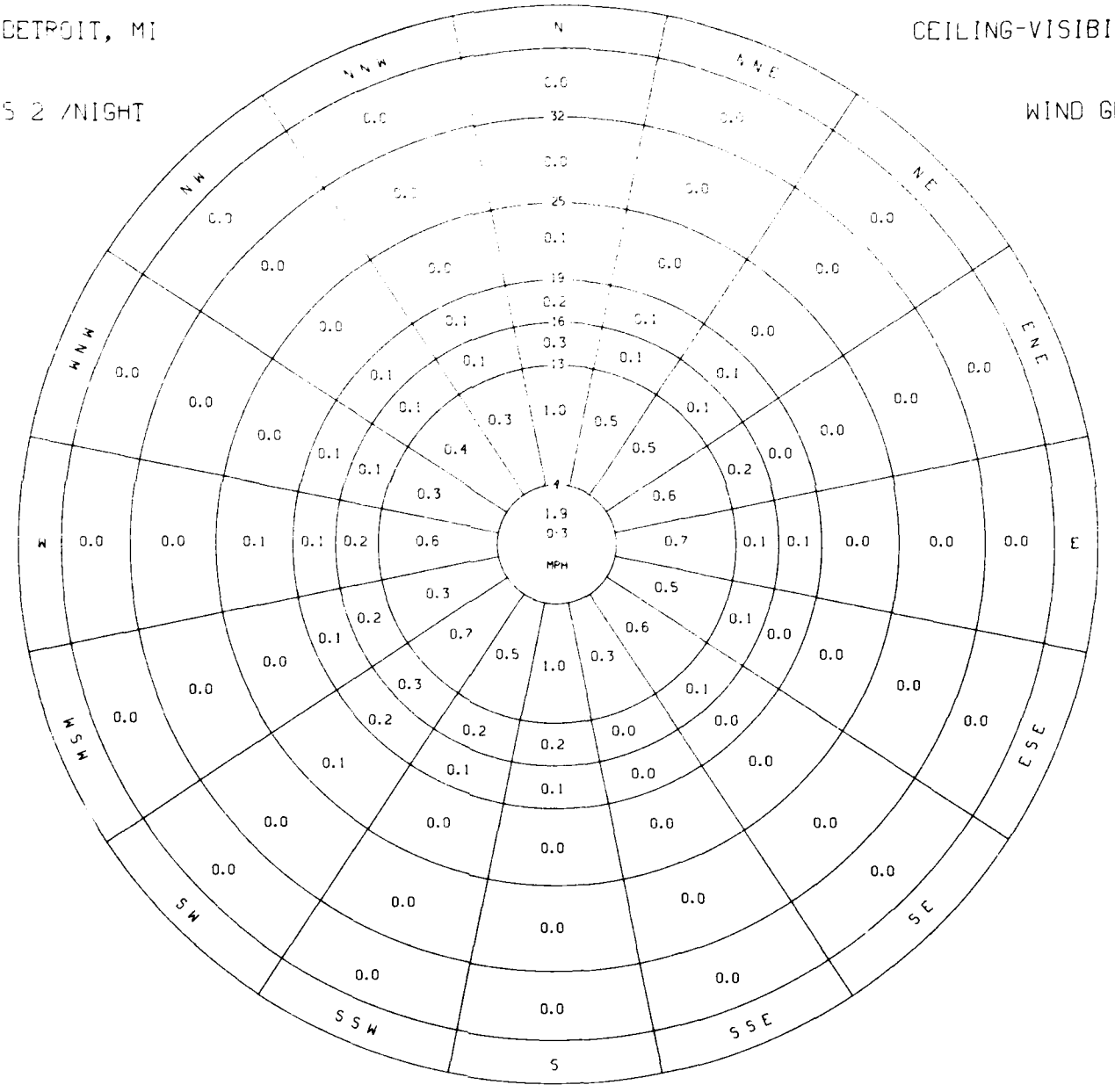
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.8	.8	4.7	.3	1.5	.2	1.1	.1	.5	.0	.1	.0	.0	1.4	8.7	10.5
NNE	.1	.5	.5	3.1	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.8	4.7	9.5
NE	.1	.6	.5	3.2	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.8	4.9	9.4
ENE	.1	.4	.5	2.8	.1	.9	.0	.3	.0	.1	.0	.0	.0	.0	.7	4.4	9.8
E	.1	.8	.8	4.8	.2	1.2	.1	.7	.0	.1	.0	.0	.0	.0	1.2	7.6	9.5
ESE	.1	.5	.4	2.7	.1	.8	.1	.3	.0	.1	.0	.0	.0	.0	.7	4.5	9.8
SE	.1	.7	.5	3.2	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.7	4.6	8.4
SSE	.0	.2	.5	2.9	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.6	3.8	9.1
S	.2	1.1	1.6	9.7	.3	1.6	.1	.6	.0	.2	.0	.0	.0	.0	2.2	13.3	9.1
SSW	.0	.2	.8	4.8	.2	1.2	.1	.6	.0	.2	.0	.0	.0	.0	1.1	7.0	10.5
SW	.1	.5	.9	5.7	.3	2.1	.2	1.2	.1	.5	.0	.1	.0	.0	1.6	10.0	11.4
WSW	.0	.2	.5	2.9	.2	1.1	.1	.8	.0	.2	.0	.1	.0	.0	.9	5.4	11.8
W	.1	.6	.6	3.7	.2	1.2	.1	.8	.1	.4	.0	.1	.0	.0	1.1	6.8	11.1
WNW	.0	.2	.3	1.9	.1	.9	.1	.4	.1	.4	.0	.1	.0	.0	.6	4.0	12.4
NW	.1	.4	.3	2.2	.2	1.1	.1	.5	.0	.2	.0	.1	.0	.0	.7	4.5	11.5
NNW	.0	.3	.2	1.5	.1	.7	.1	.7	.0	.2	.0	.1	.0	.0	.6	3.5	12.0
CALM	.4	2.3													.4	2.3	
TOTAL	1.7	10.3	9.7	60.0	2.7	16.5	1.5	9.2	.5	3.4	.1	.6	.0	.1	16.2	100	10.1

DET DETROIT, MI

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 14822

NO. OBS.: 6230

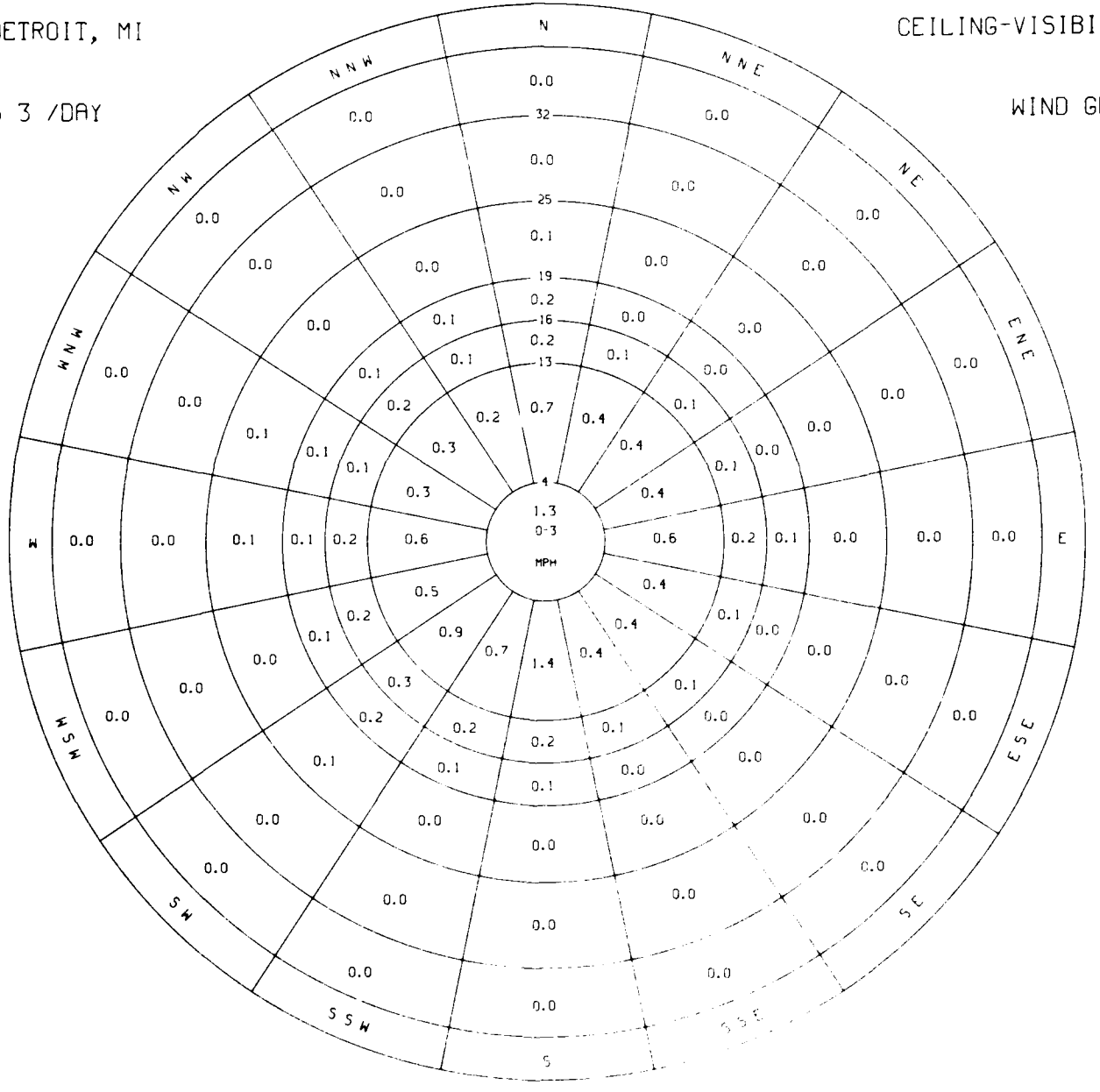
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	1.4	1.0	6.5	.3	1.9	.2	1.1	.1	.4	.0	.0	.0	.0	1.7	11.3	9.9
NNE	.1	.4	.5	3.6	.1	.8	.1	.7	.0	.1	.0	.0	.0	.0	.8	5.6	9.8
NE	.1	.8	.5	3.1	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.8	5.3	9.3
ENE	.1	.5	.6	3.7	.2	1.1	.0	.3	.0	.1	.0	.0	.0	.0	.9	5.7	9.6
E	.2	1.1	.7	5.0	.1	.9	.1	.7	.0	.0	.0	.0	.0	.0	1.1	7.6	9.0
ESE	.0	.3	.5	3.5	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.7	4.8	9.3
SE	.1	.8	.6	3.7	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.8	5.3	8.2
SSE	.0	.3	.3	2.3	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.5	3.0	8.3
S	.2	1.5	1.0	6.8	.2	1.1	.1	.5	.0	.2	.0	.0	.0	.0	1.5	10.1	8.5
SSW	.0	.2	.5	3.3	.2	1.2	.1	.7	.0	.2	.0	.0	.0	.0	.8	5.5	10.8
SW	.1	.8	.7	4.6	.3	2.1	.2	1.3	.1	.4	.0	.1	.0	.0	1.4	9.2	11.3
WSW	.0	.2	.3	2.2	.2	1.3	.1	.5	.0	.2	.0	.0	.0	.0	.7	4.5	11.7
W	.1	.6	.6	4.0	.2	1.2	.1	.6	.1	.4	.0	.1	.0	.0	1.0	6.9	10.8
WNW	.0	.2	.3	2.3	.1	.7	.1	.6	.0	.2	.0	.0	.0	.0	.6	4.0	11.7
NW	.1	.7	.4	2.4	.1	.9	.1	.6	.0	.2	.0	.1	.0	.0	.7	5.0	10.5
NNW	.0	.3	.3	1.8	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.5	3.4	10.8
CALM	.4	2.6													.4	2.6	
TOTAL	1.9	12.8	8.8	58.8	2.4	16.1	1.4	9.1	.4	2.7	.1	.4	.0	.0	15.0	100	9.6

DET DETROIT, MI

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 14822

NO. OBS.: 6993

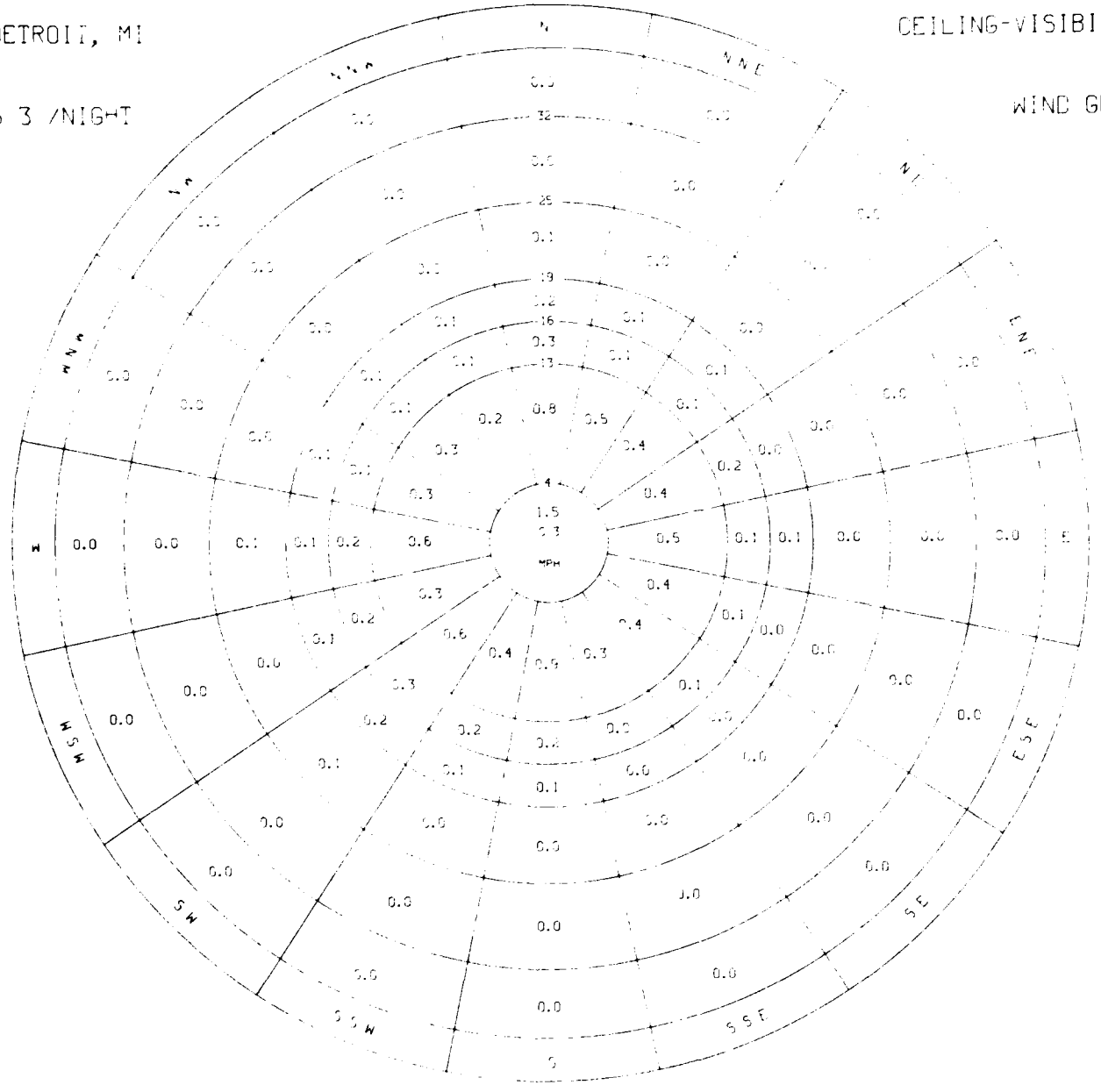
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.7	.7	4.6	.2	1.7	.2	1.1	.1	.5	.0	.1	.0	.0	1.2	8.7	11.2
NNE	.1	.5	.4	3.0	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.4	9.4
NE	.1	.4	.4	2.9	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.5	9.8
ENE	.0	.3	.4	2.5	.1	.9	.0	.3	.0	.0	.0	.0	.0	.0	.6	4.1	10.0
E	.1	.7	.6	4.2	.2	1.1	.1	.7	.0	.1	.0	.0	.0	.0	1.0	6.8	9.9
ESE	.1	.4	.4	2.6	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.1	9.9
SE	.1	.6	.4	3.0	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.6	4.3	8.6
SSE	.0	.2	.4	2.9	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.8	9.1
S	.2	1.1	1.4	9.6	.2	1.7	.1	.7	.0	.2	.0	.0	.0	.0	1.9	13.4	9.2
SSW	.0	.2	.7	5.0	.2	1.3	.1	.7	.0	.2	.0	.0	.0	.0	1.0	7.3	10.5
SW	.1	.4	.9	6.1	.3	2.4	.2	1.3	.1	.6	.0	.1	.0	.0	1.5	10.8	11.5
WSW	.0	.2	.5	3.2	.2	1.3	.1	.9	.0	.3	.0	.1	.0	.0	.8	5.9	11.8
W	.1	.5	.6	3.9	.2	1.3	.1	.8	.1	.4	.0	.1	.0	.0	1.0	7.2	11.3
WNW	.0	.2	.3	2.1	.1	1.0	.1	.5	.1	.4	.0	.1	.0	.0	.6	4.2	12.3
NW	.1	.4	.3	2.3	.2	1.1	.1	.6	.0	.2	.0	.1	.0	.0	.7	4.7	11.5
NNW	.0	.3	.2	1.7	.1	.7	.1	.7	.0	.2	.0	.1	.0	.0	.5	3.7	12.0
CALM	.3	2.1													.3	2.1	
TOTAL	1.3	9.2	8.5	59.7	2.5	17.4	1.4	9.6	.5	3.4	.1	.6	.0	.1	14.2	100	10.3

DET DETROIT, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14822

NO. OBS.: 5355

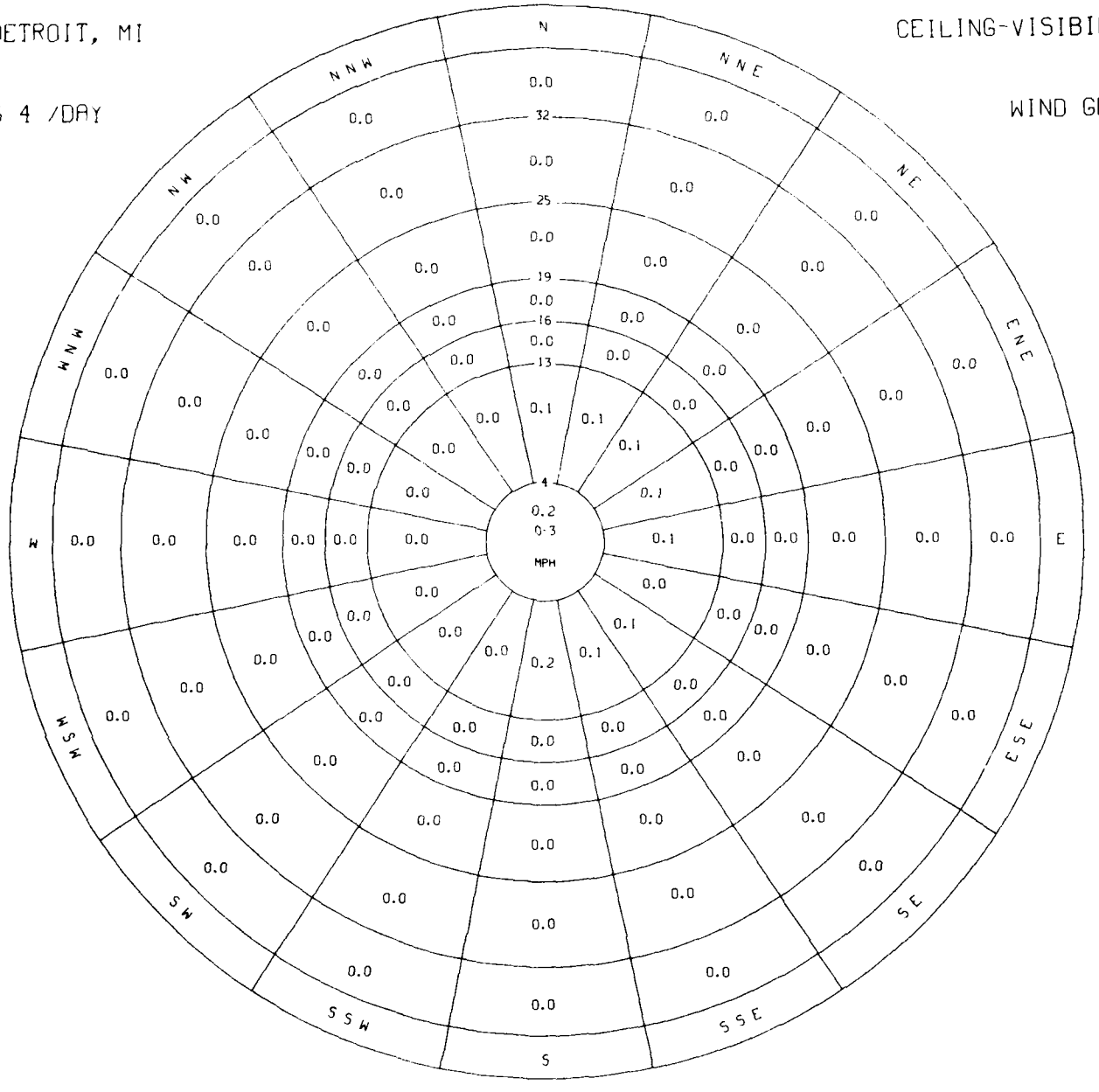
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	1.3	.8	6.5	.3	2.1	.2	1.3	.1	.5	.0	.0	.0	.0	1.5	11.7	10.2
NNE	.0	.3	.5	3.6	.1	.7	.1	.6	.0	.1	.0	.0	.0	.0	.7	5.4	9.9
NE	.1	.8	.4	3.0	.1	.9	.1	.6	.0	.1	.0	.0	.0	.0	.7	5.2	9.6
ENE	.1	.5	.4	3.4	.2	1.3	.0	.3	.0	.1	.0	.0	.0	.0	.7	5.5	9.9
E	.1	.9	.5	4.1	.1	.8	.1	.7	.0	.0	.0	.0	.0	.0	.9	6.6	9.4
ESE	.0	.2	.4	2.7	.1	.7	.0	.3	.0	.0	.0	.0	.0	.0	.5	3.9	9.6
SE	.1	.8	.4	3.3	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.6	4.9	8.2
SSE	.0	.3	.3	2.0	.0	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.7	8.3
S	.2	1.5	.7	6.7	.2	1.2	.1	.5	.0	.2	.0	.0	.0	.0	1.3	10.1	8.7
SSW	.0	.2	.4	3.2	.2	1.3	.1	.7	.0	.2	.0	.0	.0	.0	.7	5.7	11.2
SW	.1	.8	.6	4.9	.3	2.3	.2	1.5	.1	.4	.0	.1	.0	.0	1.3	10.1	11.4
WSW	.0	.2	.3	2.5	.2	1.5	.1	.6	.0	.3	.0	.0	.0	.0	.7	5.1	11.7
W	.1	.6	.6	4.4	.2	1.4	.1	.7	.1	.4	.0	.1	.0	.0	1.0	7.6	11.0
WNW	.0	.2	.3	2.4	.1	.8	.1	.7	.0	.2	.0	.1	.0	.0	.6	4.4	11.8
NW	.1	.7	.3	2.5	.1	1.0	.1	.7	.0	.2	.0	.1	.0	.0	.7	5.2	10.8
NNW	.0	.3	.2	1.8	.1	.7	.1	.5	.0	.2	.0	.0	.0	.0	.5	3.5	11.0
CALM	.3	2.2													.3	2.2	
TOTAL	1.5	11.9	7.4	57.2	2.3	17.5	1.3	9.9	.4	3.1	.1	.4	.0	.0	12.9	100	10.0

DET DETROIT, MI

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14822

NO. OBS.: 719

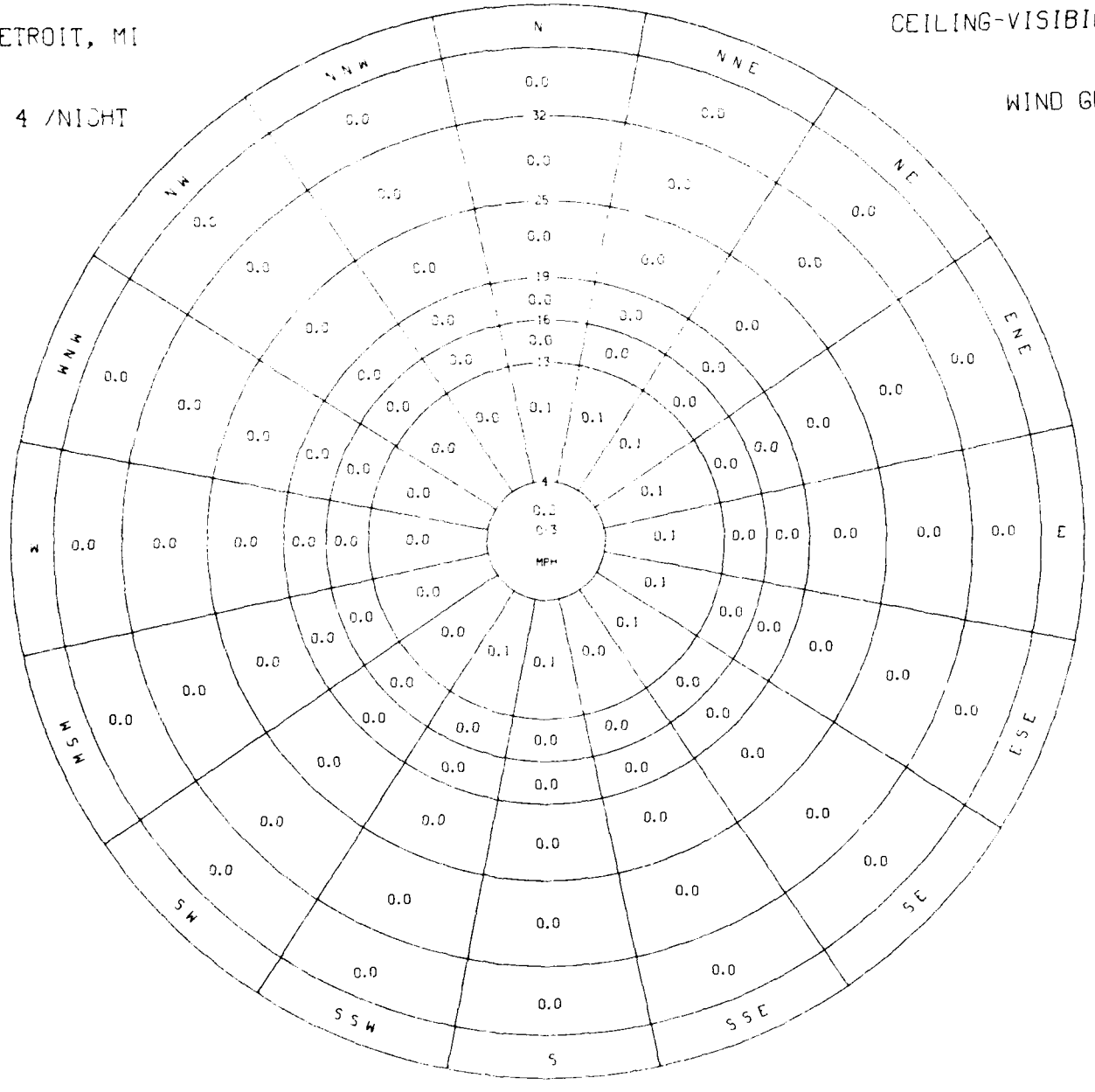
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.3	.1	5.0	.0	.8	.0	1.0	.0	.0	.0	.3	.0	.0	.1	8.3	9.5
NNE	.0	.6	.1	4.5	.0	.8	.0	.7	.0	.3	.0	.0	.0	.0	.1	6.8	10.0
NE	.0	1.3	.1	5.0	.0	.4	.0	.6	.0	.1	.0	.0	.0	.0	.1	7.4	8.3
ENE	.0	.6	.1	5.4	.0	.8	.0	.3	.0	.4	.0	.0	.0	.0	.1	7.5	9.9
E	.0	1.7	.1	8.8	.0	1.5	.0	.7	.0	.0	.0	.0	.0	.0	.2	12.7	8.5
ESE	.0	1.0	.0	3.2	.0	1.7	.0	.4	.0	.1	.0	.1	.0	.0	.1	6.5	10.3
SE	.0	1.1	.1	4.7	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.8	8.4
SSE	.0	.6	.1	3.5	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	4.9	8.9
S	.0	1.1	.2	10.7	.0	1.1	.0	.3	.0	.0	.0	.0	.0	.0	.2	13.2	8.5
SSW	.0	.4	.0	3.2	.0	1.0	.0	.3	.0	.1	.0	.0	.0	.1	.1	5.1	10.9
SW	.0	.8	.0	2.4	.0	.3	.0	.3	.0	.1	.0	.1	.0	.0	.1	4.0	9.1
WSW	.0	.1	.0	.8	.0	.3	.0	.3	.0	.1	.0	.0	.0	.1	.0	1.8	12.6
W	.0	1.1	.0	1.5	.0	.3	.0	.7	.0	.3	.0	.0	.0	.0	.1	3.9	9.3
WNW	.0	.3	.0	.8	.0	.0	.0	.1	.0	.7	.0	.1	.0	.1	.0	2.2	15.0
NW	.0	.7	.0	1.4	.0	.8	.0	.4	.0	.3	.0	.3	.0	.0	.1	3.9	11.8
NNW	.0	.1	.0	.3	.0	.3	.0	.4	.0	.6	.0	.0	.0	.0	.0	1.7	15.2
CALM	.0	3.2													.0	3.2	
TOTAL	.2	15.9	.9	61.2	.2	11.7	.1	6.7	.0	3.2	.0	1.0	.0	.4	1.5	100	9.3

DET DETROIT, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14822

NO. OBS.: 616

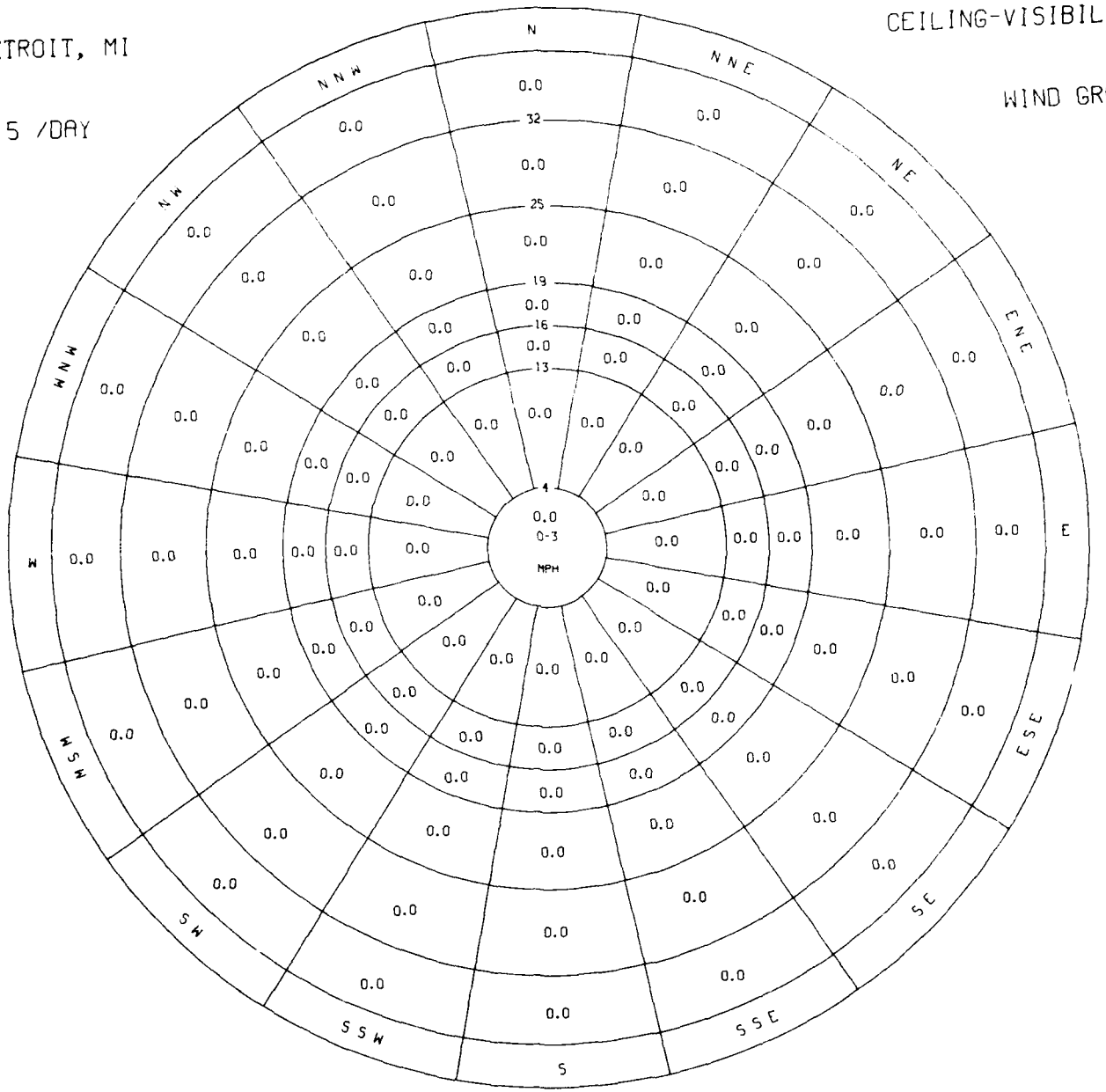
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.1	.1	6.3	.0	.6	.0	.5	.0	.2	.0	.0	.0	.0	.1	8.8	8.7
NNE	.0	.6	.1	3.6	.0	1.3	.0	1.1	.0	.2	.0	.0	.0	.0	.1	6.8	10.1
NE	.0	1.3	.1	4.7	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.1	6.7	7.4
ENE	.0	.3	.1	6.5	.0	.6	.0	.2	.0	.2	.0	.0	.0	.0	.1	7.8	8.6
E	.0	1.8	.1	9.6	.0	1.8	.0	.5	.0	.0	.0	.0	.0	.0	.2	13.6	8.4
ESE	.0	.6	.1	7.0	.0	1.6	.0	.0	.0	.2	.0	.0	.0	.0	.1	9.4	8.9
SE	.0	1.1	.1	5.0	.0	.8	.0	.5	.0	.0	.0	.0	.0	.0	.1	7.5	8.9
SSE	.0	.3	.0	3.2	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	4.5	9.1
S	.0	1.8	.1	9.1	.0	.6	.0	.5	.0	.0	.0	.2	.0	.0	.2	12.2	7.8
SSW	.0	.0	.1	4.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.2	7.6
SW	.0	.3	.0	2.1	.0	.8	.0	.2	.0	.0	.0	.0	.0	.0	.1	3.4	9.6
WSW	.0	.2	.0	.8	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	8.6
W	.0	.6	.0	1.6	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.4	7.7
WNW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	1.6	9.7
NW	.0	1.0	.0	1.8	.0	.5	.0	.3	.0	.2	.0	.0	.0	.0	.1	3.7	8.5
NNW	.0	.5	.0	1.9	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	8.9
CALM	.0	3.1													.0	3.1	
TOTAL	.2	14.8	1.0	68.8	.2	10.7	.1	4.5	.0	.8	.0	.2	.0	.2	1.5	100	8.3

DET DETROIT, MI

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14822

NO. OBS.: 126

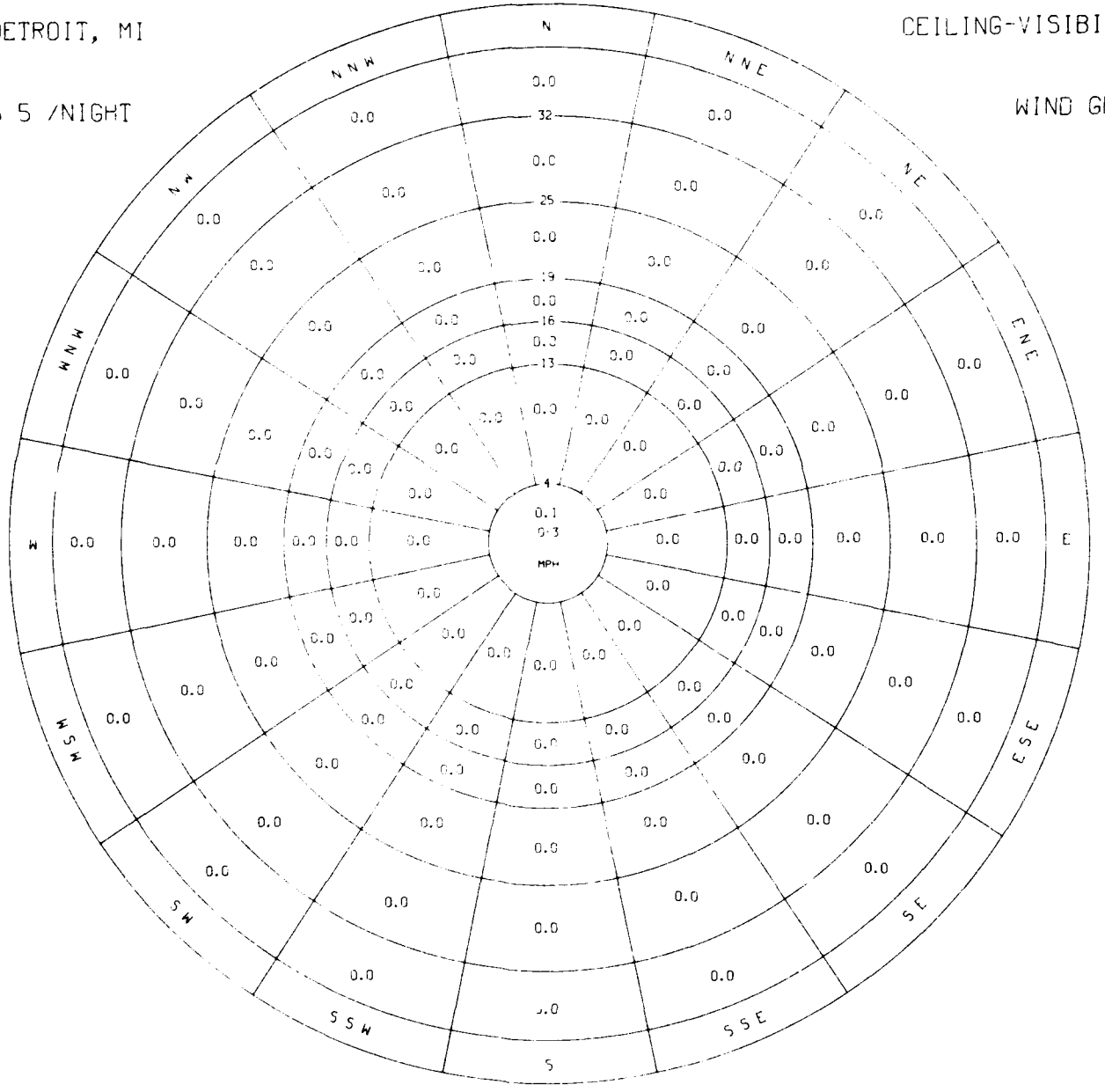
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.6	.0	11.1	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	14.3	7.2
NNE	.0	.0	.0	3.2	.0	.8	.0	.8	.0	1.6	.0	.0	.0	.0	.0	6.3	13.4
NE	.0	4.8	.0	7.1	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	14.3	7.7
ENE	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	9.0
E	.0	2.4	.0	12.7	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	15.9	7.4
ESE	.0	.8	.0	6.3	.0	2.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	10.3	9.4
SE	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	9.7
SSE	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	8.5
S	.0	.0	.0	7.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	8.1
SSW	.0	.0	.0	4.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.C	.0	4.8	9.2
SW	.0	.8	.0	2.4	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	10.8
WSW	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	3.0
W	.0	1.6	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	6.6
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	21.0
NW	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	1.6	19.5
NNW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.6	15.5
CALM	.0	4.8													.0	4.8	
TOTAL	.0	17.5	.2	65.9	.0	7.1	.0	4.8	.0	4.0	.0	.8	.0	.0	.3	100	8.4

DET DETROIT, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14822

NO. OBS.: 134

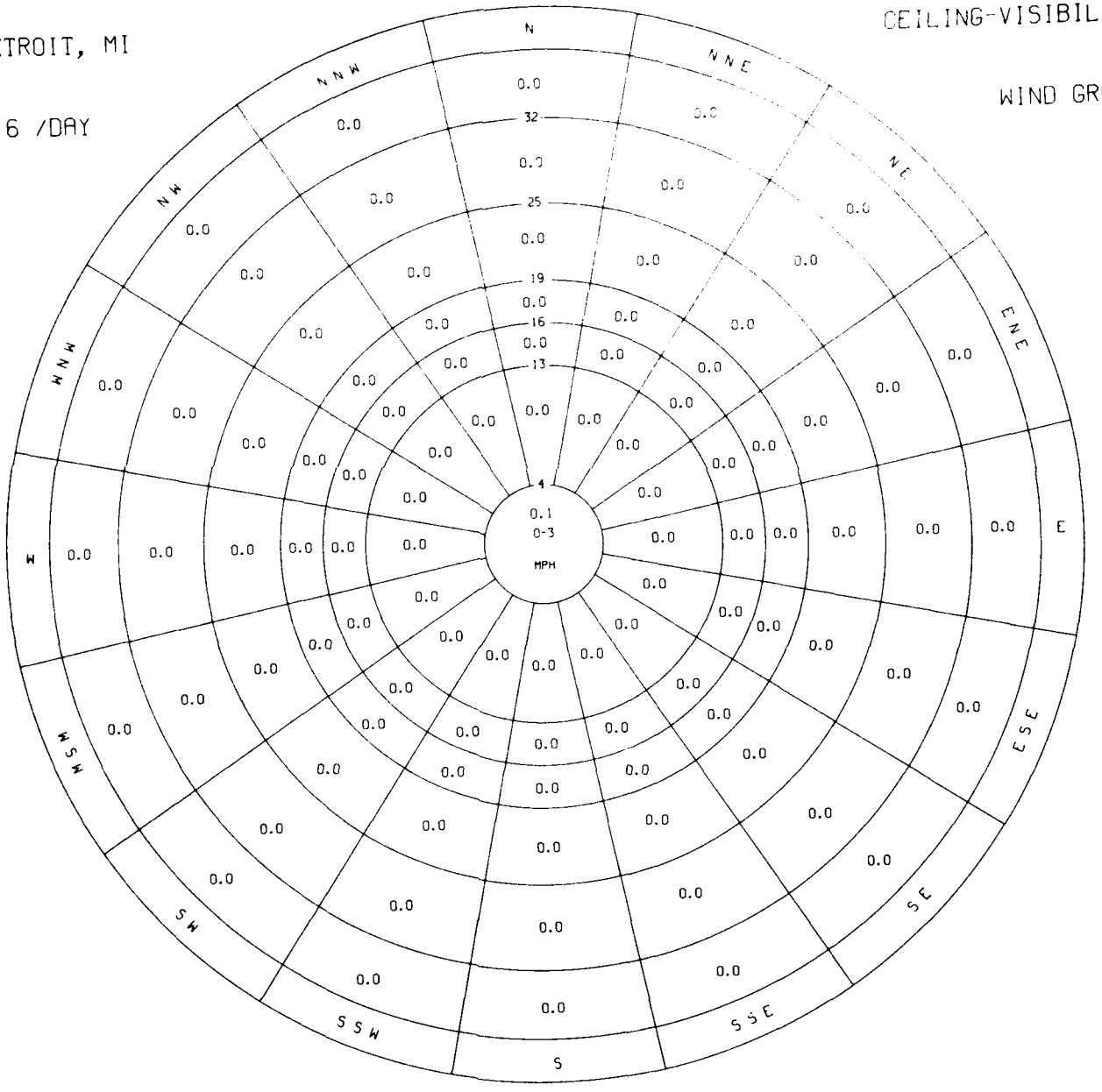
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	3.0	.0	5.2	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	6.1
NNE	.0	1.5	.0	2.2	.0	1.5	.0	.0	.0	.7	.0	.0	.0	.0	.0	6.0	8.9
NE	.0	.7	.0	4.5	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	6.0	7.4
ENE	.0	2.2	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.7	6.5
E	.0	.7	.0	13.4	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.0	.1	15.7	8.2
ESE	.0	.7	.0	11.9	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	13.4	8.4
SE	.0	.7	.0	7.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	6.9
SSE	.0	.7	.0	6.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	6.9
S	.0	1.5	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.7
SSW	.0	.7	.0	3.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	4.5	8.8
SW	.0	.7	.0	5.2	.0	.7	.0	.7	.0	.0	.0	.0	.0	.0	.0	7.5	8.8
WSW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	8.0
W	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	6.0
WNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NW	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.7
NNW	.0	.0	.0	1.5	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	2.2	13.7
CALM	.0	3.7													.0	3.7	
TOTAL	.1	17.9	.2	73.1	.0	3.0	.0	4.5	.0	1.5	.0	.0	.0	.0	.3	100	7.4

DET DETROIT, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 14822

NO. OBS.: 112

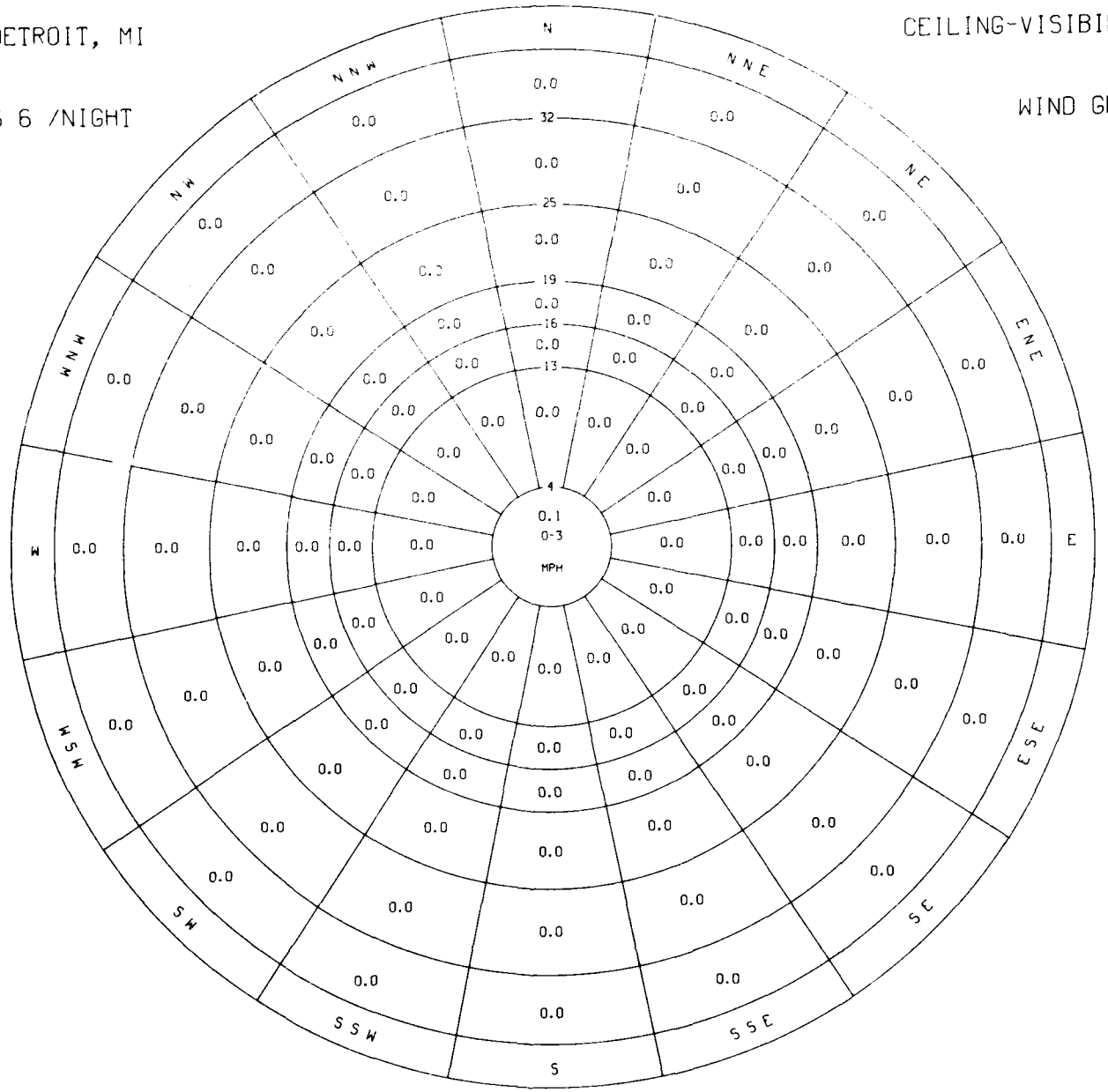
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	5.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	3.4
NNE	.0	.9	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	4.7
NE	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.7
ENE	.0	2.7	.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	5.1
E	.0	1.8	.0	8.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.7	7.7
ESE	.0	1.8	.0	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.9	6.4
SE	.0	4.5	.0	5.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.8	4.8
SSE	.0	.9	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	7.0
S	.0	3.6	.0	11.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	15.2	6.3
SSW	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	6.3
SW	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	3.5
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	1.8	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	9.7
WNW	.0	.9	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	5.5
NW	.0	2.7	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	5.0
NNW	.0	2.7	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	4.0
CALM	.0	7.1													.0	7.1	
TOTAL	.1	35.7	.1	62.5	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.2	100	5.4

DET DETROIT, MI

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DET DETROIT, MI

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14822

NO. OBS.: 125

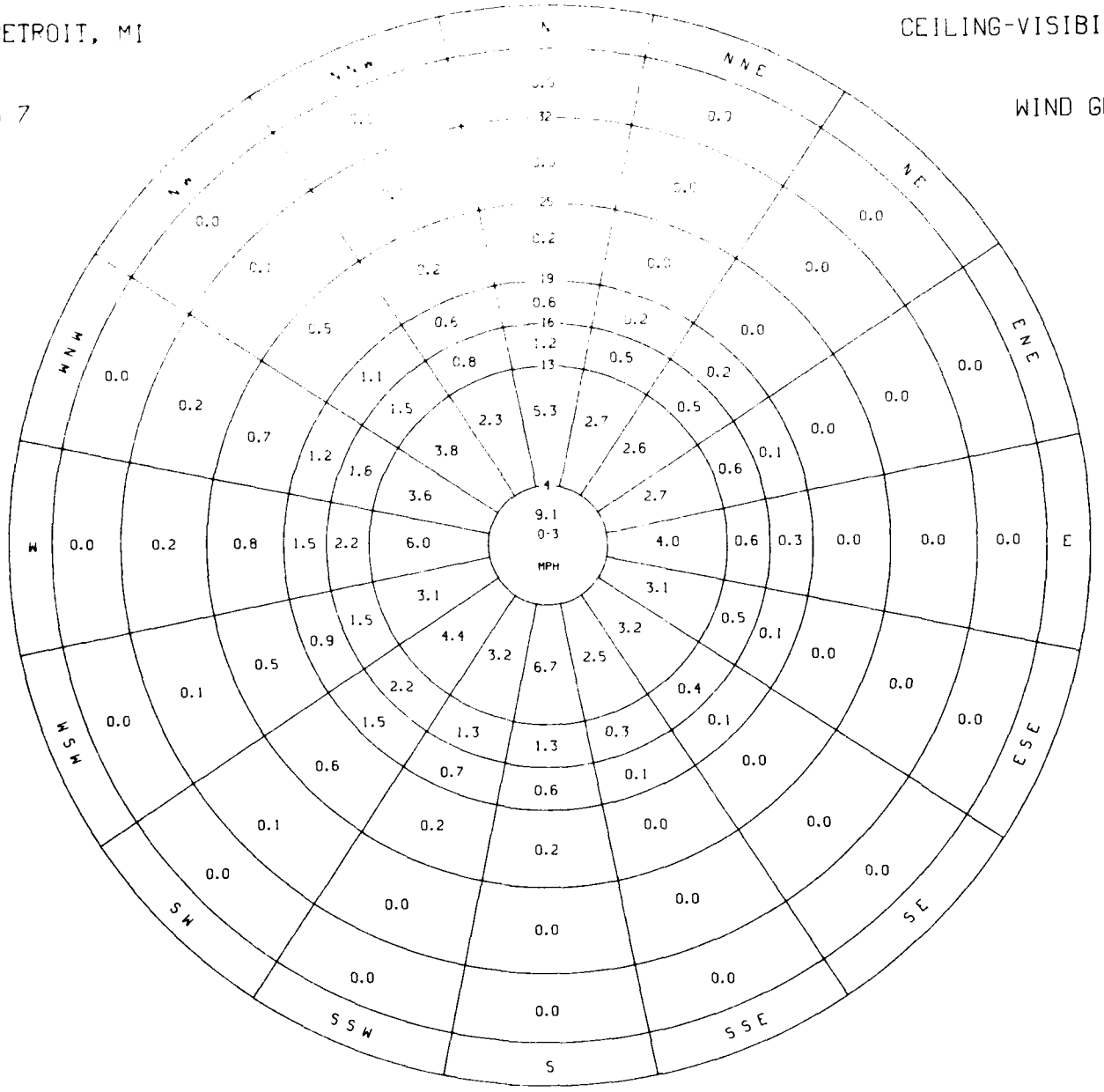
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	3.2	.0	9.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.8	5.2
N N E	.0	3.2	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	5.0
N E	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	7.7
E N E	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.0
E	.0	4.8	.0	8.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	13.6	5.0
E S E	.0	.8	.0	11.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0	6.9
S E	.0	.0	.0	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	6.9
S S E	.0	.0	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.7
S	.0	2.4	.0	3.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	6.8
S S W	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	4.7
S W	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	5.3
W S W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	2.4	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	3.2
W N W	.0	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	1.6	10.5
N W	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	6.5
N N W	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	5.0
C A L M	.0	15.2													.0	15.2	
T O T A L	.1	36.8	.2	61.6	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.3	100	5.0

DET DETROIT, MI

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

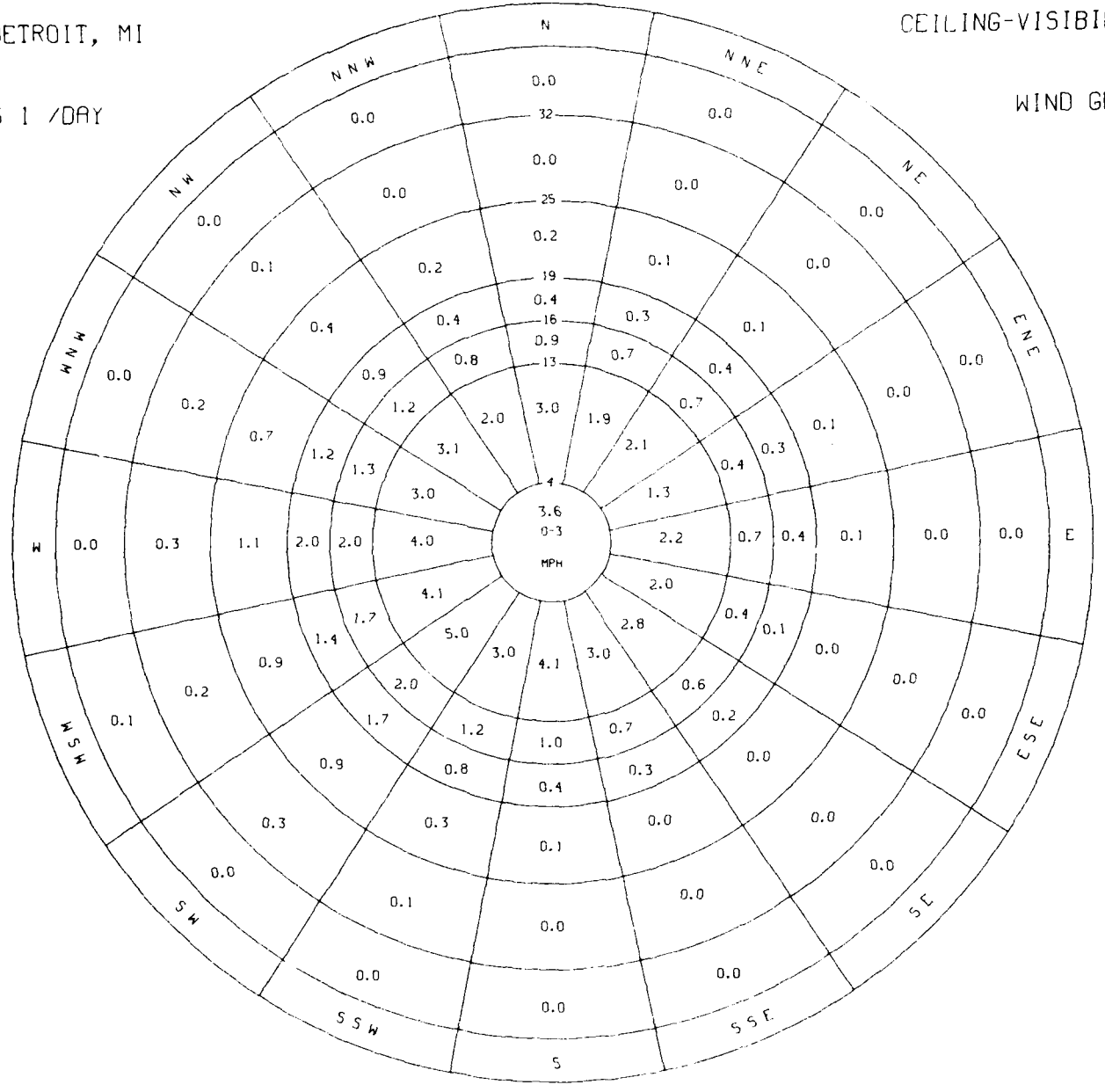


DTW DETROIT, MI

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 1 / DAY

STATION NUMBER: 94847

NO. OBS.: 26714

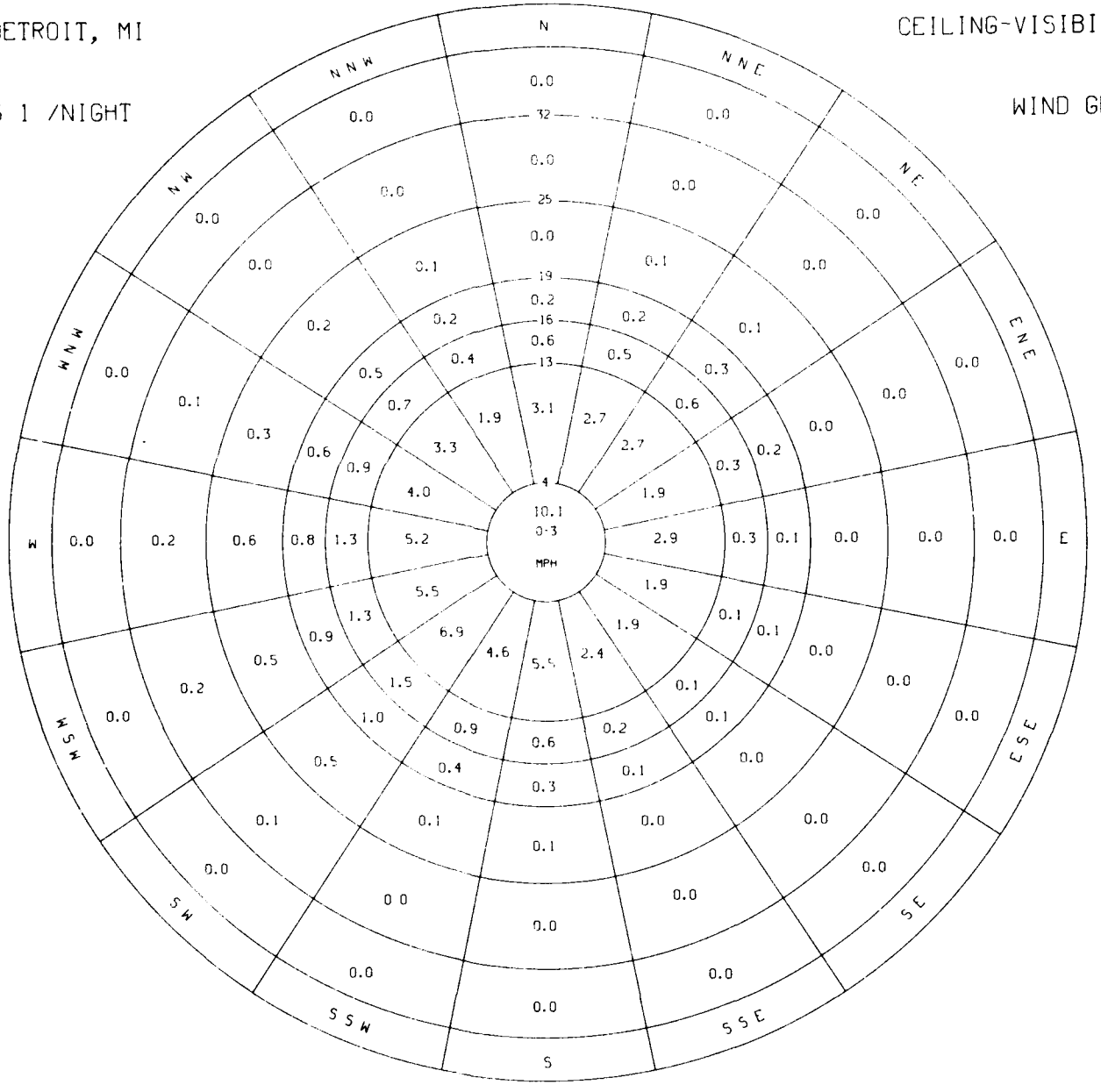
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.2	3.0	3.6	.9	1.1	.4	.5	.2	.2	.0	.0	.0	.0	4.7	5.5	10.8
NNE	.1	.1	1.9	2.3	.7	.8	.3	.3	.1	.1	.0	.0	.0	.0	3.1	3.7	10.8
NE	.1	.2	2.1	2.4	.7	.8	.4	.4	.1	.1	.0	.0	.0	.0	3.3	4.0	10.8
ENE	.1	.1	1.3	1.6	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	2.2	2.6	10.9
E	.1	.1	2.2	2.7	.7	.8	.4	.4	.1	.2	.0	.0	.0	.0	3.6	4.2	10.9
ESE	.1	.1	2.0	2.4	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	2.6	3.1	9.6
SE	.2	.2	2.8	3.3	.6	.7	.2	.2	.0	.0	.0	.0	.0	.0	3.8	4.5	9.6
SSE	.1	.1	3.0	3.6	.7	.8	.3	.3	.0	.0	.0	.0	.0	.0	4.1	4.8	10.1
S	.2	.2	4.1	4.8	1.0	1.2	.4	.5	.1	.2	.0	.0	.0	.0	5.9	7.0	10.4
SSW	.2	.2	3.0	3.6	1.2	1.4	.8	.9	.3	.3	.1	.1	.0	.0	5.5	6.5	11.7
SW	.2	.3	5.0	5.9	2.0	2.4	1.7	2.0	.9	1.1	.3	.3	.0	.1	10.2	12.1	12.7
WSW	.2	.2	4.1	4.8	1.7	2.1	1.4	1.6	.9	1.1	.2	.2	.1	.1	8.6	10.2	12.9
W	.3	.4	4.0	4.7	2.0	2.3	2.0	2.3	1.1	1.3	.3	.3	.0	.1	9.7	11.5	13.3
WNW	.1	.2	3.0	3.6	1.3	1.6	1.2	1.4	.7	.8	.2	.2	.0	.0	6.6	7.8	13.0
NW	.1	.1	3.1	3.7	1.2	1.4	.9	1.1	.4	.5	.1	.1	.0	.0	5.9	7.0	12.2
NNW	.1	.1	2.0	2.4	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	3.5	4.2	11.5
CALM	1.2	1.5													1.2	1.5	
TOTAL	3.6	4.2	46.7	55.4	16.3	19.3	11.1	13.1	5.4	6.4	1.1	1.3	.2	.2	84.3	100	11.6

DTW DETROIT, MI

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS I / NIGHT

STATION NUMBER: 94847

NO. OBS.: 22984

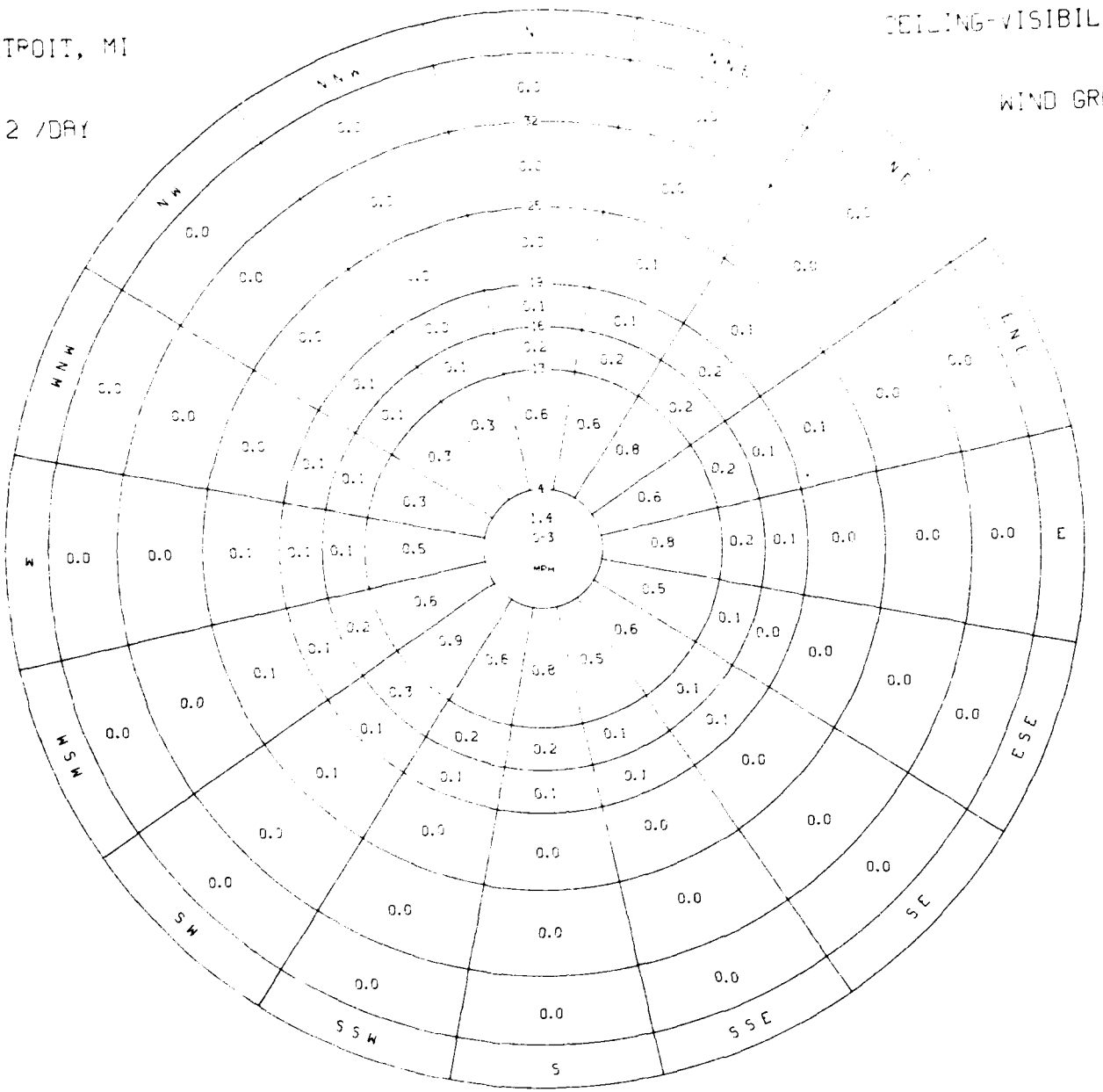
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	3.1	3.7	.6	.7	.2	.3	.0	.0	.0	.0	.0	.0	4.2	4.9	9.3
NNE	.2	.2	2.7	3.2	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	3.7	4.3	9.4
NE	.3	.4	2.7	3.2	.6	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.9	4.6	9.3
ENE	.3	.3	1.9	2.2	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	2.7	3.1	8.7
E	.3	.4	2.9	3.3	.3	.4	.1	.1	.0	.1	.0	.0	.0	.0	3.7	4.3	8.2
ESE	.3	.4	1.9	2.2	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	2.4	2.8	7.1
SE	.4	.5	1.9	2.2	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.6	3.0	7.2
SSE	.3	.3	2.4	2.8	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	3.0	3.4	7.7
S	.8	.9	5.5	6.3	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	7.2	8.4	8.1
SSW	.4	.5	4.6	5.4	.9	1.0	.4	.4	.1	.1	.0	.0	.0	.0	6.4	7.5	9.1
SW	.7	.9	6.9	8.0	1.5	1.8	1.0	1.2	.5	.5	.1	.1	.0	.0	10.7	12.5	10.1
WSW	.5	.6	5.5	6.3	1.3	1.5	.9	1.0	.5	.5	.2	.2	.0	.0	8.7	10.1	10.5
W	.7	.8	5.2	6.0	1.3	1.5	.8	1.0	.6	.7	.2	.2	.0	.0	8.8	10.3	10.7
WNW	.3	.4	4.0	4.6	.9	1.0	.6	.6	.3	.4	.1	.1	.0	.0	6.2	7.2	10.3
NW	.4	.5	3.3	3.8	.7	.8	.5	.6	.2	.2	.0	.0	.0	.0	5.2	6.0	10.0
NNW	.2	.2	1.9	2.2	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.9	3.3	9.6
CALM	3.8	4.4													3.8	4.4	
TOTAL	10.1	11.8	56.3	65.5	10.3	12.0	5.8	6.8	2.6	3.1	.6	.7	.1	.1	85.9	100	9.0

DTW DETROIT, MI

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 2 / DAY

STATION NUMBER: 94847

NO. OBS.: 4978

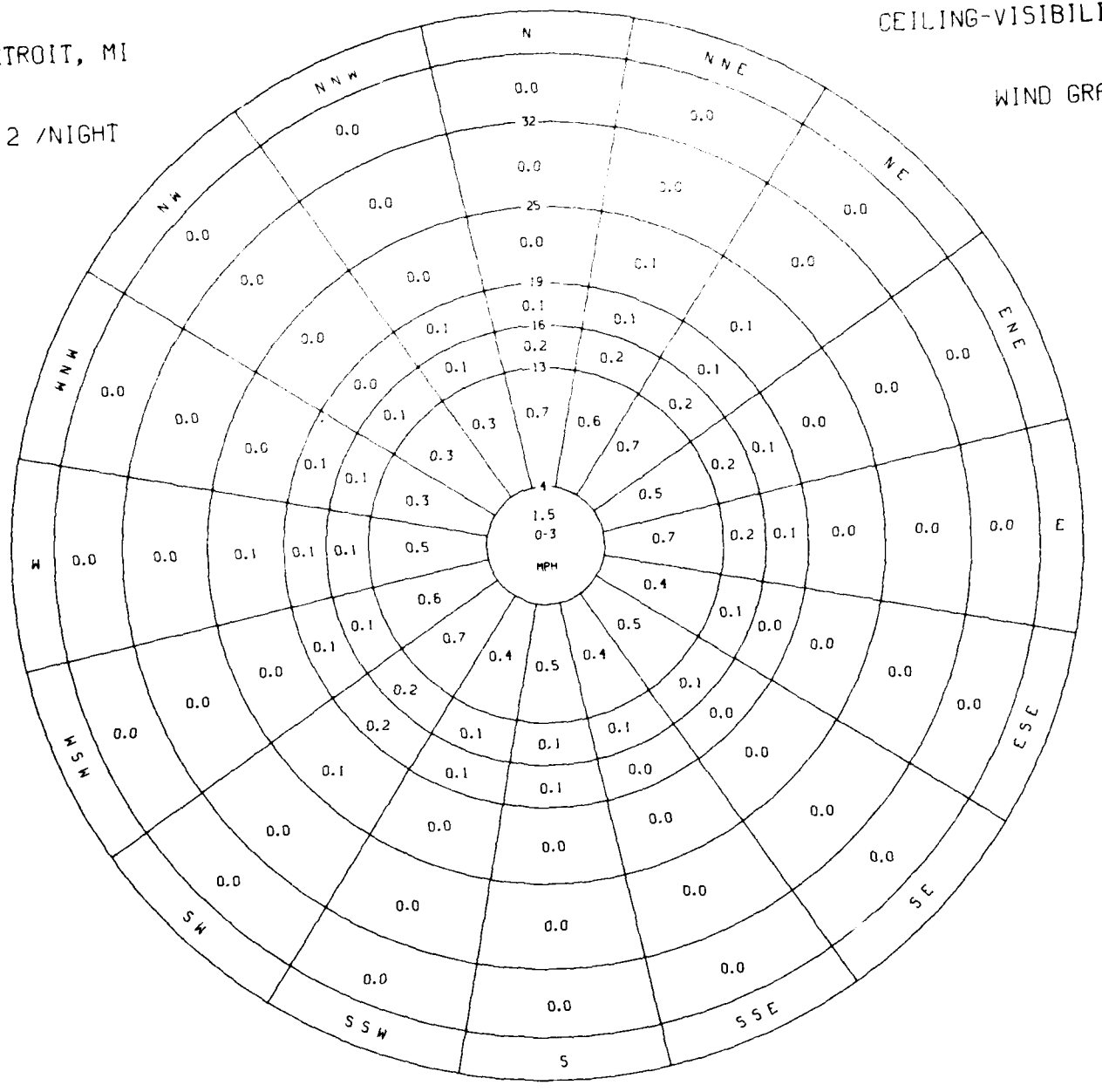
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.6	3.8	.2	1.1	.1	.5	.0	.3	.0	.0	.0	.0	1.0	6.1	10.7
NNE	.0	.2	.6	3.5	.2	1.3	.1	.8	.1	.4	.0	.1	.0	.0	1.0	6.3	11.6
NE	.1	.5	.8	4.8	.2	1.5	.2	1.0	.1	.4	.0	.1	.0	.0	1.3	8.4	10.8
ENE	.0	.3	.6	3.7	.2	1.1	.1	.8	.1	.6	.0	.1	.0	.0	1.0	6.6	11.6
E	.1	.5	.8	5.1	.2	1.3	.1	.7	.0	.3	.0	.1	.0	.0	1.3	8.0	10.4
ESE	.1	.4	.5	3.2	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.7	4.5	8.7
SE	.0	.3	.6	3.8	.1	.7	.1	.3	.0	.1	.0	.0	.0	.0	.8	5.2	9.3
SSE	.0	.2	.5	3.4	.1	.7	.1	.3	.0	.1	.0	.0	.0	.0	.7	4.8	9.9
S	.1	.4	.8	5.2	.2	1.3	.1	.6	.0	.3	.0	.0	.0	.0	1.2	7.8	10.1
SSW	.0	.3	.6	4.0	.2	1.0	.1	.4	.0	.2	.0	.0	.0	.0	.9	5.9	10.0
SW	.1	.5	.9	6.0	.3	1.8	.1	.9	.1	.4	.0	.1	.0	.1	1.5	9.8	10.9
WSW	.1	.4	.6	3.6	.2	1.1	.1	.9	.1	.5	.0	.1	.0	.0	1.1	6.7	11.8
W	.1	.4	.5	3.0	.1	.6	.1	.6	.1	.4	.0	.1	.0	.0	.8	5.2	11.1
WNW	.0	.2	.3	1.8	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.6	3.8	12.5
NW	.0	.3	.3	2.1	.1	.9	.1	.7	.0	.3	.0	.2	.0	.0	.7	4.3	11.9
NNW	.0	.1	.3	1.7	.1	.8	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.1	11.4
CALM	.6	3.6													.6	3.6	
TOTAL	1.4	8.9	3.2	58.8	2.6	16.5	1.5	9.9	.9	4.8	.2	1.1	.0	.2	15.7	100	10.4

DTW DETROIT, MI

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 2 / NIGHT

STATION NUMBER: 94847

NO. OBS.: 3762

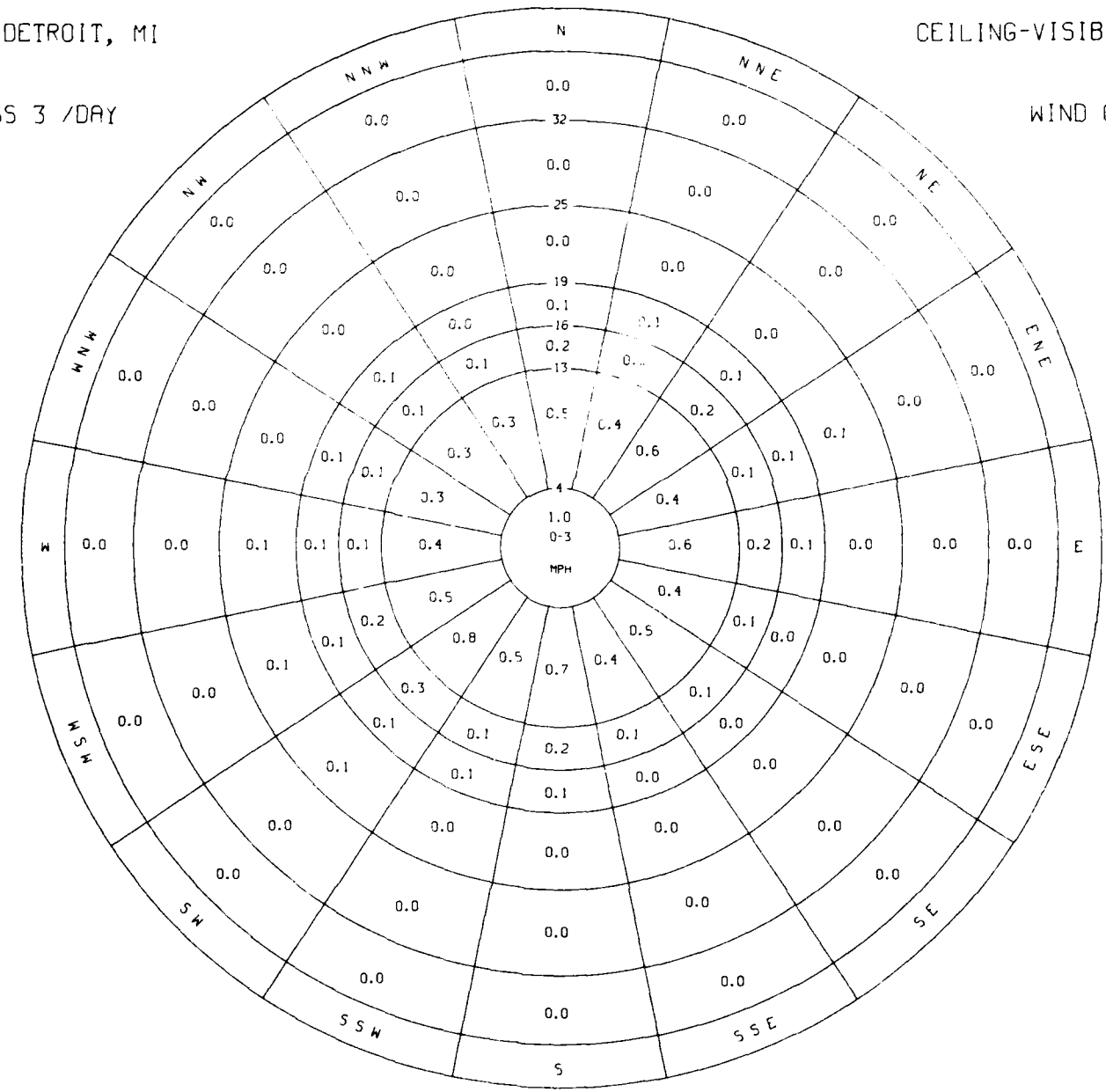
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.7	4.6	.2	1.3	.1	.8	.0	.3	.0	.0	.0	.0	1.0	7.3	11.1
NNE	.0	.2	.6	4.1	.2	1.4	.1	1.0	.1	.4	.0	.1	.0	.0	1.0	7.1	11.7
NE	.0	.3	.7	4.9	.2	1.6	.1	1.0	.1	.6	.0	.1	.0	.0	1.2	8.6	11.4
ENE	.1	.6	.5	3.9	.2	1.2	.1	1.0	.0	.3	.0	.1	.0	.0	1.0	7.0	10.6
E	.1	.6	.7	5.2	.2	1.3	.1	1.1	.0	.3	.0	.1	.0	.0	1.2	8.5	10.3
ESE	.1	.5	.4	3.1	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.6	4.3	8.4
SE	.1	.4	.5	3.3	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.6	4.4	8.5
SSE	.1	.4	.4	2.8	.1	.5	.0	.1	.0	.1	.0	.0	.0	.0	.6	3.9	8.8
S	.1	.6	.5	3.8	.1	1.0	.1	.5	.0	.1	.0	.0	.0	.0	.8	6.0	9.5
SSW	.1	.4	.4	3.2	.1	.7	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.1	10.1
SW	.1	.4	.7	4.6	.2	1.5	.2	1.1	.1	.4	.0	.1	.0	.0	1.1	8.2	11.0
WSW	.1	.4	.6	4.1	.1	.9	.1	1.0	.0	.3	.0	.1	.0	.0	1.0	6.9	10.7
W	.1	.4	.5	3.3	.1	.7	.1	1.1	.1	.4	.0	.1	.0	.1	.8	6.0	11.2
WNW	.1	.4	.3	2.5	.1	.4	.1	.5	.0	.2	.0	.2	.0	.0	.6	4.1	11.0
NW	.0	.3	.3	2.4	.1	1.1	.0	.3	.0	.3	.0	.1	.0	.0	.6	4.5	11.2
NNW	.0	.2	.3	2.0	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.5	3.4	10.7
CALM	.7	4.7													.7	4.7	
TOTAL	1.5	11.0	8.1	57.9	2.1	15.1	1.5	10.8	.6	4.3	.1	.9	.0	.1	14.1	100	10.0

DTW DETROIT, MI

CEILING-VISIBILITY

CLASS 3 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 3 / DAY

STATION NUMBER: 94847

NO. OBS.: 4093

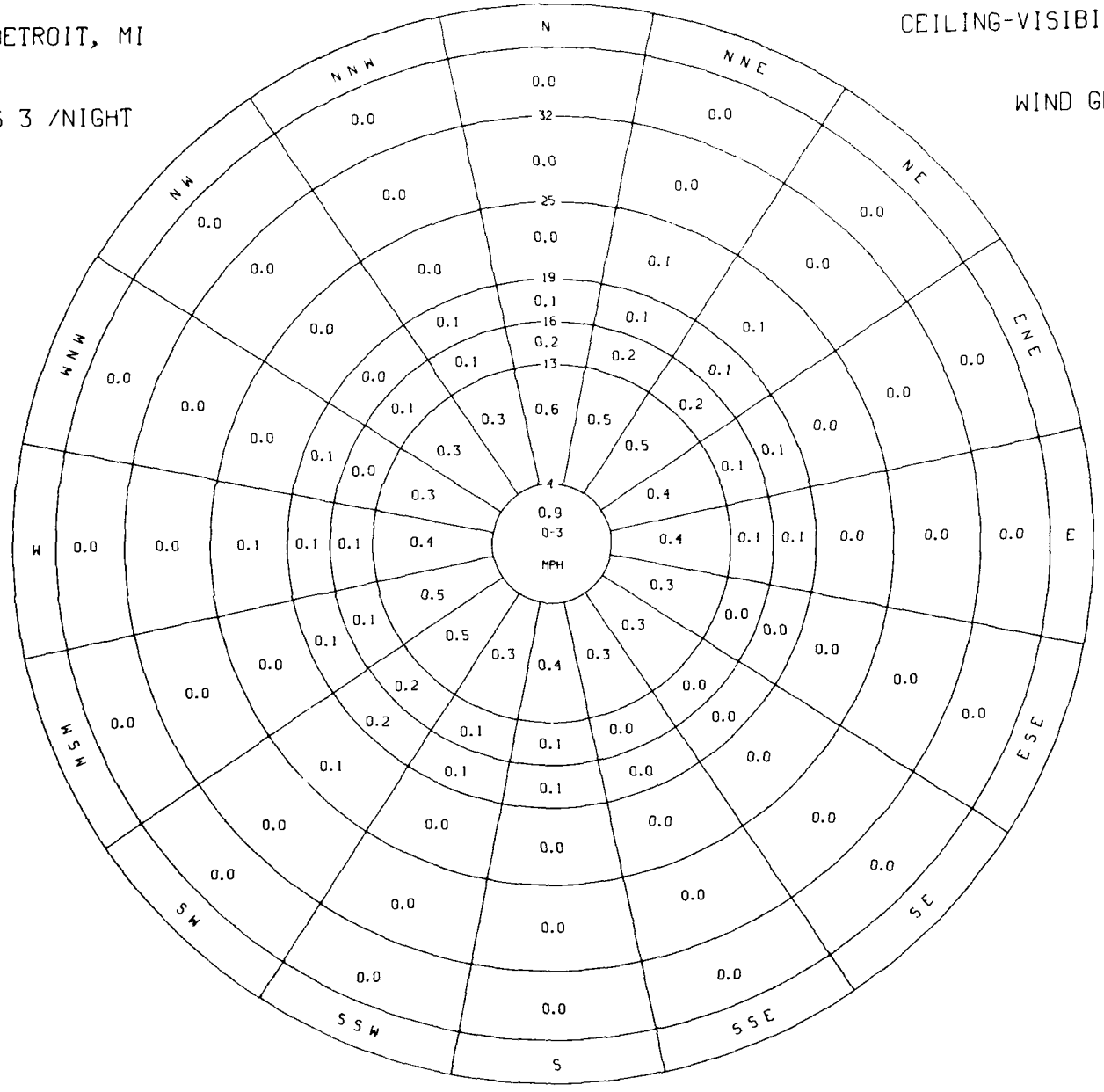
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.5	3.9	.2	1.3	.1	.6	.0	.2	.0	.0	.0	.0	.8	6.2	10.6
NNE	.0	.1	.4	3.2	.2	1.3	.1	.8	.0	.4	.0	.1	.0	.0	.8	6.0	11.9
NE	.1	.5	.6	4.7	.2	1.5	.1	1.1	.0	.3	.0	.1	.0	.0	1.1	8.2	10.9
ENE	.0	.3	.4	3.3	.1	1.1	.1	.9	.1	.6	.0	.1	.0	.0	.8	6.2	11.8
E	.1	.5	.6	4.7	.2	1.3	.1	.8	.0	.3	.0	.1	.0	.0	1.0	7.7	10.6
ESE	.0	.3	.4	2.8	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.5	4.0	9.2
SE	.0	.1	.5	3.5	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.6	4.8	9.6
SSE	.0	.2	.4	2.9	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.5	4.2	10.1
S	.0	.3	.7	5.1	.2	1.4	.1	.7	.0	.3	.0	.0	.0	.0	1.0	7.8	10.4
SSW	.0	.3	.5	4.1	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.8	6.2	10.2
SW	.1	.4	.8	6.3	.3	2.1	.1	1.1	.1	.5	.0	.1	.0	.1	1.4	10.5	11.1
WSW	.0	.4	.5	3.8	.2	1.2	.1	1.1	.1	.6	.0	.1	.0	.0	.9	7.3	12.0
W	.0	.3	.4	3.3	.1	.7	.1	.7	.1	.4	.0	.1	.0	.0	.7	5.6	11.2
WNW	.0	.2	.3	2.0	.1	.8	.1	.7	.0	.3	.0	.1	.0	.0	.5	4.1	12.4
NW	.0	.2	.3	2.2	.1	1.0	.1	.7	.0	.3	.0	.1	.0	.0	.6	4.6	11.9
NNW	.0	.1	.3	2.0	.1	.9	.0	.3	.0	.2	.0	.0	.0	.0	.4	3.5	11.3
CALM	.4	3.2													.4	3.2	
TOTAL	1.0	7.9	7.5	57.9	2.2	17.4	1.4	10.8	.6	4.9	.1	1.0	.0	.2	12.9	100	10.6

DTW DETROIT, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 3 / NIGHT

STATION NUMBER: 94847

NO. OBS.: 2913

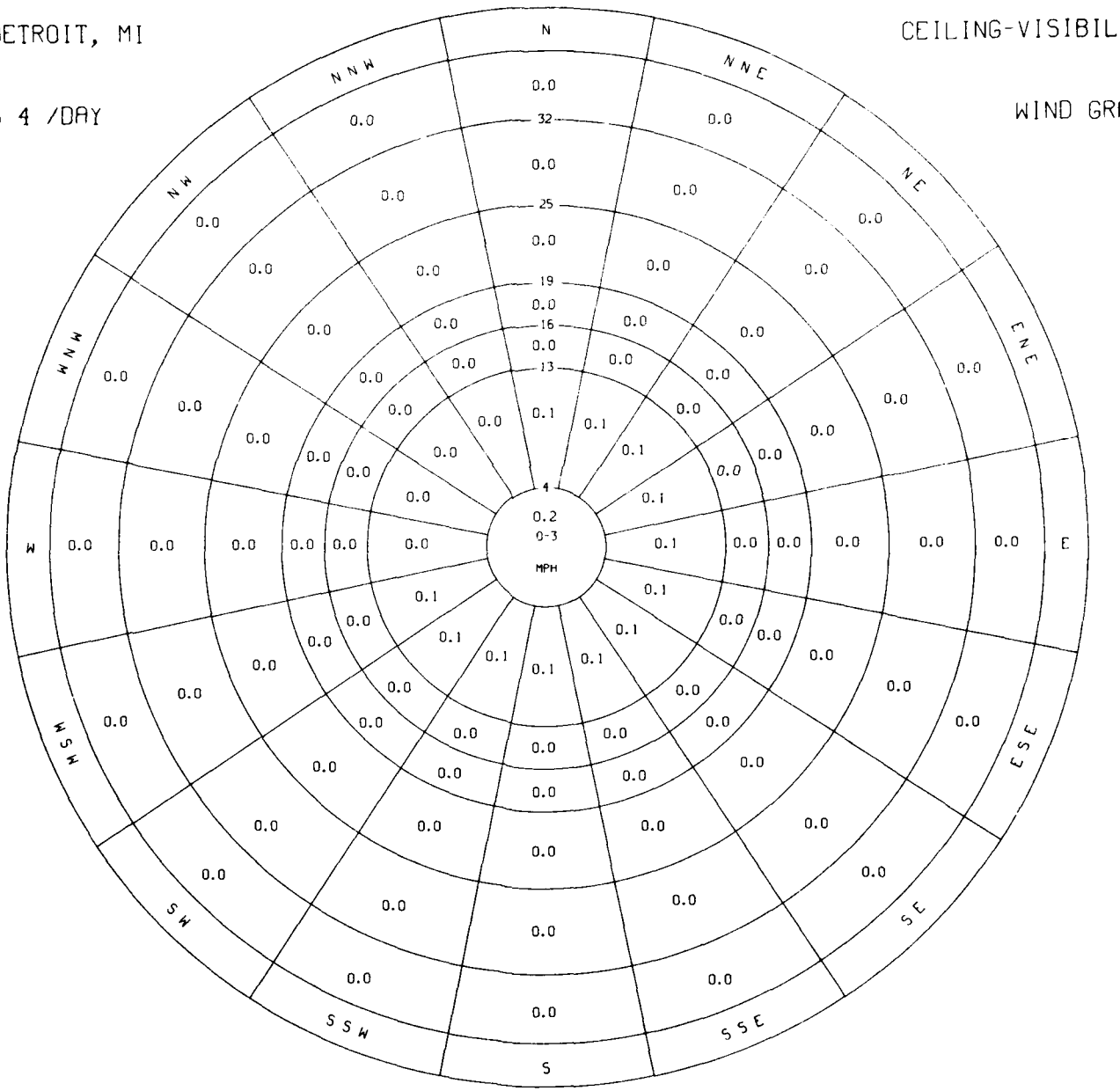
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.6	5.1	.2	1.6	.1	.9	.0	.3	.0	.0	.0	.0	.9	8.2	11.2
NNE	.0	.2	.5	4.4	.2	1.7	.1	1.1	.1	.5	.0	.1	.0	.0	.9	8.0	12.1
NE	.0	.2	.5	4.7	.2	1.9	.1	1.2	.1	.6	.0	.2	.0	.0	1.0	8.8	12.0
ENE	.0	.4	.4	3.5	.1	1.2	.1	1.1	.0	.4	.0	.1	.0	.0	.7	6.6	11.1
E	.0	.4	.4	4.1	.1	1.3	.1	1.1	.0	.4	.0	.1	.0	.0	.8	7.3	11.0
ESE	.1	.5	.3	2.7	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4	4.0	9.0
SE	.0	.4	.3	2.4	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.4	3.4	8.6
SSE	.0	.4	.3	2.6	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.4	3.7	8.8
S	.0	.4	.4	3.3	.1	1.2	.1	.5	.0	.2	.0	.0	.0	.0	.6	5.5	10.2
SSW	.0	.3	.3	3.2	.1	.8	.1	.7	.0	.1	.0	.0	.0	.0	.6	5.2	10.5
SW	.0	.3	.5	4.6	.2	1.8	.2	1.4	.1	.5	.0	.1	.0	.0	.9	8.6	11.5
WSW	.0	.3	.5	4.2	.1	1.2	.1	1.2	.0	.4	.0	.1	.0	.0	.8	7.4	11.4
W	.0	.4	.4	3.4	.1	.9	.1	1.2	.1	.5	.0	.1	.0	.0	.7	6.6	11.5
WNW	.0	.2	.3	2.6	.0	.4	.1	.6	.0	.3	.0	.2	.0	.0	.5	4.4	11.8
NW	.0	.2	.3	2.8	.1	1.3	.0	.4	.0	.3	.0	.1	.0	.0	.5	5.0	11.3
NNW	.0	.1	.3	2.4	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.4	3.9	11.0
CALM	.4	3.5													.4	3.5	
TOTAL	.9	8.4	6.1	56.0	1.9	17.2	1.4	12.5	.5	4.9	.1	1.0	.0	.0	10.9	100	10.7

DTW DETROIT, MI

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 4 / DAY

STATION NUMBER: 94847

NO. OBS.: 607

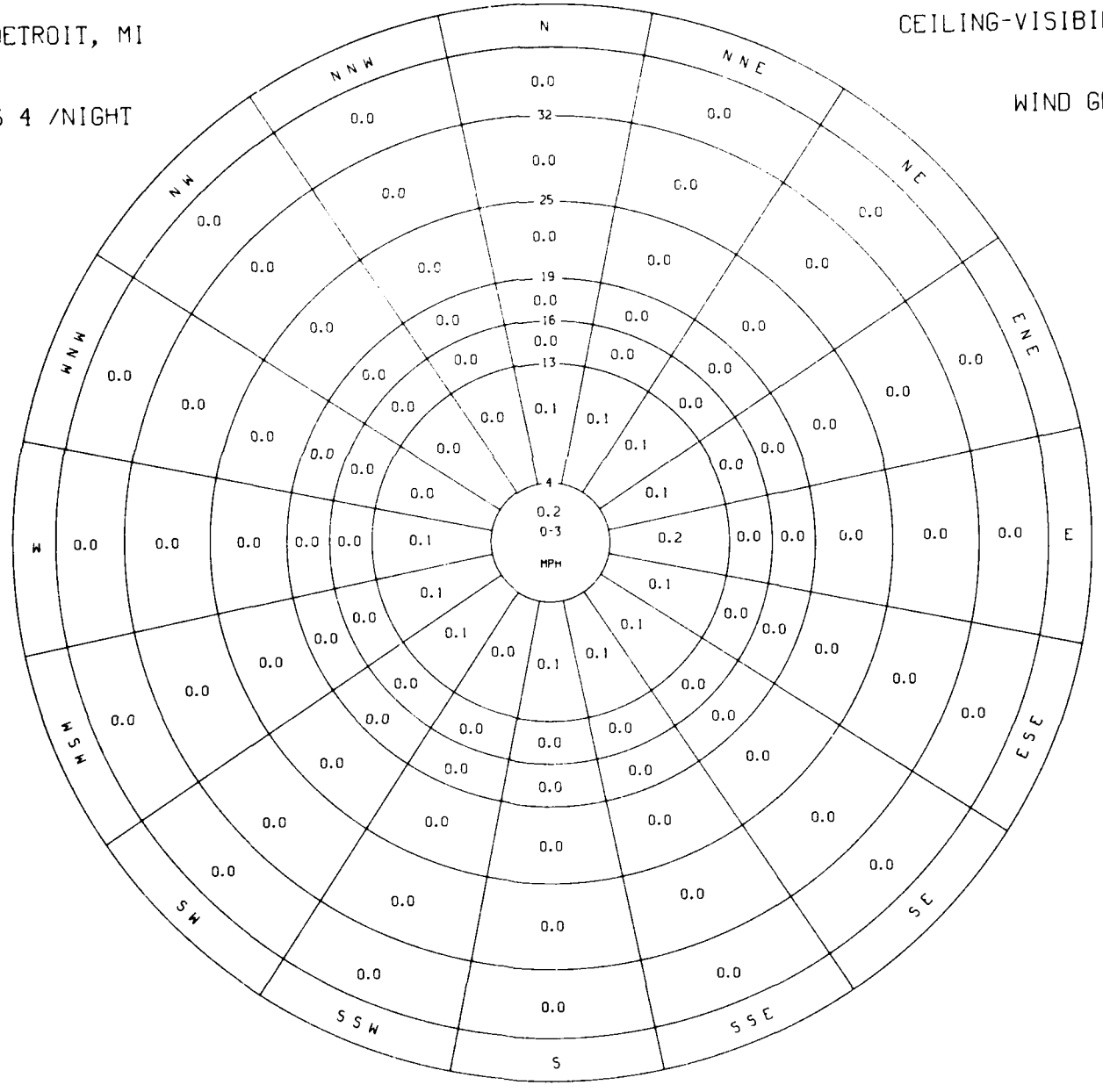
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.1	4.1	.0	.7	.0	.7	.0	.8	.0	.0	.0	.0	.1	6.3	11.6
NNE	.0	.3	.1	4.1	.0	2.0	.0	.8	.0	.5	.0	.0	.0	.0	.1	7.7	11.6
NE	.0	.3	.1	6.1	.0	2.3	.0	.7	.0	.2	.0	.0	.0	.0	.2	9.6	10.5
ENE	.0	.3	.1	5.3	.0	1.5	.0	.7	.0	1.0	.0	.3	.0	.0	.2	9.1	11.6
E	.0	.3	.1	6.6	.0	1.8	.0	.3	.0	.3	.0	.2	.0	.0	.2	9.6	10.3
ESE	.0	1.0	.1	5.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1	6.6	7.0
SE	.0	.7	.1	5.1	.0	.7	.0	.2	.0	.2	.0	.0	.0	.0	.1	6.8	8.8
SSE	.0	.3	.1	4.9	.0	1.0	.0	.3	.0	.3	.0	.0	.0	.0	.1	6.9	10.0
S	.0	.3	.1	5.6	.0	1.3	.0	.2	.0	.3	.0	.0	.0	.0	.1	7.7	9.8
SSW	.0	.5	.1	3.0	.0	.8	.0	.2	.0	.2	.0	.0	.0	.0	.1	4.6	9.0
SW	.0	.7	.1	4.6	.0	.8	.0	.2	.0	.0	.0	.2	.0	.0	.1	6.4	8.9
WSW	.0	.2	.1	3.0	.0	.3	.0	.2	.0	.2	.0	.2	.0	.0	.1	4.0	10.0
W	.0	.8	.0	1.6	.0	.5	.0	.2	.0	.5	.0	.0	.0	.0	.1	3.6	10.0
WNW	.0	.2	.0	1.0	.0	.3	.0	.7	.0	.2	.0	.3	.0	.0	.1	2.6	13.8
NW	.0	.3	.0	1.5	.0	.5	.0	.5	.0	.3	.0	.5	.0	.0	.1	3.6	13.8
NNW	.0	.0	.0	.7	.0	.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.3	12.4
CALM	.1	3.6													.1	3.6	
TOTAL	.2	9.9	1.2	62.4	.3	14.7	.1	6.4	.1	4.9	.0	1.6	.0	.0	1.9	100	9.9

DTW DETROIT, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 4 / NIGHT

STATION NUMBER: 94847

NO. OBS.: 490

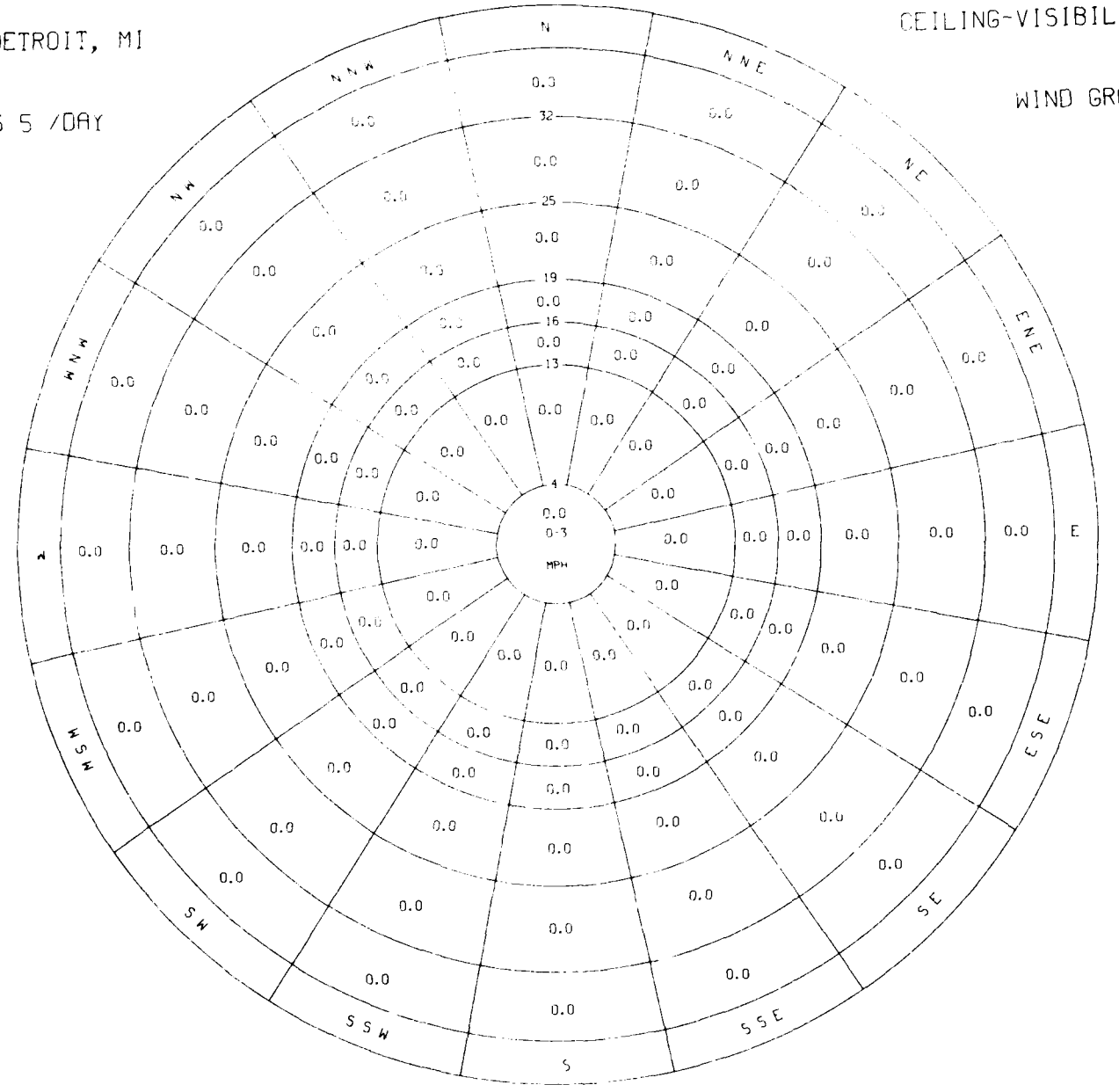
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.1	3.3	.0	.6	.0	.4	.0	.2	.0	.0	.0	.0	.1	4.5	10.0
NNE	.0	.2	.1	3.9	.0	.8	.0	1.0	.0	.0	.0	.0	.0	.0	.1	5.9	10.0
NE	.0	.6	.1	5.9	.0	.8	.0	.8	.0	1.0	.0	.0	.0	.0	.2	9.2	10.2
ENE	.0	.6	.1	5.7	.0	2.0	.0	.8	.0	.4	.0	.2	.0	.0	.2	9.8	10.9
E	.0	.6	.2	9.2	.0	1.8	.0	1.6	.0	.2	.0	.0	.0	.0	.2	13.5	10.1
ESE	.0	.2	.1	4.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.9	8.1
SE	.0	.0	.1	6.7	.0	.8	.0	.6	.0	.2	.0	.0	.0	.0	.2	8.4	9.7
SSE	.0	.0	.1	3.1	.0	.8	.0	.2	.0	.2	.0	.0	.0	.0	.1	4.3	10.6
S	.0	.2	.1	5.1	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	6.1	9.2
SSW	.0	.6	.0	2.7	.0	.6	.0	.4	.0	.4	.0	.0	.0	.0	.1	4.7	10.2
SW	.0	.6	.1	5.3	.0	1.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	7.3	9.1
WSW	.0	.2	.1	3.1	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.1	3.7	7.8
W	.0	.4	.1	3.5	.0	.4	.0	.8	.0	.0	.0	.0	.0	.0	.1	5.1	8.7
WNW	.0	.6	.0	1.8	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	3.1	8.1
NW	.0	.6	.0	1.2	.0	.6	.0	.2	.0	.8	.0	.0	.0	.0	.1	3.5	12.9
NNW	.0	.0	.0	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	10.9
CALM	.1	4.5													.1	4.5	
TOTAL	.2	10.0	1.2	65.5	.2	12.7	.1	8.2	.1	3.5	.0	.2	.0	.0	1.8	100	9.4

DTW DETROIT, MI

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 5 / DAY

STATION NUMBER: 94847

NO. OBS.: 123

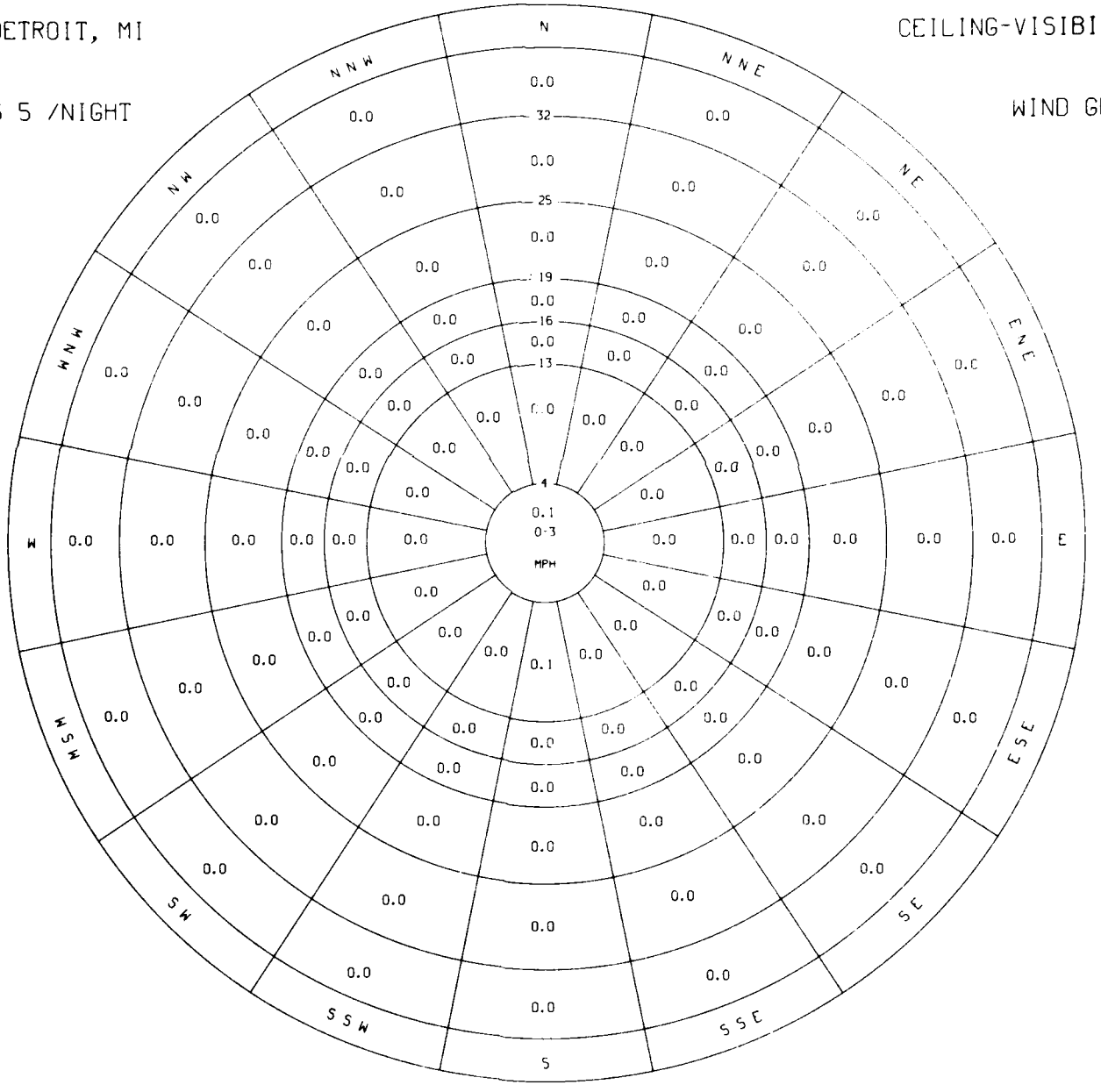
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.6	11.5
NNE	.0	.0	.0	5.7	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	7.3	10.1
NE	.0	.8	.0	5.7	.0	2.4	.0	.8	.0	2.4	.0	.0	.0	.0	.0	12.2	11.6
ENE	.0	.8	.0	6.5	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	9.8	9.3
E	.0	.8	.0	7.3	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	10.6	9.1
ESE	.0	.0	.0	5.7	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	8.1
SE	.0	2.4	.0	5.7	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	10.6	7.9
SSE	.0	.0	.0	7.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	7.8
S	.0	.8	.0	5.7	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	7.0
SSW	.0	.0	.0	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	7.5
SW	.0	.8	.0	3.3	.0	.8	.0	.8	.0	.0	.0	.8	.0	.0	.0	6.5	11.4
WSW	.0	.8	.0	2.4	.0	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	4.9	10.5
W	.0	.0	.0	.8	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.4	13.7
WNW	.0	.0	.0	.8	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	1.6	11.5
NW	.0	.0	.0	1.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	10.0
NNW	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	2.4	16.3
CALM	.0	2.4													.0	2.4	
TOTAL	.0	10.6	.2	62.6	.0	11.4	.0	8.1	.0	4.9	.0	2.4	.0	.0	.4	100	9.4

DTW DETROIT, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 5 / NIGHT

STATION NUMBER: 94847

NO. OBS.: 163

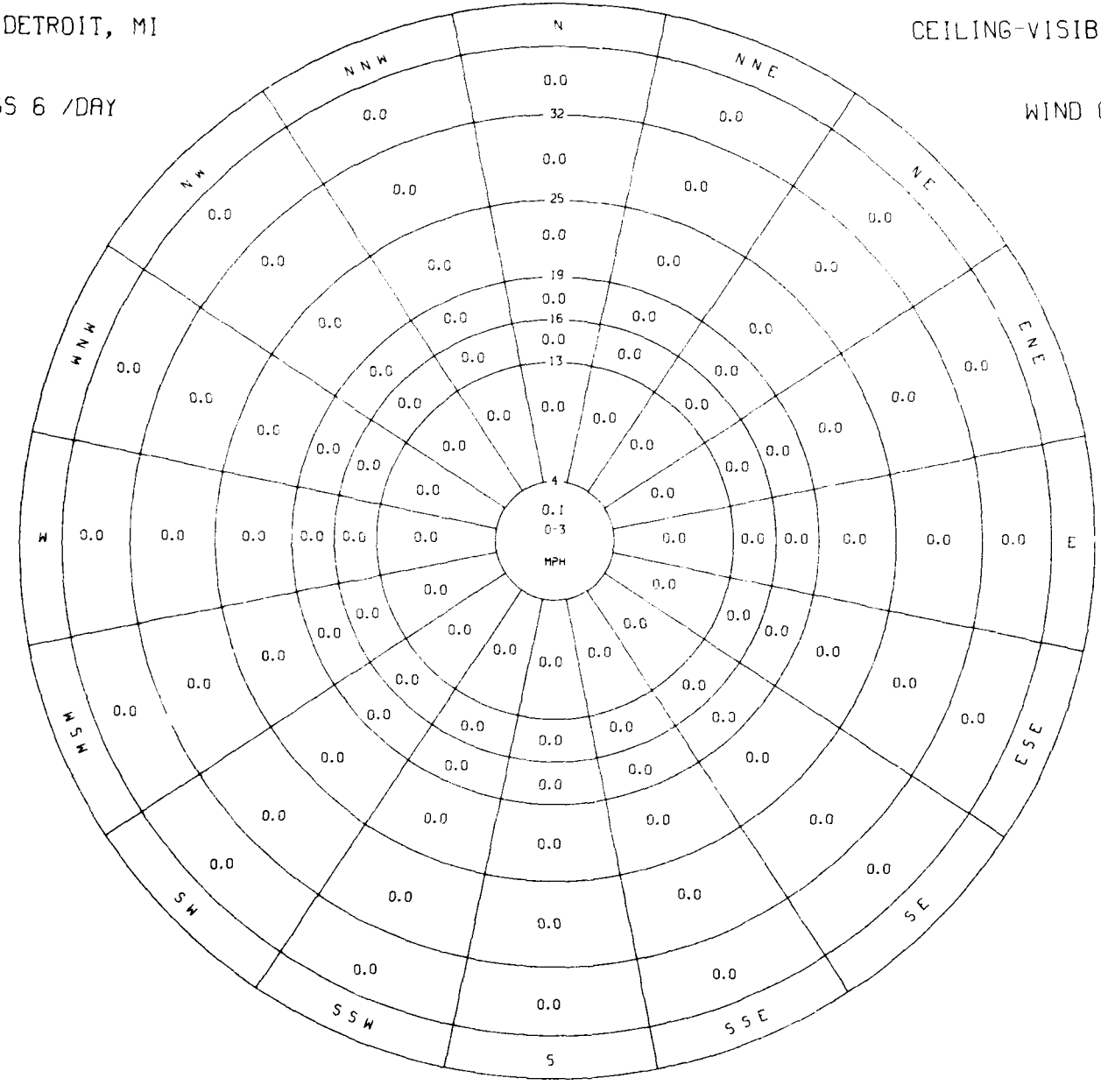
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	3.1	.0	.0	.0	.6	.0	.6	.0	.6	.0	.0	.0	4.9	12.2
NNE	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	6.5
NE	.0	.6	.0	6.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	7.4	8.0
ENE	.0	1.8	.0	7.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.2	6.9
E	.0	1.8	.0	8.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.1	11.0	8.0
ESE	.0	2.5	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	5.6
SE	.0	.0	.0	4.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	8.5
SSE	.0	1.2	.0	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.2	7.9
S	.0	.6	.1	8.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.8	8.1
SSW	.0	.0	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	8.0
SW	.0	.6	.0	2.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	9.7
WSW	.0	.0	.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	8.7
W	.0	.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	.0	4.9	12.8
WNW	.0	1.2	.0	1.8	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	3.7	7.3
NW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.0
NNW	.0	.0	.0	1.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	10.0
CALM	.1	9.8													.1	9.8	
TOTAL	.1	21.5	.4	70.6	.0	3.1	.0	1.2	.0	1.8	.0	.6	.0	1.2	.6	100	7.5

DTW DETROIT, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 6 / DAY

STATION NUMBER: 94847

NO. OBS.: 155

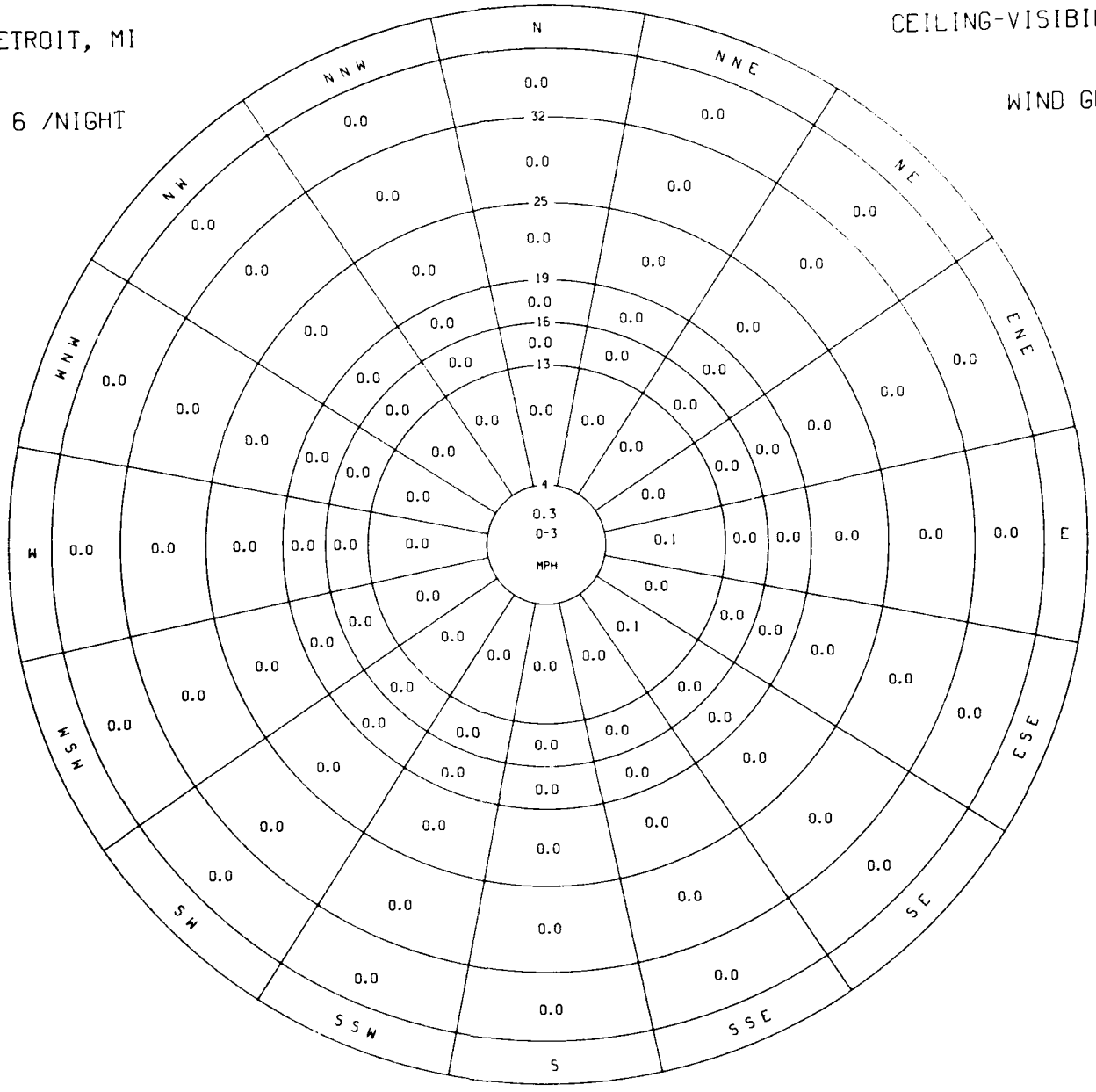
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	3.9	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	4.5	8.9
NNE	.0	.6	.0	7.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	5.9
NE	.0	1.9	.0	3.9	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	6.5	7.3
ENE	.0	.0	.0	3.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	7.3
E	.0	.6	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	6.3
ESE	.0	1.3	.0	3.9	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	7.0
SE	.0	.6	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	6.7
SSE	.0	.6	.0	7.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.4	7.2
S	.0	.6	.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	7.3
SSW	.0	.0	.0	5.2	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	7.2
SW	.0	1.3	.0	5.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.1	6.6
WSW	.0	1.9	.0	1.9	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	4.5	7.0
W	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	3.2	9.4
WNW	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	.0	1.9	13.3
NW	.0	1.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	4.0
NNW	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.0
CALM	.1	16.8													.1	16.8	
TOTAL	.1	30.3	.3	63.9	.0	2.6	.0	.6	.0	1.3	.0	.6	.0	.6	.5	100	5.9

DTW DETROIT, MI

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: DTW DETROIT, MI

PERIOD: 1959-1978

CLASS 6 / NIGHT

STATION NUMBER: 94847

NO. OBS.: 196

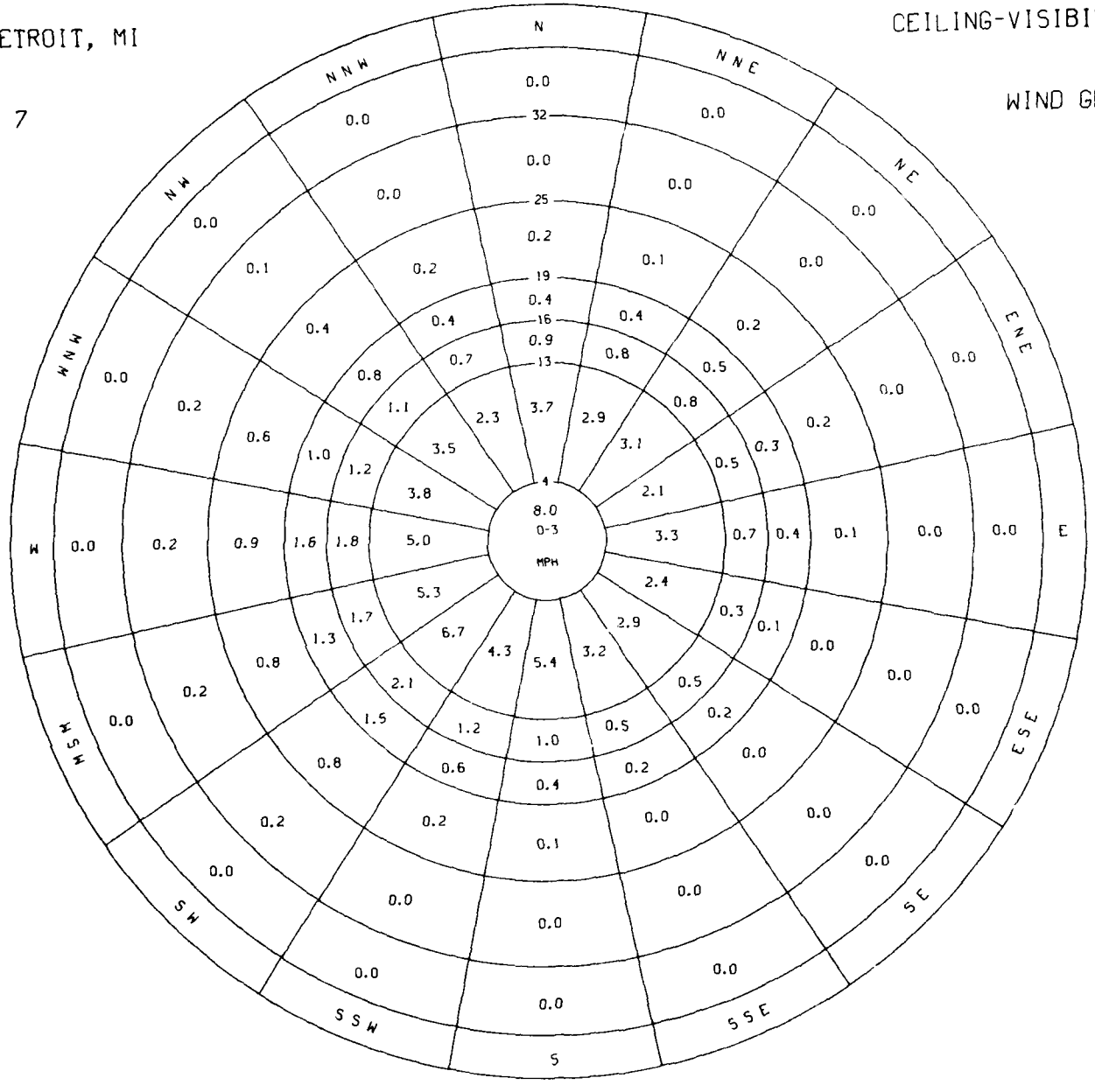
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	7.5
NNE	.0	.5	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	6.4
NE	.0	1.5	.0	4.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	5.9
ENE	.0	1.5	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	4.4
E	.0	3.1	.1	8.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	11.2	6.0
ESE	.0	.5	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.7
SE	.0	1.5	.1	7.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.2	5.9
SSE	.0	1.0	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	5.4
S	.0	4.1	.0	4.1	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.7	5.2
SSW	.0	1.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	5.5
SW	.0	2.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.7	6.2
WSW	.0	2.0	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.7	5.5
W	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.0
WNW	.0	1.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	5.1
NW	.0	2.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	3.6
NNW	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	2.7
CALM	.1	18.4													.1	18.4	
TOTAL	.3	42.3	.4	56.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	100	4.6

DTW DETROIT, MI

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

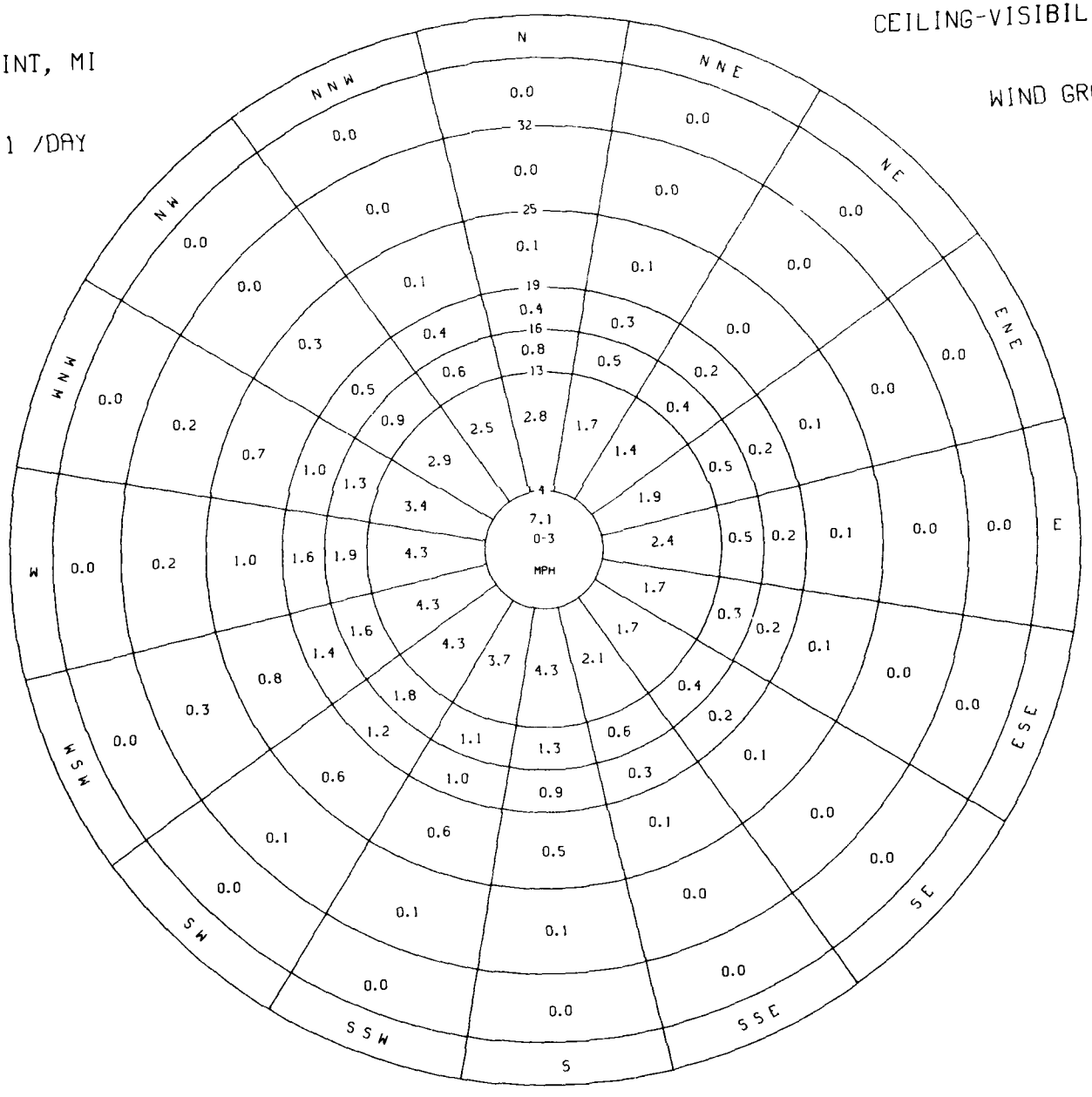

N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0.0
32
0.0
0.0
25
0.2
0.1
19
0.4
0.4
16
0.9
0.8
13
0.7
0.5
1.1
0.8
2.3
3.7
2.9
3.1
0.8
0.5
0.3
3.5
1.2
1.0
0.6
0.2
0.0
4
8.0
0-3
MPH
3.8
1.6
1.8
0.9
0.2
0.0
5.0
3.3
0.7
0.4
0.1
0.0
0.0
5.3
2.4
1.7
1.3
0.8
0.2
0.0
6.7
4.3
5.4
3.2
2.9
0.3
0.1
2.1
1.5
1.2
1.0
0.5
0.2
0.0
0.8
0.6
0.4
0.2
0.0
0.0
0.2
0.2
0.1
0.0
0.0
0.0

FNT FLINT, MI

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH


N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0.0
32
0.0
0.0
25
0.1
0.1
19
0.4
0.3
16
0.8
0.5
13
0.6
2.5
2.8
1.7
4
7.1
0-3
MPH
0.9
2.9
1.4
1.3
3.4
1.9
1.0
4.3
2.4
1.6
1.9
4.3
1.7
4.3
1.6
1.4
4.3
3.7
4.3
2.1
1.7
0.8
1.8
1.2
1.1
1.3
0.6
0.4
1.0
0.9
0.6
0.6
0.5
0.1
0.1
0.1
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0.0

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 1 / DAY

STATION NUMBER: 14826

NO. OBS.: 39768

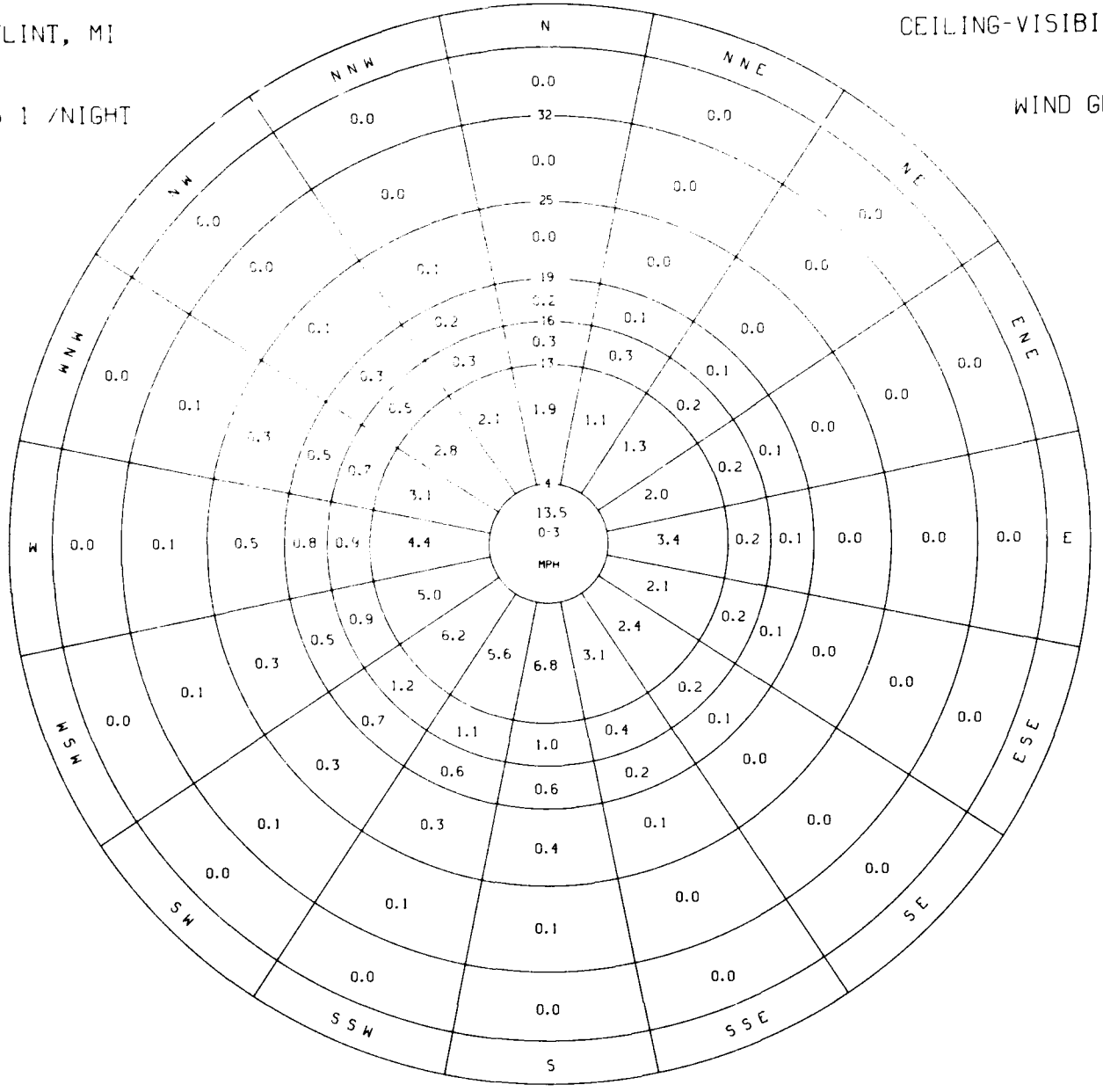
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.4	2.8	3.4	.8	1.0	.4	.4	.1	.1	.0	.0	.0	.0	4.4	5.2	10.0
NNE	.2	.2	1.7	2.1	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	2.9	3.4	10.4
NE	.1	.2	1.4	1.7	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	2.2	2.6	10.0
ENE	.2	.2	1.9	2.3	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	2.9	3.4	10.0
E	.3	.4	2.4	2.9	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	3.5	4.2	9.1
ESE	.3	.3	1.7	2.1	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.6	3.1	9.4
SE	.3	.4	1.7	2.1	.4	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.7	3.2	9.4
SSE	.3	.3	2.1	2.5	.6	.7	.3	.3	.1	.1	.0	.0	.0	.0	3.3	4.0	10.0
S	.5	.6	4.3	5.1	1.3	1.6	.9	1.1	.5	.6	.1	.1	.0	.0	7.7	9.2	11.1
SSW	.3	.4	3.7	4.4	1.1	1.4	1.0	1.2	.6	.7	.1	.1	.0	.0	6.9	8.2	11.9
SW	.5	.5	4.3	5.2	1.8	2.1	1.2	1.4	.6	.8	.1	.2	.0	.0	8.5	10.2	11.8
WSW	.4	.5	4.3	5.2	1.6	2.0	1.4	1.6	.8	.9	.3	.3	.0	.1	8.8	10.5	12.4
W	.5	.5	4.3	5.1	1.9	2.3	1.6	1.9	1.0	1.2	.2	.3	.0	.0	9.5	11.4	12.7
WNW	.3	.3	3.4	4.0	1.3	1.5	1.0	1.3	.7	.8	.2	.2	.0	.0	6.8	8.2	12.5
NW	.4	.4	2.9	3.5	.9	1.0	.5	.7	.3	.4	.0	.0	.0	.0	5.1	6.0	10.8
NNW	.2	.3	2.5	3.0	.6	.7	.4	.5	.1	.2	.0	.0	.0	.0	3.9	4.7	10.4
CALM	2.0	2.4													2.0	2.4	
TOTAL	7.1	8.4	45.6	54.5	14.5	17.3	10.1	12.0	5.2	6.3	1.1	1.3	.2	.2	83.7	100	11.0

FNT FLINT, MI

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 1 / NIGHT

STATION NUMBER: 14826

NO. OBS.: 33704

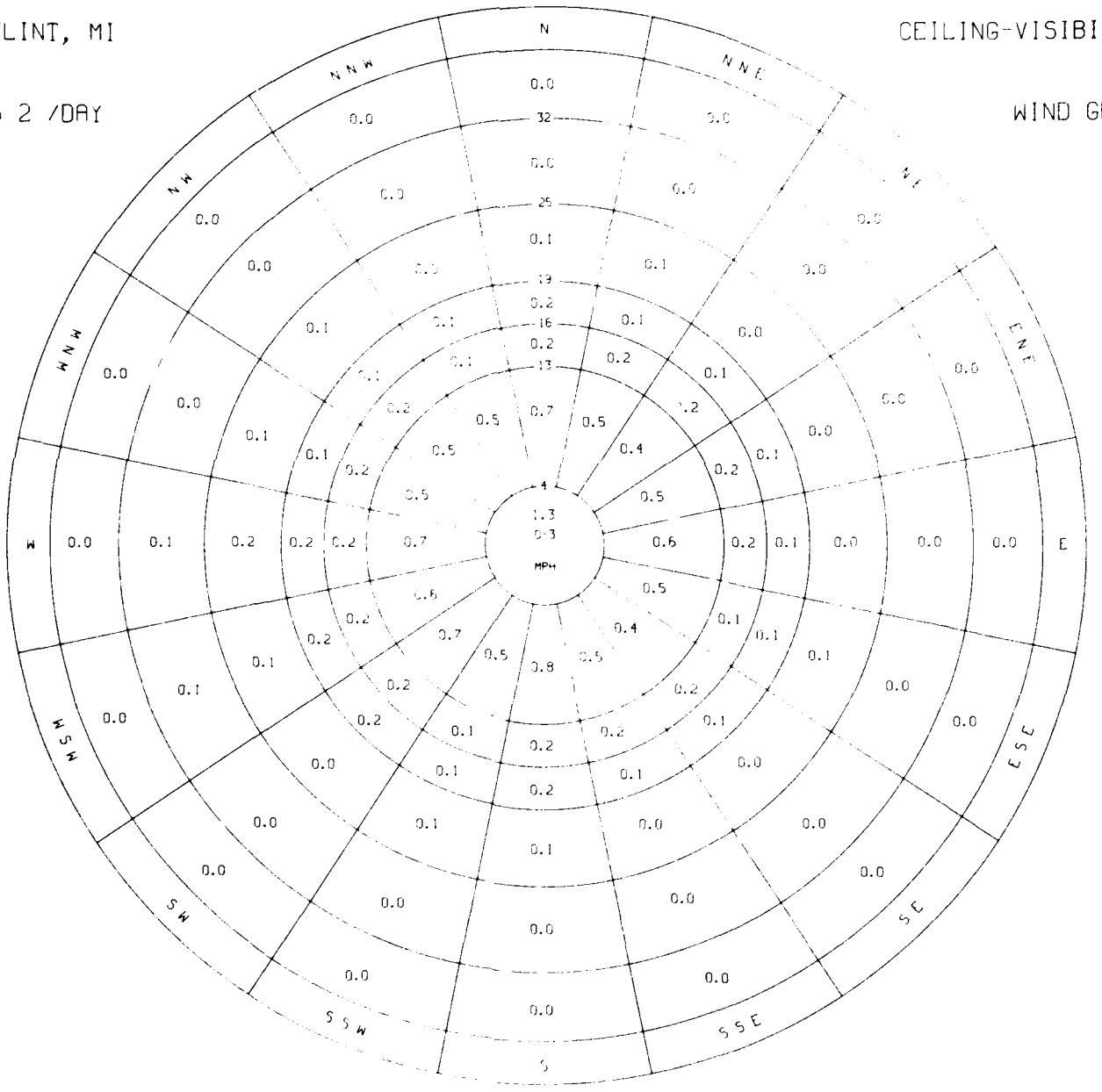
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.4	.5	1.9	2.3	.3	.3	.2	.2	.0	.1	.0	.0	.0	.0	2.8	3.3	8.4
NNE	.2	.2	1.1	1.3	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.6	1.9	9.2
NE	.2	.3	1.3	1.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.8	2.1	8.6
ENE	.3	.4	2.0	2.3	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.2	8.3
E	.7	.8	3.4	4.1	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	4.5	5.3	7.3
ESE	.5	.6	2.1	2.6	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.0	3.6	7.6
SE	.7	.9	2.4	2.8	.2	.3	.1	.2	.0	.0	.0	.0	.0	.0	3.5	4.2	7.4
SSE	.6	.7	3.1	3.7	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	4.5	5.3	8.3
S	1.3	1.5	6.8	8.1	1.0	1.2	.6	.8	.4	.4	.1	.1	.0	.0	10.2	12.1	9.0
SSW	.8	.9	5.6	6.7	1.1	1.3	.6	.7	.3	.4	.1	.1	.0	.0	8.5	10.1	9.5
SW	1.0	1.2	6.2	7.4	1.2	1.4	.7	.9	.3	.4	.1	.1	.0	.0	9.5	11.3	9.4
WSW	.7	.8	5.0	5.9	.9	1.0	.5	.6	.3	.4	.1	.1	.0	.1	7.5	9.0	9.8
W	.7	.8	4.4	5.3	.9	1.1	.8	1.0	.5	.6	.1	.1	.0	.0	7.4	8.8	10.5
WNW	.4	.4	3.1	3.7	.7	.9	.5	.6	.3	.3	.1	.1	.0	.0	5.1	6.1	10.6
NW	.5	.5	2.8	3.3	.5	.6	.3	.3	.1	.2	.0	.0	.0	.0	4.1	4.9	9.1
NNW	.3	.3	2.1	2.5	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	3.0	3.6	9.2
CALM	4.4	5.2													4.4	5.2	
TOTAL	13.5	16.1	53.3	63.4	8.6	10.2	5.3	6.3	2.6	3.1	.6	.7	.1	.2	84.0	100	8.7

FNT FLINT, MI

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 2 / DAY

STATION NUMBER: 14826

NO. OBS.: 7760

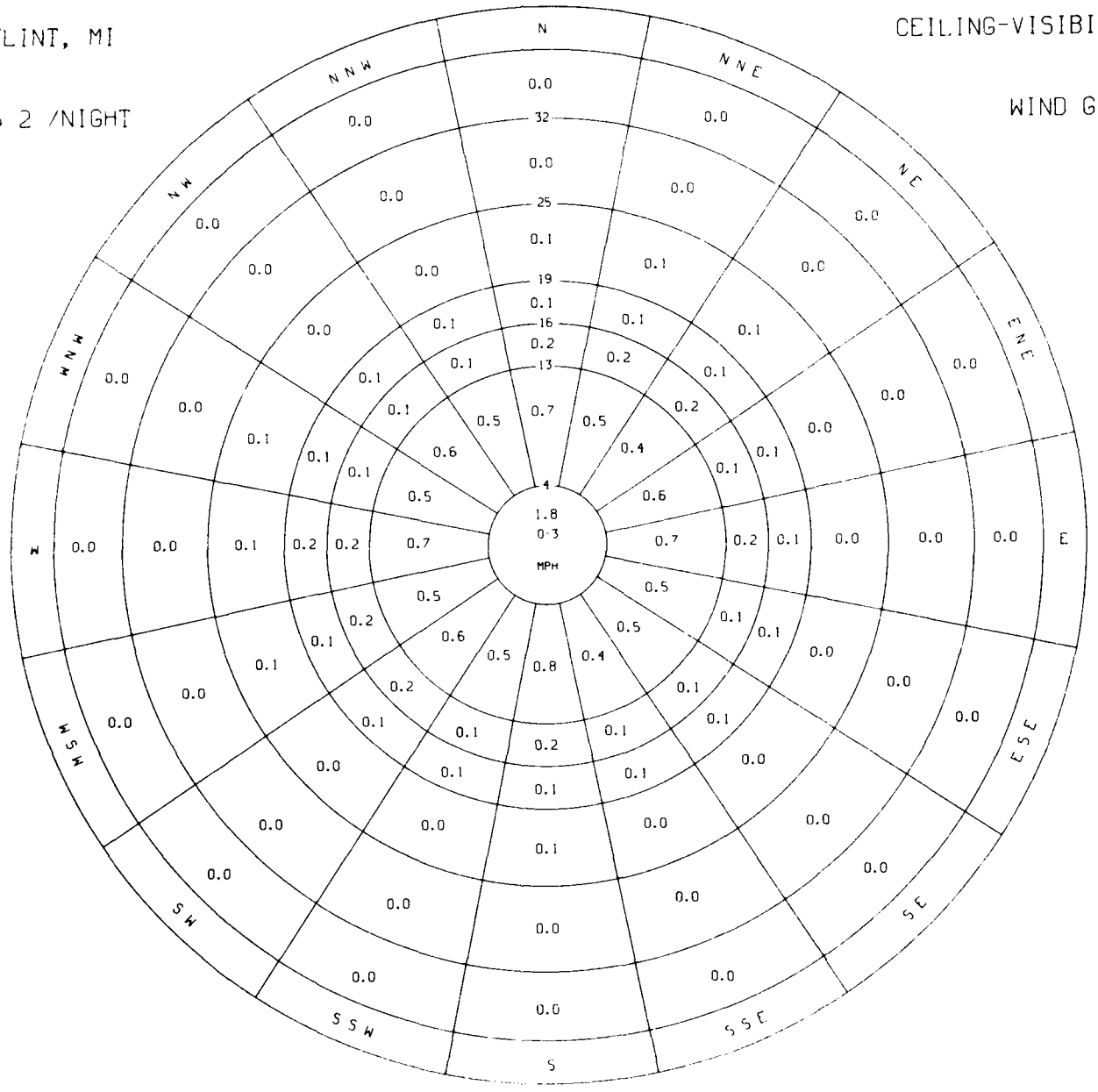
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.7	4.3	.2	1.5	.2	1.2	.1	.5	.0	.1	.0	.0	1.3	8.0	11.7
NNE	.0	.1	.5	3.0	.2	1.0	.1	.7	.1	.4	.0	.1	.0	.0	.9	5.3	12.1
NE	.0	.2	.4	2.5	.2	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.7	4.5	11.2
ENE	.0	.2	.5	3.0	.2	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.8	5.1	11.0
E	.1	.5	.6	3.6	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.9	5.8	10.1
ESE	.1	.4	.5	2.9	.1	.9	.1	.5	.1	.3	.0	.0	.0	.0	.8	5.0	10.5
SE	.1	.4	.4	2.7	.2	.9	.1	.6	.0	.2	.0	.0	.0	.0	.8	4.8	10.5
SSE	.1	.3	.5	2.8	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.8	4.8	10.8
S	.1	.6	.8	4.8	.2	1.2	.2	1.0	.1	.6	.0	.1	.0	.0	1.4	8.3	10.9
SSW	.1	.4	.5	3.4	.1	.9	.1	.5	.1	.4	.0	.0	.0	.0	.9	5.6	10.8
SW	.1	.5	.7	4.0	.2	1.0	.2	.9	.0	.3	.0	.1	.0	.1	1.1	6.9	11.2
WSW	.1	.4	.6	3.8	.2	1.4	.2	1.1	.1	.6	.1	.3	.0	.1	1.3	7.7	12.6
W	.1	.4	.7	4.0	.2	1.4	.2	1.5	.2	1.2	.1	.4	.0	.1	1.5	9.0	13.1
WNW	.0	.3	.5	2.8	.2	1.3	.1	.9	.1	.6	.0	.2	.0	.0	1.0	6.0	12.5
NW	.1	.3	.5	2.9	.2	1.0	.1	.7	.1	.4	.0	.1	.0	.0	.9	5.4	11.6
NNW	.0	.2	.5	3.3	.1	.9	.1	.6	.0	.3	.0	.1	.0	.0	.9	5.4	11.0
CALM	.4	2.4													.4	2.4	
TOTAL	1.3	8.1	8.8	53.7	2.8	17.4	2.0	12.3	1.1	6.7	.3	1.6	.0	.3	16.3	100	11.2

FNT FLINT, MI

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 2 / NIGHT

STATION NUMBER: 14826

NO. OBS.: 6404

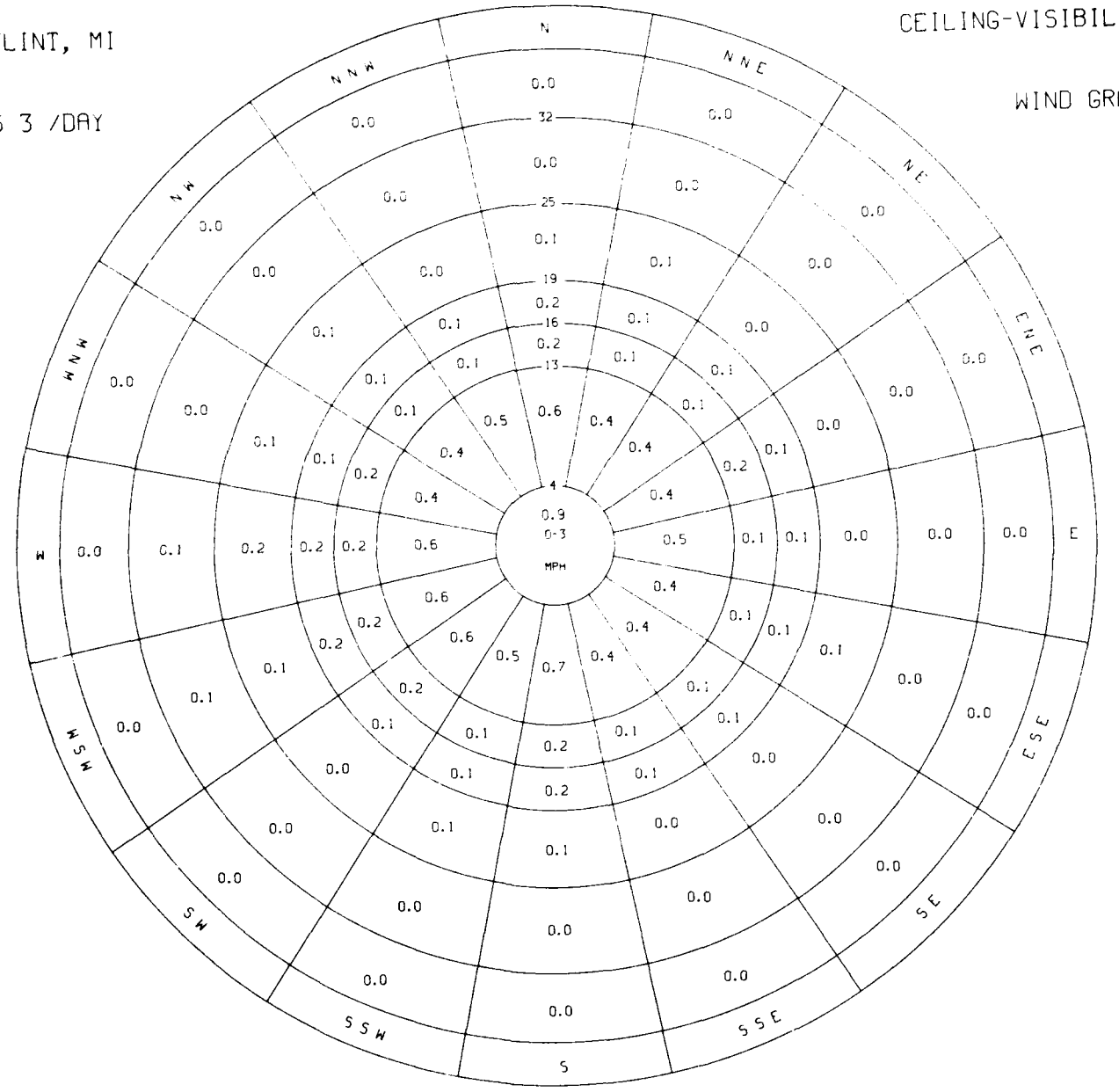
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.7	4.5	.2	1.4	.1	.9	.1	.4	.0	.0	.0	.0	1.2	7.5	11.1
NNE	.0	.3	.5	2.9	.2	1.1	.1	.9	.1	.4	.0	.1	.0	.0	.9	5.6	12.0
NE	.0	.3	.4	2.8	.2	1.0	.1	.7	.1	.3	.0	.0	.0	.0	.8	5.1	11.2
ENE	.1	.4	.6	3.5	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.9	5.7	10.5
E	.1	.6	.7	4.4	.2	1.0	.1	.5	.0	.2	.0	.0	.0	.0	1.1	6.7	9.6
ESE	.1	.5	.5	2.9	.1	.7	.1	.4	.0	.2	.0	.1	.0	.0	.8	4.8	10.3
SE	.1	.7	.5	3.1	.1	.6	.1	.3	.0	.1	.0	.0	.0	.0	.8	4.9	9.3
SSE	.1	.5	.4	2.8	.1	.7	.1	.3	.0	.1	.0	.0	.0	.0	.7	4.5	9.5
S	.1	.7	.8	4.7	.2	1.1	.1	.8	.1	.6	.0	.1	.0	.0	1.3	8.0	10.4
SSW	.1	.4	.5	3.0	.1	.8	.1	.5	.0	.2	.0	.1	.0	.0	.8	5.0	10.6
SW	.1	.6	.6	3.8	.2	1.1	.1	.8	.0	.3	.0	.1	.0	.1	1.1	6.8	10.8
WSW	.1	.4	.5	3.4	.2	1.2	.1	.9	.1	.4	.0	.2	.0	.1	1.1	6.6	11.9
W	.1	.6	.7	4.5	.2	1.3	.2	1.1	.1	.7	.0	.3	.0	.0	1.4	8.5	11.9
WNW	.0	.3	.5	2.9	.1	.9	.1	.8	.1	.4	.0	.2	.0	.0	.9	5.5	12.4
NW	.1	.5	.6	3.6	.1	.9	.1	.6	.0	.2	.0	.0	.0	.0	.9	5.8	10.3
NNW	.0	.3	.5	3.0	.1	.7	.1	.6	.0	.2	.0	.1	.0	.0	.8	4.9	10.9
CALM	.6	4.0													.6	4.0	
TOTAL	1.8	11.6	8.9	55.6	2.3	15.4	1.7	10.8	.8	5.1	.2	1.2	.0	.3	16.0	100	10.4

FNT FLINT, MI

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 3 / DAY

STATION NUMBER: 14826

NO. OBS.: 6769

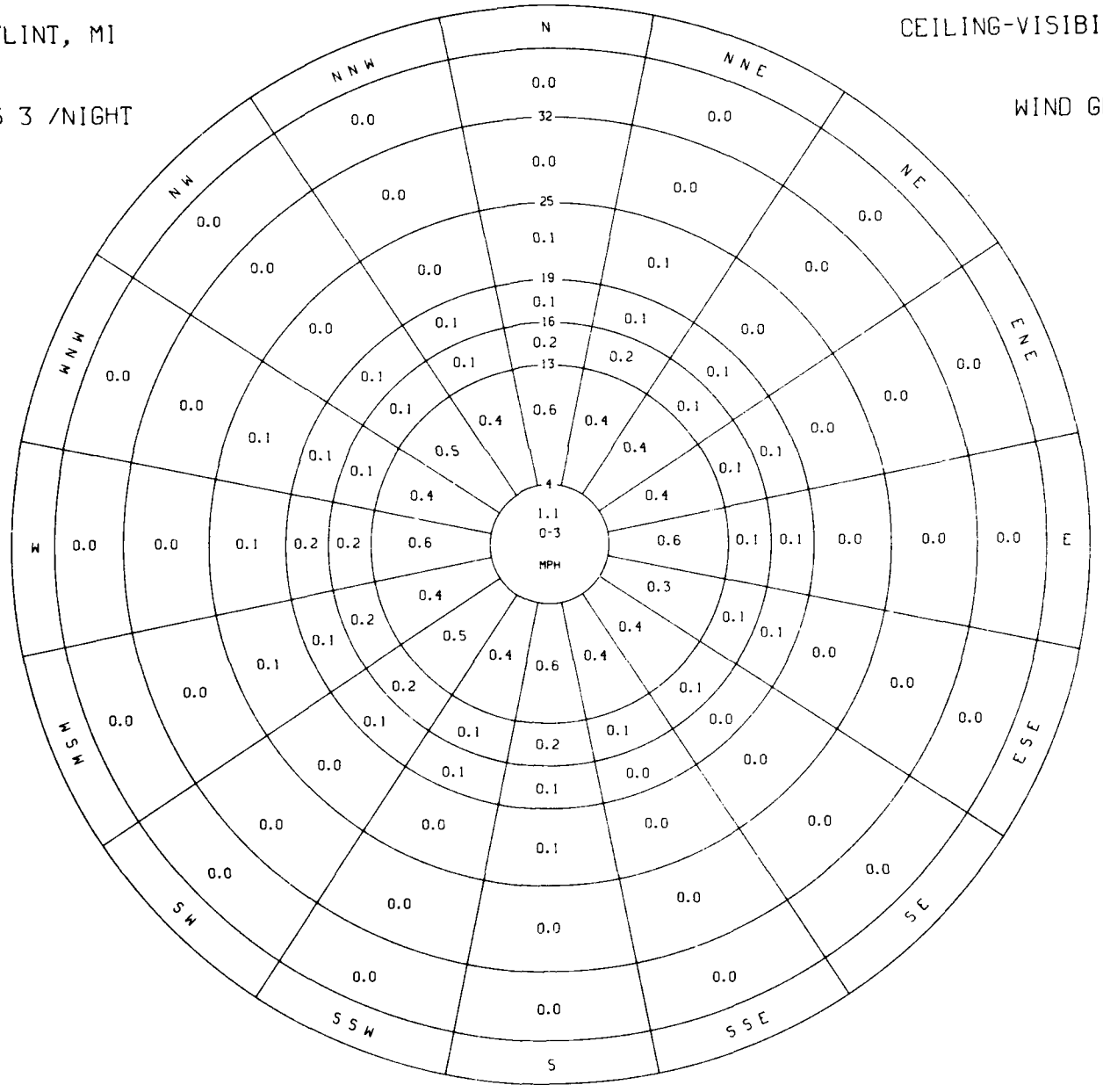
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.6	4.2	.2	1.5	.2	1.3	.1	.5	.0	.1	.0	.0	1.1	7.9	11.7
NNE	.0	.1	.4	3.0	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.8	5.3	12.1
NE	.0	.2	.4	2.5	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.6	4.4	11.2
ENE	.0	.2	.4	3.1	.2	1.1	.1	.5	.0	.2	.0	.0	.0	.0	.7	5.1	11.1
E	.1	.5	.5	3.4	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	.8	5.5	10.3
ESE	.1	.4	.4	2.8	.1	.9	.1	.5	.1	.4	.0	.0	.0	.0	.7	5.0	10.7
SE	.1	.4	.4	2.7	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.7	4.8	10.7
SSE	.0	.3	.4	2.6	.1	1.0	.1	.5	.0	.3	.0	.0	.0	.0	.7	4.8	11.0
S	.1	.5	.7	4.8	.2	1.3	.2	1.2	.1	.6	.0	.1	.0	.0	1.2	8.5	11.2
SSW	.0	.2	.5	3.3	.1	.9	.1	.5	.1	.4	.0	.0	.0	.0	.8	5.5	11.4
SW	.1	.4	.6	4.1	.2	1.1	.1	1.0	.0	.3	.0	.2	.0	.0	1.0	7.1	11.4
WSW	.0	.3	.6	3.9	.2	1.6	.2	1.2	.1	.6	.1	.4	.0	.1	1.2	8.1	12.8
W	.1	.4	.6	4.0	.2	1.5	.2	1.7	.2	1.3	.1	.4	.0	.0	1.3	9.3	13.2
WNW	.0	.2	.4	2.9	.2	1.4	.1	.9	.1	.6	.0	.2	.0	.0	.9	6.2	12.7
NW	.0	.3	.4	3.0	.1	1.0	.1	.7	.1	.4	.0	.1	.0	.0	.8	5.5	11.6
NNW	.0	.2	.5	3.2	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.7	5.2	11.0
CALM	.3	1.8													.3	1.8	
TOTAL	.9	6.6	7.6	53.3	2.6	18.2	1.9	13.2	1.0	6.9	.2	1.6	.0	.2	14.2	100	11.5

FNT FLINT, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 3 / NIGHT

STATION NUMBER: 14826

NO. OBS.: 5253

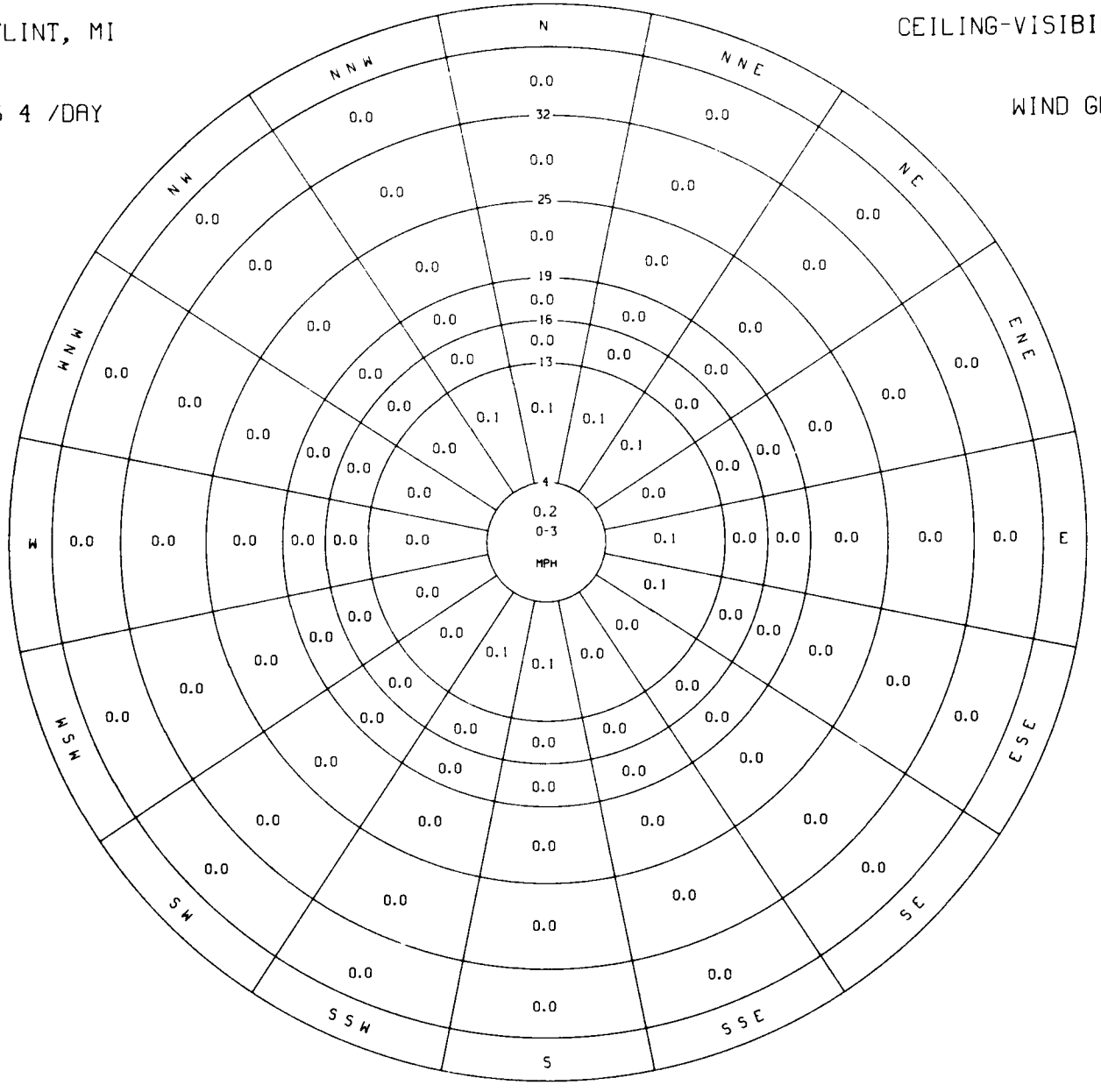
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.6	4.3	.2	1.5	.1	1.0	.1	.4	.0	.0	.0	.0	1.0	7.6	11.4
NNE	.0	.2	.4	2.8	.2	1.2	.1	1.0	.1	.4	.0	.1	.0	.0	.8	5.8	12.3
NE	.0	.3	.4	2.8	.1	1.1	.1	.7	.0	.2	.0	.0	.0	.0	.7	5.1	11.3
ENE	.0	.4	.4	3.3	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.7	5.5	10.8
E	.1	.4	.6	4.3	.1	1.0	.1	.6	.0	.2	.0	.0	.0	.0	.9	6.6	10.0
ESE	.1	.4	.3	2.6	.1	.8	.1	.5	.0	.3	.0	.1	.0	.0	.6	4.6	11.0
SE	.1	.5	.4	3.0	.1	.7	.0	.4	.0	.1	.0	.0	.0	.0	.6	4.7	9.9
SSE	.0	.4	.4	2.7	.1	.9	.0	.4	.0	.1	.0	.0	.0	.0	.6	4.4	10.0
S	.1	.7	.6	4.5	.2	1.3	.1	.9	.1	.7	.0	.1	.0	.0	1.1	8.1	10.9
SSW	.0	.3	.4	3.0	.1	.9	.1	.6	.0	.2	.0	.1	.0	.0	.7	5.2	11.1
SW	.1	.5	.5	4.0	.2	1.3	.1	1.0	.0	.3	.0	.1	.0	.1	1.0	7.3	11.3
WSW	.0	.3	.4	3.4	.2	1.4	.1	1.1	.1	.5	.0	.2	.0	.1	.9	7.1	12.6
W	.0	.4	.6	4.4	.2	1.5	.2	1.3	.1	.9	.0	.3	.0	.1	1.2	8.8	12.7
WNW	.0	.2	.4	2.9	.1	1.0	.1	.9	.1	.5	.0	.2	.0	.1	.8	5.7	12.9
NW	.0	.3	.5	3.7	.1	1.0	.1	.7	.0	.2	.0	.1	.0	.0	.8	6.0	10.9
NNW	.0	.3	.4	3.0	.1	.9	.1	.7	.0	.2	.0	.1	.0	.0	.7	5.1	11.0
CALM	.3	2.4													.3	2.4	
TOTAL	1.1	8.2	7.2	54.7	2.3	17.5	1.6	12.4	.7	5.5	.2	1.4	.0	.3	13.1	100	11.1

FNT FLINT, MI

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 4 / DAY

STATION NUMBER: 14826

NO. OBS.: 679

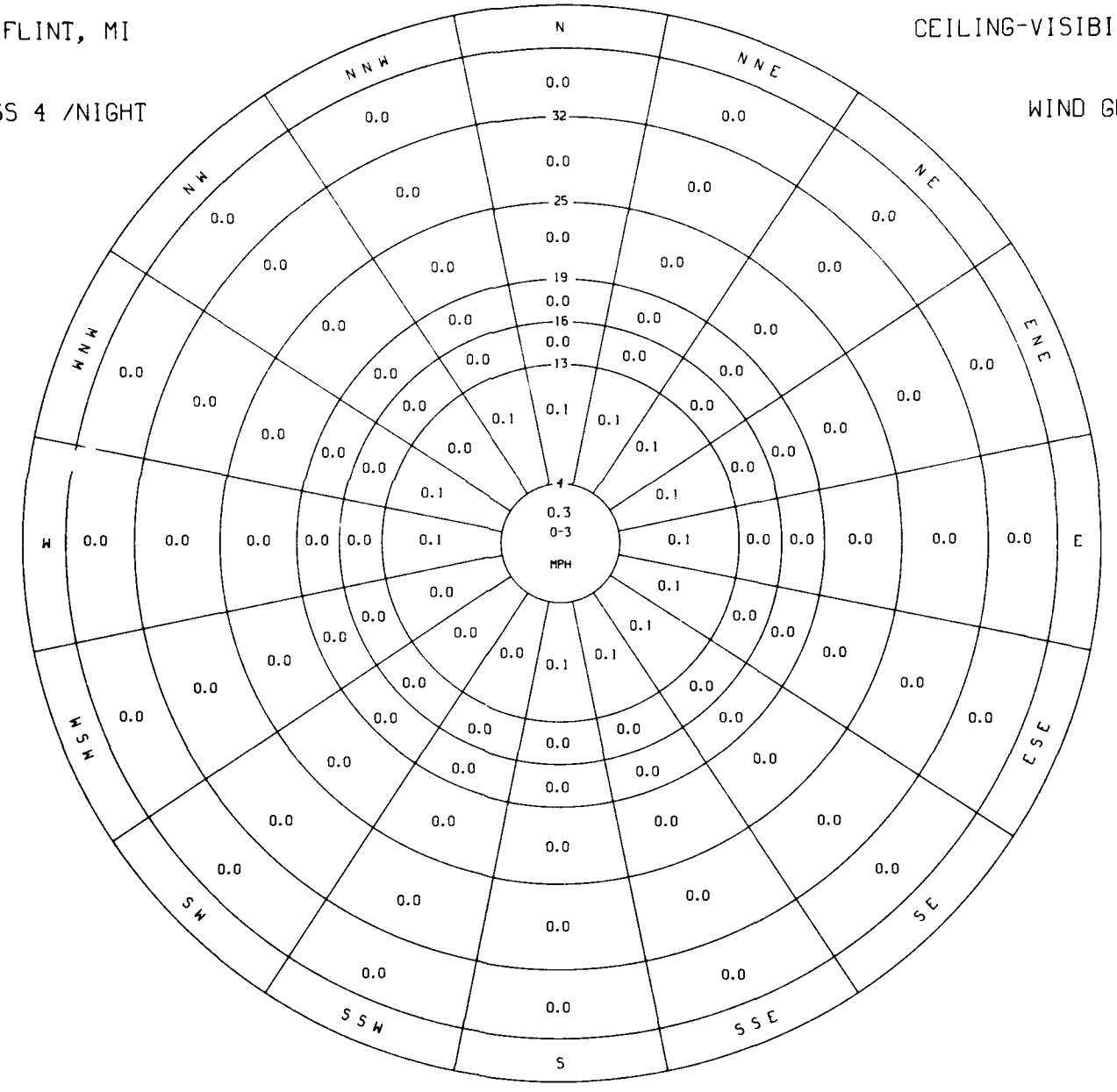
DIR	SPEED GROUPS (MPH)																TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.1	6.2	.0	1.8	.0	.7	.0	.7	.0	.3	.0	.0	.1	10.2	11.6
NNE	.0	.0	.1	3.8	.0	1.6	.0	.9	.0	.4	.0	.1	.0	.0	.1	6.9	12.2
NE	.0	.6	.1	4.1	.0	1.0	.0	.9	.0	.1	.0	.0	.0	.0	.1	6.8	10.4
ENE	.0	.6	.0	2.8	.0	1.5	.0	.6	.0	.3	.0	.0	.0	.0	.1	5.7	11.0
E	.0	.9	.1	5.6	.0	1.2	.0	.6	.0	.1	.0	.0	.0	.0	.1	8.4	9.4
ESE	.0	.7	.1	3.5	.0	.9	.0	.4	.0	.1	.0	.0	.0	.0	.1	5.7	9.6
SE	.0	.3	.0	2.4	.0	1.0	.0	.0	.0	.3	.0	.0	.0	.0	.1	4.0	10.3
SSE	.0	.1	.0	3.4	.0	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.1	5.2	9.9
S	.0	.3	.1	4.3	.0	.9	.0	.0	.0	.1	.0	.1	.0	.0	.1	5.7	9.9
SSW	.0	1.0	.1	3.5	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	5.4	8.3
SW	.0	.9	.0	3.2	.0	.4	.0	.7	.0	.4	.0	.0	.0	.0	.1	5.7	10.1
WSW	.0	.6	.0	3.1	.0	.1	.0	.1	.0	.9	.0	.0	.0	.1	.1	5.0	10.7
W	.0	.3	.0	3.1	.0	.6	.0	.3	.0	.9	.0	.1	.0	.1	.1	5.4	12.9
WNW	.0	.4	.0	2.5	.0	.7	.0	.7	.0	.3	.0	.1	.0	.0	.1	4.9	11.6
NW	.0	.4	.0	2.5	.0	.7	.0	.3	.0	.6	.0	.3	.0	.0	.1	4.9	11.4
NNW	.0	.0	.1	4.1	.0	.7	.0	.7	.0	.6	.0	.4	.0	.0	.1	6.6	12.5
CALM	.0	3.4													.0	3.4	
TOTAL	.2	11.0	.8	58.2	.2	14.7	.1	8.1	.1	6.0	.0	1.6	.0	.3	1.4	100	10.4

FNT FLINT, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 4 / NIGHT

STATION NUMBER: 14826

NO. OBS.: 688

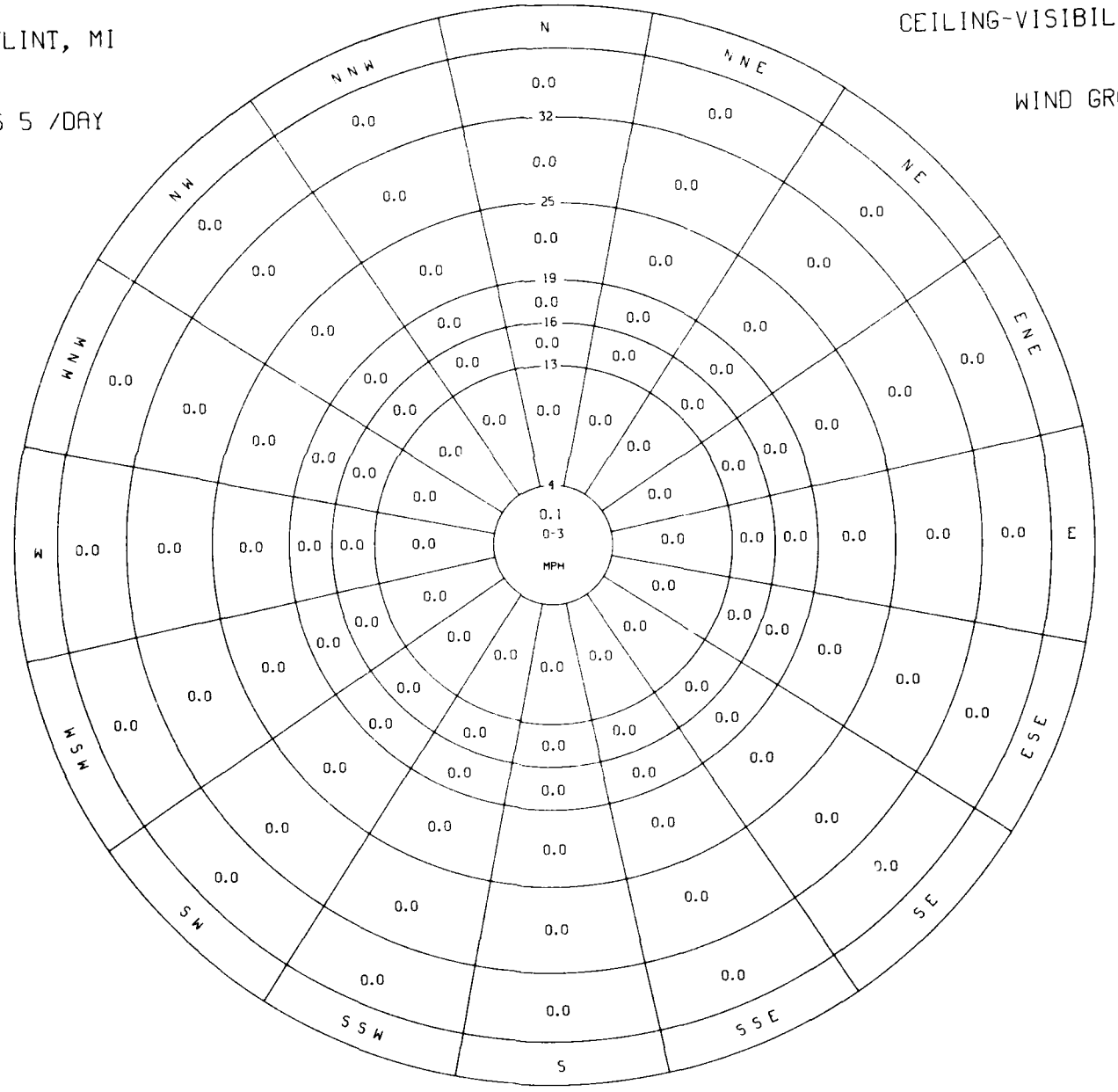
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.4	.1	6.8	.0	.7	.0	.4	.0	.6	.0	.0	.0	.0	.2	9.0	9.8
NNE	.0	.9	.1	3.8	.0	.4	.0	.4	.0	.7	.0	.0	.0	.0	.1	6.3	10.0
NE	.0	.3	.1	3.8	.0	.7	.0	.3	.0	1.0	.0	.0	.0	.0	.1	6.1	11.4
ENE	.0	.4	.1	4.9	.0	1.2	.0	.7	.0	.3	.0	.0	.0	.0	.1	7.6	10.4
E	.0	.6	.1	5.4	.0	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.1	7.8	9.1
ESE	.0	.7	.1	5.1	.0	.6	.0	.1	.0	.1	.0	.0	.0	.0	.1	6.7	8.8
SE	.0	1.0	.1	4.2	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.1	5.7	7.9
SSE	.0	.7	.1	4.1	.0	.1	.0	.1	.0	.0	.0	.1	.0	.0	.1	5.2	8.2
S	.0	.4	.1	5.7	.0	.4	.0	.4	.0	.3	.0	.0	.0	.0	.1	7.3	8.8
SSW	.0	.9	.0	2.3	.0	.6	.0	.1	.0	.0	.0	.0	.0	.0	.1	3.9	8.2
SW	.0	.6	.0	2.6	.0	.1	.0	.1	.0	.1	.0	.1	.0	.0	.1	3.8	8.7
WSW	.0	.4	.0	2.8	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.1	3.6	7.5
W	.0	.9	.1	4.5	.0	.4	.0	.3	.0	.1	.0	.1	.0	.0	.1	6.4	8.8
WNW	.0	.3	.1	3.5	.0	.3	.0	.3	.0	.4	.0	.3	.0	.0	.1	5.1	10.9
NW	.0	.3	.0	2.9	.0	.4	.0	.0	.0	.3	.0	.0	.0	.0	.1	3.9	9.2
NNW	.0	.1	.1	3.1	.0	.3	.0	.3	.0	.3	.0	.1	.0	.0	.1	4.2	10.9
CALM	.1	7.4													.1	7.4	
TOTAL	.3	16.4	1.1	65.4	.1	8.4	.1	4.2	.1	4.7	.0	.9	.0	.0	1.7	100	8.7

FNT FLINT, MI

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 5 / DAY

STATION NUMBER: 14826

NO. OBS.: 176

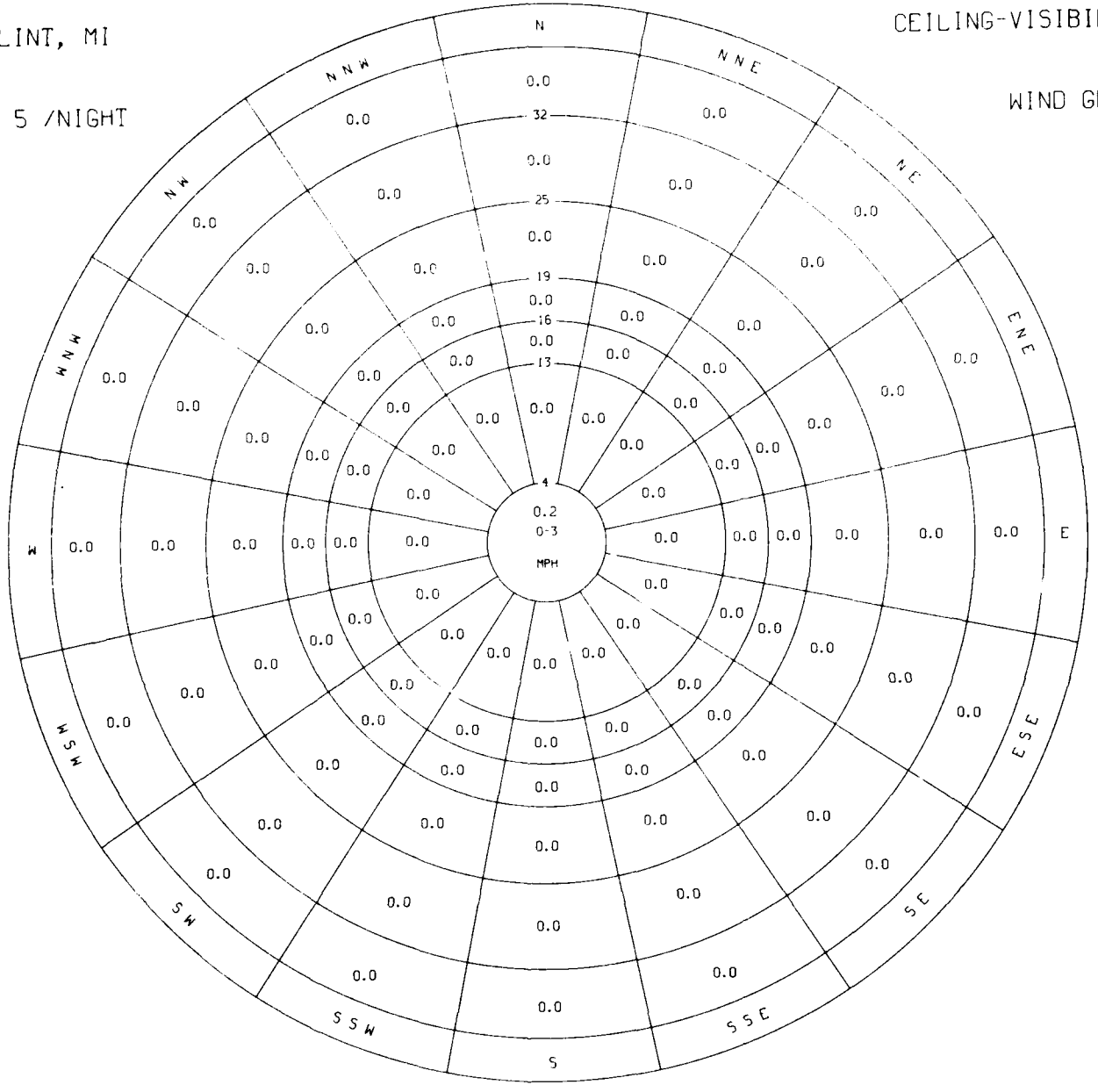
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.8	.0	1.7	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	6.8	15.2
NNE	.0	.6	.0	1.1	.0	1.1	.0	.6	.0	.6	.0	.0	.0	.0	.0	4.0	13.2
NE	.0	.0	.0	1.1	.0	.6	.0	1.1	.0	.6	.0	.0	.0	.0	.0	3.4	13.7
ENE	.0	.6	.0	2.3	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	9.6
E	.0	1.1	.0	4.0	.0	1.1	.0	.0	.0	.0	.0	.6	.0	.0	.0	6.8	9.0
ESE	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	8.7
SE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	3.4	9.8
SSE	.0	.0	.0	7.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	9.0
S	.0	4.0	.0	8.5	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	13.6	7.0
SSW	.0	1.7	.0	4.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	6.6
SW	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	6.6
WSW	.0	.6	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.4
W	.0	2.3	.0	6.8	.0	.6	.0	.0	.0	.6	.0	.6	.0	.6	.0	11.4	10.6
WNW	.0	1.1	.0	.6	.0	.6	.0	.6	.0	.0	.0	.6	.0	.0	.0	3.4	11.8
NW	.0	1.7	.0	1.7	.0	.0	.0	.6	.0	1.1	.0	.6	.0	.0	.0	5.7	11.8
NNW	.0	1.1	.0	3.4	.0	.0	.0	.0	.0	1.1	.0	.6	.0	.0	.0	6.3	11.9
CALM	.0	6.3													.0	6.3	
TOTAL	.1	21.0	.2	56.3	.0	9.7	.0	2.8	.0	5.7	.0	4.0	.0	.6	.4	100	9.3

FNT FLINT, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 5 / NIGHT

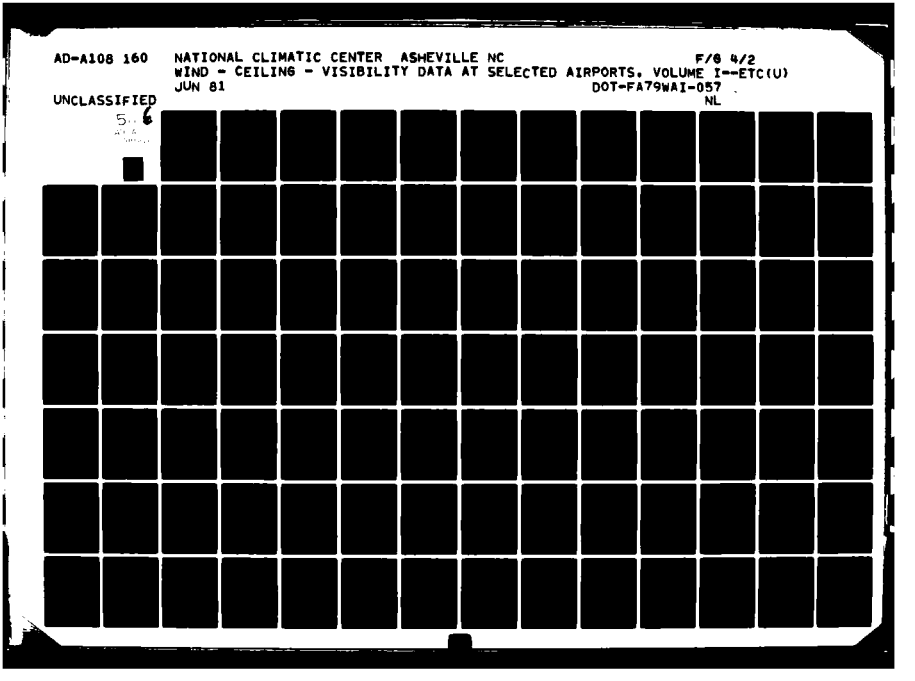
STATION NUMBER: 14826

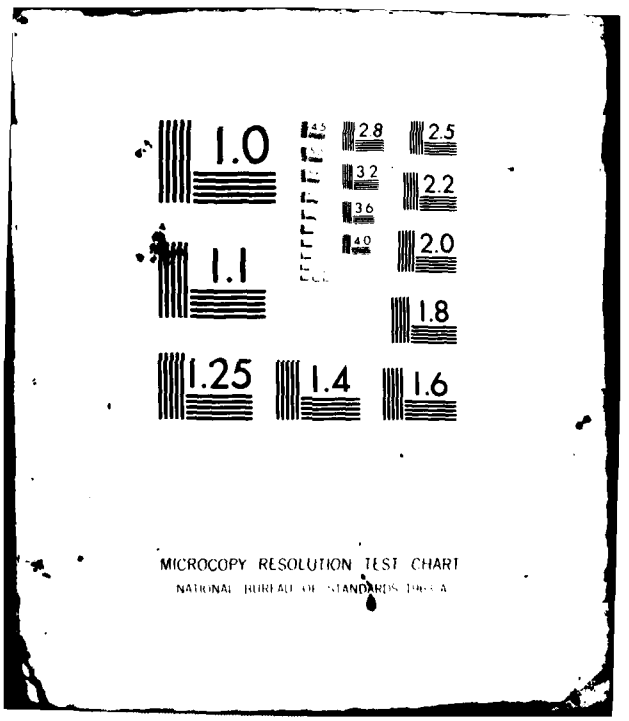
NO. OBS.: 203

DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.0	3.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	8.9
NNE	.0	.0	.0	3.4	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	3.9	10.4
NE	.0	.0	.0	3.4	.0	.0	.0	1.0	.0	.5	.0	.0	.0	.0	.0	4.9	11.0
ENE	.0	.0	.0	5.4	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	6.4	8.9
E	.0	3.4	.0	4.4	.0	.5	.0	.0	.0	.5	.0	.0	.0	.0	.0	8.9	6.2
ESE	.0	1.5	.0	3.4	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	5.9	7.4
SE	.0	3.0	.0	3.0	.0	.0	.0	.5	.0	.5	.0	.0	.0	.0	.0	6.9	7.0
SSE	.0	1.0	.0	2.5	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	4.4	8.9
S	.0	2.0	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.9	6.7
SSW	.0	.5	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	6.3
SW	.0	1.0	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	6.4
WSW	.0	1.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	6.3
W	.0	3.0	.0	4.9	.0	.0	.0	.5	.0	.0	.0	.5	.0	.0	.0	8.9	6.9
WNW	.0	.5	.0	2.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	0	.0	3.4	8.0
NW	.0	2.5	.0	4.4	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	7.4	6.1
NNW	.0	.0	.0	3.0	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	3.4	9.7
CALM	.1	11.3													.1	11.3	
TOTAL	.2	31.0	.3	58.6	.0	3.4	.0	3.4	.0	3.0	.0	.5	.0	.0	.5	100	6.7

AD-A108 160 NATIONAL CLIMATIC CENTER ASHEVILLE NC F/G 4/2
WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS, VOLUME I--ETC(U)
JUN 81 DOT-FA79WAI-057

UNCLASSIFIED NL

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1.4
1.6
1.8
2.0
2.2
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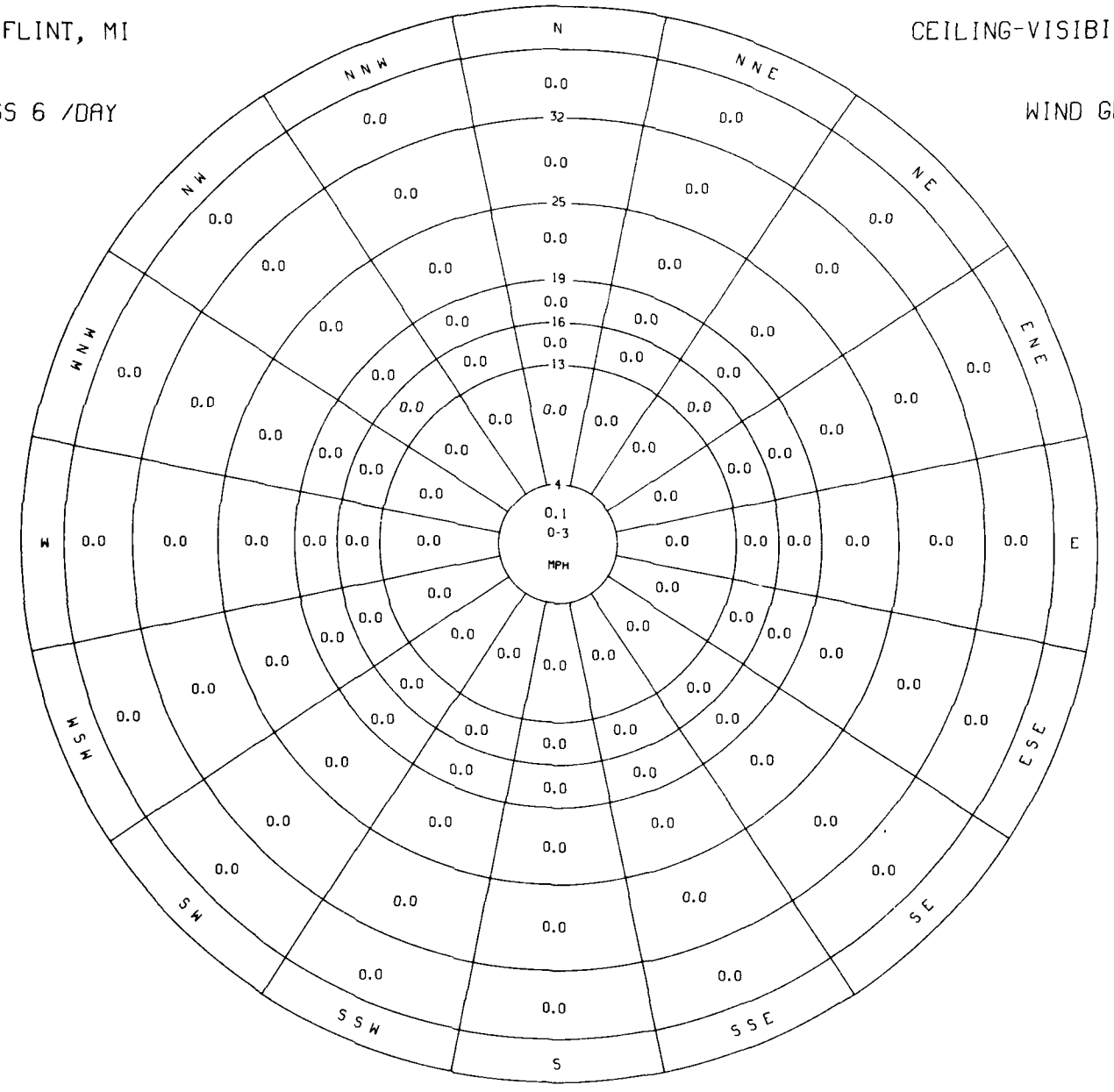
2.8
3.2
3.6
4.0
MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS 1963-A

FNT FLINT, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 6 / DAY

STATION NUMBER: 14826

NO. OBS.: 136

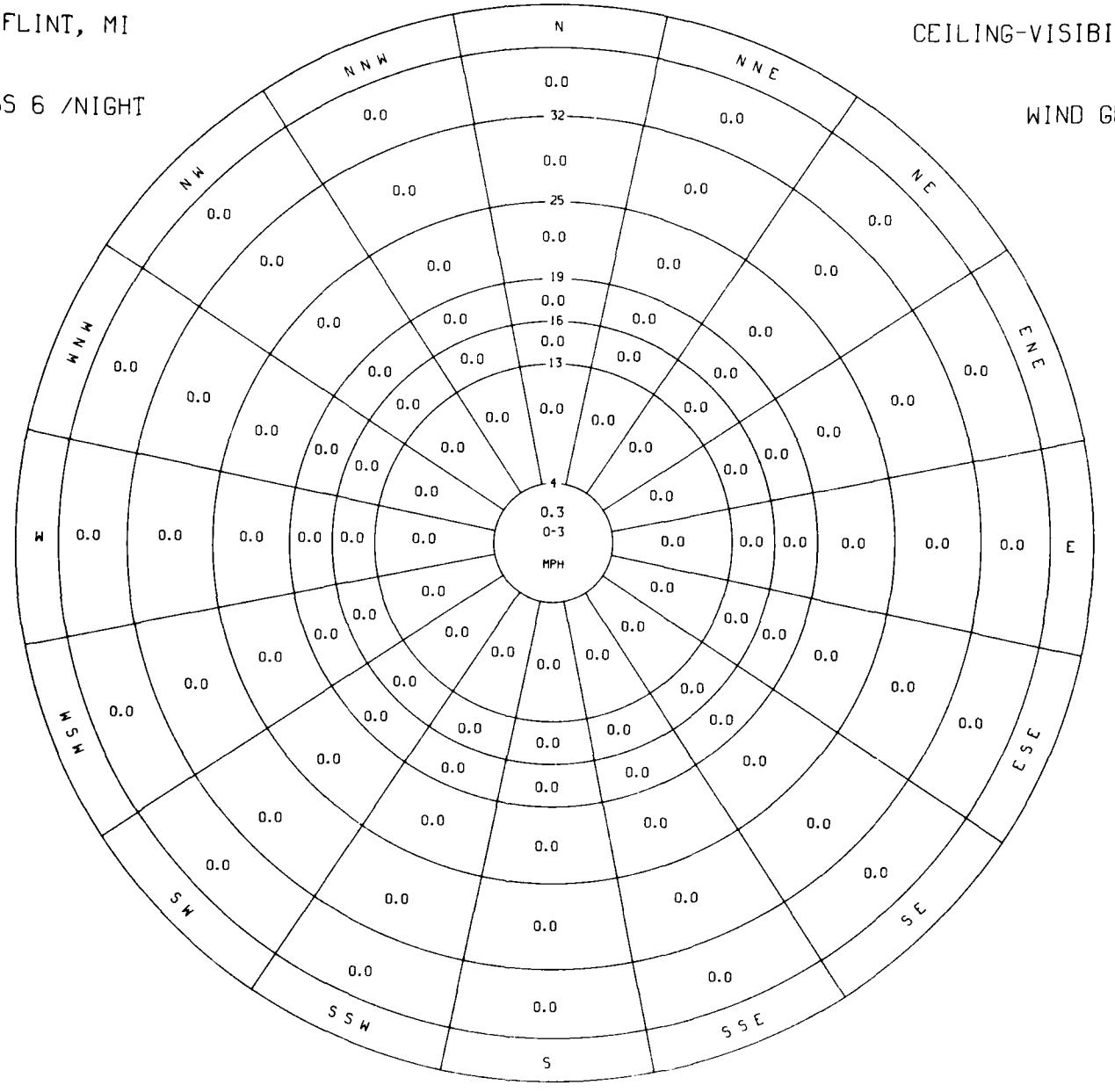
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.7	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.0
NNE	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	5.0
NE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ENE	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	4.7
E	.0	1.5	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	4.8
ESE	.0	1.5	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	5.0
SE	.0	3.7	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	4.5
SSE	.0	.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	6.0
S	.0	.7	.0	5.9	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	7.4	7.4
SSW	.0	5.9	.0	4.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	4.8
SW	.0	2.2	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	7.4	9.2
WSW	.0	2.9	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	6.6	9.3
W	.0	1.5	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	.0	6.6	8.7
WNW	.0	1.5	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	4.5
NW	.0	.7	.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.7
NNW	.0	1.5	.0	5.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.4	4.8
CALM	.1	22.1													.1	22.1	
TOTAL	.1	47.1	.1	49.3	.0	.7	.0	.0	.0	.7	.0	.0	.0	2.2	.3	100	4.9

FNT FLINT, MI

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: FNT FLINT, MI

PERIOD: 1949-1978

CLASS 6 / NIGHT

STATION NUMBER: 14826

NO. OBS.: 260

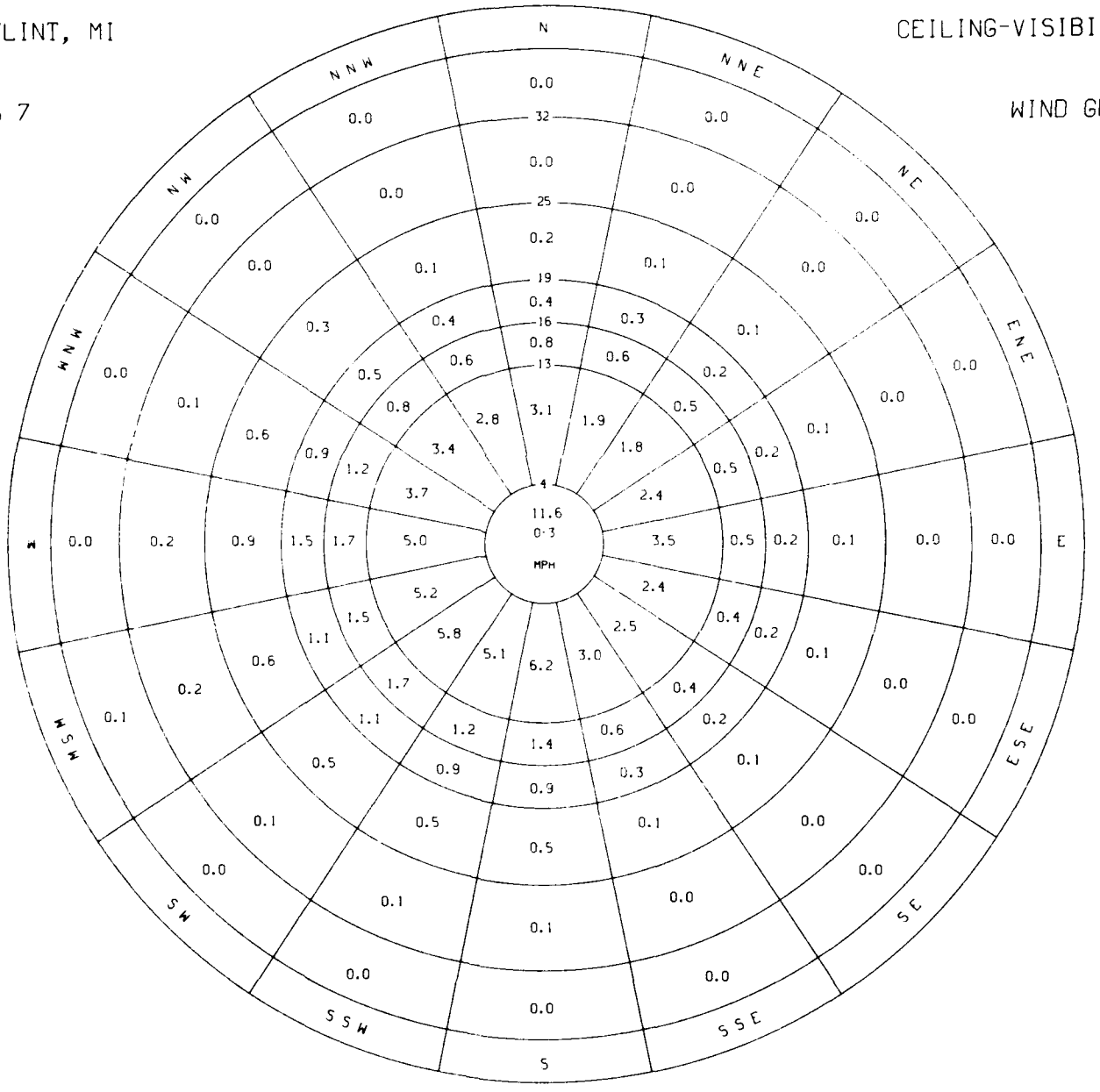
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	2.3	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	4.6	7.1
NNE	.0	.4	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	1.9	10.8
NE	.0	1.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.4
ENE	.0	1.2	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	5.5
E	.0	1.5	.0	2.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	6.3
ESE	.0	1.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	5.0
SE	.0	3.1	.0	1.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	4.7
SSE	.0	2.3	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	3.7
S	.0	2.3	.0	5.4	.0	.4	.0	.0	.0	.4	.0	.0	.0	.0	.1	8.5	6.9
SSW	.0	1.2	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	6.1
SW	.0	3.5	.0	4.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.4	.1	8.1	6.0
WSW	.0	1.5	.0	4.6	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.4
W	.0	3.1	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.7	4.8
WNW	.0	1.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	4.9
NW	.0	2.3	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	5.3
NNW	.0	.8	.0	2.3	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	3.5	7.9
CALM	.1	22.3													.1	22.3	
TOTAL	.3	51.9	.3	45.0	.0	1.2	.0	.0	.0	.8	.0	.8	.0	.4	.6	100	4.6

FNT FLINT, MI

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

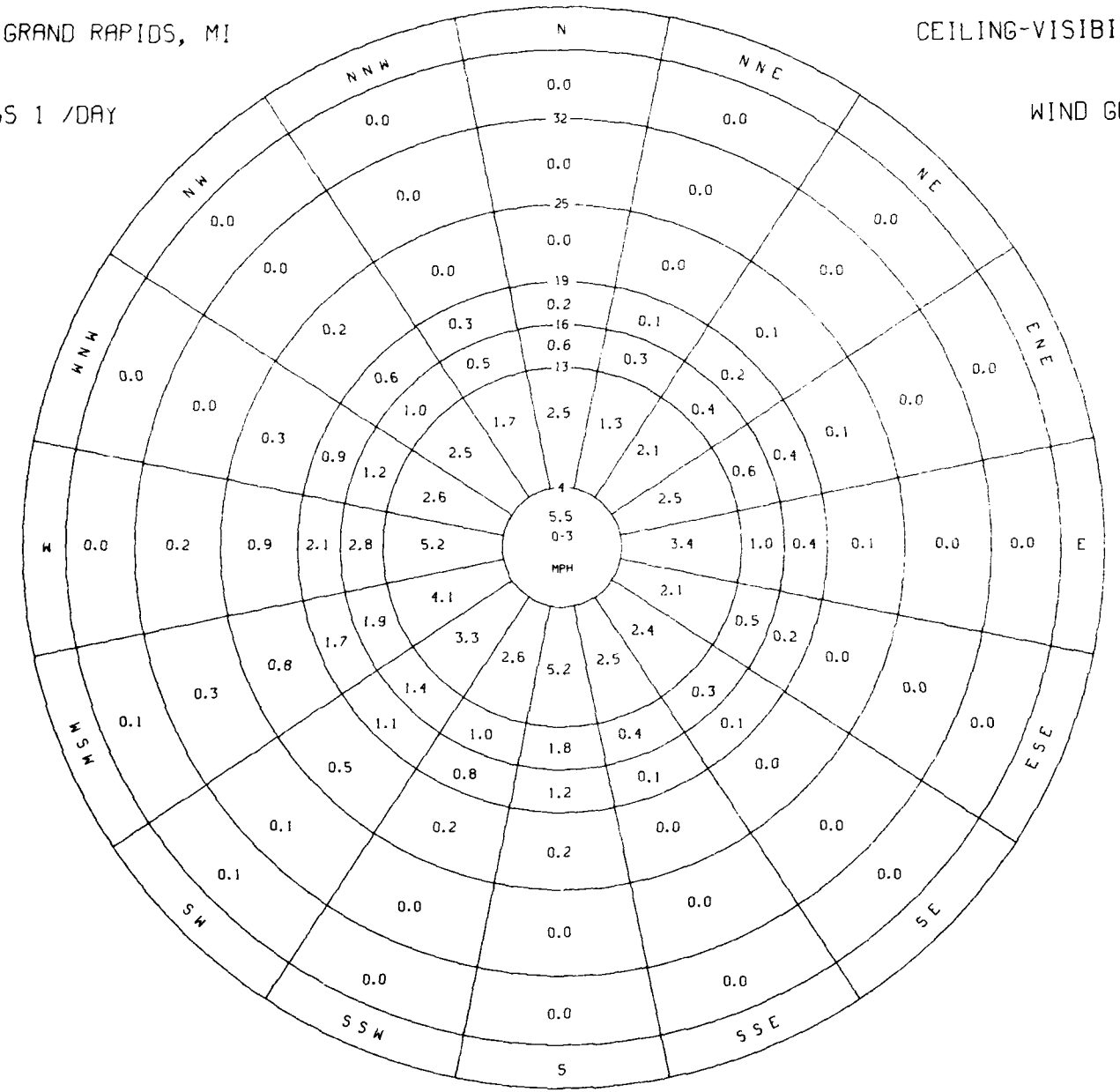


GRR GRAND RAPIDS, MI

CEILING-VISIBILITY

CLASS 1 /DAY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 1 / DAY

STATION NUMBER: 94860

NO. OBS.: 19172

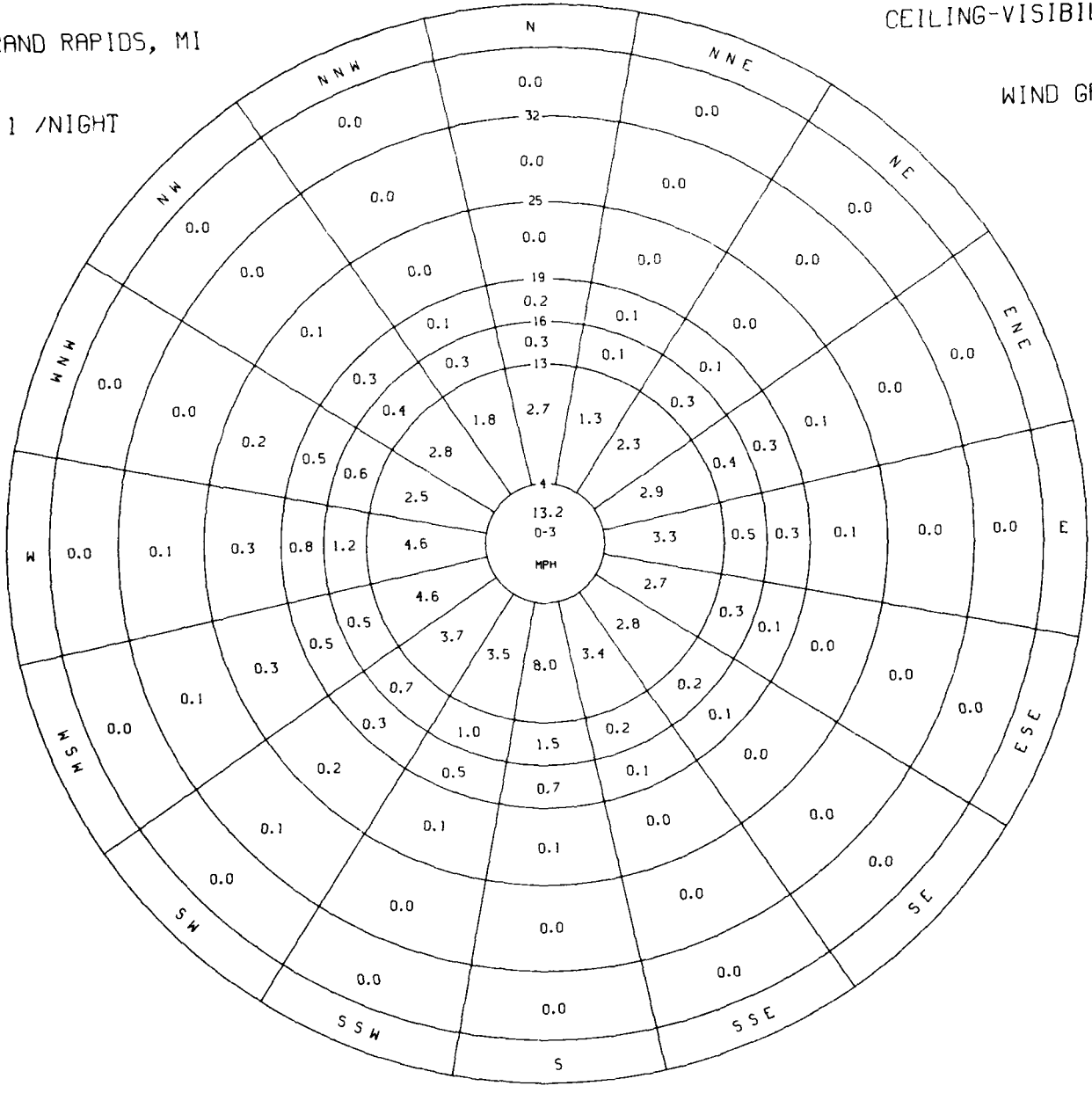
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	2.5	3.1	.6	.7	.2	.3	.0	.0	.0	.0	.0	.0	3.6	4.4	9.4
NNE	.2	.2	1.3	1.6	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.9	2.3	9.0
NE	.2	.2	2.1	2.6	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	3.0	3.6	9.7
ENE	.2	.2	2.5	3.1	.6	.7	.4	.5	.1	.1	.0	.0	.0	.0	3.8	4.7	10.2
E	.3	.3	3.4	4.2	1.0	1.2	.4	.5	.1	.2	.0	.0	.0	.0	5.3	6.4	10.1
ESE	.2	.2	2.1	2.6	.5	.6	.2	.2	.0	.0	.0	.0	.0	.0	3.0	3.7	9.5
SE	.3	.3	2.4	2.9	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	3.1	3.8	8.3
SSE	.3	.4	2.5	3.0	.4	.5	.1	.2	.0	.1	.0	.0	.0	.0	3.4	4.1	8.7
S	.4	.5	5.2	6.4	1.8	2.2	1.2	1.4	.2	.2	.0	.0	.0	.0	8.8	10.7	10.8
SSW	.2	.3	2.6	3.1	1.0	1.2	.8	.9	.2	.2	.0	.0	.0	.0	4.8	5.8	11.6
SW	.2	.3	3.3	4.0	1.4	1.7	1.1	1.4	.5	.6	.1	.2	.1	.1	6.7	8.2	12.5
WSW	.2	.3	4.1	5.0	1.9	2.3	1.7	2.0	.8	.9	.3	.4	.1	.1	9.1	11.0	13.1
W	.3	.3	5.2	6.4	2.8	3.4	2.1	2.6	.9	1.1	.2	.2	.0	.0	11.5	14.0	12.8
WNW	.2	.2	2.6	3.2	1.2	1.4	.9	1.1	.3	.4	.0	.0	.0	.0	5.3	6.4	12.1
NW	.1	.2	2.5	3.1	1.0	1.2	.6	.7	.2	.3	.0	.0	.0	.0	4.5	5.5	11.5
NNW	.2	.2	1.7	2.1	.5	.6	.3	.3	.0	.0	.0	.0	.0	.0	2.7	3.3	10.1
CALM	1.8	2.2													1.8	2.2	
TOTAL	5.5	6.7	46.2	56.2	15.5	18.9	10.5	12.8	3.6	4.4	.7	.9	.2	.2	82.2	100	10.9

GRR GRAND RAPIDS, MI

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 1 / NIGHT

STATION NUMBER: 94860

NO. OBS.: 16815

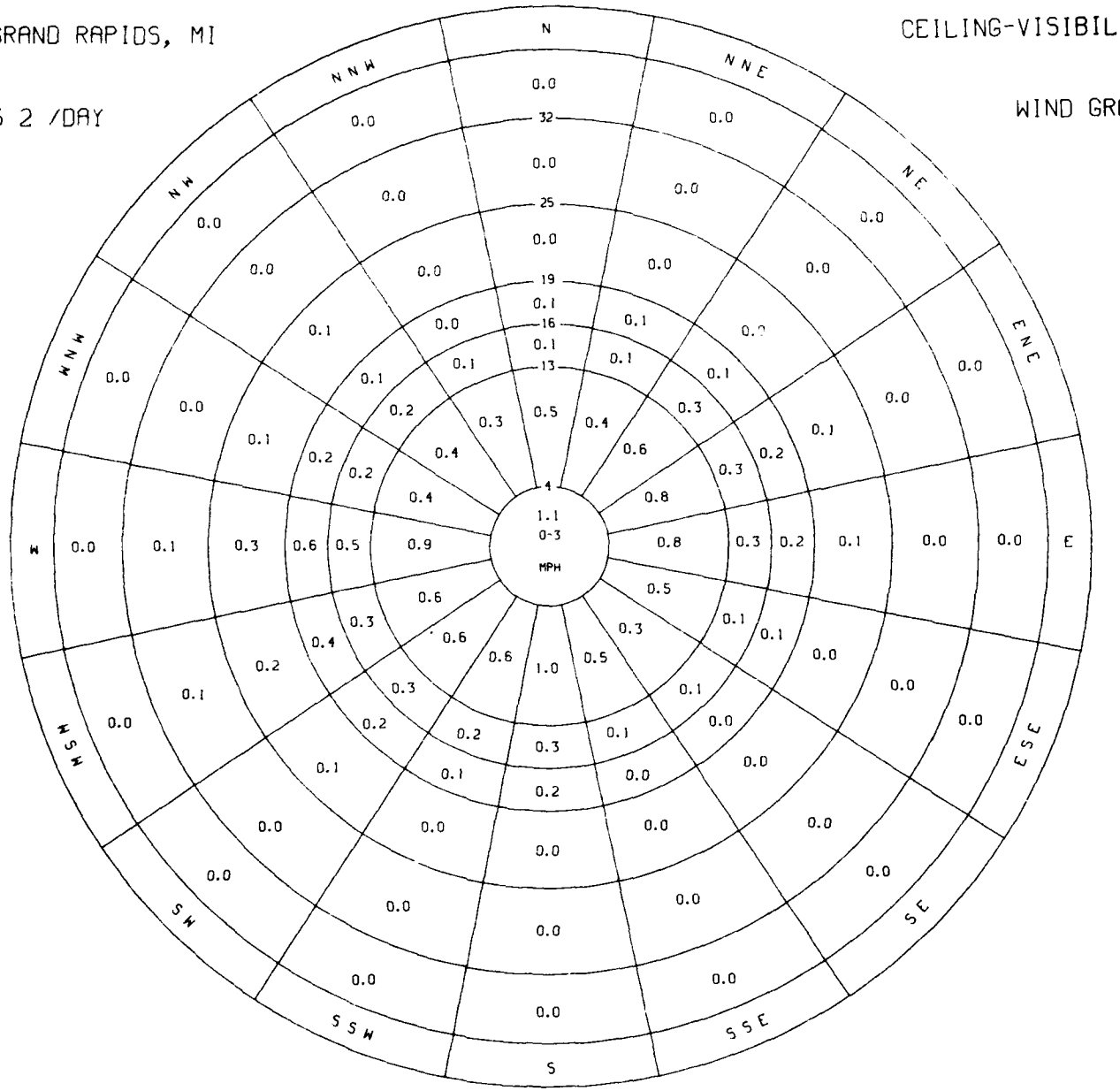
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.6	2.7	3.4	.3	.4	.2	.2	.0	.0	.0	.0	.0	.0	3.8	4.7	8.0
NNE	.3	.4	1.3	1.6	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.9	2.3	7.5
NE	.4	.5	2.3	2.8	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	3.1	3.8	8.1
ENE	.2	.3	2.9	3.5	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.8	4.7	9.0
E	.6	.8	3.3	4.0	.5	.6	.3	.4	.1	.1	.0	.0	.0	.0	4.8	5.9	8.5
ESE	.7	.9	2.7	3.3	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	3.9	4.7	7.6
SE	.8	.9	2.8	3.5	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.9	4.8	7.1
SSE	.7	.8	3.4	4.1	.2	.3	.1	.2	.0	.0	.0	.0	.0	.0	4.4	5.4	7.3
S	.8	1.0	8.0	9.8	1.5	1.8	.7	.9	.1	.2	.0	.0	.0	.0	11.2	13.7	9.2
SSW	.3	.4	3.5	4.3	1.0	1.2	.5	.6	.1	.2	.0	.0	.0	.0	5.5	6.7	10.3
SW	.5	.6	3.7	4.5	.7	.8	.3	.4	.2	.2	.1	.1	.0	.0	5.5	6.7	9.5
WSW	.4	.5	4.6	5.7	.5	.6	.5	.6	.3	.4	.1	.1	.0	.0	6.5	7.9	9.5
W	.3	.4	4.6	5.6	1.2	1.4	.8	1.0	.3	.4	.1	.1	.0	.0	7.3	8.9	10.5
WNW	.2	.3	2.5	3.1	.6	.8	.5	.6	.2	.3	.0	.0	.0	.0	4.1	5.0	10.5
NW	.3	.4	2.8	3.4	.4	.5	.3	.4	.1	.1	.0	.0	.0	.0	3.9	4.7	9.3
NNW	.2	.3	1.8	2.2	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.4	3.0	8.6
CALM	5.9	7.2													5.9	7.2	
TOTAL	13.2	16.1	53.0	64.6	8.7	10.6	5.1	6.2	1.6	2.0	.4	.4	.1	.1	82.0	100	8.4

GRR GRAND RAPIDS, MI

CEILING-VISIBILITY

CLASS 2 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 2 / DAY

STATION NUMBER: 94860

NO. OBS.: 4149

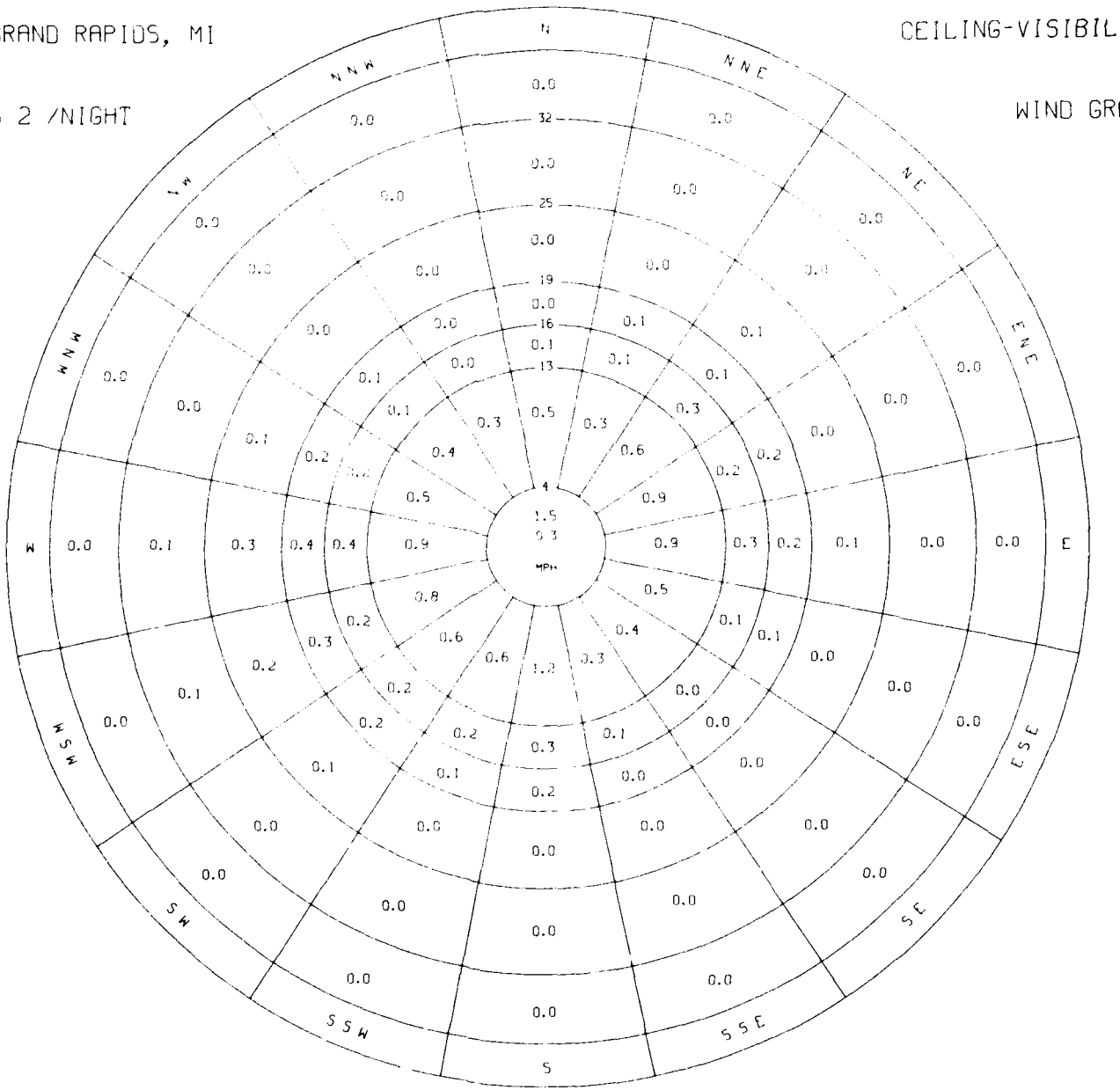
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.5	2.6	.1	.7	.1	.5	.0	.1	.0	.0	.0	.0	.7	4.1	10.3
NNE	.0	.2	.4	2.2	.1	.4	.1	.5	.0	.1	.0	.0	.0	.0	.6	3.4	10.7
NE	.0	.2	.6	3.6	.3	1.4	.1	.8	.0	.3	.0	.0	.0	.0	1.1	6.4	11.2
ENE	.1	.3	.8	4.5	.3	1.9	.2	1.1	.1	.3	.0	.1	.0	.0	1.5	8.2	11.5
E	.1	.3	.8	4.5	.3	1.8	.2	1.3	.1	.4	.0	.1	.0	.0	1.5	8.4	11.7
ESE	.0	.1	.5	2.7	.1	.8	.1	.6	.0	.1	.0	.0	.0	.0	.8	4.3	10.5
SE	.1	.4	.3	1.9	.1	.3	.0	.1	.0	.0	.0	.0	.0	.0	.5	2.7	8.0
SSE	.1	.4	.5	2.6	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.7	3.7	9.2
S	.1	.3	1.0	5.4	.3	1.5	.2	1.1	.0	.2	.0	.0	.0	.0	1.5	8.6	10.7
SSW	.0	.1	.6	3.1	.2	.9	.1	.7	.0	.1	.0	.0	.0	.0	.9	5.0	11.2
SW	.0	.2	.6	3.3	.3	1.6	.2	.9	.1	.8	.0	.1	.0	.1	1.2	6.9	12.9
WSW	.1	.3	.6	3.4	.3	1.8	.4	2.0	.2	1.2	.1	.5	.0	.2	1.7	9.5	14.5
W	.1	.3	.9	5.2	.5	2.7	.6	3.4	.3	1.6	.1	.3	.0	.0	2.4	13.6	13.7
WNW	.0	.1	.4	2.2	.2	1.3	.2	1.3	.1	.6	.0	.1	.0	.0	1.0	5.7	13.4
NW	.0	.2	.4	2.4	.2	.8	.1	.6	.1	.4	.0	.1	.0	.0	.8	4.4	12.0
NNW	.0	.1	.3	1.6	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.5	10.4
CALM	.4	2.5													.4	2.5	
TOTAL	1.1	6.3	9.1	51.2	3.4	18.9	2.7	15.3	1.1	6.4	.3	1.5	.1	.4	17.8	100	11.6

GRR GRAND RAPIDS, MI

CEILING-VISIBILITY

CLASS 2 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 2 / NIGHT

STATION NUMBER: 94860

NO. OBS.: 3695

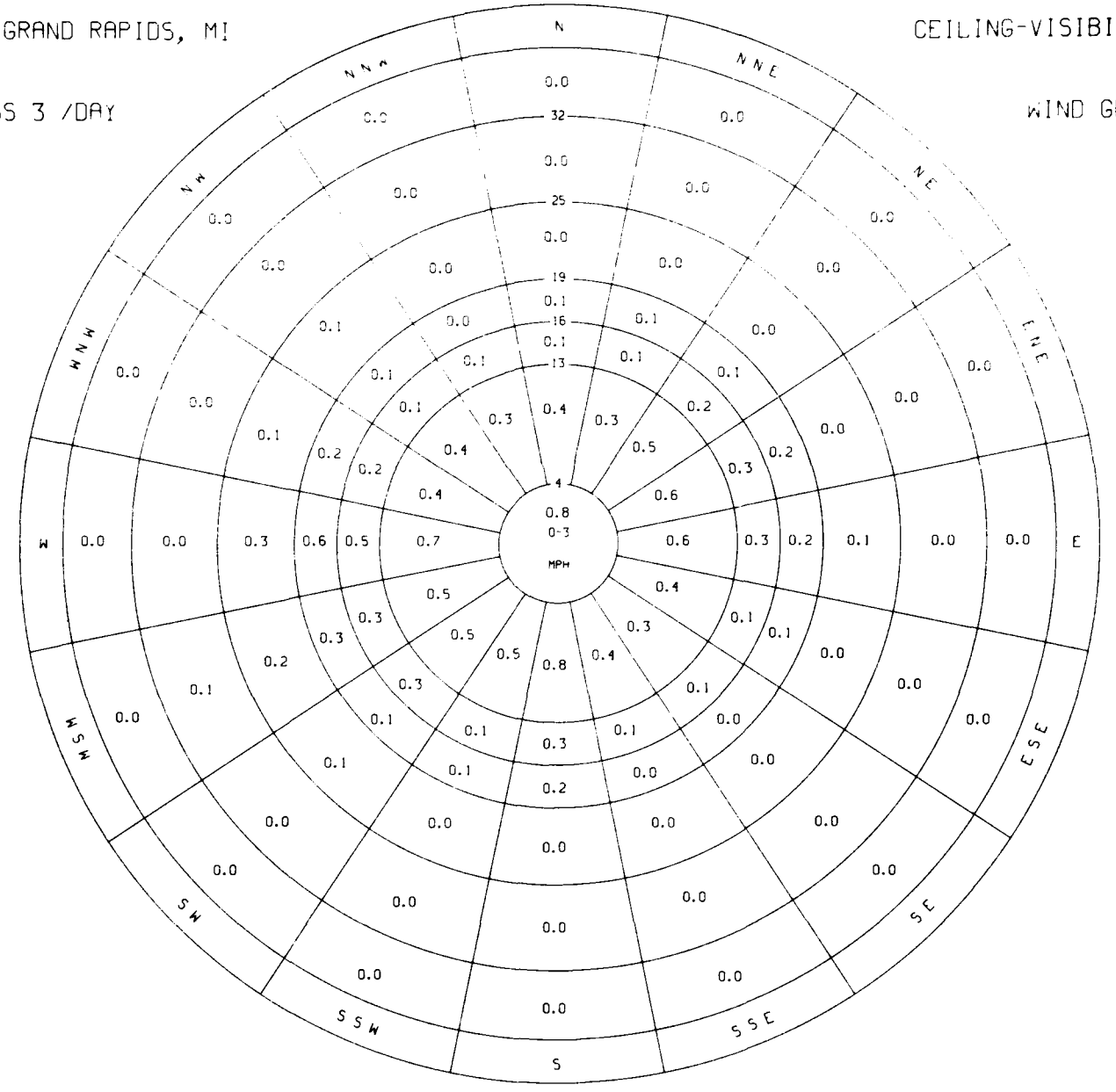
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.5	2.8	.1	.6	.0	.3	.0	.2	.0	.0	.0	.0	.8	4.3	9.6
NNE	.0	.2	.3	1.6	.1	.6	.1	.4	.0	.2	.0	.0	.0	.0	.5	3.0	11.5
NE	.1	.3	.6	3.6	.3	1.6	.1	.8	.1	.3	.0	.0	.0	.0	1.2	6.6	11.3
ENE	.1	.3	.9	4.9	.2	1.4	.2	1.1	.0	.3	.0	.0	.0	.0	1.4	8.0	10.8
E	.1	.5	.9	5.1	.3	1.6	.2	1.3	.1	.4	.0	.0	.0	.0	1.6	8.9	11.0
ESE	.1	.4	.5	3.0	.1	.8	.1	.4	.0	.2	.0	.0	.0	.0	.9	4.8	9.8
SE	.1	.4	.4	2.2	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.5	2.9	7.7
SSE	.0	.2	.3	1.8	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.5	2.5	9.1
S	.1	.4	1.2	6.6	.3	1.5	.2	.9	.0	.1	.0	.0	.0	.0	1.7	9.6	10.0
SSW	.0	.3	.6	3.3	.2	1.1	.1	.7	.0	.1	.0	.0	.0	.0	1.0	5.5	10.9
SW	.0	.2	.6	3.5	.2	1.1	.2	1.2	.1	.5	.0	.3	.0	.0	1.2	6.9	12.3
WSW	.1	.4	.8	4.6	.2	1.3	.3	1.5	.2	1.3	.1	.6	.0	.1	1.8	9.8	13.5
W	.1	.4	.9	5.1	.4	2.3	.4	2.1	.3	1.6	.1	.6	.0	.0	2.2	12.0	13.4
WNW	.0	.1	.5	2.6	.2	1.2	.2	1.0	.1	.6	.0	.1	.0	.0	1.0	5.6	12.9
NW	.0	.1	.4	2.3	.1	.6	.1	.6	.0	.2	.0	.1	.0	.0	.7	3.9	11.2
NNW	.0	.1	.3	1.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.4	1.9	9.4
CALM	.7	3.7													.7	3.7	
TOTAL	1.5	8.4	9.8	54.6	3.0	16.5	2.3	12.6	1.1	6.0	.3	1.7	.0	.2	18.0	100	11.0

GRR GRAND RAPIDS, MI

CEILING-VISIBILITY

CLASS 3 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 3 / DAY

STATION NUMBER: 94860

NO. OBS.: 3461

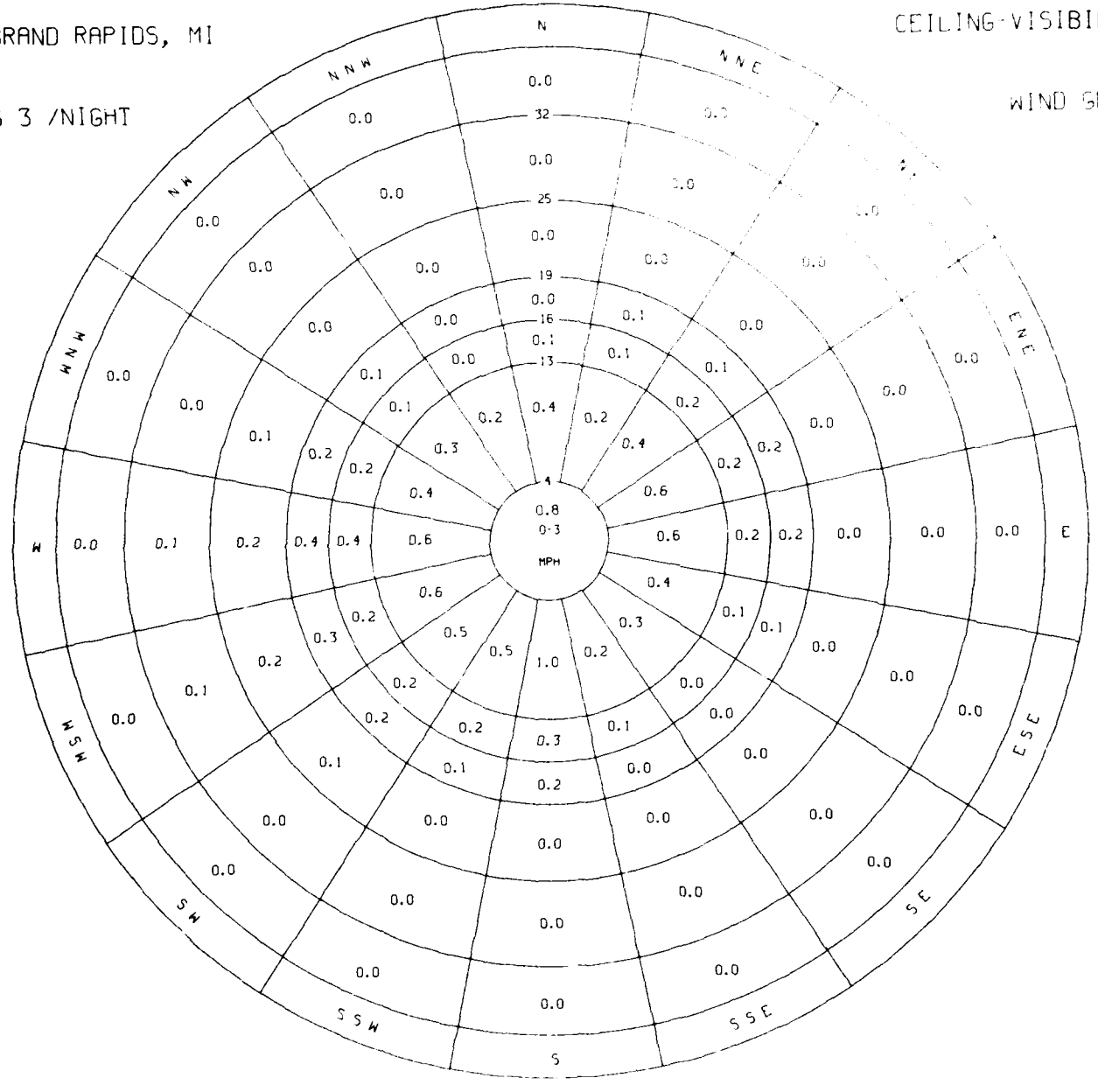
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.4	2.5	.1	.8	.1	.5	.0	.0	.0	.0	.0	.0	.6	4.0	10.2
NNE	.0	.2	.3	2.0	.1	.4	.1	.5	.0	.1	.0	.0	.0	.0	.5	3.3	10.9
NE	.0	.2	.5	3.4	.2	1.5	.1	.9	.0	.3	.0	.0	.0	.0	.9	6.3	11.3
ENE	.0	.2	.6	3.9	.3	1.8	.2	1.2	.0	.3	.0	.1	.0	.0	1.1	7.7	11.9
E	.0	.2	.6	3.9	.3	1.8	.2	1.3	.1	.5	.0	.0	.0	.0	1.1	7.7	12.1
ESE	.0	.1	.4	2.5	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.6	4.1	10.8
SE	.1	.4	.3	1.8	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.4	2.7	8.2
SSE	.0	.3	.4	2.5	.1	.5	.0	.3	.0	.0	.0	.0	.0	.0	.5	3.5	9.3
S	.0	.3	.8	5.3	.3	1.8	.2	1.2	.0	.3	.0	.1	.0	.0	1.3	8.9	11.1
SSW	.0	.1	.5	3.1	.1	.9	.1	.8	.0	.1	.0	.0	.0	.0	.8	5.1	11.6
SW	.0	.2	.5	3.3	.3	1.8	.1	1.0	.1	.9	.0	.1	.0	.1	1.1	7.3	13.1
WSW	.0	.2	.5	3.1	.3	2.1	.3	2.3	.2	1.4	.1	.5	.0	.1	1.4	9.7	14.8
W	.0	.2	.7	4.9	.5	3.1	.6	4.0	.3	1.8	.0	.3	.0	.0	2.1	14.3	14.2
WNW	.0	.1	.4	2.4	.2	1.5	.2	1.5	.1	.7	.0	.1	.0	.0	.9	6.2	13.6
NW	.0	.1	.4	2.6	.1	1.0	.1	.6	.1	.4	.0	.1	.0	.0	.7	4.7	11.9
NNW	.0	.1	.3	1.8	.1	.4	.0	.2	.0	.2	.0	.0	.0	.0	.4	2.7	10.4
CALM	.3	2.0													.3	2.0	
TOTAL	.8	5.3	7.3	49.0	3.0	20.3	2.5	16.7	1.0	7.0	.2	1.4	.0	.3	14.8	100	12.0

GRR GRAND RAPIDS, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 3 / NIGHT

STATION NUMBER: 94860

NO. OBS.: 2861

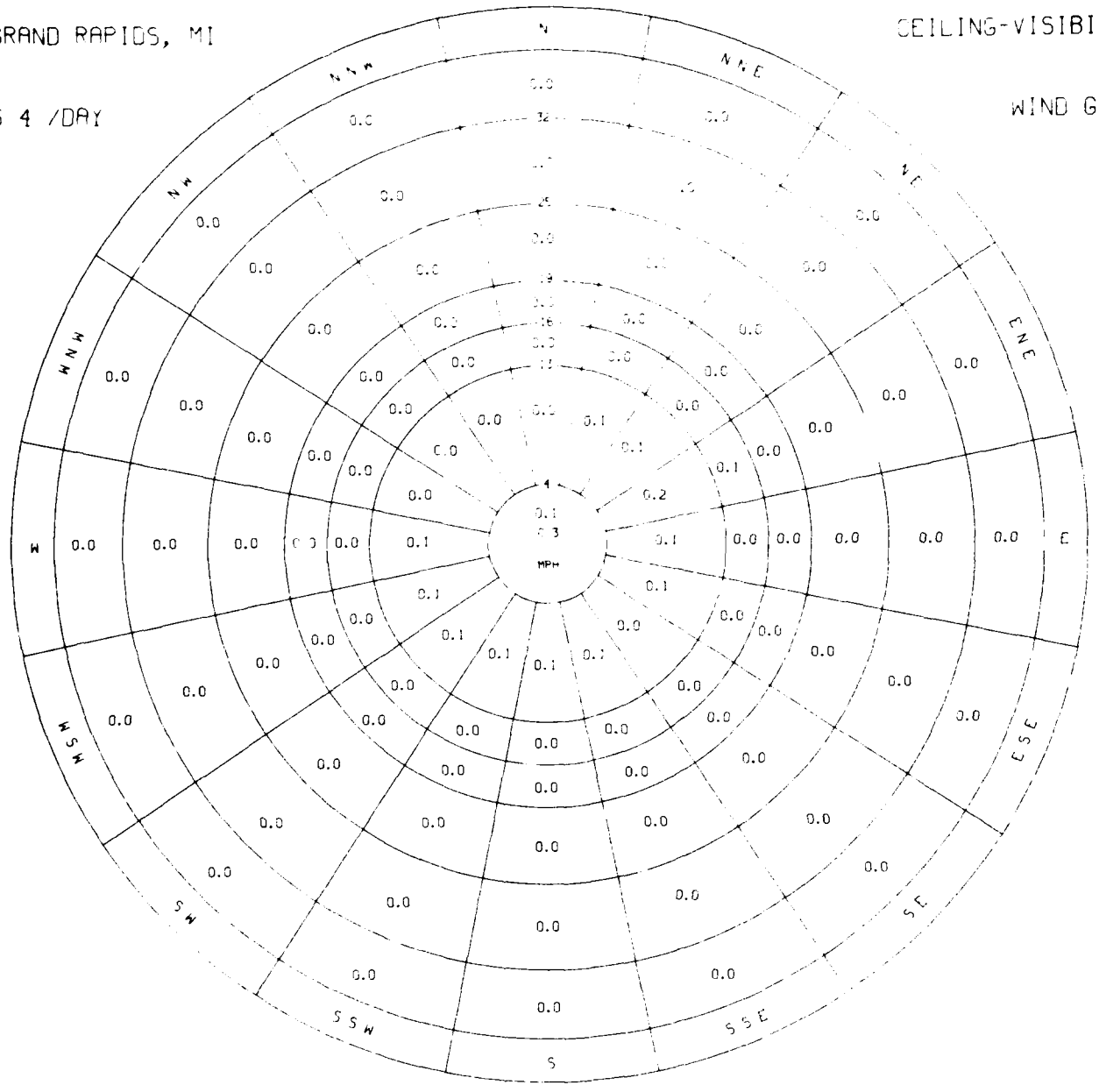
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.4	2.9	.1	.7	.0	.3	.0	.2	.0	.0	.0	.0	.6	4.4	9.8
NNE	.0	.1	.2	1.7	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.4	3.1	11.5
NE	.0	.2	.4	3.2	.2	1.7	.1	.9	.0	.3	.0	.0	.0	.0	.9	6.4	11.8
ENE	.0	.2	.6	4.1	.2	1.4	.2	1.4	.0	.2	.0	.0	.0	.0	1.0	7.4	11.4
E	.0	.3	.6	4.1	.2	1.5	.2	1.3	.0	.3	.0	.0	.0	.0	1.1	7.7	11.5
ESE	.0	.3	.4	2.7	.1	.9	.1	.5	.0	.2	.0	.0	.0	.0	.6	4.6	10.5
SE	.0	.3	.3	2.1	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.4	2.8	8.2
SSE	.0	.2	.2	1.7	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.5	9.3
S	.0	.3	1.0	6.9	.3	1.9	.2	1.1	.0	.1	.0	.0	.0	.0	1.4	10.2	10.4
SSW	.0	.3	.5	3.4	.2	1.3	.1	.8	.0	.1	.0	.0	.0	.0	.8	5.9	11.0
SW	.0	.2	.5	3.3	.2	1.4	.2	1.4	.1	.6	.0	.3	.0	.0	1.0	7.2	13.0
WSW	.0	.2	.6	4.1	.2	1.4	.3	1.8	.2	1.6	.1	.8	.0	.1	1.4	10.1	14.6
W	.0	.2	.6	4.6	.4	2.7	.4	2.5	.2	1.7	.1	.5	.0	.0	1.7	12.2	13.9
WNW	.0	.1	.4	2.9	.2	1.5	.2	1.2	.1	.7	.0	.1	.0	.0	.9	6.5	12.8
NW	.0	.1	.3	2.4	.1	.9	.1	.7	.0	.2	.0	.0	.0	.0	.6	4.3	11.6
NNW	.0	.1	.2	1.6	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.2	9.7
CALM	.4	2.5													.4	2.5	
TOTAL	.8	6.1	7.2	51.7	2.6	18.9	2.0	14.6	.9	6.6	.3	1.9	.0	.2	13.9	100	11.6

GRR GRAND RAPIDS, MI

CEILING-VISIBILITY

CLASS 4 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 4 / DAY

STATION NUMBER: 94860

NO. OBS.: 448

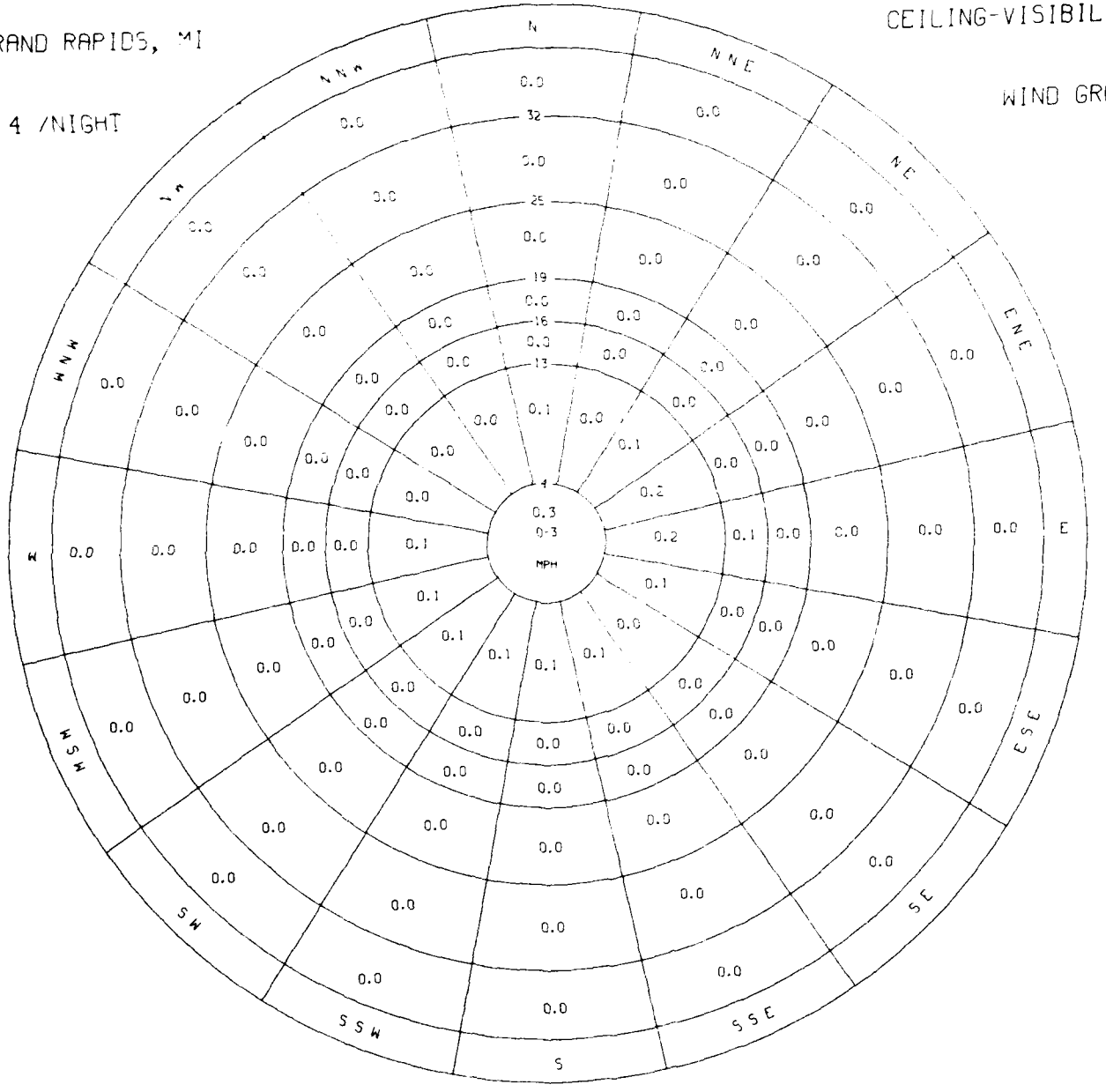
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.0	2.2	.0	.4	.0	1.3	.0	.4	.0	.0	.0	.0	.1	4.7	12.6
NNE	.0	.2	.1	3.3	.0	.2	.0	.9	.0	.0	.0	.0	.0	.0	.1	4.7	9.9
NE	.0	.0	.1	5.8	.0	1.6	.0	.7	.0	.2	.0	.2	.0	.0	.2	8.5	10.8
ENE	.0	.4	.2	8.3	.1	2.7	.0	1.1	.0	.2	.0	.0	.0	.0	.2	12.7	10.6
E	.0	.2	.1	6.5	.0	2.5	.0	1.8	.0	.2	.0	.2	.0	.0	.2	11.4	11.2
ESE	.0	.2	.1	2.9	.0	1.3	.0	.9	.0	.0	.0	.0	.0	.0	.1	5.4	10.1
SE	.0	.4	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.6
SSE	.0	.4	.1	2.9	.0	.4	.0	.0	.0	.2	.0	.0	.0	.0	.1	4.0	8.9
S	.0	.7	.1	6.0	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.2	7.8	8.6
SSW	.0	.0	.1	3.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.2	9.6
SW	.0	.0	.1	2.9	.0	1.1	.0	.7	.0	.4	.0	.2	.0	.0	.1	5.4	12.2
WSW	.0	.7	.1	3.6	.0	.7	.0	.9	.0	.4	.0	.7	.0	.7	.1	7.6	13.9
W	.0	.4	.1	5.4	.0	1.3	.0	.9	.0	1.1	.0	.4	.0	.0	.2	9.6	11.7
WNW	.0	.2	.0	1.8	.0	.4	.0	.9	.0	.4	.0	.2	.0	.0	.1	4.0	12.1
NW	.0	.2	.0	1.8	.0	.4	.0	.7	.0	.4	.0	.2	.0	.0	.1	3.8	12.1
NNW	.0	.2	.0	1.1	.0	.4	.0	.0	.0	.0	.0	.2	.0	.0	.0	2.3	11.2
CALM	.0	2.5													.0	2.5	
TOTAL	.1	7.1	1.1	58.9	.3	15.4	.2	11.2	.1	4.2	.0	2.5	.0	.7	1.9	100	

GRR GRAND RAPIDS, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 4 / NIGHT

STATION NUMBER: 94860

NO. OBS.: 500

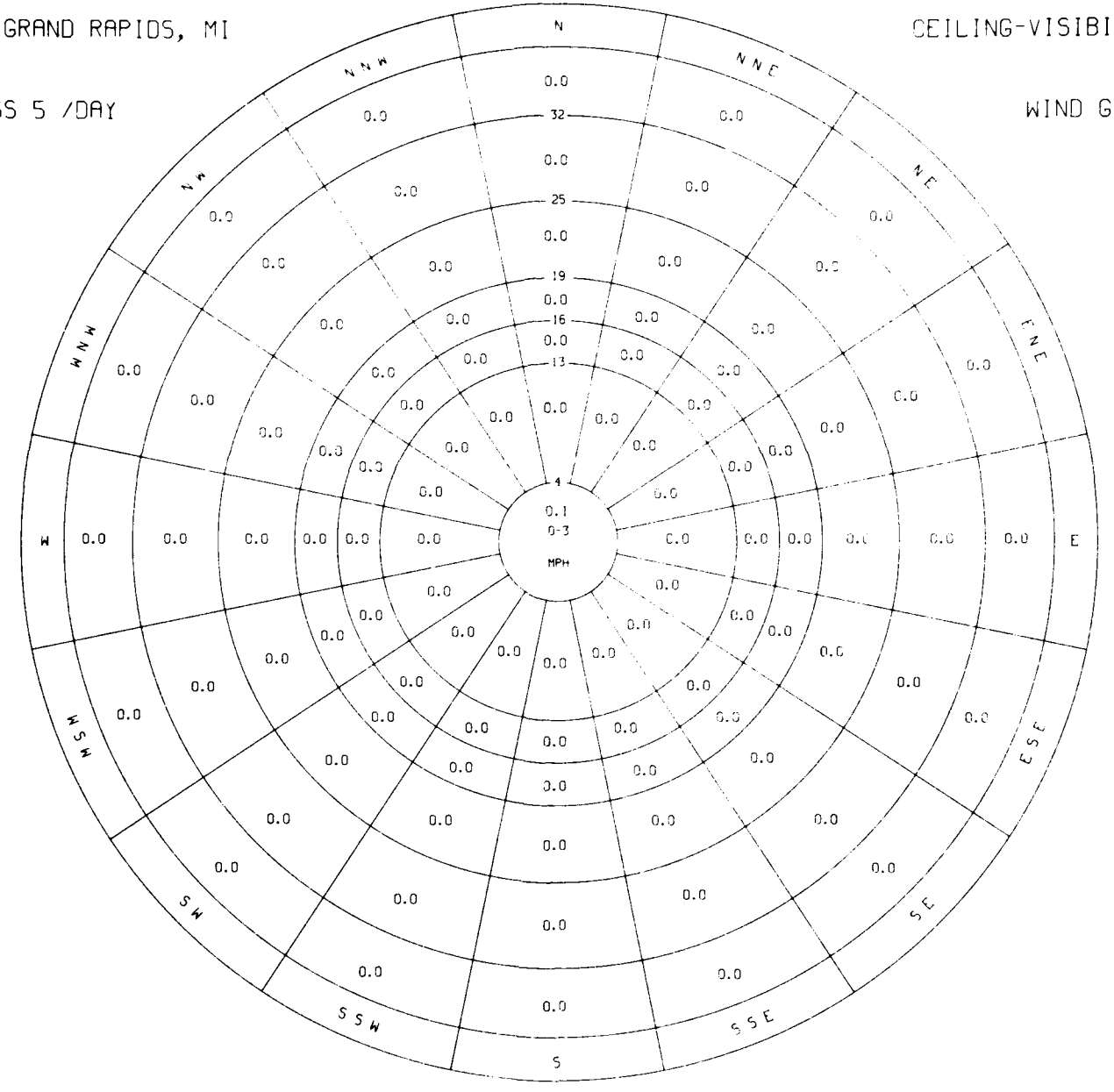
DIR	SPEED GROUPS (MPH)														TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.1	2.4	.0	.2	.0	.0	.0	.6	.0	.0	.0	.0	.1	3.4	10.7
NNE	.0	.0	.0	1.6	.0	.2	.0	.8	.0	.4	.0	.0	.0	.0	.1	3.0	13.3
NE	.0	.2	.1	4.4	.0	1.8	.0	.4	.0	.4	.0	.0	.0	.0	.2	7.2	11.1
ENE	.0	.2	.2	9.8	.0	1.6	.0	.4	.0	.6	.0	.0	.0	.0	.3	12.6	9.8
E	.0	.4	.2	7.6	.1	2.8	.0	1.6	.0	.8	.0	.0	.0	.0	.3	13.2	11.3
ESE	.0	.6	.1	4.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.1	5.4	8.4
SE	.0	.0	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	6.6
SSE	.0	.0	.1	2.4	.0	.4	.0	.2	.0	.0	.0	.0	.0	.0	.1	3.0	9.4
S	.0	.8	.1	5.4	.0	.8	.0	.2	.0	.2	.0	.0	.0	.0	.2	7.4	8.9
SSW	.0	.2	.1	3.6	.0	1.0	.0	.4	.0	.2	.0	.0	.0	.0	.1	5.4	10.4
SW	.0	.2	.1	3.4	.0	.6	.0	.8	.0	.2	.0	.0	.0	.0	.1	5.2	10.8
WSW	.0	.8	.1	3.8	.0	1.2	.0	.8	.0	.6	.0	.0	.0	.0	.2	7.2	10.6
W	.0	.8	.1	5.4	.0	1.2	.0	1.0	.0	1.8	.0	1.6	.0	.0	.3	11.8	14.3
WNW	.0	.0	.0	2.0	.0	.2	.0	.8	.0	.2	.0	.2	.0	.2	.1	3.6	13.7
NW	.0	.2	.0	1.8	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.1	2.6	9.4
NNW	.0	.2	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	7.6
CALM	.1	5.8													.1	5.8	
TOTAL	.3	10.6	1.5	60.6	.3	12.4	.2	8.4	.1	6.0	.0	1.8	.0	.2	2.4	100	10.2

GRR GRAND RAPIDS, MI

CEILING-VISIBILITY

CLASS 5 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 5 / DAY

STATION NUMBER: 94860

NO. OBS.: 94

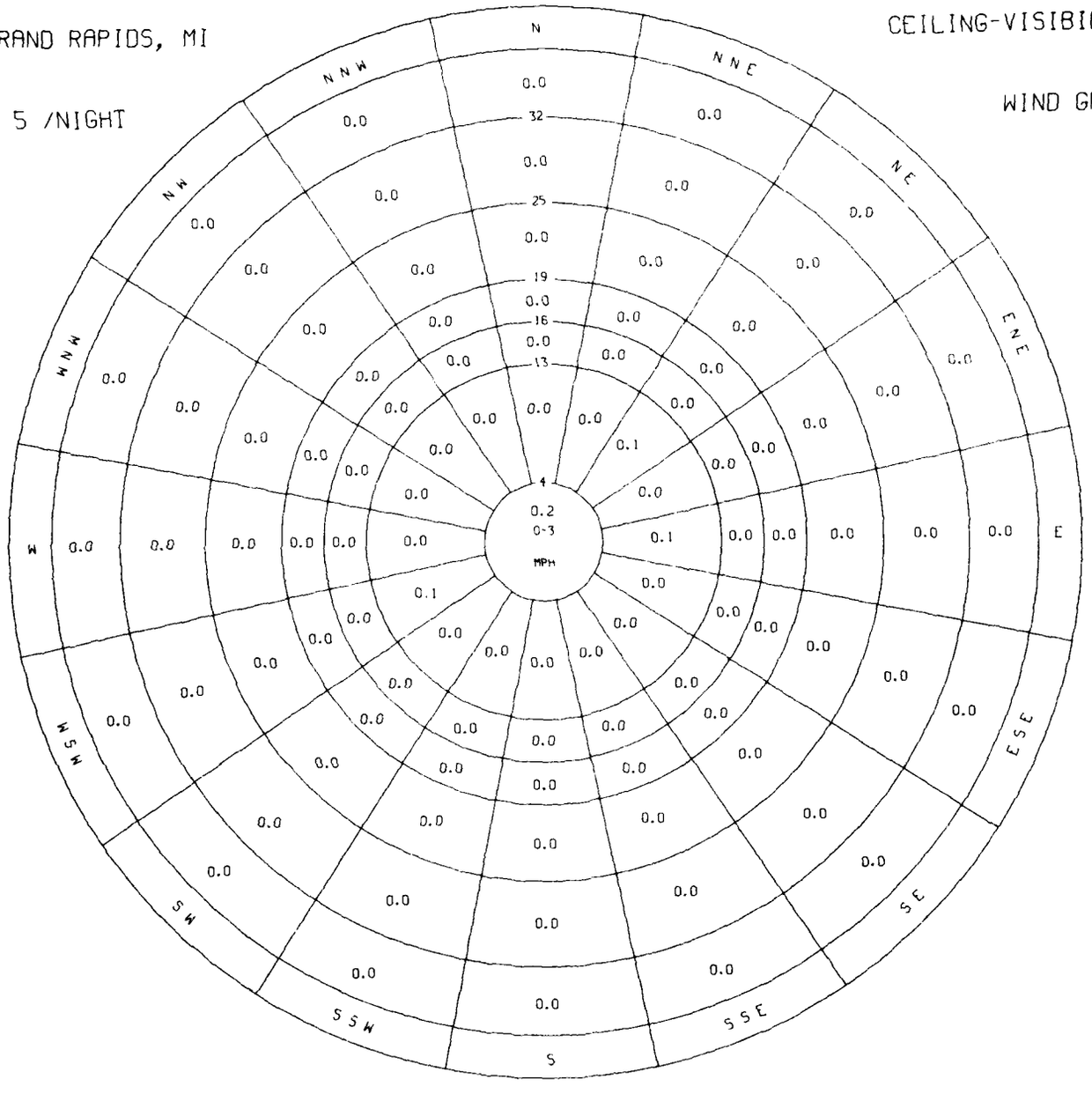
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	5.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	6.6
NNE	.0	1.1	.0	3.2	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	6.4	10.2
NE	.0	.0	.0	3.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	4.3	9.5
ENE	.0	.0	.0	5.3	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.5	10.0
E	.0	1.1	.0	7.4	.0	.0	.0	.0	.0	.0	.0	1.1	.0	.0	.0	9.6	10.7
ESE	.0	.0	.0	3.2	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	4.3	10.0
SE	.0	.0	.0	6.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	8.2
SSE	.0	.0	.0	2.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	10.3
S	.0	.0	.0	6.4	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	7.4	9.2
SSW	.0	1.1	.0	1.1	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	3.2	10.0
SW	.0	.0	.0	2.1	.0	2.1	.0	.0	.0	.0	.0	.0	.0	1.1	.0	5.3	15.8
WSW	.0	2.1	.0	4.3	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	7.4	7.6
W	.0	.0	.0	11.7	.0	.0	.0	1.1	.0	1.1	.0	.0	.0	.0	.1	13.8	9.2
WNW	.0	.0	.0	2.1	.0	1.1	.0	.0	.0	.0	.0	.0	.0	1.1	.0	4.3	15.2
NW	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	3.0
NNW	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	9.0
CALM	.0	8.5													.0	8.5	
TOTAL	.1	14.9	.3	64.9	.0	8.5	.0	6.4	.0	2.1	.0	1.1	.0	2.1	.4	100	9.0

GRR GRAND RAPIDS, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 5 / NIGHT

STATION NUMBER: 94860

NO. OBS.: 172

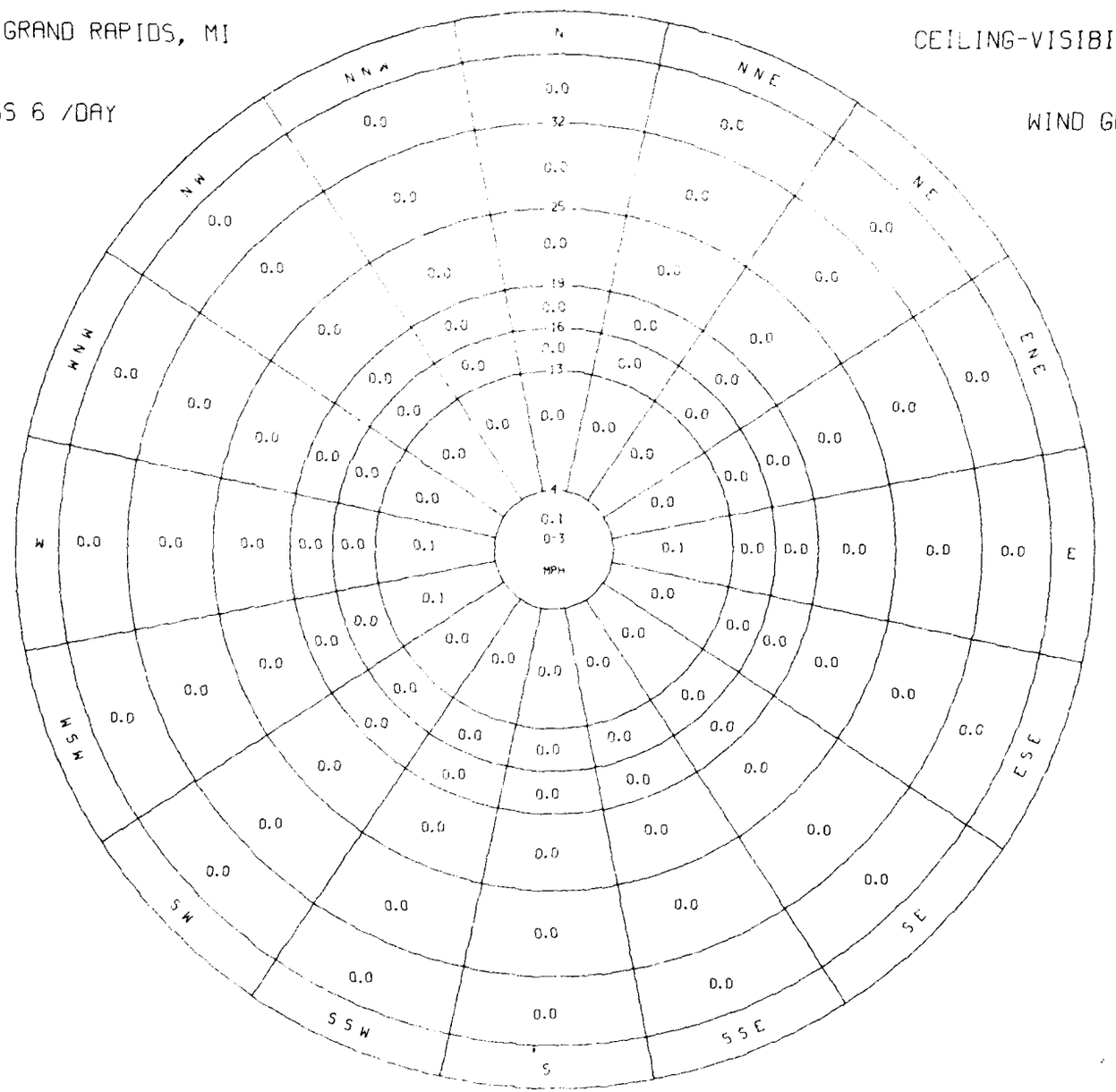
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	2.3	.0	2.9	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.1	6.4	7.9
NNE	.0	1.2	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	6.4
NE	.0	1.7	.1	8.1	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.1	11.6	9.0
ENE	.0	1.7	.0	4.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.0	8.3
E	.0	1.7	.1	13.4	.0	.6	.0	1.2	.0	.6	.0	.0	.0	.0	.1	17.4	8.7
ESE	.0	.6	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	6.9
SE	.0	2.3	.0	3.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.4	6.0
SSE	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	7.0
S	.0	.6	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	7.0
SSW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.2	15.0
SW	.0	.6	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	7.9
WSW	.0	.0	.1	7.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.1	8.6
W	.0	1.2	.0	5.8	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.1	7.6	7.7
WNW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.2	17.0
NW	.0	.0	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.9	9.6
NNW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	6.5
CALM	.1	8.7													.1	8.7	
TOTAL	.2	22.7	.6	67.4	.0	3.5	.0	2.9	.0	2.3	.0	1.2	.0	.0	.8	100	7.5

GRR GRAND RAPIDS, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 6 / DAY

STATION NUMBER: 94860

NO. OBS.: 146

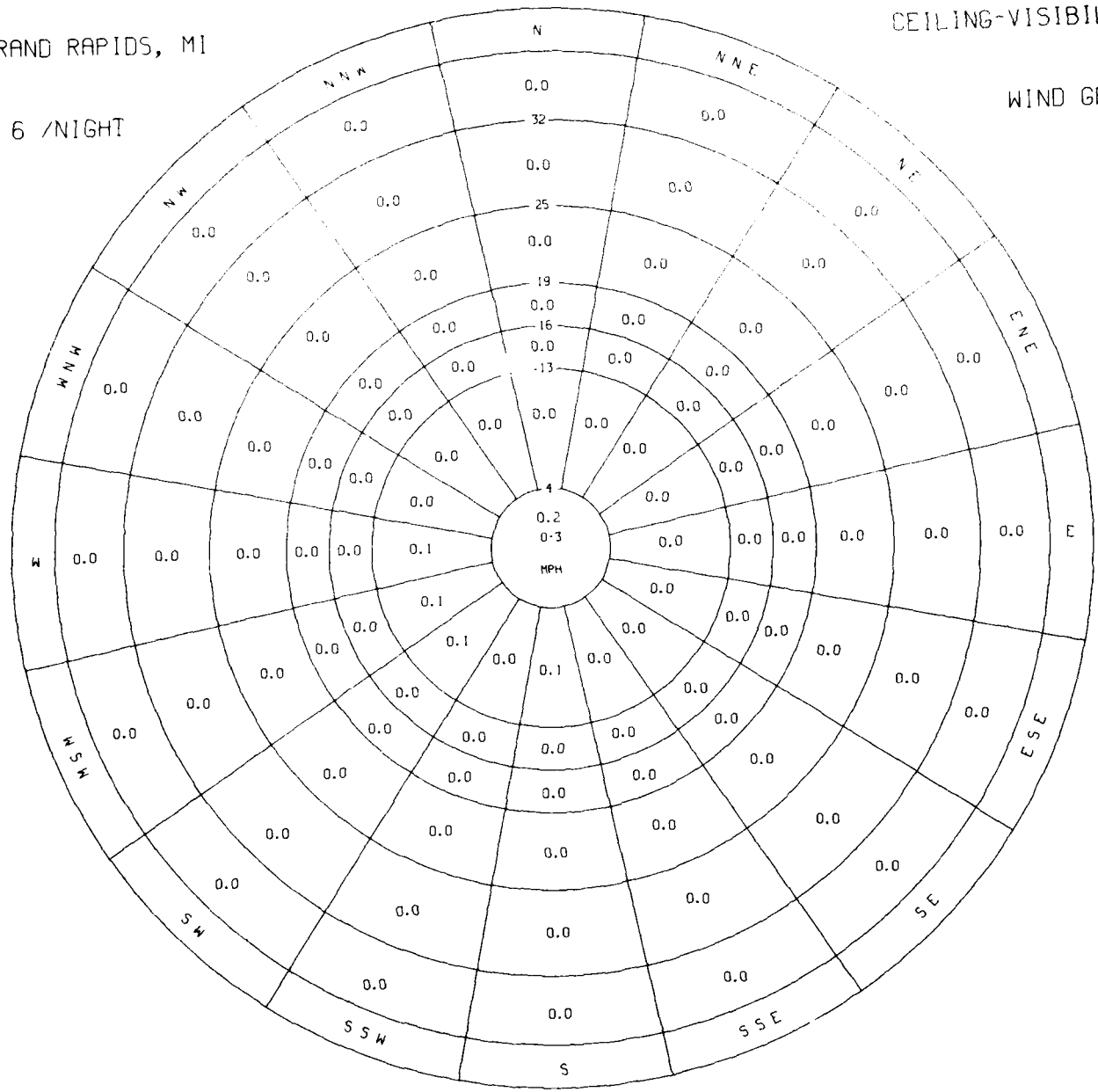
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	6.5
NNE	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.0
NE	.0	.7	.0	1.4	.0	.0	.0	.0	.0	.7	.0	.0	.0	.0	.0	2.7	8.8
ENE	.0	1.4	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	6.4
E	.0	2.7	.1	10.3	.0	2.1	.0	.0	.0	.0	.0	.7	.0	.0	.1	15.8	8.9
ESE	.0	.0	.0	6.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.2	6.8
SE	.0	.7	.0	3.4	.0	.0	[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	4.1	6.2
SSE	.0	1.4	.0	5.5	.0	.7	[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	7.5	7.6
S	.0	.0	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	6.9
SSW	.0	.7	.0	4.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	7.7
SW	.0	.7	.0	4.8	.0	.0	[illegible]	.0	.0	.0	.0	.0	.0	.0	.0	5.5	6.7
WSW	.0	.7	.1	8.2	.0	1.4	[illegible]	.7	.0	.0	.0	.0	.0	.7	.1	11.6	11.1
W	.0	1.4	.1	8.9	.0	.7	[illegible]	.0	.0	.0	.0	.0	.0	.0	.1	11.0	7.2
WNW	.0	1.4	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	6.0
NW	.0	.0	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	2.1	16.7
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.1	9.6													.1	9.6	
TOTAL	.1	21.2	.4	69.9	.0	5.5	.0	.7	.0	.7	.0	1.4	.0	.7	.6	100	7.3

GRR GRAND RAPIDS, MI

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: GRR GRAND RAPIDS, MI

PERIOD: 1964-1978

CLASS 6 / NIGHT

STATION NUMBER: 94860

NO. OBS.: 162

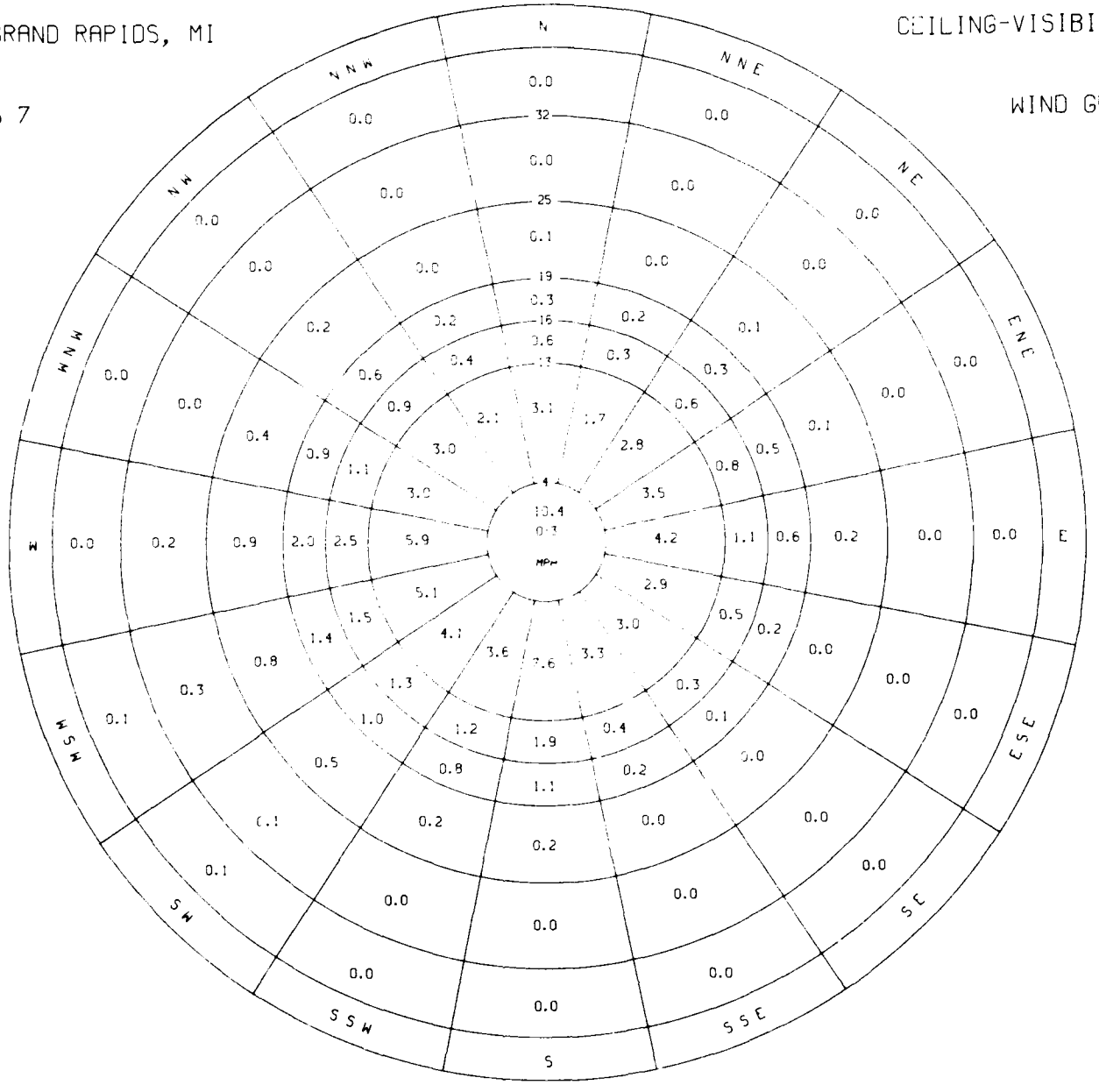
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.2	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.4
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	.6	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.4
ENE	.0	.6	.0	4.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	6.8
E	.0	2.5	.0	5.6	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.1	9.3	7.3
ESE	.0	1.2	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.9	5.9
SE	.0	1.2	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	6.2
SSE	.0	1.2	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	5.0
S	.0	.6	.1	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.3	6.4
SSW	.0	.6	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	7.6
SW	.0	.6	.1	8.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.6	6.7
WSW	.0	1.9	.1	13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	14.8	7.1
W	.0	1.2	.1	13.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	14.2	7.4
WNW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	6.0
NW	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	7.0
NNW	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	5.0
CALM	.1	13.0													.1	13.0	
TOTAL	.2	26.5	.6	72.2	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.8	100	5.8

GRR GRAND RAPIDS, MI

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

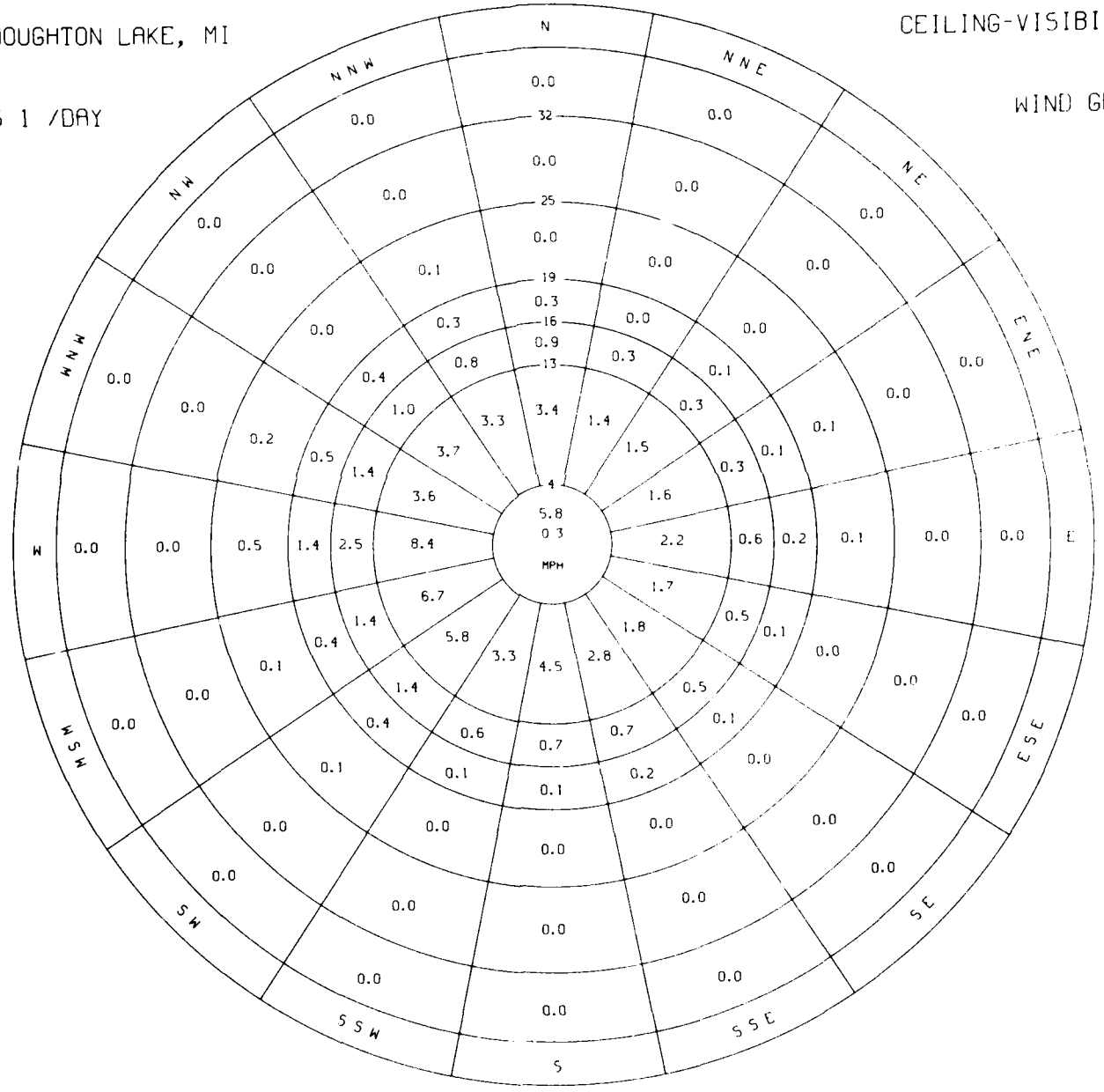


HTL HOUGHTON LAKE, MI

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 1 / DAY

STATION NUMBER: 94814

NO. OBS.: 17735

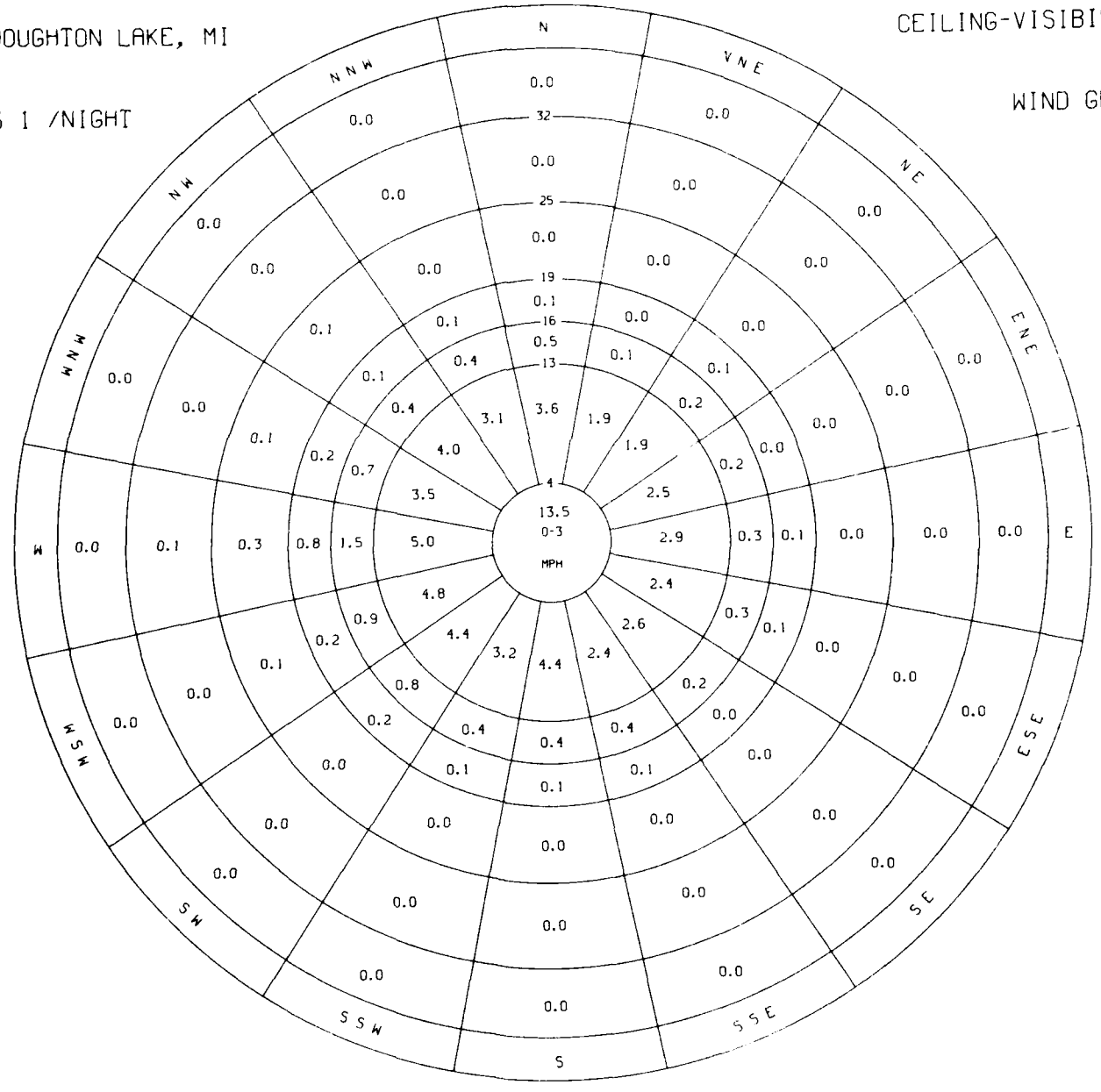
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.2	3.4	4.2	.9	1.1	.3	.3	.0	.0	.0	.0	.0	.0	4.8	5.9	10.1
NNE	.1	.1	1.4	1.7	.3	.4	.0	.0	.0	.0	.0	.0	.0	.0	1.8	2.2	9.2
NE	.1	.1	1.5	1.8	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.0	2.5	9.3
ENE	.3	.4	1.6	2.0	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	2.4	3.0	9.0
E	.3	.3	2.2	2.7	.6	.8	.2	.3	.1	.1	.0	.0	.0	.0	3.4	4.2	9.8
ESE	.1	.2	1.7	2.1	.5	.7	.1	.2	.0	.1	.0	.0	.0	.0	2.6	3.2	9.9
SE	.2	.2	1.8	2.2	.5	.6	.1	.2	.0	.0	.0	.0	.0	.0	2.7	3.3	9.8
SSE	.1	.1	2.8	3.4	.7	.9	.2	.2	.0	.0	.0	.0	.0	.0	3.8	4.6	9.8
S	.2	.2	4.5	5.5	.7	.9	.1	.1	.0	.0	.0	.0	.0	.0	5.4	6.7	8.8
SSW	.2	.2	3.3	4.0	.6	.7	.1	.1	.0	.0	.0	.0	.0	.0	4.1	5.0	9.1
SW	.2	.3	5.8	7.1	1.4	1.7	.4	.5	.1	.1	.0	.0	.0	.0	7.9	9.7	9.8
WSW	.3	.4	6.7	8.2	1.4	1.7	.4	.5	.1	.2	.0	.0	.0	.0	9.0	11.0	9.3
W	.5	.6	8.4	10.3	2.5	3.1	1.4	1.7	.5	.6	.0	.1	.0	.0	13.3	16.3	10.5
WNW	.2	.3	3.6	4.4	1.4	1.7	.5	.6	.2	.2	.0	.0	.0	.0	5.9	7.2	10.6
NW	.2	.2	3.7	4.5	1.0	1.3	.4	.4	.0	.0	.0	.0	.0	0	5.3	6.5	10.1
NNW	.2	.2	3.3	4.1	.8	1.0	.3	.4	.1	.1	.0	.0	.0	.0	4.7	5.8	10.2
CALM	2.5	3.0													2.5	3.0	
TOTAL	5.8	7.1	55.6	68.2	14.0	17.2	4.7	5.7	1.2	1.5	.1	.1	.0	.0	81.5	100	9.6

HTL HOUGHTON LAKE, MI

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 1 / NIGHT

STATION NUMBER: 94814

NO. OBS.: 14737

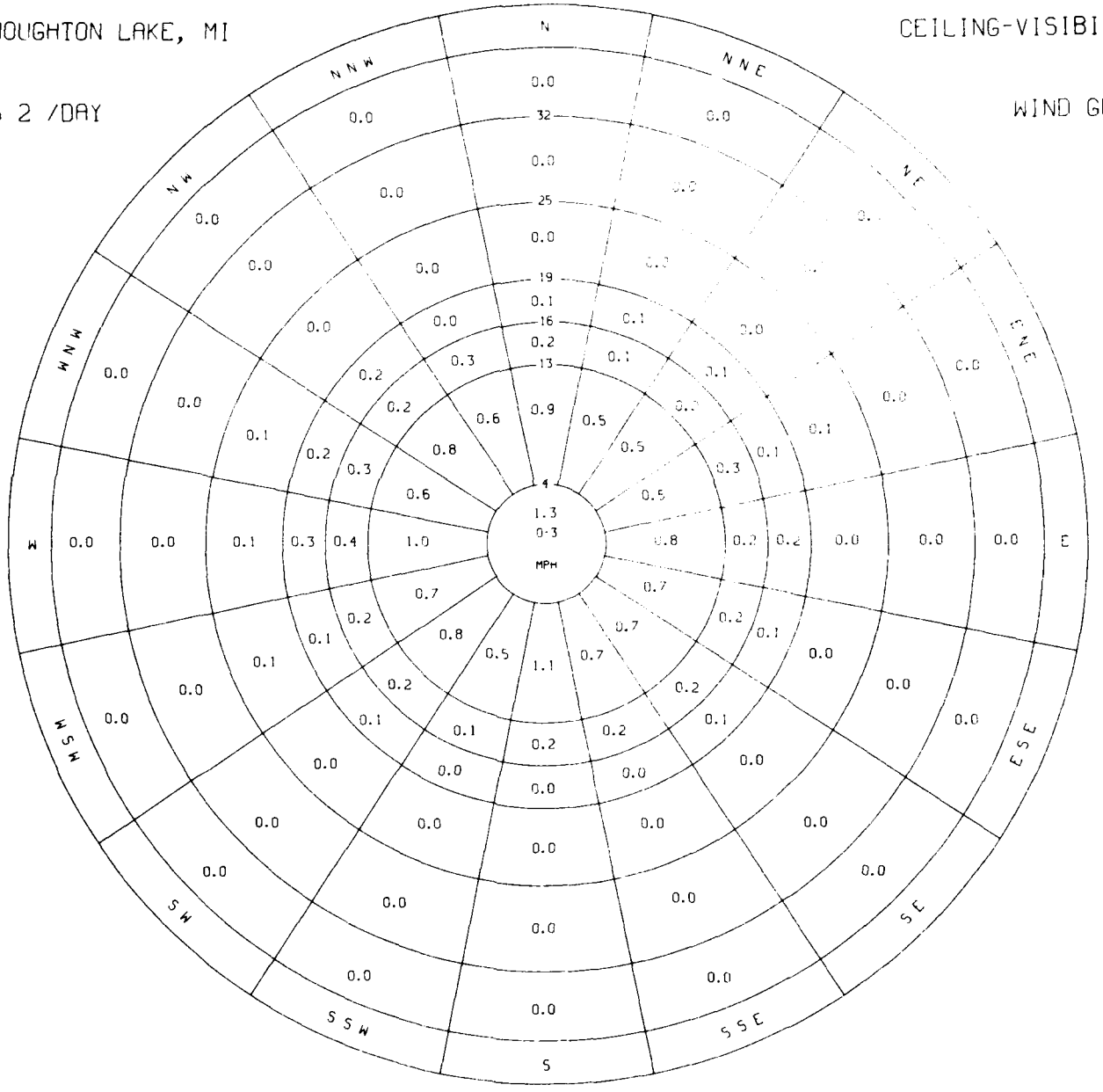
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.7	3.6	4.7	.5	.7	.1	.1	.0	.0	.0	.0	.0	.0	4.8	6.2	8.1
NNE	.4	.5	1.9	2.5	.1	.2	.0	.0	.0	.0	.0	.0	.0	.0	2.5	3.2	7.4
NE	.5	.6	1.9	2.5	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	2.7	3.4	7.0
ENE	.6	.8	2.5	3.2	.2	.2	.0	.0	.0	.0	.0	.0	.0	.0	3.3	4.3	6.8
E	.6	.8	2.9	3.7	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	3.9	5.1	7.5
ESE	.4	.5	2.4	3.1	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.1	4.0	7.5
SE	.3	.4	2.6	3.4	.2	.3	.0	.1	.0	.0	.0	.0	.0	.0	3.2	4.2	7.9
SSE	.3	.4	2.4	3.1	.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	3.2	4.1	8.2
S	.4	.5	4.4	5.7	.4	.6	.1	.1	.0	.0	.0	.0	.0	.0	5.2	6.8	8.1
SSW	.3	.3	3.2	4.2	.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	4.0	5.2	8.6
SW	.4	.5	4.4	5.8	.8	1.0	.2	.2	.0	.1	.0	.0	.0	.0	5.8	7.5	9.0
WSW	.4	.5	4.8	6.2	.9	1.2	.2	.3	.1	.1	.0	.0	.0	.0	6.4	8.3	9.2
W	.4	.6	5.0	6.4	1.5	2.0	.8	1.1	.3	.4	.1	.1	.0	.0	8.2	10.6	10.6
WNW	.4	.5	3.5	4.5	.7	.9	.2	.3	.1	.1	.0	.0	.0	.0	4.9	6.3	8.9
NW	.5	.7	4.0	5.2	.4	.5	.1	.1	.1	.1	.0	.0	.0	.0	5.1	6.6	7.8
NNW	.5	.6	3.1	4.0	.4	.6	.1	.1	.0	.0	.0	.0	.0	.0	4.2	5.4	8.0
CALM	6.7	8.7													6.7	8.7	
TOTAL	13.5	17.5	52.7	68.4	7.8	10.1	2.3	2.9	.7	.9	.1	.1	.0	.0	77.0	100	7.7

HTL HOUGHTON LAKE, MI

CEILING-VISIBILITY

CLASS 2 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 2 / DAY

STATION NUMBER: 94814

NO. OBS.: 4030

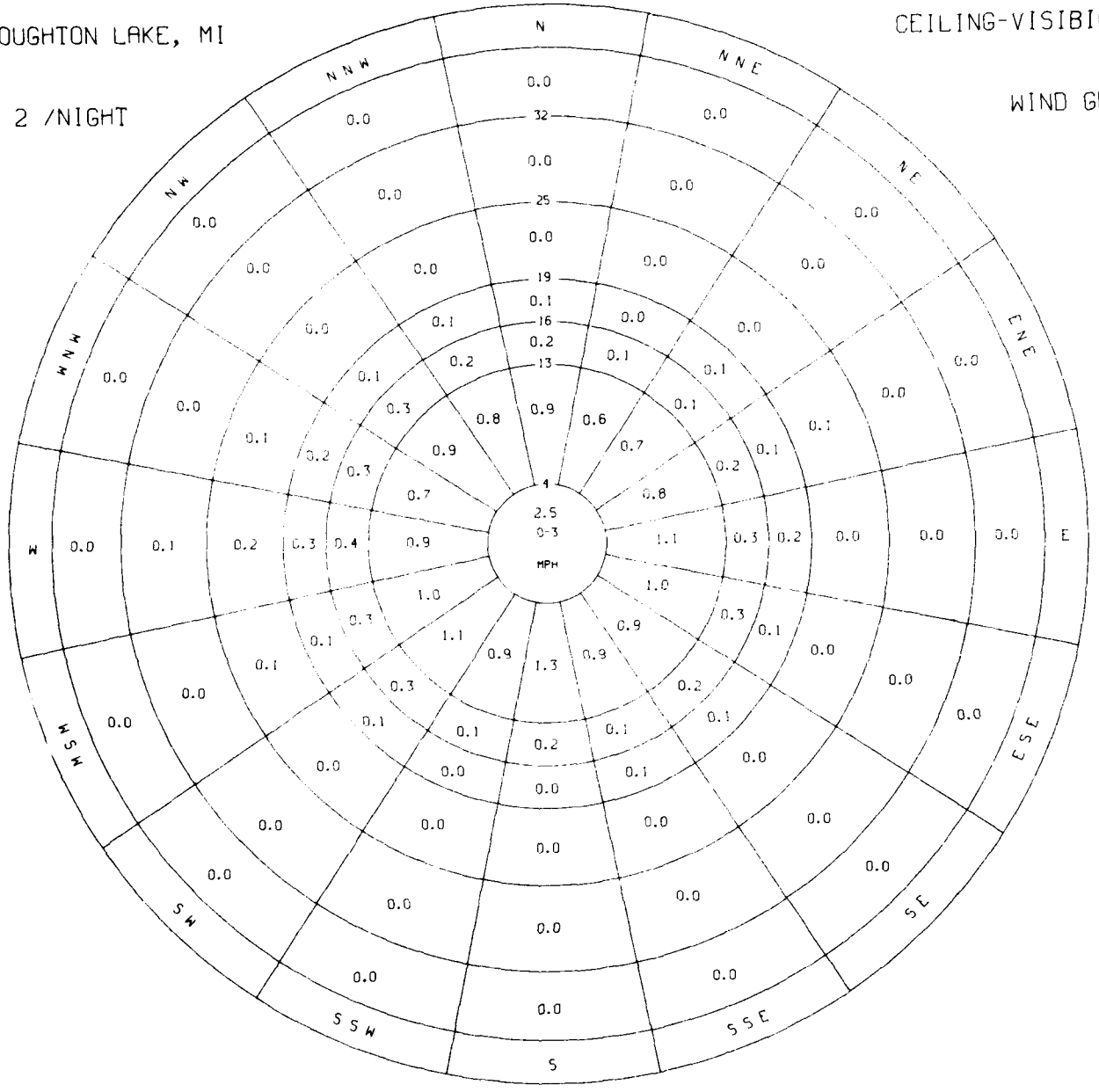
DIR	SPEED GROUPS (MPH)																TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.9	4.8	.2	1.2	.1	.5	.0	.1	.0	.0	.0	.0	1.3	6.8	10.1
NNE	.0	.1	.5	3.0	.1	.8	.1	.3	.0	.0	.0	.0	.0	.0	.8	4.2	10.6
NE	.0	.2	.5	2.6	.2	1.0	.1	.4	.0	.1	.0	.0	.0	.0	.8	4.3	10.8
ENE	.1	.5	.5	2.7	.3	1.9	.1	.6	.1	.3	.0	.0	.0	.0	1.1	6.1	11.3
E	.1	.3	.8	4.4	.2	1.3	.2	.9	.0	.2	.0	.0	.0	.0	1.3	7.1	10.8
ESE	.0	.1	.7	3.6	.2	1.2	.1	.6	.0	.1	.0	.0	.0	.0	1.0	5.6	10.7
SE	.0	.2	.7	3.8	.2	1.0	.1	.4	.0	.0	.0	.0	.0	.0	1.0	5.5	10.2
SSE	.0	.2	.7	3.9	.2	.9	.0	.2	.0	.0	.0	.0	.0	.0	1.0	5.2	9.6
S	.1	.3	1.1	6.0	.2	1.1	.0	.1	.0	.0	.0	.0	.0	.0	1.4	7.6	9.0
SSW	.1	.3	.5	2.8	.1	.6	.0	.1	.0	.0	.0	.0	.0	.0	.7	3.9	9.2
SW	.0	.1	.8	4.2	.2	.9	.1	.4	.0	.2	.0	.2	.0	.0	1.1	6.1	10.8
WSW	.1	.3	.7	3.9	.2	.9	.1	.7	.1	.3	.0	.1	.0	.0	1.2	6.3	10.7
W	.1	.3	1.0	5.3	.4	2.2	.3	1.5	.1	.6	.0	.1	.0	.0	1.8	10.0	11.8
WNW	.0	.2	.6	3.4	.3	1.6	.2	.9	.1	.3	.0	.0	.0	.0	1.2	6.4	11.6
NW	.0	.2	.8	4.4	.2	1.3	.2	.8	.0	.1	.0	.0	.0	.0	1.3	6.8	11.0
NNW	.0	.0	.6	3.0	.3	1.6	.0	.2	.0	.2	.0	.0	.0	.0	.9	5.1	11.1
CALM	.6	3.2													.6	3.2	
TOTAL	1.3	7.0	11.4	61.8	3.6	19.3	1.6	8.7	.5	2.7	.1	.5	.0	.0	18.5	100	10.3

HTL HOUGHTON LAKE, MI

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 2 / NIGHT

STATION NUMBER: 94814

NO. OBS.: 4402

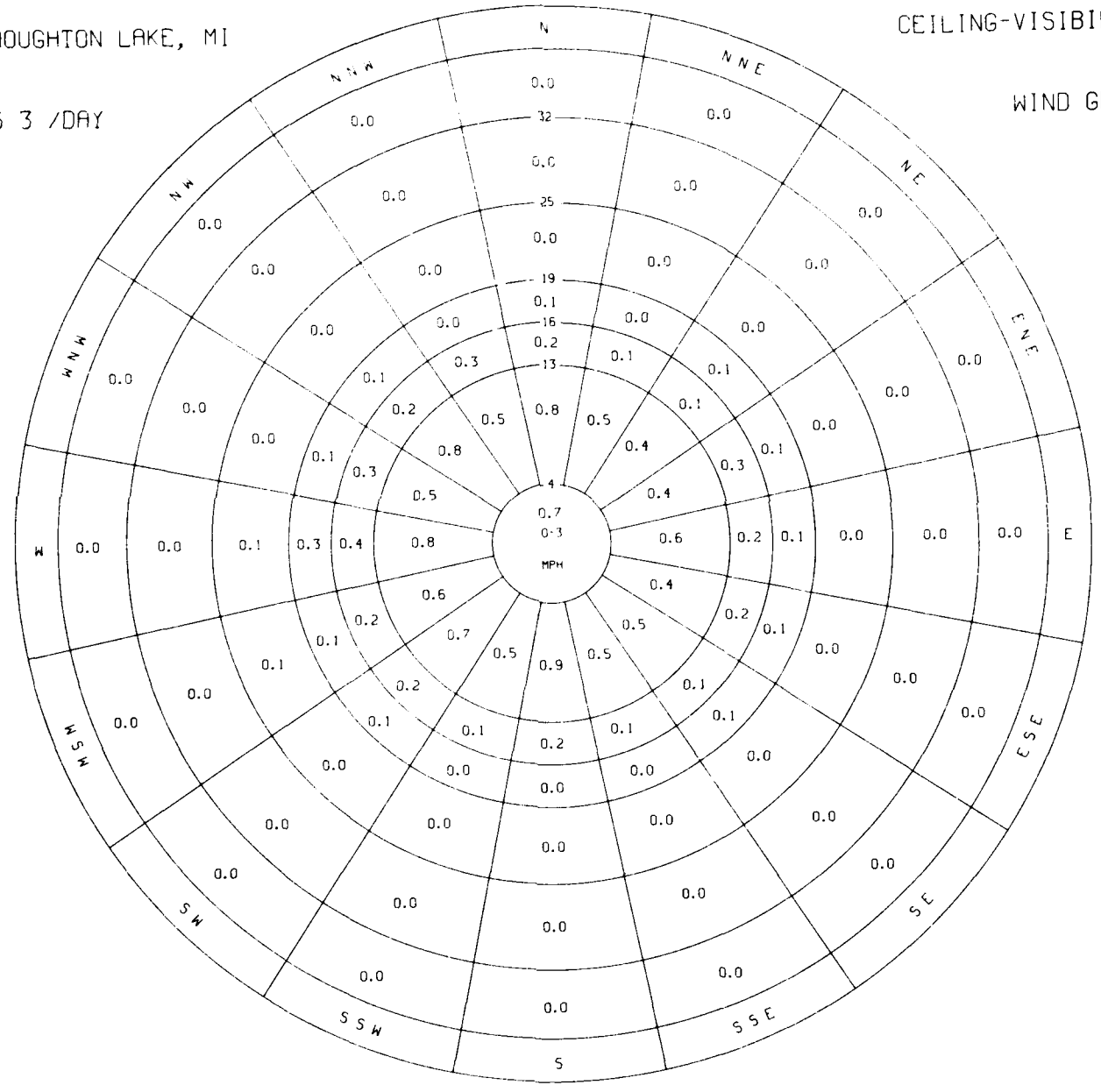
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.9	3.8	.2	1.0	.1	.3	.0	.1	.0	.0	.0	.0	1.3	5.8	9.6
NNE	.0	.2	.6	2.6	.1	.5	.0	.2	.0	.0	.0	.0	.0	.0	.8	3.4	9.6
NE	.1	.3	.7	3.0	.1	.6	.1	.2	.0	.0	.0	.0	.0	.0	1.0	4.2	9.1
ENE	.1	.5	.6	3.7	.2	.9	.1	.6	.1	.3	.0	.0	.0	.0	1.4	6.0	9.9
E	.1	.5	1.1	4.9	.3	1.4	.2	.8	.0	.1	.0	.0	.0	.0	1.8	7.8	10.1
ESE	.1	.3	1.0	4.5	.3	1.2	.1	.5	.0	.1	.0	.0	.0	.0	1.5	6.5	9.5
SE	.1	.4	.9	3.7	.2	1.0	.1	.3	.0	.1	.0	.0	.0	.0	1.2	5.4	9.6
SSE	.1	.5	.9	4.0	.1	.5	.1	.2	.0	.1	.0	.0	.0	.0	1.2	5.3	8.9
S	.1	.4	1.3	5.9	.2	.8	.0	.1	.0	.0	.0	.0	.0	.0	1.7	7.2	8.7
SSW	.0	.1	.9	3.7	.1	.5	.0	.0	.0	.0	.0	.0	.0	.0	1.0	4.4	9.0
SW	.1	.4	1.1	4.6	.3	1.1	.1	.5	.0	.1	.0	.0	.0	.0	1.5	6.6	9.8
WSW	.1	.3	1.0	4.4	.3	1.2	.1	.6	.1	.3	.0	.0	.0	.0	1.6	6.8	10.4
W	.1	.2	.9	3.9	.4	1.9	.3	1.3	.2	1.1	.1	.2	.0	.0	2.0	8.6	13.0
WNW	.1	.3	.7	3.0	.3	1.4	.2	.7	.1	.3	.0	.0	.0	.0	1.3	5.7	11.6
NW	.1	.5	.9	3.7	.3	1.3	.1	.4	.0	.1	.0	.0	.0	.0	1.4	6.1	10.0
NNW	.1	.3	.8	3.4	.2	.8	.1	.2	.0	.1	.0	.0	.0	.0	1.1	4.9	9.5
CALM	1.2	5.2													1.2	5.2	
TOTAL	2.5	10.9	14.5	62.9	3.7	16.0	1.6	6.9	.7	2.9	.1	.5	.0	.0	23.0	100	9.5

HTL HOUGHTON LAKE, MI

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 3 / DAY

STATION NUMBER: 94814

NO. OBS.: 3229

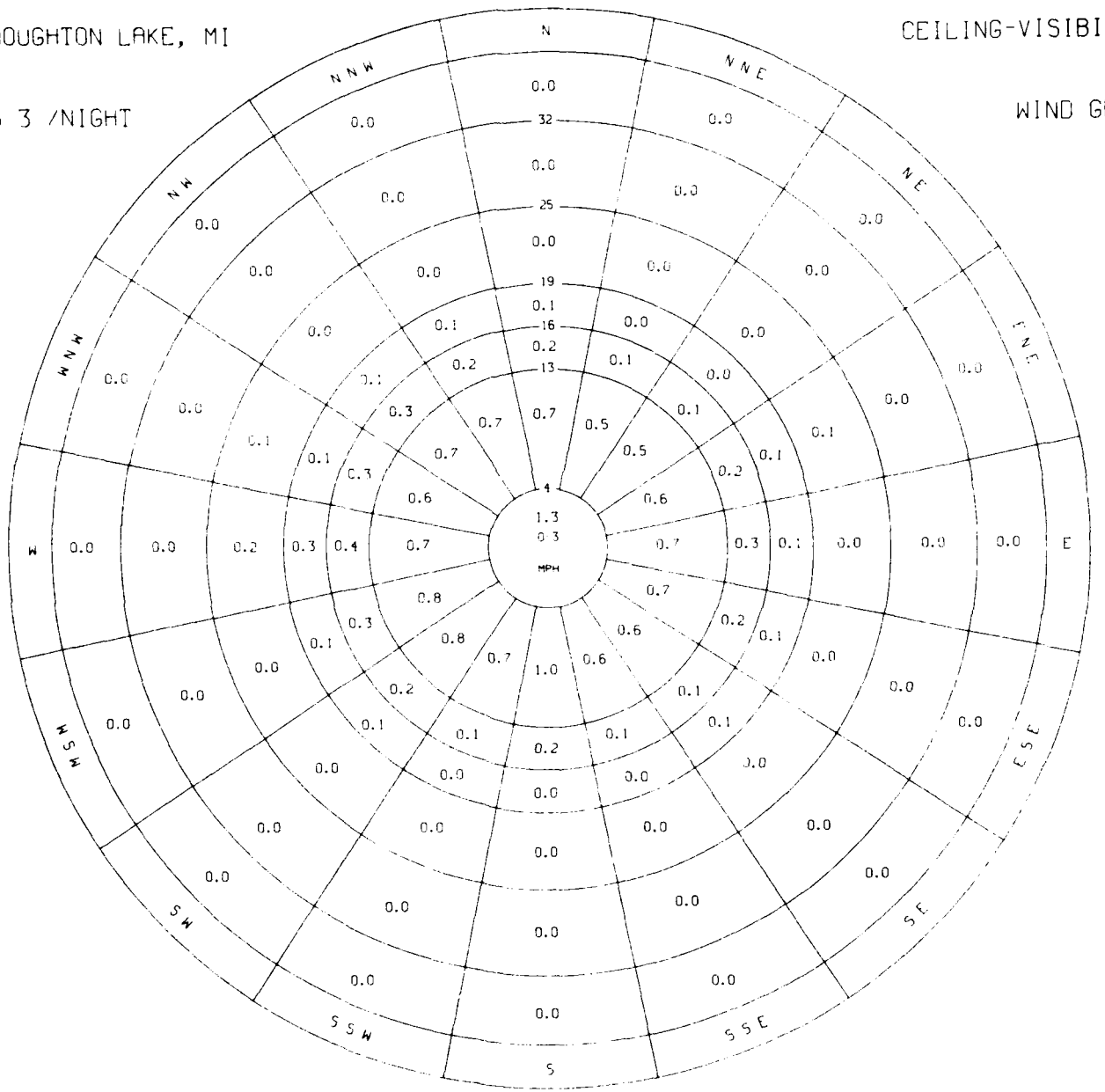
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.8	5.4	.2	1.3	.1	.4	.0	.1	.0	.0	.0	.0	1.1	7.4	10.1
NNE	.0	.1	.5	3.1	.1	.8	.0	.2	.0	.0	.0	.0	.0	.0	.6	4.3	10.5
NE	.0	.2	.4	2.7	.1	1.0	.1	.5	.0	.0	.0	.0	.0	.0	.6	4.4	10.7
ENE	.0	.2	.4	2.4	.3	1.9	.1	.7	.0	.2	.0	.0	.0	.0	.8	5.5	11.8
E	.0	.2	.6	4.1	.2	1.4	.1	.8	.0	.2	.0	.0	.0	.0	1.0	6.7	11.0
ESE	.0	.1	.4	3.0	.2	1.2	.1	.6	.0	.1	.0	.0	.0	.0	.7	4.9	11.1
SE	.0	.2	.5	3.3	.1	.9	.1	.5	.0	.0	.0	.0	.0	.0	.7	4.7	10.6
SSE	.0	.2	.5	3.2	.1	1.0	.0	.2	.0	.0	.0	.0	.0	.0	.7	4.5	9.7
S	.0	.2	.9	5.9	.2	1.2	.0	.1	.0	.0	.0	.0	.0	.0	1.1	7.4	9.3
SSW	.0	.3	.5	3.1	.1	.7	.0	.1	.0	.0	.0	.0	.0	.0	.6	4.2	9.4
SW	.0	.1	.7	4.5	.2	1.1	.1	.5	.0	.2	.0	.2	.0	.0	1.0	6.4	11.0
WSW	.0	.2	.6	4.3	.2	1.1	.1	.8	.1	.3	.0	.1	.0	.0	1.0	6.8	11.0
W	.0	.3	.8	5.7	.4	2.6	.3	1.8	.1	.7	.0	.2	.0	.0	1.7	11.2	12.1
WNW	.0	.3	.5	3.6	.3	1.7	.1	1.0	.0	.3	.0	.0	.0	.0	1.0	6.9	11.8
NW	.0	.2	.8	5.1	.2	1.5	.1	.9	.0	.1	.0	.0	.0	.0	1.2	7.8	11.0
NNW	.0	.0	.5	3.1	.3	1.7	.0	.2	.0	.2	.0	.0	.0	.0	.8	5.1	11.1
CALM	.2	1.7													.2	1.7	
TOTAL	.7	4.5	9.3	62.5	3.1	21.0	1.4	9.1	.4	2.5	.1	.5	.0	.0	14.8	100	10.7

HTL HOUGHTON LAKE, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 3 / NIGHT

STATION NUMBER: 94814

NO. OBS.: 3292

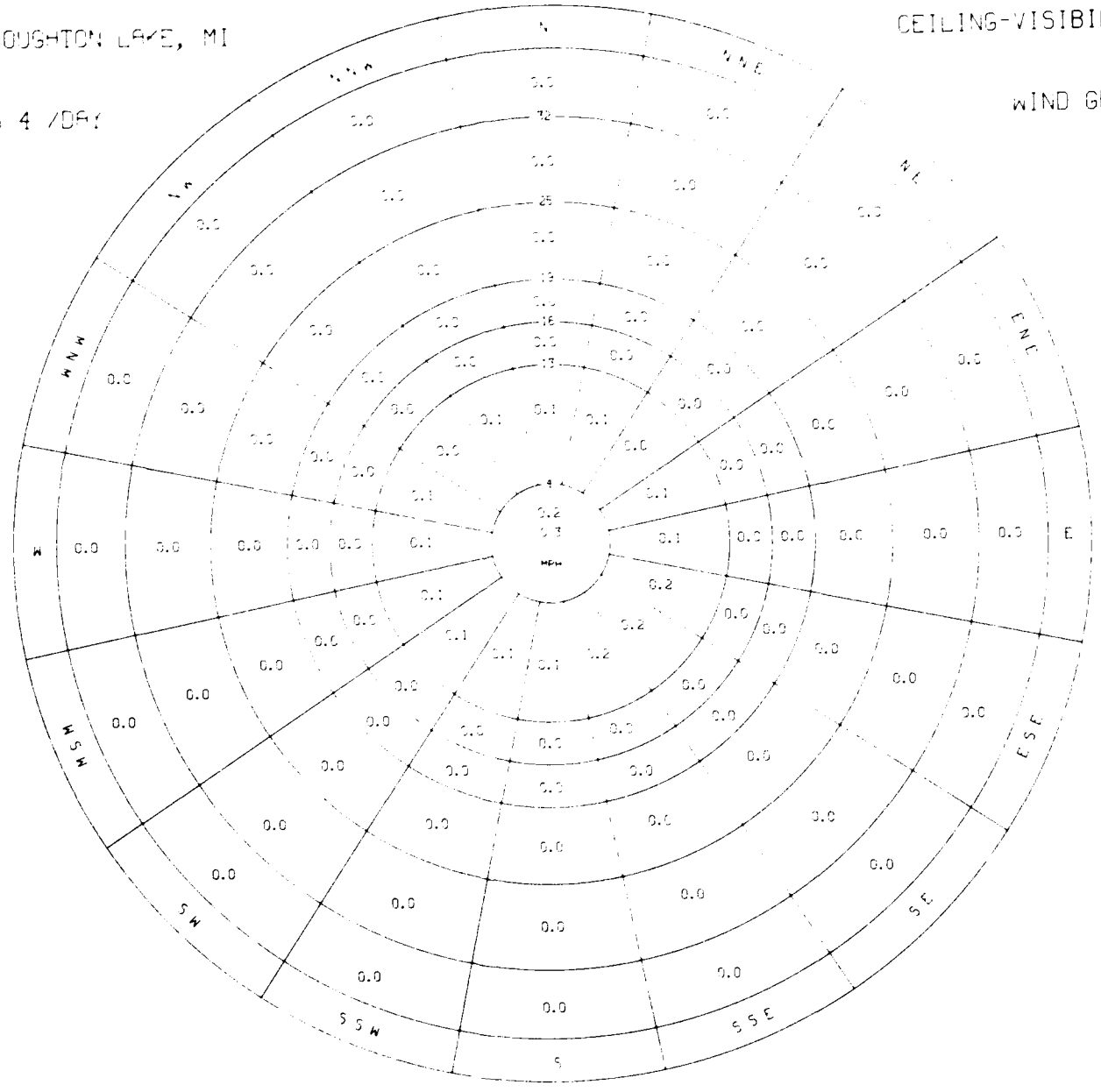
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.7	4.2	.2	1.3	.1	.3	.0	.1	.0	.0	.0	.0	1.1	6.4	9.7
NNE	.0	.1	.5	2.9	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.5	9.7
NE	.0	.1	.5	3.0	.1	.7	.0	.2	.0	.0	.0	.0	.0	.0	.7	4.1	9.6
ENE	.0	.2	.6	3.3	.2	.9	.1	.7	.1	.3	.0	.0	.0	.0	.9	5.4	10.6
E	.1	.4	.7	4.2	.3	1.5	.1	.8	.0	.1	.0	.0	.0	.0	1.2	6.9	10.3
ESE	.0	.2	.7	3.8	.2	1.3	.1	.5	.0	.1	.0	.0	.0	.0	1.0	5.8	10.3
SE	.1	.3	.6	3.3	.1	.9	.1	.3	.0	.1	.0	.0	.0	.0	.8	4.9	9.9
SSE	.1	.4	.6	3.4	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.8	4.8	9.3
S	.0	.3	1.0	5.6	.2	.9	.0	.2	.0	.0	.0	.0	.0	.0	1.2	7.0	9.1
SSW	.0	.1	.7	4.0	.1	.6	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.8	9.3
SW	.1	.3	.8	4.9	.2	1.3	.1	.6	.0	.1	.0	.0	.0	.0	1.2	7.2	10.2
WSW	.1	.3	.8	4.5	.3	1.5	.1	.7	.0	.2	.0	.1	.0	.0	1.2	7.3	10.8
W	.0	.2	.7	4.3	.4	2.2	.3	1.7	.2	1.2	.0	.3	.0	.0	1.7	9.9	13.3
WNW	.0	.2	.6	3.4	.3	1.7	.1	.8	.1	.3	.0	.1	.0	.0	1.1	6.5	11.8
NW	.1	.5	.7	4.2	.3	1.6	.1	.5	.0	.1	.0	.0	.0	.0	1.2	6.9	10.0
NNW	.1	.3	.7	3.9	.2	.9	.1	.3	.0	.0	.0	.0	.0	.0	1.0	5.5	9.5
CALM	.5	3.1													.5	3.1	
TOTAL	1.4	7.1	7.8	53.0	3.2	18.4	1.4	7.9	.5	2.8	.1	.5	.0	.0	17.2	100	10.1

HTL HOUGHTON LAKE, MI

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 4 / DAY

STATION NUMBER: 94814

NO. OBS.: 519

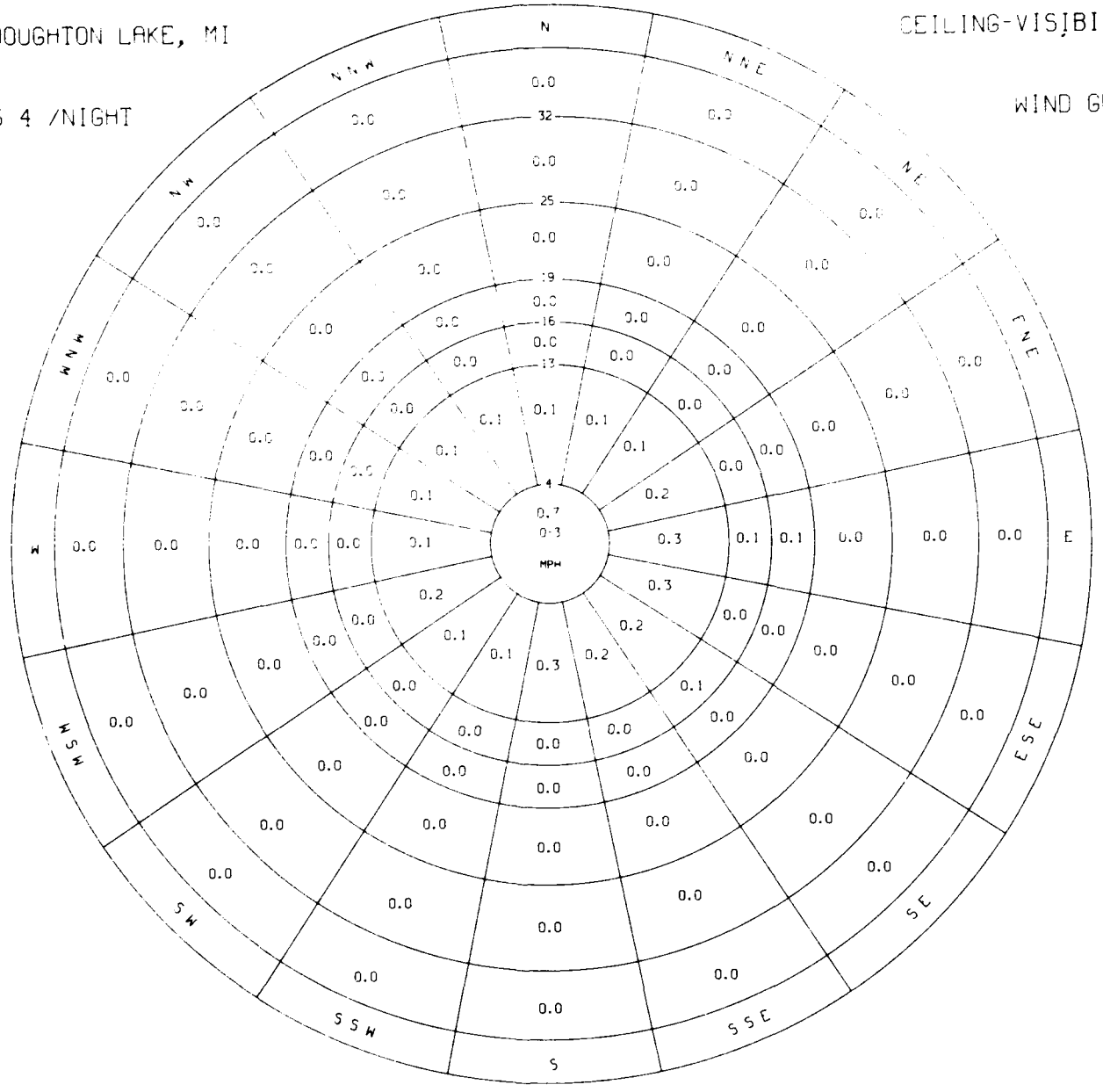
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.1	3.1	.0	.6	.0	1.0	.0	.4	.0	.0	.0	.0	.1	5.2	10.7
NNE	.0	.0	.1	3.1	.0	.8	.0	.4	.0	.0	.0	.0	.0	.0	.1	4.2	11.0
NE	.0	.2	.0	1.9	.0	1.3	.0	.0	.0	.6	.0	.0	.0	.0	.1	4.0	11.8
ENE	.0	.8	.1	3.7	.0	1.9	.0	.6	.0	.8	.0	.0	.0	.0	.2	7.7	11.4
E	.0	.2	.1	4.8	.0	1.0	.0	1.5	.0	.0	.0	.0	.0	.0	.2	7.5	10.9
ESE	.0	.2	.2	7.1	.0	1.3	.0	.6	.0	.0	.0	.0	.0	.0	.2	9.2	9.5
SE	.0	.4	.2	7.3	.0	1.9	.0	.4	.0	.0	.0	.0	.0	.0	.2	10.0	9.4
SSE	.0	.0	.2	6.6	.0	.6	.0	.4	.0	.0	.0	.0	.0	.0	.2	7.5	9.7
S	.0	.4	.1	5.8	.0	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.2	7.7	8.6
SSW	.0	.2	.1	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.3	7.9
SW	.0	.4	.1	3.9	.0	.4	.0	.4	.0	.4	.0	.2	.0	.0	.1	5.6	10.1
WSW	.0	.4	.1	2.1	.0	.6	.0	.0	.0	.4	.0	.0	.0	.0	.1	3.5	9.7
W	.0	.2	.1	3.3	.0	.6	.0	.8	.0	.4	.0	.0	.0	.0	.1	5.2	10.8
WNW	.0	.0	.1	3.5	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.1	5.2	10.0
NW	.0	.2	.0	1.5	.0	.8	.0	.6	.0	.2	.0	.0	.0	.0	.1	3.3	11.5
NNW	.0	.0	.1	3.3	.0	1.3	.0	.4	.0	.2	.0	.0	.0	.0	.1	5.2	10.3
CALM	.2	6.6													.2	6.6	
TOTAL	.2	10.2	1.5	63.0	.4	15.4	.2	7.9	.1	3.3	.0	.2	.0	.0	2.4	100	9.5

HTL HOUGHTON LAKE, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 4 / NIGHT

STATION NUMBER: 94814

NO. OBS.: 799

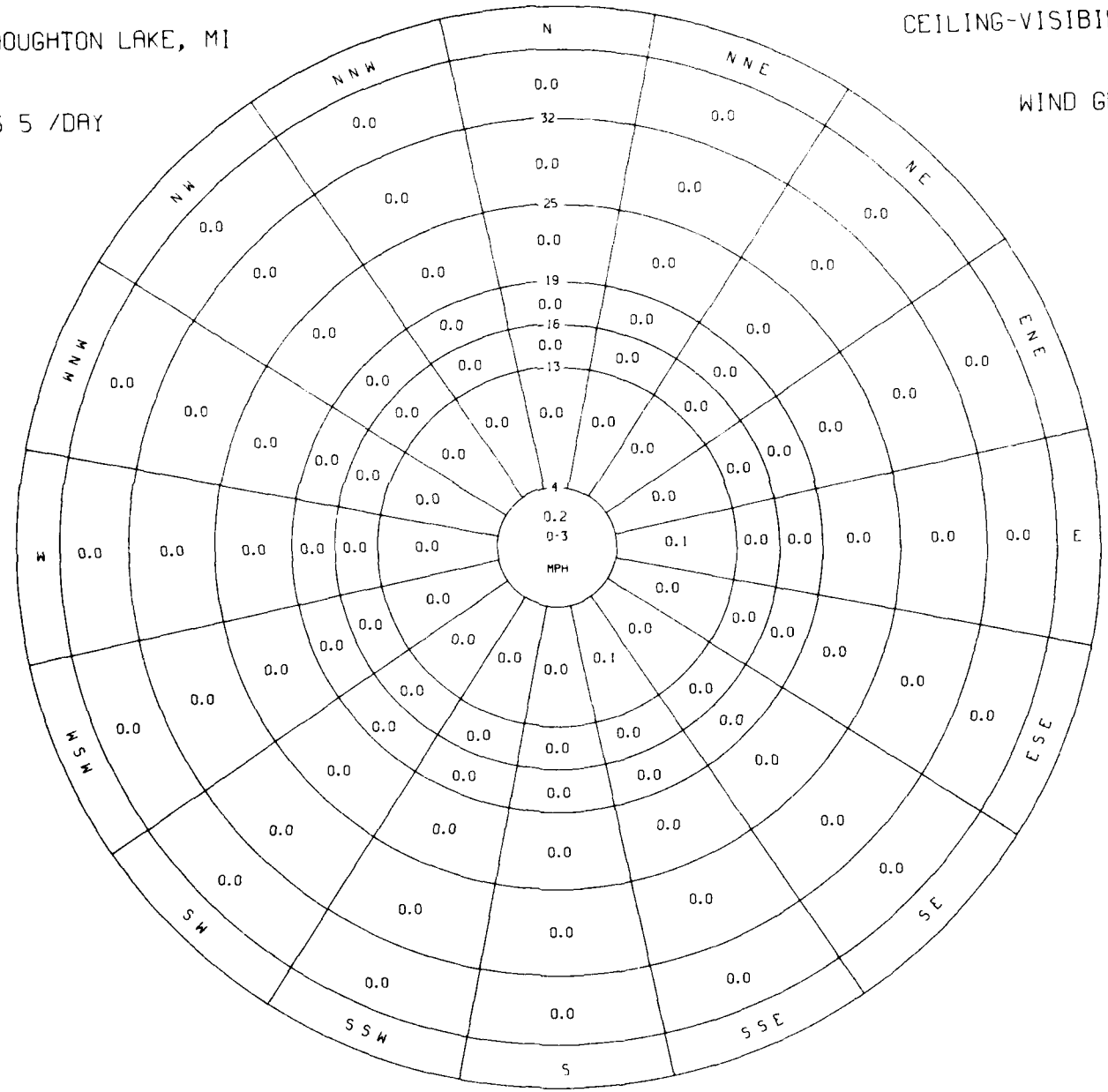
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.1	3.3	.0	.3	.0	.1	.0	.5	.0	.1	.0	.0	.2	4.8	9.6
NNE	.0	.4	.1	2.3	.0	.6	.0	.4	.0	.3	.0	.0	.0	.0	.2	3.9	9.7
NE	.0	.5	.1	3.3	.0	.5	.0	.3	.0	.1	.0	.0	.0	.0	.2	4.6	8.9
ENE	.0	1.0	.2	5.4	.0	1.1	.0	.6	.0	.3	.0	.0	.0	.0	.4	8.4	9.2
E	.0	.4	.3	6.5	.1	1.5	.1	1.3	.0	.3	.0	.1	.0	.0	.4	10.0	10.8
ESE	.0	.6	.3	6.1	.0	1.0	.0	.6	.0	.0	.0	.0	.0	.0	.4	8.4	8.7
SE	.0	.3	.2	3.8	.1	1.4	.0	.4	.0	.0	.0	.0	.0	.0	.2	5.8	9.6
SSE	.0	.9	.2	5.8	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.3	7.0	8.2
S	.0	.4	.3	7.4	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.3	8.0	7.8
SSW	.0	.3	.1	2.9	.0	.3	.0	.0	.0	.0	.0	.1	.0	.0	.1	3.5	8.7
SW	.0	.1	.1	3.3	.0	.6	.0	.3	.0	.1	.0	.0	.0	.0	.2	4.4	9.3
WSW	.0	.1	.2	3.9	.0	.4	.0	.5	.0	.6	.0	.0	.0	.0	.2	5.5	10.0
W	.0	.4	.1	2.8	.0	1.1	.0	.1	.0	.8	.0	.1	.0	.0	.2	5.3	11.6
WNW	.0	.5	.1	1.6	.0	.6	.0	.5	.0	.4	.0	.0	.0	.0	.2	3.6	11.0
NW	.0	.4	.1	2.5	.0	.6	.0	.3	.0	.3	.0	.0	.0	.0	.2	4.0	10.0
NNW	.0	.4	.1	2.4	.0	.4	.0	.0	.0	.1	.0	.0	.0	.0	.1	3.3	8.9
CALM	.4	9.6													.4	9.6	
TOTAL	.7	16.6	2.6	63.0	.4	10.8	.2	5.4	.2	3.8	.0	.5	.0	.0	4.2	100	8.6

HTL HOUGHTON LAKE, MI

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 5 / DAY

STATION NUMBER: 94814

NO. OBS.: 157

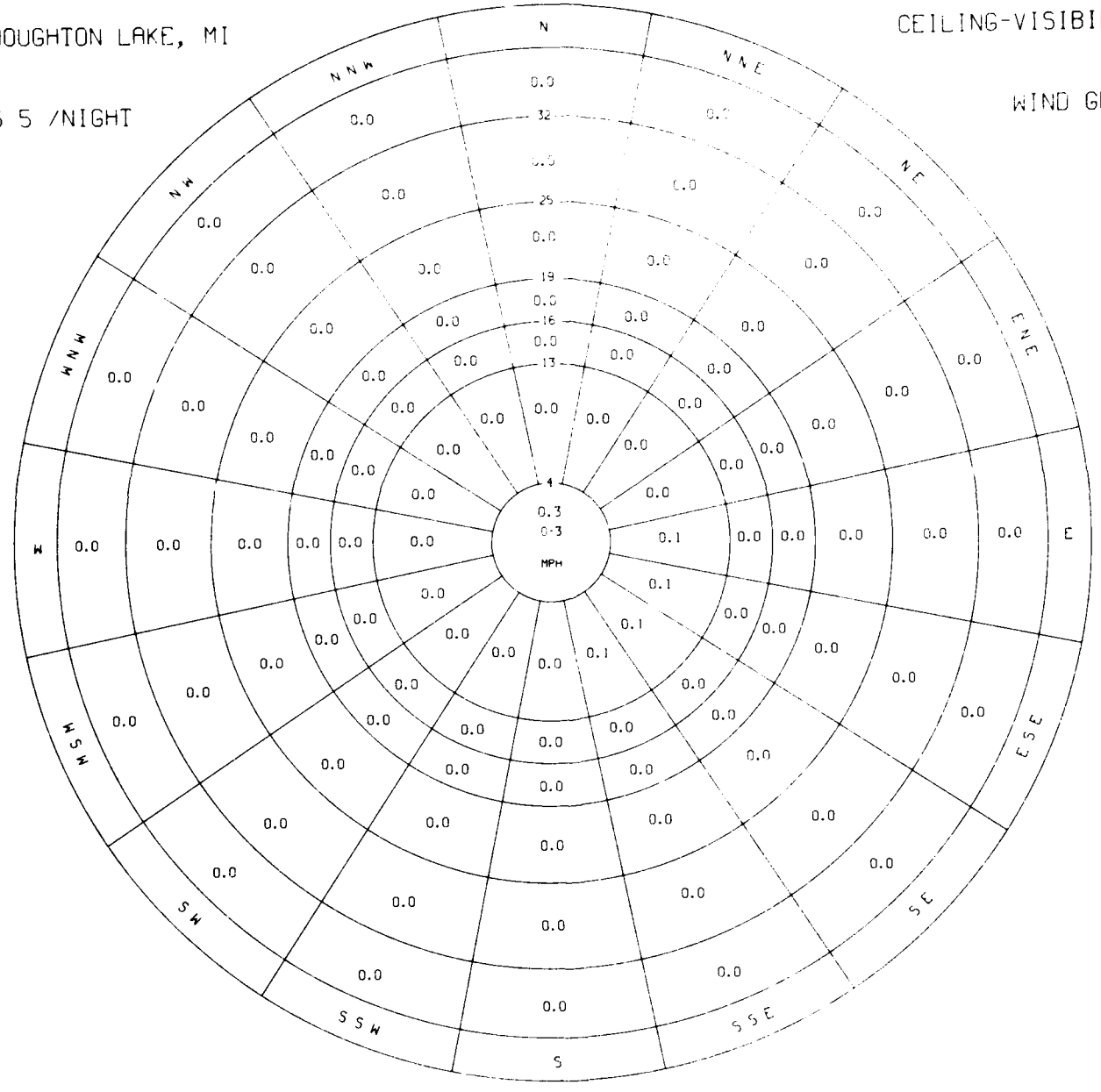
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	1.9	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	4.5	9.9
NNE	.0	.0	.0	.6	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	2.5	13.7
NE	.0	.6	.0	1.3	.0	1.9	.0	.6	.0	.6	.0	.0	.0	.0	.0	5.1	11.7
ENE	.0	3.2	.0	3.8	.0	2.5	.0	.0	.0	1.3	.0	.0	.0	.0	.1	10.8	9.1
E	.0	.6	.1	7.6	.0	.0	.0	1.3	.0	1.3	.0	.0	.0	.0	.1	10.8	10.1
ESE	.0	.6	.0	4.5	.0	1.3	.0	1.9	.0	.6	.0	.0	.0	.0	.1	8.9	11.3
SE	.0	.6	.0	3.8	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.7	10.1
SSE	.0	.6	.1	7.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.9	8.6
S	.0	.6	.0	5.7	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.6	8.3
SSW	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.5	10.2
SW	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	7.7
WSW	.0	1.3	.0	3.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	6.9
W	.0	.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	4.7
WNW	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	2.5	12.7
NW	.0	.0	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	8.0
NNW	.0	.0	.0	2.5	.0	1.3	.0	1.3	.0	1.3	.0	.6	.0	.0	.1	7.0	14.8
CALM	.1	10.8													.1	10.8	
TOTAL	.2	21.7	.4	51.6	.1	11.5	.1	7.6	.0	5.7	.0	1.9	.0	.0	.7	100	8.9

HTL HOUGHTON LAKE, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: [illegible] HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS E / NIGHT

STATION NUMBER: 94814

NO. OBS.: 160

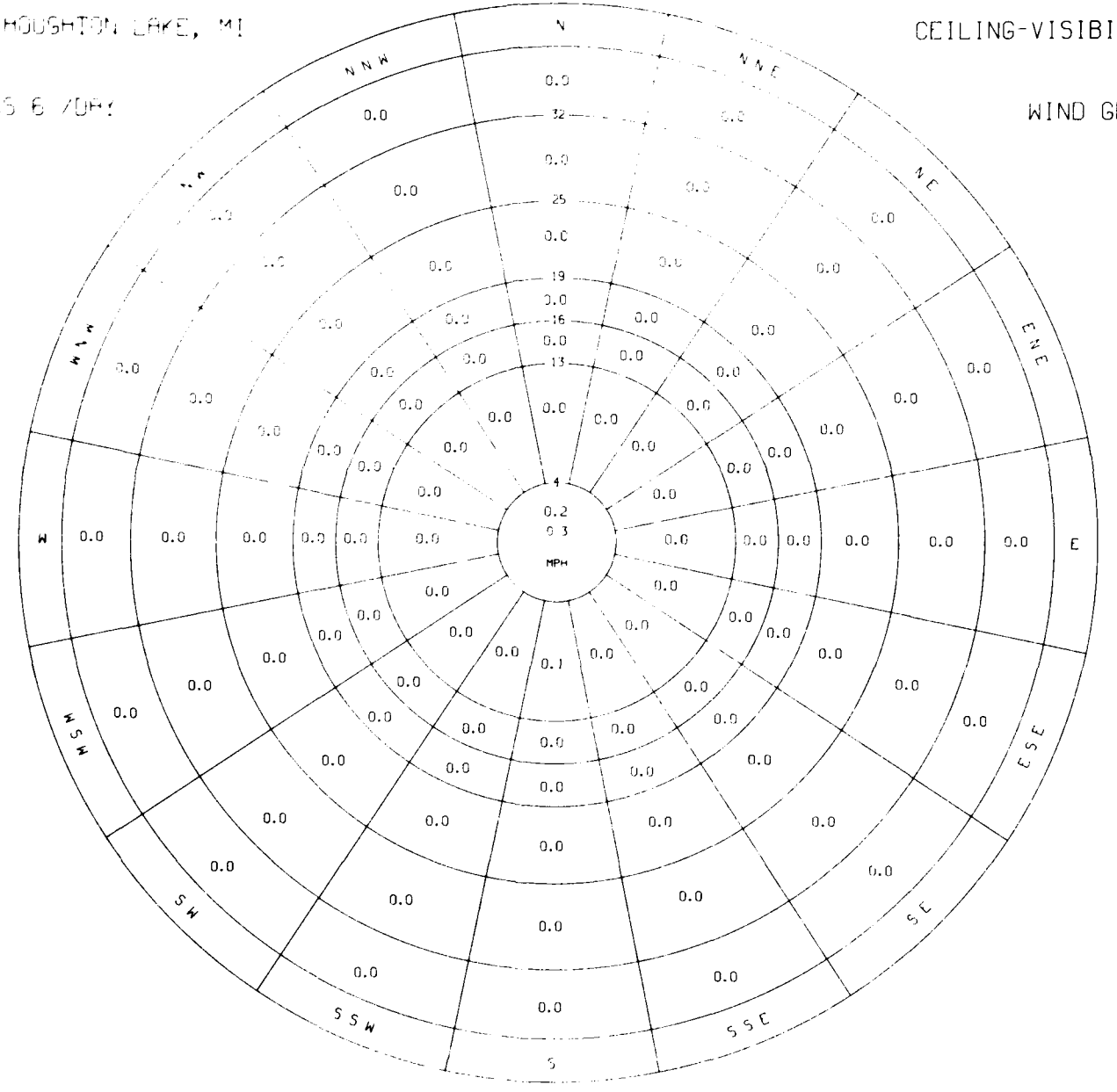
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	.6	17.0
NNE	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	5.5
NE	.0	.6	.0	2.5	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	4.4	7.7
ENE	.0	4.4	.0	3.1	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.1	5.9
E	.0	2.5	.1	8.7	.0	1.9	.0	.0	.0	.6	.0	.0	.0	.0	.1	13.7	7.6
ESE	.0	1.2	.1	8.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.4	6.8
SE	.0	2.5	.1	7.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.6	7.6
SSE	.0	.6	.1	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.9	6.7
S	.0	1.9	.0	4.4	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.9	7.1
SSW	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.0
SW	.0	1.2	.0	4.4	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.1	6.3	7.9
WSW	.0	.6	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	5.7
W	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.4
WNW	.0	.6	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.0
NW	.0	.6	.0	1.9	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	3.7	10.8
NNW	.0	1.2	.0	1.2	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	3.7	10.0
CALM	.1	11.2													.1	11.2	
TOTAL	.3	30.0	.5	60.6	.0	5.0	.0	1.9	.0	2.5	.0	.0	.0	.0	.8	100	6.5

HTL HOUGHTON LAKE, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: [illegible]

PERIOD: 1965-1978

STATION NUMBER: [illegible]

NO. OBS.: 125

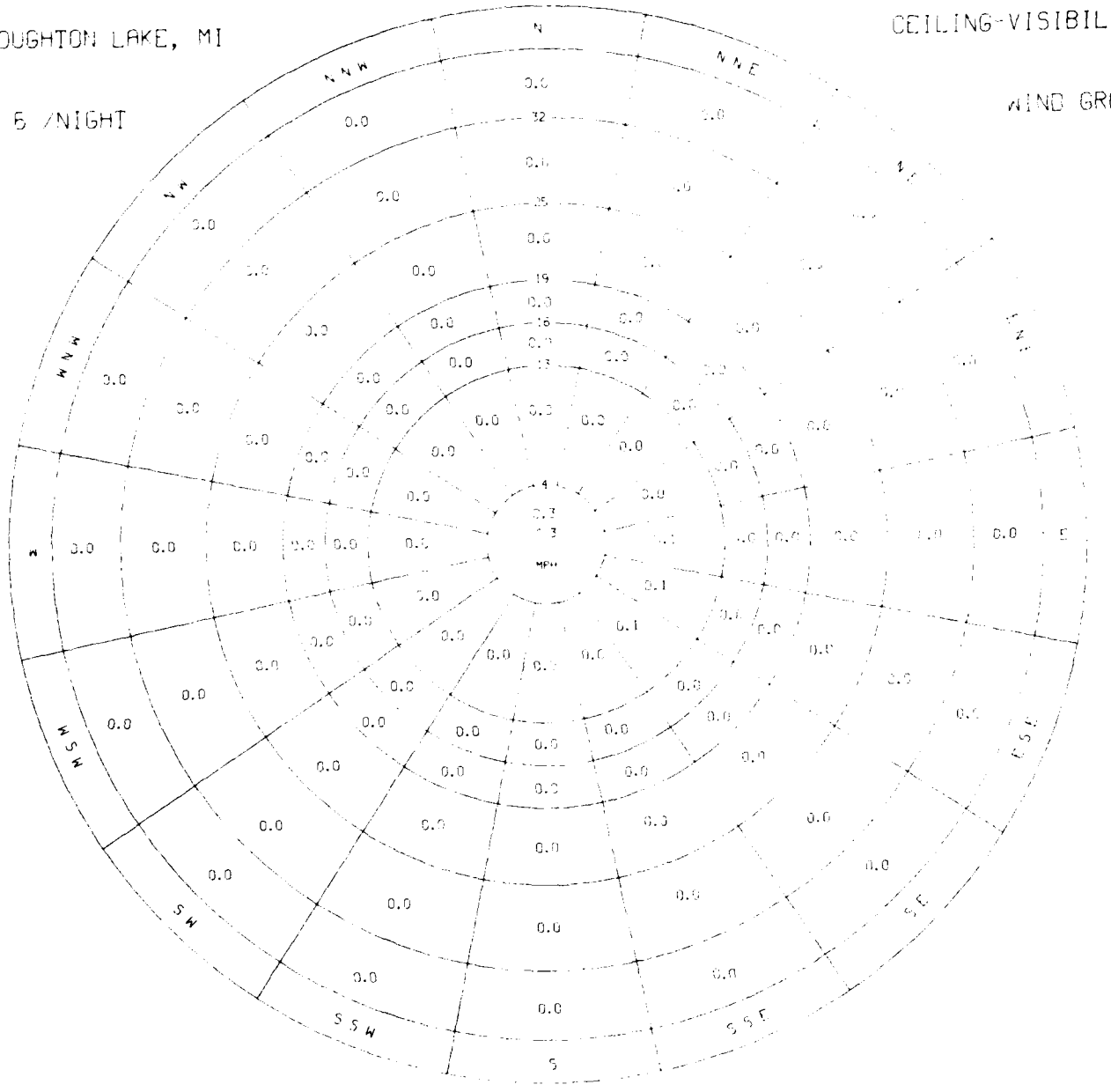
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	5.5
NNE	.0	.8	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.0	.0	.0	2.4	9.3
NE	.0	.0	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	5.7
ENE	.0	4.0	.0	4.0	.0	.0	.0	.0	.0	.8	.0	.8	.0	.0	.1	9.6	7.8
E	.0	3.2	.0	6.4	.0	.8	.0	.0	.0	.0	.0	.8	.0	.0	.1	11.2	7.5
ESE	.0	.8	.0	3.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.0
SE	.0	1.6	.0	4.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.4	7.5
SSE	.0	.8	.0	5.6	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	7.2	7.9
S	.0	3.2	.1	8.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	12.0	6.3
SSW	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	4.2
SW	.0	.8	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	3.2	10.5
WSW	.0	.8	.0	2.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.2	7.0
W	.0	1.6	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.2	6.6
WNW	.0	.8	.0	.8	.0	.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	3.2	13.0
NW	.0	.0	.0	1.6	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	2.4	8.7
NNW	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.0
CALM	.1	19.2													.1	19.2	
TOTAL	.2	51.2	.1	61.2	.0	.8	.0	2.4	.0	2.4	.0	2.4	.0	.0	.6	100	5.9

HTL HOUGHTON LAKE, MI

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: HTL HOUGHTON LAKE, MI

PERIOD: 1965-1978

CLASS 6 / NIGHT

STATION NUMBER: 94814

NO. OBS.: 151

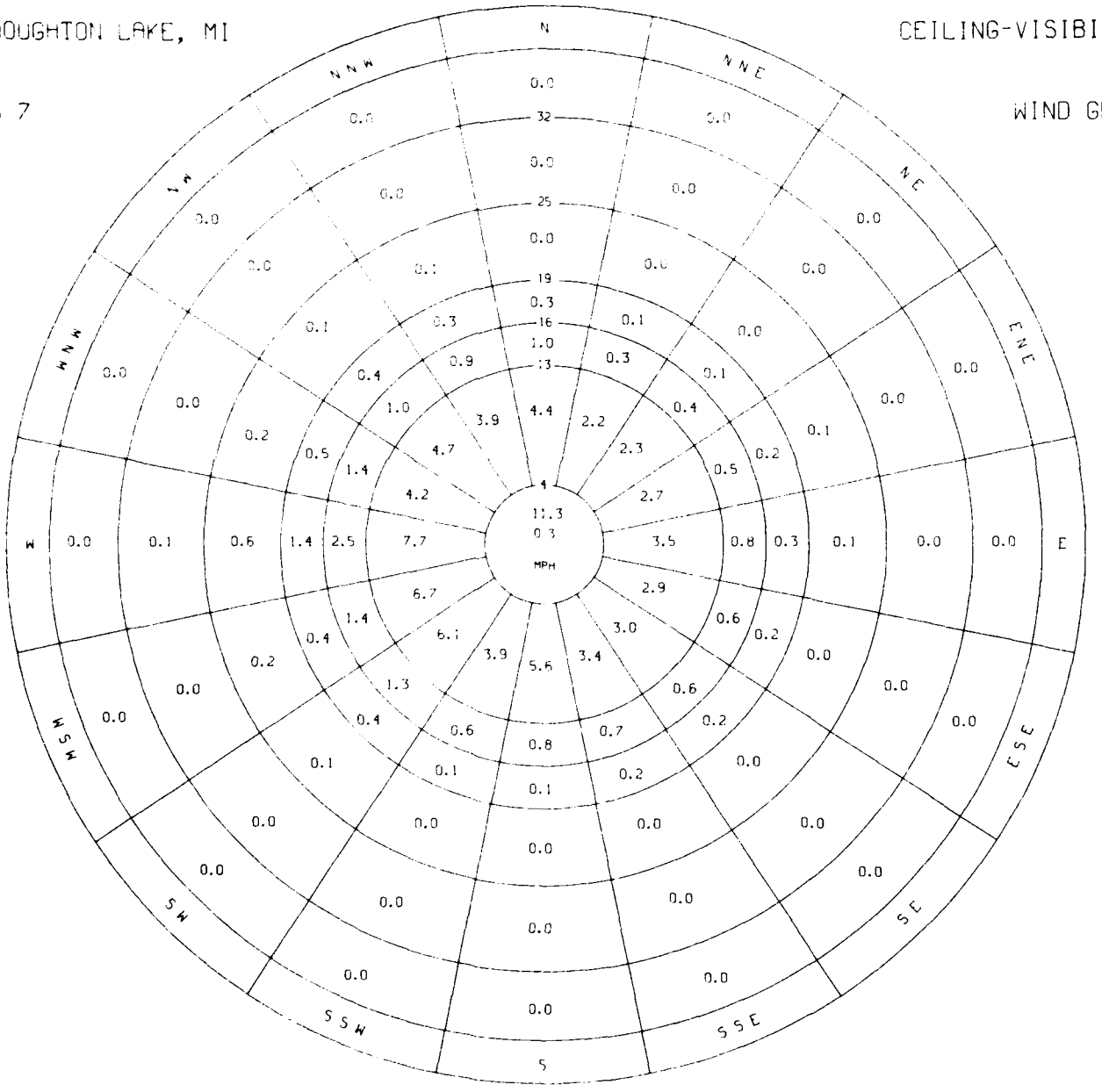
DIR	SPEED GROUPS (MPH) 0-3 A	0-3 B	4-12 A	4-12 B	13-15 A	13-15 B	16-18 A	16-18 B	19-24 A	19-24 B	25-31 A	25-31 B	32+ A	32+ B	TOTAL C	TOTAL D	AVG WIND SPEED
N	.0	.7	.6	3.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	6.0
NNE	.3	1.3	.3	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	1.3	3.0
NE	.3	3.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	4.1
ENE	.0	.3	.3	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	5.9
E	.0	2.6	.1	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.3	5.4
ESE	.0	2.0	.1	7.3	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.3	5.6
SE	.0	.7	.1	7.9	.2	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.9	8.3
SSE	.0	.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	8.0
S	.0	1.2	.0	5.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.3	7.5
SSW	.0	.3	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	6.3
SW	.0	2.0	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	0	.1	6.6	5.0
WSW	.0	1.3	.0	4.6	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.0	6.0	6.1
W	.0	.7	.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	7.1
WNW	.0	.7	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	6.7
NW	.0	.7	.0	1.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	4.7
NNW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
CALM	.2	19.2													.2	19.2	
TOTAL	.8	35.8	5.6	62.3	.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	100	5.1

HTL HOUGHTON LAKE, MI

CEILING-VISIBILITY

CLASS 7

WIND GRAPH


N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
MPH
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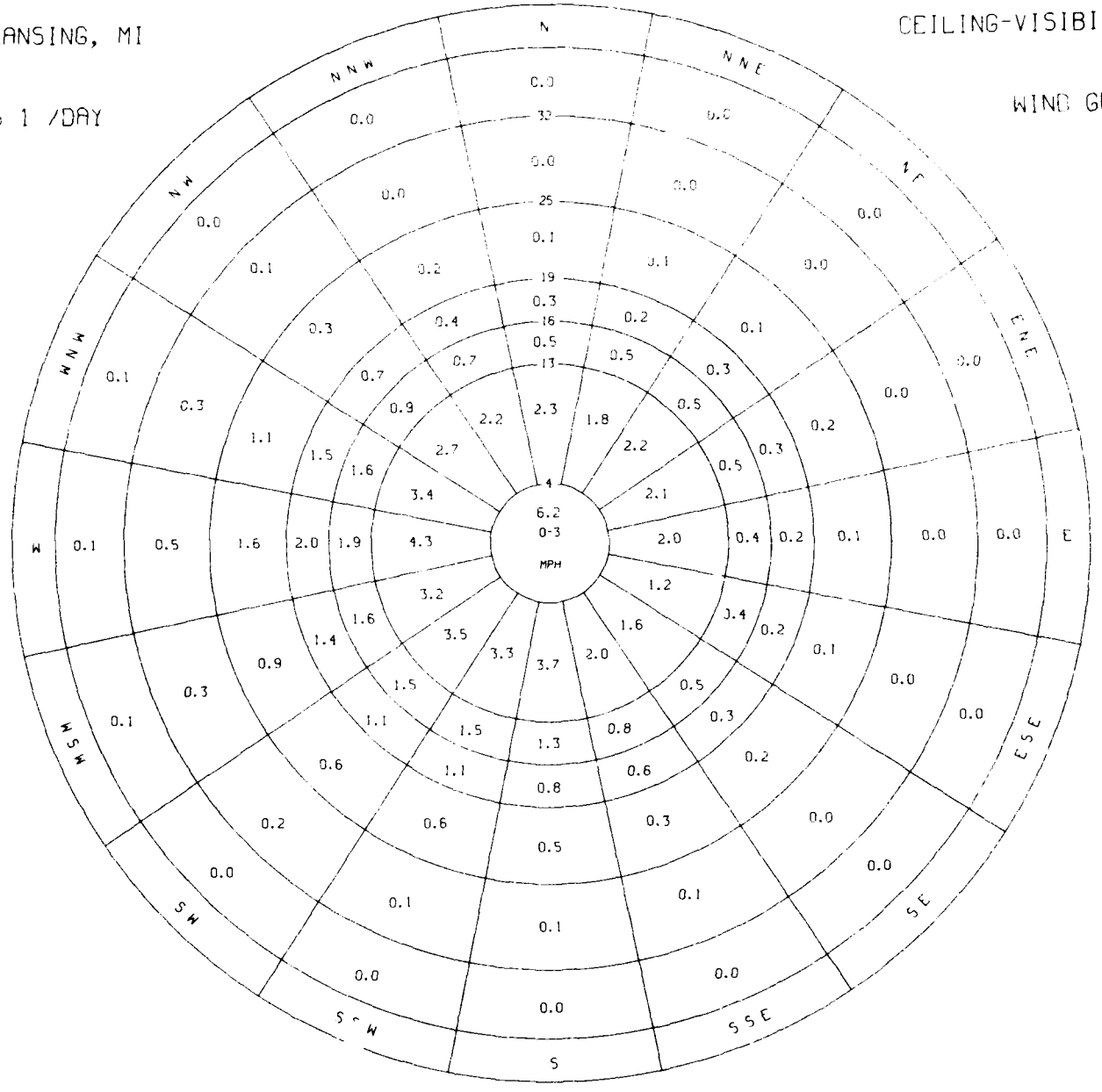
LAN LANSING, MI

CEILING-VISIBILITY

CLASS 1 /DAY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 1 / DAY

STATION NUMBER: 14836

NO. OBS.: 33087

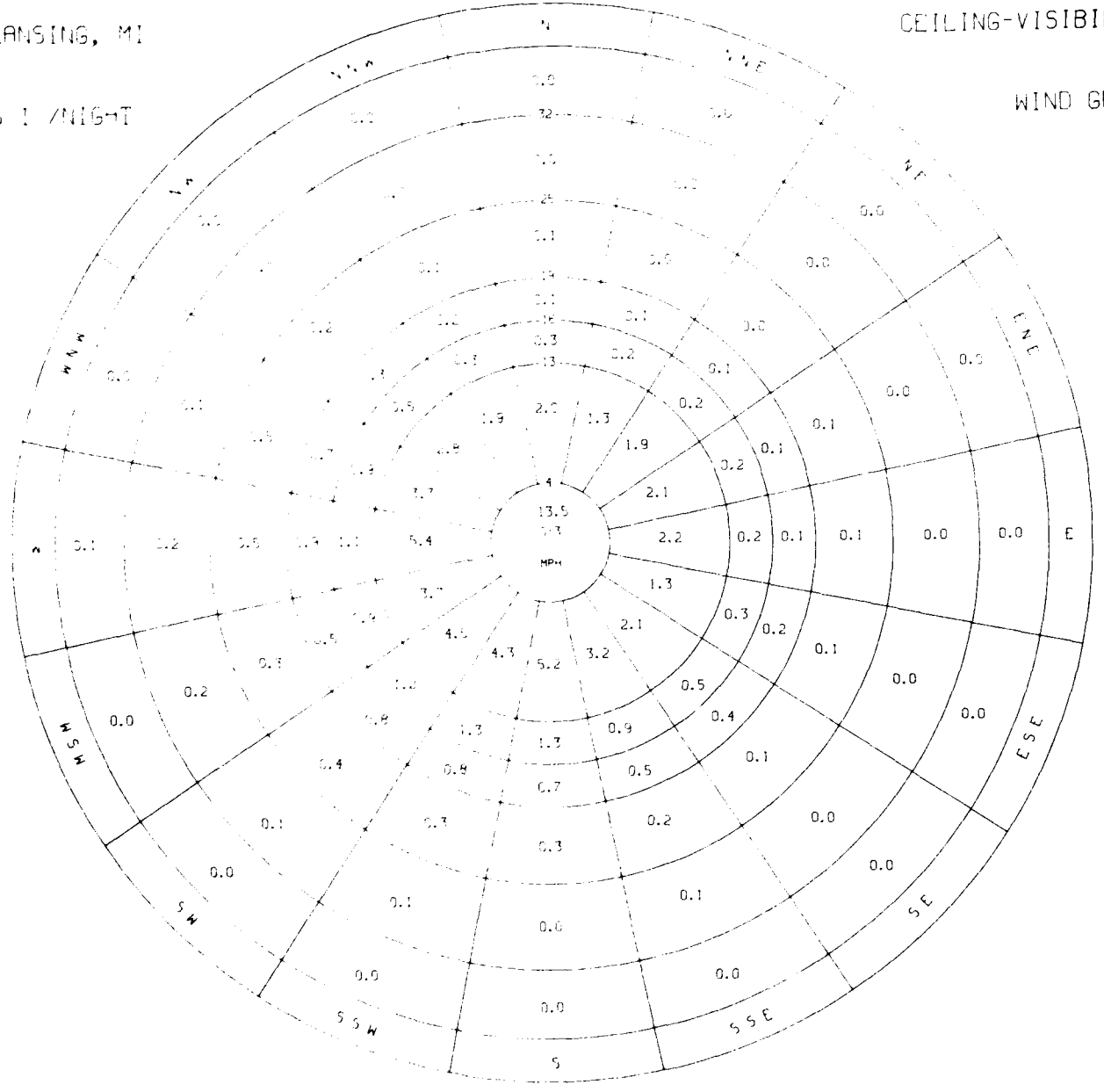
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	2.3	2.8	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.5	4.1	9.8
NNE	.2	.2	1.8	2.2	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.8	3.4	10.2
NE	.2	.2	2.2	2.6	.5	.6	.3	.3	.1	.2	.0	.0	.0	.0	3.3	3.9	10.0
ENE	.2	.2	2.1	2.5	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	3.3	3.9	10.5
E	.2	.3	2.0	2.4	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	2.9	3.5	9.6
ESE	.1	.1	1.2	1.5	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.1	2.5	10.9
SE	.1	.2	1.6	1.9	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	2.8	3.4	11.1
SSE	.1	.2	2.0	2.4	.8	1.0	.6	.7	.3	.4	.1	.1	.0	.0	3.9	4.7	12.2
S	.2	.3	3.7	4.4	1.3	1.6	.8	1.0	.5	.6	.1	.1	.0	.0	6.6	8.0	11.7
SSW	.2	.2	3.3	4.0	1.5	1.9	1.1	1.3	.6	.7	.1	.1	.0	.0	6.9	8.2	12.6
SW	.2	.3	3.5	4.1	1.5	1.8	1.1	1.3	.6	.7	.2	.2	.0	.0	7.0	8.4	12.4
WSW	.2	.3	3.2	3.8	1.6	1.9	1.4	1.6	.9	1.1	.3	.4	.1	.1	7.7	9.2	13.8
W	.3	.4	4.3	5.2	1.9	2.3	2.0	2.4	1.6	1.9	.5	.6	.1	.1	10.7	12.9	14.0
WNW	.2	.3	3.4	4.1	1.6	1.9	1.5	1.8	1.1	1.3	.3	.4	.1	.1	8.1	9.7	13.6
NW	.2	.3	2.7	3.2	.9	1.1	.7	.8	.3	.4	.1	.1	.0	.0	5.0	6.0	11.7
NNW	.2	.2	2.2	2.6	.7	.8	.4	.5	.2	.2	.0	.0	.0	.0	3.7	4.5	11.0
CALM	3.1	3.7													3.1	3.7	
TOTAL	5.2	7.4	41.5	49.7	15.1	18.1	11.5	13.7	7.0	8.4	1.8	2.2	.4	.4	83.5	100	11.7

LAN LANSING, MI

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAN LANSING, MI

PERIOD: 1949-1978

CLASS 1 / NIGHT

STATION NUMBER: 14836

NO. OBS.: 27494

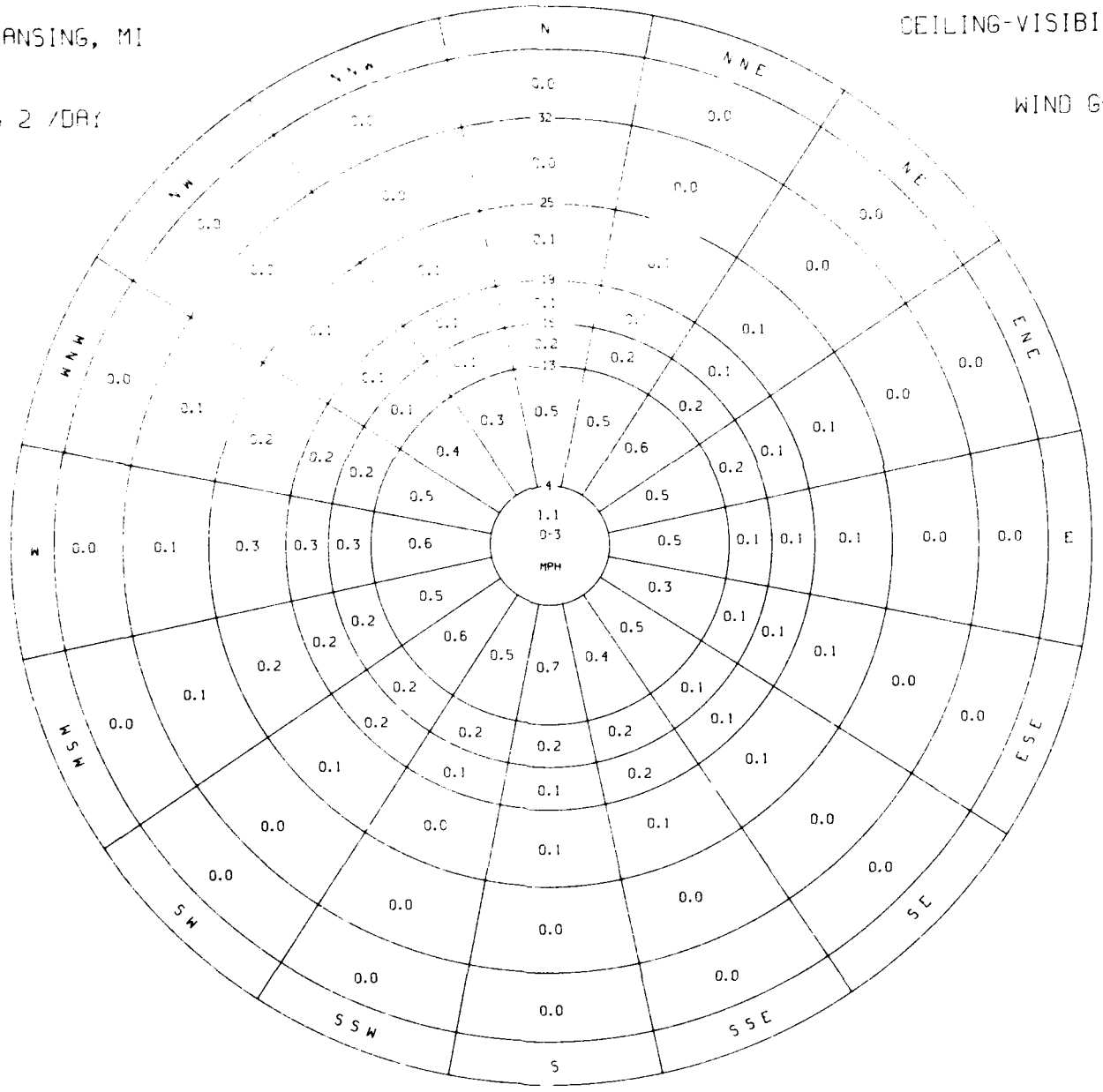
DIR	SPEED GROUPS (MPH)														TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.3	2.0	2.4	.3	.4	.1	.2	.1	.1	.0	.0	.0	.0	2.7	3.3	8.6
NNE	.2	.2	1.3	1.6	.2	.2	.1	.1	.0	.1	.0	.0	.0	.0	1.9	2.3	8.6
NE	.3	.3	1.9	2.3	.2	.3	.1	.2	.0	.0	.0	.0	.0	.0	2.6	3.2	8.3
ENE	.3	.4	2.1	2.5	.2	.3	.1	.1	.1	.1	.0	.0	.0	.0	2.8	3.4	8.4
E	.4	.5	2.2	2.6	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	3.0	3.6	8.0
ESE	.2	.2	1.3	1.6	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.0	2.4	9.7
SE	.3	.3	2.1	2.6	.5	.6	.4	.4	.1	.2	.0	.0	.0	.0	3.4	4.1	10.3
SSE	.2	.3	3.2	3.9	.9	1.1	.5	.7	.2	.3	.1	.1	.0	.0	5.1	6.2	11.0
S	.3	.4	5.2	6.3	1.3	1.5	.7	.8	.3	.4	.0	.0	.0	.0	7.8	9.5	10.4
SSW	.3	.4	4.3	5.3	1.3	1.6	.8	.9	.3	.4	.1	.1	.0	.0	7.1	8.6	10.9
SW	.5	.6	4.5	5.4	1.2	1.5	.8	.9	.4	.5	.1	.1	.0	.0	7.4	9.1	10.6
WSW	.3	.3	3.7	4.5	.9	1.0	.5	.6	.3	.4	.2	.2	.0	.1	5.9	7.1	11.0
W	.5	.6	5.4	6.6	1.1	1.3	.9	1.1	.5	.6	.2	.3	.1	.1	8.8	10.7	10.8
WNW	.4	.5	3.7	4.5	.9	1.1	.7	.9	.5	.6	.1	.2	.0	.0	6.3	7.7	11.1
NW	.3	.3	2.8	3.4	.5	.6	.3	.4	.2	.2	.0	.0	.0	.0	4.0	4.9	9.6
NNW	.2	.3	1.9	2.3	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	2.7	3.3	9.4
CALM	8.7	10.6													8.7	10.6	
TOTAL	13.5	16.5	47.6	57.8	10.1	12.3	6.6	8.0	3.3	4.0	.9	1.1	.2	.2	82.3	100	9.1

LAN LANSING, MI

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: CAN LANSING, MI

PERIOD: 1949-1978

CLASS 2 / DAY

STATION NUMBER: 14836

NO. OBS.: 6529

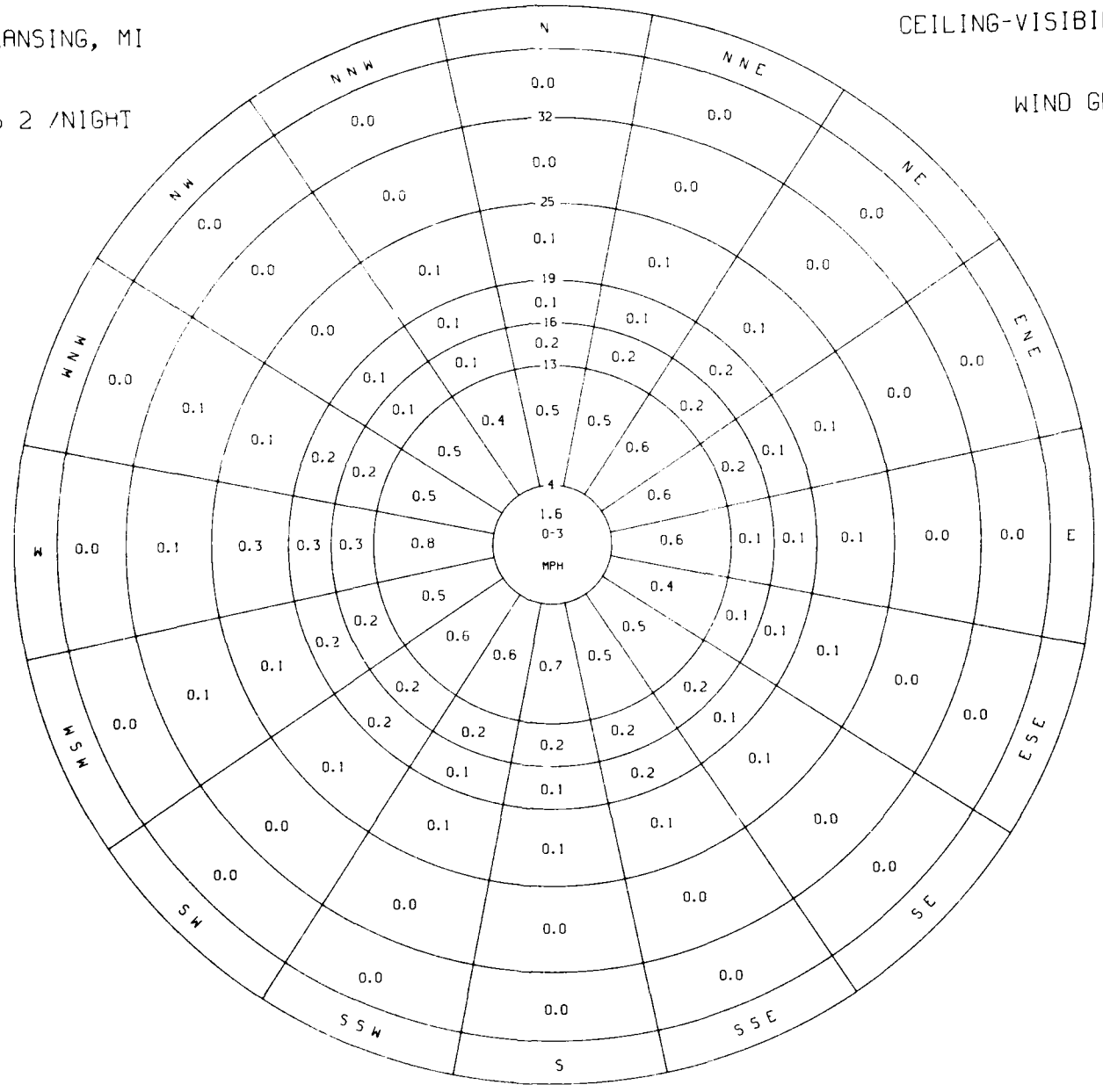
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.5	3.3	.2	1.0	.1	.7	.1	.3	.0	.0	.0	.0	.9	5.6	11.3
NNE	.0	.1	.5	3.0	.2	1.1	.1	.8	.1	.7	.0	.2	.0	.0	1.0	5.9	12.7
NE	.1	.4	.6	3.9	.2	1.4	.1	.9	.1	.4	.0	.2	.0	.0	1.2	7.2	11.7
ENE	.0	.2	.5	3.3	.2	1.2	.1	.8	.1	.4	.0	.2	.0	.1	1.0	6.0	12.0
E	.0	.3	.5	3.2	.1	.7	.1	.5	.1	.4	.0	.1	.0	.0	.9	5.2	10.9
ESE	.0	.2	.3	1.8	.1	.6	.1	.7	.1	.3	.0	.1	.0	.0	.6	3.8	12.4
SE	.0	.2	.5	2.8	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.8	5.1	12.1
SSE	.0	.1	.4	2.3	.2	1.2	.2	1.0	.1	.6	.0	.1	.0	.0	.9	5.3	13.0
S	.0	.2	.7	4.1	.2	1.4	.1	.9	.1	.4	.0	.0	.0	.0	1.1	6.9	11.3
SSW	.0	.1	.5	3.2	.2	1.2	.1	.9	.0	.2	.0	.1	.0	.0	1.0	5.8	11.6
SW	.0	.2	.6	3.4	.2	1.3	.2	1.1	.1	.6	.0	.2	.0	.1	1.1	6.8	12.6
WSW	.0	.2	.5	3.3	.2	1.2	.2	1.2	.2	1.0	.1	.3	.0	.1	1.2	7.3	13.6
W	.1	.3	.6	3.8	.3	1.7	.3	1.5	.3	1.8	.1	.4	.0	.1	1.6	9.6	14.0
WNW	.0	.2	.5	3.0	.2	1.1	.2	1.3	.2	1.1	.1	.3	.0	.1	1.2	7.2	13.8
NW	.0	.2	.4	2.4	.1	.7	.1	.7	.1	.4	.0	.1	.0	.1	.7	4.5	12.2
NNW	.0	.2	.3	2.0	.1	.6	.1	.7	.1	.4	.0	.1	.0	.0	.7	4.0	12.2
CALM	.6	3.8													.6	3.8	
TOTAL	1.1	7.0	8.1	48.9	2.8	17.2	2.4	14.4	1.5	9.3	.4	2.6	.1	.6	16.5	100	12.0

LAN LANSING, MI

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 2 / NIGHT

STATION NUMBER: 14836

NO. OBS.: 5933

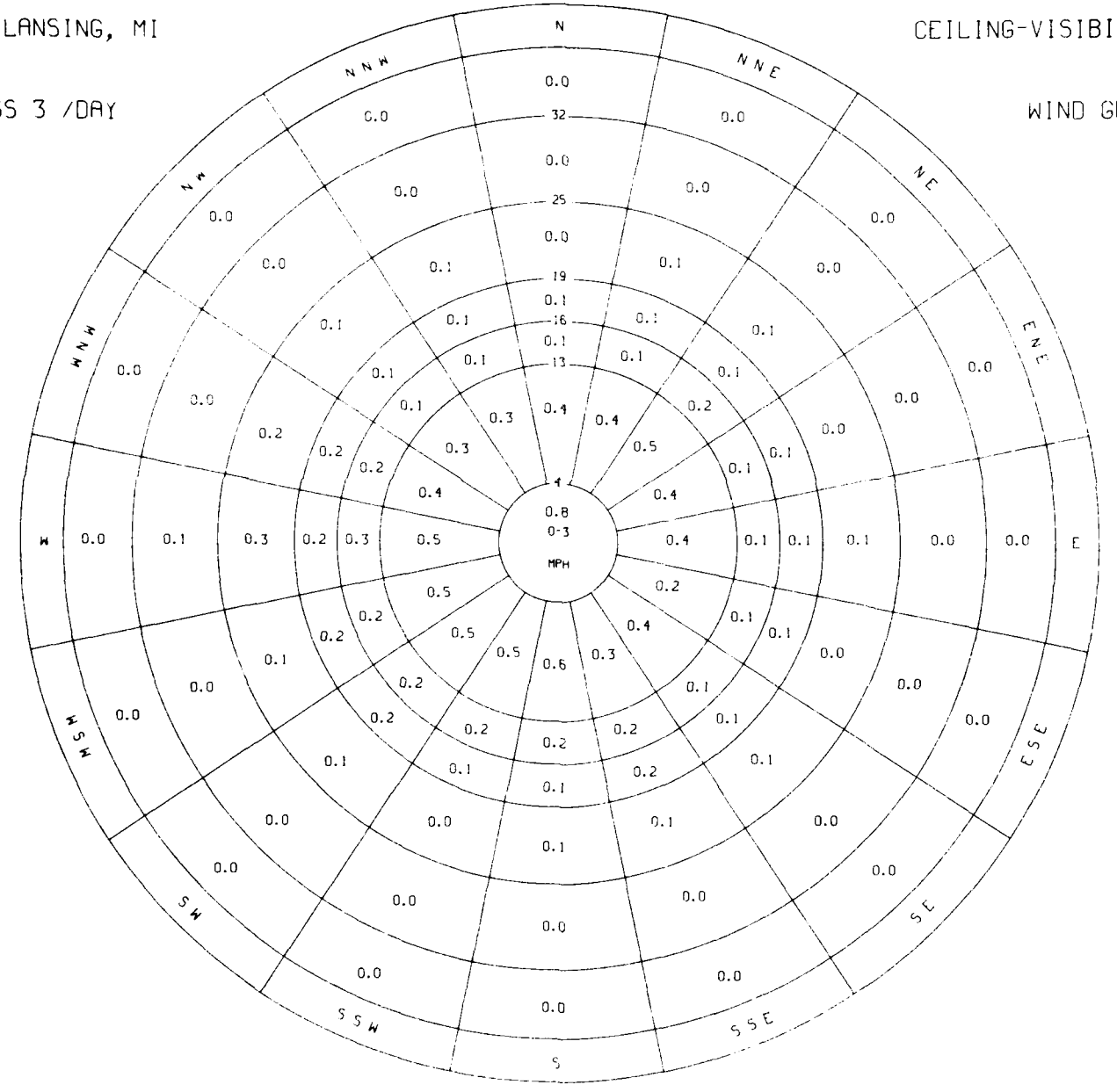
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.5	2.9	.2	1.1	.1	.6	.1	.4	.0	.1	.0	.0	.9	5.3	11.1
N N E	.0	.2	.5	2.7	.2	1.0	.1	.7	.1	.4	.0	.2	.0	.0	.9	5.3	12.1
N E	.1	.3	.6	3.5	.2	1.3	.2	.9	.1	.6	.0	.2	.0	.0	1.2	6.9	12.1
E N E	.1	.3	.6	3.7	.2	1.0	.1	.7	.1	.5	.0	.2	.0	.0	1.1	6.3	11.4
E	.1	.3	.6	3.5	.1	.8	.1	.5	.1	.3	.0	.1	.0	.0	1.0	5.5	10.3
E S E	.0	.1	.4	2.1	.1	.8	.1	.5	.1	.4	.0	.1	.0	.0	.7	3.9	12.1
S E	.0	.1	.5	2.8	.2	.9	.1	.8	.1	.5	.0	.0	.0	.0	.9	5.2	11.9
S S E	.0	.2	.5	3.0	.2	1.0	.2	1.0	.1	.3	.0	.0	.0	.0	1.0	5.5	11.9
S	.1	.3	.7	3.9	.2	1.0	.1	.7	.1	.4	.0	.1	.0	.0	1.1	6.4	11.0
S S W	.0	.2	.6	3.4	.2	1.0	.1	.7	.1	.4	.0	.0	.0	.0	1.0	5.7	11.2
S W	.0	.3	.6	3.5	.2	1.3	.2	1.3	.1	.4	.0	.1	.0	.0	1.2	6.9	12.1
W S W	.0	.1	.5	2.8	.2	1.1	.2	1.3	.1	.8	.1	.4	.0	.1	1.2	6.7	13.8
W	.0	.3	.8	4.5	.3	1.7	.3	1.6	.3	1.6	.1	.5	.0	.1	1.8	10.3	13.8
W N W	.0	.2	.5	3.0	.2	.9	.2	1.2	.1	.6	.1	.4	.0	.0	1.1	6.3	12.8
N W	.1	.3	.5	2.5	.1	.6	.1	.5	.0	.3	.0	.1	.0	.0	.8	4.5	11.2
N N W	.0	.1	.4	2.2	.1	.7	.1	.7	.1	.4	.0	.1	.0	.1	.7	4.1	12.4
C A L M	.9	5.3													.9	5.3	
T O T A L	1.6	8.8	8.9	50.3	2.9	16.3	2.4	13.6	1.5	8.2	.4	2.5	.1	.4	17.7	100	11.4

LAN LANSING, MI

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 3 / DAY

STATION NUMBER: 14836

NO. OBS.: 5356

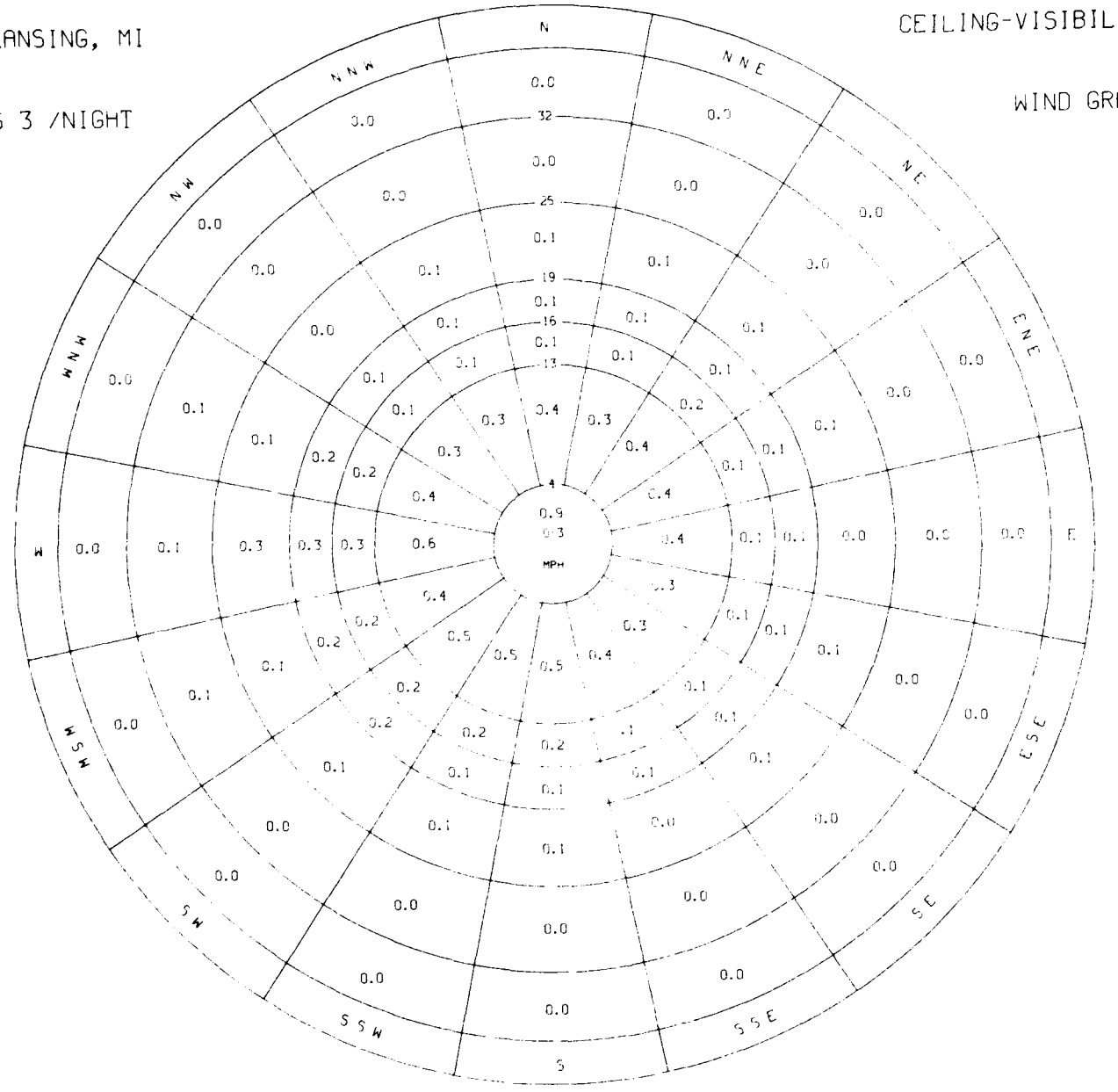
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.4	3.0	.1	1.1	.1	.8	.0	.3	.0	.1	.0	.0	.7	5.3	11.6
NNE	.0	.1	.4	2.8	.1	1.0	.1	.8	.1	.6	.0	.1	.0	.0	.7	5.4	12.6
NE	.0	.3	.5	3.7	.2	1.3	.1	.8	.1	.4	.0	.2	.0	.0	.9	6.7	11.8
ENE	.0	.1	.4	3.0	.1	1.1	.1	.8	.0	.3	.0	.2	.0	.1	.8	5.6	12.3
E	.0	.1	.4	2.8	.1	.6	.1	.5	.1	.4	.0	.1	.0	.0	.6	4.5	11.5
ESE	.0	.2	.2	1.8	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.5	3.8	12.5
SE	.0	.2	.4	2.8	.1	.9	.1	.7	.1	.4	.0	.1	.0	.0	.7	5.2	12.2
SSE	.0	.1	.3	2.2	.2	1.3	.2	1.1	.1	.5	.0	.0	.0	.0	.7	5.3	13.2
S	.0	.2	.6	4.1	.2	1.4	.1	1.0	.1	.5	.0	.0	.0	.0	1.0	7.2	11.4
SSW	.0	.1	.5	3.5	.2	1.4	.1	1.0	.0	.3	.0	.1	.0	.0	.9	6.4	11.8
SW	.0	.2	.5	3.6	.2	1.4	.2	1.3	.1	.7	.0	.2	.0	.1	1.0	7.4	12.8
WSW	.0	.1	.5	3.4	.2	1.3	.2	1.4	.1	1.1	.0	.4	.0	1	1.1	7.8	14.0
W	.0	.2	.5	3.8	.3	1.9	.2	1.8	.3	2.0	.1	.4	.0	.1	1.4	10.2	14.5
WNW	.0	.2	.4	3.1	.2	1.3	.2	1.5	.2	1.3	.0	.3	.0	.1	1.0	7.7	14.0
NW	.0	.1	.3	2.4	.1	.7	.1	.7	.1	.4	.0	.1	.0	.0	.6	4.5	12.1
NNW	.0	.3	.3	1.9	.1	.7	.1	.7	.1	.4	.0	.1	.0	.0	.5	4.0	12.3
CALM	.4	2.9													.4	2.9	
TOTAL	.8	5.6	6.5	47.7	2.4	18.1	2.1	15.6	1.3	9.9	.3	2.6	.1	.5	13.5	100	12.3

LAN LANSING, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 3 (NIGHT)

STATION NUMBER: 14836

NO. OBS.: 4583

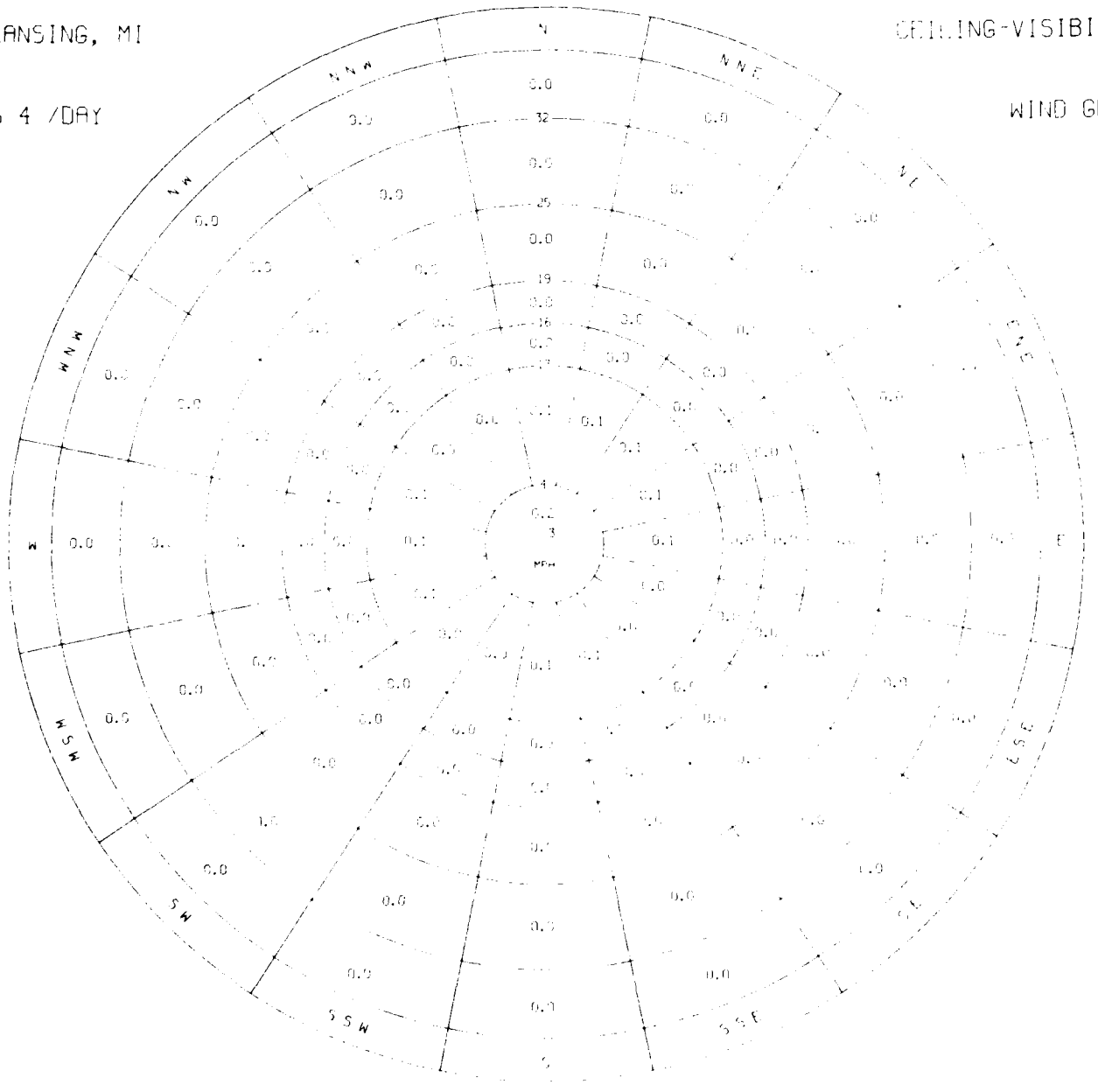
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.4	2.8	.1	1.0	.1	.5	.1	.4	.0	.1	.0	.0	.7	5.1	11.4
N N E	.0	.2	.3	2.4	.1	1.0	.1	.8	.1	.4	.0	.1	.0	.0	.7	4.9	12.4
N E	.0	.2	.4	3.2	.2	1.2	.1	.8	.1	.6	.0	.1	.0	.0	.8	6.1	12.1
E N E	.0	.2	.4	3.0	.1	.9	.1	.7	.1	.5	.0	.2	.0	.0	.8	5.7	12.2
E	.0	.2	.4	2.7	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.6	4.6	11.1
E S E	.0	.0	.3	2.0	.1	.8	.1	.4	.1	.4	.0	.1	.0	.0	.5	3.8	12.7
S E	.0	.1	.3	2.5	.1	1.0	.1	.9	.1	.4	.0	.0	.0	.0	.7	4.9	12.3
S S E	.0	.1	.4	3.1	.1	1.0	.1	1.0	.0	.3	.0	.0	.0	.0	.8	5.7	12.0
S	.0	.2	.5	4.0	.2	1.1	.1	.7	.1	.5	.0	.1	.0	.0	.9	6.6	11.4
S S W	.0	.2	.5	3.6	.2	1.2	.1	.9	.1	.4	.0	.0	.0	.0	.9	6.4	11.5
S W	.0	.2	.5	3.8	.2	1.5	.2	1.6	.1	.5	.0	.1	.0	.0	1.1	7.8	12.5
W S W	.0	.1	.4	3.0	.2	1.3	.2	1.5	.1	1.0	.1	.5	.0	.1	1.0	7.5	14.4
W	.0	.2	.6	4.6	.3	2.0	.3	2.0	.3	2.1	.1	.6	.0	.2	1.6	11.9	14.5
W N W	.0	.3	.4	3.1	.2	1.1	.2	1.5	.1	.7	.1	.4	.0	.0	1.0	7.2	13.2
N W	.0	.2	.3	2.3	.1	.8	.1	.6	.0	.3	.0	.2	.0	.0	.6	4.3	12.2
N N W	.0	.0	.3	2.2	.1	.7	.1	.7	.1	.4	.0	.1	.0	.0	.6	4.2	12.7
C A L M	.5	3.7													.5	3.7	
T O T A L	.9	6.4	6.6	48.3	2.4	17.6	2.1	15.2	1.3	9.2	.4	2.9	.1	.4	13.7	100	12.1

LAN LANSING, MI

CEILING-VISIBILITY

CLASS 4 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 4 / DAY

STATION NUMBER: 14836

NO. OBS.: 800

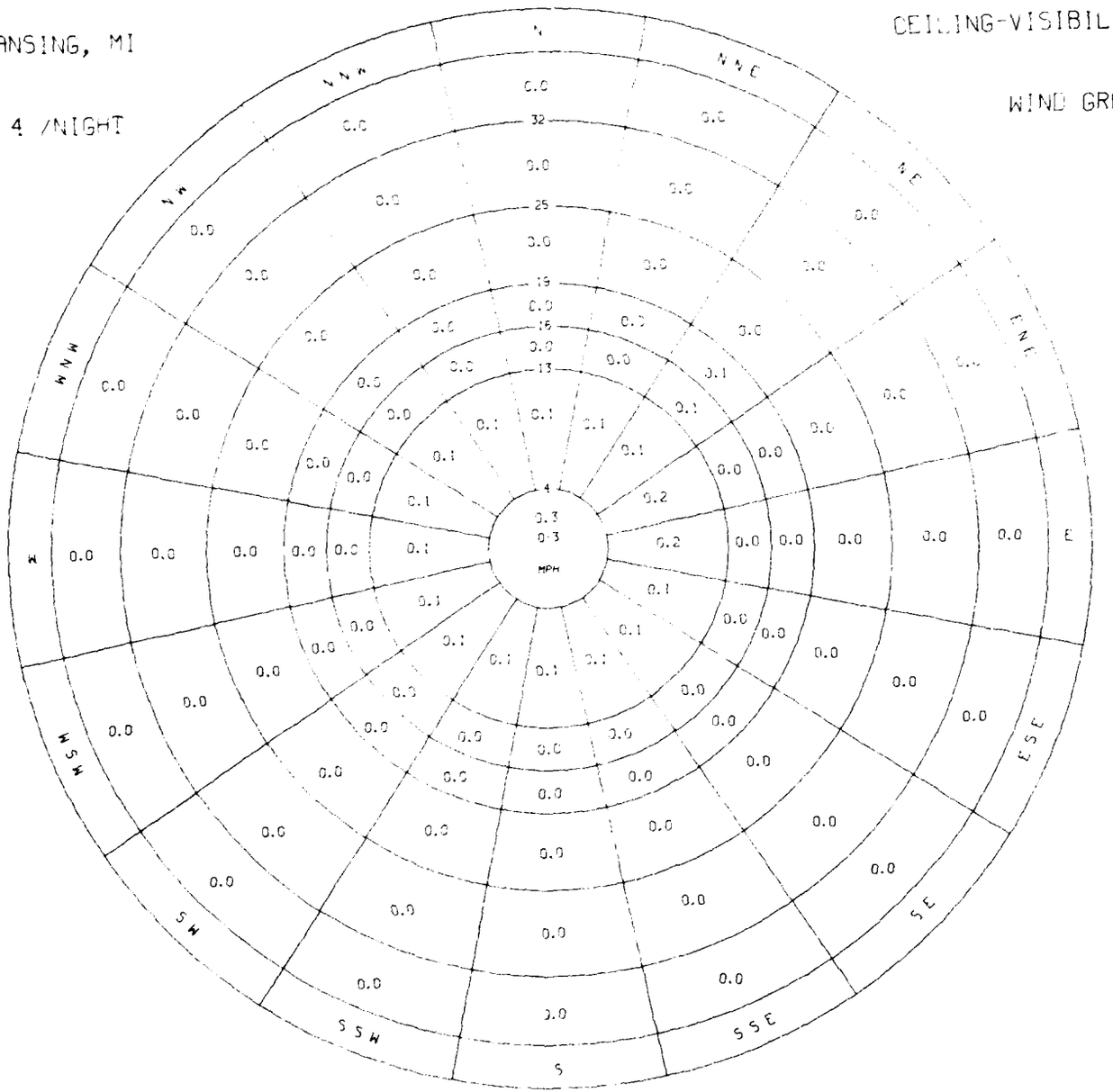
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.1	5.0	.0	.4	.0	.7	.0	.2	.0	.0	.0	.0	.1	6.5	10.3
NNE	.0	.4	.1	4.1	.0	1.2	.0	1.0	.0	.9	.0	.6	.0	.0	.2	8.2	12.8
NE	.0	.1	.1	4.5	.0	2.0	.0	2.1	.0	.7	.0	.1	.0	.0	.2	9.6	12.8
ENE	.0	.2	.1	5.0	.0	1.9	.0	1.0	.0	.6	.0	.4	.0	.0	.2	9.1	11.7
E	.0	.5	.1	5.4	.0	1.5	.0	.6	.0	.4	.0	.1	.0	.0	.2	8.5	10.1
ESE	.0	.1	.0	2.2	.0	.4	.0	1.0	.0	.5	.0	.0	.0	.0	.1	4.2	12.1
SE	.0	.0	.0	2.2	.0	.6	.0	.7	.0	.6	.0	.0	.0	.0	.1	4.2	12.5
SSE	.0	.2	.1	3.1	.0	1.4	.0	.4	.0	.7	.0	.2	.0	.0	.1	6.1	12.5
S	.0	.0	.1	3.5	.0	1.5	.0	.2	.0	.0	.0	.2	.0	.0	.1	5.5	11.3
SSW	.0	.1	.0	1.9	.0	.5	.0	.2	.0	.0	.0	.1	.0	.0	.1	2.9	10.1
SW	.0	.2	.0	2.2	.0	.7	.0	.1	.0	.2	.0	.0	.0	.2	.1	3.9	11.2
WSW	.0	.2	.1	2.5	.0	.7	.0	.2	.0	.9	.0	.2	.0	.1	.1	5.0	13.1
W	.0	.4	.1	3.9	.0	.4	.0	.7	.0	1.0	.0	.1	.0	.2	.1	6.7	12.2
WNW	.0	.1	.1	2.5	.0	.7	.0	.7	.0	.6	.0	.4	.0	.0	.1	5.1	13.3
NW	.0	.2	.0	2.2	.0	1.0	.0	.4	.0	.4	.0	.4	.0	.1	.1	4.7	13.1
NNW	.0	.0	.0	2.4	.0	.2	.0	.7	.0	.4	.0	.5	.0	.0	.1	4.2	12.8
CALM	.1	5.2													.1	5.2	
TOTAL	.2	8.4	1.1	52.7	.3	15.2	.2	11.1	.2	8.2	.1	3.5	.0	.7	2.0	100	11.3

LAN LANSING, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 4 / NIGHT

STATION NUMBER: 14836

NO. OBS.: 887

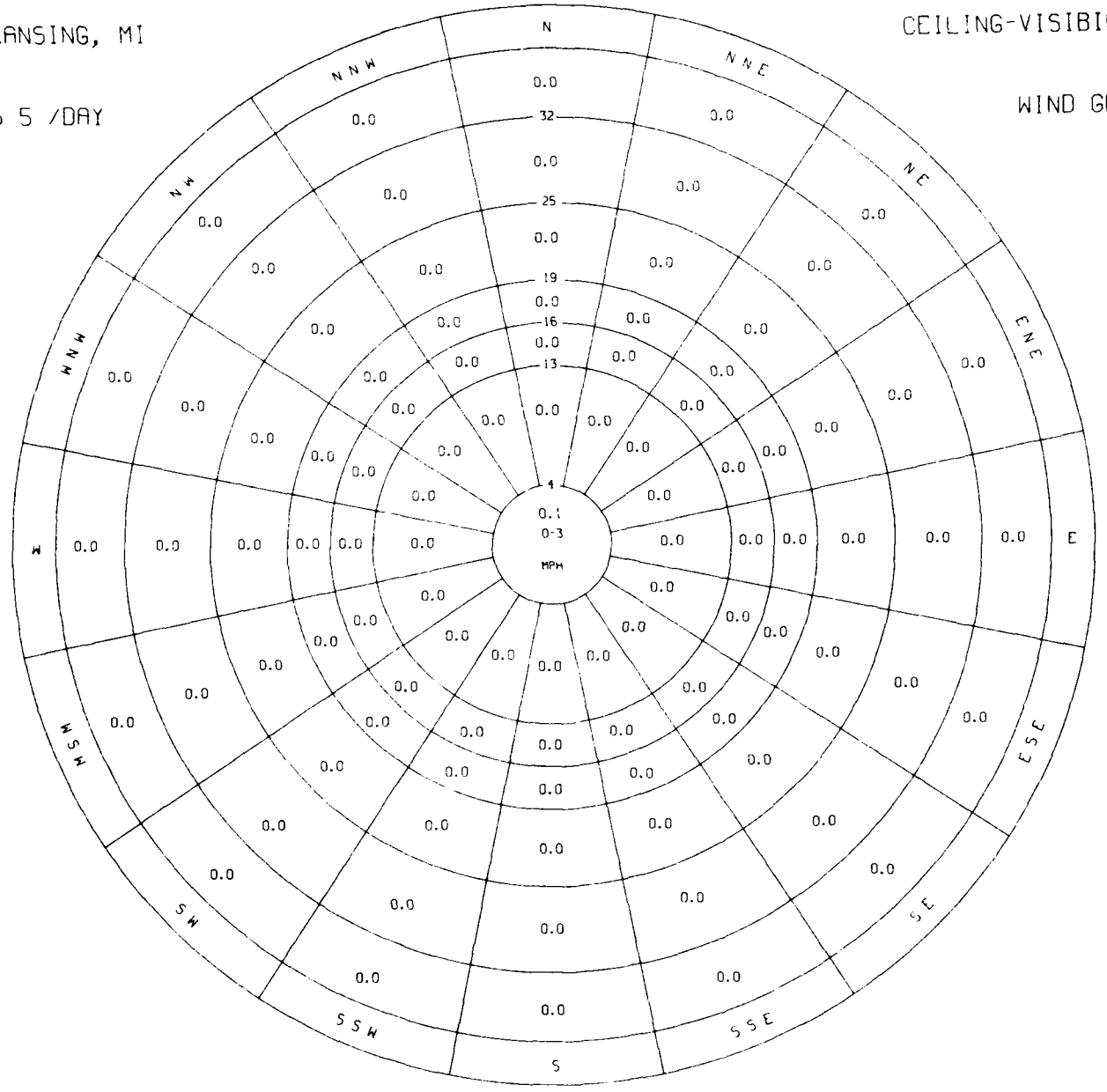
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.7	.1	3.5	.0	1.5	.0	.6	.0	.5	.0	.0	.0	.0	.2	6.7	10.3
NNE	.0	.1	.1	4.4	.0	1.6	.0	.6	.0	.6	.0	.5	.0	.0	.2	7.7	12.0
NE	.0	.1	.1	3.6	.1	2.1	.1	1.9	.0	1.0	.0	.5	.0	.0	.2	9.2	13.8
ENE	.0	.2	.2	6.4	.0	1.1	.0	.8	.0	.5	.0	.0	.0	.1	.2	9.1	10.4
E	.0	.1	.2	6.4	.0	1.1	.0	.3	.0	.6	.0	.0	.0	.0	.2	8.6	9.6
ESE	.0	.2	.1	2.4	.0	.6	.0	.8	.0	.3	.0	.0	.0	.0	.1	4.3	11.2
SE	.0	.5	.1	4.2	.0	1.0	.0	.9	.0	.8	.0	.0	.0	.0	.2	7.3	11.2
SSE	.0	.3	.1	2.6	.0	1.4	.0	.8	.0	.2	.0	.0	.0	.1	.1	5.4	12.1
S	.0	.2	.1	3.8	.0	.7	.0	1.0	.0	.2	.0	.0	.0	.0	.2	6.0	10.3
SSW	.0	.1	.1	2.7	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.1	3.5	10.0
SW	.0	.3	.1	2.4	.0	.6	.0	.2	.0	.1	.0	.0	.0	.0	.1	3.6	9.5
WSW	.0	.1	.1	2.0	.0	.7	.0	.6	.0	.1	.0	.0	.0	.0	.1	3.5	10.5
W	.0	.2	.1	3.9	.0	.9	.0	.2	.0	.3	.0	.1	.0	.1	.2	5.9	10.7
WNW	.0	.0	.1	2.6	.0	.3	.0	.1	.0	.2	.0	.3	.0	.0	.1	3.6	11.0
NW	.0	.5	.1	3.9	.0	.2	.0	.5	.0	.1	.0	.1	.0	.0	.1	5.4	9.4
NNW	.0	.1	.1	2.4	.0	.9	.0	.6	.0	.1	.0	.0	.0	.1	.1	4.2	11.5
CALM	.2	6.1													.2	6.1	
TOTAL	.3	9.9	1.5	57.3	.4	15.0	.3	10.0	.2	5.9	.0	1.5	.0	.5	2.7	100	10.3

LAN LANSING, MI

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 5 / DAY

STATION NUMBER: 14836

NO. OBS.: 214

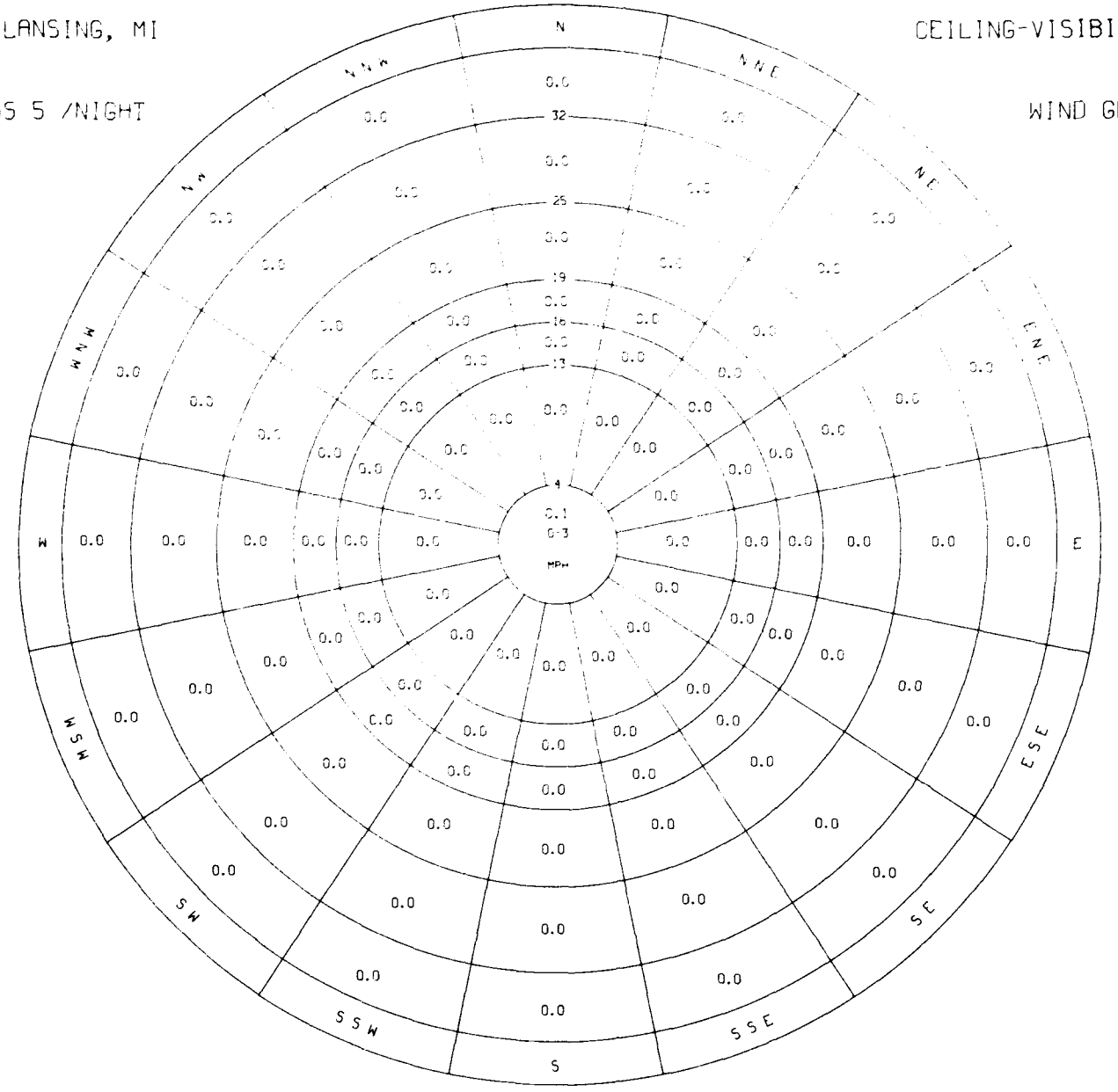
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.4	.0	5.6	.0	.9	.0	.5	.0	.9	.0	.0	.0	.5	.1	9.8	11.3
NNE	.0	.0	.0	4.2	.0	2.8	.0	.5	.0	2.3	.0	.0	.0	.0	.1	9.8	13.5
NE	.0	2.3	.0	7.0	.0	2.8	.0	.5	.0	.0	.0	.0	.0	.0	.1	12.6	8.5
ENE	.0	.5	.0	4.7	.0	1.4	.0	.0	.0	.9	.0	.0	.0	.0	.0	7.5	9.8
E	.0	1.4	.0	5.6	.0	.5	.0	.5	.0	.5	.0	.5	.0	.0	.0	8.9	9.2
ESE	.0	.0	.0	1.4	.0	.0	.0	.9	.0	.5	.0	.0	.0	.0	.0	2.8	12.8
SE	.0	.0	.0	3.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	9.1
SSE	.0	.5	.0	2.3	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	3.7	9.3
S	.0	.0	.0	2.8	.0	1.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.2	10.4
SSW	.0	.0	.0	2.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	9.5
SW	.0	.5	.0	.9	.0	.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	1.9	9.0
WSW	.0	.9	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	6.4
W	.0	.5	.0	3.7	.0	.5	.0	.0	.0	.5	.0	.5	.0	.0	.0	5.6	10.1
WNW	.0	.9	.0	2.8	.0	.0	.0	.0	.0	.5	.0	.9	.0	.5	.0	5.6	12.2
NW	.0	.5	.0	2.8	.0	.0	.0	.5	.0	.0	.0	.0	.0	.5	.0	4.2	10.3
NNW	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.5	.0	.0	.0	.0	.0	4.2	9.7
CALM	.0	8.9													.0	8.9	
TOTAL	.1	18.2	.3	55.6	.1	11.7	.0	4.7	.0	6.5	.0	1.9	.0	1.4	.5	100	9.3

LAN LANSING, MI

CEILING-VISIBILITY

CLASS 5 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: [illegible] LANSING, MI

PERIOD: 1949-1978

CLASS 5 / NIGHT

STATION NUMBER: 14836

NO. OBS.: 231

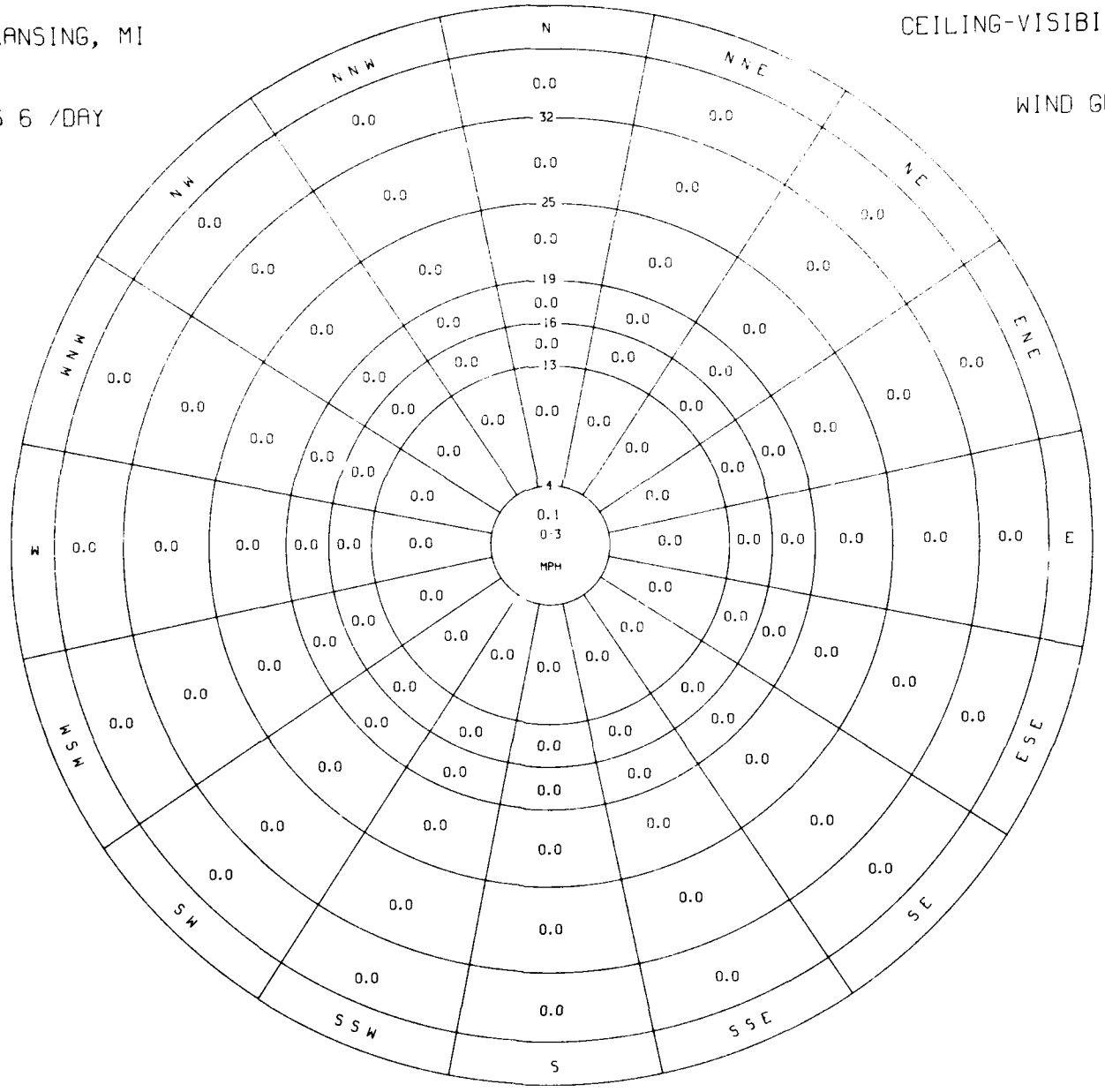
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.6	.0	.4	.0	1.7	.0	.0	.0	.0	.0	.0	.0	4.8	11.8
NNE	.0	.4	.0	4.3	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.6	8.9
NE	.0	.3	.0	6.5	.0	2.2	.0	.0	.0	1.3	.0	.0	.0	.0	.1	10.8	10.5
ENE	.0	.4	.0	4.3	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.1	8.4
E	.0	.7	.0	6.1	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.2	7.9
ESE	.0	.9	.0	5.2	.0	.9	.0	.4	.0	.4	.0	.0	.0	.0	.1	7.8	8.9
SE	.0	.0	.0	2.6	.0	.9	.0	.4	.0	.4	.0	.0	.0	.0	.0	4.3	11.4
SSE	.0	.9	.0	3.5	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	5.2	9.2
S	.0	.0	.0	3.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	9.2
SSW	.0	.0	.0	3.0	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.9	10.3
SW	.0	.4	.0	4.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.8	7.0
WSW	.0	.4	.0	1.7	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	3.0	10.7
W	.0	.9	.0	6.1	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.1	8.7	8.6
WNW	.0	.4	.0	2.2	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.0	8.0
NW	.0	2.2	.0	2.6	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	5.2	6.0
NNW	.0	.4	.0	2.2	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.0	3.9	11.2
CALM	.1	10.8													.1	10.8	
TOTAL	.1	20.8	.4	60.6	.1	9.5	.0	5.2	.0	3.9	.0	.0	.0	.0	.7	100	8.2

LAN LANSING, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 6 / DAY

STATION NUMBER: 14836

NO. OBS.: 159

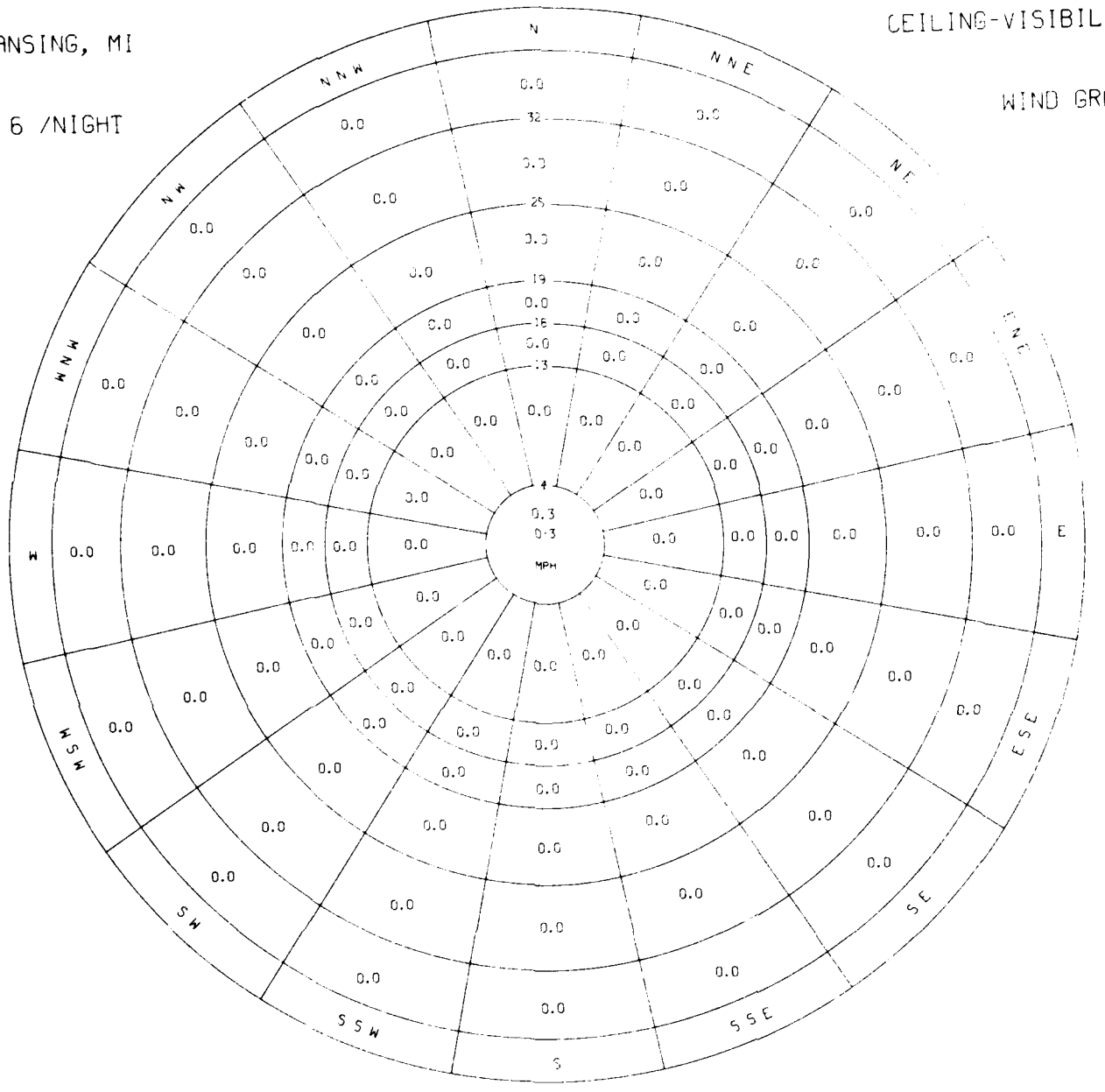
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.9	.0	2.5	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.0	7.2
NNE	.0	.0	.0	3.8	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.4	10.1
NE	.0	2.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.5
ENE	.0	.0	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.0
E	.0	1.9	.0	5.7	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	8.2	6.2
ESE	.0	.0	.0	1.9	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	9.2
SE	.0	.6	.0	2.5	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	5.0	10.0
SSE	.0	1.3	.0	1.9	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	4.4	9.7
S	.0	.0	.0	6.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.9	7.6
SSW	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.5
SW	.0	.0	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	6.2
WSW	.0	1.3	.0	6.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.2	7.0
W	.0	2.5	.0	5.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.8	6.6
WNW	.0	.0	.0	2.5	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	3.8	10.3
NW	.0	.0	.0	1.3	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.9	9.3
NNW	.0	.0	.0	2.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.2
CALM	.1	18.9													.1	18.9	
TOTAL	.1	30.8	.2	59.7	.0	4.4	.0	3.8	.0	1.3	.0	.0	.0	.0	.4	100	6.1

LAN LANSING, MI

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: LAN LANSING, MI

PERIOD: 1949-1978

CLASS 6 / NIGHT

STATION NUMBER: 14836

NO. OBS.: 232

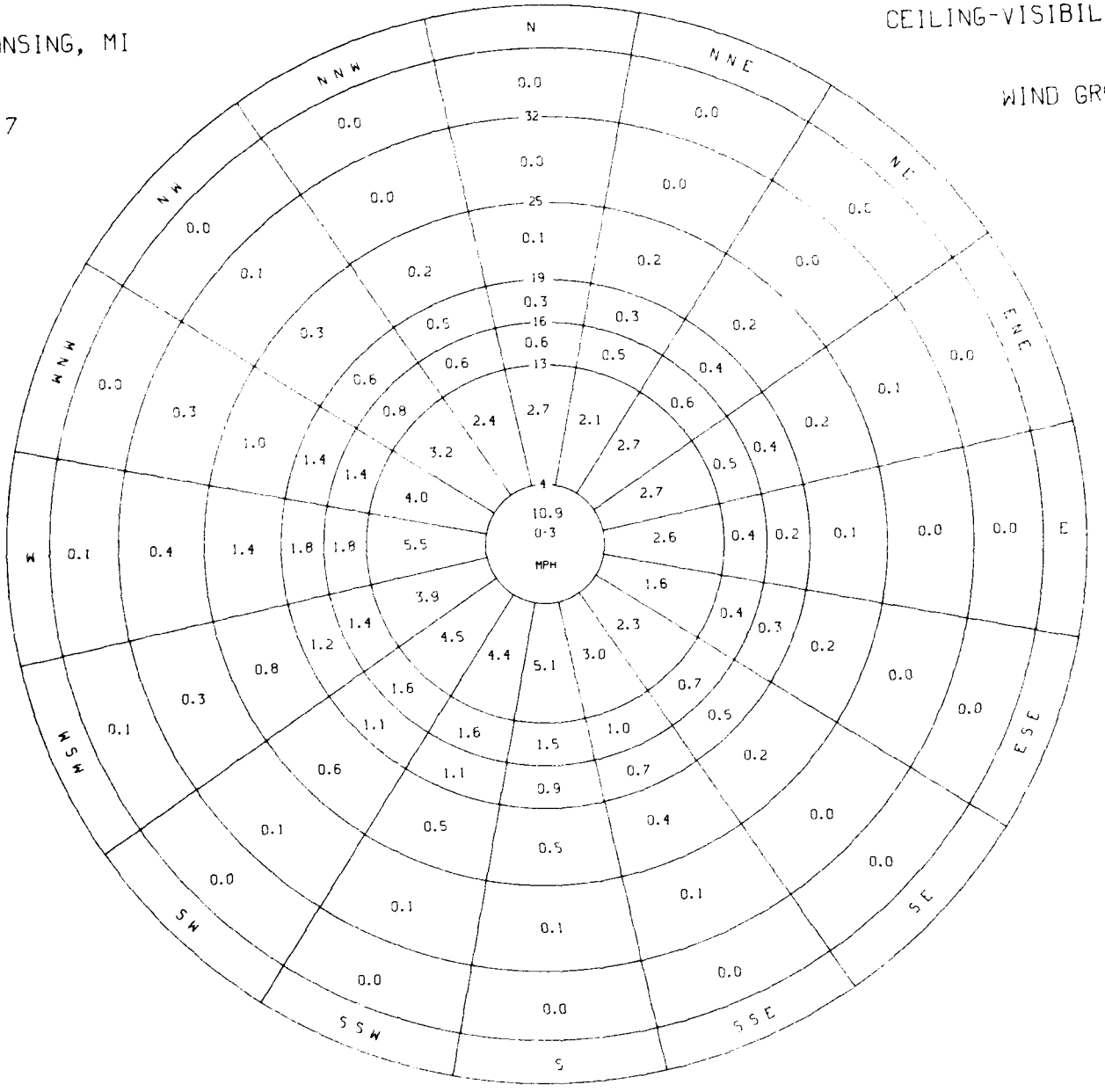
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	3.0	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	4.3	9.0
NNE	.0	.4	.0	1.7	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	2.6	8.5
NE	.0	2.2	.0	6.5	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.1	9.1	6.4
ENE	.0	1.3	.0	5.6	.0	.4	.0	.0	.0	.0	.0	.4	.0	.0	.1	7.8	7.4
E	.0	.9	.0	6.5	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.1	8.2	7.6
ESE	.0	.0	.0	.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	9.3
SE	.0	.4	.0	3.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	3.9	8.2
SSE	.0	.4	.0	1.7	.0	.0	.0	1.3	.0	.4	.0	.0	.0	.0	.0	3.9	12.1
S	.0	2.2	.0	3.9	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.6
SSW	.0	.0	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	8.3
SW	.0	.4	.0	1.7	.0	.4	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.0	9.0
WSW	.0	.4	.0	4.3	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	8.4
W	.0	1.3	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.2	5.5
WNW	.0	.0	.0	3.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	6.3
NW	.0	.4	.0	2.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	6.1
NNW	.0	.4	.0	1.3	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	6.8
CALM	.2	27.6													.2	27.6	
TOTAL	.3	38.4	.4	52.6	.0	3.9	.0	3.4	.0	1.3	.0	.4	.0	.0	.7	100	5.5

LAN LANSING, MI

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

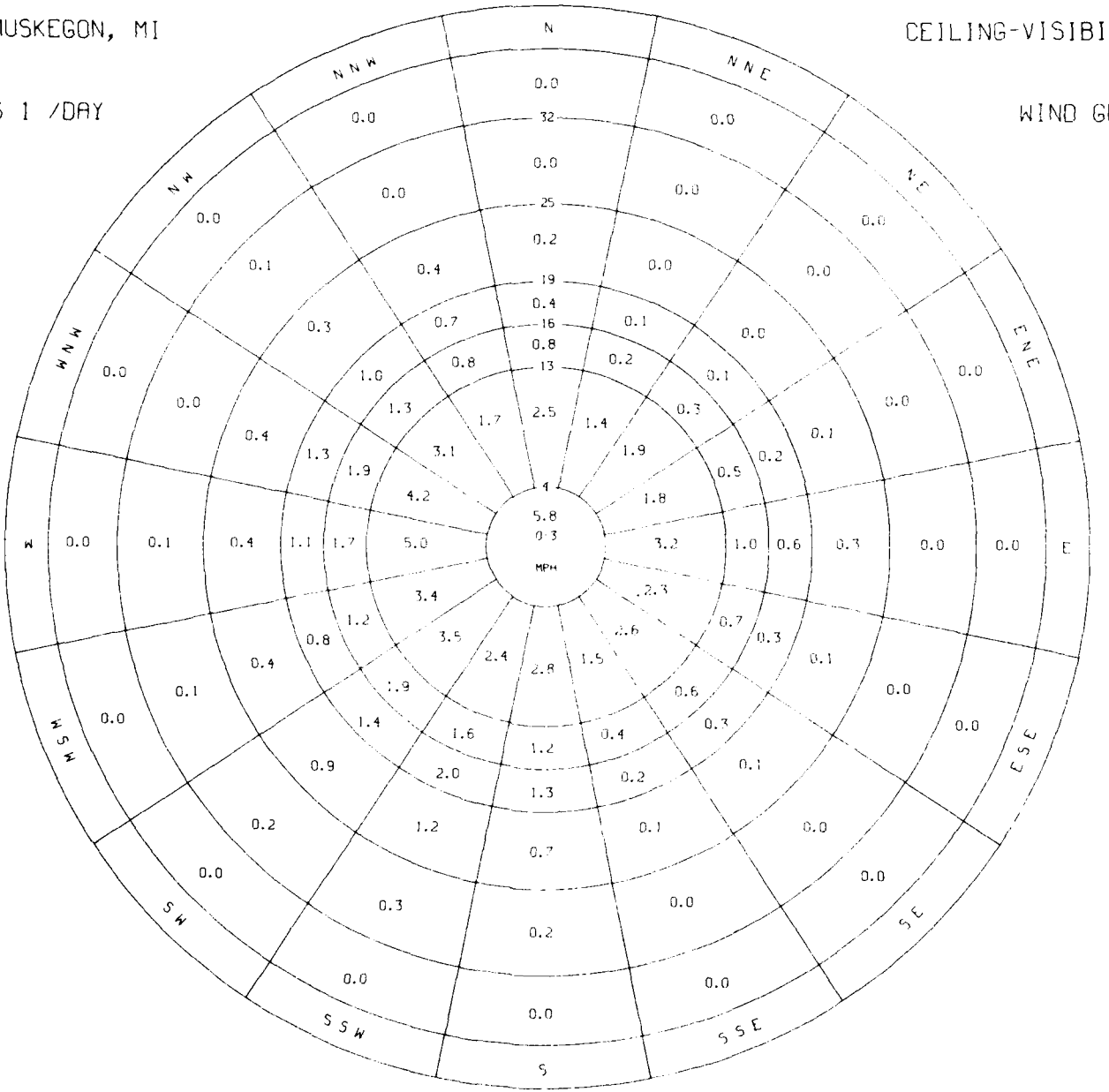


MKG MUSKEGON, MI

CEILING-VISIBILITY

CLASS 1 /DAY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 14840

NO. OBS.: 31322

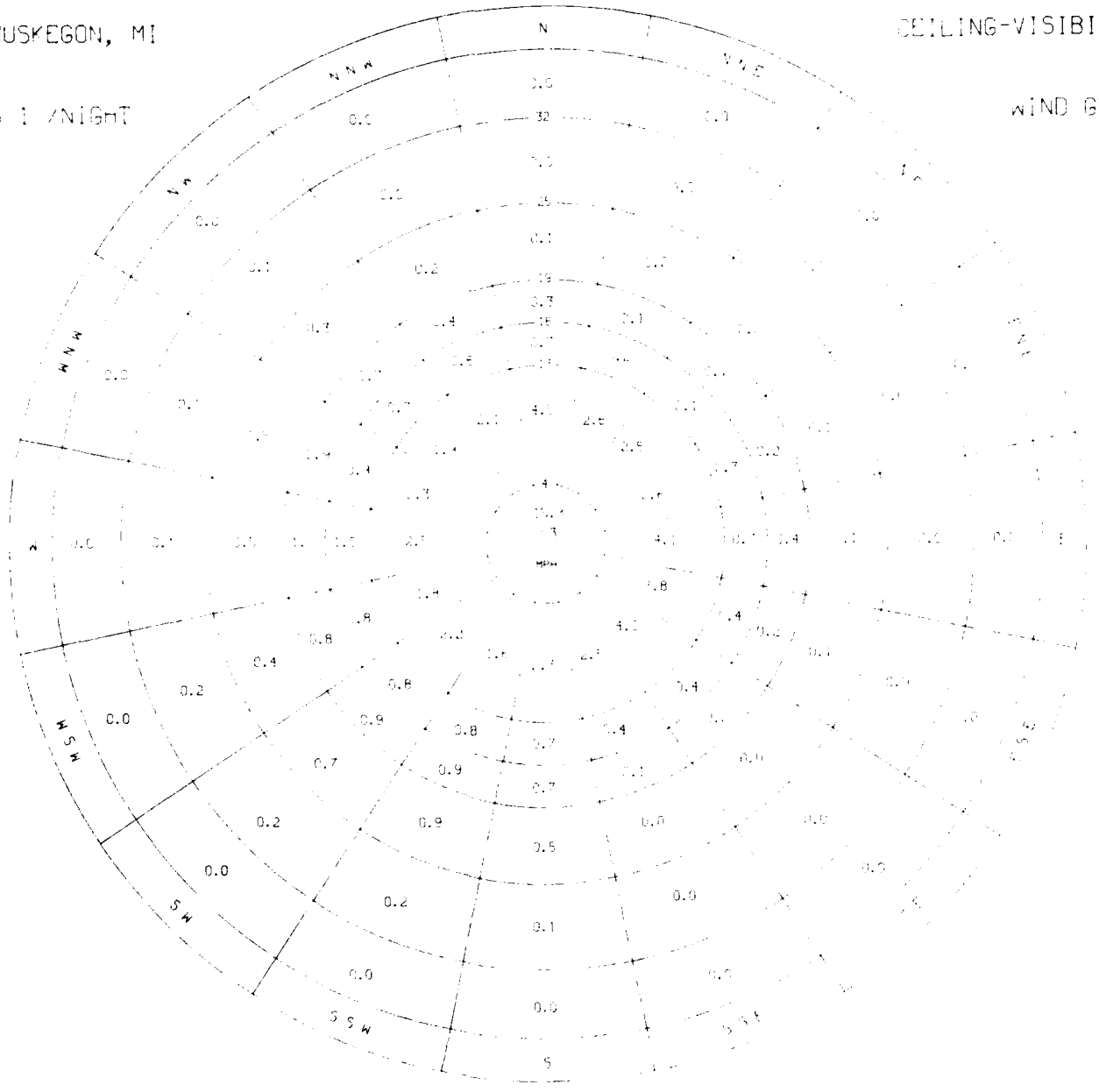
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	2.5	3.0	.8	.9	.4	.5	.2	.2	.0	.0	.0	.0	4.1	4.9	10.6
NNE	.1	.1	1.4	1.7	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.9	2.3	9.0
NE	.3	.4	1.9	2.2	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	2.6	3.1	8.4
ENE	.2	.2	1.8	2.2	.5	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.8	3.4	10.3
E	.5	.6	3.2	3.8	1.0	1.2	.6	.7	.3	.3	.0	.0	.0	.0	5.6	6.7	10.5
ESE	.3	.3	2.3	2.7	.7	.8	.3	.4	.1	.2	.0	.0	.0	.0	3.7	4.4	10.2
SE	.4	.5	2.6	3.1	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	4.0	4.8	9.4
SSE	.2	.2	1.5	1.8	.4	.5	.2	.3	.1	.1	.0	.0	.0	.0	2.4	2.9	10.1
S	.3	.3	2.8	3.4	1.2	1.4	1.3	1.5	.7	.9	.2	.2	.0	.0	6.5	7.7	13.0
SSW	.1	.2	2.4	2.9	1.6	1.9	2.0	2.3	1.2	1.4	.3	.3	.0	.0	7.6	9.0	14.6
SW	.2	.2	3.5	4.2	1.9	2.2	1.4	1.7	.9	1.1	.2	.2	.0	.0	8.1	9.7	13.3
WSW	.2	.2	3.4	4.0	1.2	1.5	.8	1.0	.4	.5	.1	.1	.0	.0	6.2	7.3	12.2
W	.3	.4	5.0	6.0	1.7	2.0	1.1	1.3	.4	.5	.1	.1	.0	.0	8.7	10.3	11.5
WNW	.2	.2	4.2	4.9	1.9	2.3	1.3	1.5	.4	.5	.0	.0	.0	.0	8.0	9.5	12.0
NW	.3	.3	3.1	3.7	1.3	1.5	1.0	1.1	.3	.4	.1	.1	.0	.0	6.0	7.1	11.8
NNW	.2	.2	1.7	2.1	.8	1.0	.7	.8	.4	.5	.0	.1	.0	.0	3.9	4.6	12.6
CALM	1.9	2.3													1.9	2.3	
TOTAL	5.8	6.9	43.4	51.7	16.1	19.2	11.8	14.0	5.6	6.7	1.1	1.3	.1	.1	83.9	100	11.5

MKG MUSKEGON, MI

CEILING-VISIBILITY

CLASS 1 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: [illegible]

PERIOD: 1948-1978

CLASS: [illegible]

STATION NUMBER: 14-4

WBAN SEC.: [illegible]

SPEED GROUPS (MPH)

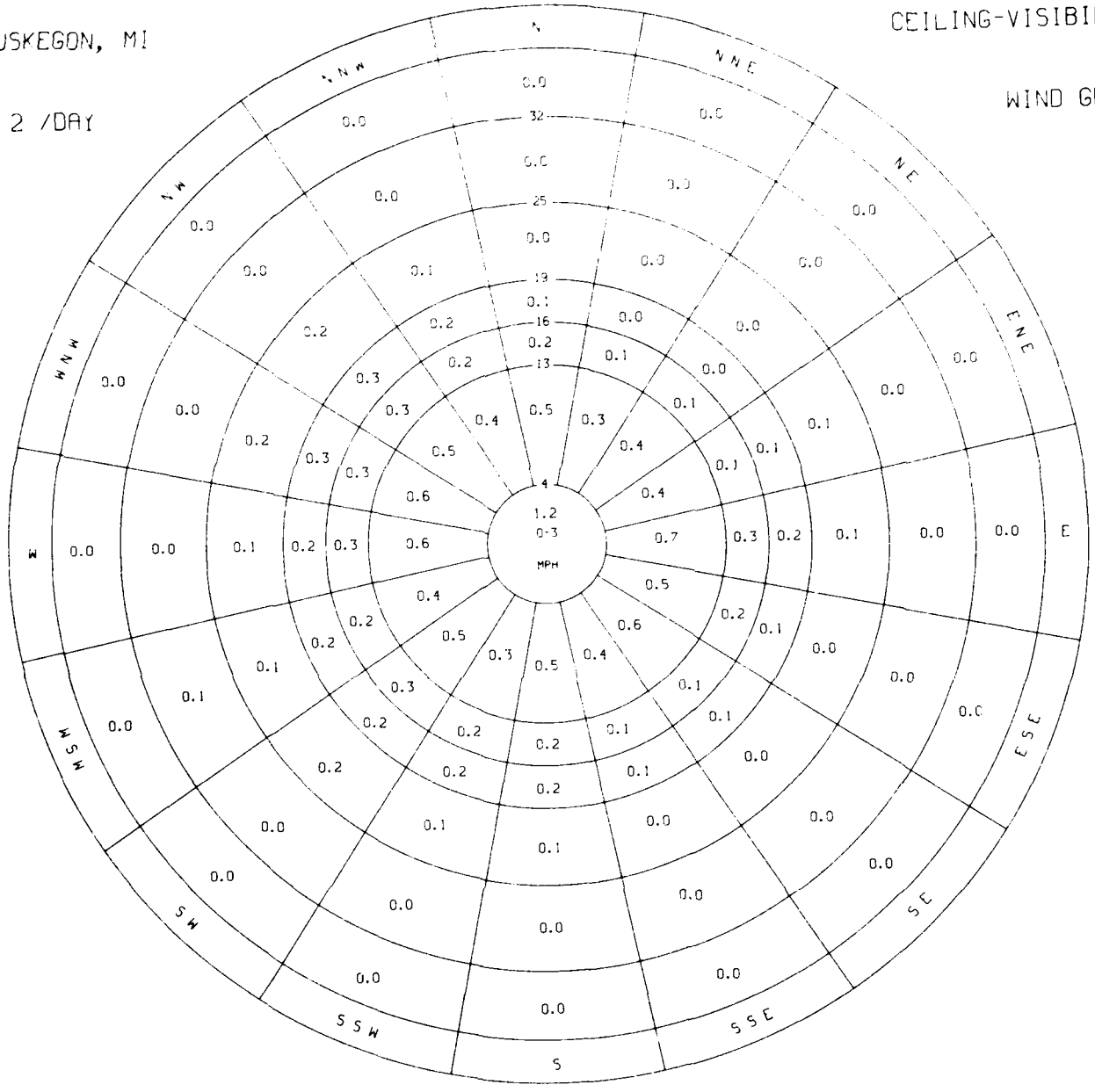
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		AVG SPEED
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C		
N	.1	.3	3.5	5.5	.7	.9	.3	.4	.1	.1	.1	.1	.1	.0	12.1	7.1	8.5
NNE	.2	.5	1.6	2.1	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	5.4	4.1	8.3
NE	.1	.2	2.5	3.1	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	6.5	4.5	8.4
ENE	.3	.5	2.6	3.2	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	7.8	4.8	8.3
E	.2	.3	4.1	5.6	.7	.9	.4	.5	.2	.2	.1	.1	.0	.0	12.5	8.0	8.3
ESE	.2	.3	3.5	4.5	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	10.6	6.4	8.1
SE	.1	.2	4.0	4.9	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	10.7	6.9	8.3
SSE	.2	.4	2.5	3.0	.4	.5	.2	.2	.1	.1	.0	.0	.0	.0	8.4	4.2	8.6
S	.5	.3	2.3	2.8	.7	.9	.7	.3	.5	.5	.1	.1	.0	.0	9.9	5.2	8.1
SSW	.4	.4	1.6	2.2	.2	.2	.9	1.1	.9	.1	.2	.2	.0	.0	8.3	5.7	9.4
SW	.4	.5	2.2	2.7	.3	.6	.3	1.1	.1	.2	.2	.2	.0	.0	9.3	6.4	9.2
WSW	.2	.4	1.8	2.1	.3	.3	.3	.9	.4	.5	.2	.2	.0	.0	7.2	5.6	9.3
W	.4	.5	2.5	3.1	.6	.6	.6	1.2	.5	.6	.1	.2	.0	.0	10.5	6.7	9.3
WNW	.3	.3	4.3	2.3	.9	.1	.9	.1	.2	.6	.1	.1	.0	.0	11.1	6.1	14.6
NW	.4	.5	1.9	2.4	.7	.8	.7	.8	.2	.3	.1	.1	.0	.0	7.8	4.9	11.2
NNW	.3	.4	2.1	2.6	.6	.8	.4	.5	.2	.2	.1	.1	.0	.0	8.1	4.5	10.1
VRB	.5	.9													6.5	.9	
TOTAL	5.5	10.2	43.4	52.3	7.6	11.1	7.7	9.4	4.4	5.3	1.6	1.2	.2	.0	82.6	100.1	9.1

MKG MUSKEGON, MI

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MFG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14840

NO. OBS.: 5989

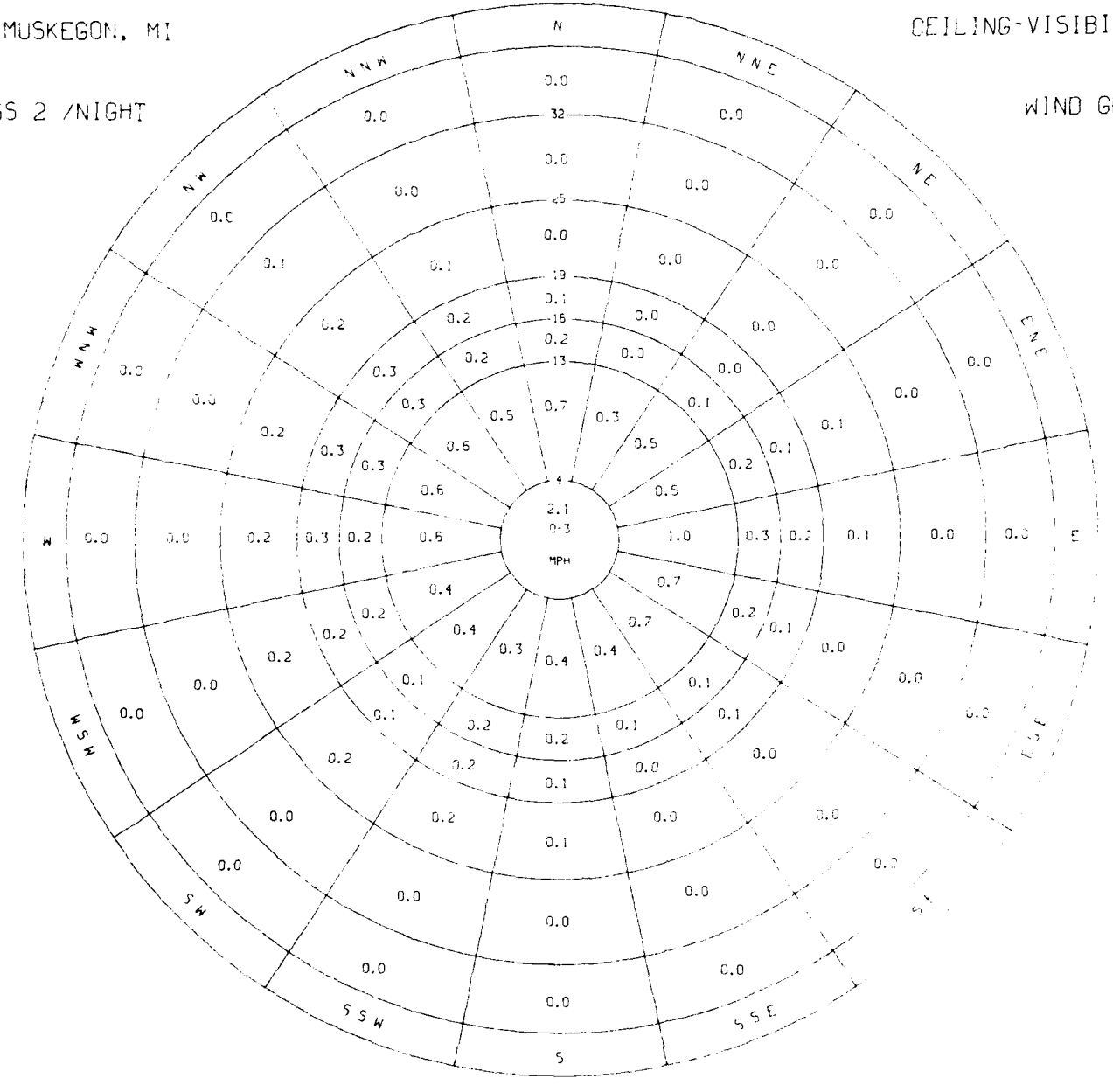
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.5	2.9	.2	1.1	.1	.7	.0	.2	.0	.1	.0	.0	.9	5.3	11.3
NNE	.0	.2	.3	1.7	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.4	2.4	9.3
NE	.1	.4	.4	2.3	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.6	3.7	10.0
ENE	.0	.2	.4	2.7	.1	.3	.1	.7	.1	.3	.0	.1	.0	.0	.8	4.8	11.8
E	.1	.4	.7	4.4	.3	1.8	.2	1.2	.1	.9	.0	.2	.0	.0	1.4	8.9	12.2
ESE	.1	.3	.5	3.3	.2	1.1	.1	.9	.0	.3	.0	.1	.0	.0	1.0	6.0	11.0
SE	.1	.5	.6	3.8	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.9	5.4	9.1
SSE	.0	.3	.4	2.3	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.6	3.7	10.2
S	.1	.5	.5	3.3	.2	1.2	.2	1.3	.1	.6	.0	.1	.0	.0	1.1	7.0	12.0
SSW	.0	.1	.3	2.1	.2	1.2	.2	1.2	.1	.7	.0	.1	.0	.1	.9	5.5	13.7
SW	.0	.3	.5	2.9	.3	1.7	.2	1.1	.2	.9	.0	.2	.0	.1	1.2	7.2	13.7
WSW	.0	.1	.4	2.5	.2	1.2	.2	1.2	.1	.7	.1	.3	.0	.1	1.0	6.0	14.1
W	.0	.3	.6	3.9	.3	1.6	.2	1.5	.1	.8	.0	.2	.0	.0	1.3	8.2	12.6
WNW	.0	.3	.6	3.5	.3	1.9	.3	1.9	.2	1.3	.0	.1	.0	.0	1.4	8.9	13.5
NW	.0	.3	.5	3.0	.3	1.8	.3	1.7	.2	1.2	.0	.1	.0	.1	1.3	8.1	13.6
NNW	.0	.2	.4	2.3	.2	1.1	.2	1.3	.1	.6	.0	.3	.0	.1	.9	5.9	13.9
CALM	.5	3.0													.5	3.0	
TOTAL	1.2	7.6	7.5	46.8	3.0	18.8	2.5	15.7	1.4	8.9	.3	1.9	.1	.4	16.1	100	12.0

MKG MUSKEGON, MI

CEILING-VISIBILITY

CLASS 2 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 2 / NIGHT

STATION NUMBER: 14840

NO. OBS.: 5898

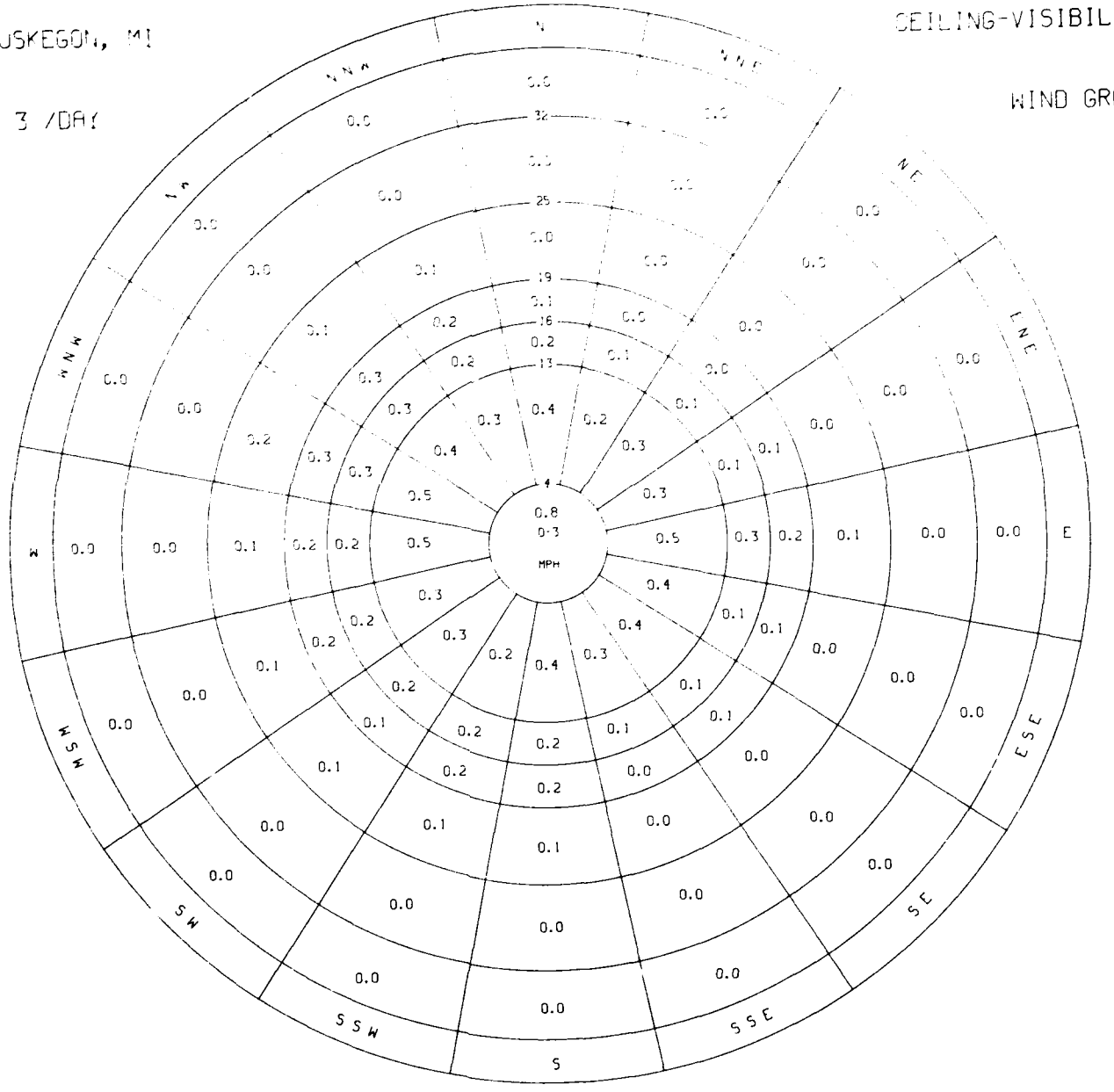
DIR	SPEED GROUPS (MPH)														TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.7	3.8	.2	1.1	.1	.6	.0	.2	.0	.1	.0	.0	1.1	6.3	10.4
NNE	.0	.2	.3	1.8	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.5	2.7	9.2
NE	.1	.3	.5	2.7	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.8	4.5	8.7
ENE	.1	.4	.5	2.8	.2	1.0	.1	.6	.1	.3	.0	.0	.0	.0	.9	5.1	10.8
E	.3	.9	1.0	5.7	.3	1.8	.2	1.3	.1	.5	.0	.1	.0	.0	1.9	10.3	10.7
ESE	.1	.5	.7	4.1	.2	.9	.1	.6	.0	.2	.0	.0	.0	.0	1.1	6.4	9.9
SE	.1	.6	.7	3.9	.1	.8	.1	.4	.0	.0	.0	.0	.0	.0	1.0	5.7	8.9
SSE	.0	.3	.4	2.3	.1	.6	.0	.3	.0	.0	.0	.0	.0	.0	.6	3.4	9.7
S	.1	.4	.4	2.4	.2	.9	.1	.8	.1	.4	.0	.1	.0	.0	.9	5.1	11.5
SSW	.0	.2	.3	1.7	.2	.9	.2	.9	.2	1.1	.0	.1	.0	.1	.9	4.9	14.5
SW	.1	.4	.4	2.1	.1	.8	.1	.7	.2	.9	.0	.2	.0	.0	.9	5.2	13.3
WSW	.0	.2	.4	2.1	.2	.9	.2	.9	.2	.9	.0	.2	.0	.1	.9	5.2	14.1
W	.1	.4	.6	3.1	.2	1.3	.3	1.7	.2	1.2	.0	.3	.0	.0	1.4	7.9	13.8
WNW	.0	.2	.6	3.6	.3	1.5	.3	1.8	.2	1.3	.0	.3	.0	.1	1.6	8.7	13.9
NW	.1	.5	.6	3.1	.3	1.4	.3	1.5	.2	1.0	.1	.4	.0	.1	1.4	8.0	13.4
NNW	.1	.3	.5	2.9	.2	1.2	.2	1.0	.1	.6	.0	.2	.0	.0	1.1	6.2	12.6
CALM	.2	4.5													.8	4.5	
TOTAL	.9	11.4	7.6	48.0	2.8	15.9	2.4	13.6	1.6	8.8	.4	2.0	.1	.4	18.0	100	11.3

MKG MUSKEGON, MI

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 14840

NO. OBS.: 4959

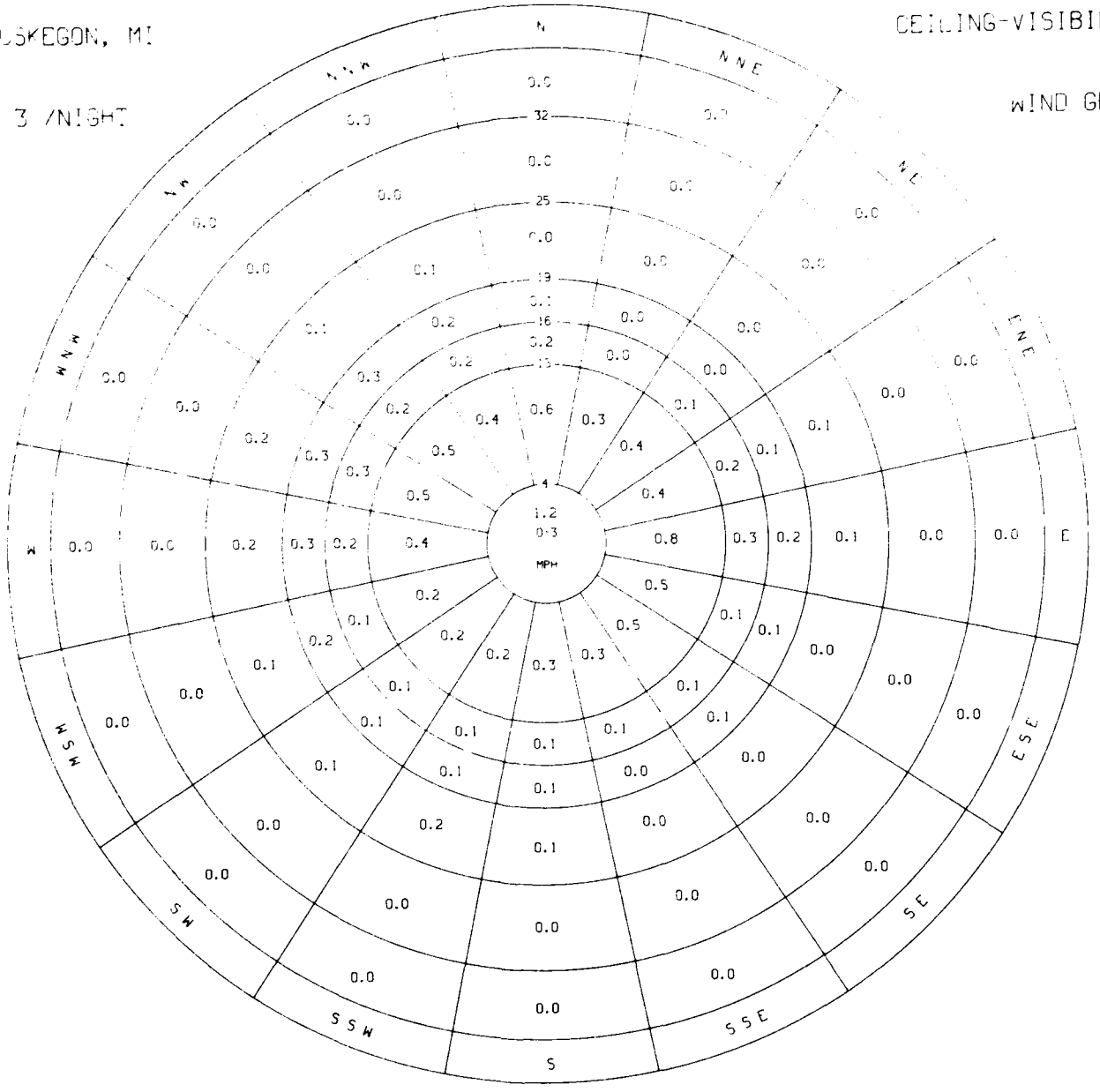
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.4	3.1	.2	1.3	.1	.6	.0	.2	.0	.1	.0	.0	.8	5.7	11.3
NNE	.0	.2	.2	1.8	.1	.4	.0	.1	.0	.0	.0	.0	.0	.0	.3	2.5	9.5
NE	.0	.3	.3	2.4	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.8	10.3
ENE	.0	.1	.3	2.5	.1	1.0	.1	.8	.0	.4	.0	.1	.0	.0	.7	4.9	12.3
E	.0	.3	.5	4.1	.3	2.0	.2	1.4	.1	.9	.0	.2	.0	.0	1.2	9.0	12.7
ESE	.0	.2	.4	3.1	.1	1.1	.1	.9	.0	.3	.0	.0	.0	.0	.8	5.7	11.2
SE	.1	.4	.4	3.2	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.8	9.7
SSE	.0	.2	.3	2.1	.1	.6	.0	.3	.0	.1	.0	.0	.0	.0	.4	3.3	10.4
S	.1	.5	.4	3.1	.2	1.3	.2	1.4	.1	.7	.0	.1	.0	.0	.9	7.1	12.4
SSW	.0	.2	.2	1.8	.2	1.2	.2	1.4	.1	.6	.0	.1	.0	.0	.7	5.3	14.1
SW	.0	.2	.3	2.5	.2	1.6	.1	1.0	.1	1.0	.0	.2	.0	.1	.9	6.7	14.3
WSW	.0	.1	.3	2.5	.2	1.3	.2	1.3	.1	.7	.0	.3	.0	.1	.8	6.2	14.3
W	.0	.2	.5	3.9	.2	1.7	.2	1.6	.1	.7	.0	.2	.0	.0	1.1	8.3	12.7
WNW	.0	.2	.5	3.4	.3	2.3	.3	2.1	.2	1.2	.0	.1	.0	.0	1.2	9.3	13.6
NW	.0	.3	.4	3.2	.3	2.0	.3	1.9	.1	1.1	.0	.1	.0	.0	1.1	8.6	13.4
NNW	.0	.1	.3	2.5	.2	1.3	.2	1.5	.1	.7	.0	.2	.0	.0	.8	6.4	13.8
CALM	.3	2.4													.3	2.4	
TOTAL	.8	6.3	6.0	45.4	2.7	20.4	2.3	17.0	1.2	8.8	.2	1.9	.0	.3	13.3	100	12.3

MKG MUSKEGON, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14840

NO. OBS.: 4668

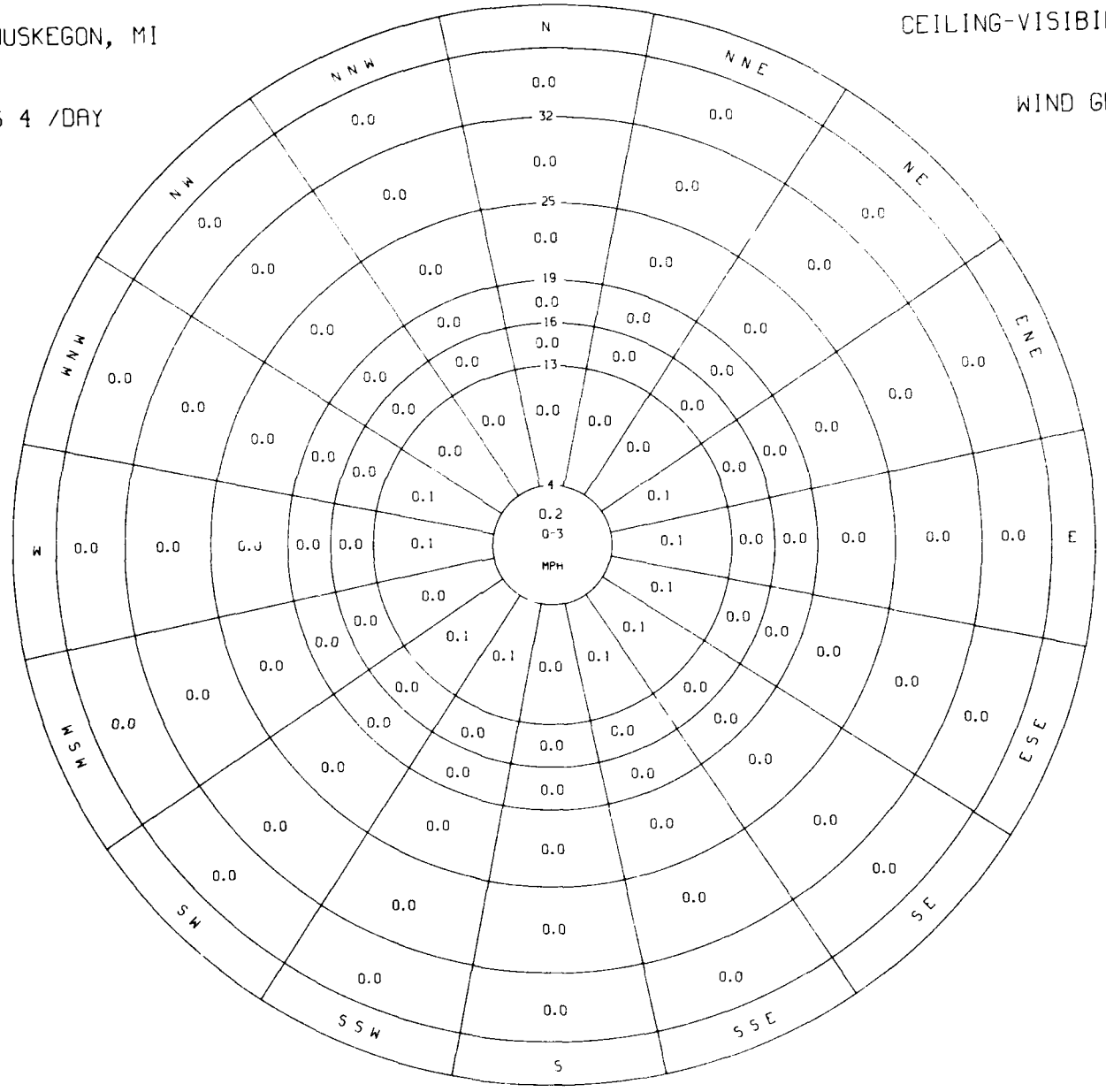
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.6	4.1	.2	1.2	.1	.7	.0	.2	.0	.1	.0	.0	1.0	6.9	10.6
NNE	.0	.2	.3	1.9	.0	.3	.0	.3	.0	.1	.0	.0	.0	.0	.4	2.8	9.7
NE	.1	.6	.4	3.0	.1	.7	.0	.3	.0	.1	.0	.0	.0	.0	.7	4.6	9.2
ENE	.0	.3	.4	2.8	.2	1.1	.1	.7	.1	.4	.0	.0	.0	.0	.8	5.3	11.5
E	.1	.7	.8	5.6	.3	2.1	.2	1.5	.1	.6	.0	.1	.0	.0	1.5	10.7	11.3
ESE	.1	.5	.5	3.6	.1	1.0	.1	.7	.0	.2	.0	.0	.0	.0	.9	6.0	10.3
SE	.1	.4	.5	3.5	.1	.9	.1	.4	.0	.0	.0	.0	.0	.0	.7	5.2	9.5
SSE	.0	.2	.3	2.3	.1	.6	.0	.2	.0	.0	.0	.0	.0	.0	.5	3.3	9.8
S	.1	.4	.3	2.4	.1	.8	.1	.9	.1	.4	.0	.1	.0	.0	.7	4.9	11.8
SSW	.0	.1	.2	1.4	.1	.8	.1	1.0	.2	1.1	.0	.1	.0	.0	.6	4.4	15.1
SW	.0	.2	.2	1.6	.1	.8	.1	.8	.1	.9	.0	.3	.0	.0	.7	4.7	14.6
WSW	.0	.2	.2	1.7		.9	.2	1.1	.1	.9	.0	.2	.0	.1	.7	5.1	15.1
W	.0	.3	.4	3.1	.2	1.3	.3	2.0	.2	1.3	.0	.3	.0	.0	1.2	8.2	14.1
WNW	.0	.2	.5	3.6	.3	1.9	.3	2.1	.2	1.3	.0	.2	.0	.0	1.3	9.2	14.0
NW	.1	.5	.5	3.4	.2	1.7	.3	1.9	.1	1.0	.0	.3	.0	.0	1.2	8.8	13.3
NNW	.0	.3	.4	3.1	.2	1.3	.2	1.2	.1	.7	.0	.2	.0	.0	1.0	6.8	12.7
CALM	.4	3.0													.4	3.0	
TOTAL	1.2	8.5	6.7	47.0	2.5	17.4	2.2	15.5	1.3	9.3	.3	1.9	.0	.3	14.2	100	11.9

MKG MUSKEGON, MI

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14840

NO. OBS.: 684

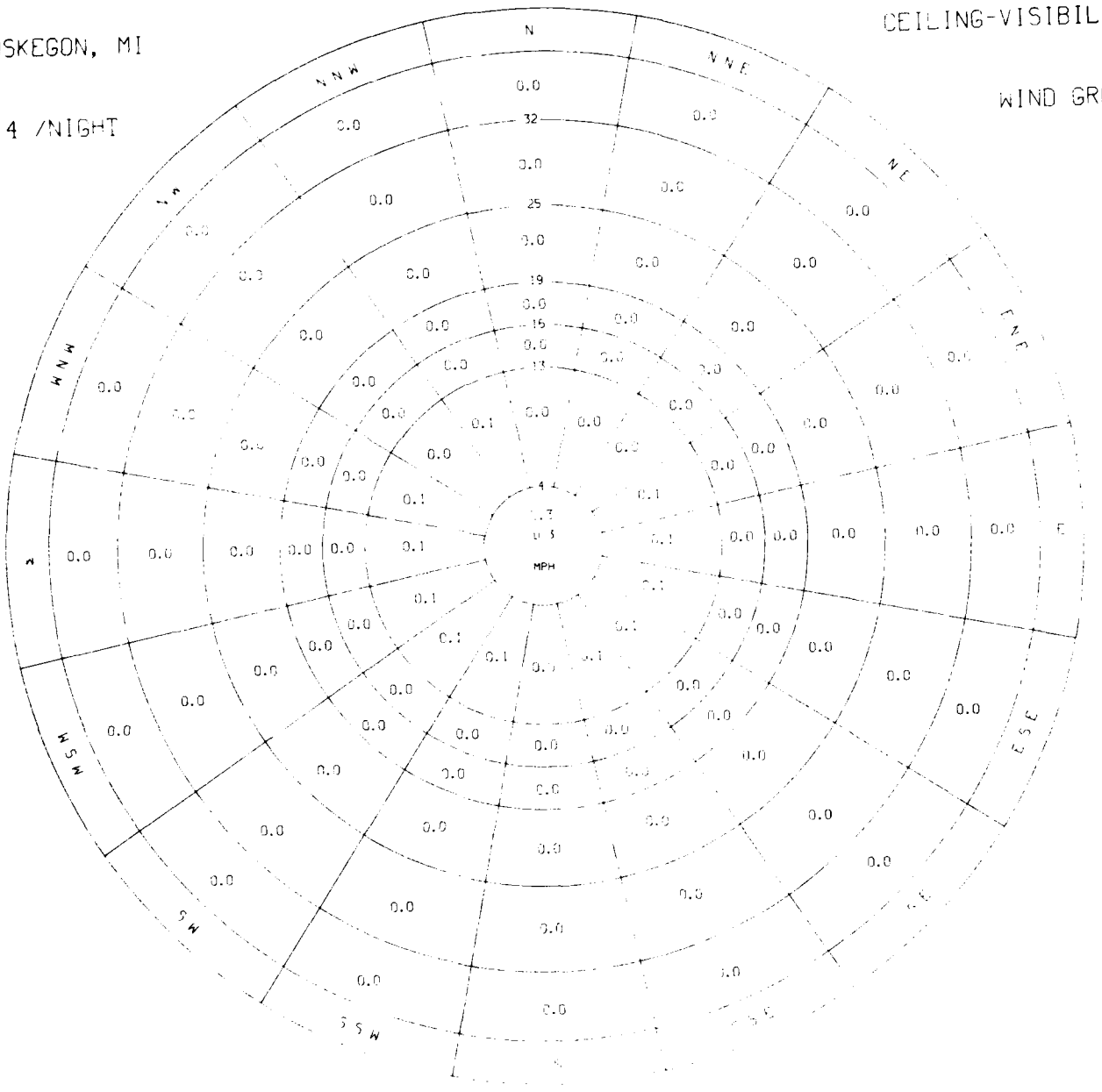
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.1	.0	2.0	.0	.0	.0	1.0	.0	.6	.0	.0	.0	.0	.1	3.8	12.0
NNE	.0	.4	.0	1.2	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.0	9.0
NE	.0	.4	.0	1.8	.0	.3	.0	.3	.0	.1	.0	.1	.0	.0	.1	3.1	9.9
ENE	.0	.0	.1	3.9	.0	.3	.0	.4	.0	.3	.0	.0	.0	.0	.1	5.0	10.2
E	.0	1.0	.1	6.1	.0	.9	.0	.7	.0	.7	.0	.3	.0	.0	.2	9.8	10.0
ESE	.0	.3	.1	4.7	.0	1.8	.0	.9	.0	.1	.0	.0	.0	.0	.1	7.7	10.7
SE	.0	.6	.1	7.0	.0	.4	.0	.3	.0	.0	.0	.0	.0	.0	.2	8.3	8.1
SSE	.0	.4	.1	3.2	.0	.9	.0	.9	.0	.1	.0	.0	.0	.0	.1	5.6	10.5
S	.0	.6	.0	2.3	.0	.6	.0	.9	.0	.4	.0	.0	.0	.0	.1	4.8	11.1
SSW	.0	.0	.1	3.5	.0	1.8	.0	.7	.0	1.0	.0	.1	.0	.1	.1	7.3	13.3
SW	.0	.7	.1	4.1	.0	1.3	.0	1.3	.0	.6	.0	.3	.0	.1	.2	8.5	12.0
WSW	.0	.1	.0	2.5	.0	.4	.0	.7	.0	.7	.0	.3	.0	.0	.1	4.8	13.2
W	.0	1.0	.1	3.4	.0	1.2	.0	1.6	.0	1.2	.0	.0	.0	.0	.2	8.3	12.1
WNW	.0	.3	.1	3.2	.0	.4	.0	1.0	.0	1.8	.0	.1	.0	.0	.1	6.9	13.6
NW	.0	.4	.0	2.5	.0	1.2	.0	.4	.0	1.6	.0	.3	.0	.1	.1	6.6	14.7
NNW	.0	.3	.0	1.8	.0	.3	.0	.7	.0	.4	.0	.6	.0	.0	.1	4.1	14.1
CALM	.1	3.4													.1	3.4	
TOTAL	.2	10.2	1.0	53.2	.2	12.0	.2	12.1	.2	9.8	.0	2.2	.0	.4	1.8	100	11.2

MKG MUSKEGON, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MUSKEGON, MI

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14840

NO. OBS.: 703

DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	4.1	.0	.6	.0	.3	.0	.3	.0	.1	.0	.0	.1	4.0	9.9
NNE	.0	.3	.0	2.1	.0	.1	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.0	8.4
NE	.0	1.1	.0	3.1	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.1	3.8	7.3
ENE	.0	.7	.1	4.3	.0	.7	.0	.3	.0	.0	.0	.0	.0	.0	.1	5.1	8.9
E	.0	.6	.1	6.7	.0	.9	.0	.9	.0	.4	.0	.0	.0	.0	.2	9.5	9.3
ESE	.0	.3	.1	7.1	.0	1.3	.0	.4	.0	.4	.0	.0	.0	.0	.2	10.0	9.6
SE	.0	1.1	.1	4.3	.0	.7	.0	.4	.0	.0	.0	.0	.0	.0	.1	6.7	8.1
SSE	.0	.3	.1	2.4	.0	.7	.0	.6	.0	.0	.0	.0	.0	.0	.1	4.1	10.4
S	.2	.4	.0	2.6	.0	1.4	.0	.3	.0	.4	.0	.1	.0	.0	.1	5.3	12.3
SSW	.0	.2	.1	2.8	.0	1.7	.0	.9	.0	1.1	.0	.1	.0	.0	.1	6.7	13.6
SW	.0	.5	.1	2.1	.0	1.0	.0	.6	.0	1.3	.0	.0	.0	.0	.1	6.5	11.7
WSW	.0	.3	.1	2.1	.0	.9	.0	.4	.0	.9	.0	.0	.0	.0	.1	5.7	11.9
W	.0	.1	.1	3.1	.0	1.3	.0	.3	.0	1.6	.0	.3	.0	.0	.1	6.5	13.3
WNW	.0	.4	.1	3.1	.0	.4	.0	.7	.0	1.7	.0	.3	.0	.1	.1	7.0	13.9
NW	.0	.2	.0	2.4	.0	.7	.0	.3	.0	1.1	.0	.9	.0	.0	.1	5.7	14.4
NNW	.0	.1	.1	2.1	.0	1.1	.0	.6	.0	.6	.0	.1	.0	.0	.1	5.0	13.0
CALM	.4														.1	6.4	
TOTAL	1.0		1.1	43.8			.2	9.4		9.2	.0	2.1	.0	.1	2.1	100	10.4

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WIND - CEILING - VISIBILITY DATA AT SELECTED AIRPORTS. VOLUME I--ETC(U)
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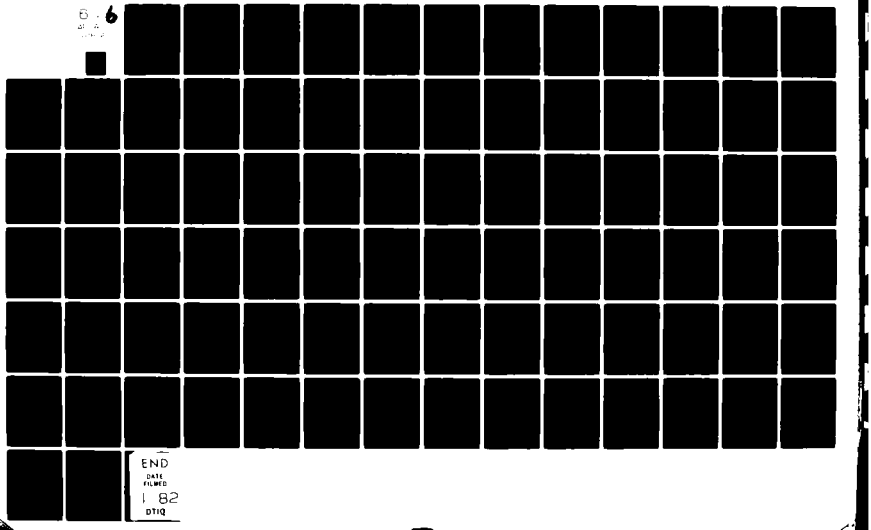

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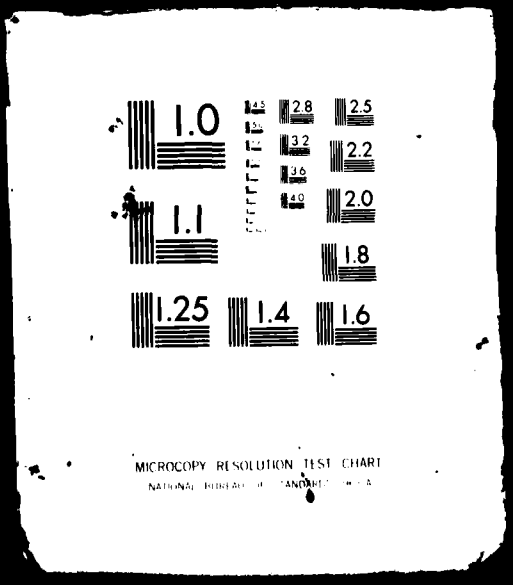
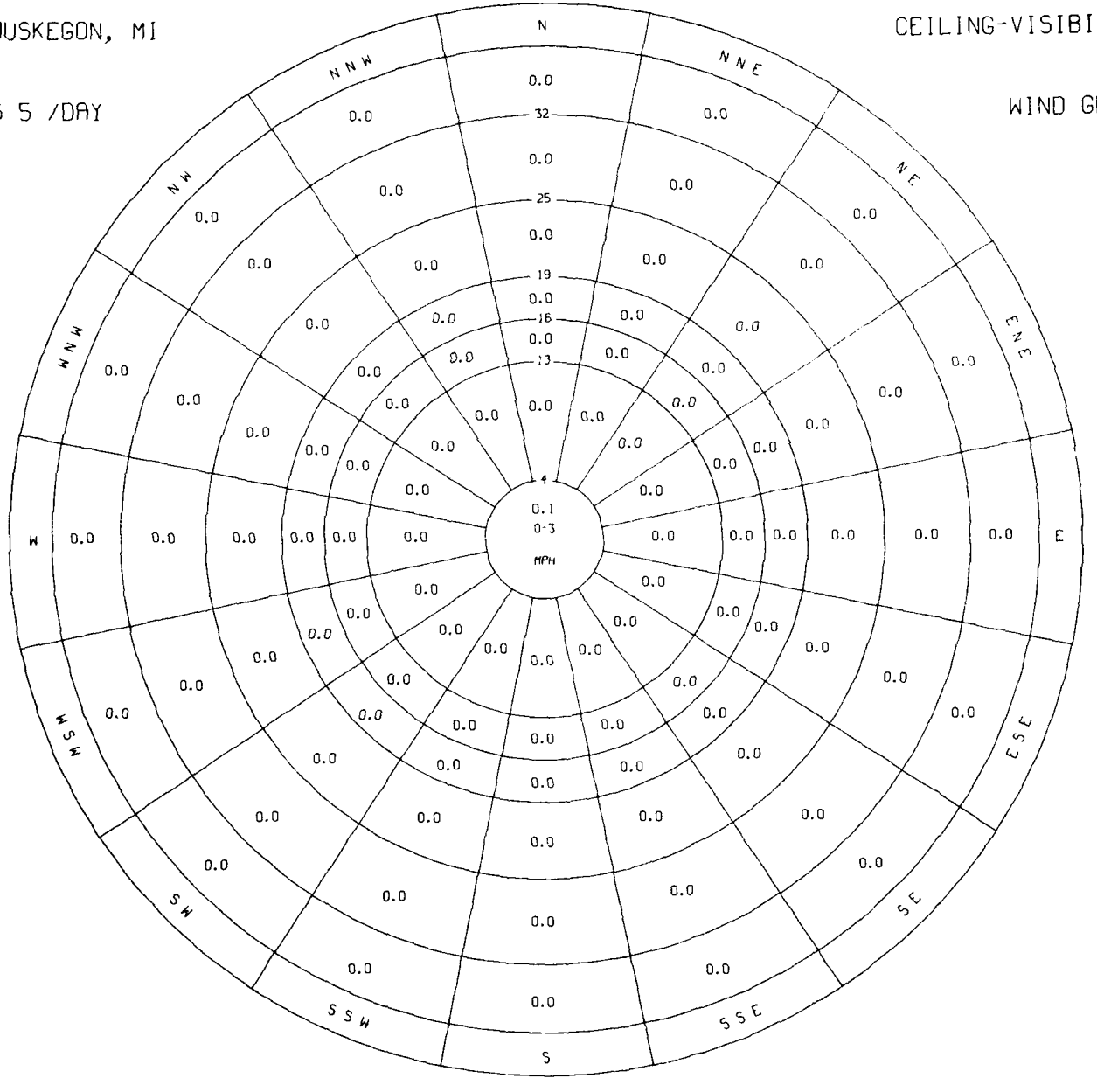


MKG MUSKEGON, MI

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14840

NO. OBS.: 169

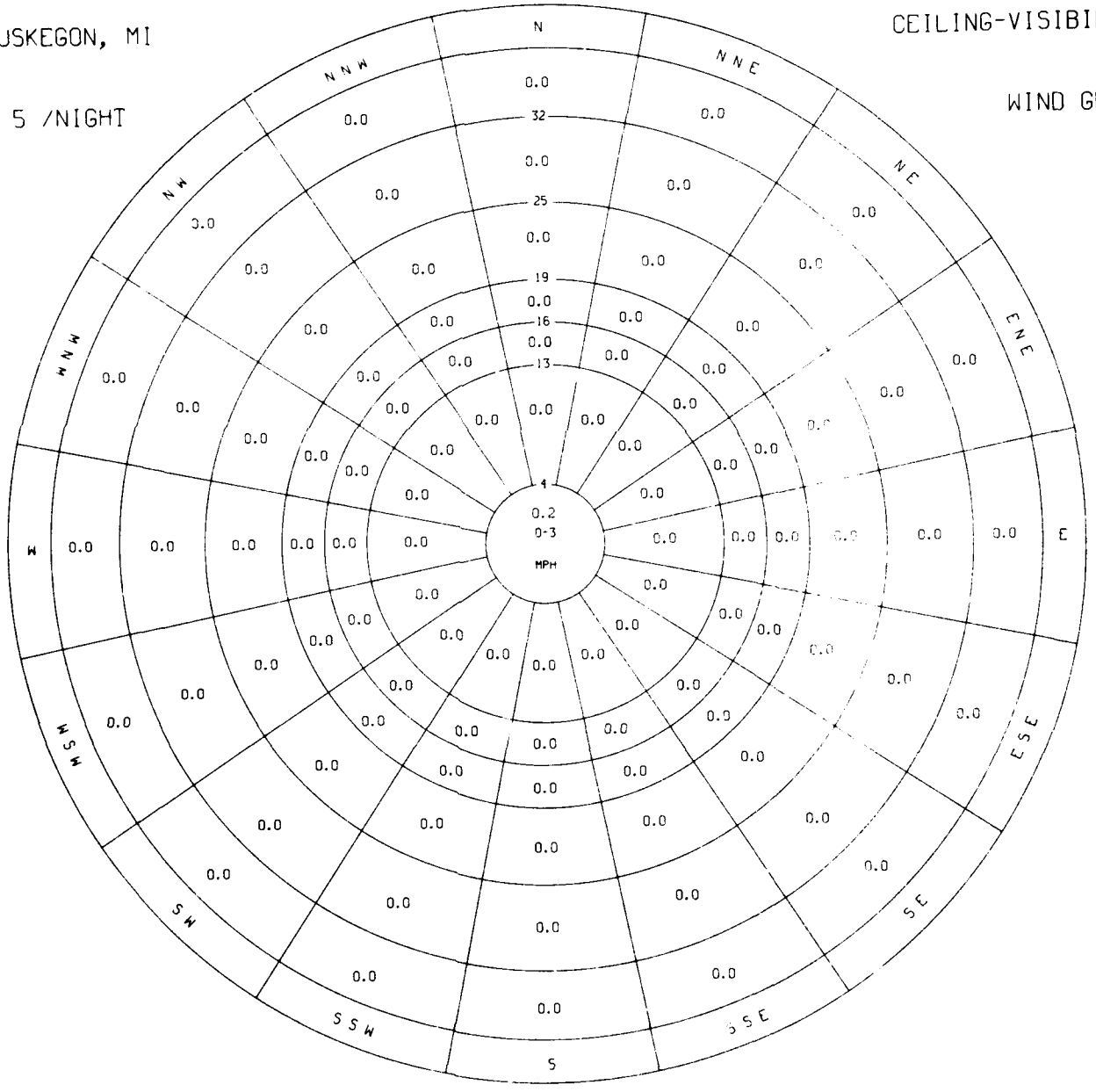
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	2.4	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	3.0	9.0
NNE	.0	.6	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.4	7.0
NE	.0	1.2	.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	5.7
ENE	.0	.0	.0	4.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.1	7.1
E	.0	.0	.0	3.0	.0	.6	.0	.0	.0	1.2	.0	.0	.0	.0	.0	4.7	11.2
ESE	.0	1.2	.0	3.6	.0	.6	.0	.0	.0	.6	.0	.6	.0	.0	.0	6.5	10.4
SE	.0	2.4	.0	4.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.3	7.1
SSE	.0	.0	.0	3.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	3.6	9.0
S	.0	.0	.0	6.5	.0	1.2	.0	1.2	.0	.6	.0	.0	.0	.0	.0	9.5	11.3
SSW	.0	.0	.0	4.1	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.3	10.0
SW	.0	.0	.0	5.9	.0	3.6	.0	2.4	.0	1.8	.0	.0	.0	.0	.1	13.6	13.1
WSW	.0	.6	.0	1.8	.0	1.2	.0	1.2	.0	.6	.0	.6	.0	.6	.0	6.5	15.7
W	.0	.0	.0	3.6	.0	.6	.0	.0	.0	2.4	.0	.0	.0	.0	.0	6.5	12.7
WNW	.0	1.8	.0	4.7	.0	.6	.0	.0	.0	1.8	.0	.6	.0	.0	.0	9.5	11.4
NW	.0	.6	.0	.6	.0	.6	.0	.6	.0	1.8	.0	.0	.0	.0	.0	4.1	15.4
NNW	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.6	.0	1.2	.0	3.0	20.6
CALM	.0	5.3													.0	5.3	
TOTAL	.1	13.6	.2	53.8	.1	11.2	.0	6.5	.0	10.7	.0	2.4	.0	1.8	.5	100	10.6

MKG MUSKEGON, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14840

NO. OBS.: 248

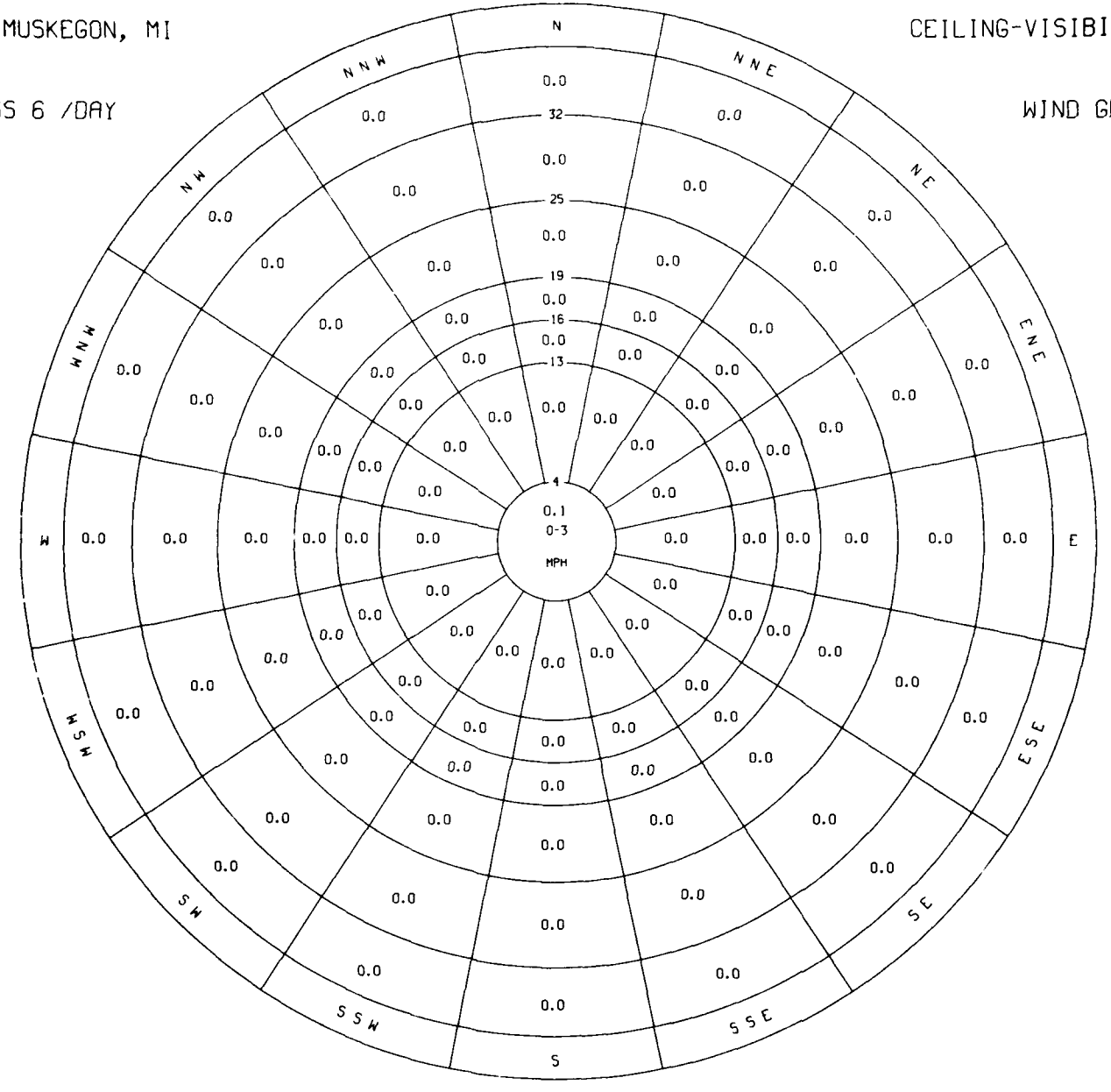
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.8	.0	4.4	.0	.0	.0	.0	.0	.4	.0	.0	.0	.0	.0	5.6	7.6
NNE	.0	.0	.0	2.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	6.3
NE	.0	1.2	.0	1.6	.0	.0	.0	.4	.0	.0	.0	.0	.0	.0	.0	3.2	5.7
ENE	.0	.4	.0	3.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	7.5
E	.0	.8	.0	5.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	6.6
ESE	.0	.4	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	7.8
SE	.0	2.0	.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.1	6.1
SSE	.0	.8	.0	1.2	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	2.8	8.7
S	.0	.0	.0	4.0	.0	.8	.0	.8	.0	.0	.0	.0	.0	.4	.0	6.0	10.7
SSW	.0	1.2	.0	2.0	.0	1.2	.0	.0	.0	1.6	.0	.0	.0	.0	.0	6.0	11.5
SW	.0	.8	.0	3.2	.0	1.2	.0	.8	.0	.4	.0	.0	.0	.4	.1	6.9	12.6
WSW	.0	.0	.0	6.0	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.1	7.3	9.6
W	.0	1.2	.0	2.0	.0	.4	.0	.8	.0	2.0	.0	.8	.0	.0	.1	7.3	14.1
WNW	.0	.4	.0	4.0	.0	.0	.0	2.0	.0	.8	.0	.4	.0	.4	.1	8.1	13.9
NW	.0	.4	.0	2.8	.0	.4	.0	.0	.0	.0	.0	1.2	.0	.4	.0	5.2	14.5
NNW	.0	.4	.0	1.6	.0	.0	.0	.8	.0	.0	.0	.4	.0	.0	.0	3.2	11.9
CALM	.1	10.9													.1	10.9	
TOTAL	.2	21.8	.4	56.5	.0	4.8	.1	6.9	.0	5.6	.0	2.8	.0	1.6	.8	100	8.9

MKG MUSKEGON, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 14840

NO. OBS.: 177

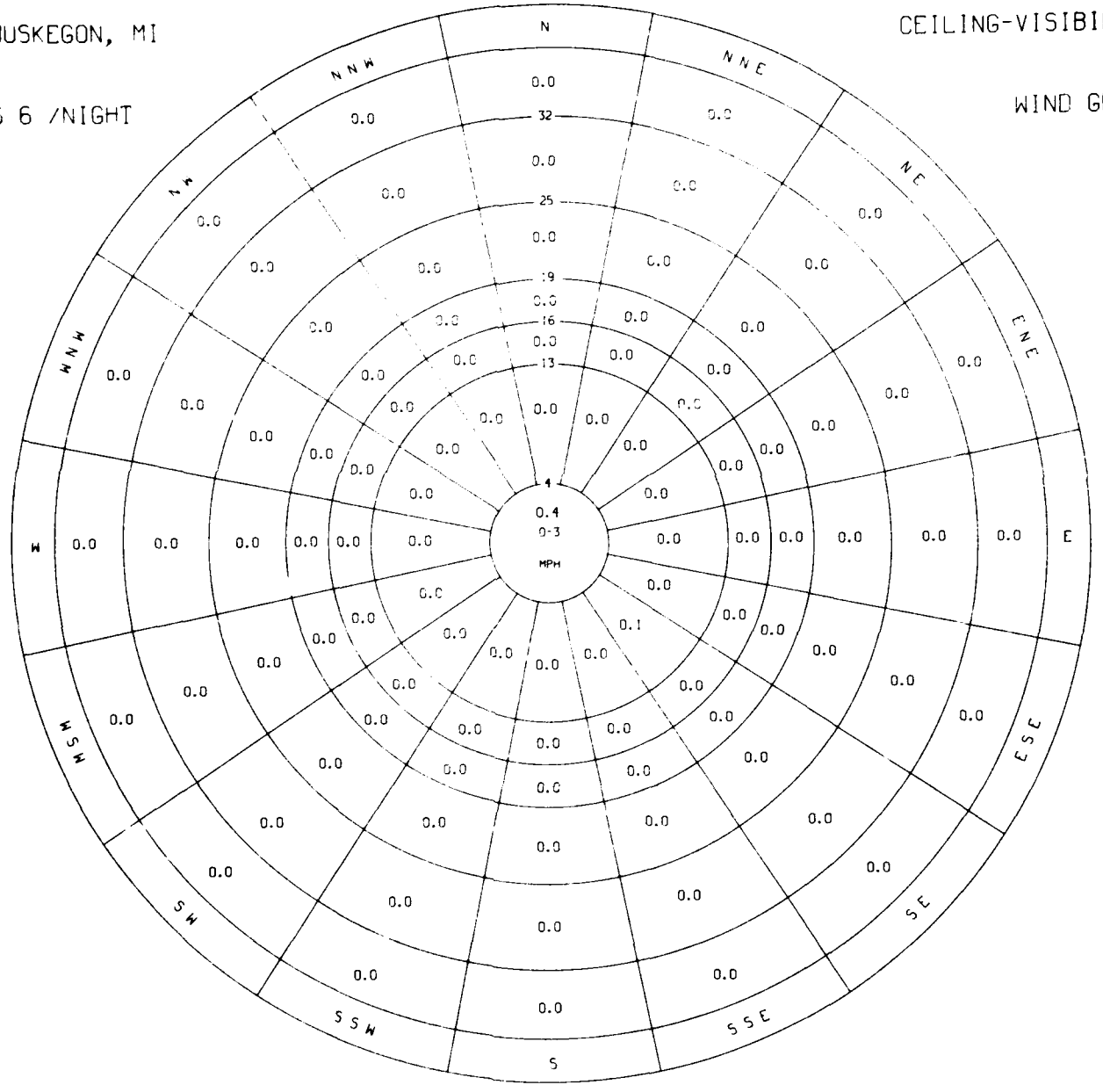
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.6	.0	.0	.0	1.7	14.0
NNE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
NE	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	1.5
ENE	.0	1.1	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.4	4.8
E	.0	1.1	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.8	6.5
ESE	.0	2.3	.0	4.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	6.8	6.7
SE	.0	2.3	.0	5.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.3	5.5
SSE	.0	2.8	.0	4.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	7.3	7.0
S	.0	1.7	.0	8.5	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.7	6.8
SSW	.0	.0	.0	4.5	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	5.6	8.7
SW	.0	1.7	.0	5.6	.0	3.4	.0	.0	.0	.6	.0	.0	.0	.6	.1	11.9	10.0
WSW	.0	.6	.0	2.8	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.1	9.5
W	.0	1.1	.0	4.5	.0	.6	.0	.0	.0	1.1	.0	.0	.0	.0	.0	7.3	9.7
WNW	.0	.6	.0	4.5	.0	.0	.0	.0	.0	1.1	.0	.0	.0	.0	.0	6.2	9.1
NW	.0	.0	.0	1.7	.0	.0	.0	.0	.0	1.1	.0	.0	.0	1.1	.0	4.0	19.6
NNW	.0	.0	.0	.0	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.1	15.5
CALM	.1	13.6													.1	13.6	
TOTAL	.1	29.9	.3	54.2	.0	7.3	.0	1.7	.0	4.5	.0	.6	.0	1.7	.5	100	7.3

MKG MUSKEGON, MI

CLASS 6 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MKG MUSKEGON, MI

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14840

NO. OBS.: 279

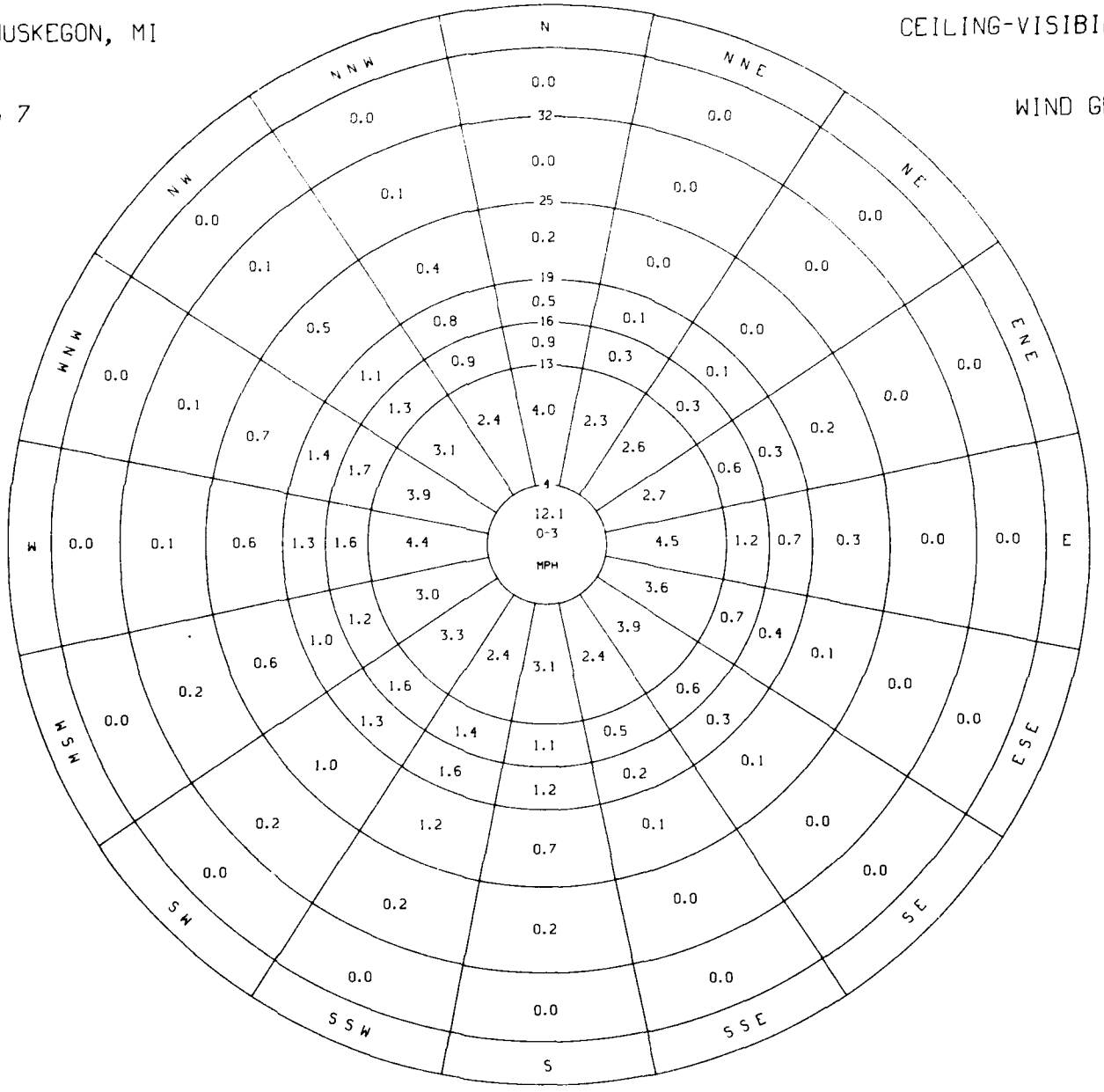
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.6
NNE	.0	.7	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.8	5.0
NE	.0	2.5	.0	1.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	4.8
ENE	.0	1.4	.0	1.8	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.6	5.3
E	.0	5.7	.0	3.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.7	4.4
ESE	.0	.7	.0	3.2	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.3	5.9
SE	.0	2.5	.1	6.5	.0	.4	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.3	5.9
SSE	.0	1.1	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.4	.0	.0	.0	4.3	7.5
S	.0	1.8	.0	3.6	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.1	6.5	6.4
SSW	.0	1.1	.0	3.9	.0	.4	.0	.0	.0	.7	.0	.0	.0	.7	.1	6.8	12.7
SW	.0	3.2	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	9.0	5.6
WSW	.0	.7	.0	2.2	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.9	8.3
W	.0	1.1	.0	4.3	.0	.4	.0	.4	.0	.4	.0	.0	.0	.0	.1	6.5	8.3
WNW	.0	.0	.0	3.6	.0	.0	.0	.0	.0	.0	.0	.7	.0	.0	.0	4.3	10.1
NW	.0	.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.4	.0	.4	.0	2.9	13.1
NNW	.0	.4	.0	1.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.2	5.8
CALM	.2	18.6													.2	18.6	
TOTAL	.4	42.7	.4	49.1	.0	4.3	.0	.4	.0	1.1	.0	1.4	.0	1.1	.9	100	5.7

MKG MUSKEGON, MI

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

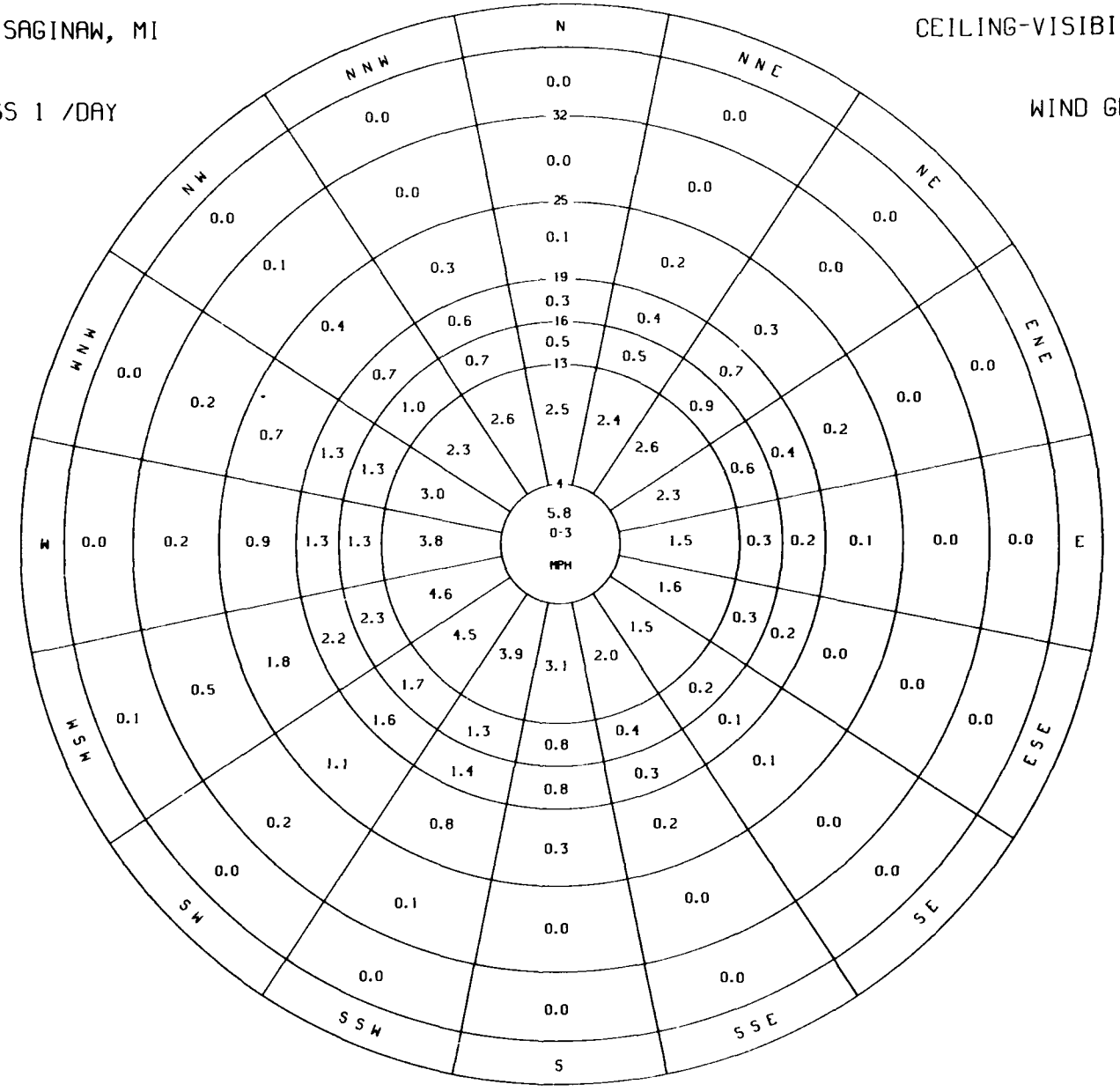


MBS SAGINAW, MI

CEILING-VISIBILITY

CLASS 1 /DAY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 1 / DAY

STATION NUMBER: 14845

NO. OBS.: 14953

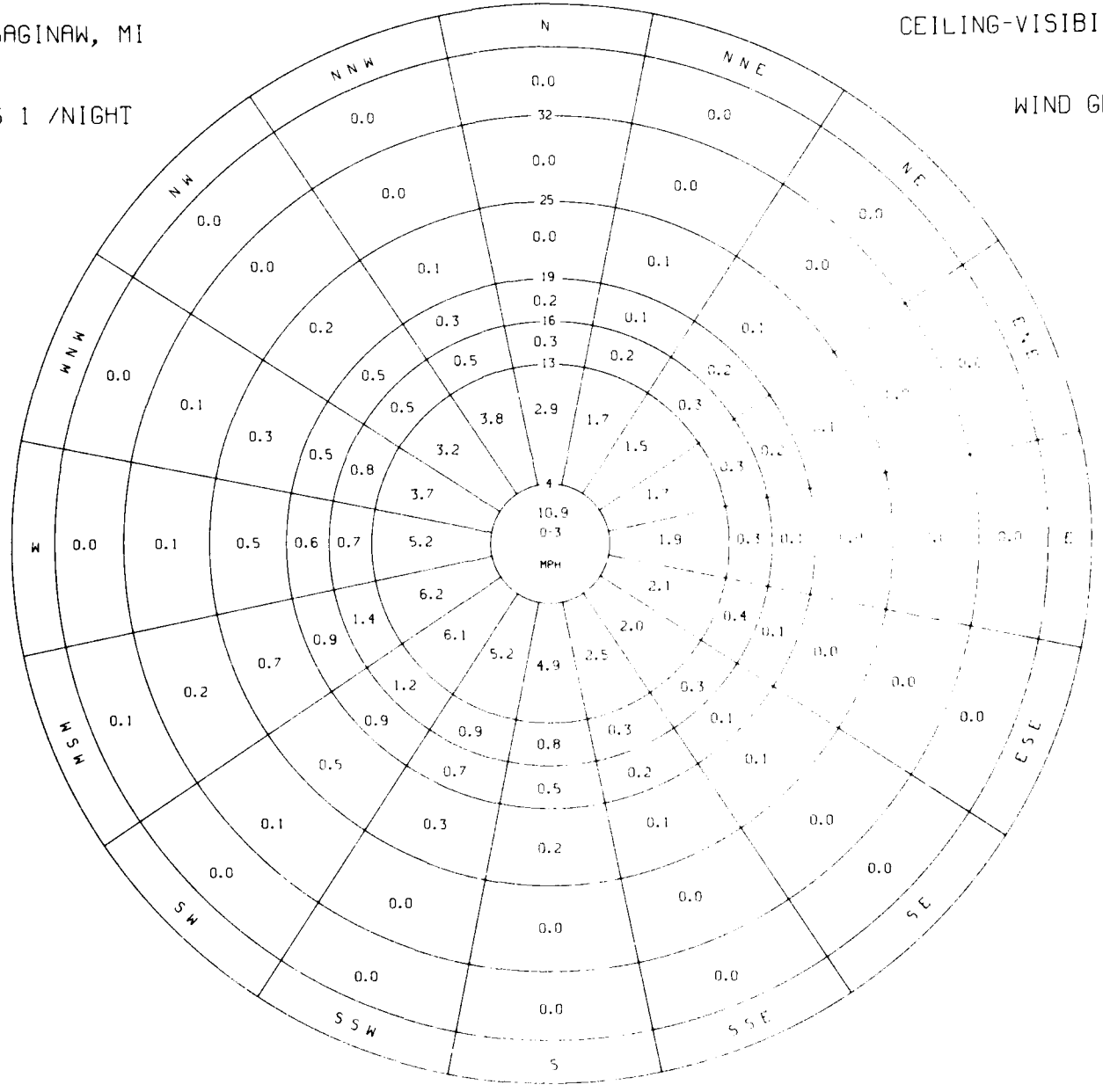
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.3	.4	2.5	3.0	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	3.8	4.4	9.7
NNE	.3	.4	2.4	2.8	.5	.6	.4	.5	.2	.2	.0	.0	.0	.0	3.9	4.6	10.5
NE	.2	.3	2.6	3.0	.9	1.1	.7	.9	.3	.4	.0	.0	.0	.0	4.8	5.6	11.7
ENE	.2	.2	2.3	2.7	.6	.7	.4	.5	.2	.3	.0	.0	.0	.0	3.7	4.4	11.0
E	.2	.2	1.5	1.7	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.2	2.6	9.8
ESE	.3	.3	1.6	1.9	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	2.4	2.8	9.4
SE	.4	.4	1.5	1.7	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	2.3	2.7	8.7
SSE	.3	.3	2.0	2.3	.4	.5	.3	.4	.2	.2	.0	.0	.0	.0	3.2	3.7	10.5
S	.3	.4	3.1	3.6	.8	1.0	.8	.9	.3	.4	.0	.0	.0	.0	5.4	6.3	11.2
SSW	.3	.4	3.9	4.6	1.3	1.5	1.4	1.6	.8	.9	.1	.1	.0	.0	7.7	9.0	12.3
SW	.5	.5	4.5	5.2	1.7	2.0	1.6	1.8	1.1	1.3	.2	.2	.0	.1	9.6	11.2	12.8
WSW	.3	.4	4.6	5.4	2.3	2.7	2.2	2.6	1.8	2.0	.5	.6	.1	.2	11.9	13.9	14.2
W	.5	.6	3.8	4.5	1.3	1.5	1.3	1.5	.9	1.0	.2	.2	.0	.0	8.0	9.3	12.3
WNW	.3	.3	3.0	3.4	1.3	1.5	1.3	1.5	.7	.8	.2	.2	.0	.0	6.7	7.8	13.0
NW	.3	.3	2.3	2.7	1.0	1.1	.7	.8	.4	.5	.1	.1	.0	.0	4.7	5.5	12.0
NNW	.3	.3	2.6	3.0	.7	.8	.6	.7	.3	.4	.0	.0	.0	.0	4.5	5.2	11.1
CALM	1.0	1.1													1.0	1.1	
TOTAL	5.8	6.8	44.1	51.4	14.3	16.7	12.5	14.6	7.5	8.7	1.3	1.6	.2	.3	85.8	100	11.8

MBS SAGINAW, MI

CEILING-VISIBILITY

CLASS 1 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 1 / NIGHT

STATION NUMBER: 14845

NO. OBS.: 12527

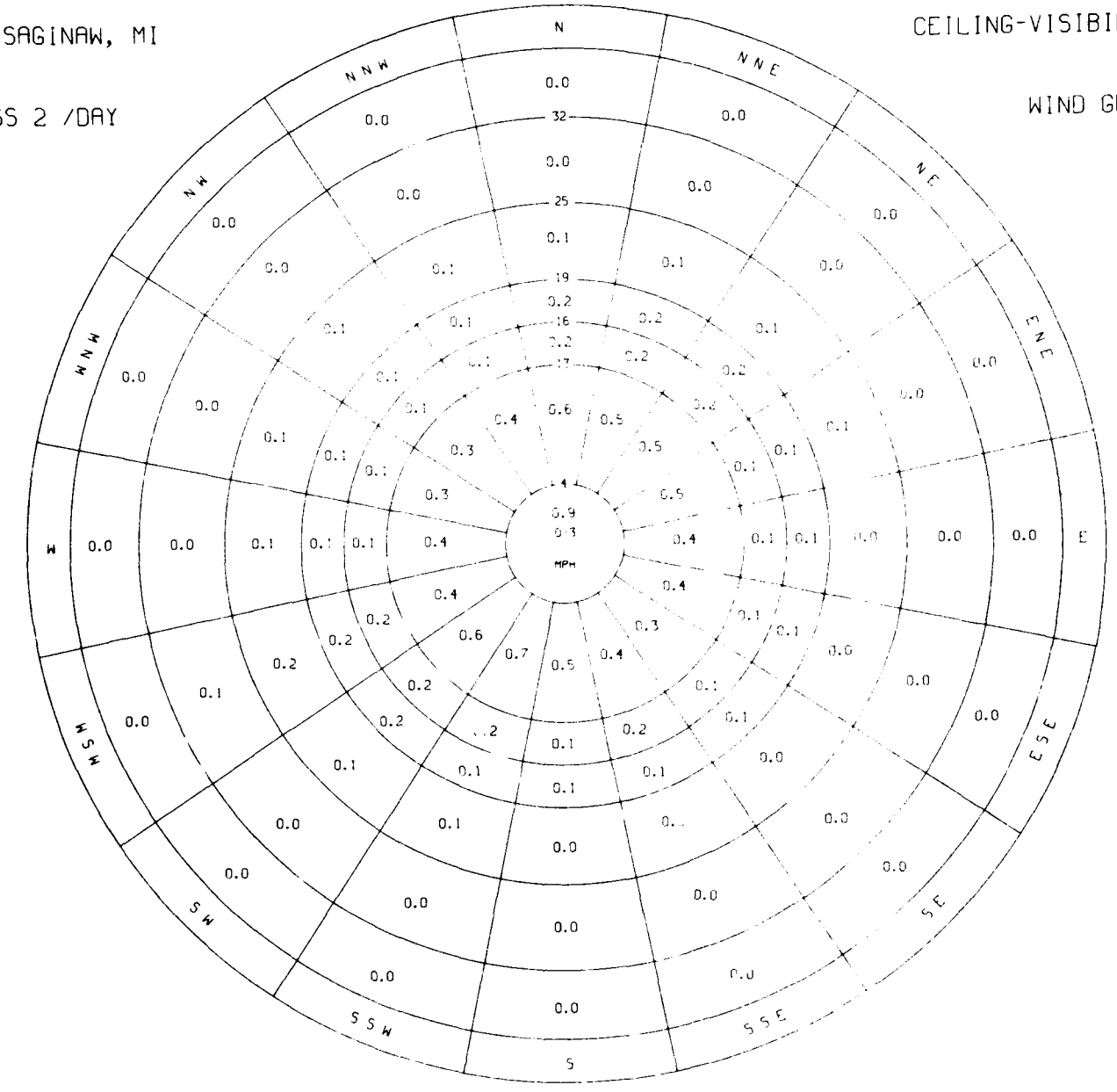
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.7	.8	2.9	3.4	.3	.4	.2	.2	.0	.1	.0	.0	.0	.0	4.1	4.8	7.8
NNE	.5	.5	1.7	2.0	.2	.3	.1	.2	.1	.1	.0	.0	.0	.0	2.6	3.1	8.5
NE	.5	.5	1.5	1.7	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.5	2.9	8.9
ENE	.3	.4	1.7	2.0	.3	.4	.2	.2	.1	.2	.0	.0	.0	.0	2.7	3.2	9.5
E	.3	.3	1.9	2.2	.3	.4	.1	.2	.0	.0	.0	.0	.0	.0	2.6	3.1	9.1
ESE	.5	.6	2.1	2.5	.4	.4	.1	.1	.0	.0	.0	.0	.0	.0	3.2	3.7	8.1
SE	.5	.5	2.0	2.4	.3	.4	.1	.1	.1	.1	.0	.0	.0	.0	3.0	3.5	8.3
SSE	.4	.5	2.5	3.0	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	3.6	4.2	9.3
S	.5	.6	4.9	5.7	.8	.9	.5	.6	.2	.2	.0	.0	.0	.0	6.9	8.2	9.5
SSW	.5	.6	5.2	6.1	.9	1.1	.7	.9	.3	.4	.0	.0	.0	.0	7.7	9.1	10.2
SW	1.0	1.2	6.1	7.2	1.2	1.4	.9	1.0	.5	.6	.1	.2	.0	.0	9.8	11.5	10.0
WSW	.7	.8	6.2	7.2	1.4	1.6	.9	1.0	.7	.8	.2	.2	.1	.1	10.0	11.8	11.1
W	.9	1.0	5.2	6.1	.7	.9	.6	.8	.5	.6	.1	.1	.0	.0	8.1	9.5	9.8
WNW	.5	.6	3.7	4.3	.8	.9	.5	.5	.3	.4	.1	.1	.0	.0	5.8	6.8	10.3
NW	.5	.6	3.2	3.8	.5	.6	.5	.6	.2	.3	.0	.0	.0	.0	5.0	5.8	9.7
NNW	.5	.6	3.8	4.5	.5	.6	.3	.3	.1	.2	.0	.0	.0	.0	5.3	6.2	8.8
CALM	2.3	2.7													2.3	2.7	
TOTAL	10.9	12.8	54.7	64.1	9.4	11.0	6.0	7.0	3.4	4.0	.7	.8	.2	.2	85.2	100	9.4

MBS SAGINAW, MI

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 2 / DAY

STATION NUMBER: 14848

NO. OBS.: 2474

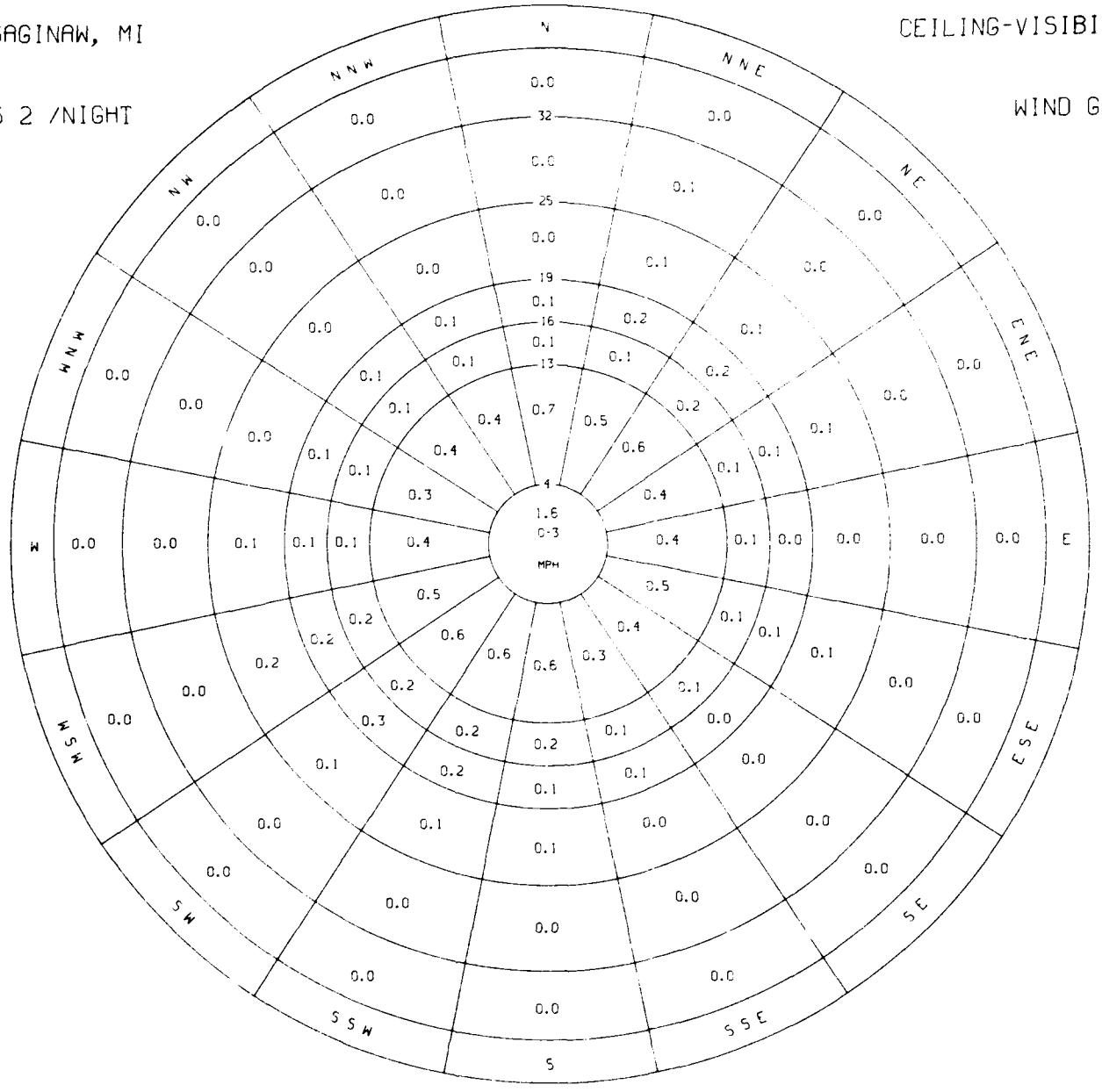
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.6	4.4	.2	1.3	.2	1.4	.1	.4	.0	.1	.0	.0	1.1	8.0	11.6
NNE	.1	.4	.5	3.6	.2	1.3	.2	1.2	.1	1.0	.0	.3	.0	.0	1.1	7.8	13.0
NE	.0	.3	.5	3.6	.2	1.5	.2	1.7	.1	1.0	.0	.2	.0	.0	1.2	8.4	13.1
ENE	.0	.3	.5	3.2	.1	1.0	.1	.6	.1	.6	.0	.2	.0	.0	.8	6.0	12.4
E	.0	.2	.4	2.5	.1	.6	.1	.6	.0	.3	.0	.0	.0	.0	.6	4.3	11.2
ESE	.1	.4	.4	3.0	.1	.7	.1	.7	.0	.3	.0	.0	.0	.0	.7	5.1	10.8
SE	.0	.3	.3	2.4	.1	.8	.1	.5	.0	.1	.0	.0	.0	.0	.6	4.1	10.7
SSE	.0	.3	.4	2.7	.2	1.2	.1	.6	.0	.3	.0	.1	.0	.0	.7	5.2	11.8
S	.0	.3	.5	3.2	.1	.9	.1	.8	.0	.3	.0	.0	.0	.0	.8	5.7	11.0
SSW	.1	.4	.7	4.7	.2	1.2	.1	.7	.1	.5	.0	.1	.0	.0	1.1	7.6	11.1
SW	.0	.3	.6	4.1	.2	1.6	.2	1.5	.1	1.0	.0	.2	.0	.0	1.2	8.7	12.8
WSW	.0	.2	.4	3.1	.2	1.7	.2	1.5	.2	1.4	.1	.6	.0	.3	1.3	8.9	15.2
W	.0	.3	.4	2.7	.1	.8	.1	.8	.1	.8	.0	.2	.0	.0	.8	5.7	12.8
WNW	.0	.2	.3	2.1	.1	.8	.1	.8	.1	.5	.0	.2	.0	.0	.7	4.6	13.1
NW	.0	.2	.3	1.8	.1	.7	.1	.4	.1	.5	.0	.0	.0	.0	.5	3.7	12.0
NNW	.0	.3	.4	2.6	.1	.8	.1	.6	.1	.4	.0	.0	.0	.0	.7	4.8	11.5
CALM	.2	.4													.2	1.4	
TOTAL	.9	6.2	7.1	49.9	2.4	17.1	2.1	14.7	1.3	9.3	.3	2.3	.1	.4	14.2	100	12.1

MBS SAGINAW, MI

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 2 / NIGHT

STATION NUMBER: 14845

NO. OBS.: 2170

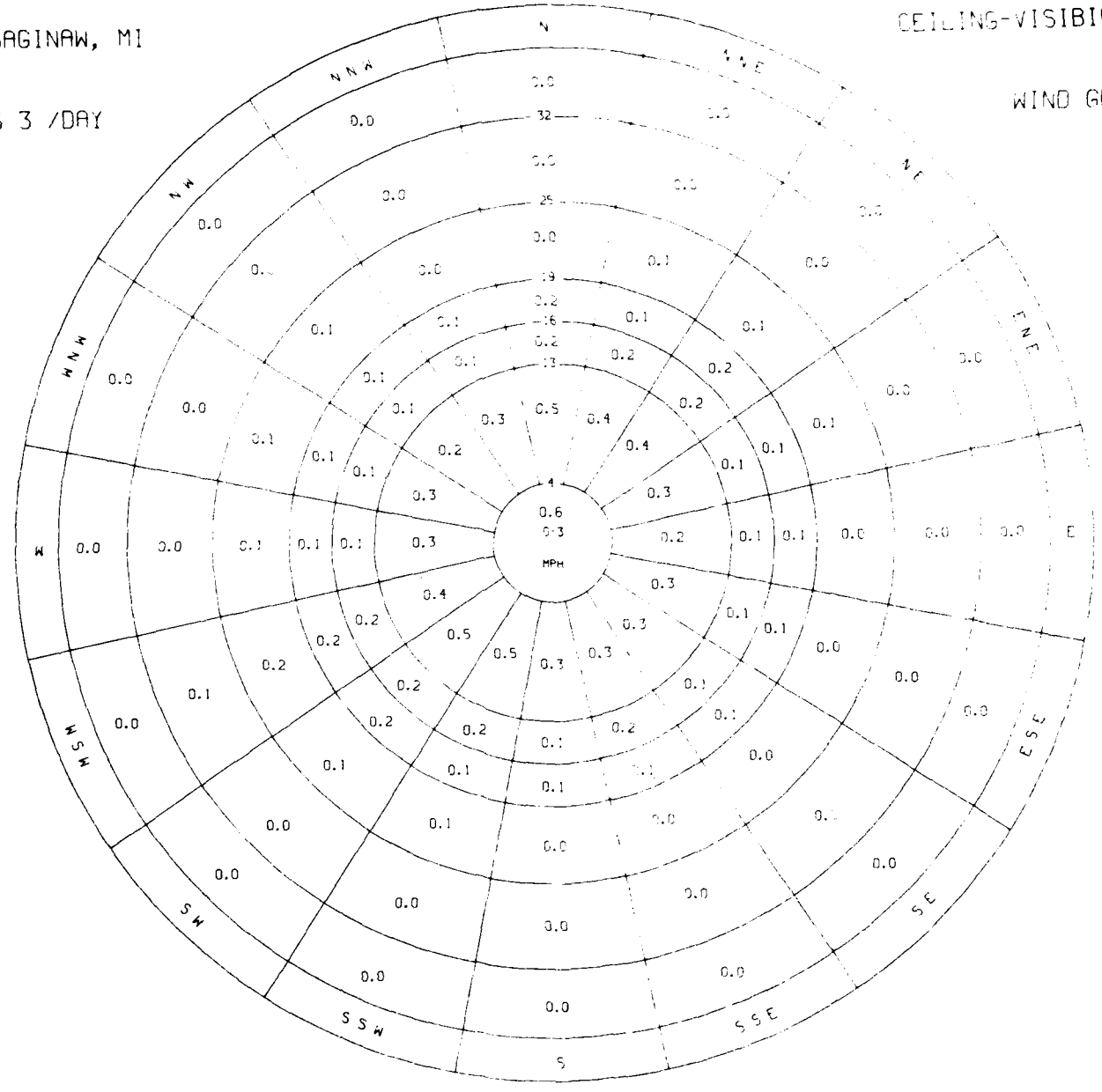
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	1.0	.7	4.7	.1	.7	.1	1.0	.0	.2	.0	.0	.0	.0	1.1	7.7	9.9
NNE	.1	.6	.5	3.4	.1	.9	.2	1.5	.1	1.0	.1	.4	.0	.0	1.1	7.7	12.7
NE	.1	.5	.6	3.8	.2	1.6	.2	1.3	.1	.9	.0	.3	.0	.1	1.3	8.5	13.2
ENE	.1	.7	.4	2.8	.1	1.0	.1	1.0	.1	.7	.0	.1	.0	.1	.9	6.4	12.5
E	.0	.3	.4	2.8	.1	1.0	.0	.3	.0	.2	.0	.0	.0	.0	.7	4.6	10.6
ESE	.1	.7	.5	3.5	.1	.5	.1	.6	.1	.4	.0	.0	.0	.0	.8	5.7	9.9
SE	.0	.2	.4	2.7	.1	.4	.0	.2	.0	.2	.0	.0	.0	.0	.5	3.7	9.8
SSE	.1	.4	.3	2.1	.1	.8	.1	.4	.0	.2	.0	.0	.0	.0	.6	3.9	10.9
S	.1	.5	.6	3.7	.2	1.4	.1	.8	.1	.4	.0	.0	.0	.0	1.0	6.8	10.9
SSW	.0	.3	.6	3.8	.2	1.4	.2	1.3	.1	.4	.0	.1	.0	.0	1.1	7.3	11.7
SW	.1	.8	.6	4.2	.2	1.2	.3	1.7	.1	.3	.0	.1	.0	.0	1.3	9.0	12.0
WSW	.1	.8	.5	3.3	.2	1.1	.2	1.2	.2	.1	.0	.3	.0	.1	1.2	7.8	12.9
W	.1	.5	.4	2.7	.1	.6	.1	.6	.1	.5	.0	.0	.0	.0	.7	4.8	10.9
WNW	.0	.3	.3	2.3	.1	.9	.1	.5	.0	.3	.0	.1	.0	.0	.7	4.4	10.9
NW	.0	.3	.4	2.5	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.6	4.0	10.4
NNW	.1	.6	.4	2.9	.1	.7	.1	.7	.0	.3	.0	.1	.0	.0	.8	5.4	11.2
CALM	.3	2.3													.3	2.3	
TOTAL	1.6	10.6	7.6	51.3	2.2	14.7	2.0	13.3	1.1	7.8	.3	1.8	.1	.5	14.8	100	11.2

MBS SAGINAW, MI

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 3 / DAY

STATION NUMBER: 14845

NO. OBS.: 2016

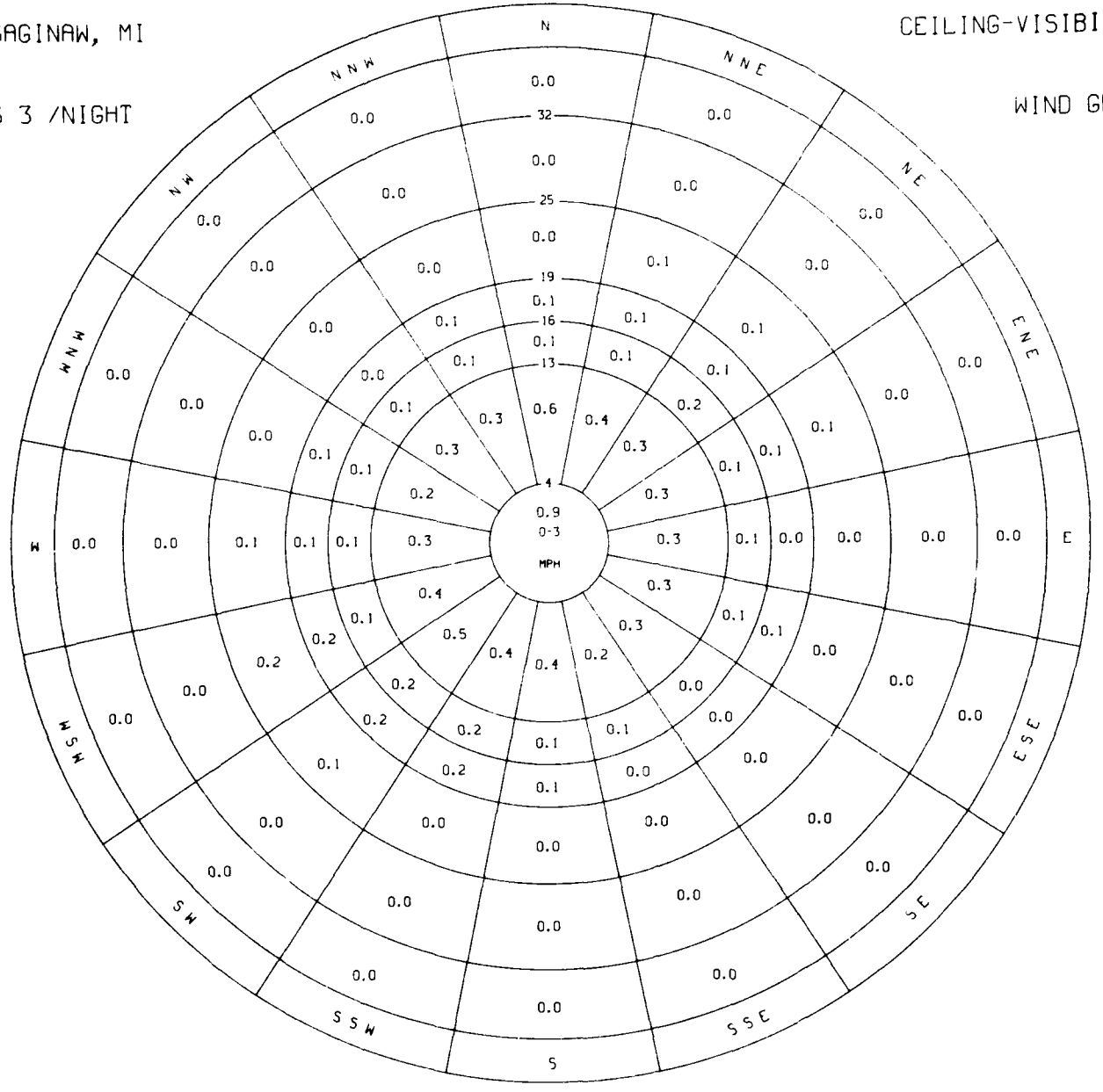
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-18		19-24		25-31		32+		TOTAL				
	A	B	A	B	A	B	A	B	A	B	A	B	C	D			
N	.0	.2	.5	4.0	.2	1.4	.2	1.5	.0	.4	.0	.1	.0	.0	.9	7.7	12.1
NNE	.0	.4	.4	3.4	.2	1.4	.1	1.3	.1	.9	.0	.3	.0	.0	.9	7.8	13.2
NE	.0	.3	.4	3.2	.2	1.4	.2	1.7	.1	.9	.0	.2	.0	.0	.9	7.7	13.3
ENE	.0	.3	.3	2.9	.1	.9	.1	.8	.1	.7	.0	.2	.0	.0	.7	5.8	13.0
E	.0	.1	.2	2.1	.1	.5	.1	.7	.0	.3	.0	.0	.0	.0	.4	3.7	11.9
ESE	.0	.2	.3	2.9	.1	.7	.1	.8	.0	.3	.0	.0	.0	.0	.6	5.0	11.5
SE	.0	.3	.3	2.2	.1	.7	.1	.6	.0	.0	.0	.0	.0	.0	.5	4.0	10.9
SSE	.0	.1	.3	2.8	.2	1.4	.1	.7	.0	.3	.0	.0	.0	.0	.6	5.4	11.9
S	.0	.2	.3	2.7	.1	.8	.1	1.0	.0	.4	.0	.0	.0	.0	.6	5.2	11.9
SSW	.0	.3	.5	4.3	.2	1.4	.1	.7	.1	.6	.0	.0	.0	.0	.9	7.4	11.8
SW	.0	.3	.5	4.0	.2	1.8	.2	1.7	.1	1.2	.0	.2	.0	.0	1.1	9.3	13.1
WSW	.0	.2	.4	3.5	.2	1.8	.2	1.8	.2	1.6	.1	.6	.0	.3	1.1	9.8	15.4
W	.0	.3	.3	2.9	.1	.9	.1	1.1	.1	.8	.0	.2	.0	.0	.7	6.3	13.1
WNW	.0	.1	.3	2.2	.1	.9	.1	.9	.1	.5	.0	.1	.0	.0	.6	4.9	13.3
NW	.0	.1	.2	1.7	.1	.9	.1	.5	.1	.5	.0	.0	.0	.0	.4	3.8	12.8
NNW	.0	.3	.3	2.8	.1	.8	.1	.7	.0	.4	.0	.0	.0	.0	.6	5.2	11.6
CALM	.1	.9													.1	.9	
TOTAL	.6	5.0	5.5	47.7	2.1	17.9	1.9	16.6	1.2	10.0	.3	2.4	.1	.4	11.6	100	12.6

MBS SAGINAW, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 3 / NIGHT

STATION NUMBER: 14845

NO. OBS.: 1618

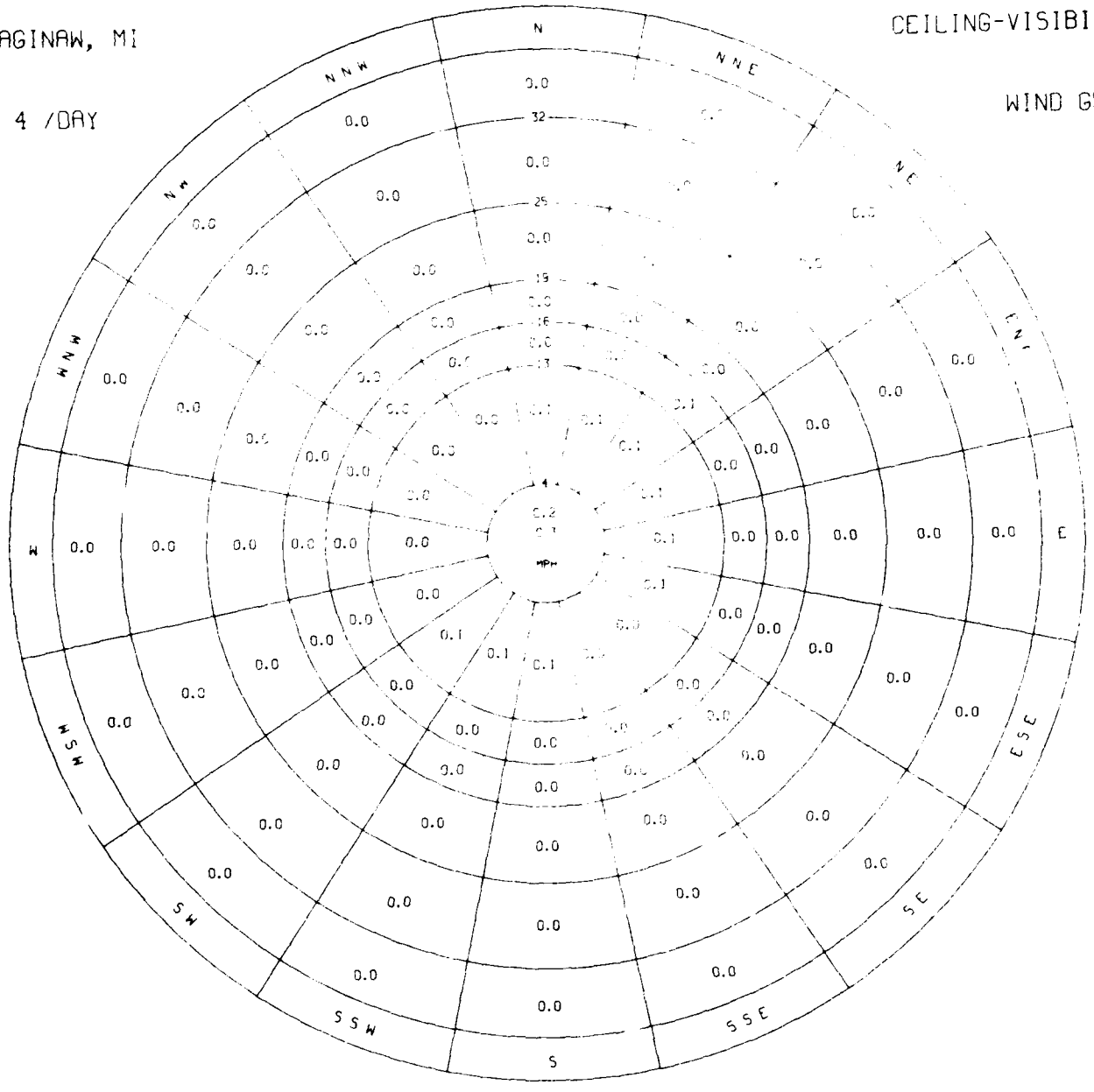
DIR	SPEED GROUPS (MPH) 0-3 A	0-3 B	4-12 A	4-12 B	13-15 A	13-15 B	16-18 A	16-18 B	19-24 A	19-24 B	25-31 A	25-31 B	32+ A	32+ B	TOTAL C	TOTAL D	AVG WIND SPEED
N	.1	.6	.6	5.1	.1	.7	.1	1.0	.0	.2	.0	.0	.0	.1	.8	7.7	10.3
NNE	.1	.5	.4	3.5	.1	1.0	.1	1.4	.1	1.1	.0	.4	.0	.0	.9	7.8	13.0
NE	.0	.4	.3	2.7	.2	1.5	.1	1.2	.1	.6	.0	.2	.0	.0	.7	6.7	13.1
ENE	.0	.4	.3	2.7	.1	.9	.1	1.0	.1	.9	.0	.1	.0	.1	.7	6.1	13.3
E	.0	.3	.3	2.3	.1	1.2	.0	.3	.0	.3	.0	.1	.0	.0	.5	4.5	11.3
ESE	.0	.4	.3	2.7	.1	.6	.1	.6	.0	.4	.0	.1	.0	.0	.5	4.8	11.2
SE	.0	.2	.3	3.0	.0	.4	.0	.2	.0	.2	.0	.0	.0	.0	.4	4.0	9.8
SSE	.0	.4	.2	2.1	.1	.8	.0	.4	.0	.2	.0	.0	.0	.0	.4	3.9	11.2
S	.0	.4	.4	3.6	.1	1.4	.1	.9	.0	.4	.0	.0	.0	.0	.7	6.7	11.4
SSW	.0	.1	.4	3.8	.2	1.5	.2	1.7	.0	.4	.0	.2	.0	.1	.9	7.7	12.5
SW	.1	.6	.5	4.5	.2	1.5	.2	2.1	.1	1.2	.0	.1	.0	.0	1.1	10.1	12.7
WSW	.1	.7	.4	3.5	.1	1.2	.2	1.5	.2	1.4	.0	.4	.0	.1	1.0	8.9	13.7
W	.0	.4	.3	2.8	.1	.7	.1	.7	.1	.6	.0	.1	.0	.0	.6	5.3	11.5
WNW	.0	.2	.2	2.0	.1	1.2	.1	.6	.0	.4	.0	.1	.0	.0	.5	4.6	11.9
NW	.0	.4	.3	2.6	.1	.8	.0	.4	.0	.2	.0	.0	.0	.0	.5	4.4	10.6
NNW	.1	.5	.3	3.1	.1	.8	.1	.7	.0	.4	.0	.1	.0	.0	.6	5.6	11.5
CALM	.1	1.3													.1	1.3	
TOTAL	.9	7.8	5.5	49.9	1.8	16.1	1.6	14.8	1.0	9.1	.2	1.9	.0	.4	11.0	100	11.8

MBS SAGINAW, MI

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 4 / DAY

STATION NUMBER: 14845

NO. OBS.: 313

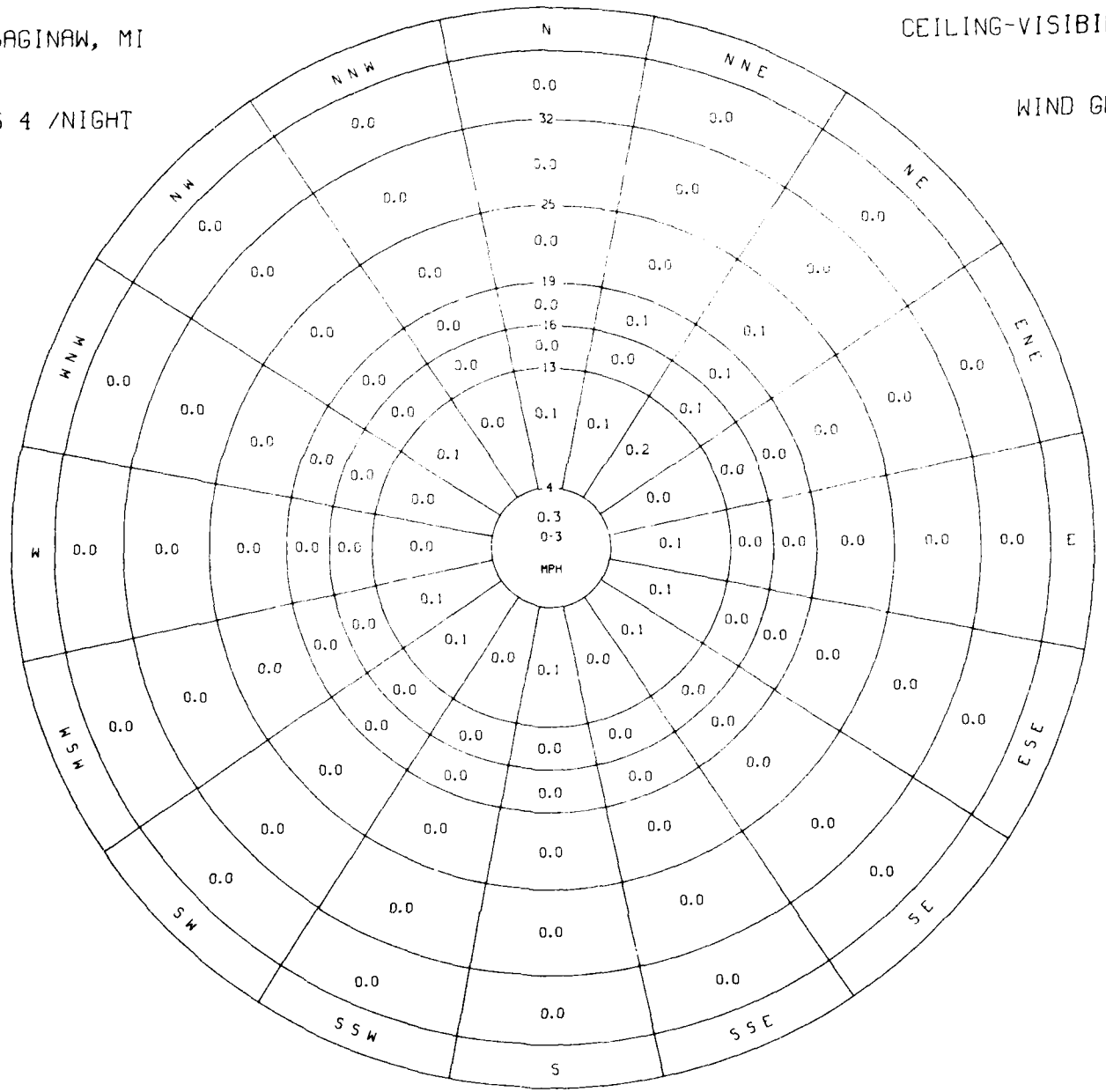
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.0	.1	6.1	.0	1.3	.0	1.6	.0	.6	.0	.0	.0	.0	.2	10.5	11.1
NNE	.0	.3	.1	5.1	.0	1.3	.0	1.0	.0	1.6	.0	.3	.0	.0	.2	9.6	13.1
NE	.0	.3	.1	5.8	.1	3.2	.0	1.9	.0	1.3	.0	.3	.0	.0	.2	12.8	13.0
ENE	.0	.0	.1	5.8	.0	1.9	.0	.3	.0	.6	.0	.0	.0	.0	.2	8.6	11.1
E	.0	.3	.1	4.5	.0	1.3	.0	.6	.0	.3	.0	.0	.0	.0	.1	7.0	9.9
ESE	.0	.6	.1	4.2	.0	.6	.0	.3	.0	.6	.0	.0	.0	.0	.1	6.4	8.9
SE	.0	.3	.0	1.9	.0	1.6	.0	.0	.0	.3	.0	.0	.0	.0	.1	4.2	11.1
SSE	.0	1.0	.0	2.6	.0	.6	.0	.3	.0	.3	.0	.3	.0	.3	.1	5.4	12.1
S	.0	1.0	.1	4.5	.0	1.6	.0	.6	.0	.0	.0	.0	.0	.0	.1	7.7	9.4
SSW	.0	.0	.1	4.8	.0	.6	.0	.6	.0	.0	.0	.3	.0	.0	.1	6.4	10.2
SW	.0	.0	.1	3.5	.0	.0	.0	.3	.0	.0	.0	.0	.0	.0	.1	3.8	9.7
WSW	.0	.3	.0	.6	.0	1.3	.0	.6	.0	.6	.0	.6	.0	.0	.1	4.2	15.8
W	.0	.3	.0	1.9	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.1	3.2	10.5
WNW	.0	.6	.0	1.3	.0	.0	.0	.3	.0	.0	.0	.3	.0	.0	.0	2.6	9.9
NW	.0	.6	.0	2.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	2.9	7.2
NNW	.0	.0	.0	1.9	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.1	2.9	11.2
CALM	.0	1.9													.0	1.9	
TOTAL	.2	8.6	1.0	56.5	.3	16.0	.2	9.3	.1	7.0	.0	2.2	.0	.3	1.8	100	10.9

MBS SAGINAW, MI

CLASS 4 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 4 / NIGHT

STATION NUMBER: 14845

NO. OBS.: 338

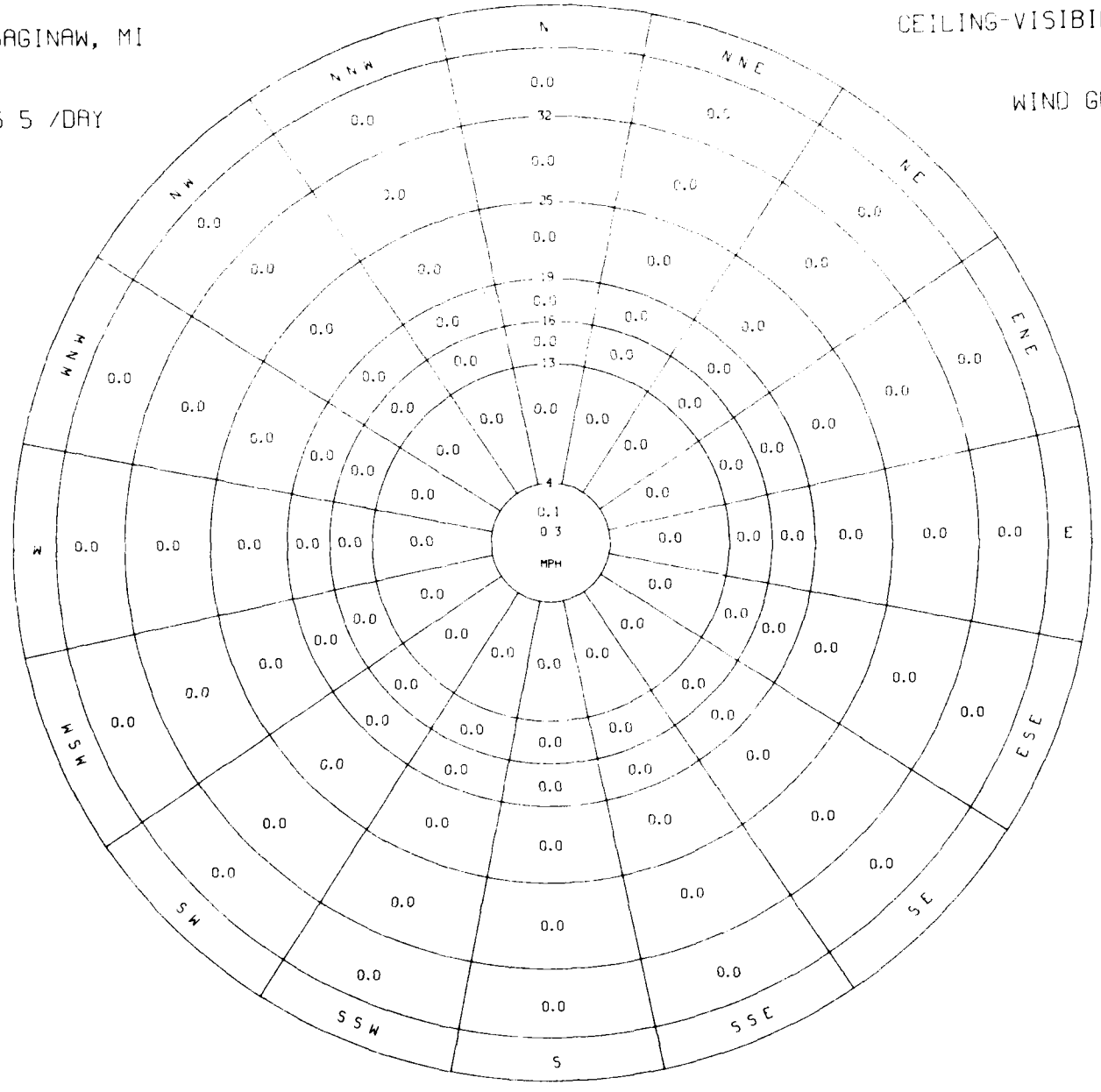
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.5	.1	3.6	.0	.9	.0	1.5	.0	.3	.0	.3	.0	.0	.2	8.0	10.4
NNE	.0	.9	.1	3.8	.0	1.2	.1	2.4	.0	.9	.0	.3	.0	.0	.2	9.5	12.6
NE	.0	.0	.2	8.0	.1	2.7	.1	2.4	.1	2.7	.0	.9	.0	.9	.4	17.5	14.8
ENE	.0	1.2	.0	2.1	.0	2.1	.0	1.2	.0	.3	.0	.6	.0	.0	.2	7.4	12.3
E	.0	.0	.1	4.7	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.1	5.3	9.3
ESE	.0	1.5	.1	4.7	.0	.3	.0	.6	.0	.3	.0	.0	.0	.0	.2	7.4	8.5
SE	.0	.3	.1	2.7	.0	.6	.0	.6	.0	.0	.0	.0	.0	.0	.1	4.1	10.0
SSE	.0	.0	.0	2.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.0	10.7
S	.0	.3	.1	3.8	.0	1.5	.0	.9	.0	.0	.0	.0	.0	.0	.1	6.5	10.8
SSW	.0	.3	.0	2.1	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	3.3	9.7
SW	.0	1.2	.1	3.3	.0	.6	.0	.9	.0	.0	.0	.3	.0	.0	.1	6.2	9.8
WSW	.0	.9	.1	2.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.7	8.8
W	.0	.9	.0	1.8	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.1	3.6	9.1
WNW	.0	.3	.0	2.1	.0	.3	.0	.3	.0	.3	.0	.0	.0	.0	.1	3.3	9.9
NW	.0	.3	.1	3.3	.0	.0	.0	.3	.0	.0	.0	.0	.0	.3	.1	4.1	9.8
NNW	.0	.6	.0	2.1	.0	.6	.0	.9	.0	.0	.0	.3	.0	.0	.1	4.4	11.5
CALM	.0	1.8													.0	1.8	
TOTAL	.3	11.8	1.2	52.7	.3	14.5	.3	12.1	.1	5.0	.1	2.7	.0	1.2	2.3	100	11.0

MBS SAGINAW, MI

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 5 / DAY

STATION NUMBER: 14845

NO. OBS.: 64

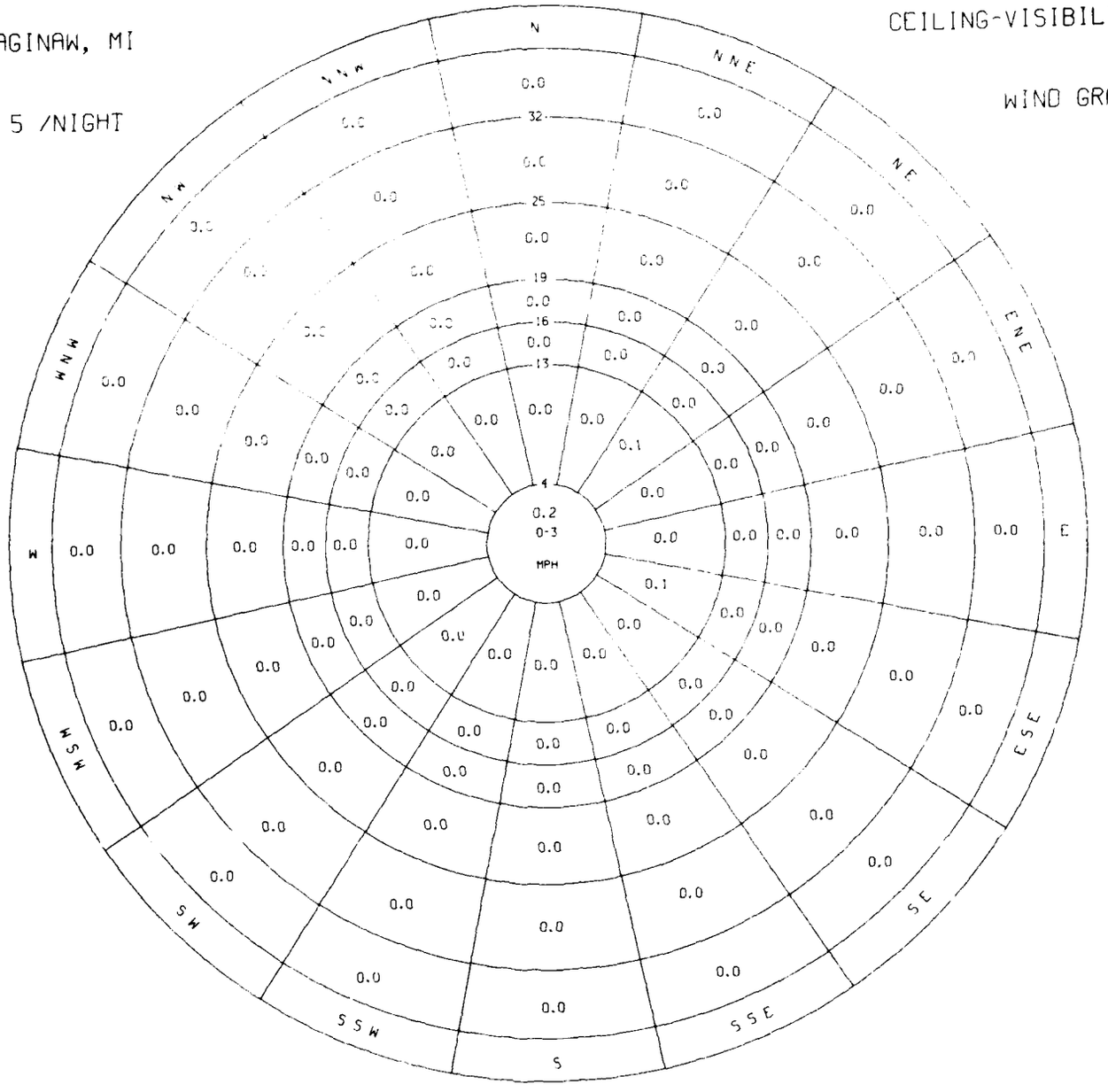
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.6	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.7	4.7
NNE	.0	.0	.0	3.1	.0	.0	.0	1.6	.0	.0	.0	.0	.0	.0	.0	4.7	10.7
NE	.0	.0	.0	7.8	.0	.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	10.9	12.3
ENE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
E	.0	3.1	.0	1.6	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	7.8	10.8
ESE	.0	1.6	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	5.8
SE	.0	.0	.0	7.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.8	8.2
SSE	.0	1.6	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	4.5
S	.0	1.6	.0	9.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.9	6.7
SSW	.0	.0	.0	6.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	7.0
SW	.0	1.6	.0	1.6	.0	1.6	.0	.0	.0	1.6	.0	.0	.0	.0	.0	6.3	12.7
WSW	.0	.0	.0	4.7	.0	1.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.3	9.5
W	.0	.0	.0	1.6	.0	.0	.0	.0	.0	1.6	.0	.0	.0	.0	.0	3.1	13.0
WNW	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	1.6	.0	1.6	.0	.0	.0	6.3	17.2
NW	.0	1.6	.0	1.6	.0	[illegible]	.0	.0	.0	1.6	.0	.0	.0	.0	.0	4.7	12.3
NNW	.0	.0	.0	1.6	.0	1	.0	.0	.0	1.6	.0	.0	.0	.0	.0	4.7	14.7
CALM	.0	4.7													.0	4.7	
TOTAL	.1	17.2	.2	59.4	.0	7.8	.0	1.6	.0	12.5	.0	1.6	.0	.0	.4	100	9.5

MBS SAGINAW, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS F / NIGHT

STATION NUMBER: 14845

NO. OBS.: 106

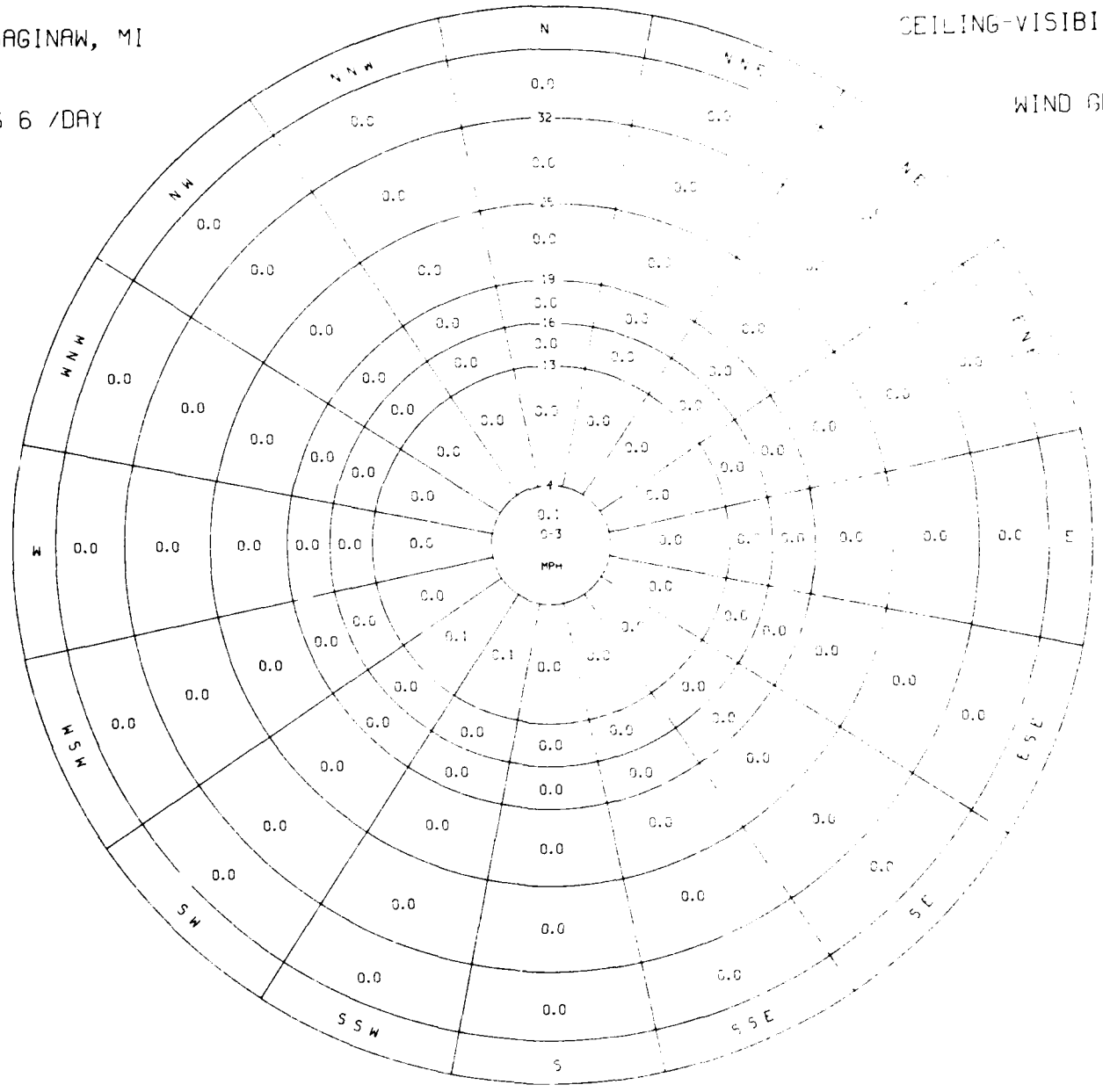
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.9	.0	6.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.5	7.7
NNE	.0	1.9	.0	.9	.0	.0	.0	1.9	.0	.0	.0	.9	.0	.0	.0	5.7	12.2
NE	.0	1.9	.1	8.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	10.4	8.6
ENE	.0	2.8	.0	3.8	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.1	7.5	7.9
E	.0	.9	.0	3.8	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	5.7	9.7
ESE	.0	1.9	.1	9.4	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.1	12.3	7.7
SE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	10.0
SSE	.0	.0	.0	2.8	.0	.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	4.7	11.4
S	.0	.9	.0	3.8	.0	1.9	.0	.0	.0	.9	.0	.0	.0	.0	.1	7.5	10.0
SSW	.0	2.8	.0	1.9	.0	1.9	.0	.0	.0	.9	.0	.0	.0	.0	.1	7.5	8.5
SW	.0	1.9	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.7
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
W	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	7.0
WNW	.0	.9	.0	4.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.3
NW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.0	.9	9.0
NNW	.0	.9	.0	1.9	.0	.9	.0	.0	.0	.9	.0	.0	.0	.0	.0	4.7	9.8
CALM	.1	8.5													.1	8.5	
TOTAL	.2	27.4	.4	57.5	.0	4.7	.0	6.6	.0	2.8	.0	.9	.0	.0	.7	100	7.8

MBS SAGINAW, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 6 / CA-

STATION NUMBER: 14845

NO. OBS.: 81

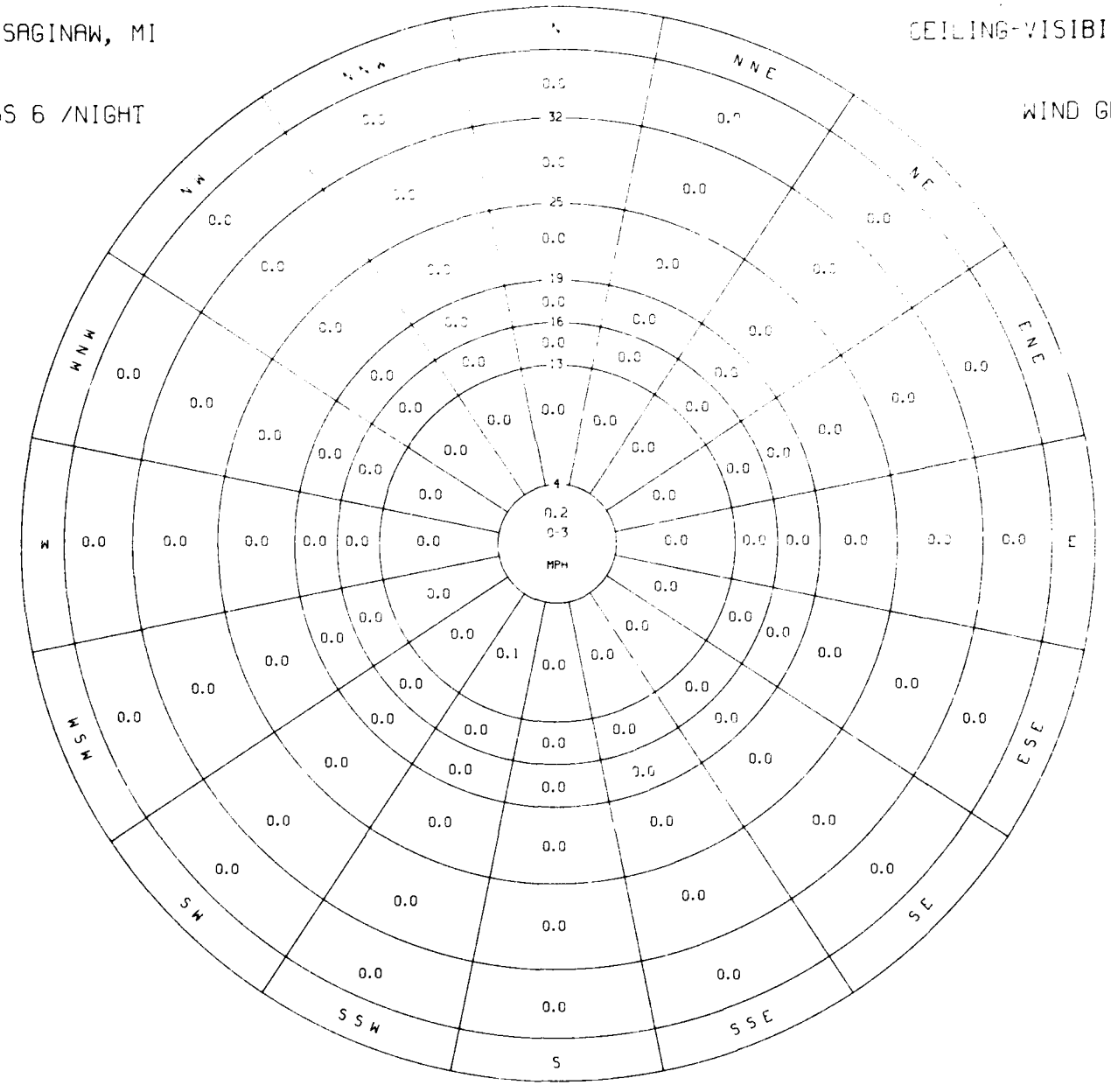
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.2	.0	7.4	.0	.0	.0	.0	.0	.0					.0	8.6	6.7
NNE	.0	.0	.0	3.7	.0	1.2	.0	.0	.0	.0					.0	4.9	8.2
NE	.0	1.2	.0	3.7	.0	.0	.0	.0	.0	.0					.0	4.9	6.5
ENE	.0	1.2	.0	3.7	.0	.0	.0	.0	.0	.0					.0	4.9	7.3
E	.0	1.2	.0	4.9	.0	1.2	.0	.0	.0	.0					.0	7.4	7.8
ESE	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0					.0	1.2	4.0
SE	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0					.0	3.7	6.5
SSE	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0					.0	.0	.0
S	.0	.0	.0	7.4	.0	1.2	.0	.0	.0	.0					.0	8.6	7.5
SSW	.0	3.7	.1	13.6	.0	.0	.0	.0	.0	.0					.1	17.3	8.4
SW	.0	.0	.1	11.1	.0	2.5	.0	.0	.0	.0					.1	13.6	8.2
WSW	.0	1.2	.0	2.5	.0	1.2	.0	.0	.0	.0					.0	4.9	7.5
W	.0	.0	.0	2.5			.0	.0	.0	.0					.0	2.5	8.5
WNW	.0	.0	.0	3.7			.0	.0	.0	.0					.0	3.7	7.3
NW	.0	1.2	.0	1.2			.0	.0	.0	.0					.0	2.5	4.8
NNW	.0	1.2	.0	1.2			.0	.0	.0	.0					.0	2.5	4.2
CALM	.0	7.4													.0	7.4	
TOTAL	.1	24.0	.1	71.6	.0	6.2	.0	.0	.0	.0					.2	100.0	7.2

MBS SAGINAW, MI

CEILING-VISIBILITY

CLASS 6 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: MBS SAGINAW, MI

PERIOD: 1949-1978

CLASS 6 / NIGHT

STATION NUMBER: 14845

NO. OBS.: 108

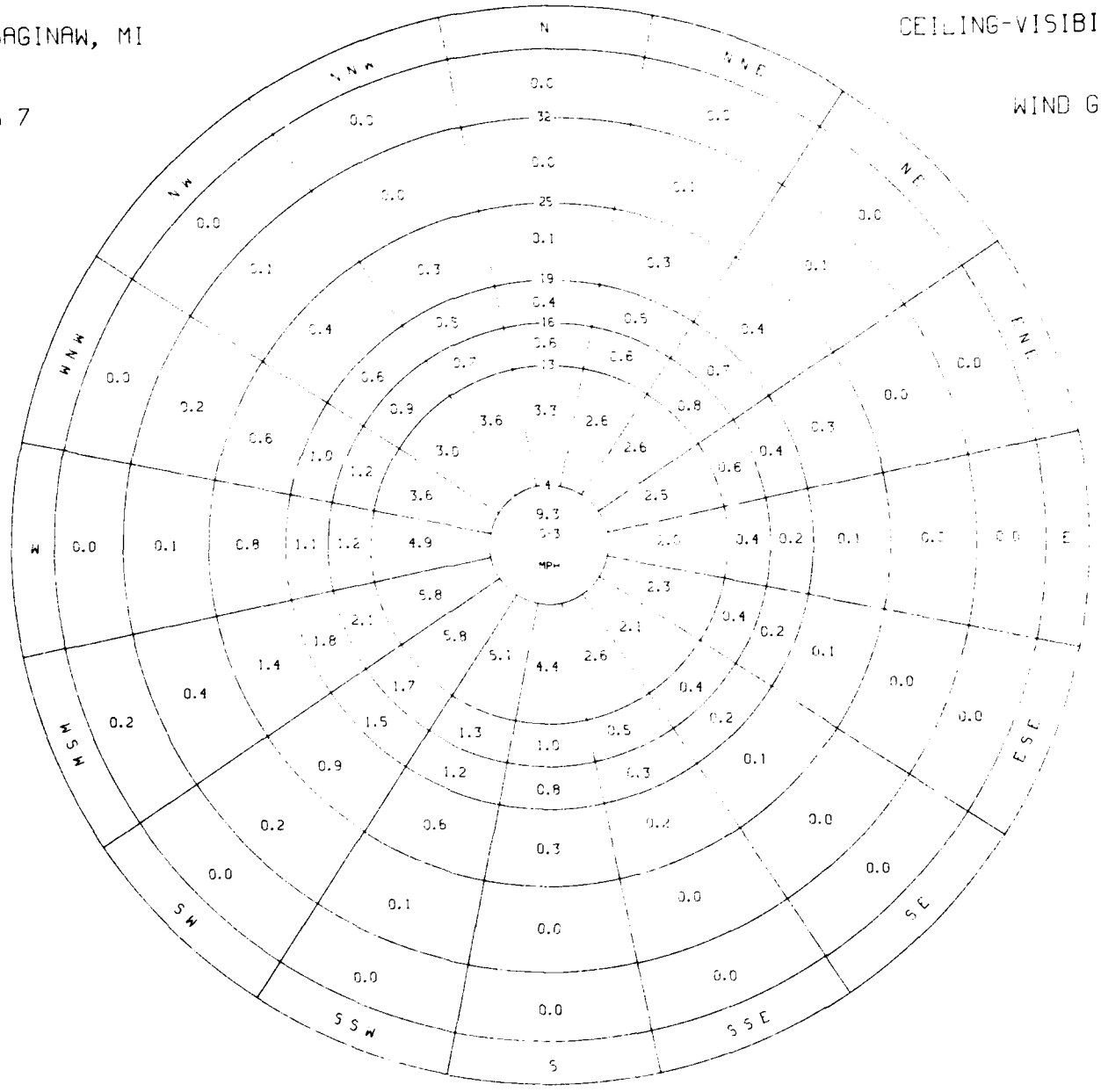
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	4.6	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	3.9
NNE	.0	.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	4.7
NE	.0	.9	.0	3.7	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	8.7
ENE	.0	.9	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	6.3
E	.0	.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.8	4.3
ESE	.0	1.9	.0	5.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.4	5.0
SE	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	9.0
SSE	.0	1.9	.0	1.9	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	7.6
S	.0	1.9	.0	4.6	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.1	7.4	6.7
SSW	.0	.9	.1	10.2	.0	.9	.0	.9	.0	.0	.0	.0	.0	.0	.1	13.0	7.7
SW	.0	1.9	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.7
WSW	.0	1.9	.0	6.5	.0	.0	.0	.0	.0	.9	.0	.0	.0	.0	.1	9.3	8.1
W	.0	.0	.0	3.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.7	6.5
WNW	.0	.0	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.6	6.4
NW	.0	.0	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	6.0
NNW	.0	.9	.0	4.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	6.8
CALM	.1	12.0													.1	12.0	
TOTAL	.2	31.5	.5	62.0	.0	4.6	.0	.9	.0	.9	.0	.0	.0	.0	.7	100	5.8

MBS SAGINAW, MI

CLASS 7

CEILING-VISIBILITY

WIND GRAPH

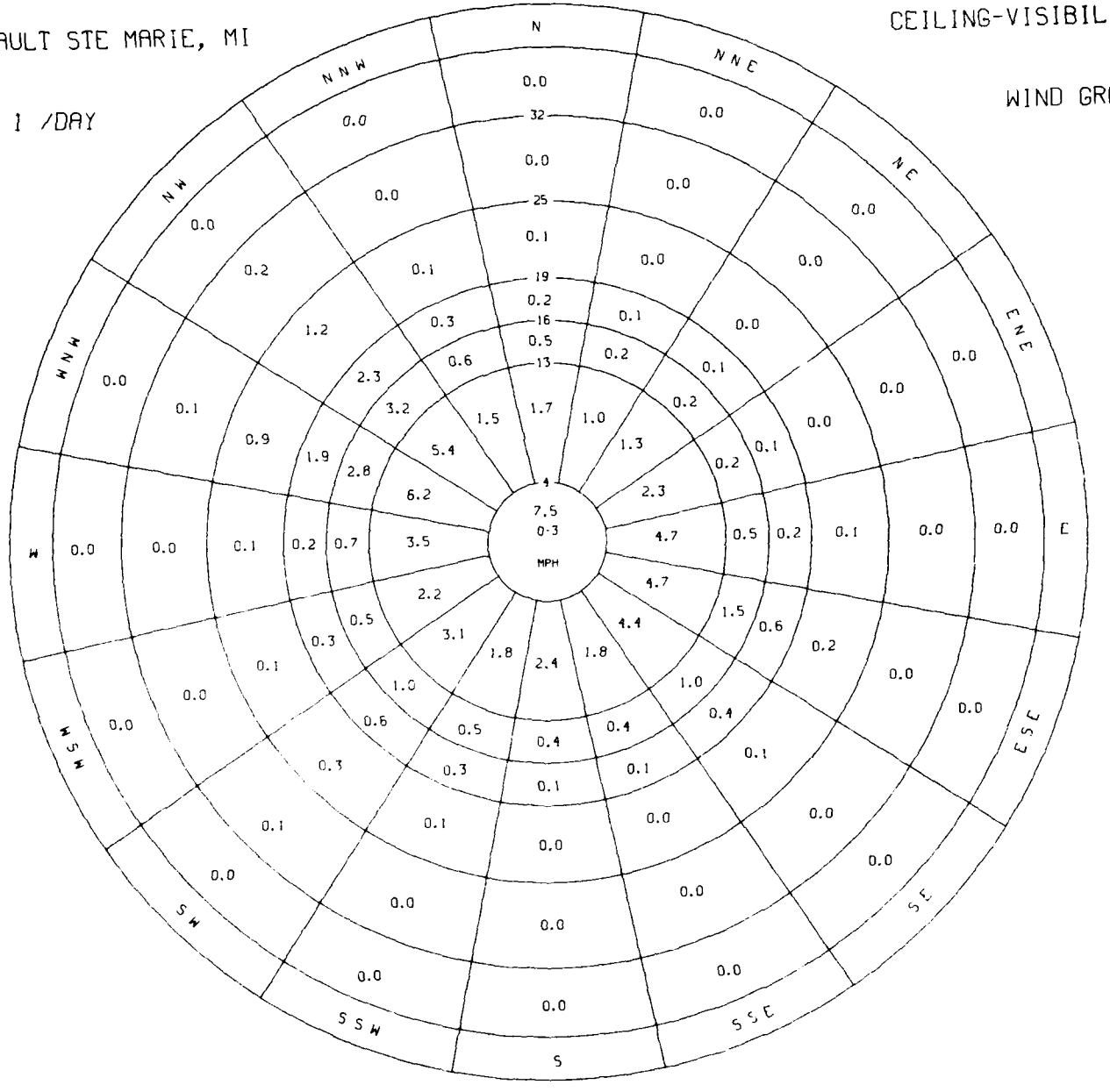


SSM SAULT STE MARIE, MI

CLASS 1 /DAY

CEILING-VISIBILITY

WIND GRAPH



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CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 1 / DAY

STATION NUMBER: 14847

NO. OBS.: 39090

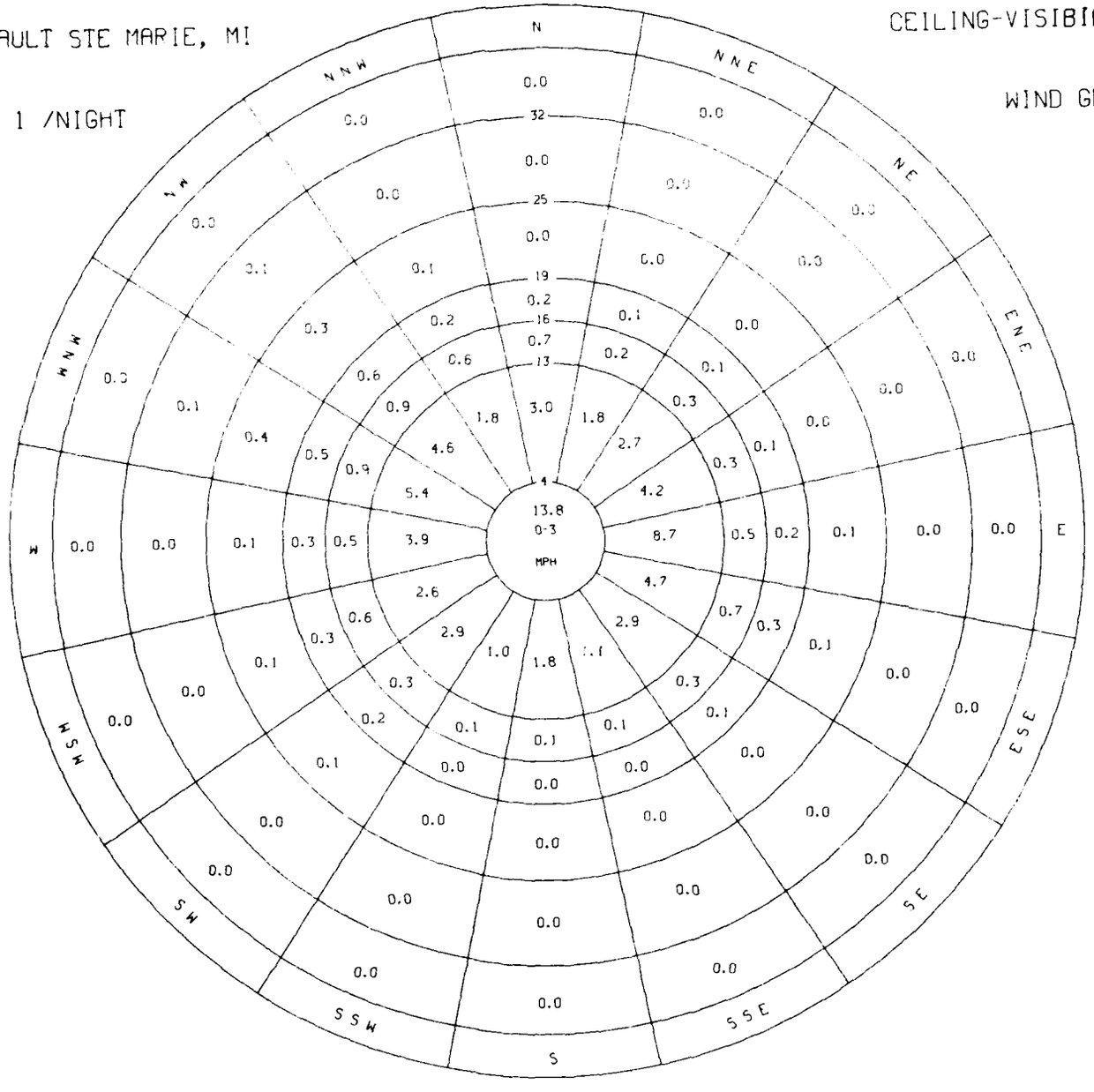
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	1.7	2.1	.5	.6	.2	.2	.1	.1	.0	.0	.0	.0	2.7	3.3	9.9
NNE	.1	.1	1.0	1.2	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	1.4	1.8	9.6
NE	.3	.4	1.3	1.6	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.9	2.4	8.1
ENE	.3	.4	2.3	2.8	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.9	3.6	7.8
E	.9	1.1	4.7	5.8	.5	.6	.2	.3	.1	.1	.0	.0	.0	.0	6.4	7.8	7.9
ESE	.4	.6	4.7	5.8	1.5	1.8	.6	.8	.2	.3	.0	.0	.0	.0	7.4	9.2	10.3
SE	.6	.8	4.4	5.4	1.0	1.2	.4	.5	.1	.1	.0	.0	.0	.0	6.5	8.1	9.5
SSE	.2	.3	1.8	2.2	.4	.5	.1	.2	.0	.0	.0	.0	.0	.0	2.6	3.2	9.1
S	.5	.6	2.4	2.9	.4	.5	.1	.1	.0	.0	.0	.0	.0	.0	3.4	4.1	8.2
SSW	.2	.2	1.8	2.2	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	2.8	3.5	10.4
SW	.4	.5	3.1	3.9	1.0	1.2	.6	.7	.3	.3	.1	.1	.0	.0	5.4	6.7	10.8
WSW	.2	.3	2.2	2.7	.5	.7	.3	.3	.1	.1	.0	.0	.0	.0	3.3	4.1	10.2
W	.5	.6	3.5	4.3	.7	.8	.2	.3	.1	.1	.0	.0	.0	.0	5.1	6.2	9.1
WNW	.3	.4	6.2	7.6	2.8	3.5	1.9	2.4	.9	1.1	.1	.2	.0	.0	12.2	15.1	12.3
NW	.4	.5	5.4	6.7	3.2	3.9	2.3	2.9	1.2	1.5	.2	.2	.0	.0	12.7	15.6	12.9
NNW	.1	.1	1.5	1.9	.6	.7	.3	.4	.1	.1	.0	.0	.0	.0	2.6	3.3	11.1
CALM	1.7	2.1													1.7	2.1	
TOTAL	7.5	9.2	48.0	59.2	14.1	17.4	7.8	9.6	3.3	4.0	.5	.6	.0	.1	81.1	100	10.2

SSM SAULT STE MARIE, MI

CLASS 1 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 1 / NIGHT

STATION NUMBER: 14847

NO. OBS.: 33412

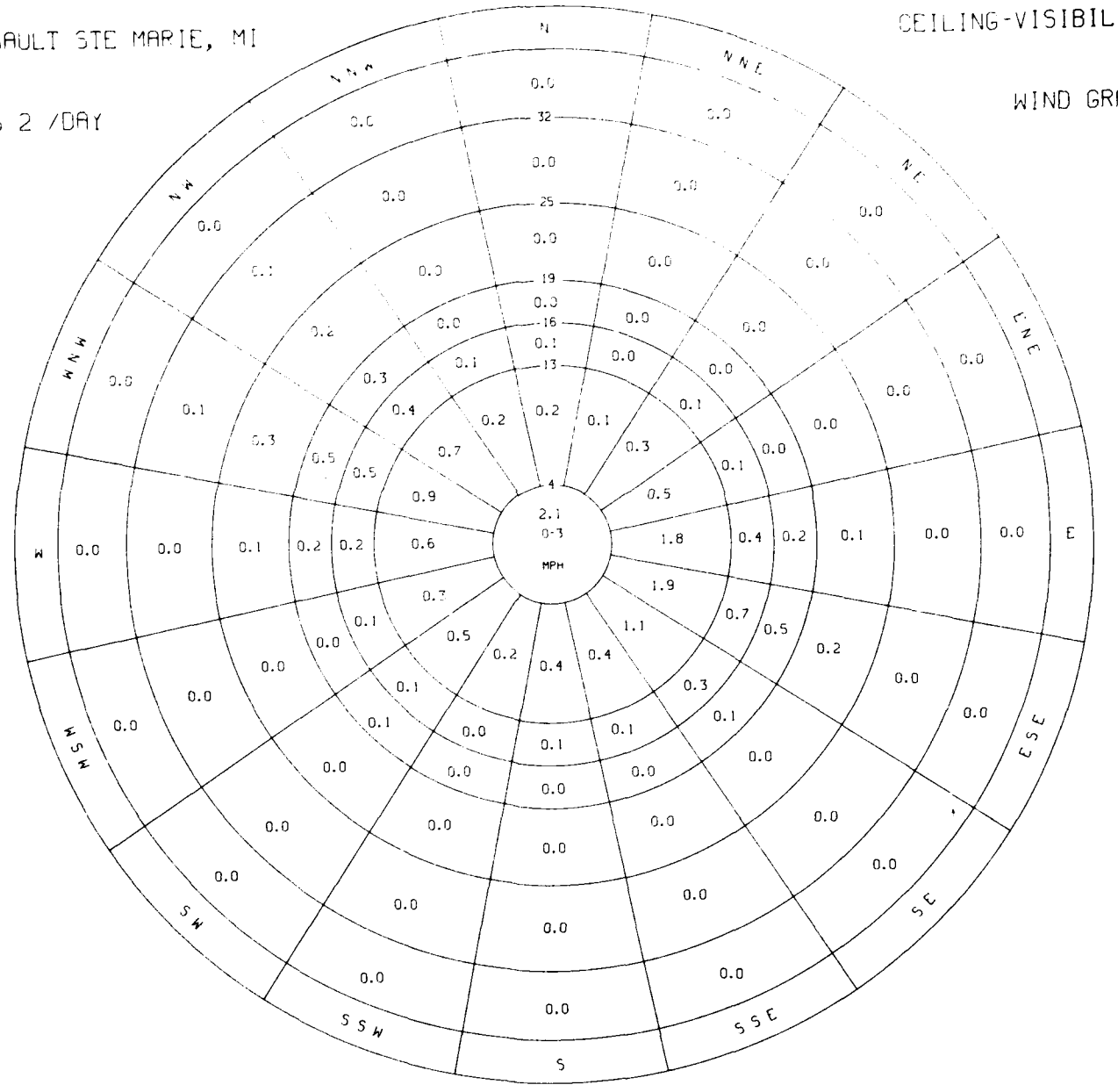
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.5	.6	3.0	3.9	.7	.8	.2	.3	.0	.0	.0	.0	.0	.0	4.5	5.7	9.0
NNE	.2	.2	1.8	2.3	.2	.3	.1	.1	.0	.0	.0	.0	.0	.0	2.4	3.0	8.6
NE	.7	.9	2.7	3.4	.3	.3	.1	.1	.0	.0	.0	.0	.0	.0	3.8	4.8	7.3
ENE	.7	.8	4.2	5.3	.3	.3	.1	.1	.0	.1	.0	.0	.0	.0	5.2	6.6	7.2
E	1.5	1.9	8.7	11.0	.5	.7	.2	.3	.1	.1	.0	.0	.0	.0	11.0	14.0	7.2
ESE	.6	.8	4.7	6.0	.7	.9	.3	.4	.1	.1	.0	.0	.0	.0	6.4	8.1	8.5
SE	.8	1.0	2.9	3.7	.3	.4	.1	.1	.0	.0	.0	.0	.0	.0	4.1	5.2	7.4
SSE	.3	.4	1.1	1.4	.1	.1	.0	.0	.0	.0	.0	.0	.0	.0	1.5	2.0	7.0
S	.7	.8	1.8	2.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	2.6	3.4	6.3
SSW	.3	.4	1.0	1.3	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.5	1.9	7.1
SW	.8	1.0	2.9	3.7	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	4.2	5.4	7.9
WSW	.4	.5	2.6	3.3	.6	.8	.3	.4	.1	.1	.0	.0	.0	.0	4.0	5.1	9.4
W	1.0	1.3	3.9	5.0	.5	.6	.3	.3	.1	.1	.0	.0	.0	.0	5.8	7.4	8.1
WNW	.6	.7	5.4	6.8	.9	1.1	.5	.7	.4	.5	.1	.1	.0	.0	7.8	9.9	9.6
NW	.7	.9	4.6	5.8	.9	1.2	.6	.8	.3	.3	.1	.1	.0	.0	7.2	9.1	9.8
NNW	.2	.2	1.8	2.3	.6	.7	.2	.3	.1	.1	.0	.0	.0	.0	2.9	3.6	10.2
CALM	3.9	4.9													3.9	4.9	
TOTAL	13.8	17.4	53.2	67.5	6.9	8.8	3.4	4.3	1.3	1.7	.2	.3	.1	.1	78.8	100	7.9

SSM SAULT STE MARIE, MI

CLASS 2 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 2 / DAY

STATION NUMBER: 14847

NO. OBS.: 9103

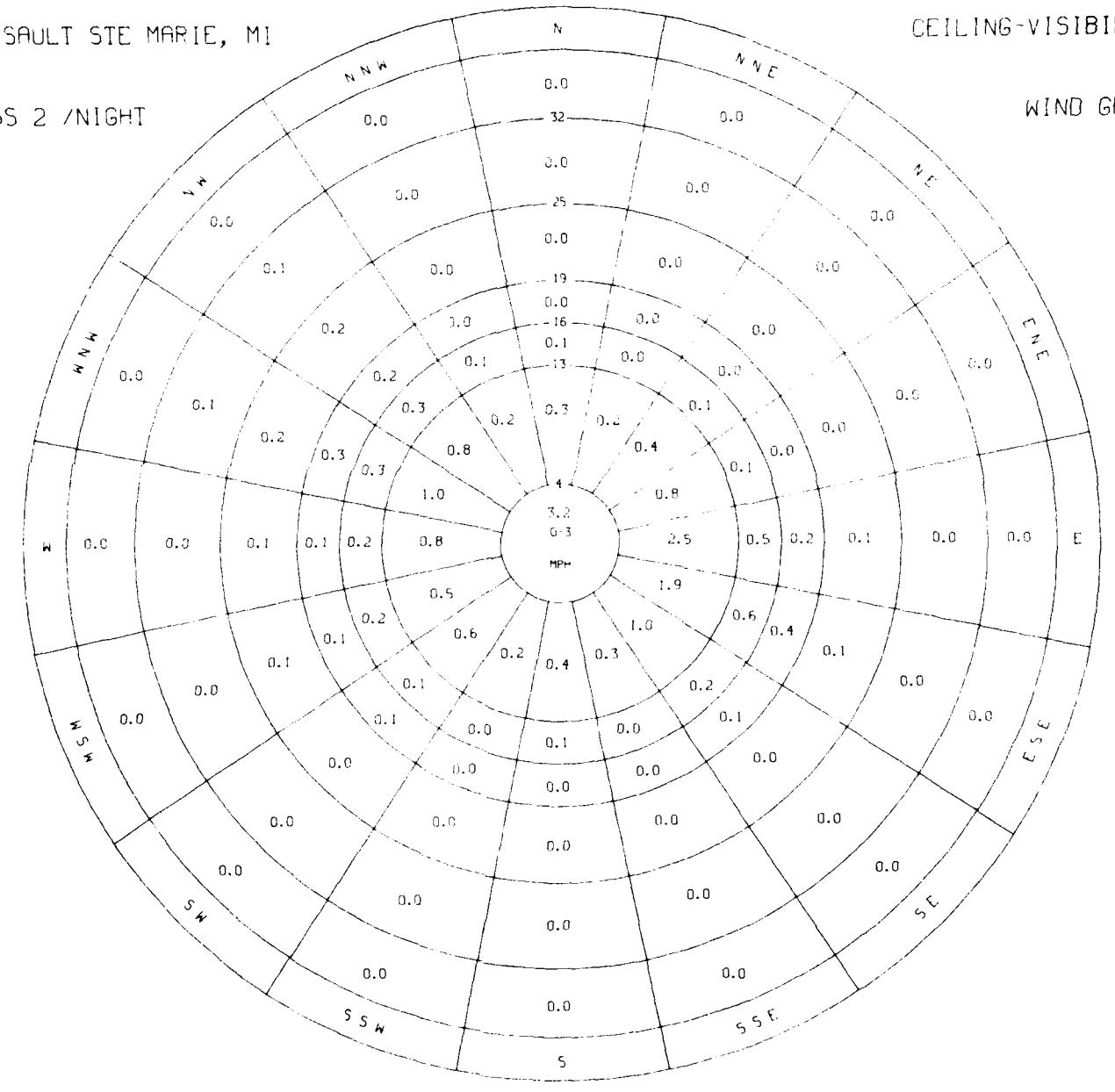
DIP	SPEED GROUPS (MPH)														TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+				
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.2	1.1	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4	1.9	10.1
NNE	.0	.2	.1	.6	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.2	1.1	9.2
NE	.1	.6	.3	1.5	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.5	2.6	8.2
ENE	.1	.6	.5	2.5	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.7	3.9	8.5
E	.4	1.9	1.8	9.7	.4	2.0	.2	1.1	.1	.5	.0	.0	.0	.0	2.9	15.1	9.2
ESE	.2	.9	1.9	10.3	.7	3.4	.5	2.4	.2	.8	.0	.1	.0	.0	3.4	18.0	11.1
SE	.2	.8	1.1	6.1	.3	1.4	.1	.6	.0	.3	.0	.0	.0	.0	1.7	9.3	9.7
SSE	.1	.4	.4	2.0	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.6	3.0	8.9
S	.1	.4	.4	2.2	.1	.4	.0	.1	.0	.1	.0	.0	.0	.0	.6	3.2	8.5
SSW	.0	.3	.2	1.2	.0	.2	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.0	9.4
SW	.1	.5	.5	2.5	.1	.4	.1	.3	.0	.1	.0	.0	.0	.0	.7	3.9	9.3
WSW	.0	.2	.3	1.8	.1	.6	.0	.2	.0	.1	.0	.1	.0	.0	.6	3.0	10.6
W	.1	.6	.6	3.3	.2	1.0	.2	.9	.1	.5	.0	.1	.0	.0	1.2	6.3	11.5
WNW	.1	.3	.9	4.9	.5	2.8	.5	2.5	.3	1.6	.1	.7	.0	.1	2.4	12.9	14.2
NW	.1	.4	.7	3.7	.4	2.0	.3	1.4	.2	1.3	.1	.4	.0	.0	1.7	9.2	13.5
NNW	.0	.2	.2	.9	.1	.4	.0	.3	.0	.2	.0	.0	.0	.0	.3	1.8	11.7
CALM	.5	2.9													.5	2.9	
TOTAL	2.1	11.3	10.2	54.2	3.1	16.3	2.0	10.8	1.1	5.8	.3	1.5	.0	.2	18.9	100	10.6

SSM SAULT STE MARIE, MI

CEILING-VISIBILITY

CLASS 2 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 3 - NIGHT

STATION NUMBER: 14847

NO. OBS.: 8970

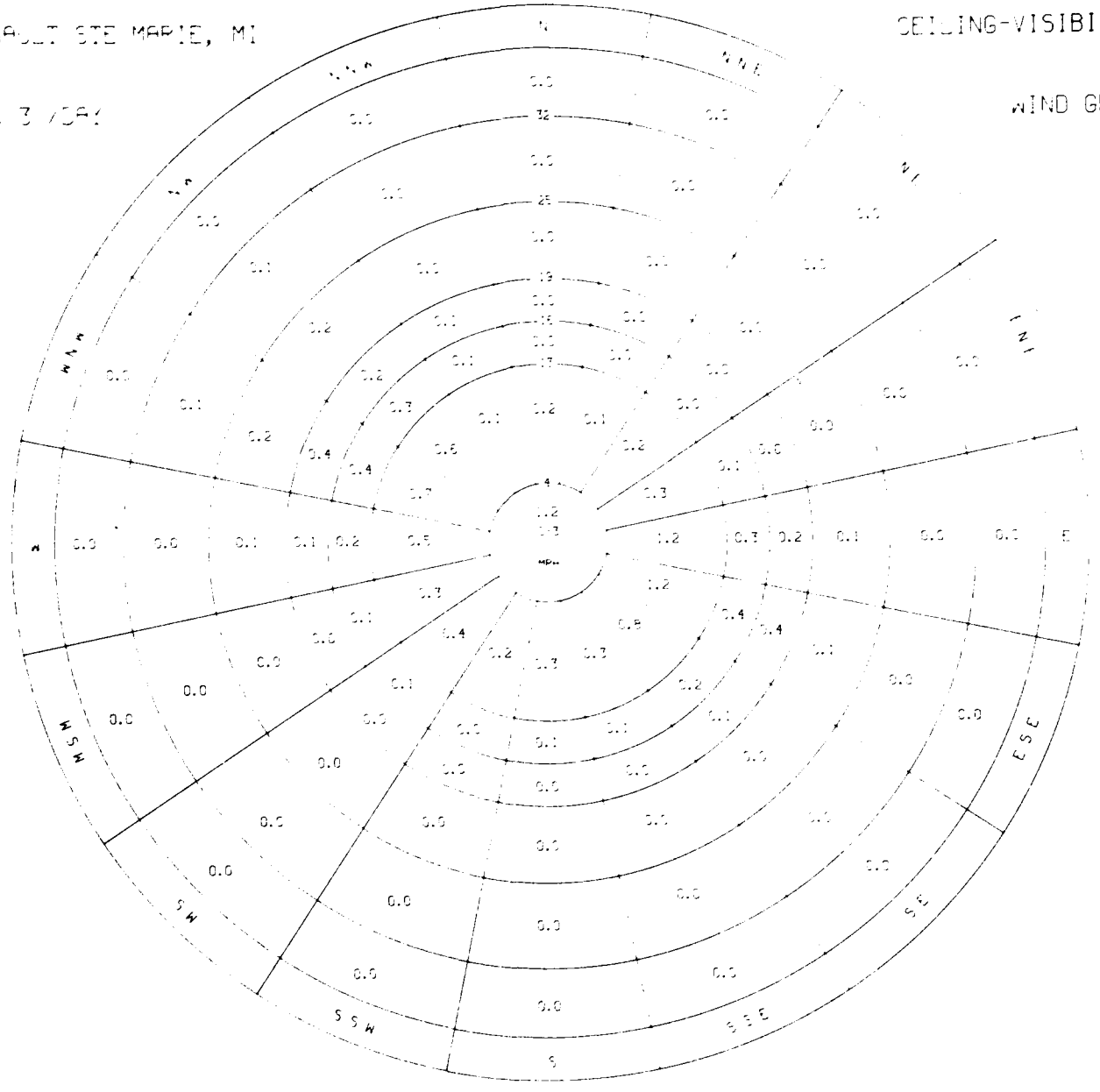
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.3	1.6	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.6	2.7	8.8
NNE	.0	.2	.2	1.0	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.3	1.5	8.6
NE	.2	.9	.4	2.1	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.7	3.5	7.3
ENE	.1	.6	.8	3.7	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	1.0	4.9	7.6
E	.4	2.1	2.5	11.8	.5	2.3	.2	1.2	.1	.4	.0	.1	.0	.0	3.8	17.7	8.9
ESE	.2	.8	1.9	9.1	.6	2.9	.4	1.9	.1	.6	.0	.1	.0	.0	3.2	15.3	10.7
SE	.2	1.0	1.0	4.6	.2	1.0	.1	.4	.0	.2	.0	.0	.0	.0	1.5	7.3	9.2
SSE	.1	.4	.3	1.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.5	2.4	8.7
S	.2	.7	.4	1.9	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.7	3.2	8.1
SSW	.1	.2	.2	1.2	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.4	1.7	8.3
SW	.1	.7	.6	2.7	.1	.5	.1	.3	.0	.1	.0	.0	.0	.0	.9	4.3	9.0
WSW	.1	.3	.5	2.5	.2	.7	.1	.4	.1	.3	.0	.1	.0	.0	.9	4.3	10.8
W	.2	1.0	.8	3.9	.2	.9	.1	.6	.1	.5	.0	.2	.0	.1	1.5	7.0	10.5
WNW	.1	.4	1.0	4.8	.3	1.6	.3	1.5	.2	1.1	.1	.5	.0	.2	2.1	10.1	13.2
NW	.1	.7	.8	3.6	.3	1.4	.2	1.0	.2	.8	.1	.3	.0	.1	1.7	7.9	12.5
NNW	.0	.2	.2	.9	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.4	1.7	10.4
CALM	.9	4.4													.9	4.4	
TOTAL	3.2	15.1	12.3	56.8	2.9	13.6	1.8	8.4	.8	4.4	.3	1.4	.1	.4	21.2	100	9.6

SSM SAULT STE MARIE, MI

CEILING-VISIBILITY

CLASS 3 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 3 / DAY

STATION NUMBER: 14847

NO. OBS.: 6596

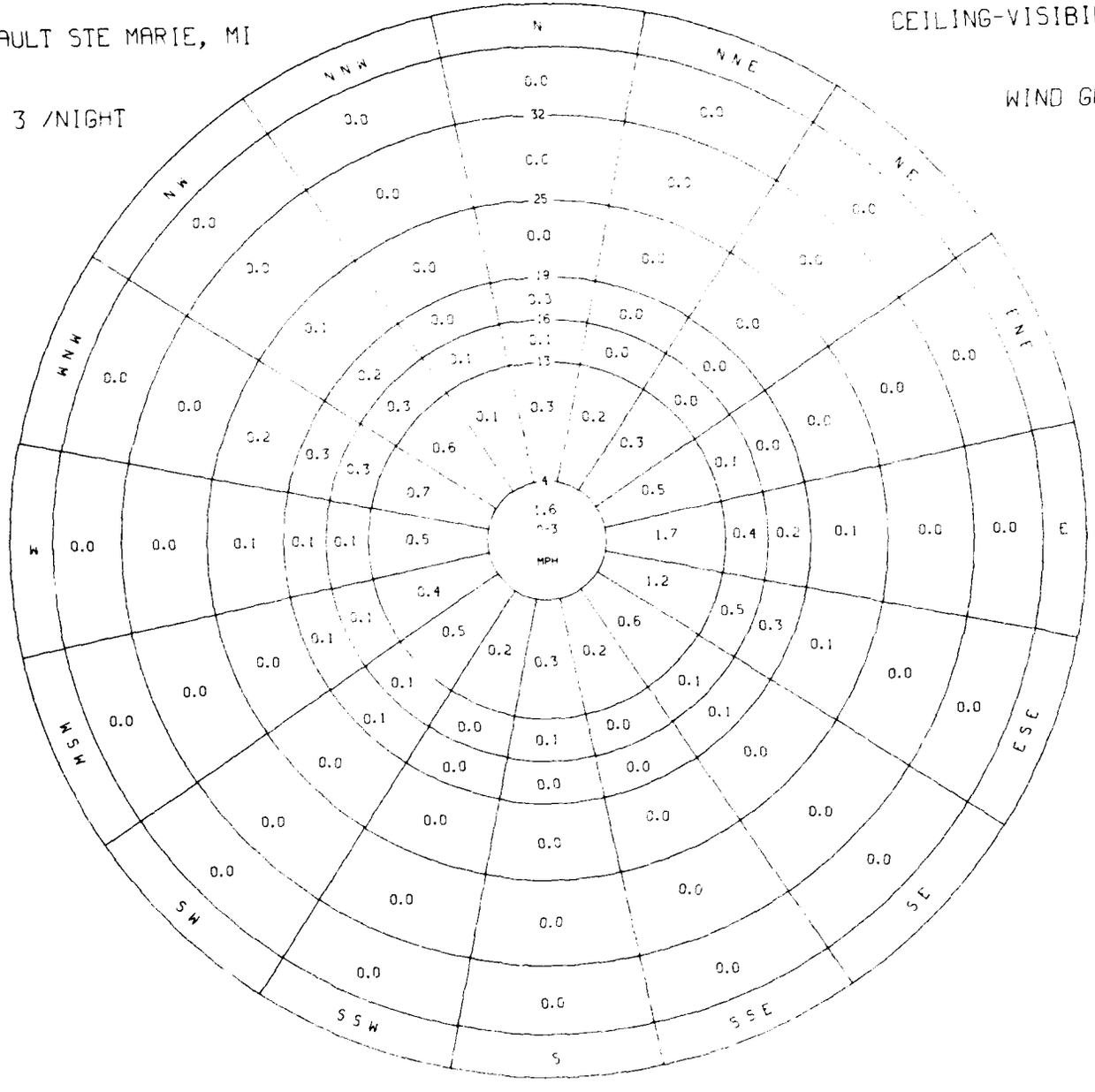
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.2	1.3	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.3	2.1	10.0
NNE	.0	.1	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.2	1.2	9.7
NE	.1	.5	.2	1.5	.0	.3	.0	.2	.0	.0	.0	.0	.0	.0	.3	2.5	8.3
ENE	.1	.4	.3	2.3	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.5	9.0
E	.2	1.1	1.2	8.8	.3	2.1	.2	1.2	.1	.5	.0	.0	.0	.0	1.9	13.6	9.9
ESE	.1	.6	1.2	8.9	.4	3.2	.4	2.6	.1	.9	.0	.1	.0	.0	2.2	16.2	11.7
SE	.1	.7	.8	5.7	.2	1.4	.1	.7	.0	.3	.0	.0	.0	.0	1.2	8.9	10.0
SSE	.0	.3	.3	2.2	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.4	3.2	9.1
S	.1	.4	.3	2.4	.1	.5	.0	.1	.0	.1	.0	.0	.0	.0	.5	3.5	8.7
SSW	.0	.2	.2	1.4	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.3	2.2	9.9
SW	.1	.4	.4	3.0	.1	.5	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.5	9.6
WSW	.0	.2	.3	1.9	.1	.7	.0	.3	.0	.1	.0	.1	.0	.0	.5	3.3	10.9
W	.1	.6	.5	3.4	.2	1.1	.1	.9	.1	.4	.0	.1	.0	.0	.9	6.6	11.5
WNW	.0	.3	.7	5.0	.4	3.3	.4	2.9	.2	1.7	.1	.6	.0	.1	1.9	13.8	14.2
NW	.1	.4	.6	4.3	.3	2.5	.2	1.7	.2	1.3	.1	.4	.0	.0	1.5	10.7	13.5
NNW	.0	.2	.1	1.0	.1	.4	.0	.3	.0	.2	.0	.0	.0	.0	.3	2.0	11.4
CPI 1	.3	2.0													.3	2.0	
TOTAL	1.2	8.8	7.4	53.8	2.4	17.8	1.7	12.1	.8	6.0	.2	1.3	.0	.2	13.7	100	11.0

SSM SAULT STE MARIE, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 3 / NIGHT

STATION NUMBER: 14847

NO. OBS.: 6075

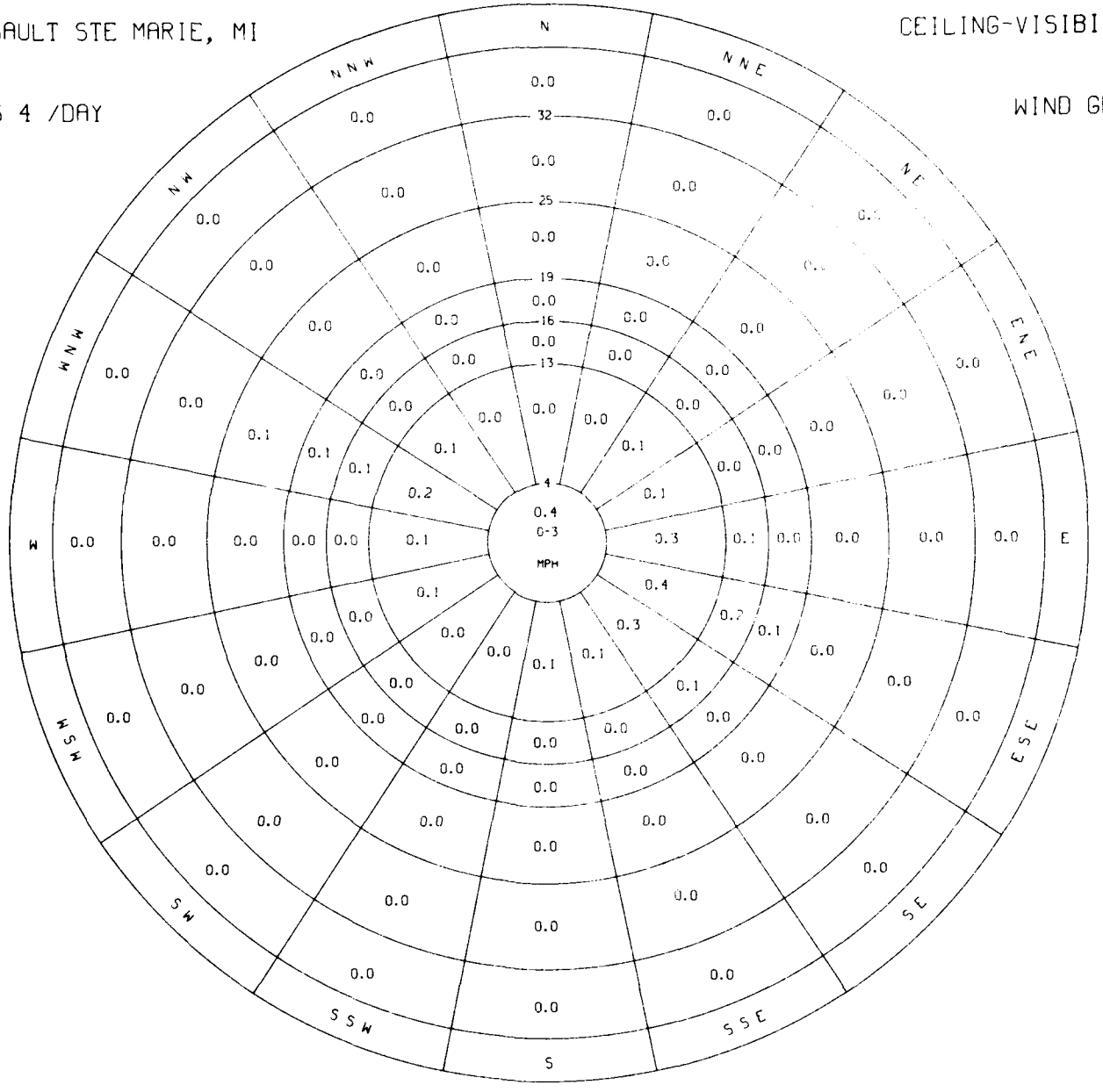
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.3	2.0	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.5	3.2	9.2
NNE	.0	.2	.2	1.2	.0	.2	.0	.0	.0	.1	.0	.0	.0	.0	.3	1.8	8.7
NE	.1	.7	.3	2.3	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.5	3.4	7.6
ENE	.1	.4	.5	3.4	.1	.5	.0	.1	.0	.0	.0	.0	.0	.0	.6	4.4	8.3
E	.2	1.4	1.7	11.7	.4	2.5	.2	1.3	.1	.4	.0	.0	.0	.0	2.5	17.3	9.4
ESE	.1	.6	1.2	8.2	.5	3.2	.3	2.0	.1	.7	.0	.1	.0	.0	2.1	14.8	11.3
SE	.1	.9	.6	4.2	.1	1.0	.1	.5	.0	.2	.0	.0	.0	.0	1.0	6.8	9.6
SSE	.0	.3	.2	1.7	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.4	2.5	9.0
S	.1	.5	.3	2.2	.1	.5	.0	.2	.0	.1	.0	.0	.0	.0	.5	3.4	8.9
SSW	.0	.3	.2	1.3	.0	.2	.0	.1	.0	.1	.0	.0	.0	.0	.3	2.0	8.6
SW	.1	.6	.5	3.2	.1	.6	.1	.4	.0	.1	.0	.0	.0	.0	.7	5.0	9.4
WSW	.0	.3	.4	3.0	.1	.9	.1	.4	.0	.3	.0	.0	.0	.0	.7	4.9	10.8
W	.1	.7	.5	3.8	.1	.9	.1	.6	.1	.5	.0	.1	.0	.0	1.0	6.6	10.7
WNW	.0	.3	.7	4.6	.3	1.9	.3	1.8	.2	1.1	.0	.3	.0	.1	1.5	10.2	13.3
NW	.1	.6	.6	3.9	.3	1.7	.2	1.2	.1	.8	.0	.3	.0	.1	1.2	8.7	12.6
NNW	.0	.1	.1	1.0	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.3	1.8	10.6
CALM	.5	3.2													.5	3.2	
TOTAL	1.6	11.5	8.3	57.6	2.2	15.7	1.3	9.3	.7	4.7	.1	1.0	.0	.3	14.3	100	10.1

SSM SAULT STE MARIE, MI

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 4 / DAY

STATION NUMBER: 14847

NO. OBS.: 1563

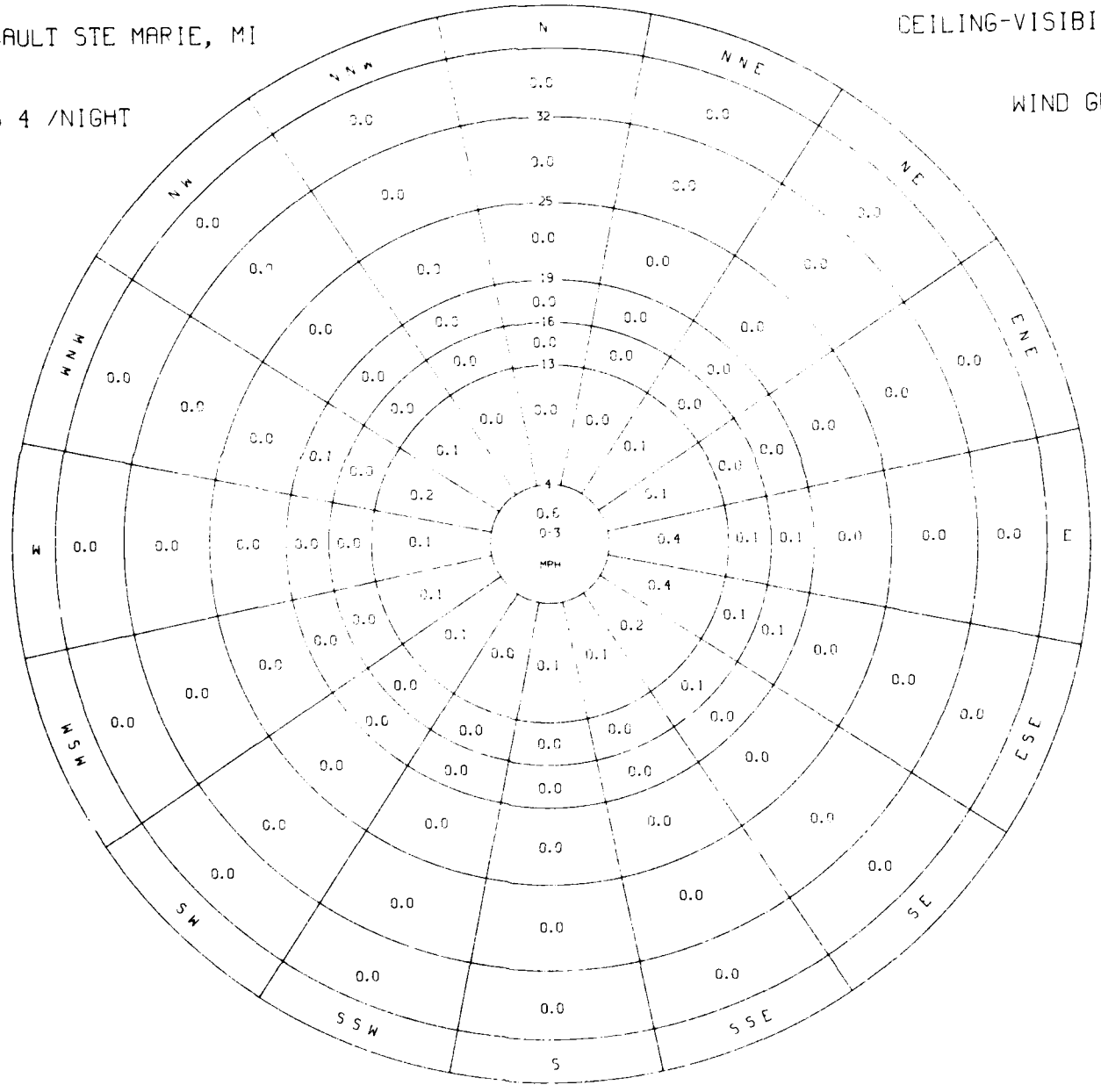
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.0	1.1	.0	.2	.0	.3	.0	.1	.0	.0	.0	.0	.1	1.9	10.5
NNE	.0	.1	.0	.6	.0	.1	.0	.1	.0	.1	.0	.0	.0	.0	.0	1.0	8.4
NE	.0	.7	.1	1.6	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1	2.9	7.9
ENE	.0	.6	.1	2.3	.0	.6	.0	.1	.0	.3	.0	.1	.0	.0	.1	4.0	9.9
E	.1	2.2	.3	10.4	.1	2.0	.0	.8	.0	.5	.0	.1	.0	.0	.5	16.1	8.9
ESE	.0	1.1	.4	12.9	.2	5.3	.1	2.3	.0	.8	.0	.1	.0	.0	.7	22.5	10.9
SE	.0	.9	.3	7.9	.1	1.8	.0	.7	.0	.1	.0	.1	.0	.0	.4	11.4	9.3
SSE	.0	.3	.1	1.7	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.1	2.8	9.4
S	.0	.3	.1	1.8	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1	2.6	8.7
SSW	.0	.1	.0	.8	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.0	7.7
SW	.0	.4	.0	1.3	.0	.3	.0	.1	.0	.0	.0	.1	.0	.0	.1	2.2	8.4
WSW	.0	.3	.1	1.7	.0	.2	.0	.1	.0	.3	.0	.1	.0	.0	.1	2.7	9.6
W	.0	.4	.1	3.0	.0	1.0	.0	.8	.0	.5	.0	.1	.0	.0	.2	5.8	12.0
WNW	.0	.2	.2	5.4	.1	2.0	.1	1.8	.1	1.6	.0	.9	.0	.1	.4	12.0	14.0
NW	.0	.3	.1	2.9	.0	1.1	.0	.7	.0	1.1	.0	.3	.0	.0	.2	6.3	13.4
NNW	.0	.0	.0	.6	.0	.2	.0	.3	.0	.3	.0	.0	.0	.0	.0	1.4	13.6
CALM	.1	3.3													.1	3.3	
TOTAL	.4	11.6	1.8	56.0	.5	16.3	.3	8.6	.2	5.8	.1	1.7	.0	.1	3.2	100	10.3

SSM SAULT STE MARIE, MI

CEILING-VISIBILITY

CLASS 4 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 4 / NIGHT

STATION NUMBER: 14847

NO. OBS.: 1576

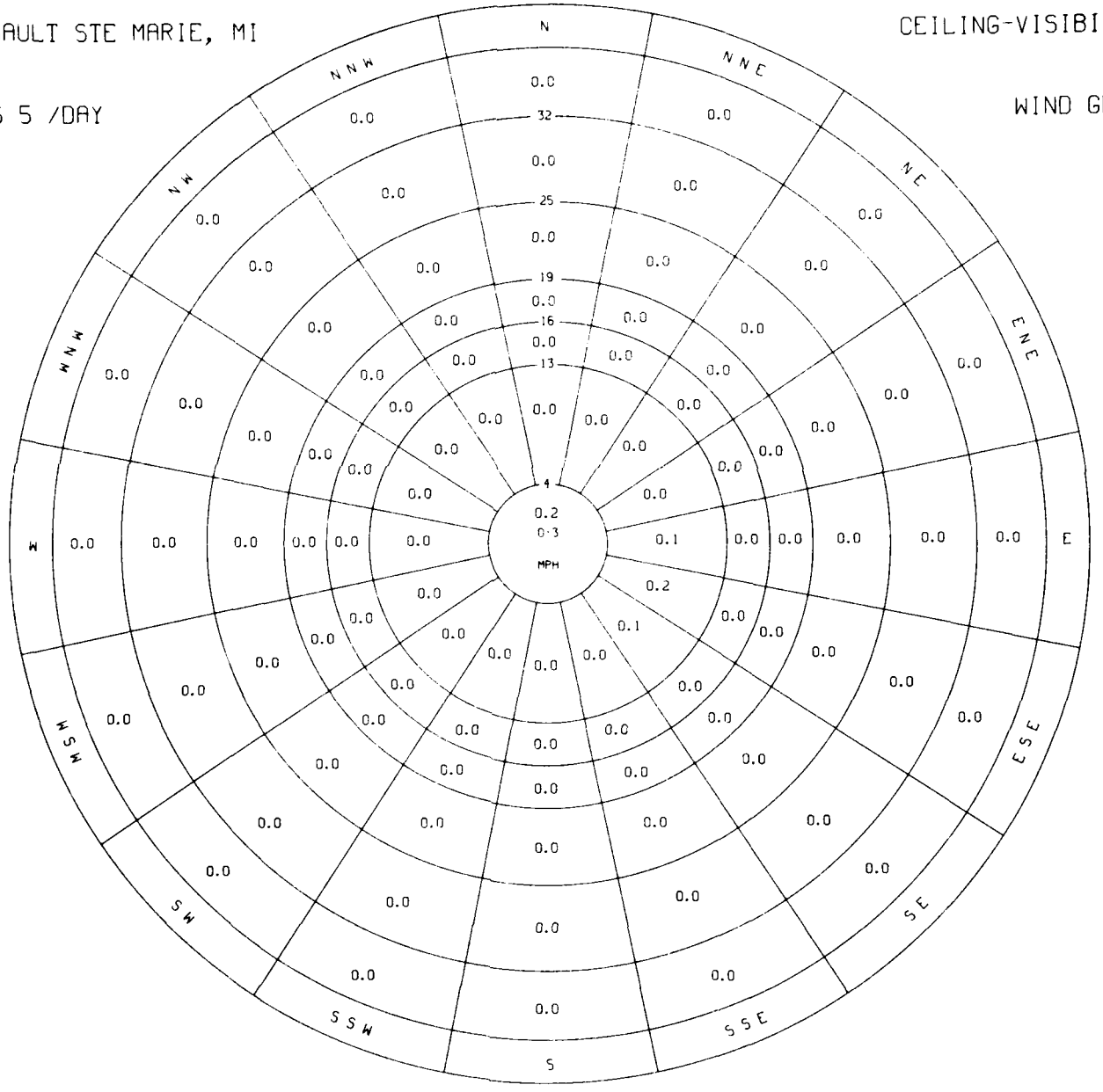
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	1.0	.0	.1	.0	.2	.0	.1	.0	.0	.0	.0	.1	2.0	7.9
NNE	.0	.1	.0	.9	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.1	8.9
NE	.0	1.0	.1	1.9	.0	.4	.0	.2	.0	.1	.0	.0	.0	.0	.1	3.6	8.0
ENE	.0	1.1	.1	3.6	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.2	5.1	6.8
E	.1	1.9	.4	10.5	.1	2.8	.1	1.5	.0	.6	.0	.0	.0	.0	.6	17.3	9.5
ESE	.0	1.1	.4	10.1	.1	3.1	.1	2.3	.0	.4	.0	.1	.0	.0	.6	17.1	10.6
SE	.0	.8	.2	6.1	.1	1.5	.0	.4	.0	.2	.0	.1	.0	.0	.3	9.0	9.3
SSE	.0	.3	.1	1.6	.0	.4	.0	.1	.0	.1	.0	.0	.0	.0	.1	2.5	9.1
S	.0	1.1	.1	1.8	.0	.1	.0	.0	.0	.0	.0	.0	.0	.1	.1	3.2	6.4
SSW	.0	.1	.0	.9	.0	.1	.0	.1	.0	.0	.0	.0	.0	.0	.0	1.2	8.5
SW	.0	.6	.1	1.8	.0	.2	.0	.2	.0	.3	.0	.0	.0	.0	.1	3.0	8.7
WSW	.0	.3	.1	1.5	.0	.4	.0	.7	.0	.4	.0	.1	.0	.0	.1	3.4	12.5
W	.0	1.0	.1	3.7	.0	1.2	.0	.7	.0	.4	.0	.5	.0	.0	.3	7.5	11.1
WNW	.0	.6	.2	5.3	.0	1.2	.1	1.7	.0	1.1	.0	1.1	.0	.3	.4	11.4	13.7
NW	.0	.8	.1	3.2	.0	.7	.0	.8	.0	1.1	.0	.4	.0	.1	.3	7.0	12.5
NNW	.0	.2	.0	.7	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.1	1.4	10.8
CALM	.2	4.1													.2	4.1	
TOTAL	.6	15.7	2.0	54.6	.5	12.7	.4	9.5	.2	4.7	.1	2.3	.0	.5	3.7	100	9.8

SSM SAULT STE MARIE, MI

CLASS 5 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 5 / DAY

STATION NUMBER: 14847

NO. OBS.: 522

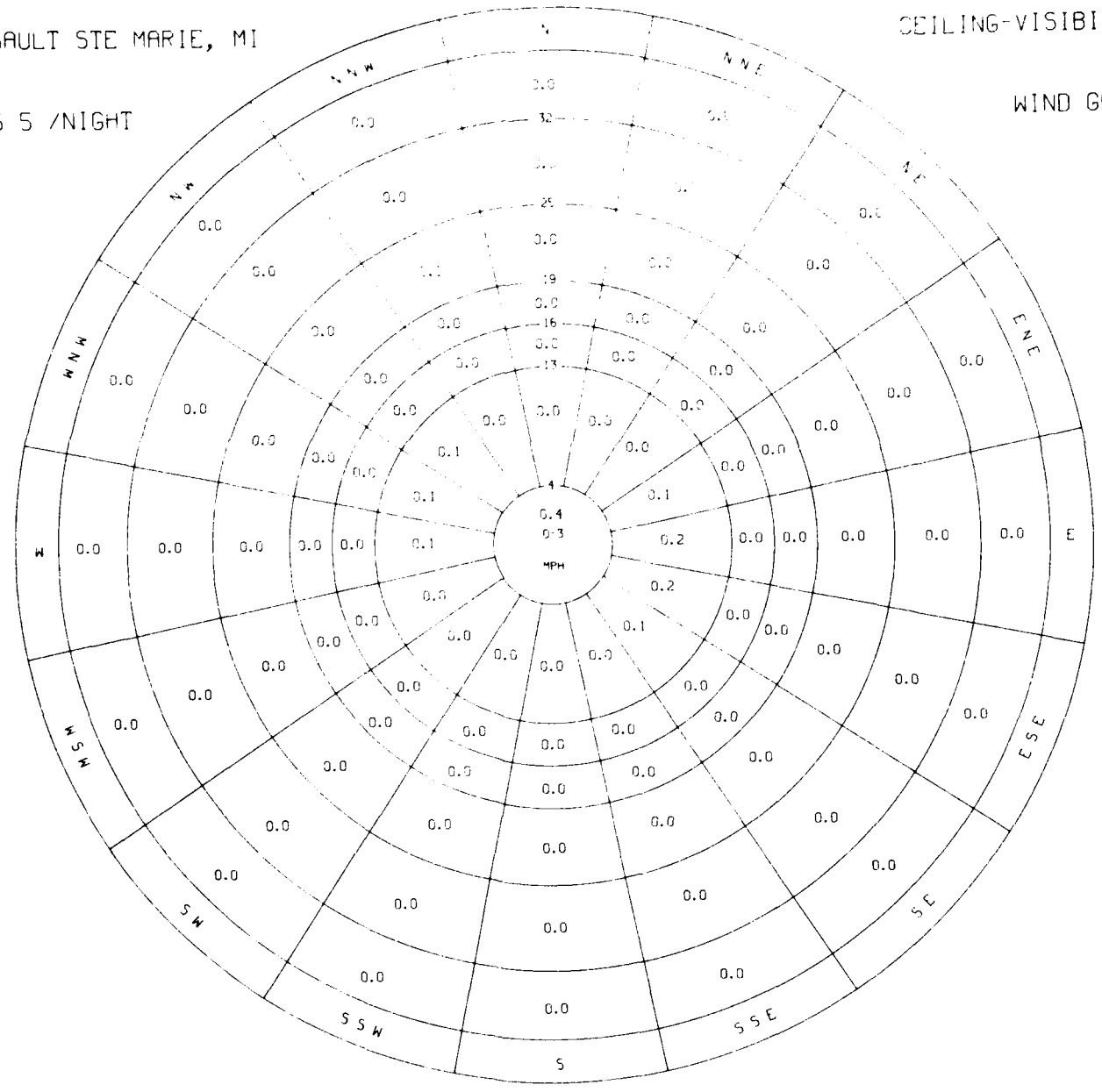
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.2	16.0
N N E	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	3.0
N E	.0	.2	.0	.8	.0	.2	.0	.4	.0	.0	.0	.2	.0	.0	.0	1.7	11.9
E N E	.0	1.0	.0	2.3	.0	.6	.0	.0	.0	.2	.0	.0	.0	.0	.0	4.0	7.0
E	.1	5.4	.1	11.9	.0	.8	.0	1.7	.0	.6	.0	.0	.0	.0	.2	20.3	7.4
E S E	.0	2.1	.2	17.8	.0	3.3	.0	1.9	.0	.8	.0	.0	.0	.0	.3	25.9	9.3
S E	.0	1.3	.1	6.7	.0	1.1	.0	.6	.0	.2	.0	.2	.0	.0	.1	10.2	9.3
S S E	.0	1.0	.0	1.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.7	6.1
S	.0	.6	.0	1.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	5.7
S S W	.0	.6	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.0
S W	.0	1.0	.0	.4	.0	.2	.0	.4	.0	.2	.0	.0	.0	.0	.0	2.1	9.1
W S W	.0	.2	.0	1.1	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	1.7	8.6
W	.0	.6	.0	3.1	.0	.0	.0	.4	.0	.8	.0	.2	.0	.0	.1	5.0	10.6
W N W	.0	1.0	.0	4.6	.0	.8	.0	1.1	.0	.6	.0	1.7	.0	.2	.1	10.0	13.6
N W	.0	.8	.0	1.5	.0	.0	.0	.6	.0	1.5	.0	.6	.0	.0	.1	5.0	14.3
N N W	.0	.0	.0	.4	.0	.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	1.3	13.0
C A L M	.1	6.5													.1	6.5	
T O T A L	.2	22.2	.6	54.2	.1	7.7	.1	7.7	.1	5.2	.0	2.9	.0	.2	1.1	100	8.8

SSM SAULT STE MARIE, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 5 / NIGHT

STATION NUMBER: 14847

NO. OBS.: 696

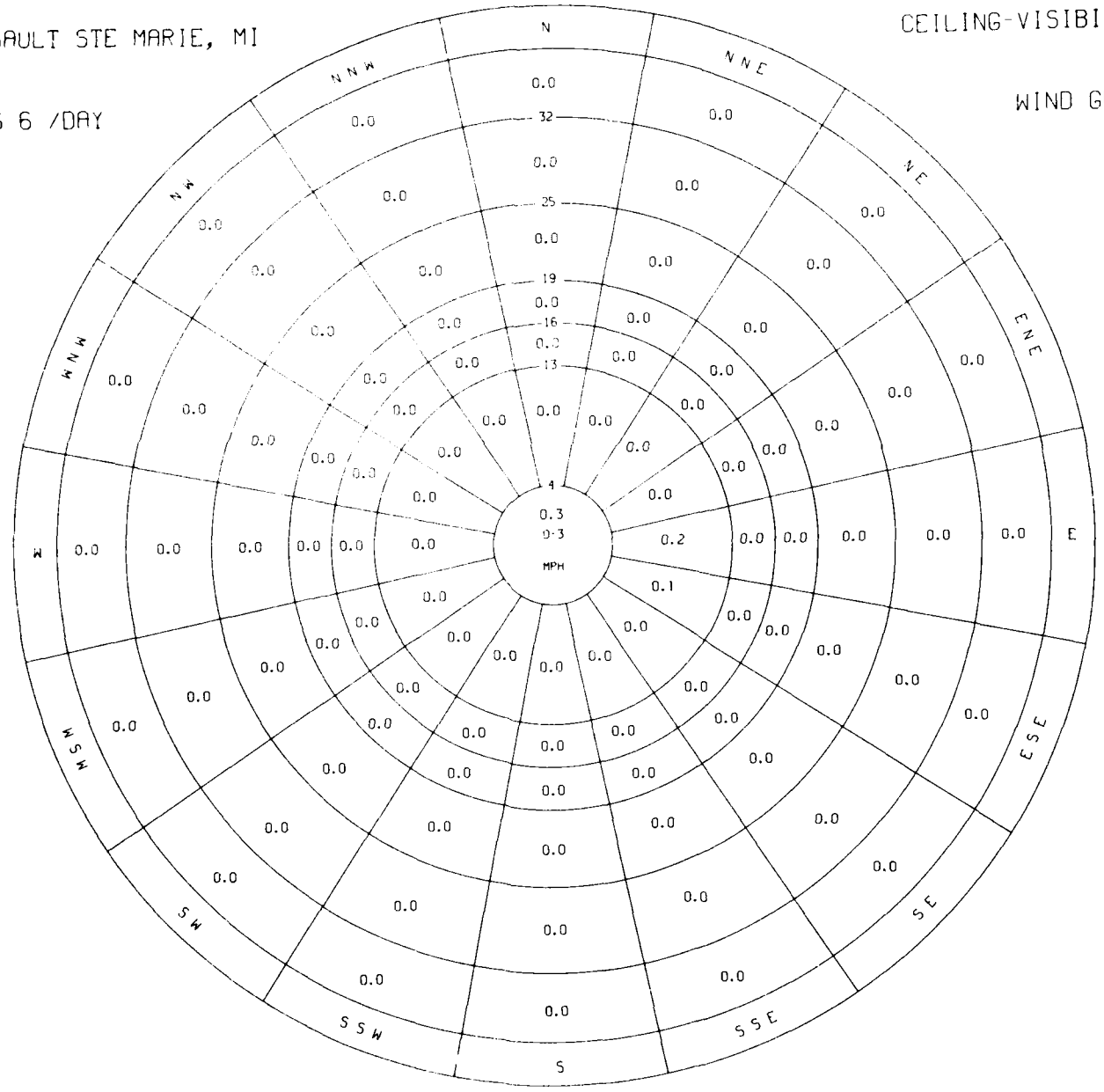
DIR	SPEED GROUPS (MPH)																TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.6	.0	.3	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.1	6.1
NNE	.0	.3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.3	5.0
NE	.0	1.0	.0	1.1	.0	.3	.0	.0	.0	.1	.0	.0	.0	.0	.0	2.6	6.4
ENE	.0	.9	.1	4.7	.0	.1	.0	.4	.0	.4	.0	.0	.0	.0	.1	6.6	7.7
E	.1	4.3	.2	11.6	.0	.7	.0	.1	.0	.1	.0	.0	.0	.0	.3	17.0	6.3
ESE	.0	1.4	.2	12.9	.0	1.9	.0	1.3	.0	.1	.0	.0	.0	.0	.3	17.7	8.9
SE	.0	1.3	.1	5.3	.0	.6	.0	.6	.0	.1	.0	.0	.0	.0	.1	7.9	8.2
SSE	.0	.6	.0	1.4	.0	.0	.0	.1	.0	.0	.0	.0	.0	.0	.0	2.2	6.0
S	.0	.7	.0	.4	.0	.0	.0	.0	.0	.1	.0	.0	.0	.1	.0	1.4	8.7
SSW	.0	.3	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	5.3
SW	.0	.6	.0	1.9	.0	.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.6	6.4
WSW	.0	.6	.0	2.0	.0	.0	.0	.1	.0	.1	.0	.3	.0	.0	.1	3.2	9.3
W	.0	1.3	.1	4.9	.0	.6	.0	.4	.0	.4	.0	.1	.0	.0	.1	7.8	8.7
WNW	.0	.6	.1	6.0	.0	1.0	.0	.6	.0	1.0	.0	.9	.0	.3	.2	10.3	12.7
NW	.0	.4	.1	3.2	.0	.7	.0	.4	.0	.9	.0	.4	.0	.1	.1	6.2	12.6
NNW	.0	.1	.0	1.3	.0	.1	0	.1	.0	.0	.0	.1	.0	.0	.0	1.9	9.2
CALM	.2	10.1													.2	10.1	
TOTAL	.4	25.0	1.0	58.2	.1	6.5	.1	4.3	.1	3.6	.0	1.9	.0	.6	1.6	100	7.8

SSM SAULT STE MARIE, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 6 / DAY

STATION NUMBER: 14847

NO. OBS.: 422

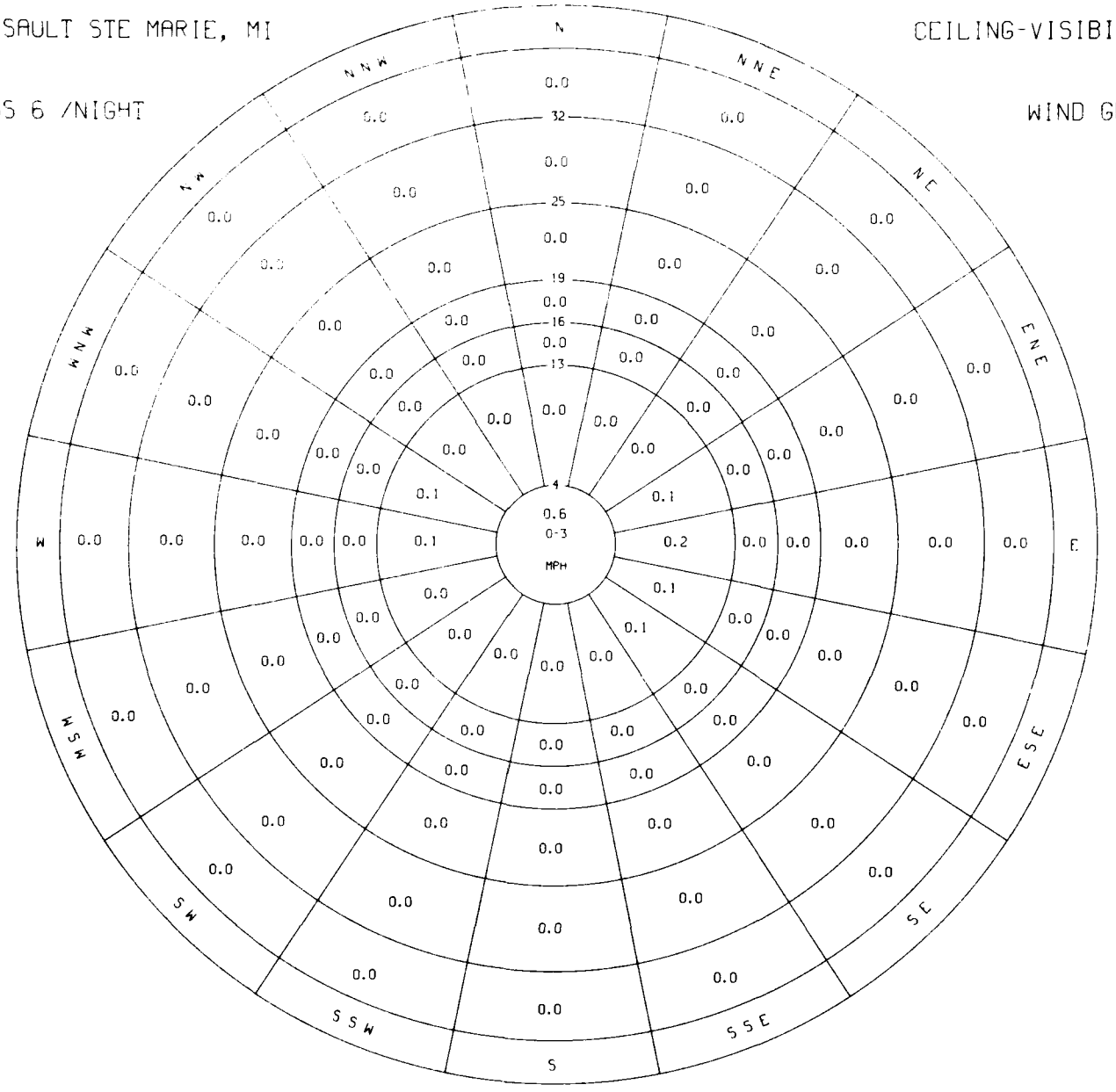
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.2	.0	.0	.0	.7	10.0
NNE	.0	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.9	5.7
NE	.0	1.9	.0	1.4	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	3.6	5.5
ENE	.0	2.8	.0	5.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	8.5	4.9
E	.1	7.8	.2	20.1	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.3	28.7	6.0
ESE	.0	2.8	.1	13.3	.0	1.4	.0	.9	.0	.0	.0	.0	.0	.0	.2	18.5	7.6
SE	.0	1.9	.0	4.0	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.6	6.9
SSE	.0	1.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	4.3
S	.0	.7	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.6
SSW	.0	.7	.0	.7	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	1.9	7.9
SW	.0	1.2	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	5.3
WSW	.0	.0	.0	.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.7	7.3
W	.0	.9	.0	2.1	.0	.2	.0	.5	.0	.5	.0	.7	.0	.0	.0	5.0	12.0
WNW	.0	.0	.0	1.7	.0	.5	.0	.2	.0	1.4	.0	1.7	.0	.5	.1	5.9	19.5
NW	.0	.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.4	6.5
NNW	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	5.0
CALM	.1	11.4													.1	11.4	
TOTAL	.3	35.1	.5	54.0	.0	3.3	.0	2.1	.0	2.4	.0	2.6	.0	.5	.9	100	6.7

SSM SAULT STE MARIE, MI

CEILING-VISIBILITY

CLASS 6 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: SSM SAULT STE MARIE, MI

PERIOD: 1948-1978

CLASS 6 / NIGHT

STATION NUMBER: 14847

NO. OBS.: 623

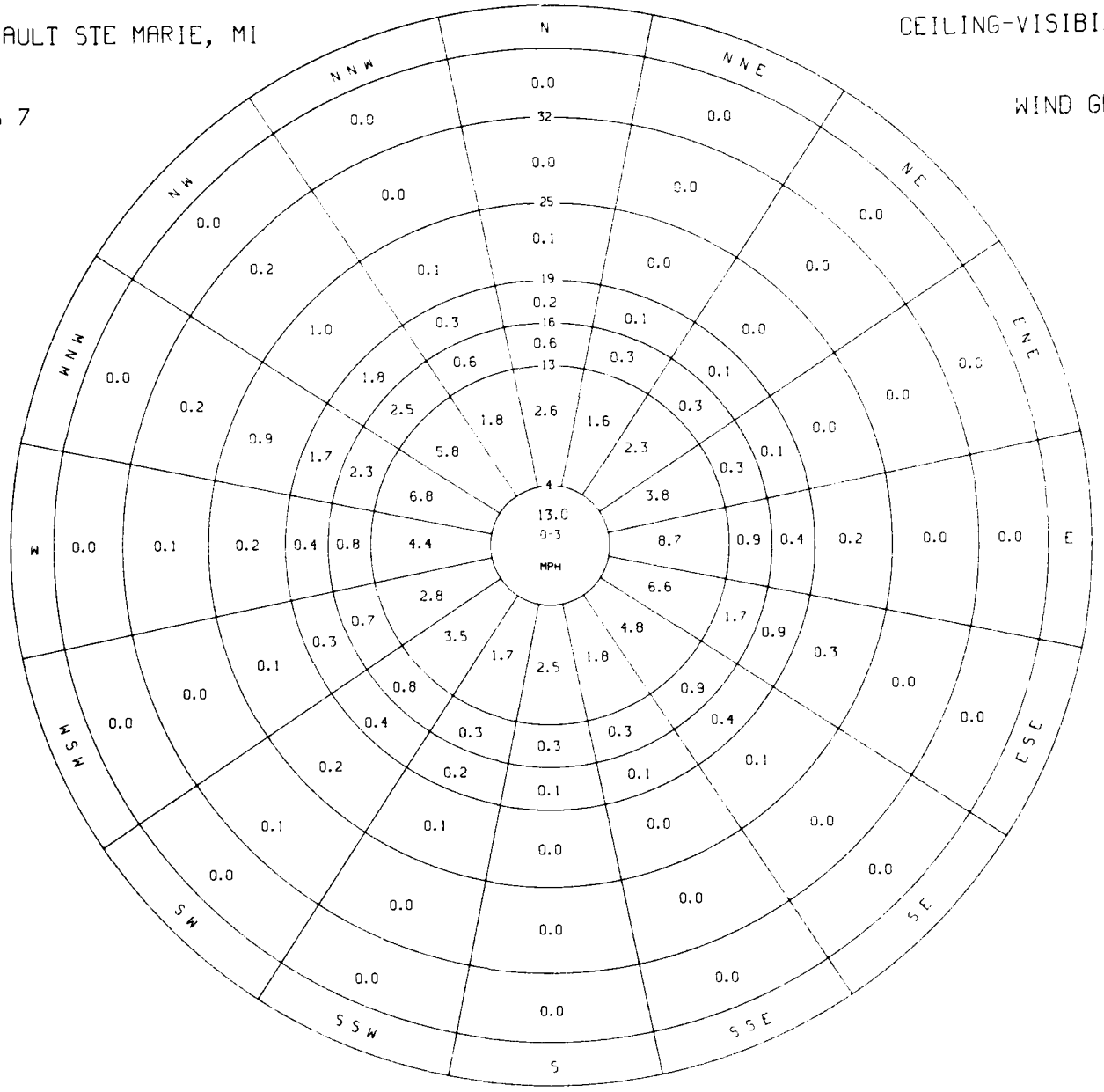
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.5	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.3	4.9
NNE	.0	.5	.0	.2	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.0	.8	6.6
NE	.0	2.7	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.1	4.7	3.9
ENE	.0	1.8	.1	5.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	7.4	5.3
E	.1	6.6	.2	16.1	.0	1.0	.0	.0	.0	.2	.0	.3	.0	.0	.4	24.1	6.4
ESE	.0	1.8	.1	10.1	.0	1.1	.0	.2	.0	.0	.0	.0	.0	.0	.2	13.2	7.5
SE	.0	1.8	.1	4.5	.0	.0	.0	.2	.0	.0	.0	.0	.0	.0	.1	6.4	6.0
SSE	.0	.6	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.6	4.8
S	.0	2.2	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	3.5
SSW	.0	.3	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	4.6
SW	.0	1.4	.0	1.4	.0	.0	.0	.0	.0	.2	.0	.0	.0	.0	.0	3.0	4.7
WSW	.0	.5	.0	.8	.0	.2	.0	.3	.0	.0	.0	.0	.0	.0	.0	1.8	7.6
W	.0	3.4	.1	3.5	.0	.2	.0	.3	.0	.5	.0	.3	.0	.6	.1	8.8	9.5
WNW	.0	.6	.1	4.0	.0	.5	.0	.0	.0	.5	.0	.3	.0	.2	.1	6.1	10.3
NW	.0	1.4	.0	1.8	.0	.3	.0	.3	.0	.2	.0	.6	.0	.0	.1	4.7	9.9
NNW	.0	.6	.0	.3	.0	.2	.0	.0	.0	.0	.0	.2	.0	.0	.0	1.3	8.4
CALM	.2	11.1													.2	11.1	
TOTAL	.6	37.9	.8	53.1	.0	3.4	.0	1.6	.0	1.4	.0	1.8	.0	.8	1.5	100	6.2

SSM SAULT STE MARIE, MI

CLASS 7

CEILING-VISIBILITY

WIND GRAPH


N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
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32
0.0
25
0.1
19
0.2
16
0.6
13
2.6
1.6
1.8
4
13.0
0-3
MPH
0.0
0.0
0.0
0.0
0.1
0.0
0.0
0.0
0.2
0.1
0.0
0.0
0.0
0.0
1.0
0.3
0.1
0.0
0.0
0.0
0.6
0.3
0.1
0.0
0.0
0.0
1.8
2.5
0.9
1.7
2.3
5.8
6.8
2.3
3.8
0.3
0.1
0.0
0.0
0.0
0.0
0.2
0.9
1.7
2.3
0.4
0.8
4.4
8.7
0.9
0.4
0.2
0.0
0.0
E
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0.4
0.8
4.4
2.8
0.7
3.5
1.7
2.5
1.8
4.8
6.6
1.7
0.9
0.3
0.0
0.0
0.0
0.1
0.0
0.3
0.8
0.4
0.3
0.3
0.3
0.9
0.4
0.1
0.0
0.0
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0.0
0.2
0.2
0.1
0.1
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0.0
0.0
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0.0
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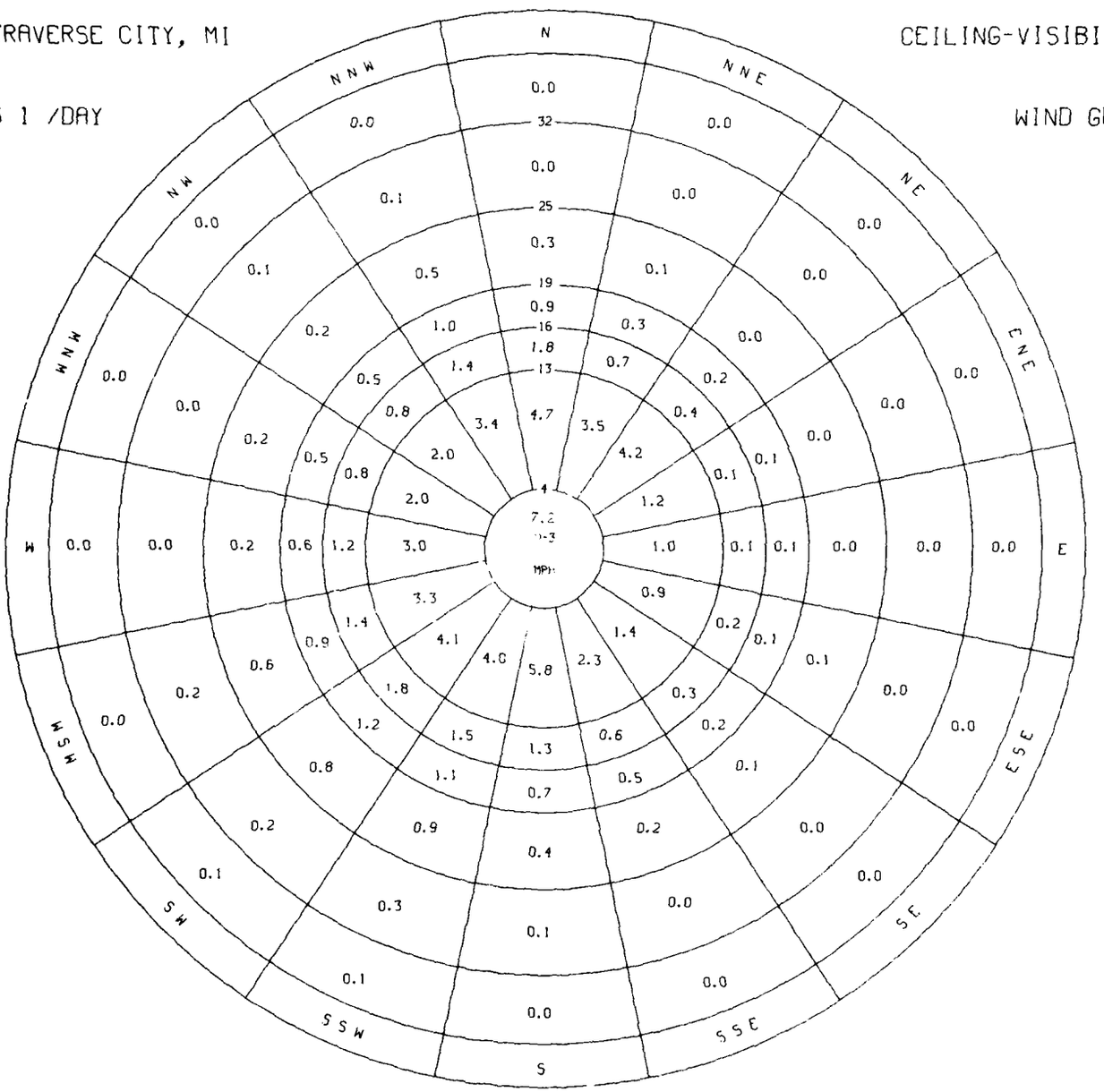
0.0

TVC TRAVERSE CITY, MI

CEILING-VISIBILITY

CLASS 1 /DAY

WIND GRAPH


N
NNE
NE
ENE
E
ESE
SE
SSE
S
SSW
SW
WSW
W
WNW
NW
NNW
0.0
32
0.0
25
0.3
19
0.9
16
1.8
13
4.7
4
7.2
MPH
0.0
0.0
0.0

CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 1 / DAY

STATION NUMBER: 14850

NO. OBS.: 38873

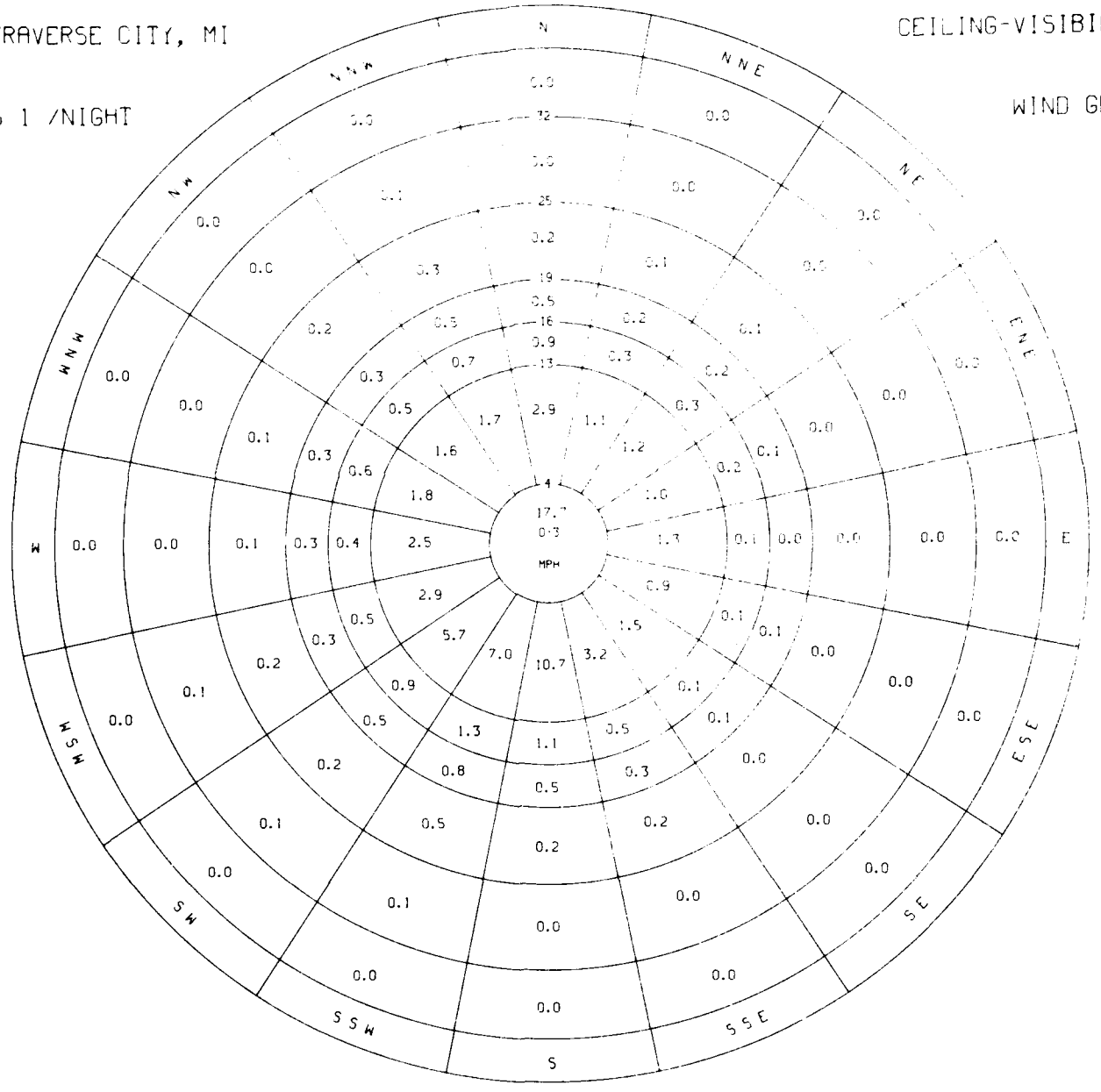
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.3	4.7	5.6	1.8	2.1	.9	1.1	.3	.4	.0	.0	.0	.0	8.0	9.5	11.5
NNE	.2	.2	3.5	4.1	.7	.8	.3	.4	.1	.1	.0	.0	.0	.0	4.7	5.7	10.0
NE	.4	.5	4.2	5.0	.4	.5	.2	.2	.0	.0	.0	.0	.0	.0	5.2	6.3	8.6
ENE	.1	.2	1.2	1.5	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.6	1.9	8.6
E	.1	.1	1.0	1.2	.1	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.4	1.7	9.0
ESE	.1	.1	.9	1.0	.2	.2	.1	.1	.1	.1	.0	.0	.0	.0	1.3	1.6	9.9
SE	.2	.3	1.4	1.7	.3	.4	.2	.2	.1	.1	.0	.0	.0	.0	2.3	2.7	10.1
SSE	.2	.3	2.3	2.8	.6	.7	.5	.5	.2	.3	.0	.1	.0	.0	3.8	4.6	11.1
S	.5	.6	5.8	6.9	1.3	1.5	.7	.8	.4	.4	.1	.1	.0	.0	8.7	10.4	10.4
SSW	.3	.4	4.0	4.8	1.5	1.7	1.1	1.3	.9	1.1	.3	.3	.1	.1	8.2	9.8	12.9
SW	.3	.4	4.1	5.0	1.8	2.1	1.2	1.4	.8	1.0	.2	.3	.1	.1	8.5	10.2	13.0
WSW	.1	.2	3.3	4.0	1.4	1.7	.9	1.1	.6	.7	.2	.2	.0	.0	6.6	7.9	12.9
W	.2	.2	3.0	3.6	1.2	1.5	.6	.8	.2	.3	.0	.1	.0	.0	5.4	6.4	11.8
WNW	.1	.1	2.0	2.4	.8	1.0	.5	.6	.2	.3	.0	.1	.0	.0	3.7	4.4	12.1
NW	.3	.3	2.0	2.4	.8	.9	.5	.6	.2	.3	.1	.1	.0	.0	3.8	4.6	11.6
NNW	.2	.2	3.4	4.1	1.4	1.7	1.0	1.2	.5	.7	.1	.1	.0	.0	6.6	7.9	12.3
CALM	3.5	4.2													3.5	4.2	
TOTAL	7.2	8.6	46.9	56.2	14.4	17.3	8.8	10.5	4.8	5.8	1.1	1.3	.2	.3	83.4	100	11.0

TVC TRAVERSE CITY, MI

CEILING-VISIBILITY

CLASS 1 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 1 / NIGHT

STATION NUMBER: 14850

NO. OBS.: 33609

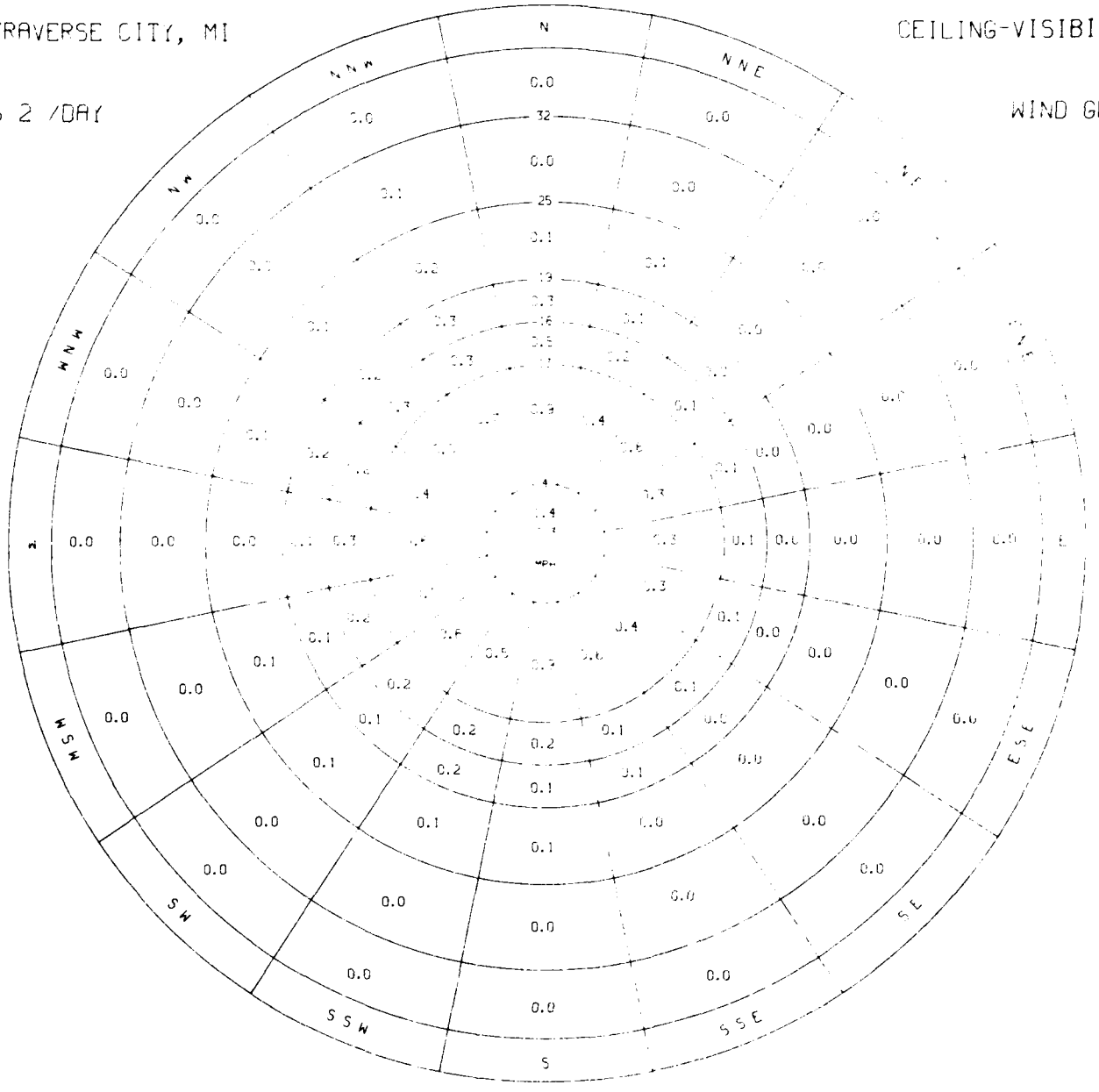
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.2	.2	2.9	3.5	.9	1.1	.5	.6	.2	.2	.0	.0	.0	.0	4.7	5.8	11.0
NNE	.1	.1	1.1	1.4	.3	.4	.2	.3	.1	.1	.0	.0	.0	.0	1.9	2.3	11.0
NE	.3	.3	1.2	1.5	.3	.3	.2	.2	.1	.1	.0	.0	.0	.0	2.0	2.4	9.4
ENE	.1	.2	1.0	1.3	.2	.2	.1	.1	.0	.0	.0	.0	.0	.0	1.5	1.8	8.9
E	.2	.3	1.3	1.6	.1	.1	.0	.1	.0	.0	.0	.0	.0	.0	1.7	2.1	7.8
ESE	.2	.2	.9	1.1	.1	.1	.1	.1	.0	.0	.0	.0	.0	.0	1.3	1.6	8.1
SE	.4	.5	1.5	1.9	.1	.2	.1	.1	.0	.1	.0	.0	.0	.0	2.2	2.7	7.8
SSE	.5	.6	3.2	3.9	.5	.6	.3	.4	.2	.2	.0	.1	.0	.0	4.7	5.8	9.3
S	1.6	1.9	10.7	13.0	1.1	1.4	.5	.7	.2	.2	.0	.1	.0	.0	14.2	17.3	8.2
SSW	1.1	1.4	7.0	8.6	1.3	1.5	.8	1.0	.5	.6	.1	.2	.0	.1	10.9	13.3	9.7
SW	.9	1.1	5.7	6.9	.9	1.1	.5	.6	.2	.3	.1	.1	.0	.1	8.3	10.1	9.4
WSW	.3	.4	2.9	3.6	.5	.6	.3	.4	.2	.2	.1	.1	.0	.0	4.3	5.2	10.2
W	.3	.4	2.5	3.0	.4	.5	.3	.3	.1	.1	.0	.0	.0	.0	3.6	4.4	9.7
WNW	.2	.2	1.8	2.2	.6	.7	.3	.4	.1	.2	.0	.0	.0	.0	3.1	3.8	11.2
NW	.3	.3	1.6	1.9	.5	.7	.3	.4	.2	.3	.0	.0	.0	.0	3.0	3.7	11.2
NNW	.2	.2	1.7	2.1	.7	.8	.5	.6	.3	.4	.1	.2	.0	.0	3.6	4.4	12.5
CALM	10.9	13.3													10.9	13.3	
TOTAL	17.7	21.6	47.1	57.5	8.5	10.4	5.2	6.4	2.5	3.1	.6	.8	.2	.2	82.0	100	8.3

TVC TRAVERSE CITY, MI

CEILING-VISIBILITY

CLASS 2 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 2 / DAY

STATION NUMBER: 14850

NO. OBS.: 7764

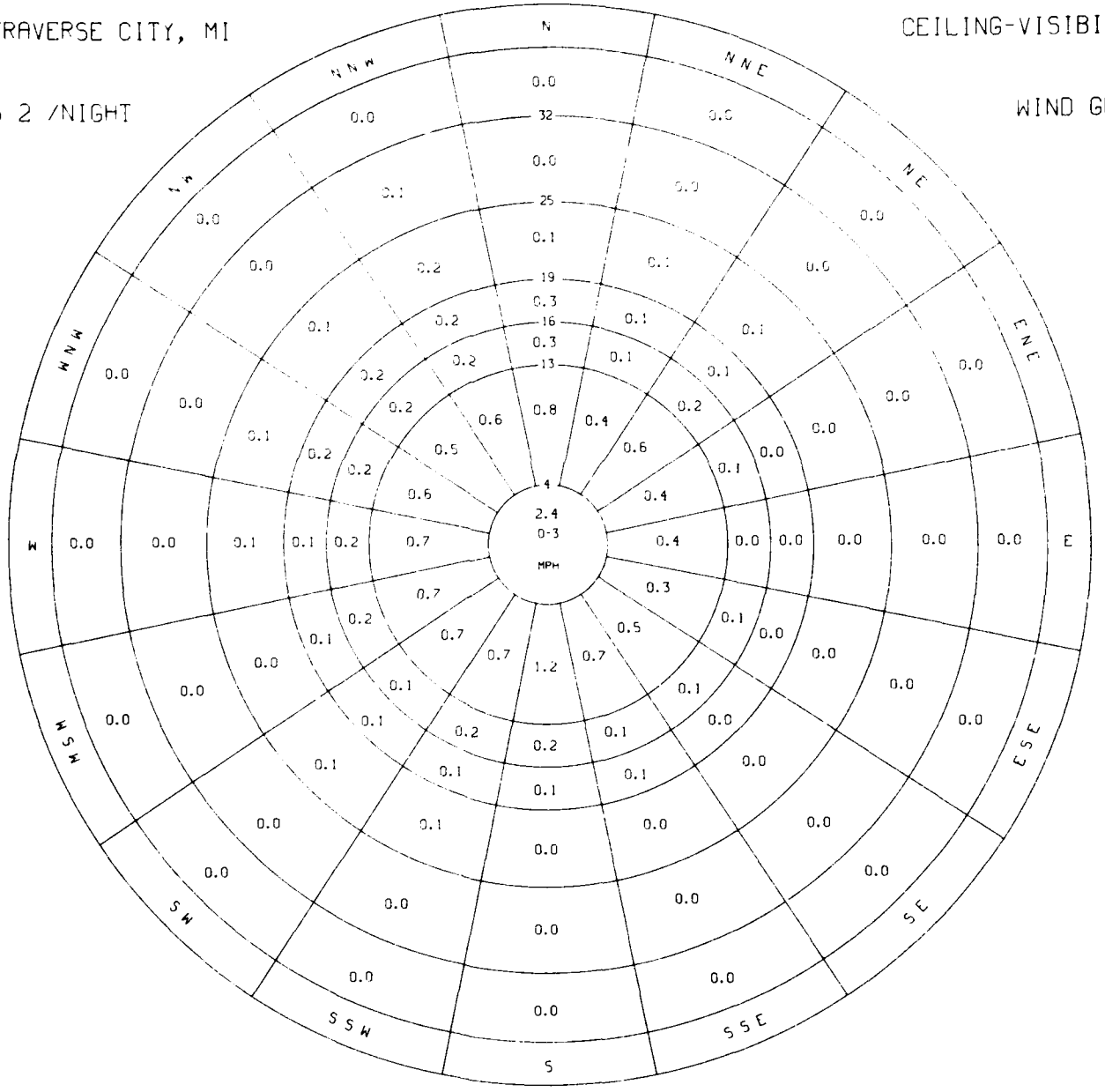
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.5	.9	5.7	.5	2.8	.3	1.8	.1	.8	.0	.2	.0	.1	2.0	11.8	12.5
NNE	.0	.2	.4	2.6	.2	1.2	.1	.7	.1	.4	.0	.1	.0	.0	.9	5.2	12.0
NE	.1	.4	.6	3.5	.1	.7	.0	.3	.0	.2	.0	.0	.0	.0	.9	5.2	9.8
ENE	.0	.2	.3	1.8	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.5	2.7	10.0
E	.1	.3	.3	2.0	.1	.3	.0	.2	.0	.1	.0	.0	.0	.0	.5	2.9	9.0
ESE	.0	.1	.3	1.9	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.6	9.4
SE	.0	.2	.4	2.4	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.6	3.4	9.7
SSE	.0	.3	.6	3.6	.1	.8	.1	.5	.0	.3	.0	.1	.0	.0	.9	5.6	10.8
S	.1	.4	.9	5.4	.2	1.0	.1	.4	.1	.3	.0	.0	.0	.0	1.3	7.6	10.1
SSW	.0	.3	.5	3.2	.2	1.2	.2	.9	.1	.5	.0	.2	.0	.0	1.1	6.3	12.5
SW	.0	.2	.6	3.7	.2	1.3	.1	.8	.1	.5	.0	.2	.0	.1	1.1	6.8	12.3
WSW	.0	.1	.5	3.1	.2	1.3	.1	.9	.1	.6	.0	.2	.0	.0	1.0	6.2	12.8
W	.0	.1	.6	3.6	.3	1.7	.1	.9	.0	.3	.0	.0	.0	.0	1.1	6.6	11.8
WNW	.0	.2	.4	2.6	.2	1.4	.2	.9	.1	.5	.0	.1	.0	.0	1.0	5.8	12.8
NW	.1	.3	.5	3.1	.3	1.8	.2	1.1	.1	.8	.0	.2	.0	.0	1.2	7.2	13.2
NNW	.0	.2	.7	4.1	.3	2.1	.3	1.5	.2	1.4	.1	.4	.0	.1	1.6	9.9	13.9
CALM	.7	4.5													.7	4.5	
TOTAL	1.4	8.6	8.7	52.6	3.1	18.6	1.9	11.3	1.1	6.8	.3	1.7	.1	.3	16.6	100	11.3

TVC TRAVERSE CITY, MI

CLASS 2 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 2 / NIGHT

STATION NUMBER: 14850

NO. OBS.: 7396

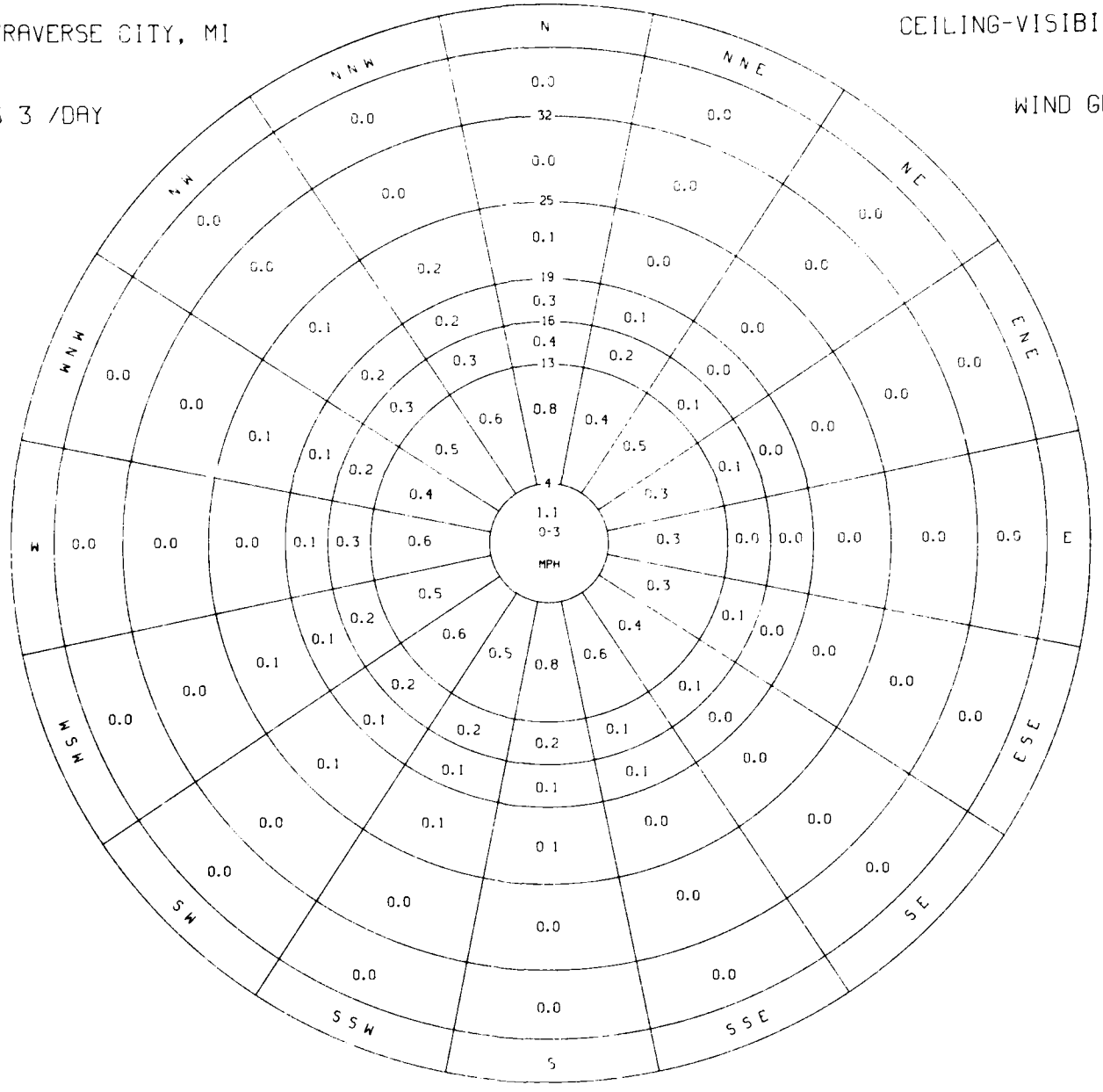
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.3	.8	4.5	.3	1.9	.3	1.6	.1	.7	.0	.2	.0	.1	1.7	9.3	13.0
NNE	.0	.2	.4	2.3	.1	.8	.1	.7	.1	.4	.0	.1	.0	.0	.8	4.6	12.3
NE	.1	.5	.6	3.1	.2	.9	.1	.5	.1	.4	.0	.0	.0	.0	1.0	5.4	10.6
ENE	.0	.2	.4	2.5	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.6	3.5	9.3
E	.1	.6	.4	2.5	.0	.2	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.4	7.5
ESE	.0	.2	.3	1.8	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.4	9.1
SE	.1	.4	.5	2.7	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.7	3.8	9.1
SSE	.1	.6	.7	3.7	.1	.7	.1	.4	.0	.1	.0	.0	.0	.0	1.0	5.5	9.6
S	.1	.8	1.2	6.9	.2	1.0	.1	.4	.0	.1	.0	.0	.0	.0	1.7	9.2	9.0
SSW	.1	.4	.7	4.0	.2	1.0	.1	.7	.1	.3	.0	.1	.0	.0	1.2	6.6	11.0
SW	.1	.5	.7	4.0	.1	.7	.1	.7	.1	.4	.0	.1	.0	.1	1.2	6.5	11.0
WSW	.0	.2	.7	3.6	.2	.9	.1	.7	.0	.2	.0	.1	.0	.2	1.1	5.9	12.1
W	.0	.2	.7	3.8	.2	1.2	.1	.7	.1	.3	.0	.1	.0	.1	1.1	6.3	11.7
WNW	.0	.2	.6	3.3	.2	1.3	.2	1.2	.1	.4	.0	.1	.0	.0	1.2	6.4	12.5
NW	.1	.5	.5	2.9	.2	1.3	.2	1.0	.1	.5	.0	.2	.0	.0	1.2	6.5	12.8
NNW	.1	.4	.6	3.1	.2	1.3	.2	1.3	.2	1.1	.1	.4	.0	.1	1.4	7.7	13.9
CALM	1.3	7.0													1.3	7.0	
TOTAL	2.4	13.1	9.9	54.8	2.6	14.4	1.9	10.4	.9	5.1	.3	1.5	.1	.7	18.0	100	10.4

TVC TRAVERSE CITY, MI

CLASS 3 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 3 / DAY

STATION NUMBER: 14850

NO. OBS.: 6921

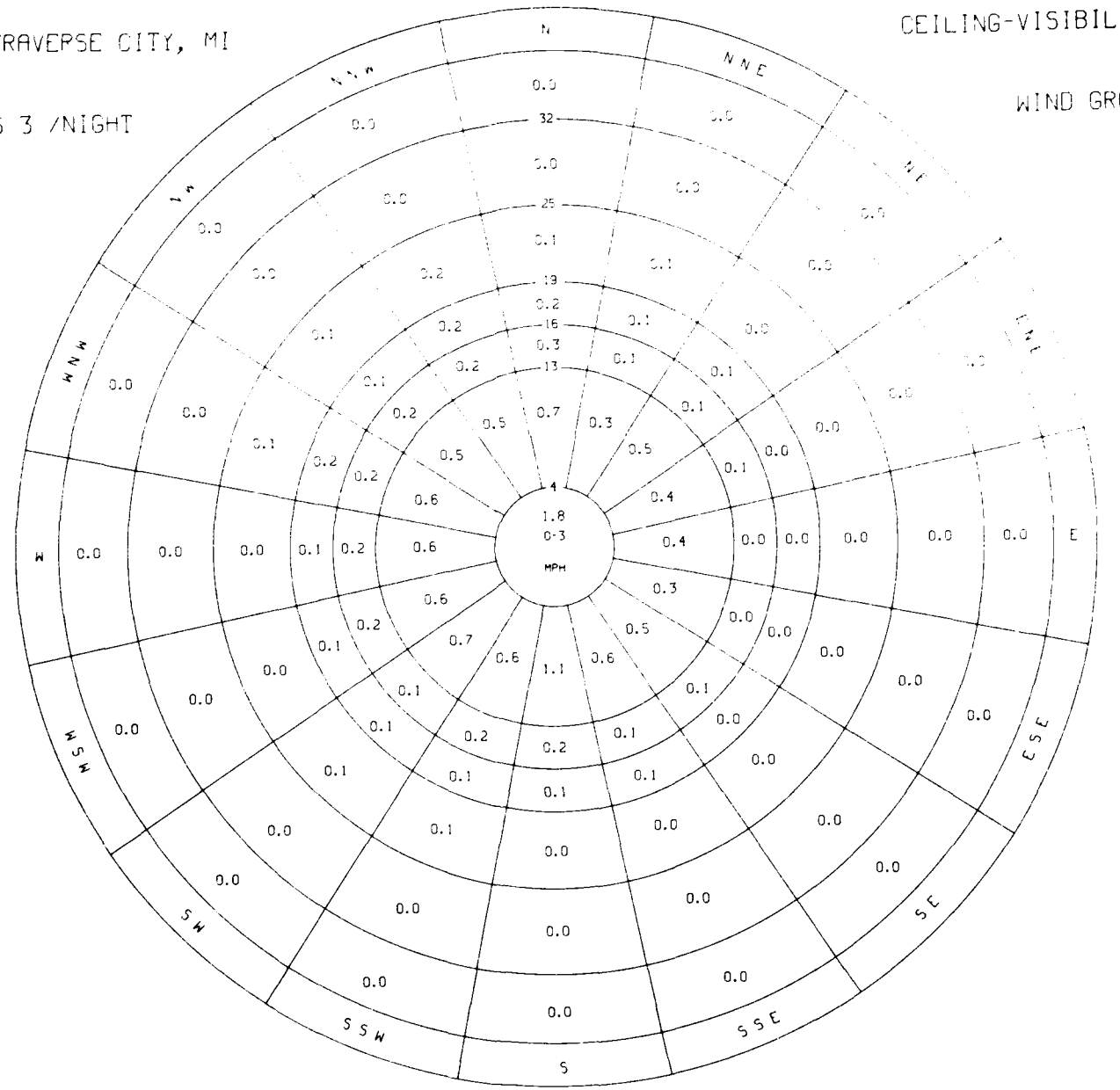
DIR	SPEED GROUPS (MPH)																TOTAL		AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+						
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.1	.4	.8	5.7	.4	2.8	.3	1.7	.1	.7	.0	.1	.0	.0	1.7	11.5	12.3
NNE	.0	.2	.4	2.6	.2	1.2	.1	.7	.0	.3	.0	.1	.0	.0	.7	5.0	12.0
NE	.1	.4	.5	3.5	.1	.7	.0	.2	.0	.1	.0	.0	.0	.0	.7	4.9	9.8
ENE	.0	.1	.3	1.8	.1	.4	.0	.2	.0	.0	.0	.0	.0	.0	.4	2.6	10.0
E	.0	.3	.3	2.1	.0	.3	.0	.2	.0	.1	.0	.0	.0	.0	.4	2.9	9.2
ESE	.0	.1	.3	2.0	.1	.3	.0	.1	.0	.1	.0	.0	.0	.0	.4	2.7	9.5
SE	.0	.2	.4	2.6	.1	.4	.0	.2	.0	.1	.0	.0	.0	.0	.5	3.6	9.7
SSE	.0	.3	.6	3.9	.1	.8	.1	.5	.0	.3	.0	.1	.0	.0	.9	5.9	10.9
S	.1	.3	.8	5.6	.2	1.0	.1	.4	.1	.4	.0	.0	.0	.0	1.2	7.9	10.3
SSW	.0	.2	.5	3.4	.2	1.3	.1	1.0	.1	.5	.0	.2	.0	.0	1.0	6.6	12.6
SW	.0	.2	.6	3.9	.2	1.4	.1	.8	.1	.5	.0	.1	.0	.0	1.0	7.0	12.2
WSW	.0	.1	.5	3.3	.2	1.4	.1	.9	.1	.5	.0	.2	.0	.0	1.0	6.4	12.6
W	.0	.1	.6	3.8	.3	1.8	.1	.9	.0	.3	.0	.0	.0	.1	1.0	6.9	11.8
WNW	.0	.2	.4	2.7	.2	1.4	.1	.9	.1	.4	.0	.1	.0	.0	.9	5.8	12.7
NW	.0	.3	.5	3.1	.3	1.8	.2	1.1	.1	.7	.0	.1	.0	.0	1.0	7.0	12.8
NNW	.0	.2	.6	4.0	.3	2.1	.2	1.5	.2	1.3	.0	.2	.0	.1	1.4	9.4	13.?
CALM	.6	3.9													.6	3.9	
TOTAL	.1	7.5	8.0	54.1	2.8	19.1	1.7	11.4	.9	6.4	.2	1.3	.1	.2	14.8	100	11.3

TVC TRAVERSE CITY, MI

CLASS 3 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 3 / NIGHT

STATION NUMBER: 14850

NO. OBS.: 6497

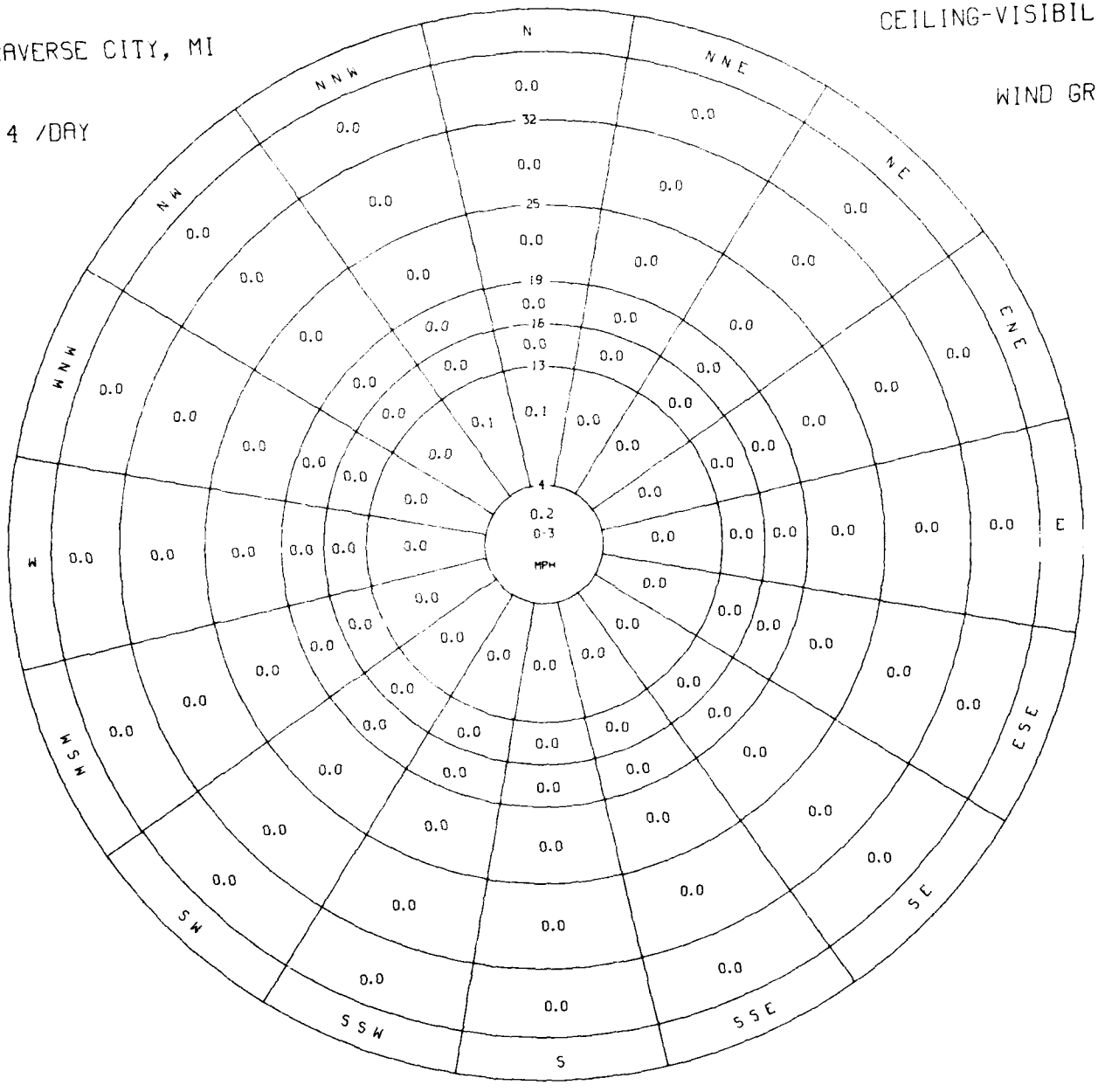
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.2	.7	4.4	.3	1.9	.2	1.6	.1	.6	.0	.1	.0	.1	1.4	8.9	12.8
NNE	.0	.2	.3	2.2	.1	.8	.1	.7	.1	.3	.0	.1	.0	.0	.7	4.3	12.3
NE	.1	.4	.5	3.2	.1	.9	.1	.5	.0	.3	.0	.0	.0	.0	.8	5.2	10.7
ENE	.0	.2	.4	2.5	.1	.4	.0	.3	.0	.0	.0	.0	.0	.0	.5	3.4	9.2
E	.1	.5	.4	2.7	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.6	3.6	7.6
ESE	.0	.2	.3	2.0	.0	.3	.0	.1	.0	.0	.0	.0	.0	.0	.4	2.6	9.1
SE	.1	.4	.5	2.9	.1	.4	.0	.3	.0	.1	.0	.0	.0	.0	.6	4.0	9.2
SSE	.1	.5	.6	4.0	.1	.8	.1	.4	.0	.1	.0	.0	.0	.0	.9	5.8	9.7
S	.1	.7	1.1	7.2	.2	1.1	.1	.4	.0	.1	.0	.0	.0	.0	1.5	9.6	9.1
SSW	.1	.4	.6	4.0	.2	1.1	.1	.8	.1	.3	.0	.1	.0	.0	1.1	6.9	11.3
SW	.1	.4	.7	4.4	.1	.7	.1	.7	.1	.4	.0	.1	.0	.1	1.1	6.8	10.9
WSW	.0	.2	.6	3.8	.2	1.0	.1	.7	.0	.2	.0	.1	.0	.1	1.0	6.0	11.8
W	.0	.2	.6	4.1	.2	1.3	.1	.7	.0	.3	.0	.1	.0	.0	1.0	6.6	11.6
WNW	.0	.2	.6	3.5	.2	1.4	.2	1.2	.1	.4	.0	.0	.0	.0	1.1	6.6	12.2
NW	.1	.4	.5	2.9	.2	1.4	.1	.9	.1	.5	.0	.2	.0	.0	1.0	6.3	12.7
NNW	.1	.3	.5	3.0	.2	1.3	.2	1.3	.2	1.1	.0	.3	.0	.0	1.2	7.4	13.9
CALM	.9	6.0													.9	6.0	
TOTAL	1.8	11.2	9.0	56.7	2.4	15.3	1.7	10.5	.7	4.7	.2	1.2	.1	.4	15.8	100	10.5

TVC TRAVERSE CITY, MI

CLASS 4 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 4 / DAY

STATION NUMBER: 14850

NO. OBS.: 640

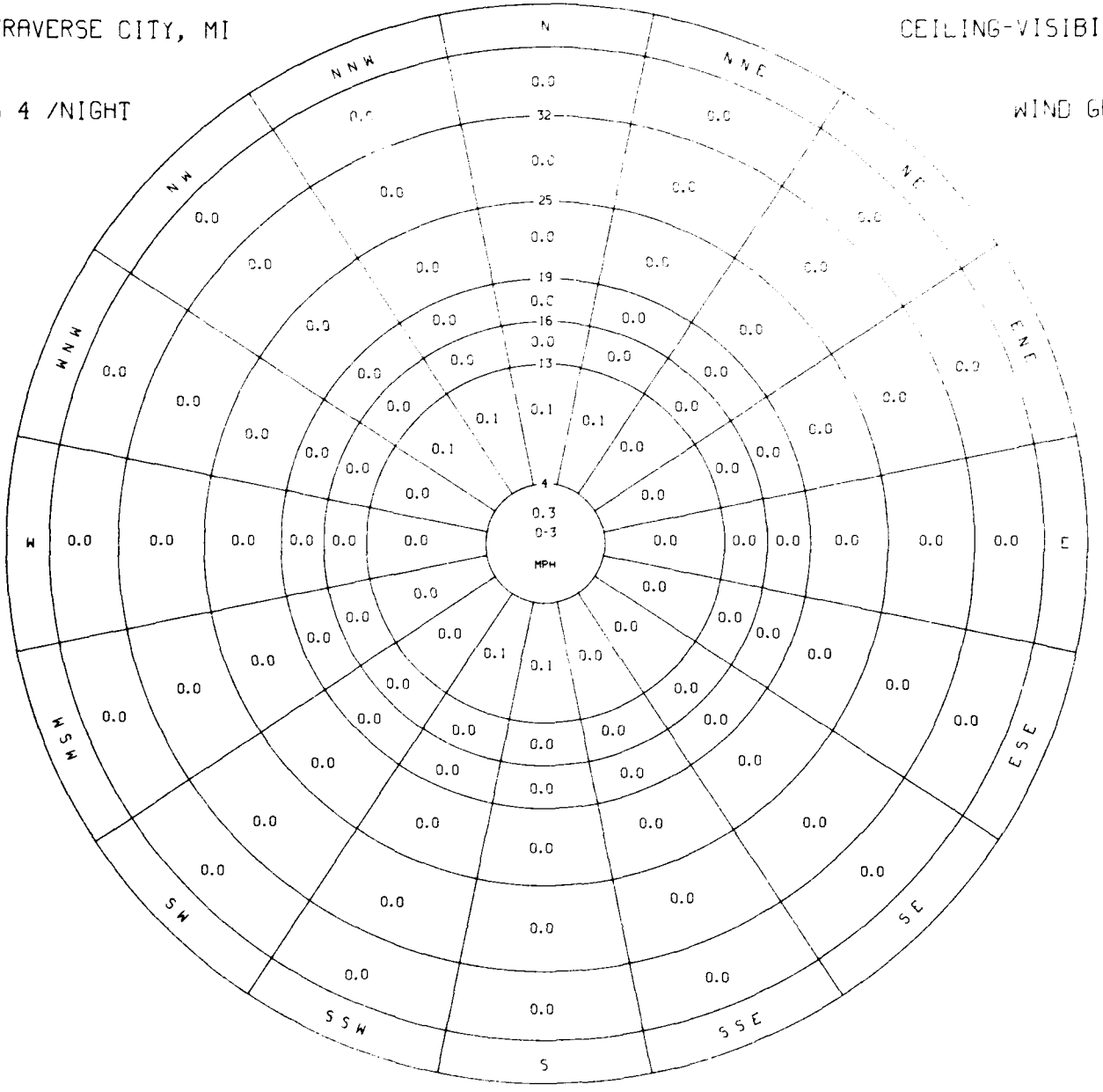
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.6	.1	5.6	.0	2.7	.0	2.2	.0	1.4	.0	.5	.0	.3	.2	14.2	12.6
NNE	.0	.9	.0	3.0	.0	1.7	.0	.3	.0	.8	.0	.2	.0	.0	.1	6.9	11.2
NE	.0	.2	.0	3.0	.0	.9	.0	.8	.0	.6	.0	.0	.0	.0	.1	5.5	11.3
ENE	.0	.2	.0	2.2	.0	.5	.0	.5	.0	.2	.0	.2	.0	.0	.0	3.6	10.9
E	.0	.8	.0	1.6	.0	.5	.0	.2	.0	.0	.0	.0	.0	.0	.0	3.0	7.7
ESE	.0	.0	.0	1.2	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	9.7
SE	.0	.2	.0	.9	.0	.0	.0	.2	.0	.2	.0	.0	.0	.0	.0	1.4	10.3
SSE	.0	.6	.0	1.7	.0	.5	.0	.6	.0	.3	.0	.0	.0	.0	.1	3.7	10.4
S	.0	.6	.0	3.3	.0	.5	.0	.0	.0	.3	.0	.0	.0	.0	.1	4.7	8.8
SSW	.0	.6	.0	1.7	.0	.5	.0	.8	.0	.5	.0	.2	.0	.0	.1	4.2	11.3
SW	.0	.0	.0	2.2	.0	.9	.0	.6	.0	.2	.0	.5	.0	.2	.1	4.5	13.9
WSW	.0	.2	.0	1.9	.0	.9	.0	.6	.0	1.2	.0	.2	.0	.2	.1	5.2	15.1
W	.0	.2	.0	2.0	.0	1.4	.0	.9	.0	.2	.0	.0	.0	.0	.1	4.7	12.4
WNW	.0	.3	.0	2.3	.0	1.1	.0	1.2	.0	.9	.0	.3	.0	.2	.1	6.4	14.7
NW	.0	.8	.0	3.1	.0	2.3	.0	1.1	.0	1.6	.0	.6	.0	.0	.1	9.5	14.2
NNW	.0	.5	.1	5.3	.0	1.9	.0	1.7	.0	2.2	.0	1.9	.0	.0	.2	13.4	15.2
CALM	.1	7.3													.1	7.3	
TOTAL	.2	14.8	.6	41.1	.2	16.7	.2	11.7	.1	10.5	.1	4.4	.0	.8	1.4	100	11.7

TVC TRAVERSE CITY, MI

CEILING-VISIBILITY

CLASS 4 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 4 / NIGHT

STATION NUMBER: 14850

NO. OBS.: 619

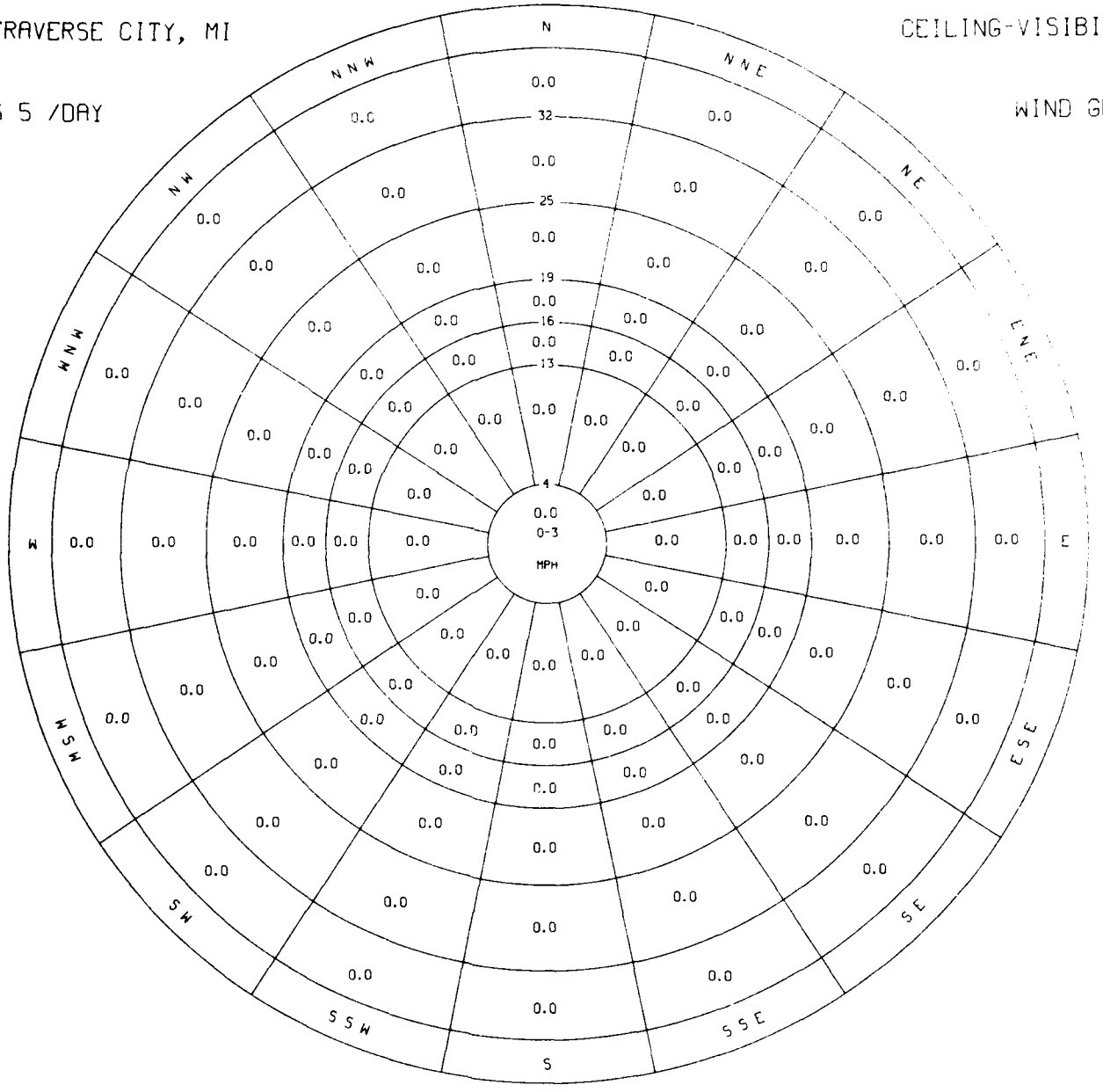
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.3	.1	6.8	.0	1.6	.0	1.5	.0	1.6	.0	1.0	.0	.3	.2	13.1	13.7
NNE	.0	.6	.1	3.9	.0	1.1	.0	1.3	.0	.8	.0	.3	.0	.2	.1	8.2	12.5
NE	.0	1.3	.0	2.4	.0	1.0	.0	.6	.0	.8	.0	.0	.0	.0	.1	6.1	10.5
ENE	.0	.2	.0	2.4	.0	.6	.0	.2	.0	.2	.0	.2	.0	.0	.1	3.7	10.5
E	.0	1.0	.0	1.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.1	4.6
ESE	.0	.0	.0	.3	.0	.2	.0	.2	.0	.2	.0	.0	.0	.0	.0	.8	12.8
SE	.0	.8	.0	1.6	.0	.2	.0	.2	.0	.0	.0	.0	.0	.0	.0	2.7	7.9
SSE	.0	1.3	.0	2.4	.0	.3	.0	.6	.0	.0	.0	.2	.0	.2	.1	5.0	9.7
S	.0	1.1	.1	3.9	.0	.6	.0	.3	.0	.0	.0	.0	.0	.0	.1	6.0	7.7
SSW	.0	.6	.1	4.0	.0	.3	.0	.0	.0	.2	.0	.0	.0	.0	.1	5.2	8.4
SW	.0	.8	.0	1.5	.0	.8	.0	.5	.0	.8	.0	.2	.0	.2	.1	4.7	13.3
WSW	.0	.2	.0	3.1	.0	.2	.0	.6	.0	.8	.0	.0	.0	.5	.1	5.3	14.4
W	.0	.2	.0	2.4	.0	.6	.0	.6	.0	.5	.0	.2	.0	.3	.1	4.8	14.2
WNW	.0	.0	.0	2.6	.0	.3	.0	1.5	.0	.8	.0	.6	.0	.2	.1	6.0	15.6
NW	.0	.6	.1	3.7	.0	.3	.0	2.3	.0	.8	.0	.6	.0	.2	.1	8.6	13.9
NNW	.0	.6	.1	3.7	.0	1.1	.0	1.5	.0	.8	.0	.3	.0	.6	.1	8.7	14.0
CALM	.1	8.9													.1	8.9	
TOTAL	.3	18.6	.7	45.9	.1	9.4	.2	11.8	.1	8.2	.1	3.6	.0	2.6	1.5	100	11.1

TVC TRAVERSE CITY, MI

CEILING-VISIBILITY

CLASS 5 /DAY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 5 / DAY

STATION NUMBER: 14850

NO. OBS.: 98

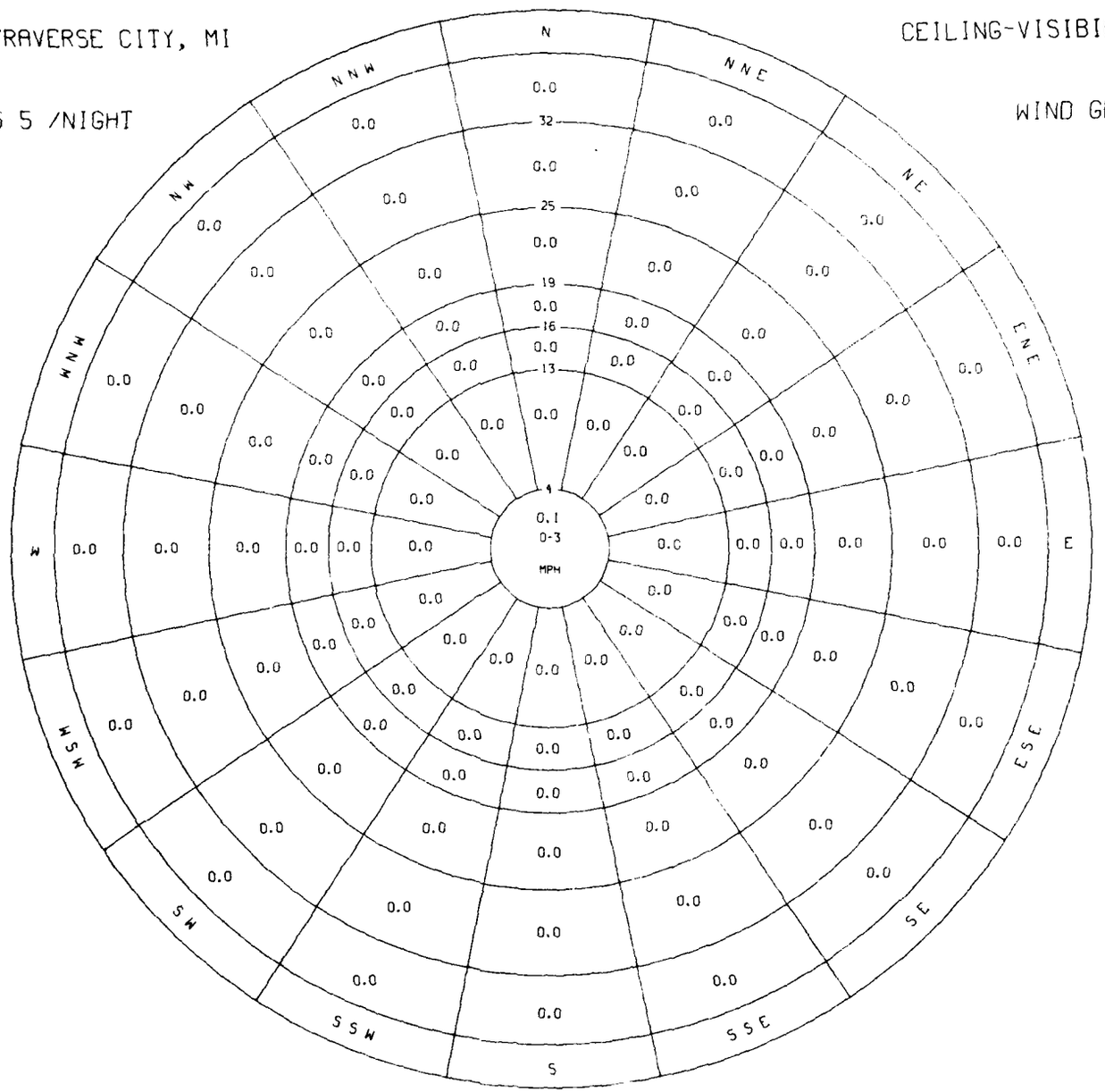
DIR	SPEED GROUPS (MPH)														AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.0	.0	5.1	.0	2.0	.0	1.0	.0	3.1	.0	3.1	.0	.0	.0	15.3	15.9
NNE	.0	1.0	.0	2.0	.0	1.0	.0	.0	.0	3.1	.0	.0	.0	.0	.0	7.1	14.1
NE	.0	1.0	.0	6.1	.0	2.0	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	12.2	11.6
ENE	.0	1.0	.0	3.1	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	6.1	9.0
E	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	10.0
ESE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	6.0
SE	.0	1.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	7.3
SSE	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	18.0
S	.0	1.0	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.1	9.0
SSW	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	8.5
SW	.0	1.0	.0	2.0	.0	.0	.0	.0	.0	1.0	.0	2.0	.0	.0	.0	6.1	15.0
WSW	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	21.0
W	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	1.0	17.0
WNW	.0	1.0	.0	2.0	.0	.0	.0	2.0	.0	.0	.0	.0	.0	.0	.0	5.1	10.2
NW	.0	.0	.0	2.0	.0	1.0	.0	1.0	.0	2.0	.0	1.0	.0	1.0	.0	8.2	19.5
NNW	.0	.0	.0	4.1	.0	2.0	.0	.0	.0	6.1	.0	4.1	.0	.0	.0	16.3	18.5
CALM	.0	10.2													.0	10.2	
TOTAL	.0	19.4	.1	30.6	.0	12.2	.0	8.2	.0	18.4	.0	10.2	.0	1.0	.2	100	12.9

TVC TRAVERSE CITY, MI

CLASS 5 /NIGHT

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 5 / NIGHT

STATION NUMBER: 14850

NO. OBS.: 120

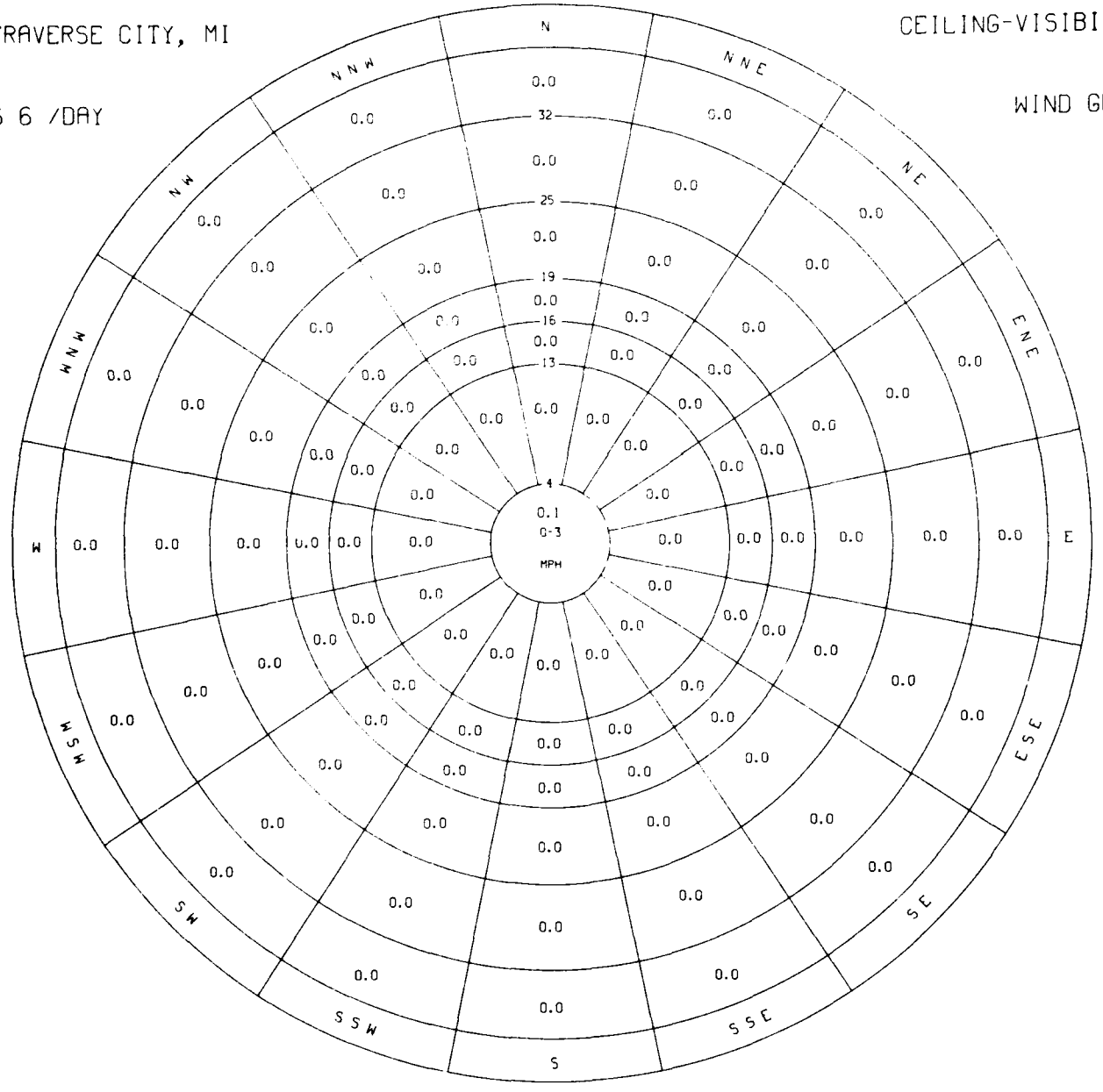
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	.8	.0	2.5	.0	.8	.0	3.3	.0	4.2	.0	.0	.0	.0	.0	11.7	15.7
NNE	.0	.0	.0	.8	.0	.0	.0	.0	.0	1.7	.0	.0	.0	.8	.0	3.3	22.7
NE	.0	1.7	.0	1.7	.0	.0	.0	.0	.0	3.3	.0	.0	.0	.0	.0	6.7	13.6
ENE	.0	.8	.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.8	6.4
E	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
ESE	.0	.8	.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.3	6.5
SE	.0	.0	.0	1.7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	7.5
SSE	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.7	5.0
S	.0	1.7	.0	5.8	.0	.8	.0	.8	.0	.0	.0	.0	.0	.0	.0	9.2	7.6
SSW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.8	5.0
SW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.0	.0	.8	.0	.0	.0	1.7	17.5
WSW	.0	.0	.0	.8	.0	.0	.0	.0	.0	.8	.0	.8	.0	.8	.0	3.3	21.7
W	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
WNW	.0	.8	.0	.8	.0	.8	.0	1.7	.0	.8	.0	.0	.0	.0	.0	5.0	13.5
NW	.0	2.5	.0	4.2	.0	.8	.0	.8	.0	.8	.0	.0	.0	.0	.0	9.2	9.2
NNW	.0	.8	.0	5.8	.0	.0	.0	2.5	.0	.0	.0	3.3	.0	1.7	.0	14.2	16.4
CALM	.1	22.5													.1	22.5	
TOTAL	.1	33.3	.1	34.2	.0	3.3	.0	9.2	.0	11.7	.0	5.0	.0	3.3	.3	100	9.9

TVC TRAVERSE CITY, MI

CLASS 6 /DAY

CEILING-VISIBILITY

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 6 / DAY

STATION NUMBER: 14850

NO. OBS.: 105

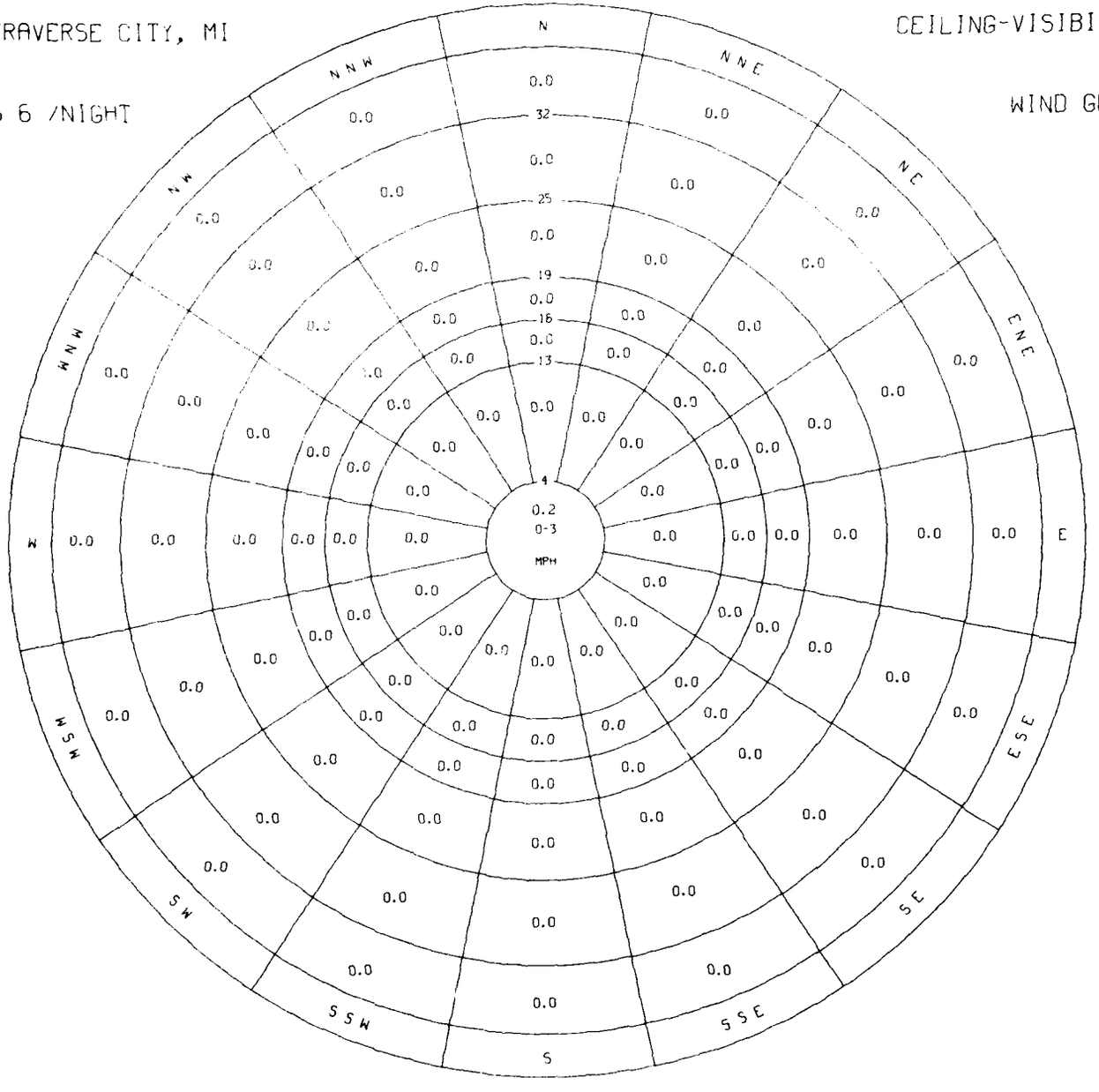
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	1.9	.0	3.8	.0	1.9	.0	.0	.0	1.0	.0	1.0	.0	1.9	.0	11.4	15.4
NNE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	1.9	15.5
NE	.0	3.8	.0	6.7	.0	.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	11.4	6.0
ENE	.0	1.0	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	5.7
E	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.9	4.0
ESE	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	3.0
SE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	5.0
SSE	.0	.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	9.0
S	.0	.0	.0	8.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.6	6.2
SSW	.0	2.9	.0	2.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.7	5.0
SW	.0	1.0	.0	1.9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.9	5.3
WSW	.0	.0	.0	1.9	.0	1.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	3.8	10.5
W	.0	.0	.0	3.8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.8	6.3
WNW	.0	1.9	.0	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	.0	.0	3.8	10.5
NW	.0	1.0	.0	2.9	.0	1.0	.0	1.0	.0	1.9	.0	1.0	.0	1.0	.0	9.5	16.8
NNW	.0	2.9	.0	3.8	.0	.0	.0	1.0	.0	.0	.0	1.0	.0	.0	.0	8.6	9.4
CALM	.0	20.0													.0	20.0	
TOTAL	.1	38.1	.1	42.9	.0	4.8	.0	2.9	.0	5.7	.0	2.9	.0	2.9	.2	100	7.6

TVC TRAVERSE CITY, MI

CEILING-VISIBILITY

CLASS 6 /NIGHT

WIND GRAPH



CEILING-VISIBILITY WIND TABULATIONS

ANNUAL

STATION NAME: TVC TRAVERSE CITY, MI

PERIOD: 1949-1978

CLASS 6 / NIGHT

STATION NUMBER: 14850

NO. OBS.: 160

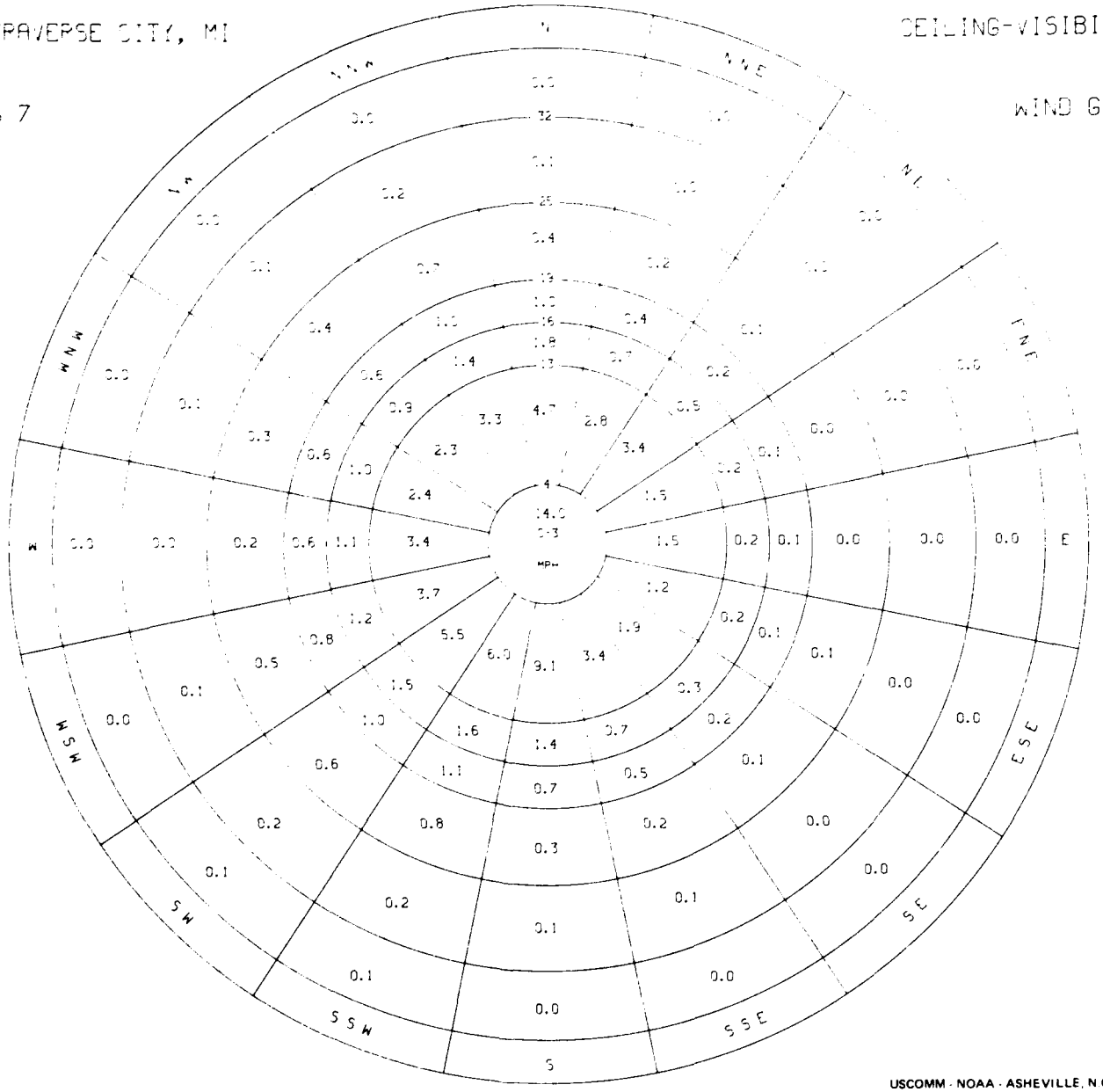
DIR	SPEED GROUPS (MPH)																AVG WIND SPEED
	0-3		4-12		13-15		16-18		19-24		25-31		32+		TOTAL		
	A	B	A	B	A	B	A	B	A	B	A	B	A	B	C	D	
N	.0	2.5	.0	3.1	.0	.6	.0	.6	.0	.6	.0	1.2	.0	.6	.0	9.4	12.9
NNE	.0	1.2	.0	2.5	.0	.0	.0	.6	.0	.0	.0	.6	.0	.0	.0	5.0	9.7
NE	.0	2.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	5.1
ENE	.0	.6	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.9	8.7
E	.0	.0	.0	1.2	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	1.9	10.3
ESE	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	3.0
SE	.0	1.2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.2	2.5
SSE	.0	.6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.6	2.0
S	.0	3.7	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.1	5.1
SSW	.0	.6	.0	4.4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	6.3
SW	.0	2.5	.0	3.1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.6	4.3
WSW	.0	1.2	.0	1.2	.0	.6	.0	.0	.0	.6	.0	.0	.0	.0	.0	3.7	8.7
W	.0	1.9	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	3.1	6.6
WNW	.0	.6	.0	.0	.0	.0	.0	.6	.0	.0	.0	.0	.0	.0	.0	1.2	9.0
NW	.0	3.1	.0	.6	.0	.0	.0	.6	.0	.6	.0	.6	.0	.0	.0	5.6	9.5
NNW	.0	2.5	.0	3.1	.0	1.9	.0	1.2	.0	.6	.0	1.2	.0	.0	.0	10.6	11.6
CALM	.1	30.6													.1	30.6	
TOTAL	.2	56.3	.1	28.1	.0	3.1	.0	4.4	.0	3.7	.0	3.7	.0	.6	.4	100	5.8

IVC TRAVERSE CITY, MI

CEILING-VISIBILITY

CLASS 7

WIND GRAPH



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