# REPORT No. 93

## AERODYNAMIC CHARACTERISTICS OF AEROFOILS

BY NATIONAL ADVISORY
COMMITTEE FOR AERONAUTICS

# REPORT No. 93.

## AERODYNAMIC CHARACTERISTICS OF AEROFOILS.

By National Advisory Committee for Aeronautics.

### INTRODUCTION.

This collection of data on aerofoils has been made from the published reports of a number of the leading aerodynamic laboratories of this country and Europe. The information which was originally expressed according to the different customs of the several laboratories is here presented in a uniform series of charts and tables suitable for the use of designing engineers and for purposes of general reference.

It is a well-known fact that the results obtained in different laboratories, because of their individual methods of testing, are not strictly comparable even if proper scale corrections for size of model and speed of test are supplied. It is, therefore, unwise to compare too closely the coefficients of two wing sections tested in different laboratories. Tests of different wing sections from the same source, however, may be relied on to give true relative values.

The absolute system of coefficients has been used, since it is thought by the National Advisory Committee for Aeronautics that this system is the one most suited for international use, and yet is one for which a desired transformation can be easily made. For this purpose a set of transformation constants is included in this report.

Each aerofoil section is given a reference number, and the test data are presented in the form of curves from which the coefficients can be read with sufficient accuracy for design purposes. The dimensions of the profile of each section are given at various stations along the chord in per cent of the chord, using as datum the line shown on the curves. The shape of the section is also shown in reasonable accuracy to enable one to more clearly visualize the section under consideration, together with its characteristics. To obtain more accurately the dimensions of the profile of each section, a separate data sheet for each section has been included which gives an additional decimal place for the greater portion of the ordinates.

The authority for the results here presented is given as the name of the laboratory at which the experiments were conducted, with the size of model, wind velocity, and date of test.

### TRANSFORMATION COEFFICIENTS.

For the convenience of those who prefer to use a system of units other than the absolute system there is given below a table of transformation constants based on the standard condition adopted by the National Advisory Committee for Aeronautics of:

| | |
|---|---|
| Temperature | = 15° C. |
| Pressure | = 760 mm. Hg. |
| Humidity | = 0. |
| Gravity | = 9.80 m./sec.$^2$ = 32.2 ft./sec.$^2$ |

thus giving values of specific weight of air

$$W = 0.1225 \text{ kg./m.}^3 = 0.07636 \text{ lbs./ft.}^3$$

and of density

$\sigma = 0.01250$ in the French engineering or kilogram, meter, second system.

or

$= 0.00238$ in the English or foot, pound, second system.

| | |
|---|---|
| In absolute units | $P = C\sigma V^2$. |
| In kg./m.$^2$ —— m./sec. | $P = .1250\ CV^2$. |
| In kg./m.$^2$ —— km./hr. | $P = .009645\ CV^2$. |
| In lbs./sq. ft. —— ft./sec. | $P = .002378\ CV^2$. |
| In lbs./sq. ft. —— mi./hr. | $P = .005116\ CV^2$. |

## INDEX.

Three separate types of index are given; chart indexes which make it possible for a designer to select the wing section most suitable for the particular design in which he is interested; a group index which is arranged in the same order as the curve sheets, i. e., by countries and laboratories at which tests were conducted, each section also being designated by a reference number; and an alphabetical index.

## CHART INDEX.

In order that the designer may easily pick out a wing section which is suited to the type of machine on which he is working, four index charts are given which classify the wings according to their aerodynamic and structural properties.

In Chart No. 1 the minimum drag is plotted against the $L/D$ at one-fourth the maximum lift. This chart should be used in choosing a wing section for a high-speed machine, the wing sections being more suited for this use the farther they are from the lower left-hand corner.

In Chart No. 2 the mean spar depth is plotted against the maximum lift in order to show the possible strength and lightness of the wing structure. The higher the maximum lift coefficient is the smaller will be the wing area and the lighter the structural weight, and in the same way the greater the depth of the spars the lighter will be their weight, so that the sections the greatest distance from the lower left-hand corner will give the lightest and strongest wings.

The maximum $L/D$ is plotted against the maximum lift in Chart No. 3, which is of use in choosing the wing section for a slow and efficient machine. In the same way as before, the sections farthest from the lower left-hand corner are the best for this purpose.

In Chart No. 4 the $L/D$ at two-thirds the maximum lift is plotted against the maximum lift, so that this chart can be used for choosing a section that will give an efficient climb or a long range at cruising speed. The best sections for this purpose will be the farthest from the lower left-hand corner of the chart.

# GROUP INDEX.

## UNITED STATES.

| Aerofoil. | Wind tunnel. | Report reference No. | Aerofoil. | Wind tunnel. | Report reference No. |
|---|---|---|---|---|---|
| U. S. A. 1 | M. I. T. | 1 | U. S. A. T. S. 7 | M. I. T. | 30 |
| U. S. A. 2 | M. I. T. | 2 | U. S. A. T. S. 8 | M. I. T. | 31 |
| U. S. A. 3 | M. I. T. | 3 | U. S. A. T. S. 9 | M. I. T. | 32 |
| U. S. A. 4 | M. I. T. | 4 | U. S. A. T. S. 10 | M. I. T. | 33 |
| U. S. A. 5 | M. I. T. | 5 | U. S. A. T. S. 11 | M. I. T. | 34 |
| U. S. A. 6 | M. I. T. | 6 | U. S. A. T. S. 12 | M. I. T. | 35 |
| U. S. A. 7 | M. I. T. | 7 | U. S. A. T. S. 13 | M. I. T. | 36 |
| U. S. A. 8 | M. I. T. | 8 | U. S. A. T. S. 14 | M. I. T. | 37 |
| U. S. A. 9 | M. I. T. | 9 | U. S. A. T. S. 15 | M. I. T. | 38 |
| U. S. A. 10 | M. I. T. | 10 | U. S. A. T. S. 16 | M. I. T. | 39 |
| U. S. A. 11 | M. I. T. | 11 | U. S. A. T. S. 17 | M. I. T. | 40 |
| U. S. A. 12 | M. I. T. | 12 | U. S. A. T. S. 18 | M. I. T. | 41 |
| U. S. A. 14 | M. I. T. | 13 | Durand Propeller No. 4 | M. I. T. | 42 |
| U. S. A. 15 | M. I. T. | 14 | Durand Propeller No. 7 | M. I. T. | 43 |
| U. S. A. 16 | M. I. T. | 15 | Durand Propeller No. 10 | M. I. T. | 44 |
| U. S. A. 17 | M. I. T. | 16 | Durand Propeller No. 13 | M. I. T. | 45 |
| U. S. A. 18 | M. I. T. | 17 | Durand Propeller No. 16 | M. I. T. | 46 |
| U. S. A. 19 | M. I. T. | 18 | Offenstein | M. I. T. | 47 |
| U. S. A. 20 | M. I. T. | 19 | Offenstein (modified) | M. I. T. | 48 |
| U. S. A. 21 | M. I. T. | 20 | Spad | M. I. T. | 49 |
| U. S. A. 23 | M. I. T. | 21 | Standard Aircraft Corp. No. 48 | M. I. T. | 50 |
| U. S. A. 24 | M. I. T. | 22 | V. E. Clark | M. I. T. | 51 |
| U. S. D. 9A | M. I. T. | 23 | W-1 | M. I. T. | 52 |
| U. S. A. T. S. 1 | M. I. T. | 24 | Navy Yard 1 | W. N. Y. | 53 |
| U. S. A. T. S. 2 | M. I. T. | 25 | Navy Yard 2 | W. N. Y. | 54 |
| U. S. A. T. S. 3 | M. I. T. | 26 | Navy Yard 3 | W. N. Y. | 55 |
| U. S. A. T. S. 4 | M. I. T. | 27 | Navy Yard 4 | W. N. Y. | 56 |
| U. S. A. T. S. 5 | M. I. T. | 28 | | W. N. Y. | 57 |
| U. S. A. T. S. 6 | M. I. T. | 29 | | | |

## BRITISH.

| | | | | | |
|---|---|---|---|---|---|
| R. A. F. 3 | N. P. L. | 58 | Naylor & Griffiths 8 | N. P. L. | 86 |
| R. A. F. 4 | N. P. L. | 59 | Naylor & Griffiths 9 | N. P. L. | 87 |
| R. A. F. 5 | N. P. L. | 60 | Naylor & Griffiths 10 | N. P. L. | 88 |
| R. A. F. 6 | N. P. L. | 61 | Naylor & Griffiths 11 | N. P. L. | 89 |
| R. A. F. 6 (modified) | N. P. L. | 62 | Naylor & Griffiths 12 | N. P. L. | 90 |
| R. A. F. 6a | N. P. L. | 63 | Naylor & Griffiths 13 | N. P. L. | 91 |
| R. A. F. 6c | N. P. L. | 64 | Naylor & Griffiths 14 | N. P. L. | 92 |
| R. A. F. 6c (both surfaces) | N. P. L. | 65 | Naylor & Griffiths 15 | N. P. L. | 93 |
| R. A. F. 8 | N. P. L. | 66 | Naylor & Griffiths 16 | N. P. L. | 94 |
| R. A. F. 9 | N. P. L. | 67 | Naylor & Griffiths 17 | N. P. L. | 95 |
| R. A. F. 12 | N. P. L. | 68 | Naylor & Griffiths 18 | N. P. L. | 96 |
| R. A. F. 13 | N. P. L. | 69 | Naylor & Griffiths 19 | N. P. L. | 97 |
| R. A. F. 14 | N. P. L. | 70 | Naylor & Griffiths 20 | N. P. L. | 98 |
| R. A. F. 14 (modified) | N. P. L. | 71 | Naylor & Griffiths 21 | N. P. L. | 99 |
| R. A. F. 15 | N. P. L. | 72 | Naylor & Griffiths 22 | N. P. L. | 100 |
| R. A. F. 15 (modified) | N. P. L. | 73 | Naylor & Griffiths 23 | N. P. L. | 101 |
| R. A. F. 16 | N. P. L. | 74 | Naylor & Griffiths 24 | N. P. L. | 102 |
| R. A. F. 17 | N. P. L. | 75 | Naylor & Griffiths 25 | N. P. L. | 103 |
| R. A. F. 18 | N. P. L. | 76 | Naylor & Griffiths 26 | N. P. L. | 104 |
| R. A. F. 19 | N. P. L. | 77 | Naylor & Griffiths 27 | N. P. L. | 105 |
| R. A. F. 20 | N. P. L. | 78 | Naylor & Griffiths 28 | N. P. L. | 106 |
| Naylor & Griffiths 1 | N. P. L. | 79 | Naylor & Griffiths 29 | N. P. L. | 107 |
| Naylor & Griffiths 2 | N. P. L. | 80 | Naylor & Griffiths 30 | N. P. L. | 108 |
| Naylor & Griffiths 3 | N. P. L. | 81 | Naylor & Griffiths 31 | N. P. L. | 109 |
| Naylor & Griffiths 4 | N. P. L. | 82 | A. D. No. 1 | N. P. L. | 110 |
| Naylor & Griffiths 5 | N. P. L. | 83 | A. D. No. 4 | N. P. L. | 111 |
| Naylor & Griffiths 6 | N. P. L. | 84 | N. P. L. 64 | N. P. L. | 112 |
| Naylor & Griffiths 7 | N. P. L. | 85 | Albatross | N. P. L. | 113 |

BRITISH—Continued.

| Aerofoil. | Wind tunnel. | Report reference No. | Aerofoil. | Wind tunnel. | Report reference No. |
|---|---|---|---|---|---|
| Avro | N. P. L. | 114 | N. P. L. 73 | N. P. L. | 135 |
| Bristol | N. P. L. | 115 | N. P. L. 214 | N. P. L. | 136 |
| B. I. R. 1a | N. P. L. | 116 | Portholme | N. P. L. | 137 |
| B. I. R. 3 | N. P. L. | 117 | Scout E | N. P. L. | 138 |
| B. I. R. 33a | N. P. L. | 118 | Sopwith | N. P. L. | 139 |
| Curtiss | N. P. L. | 119 | White | N. P. L. | 140 |
| DeH-2 | N. P. L. | 120 | Cowley & Levy—A. 1 | N. P. L. | 141 |
| DeH-3 | N. P. L. | 121 | Cowley & Levy—A. 2 | N. P. L. | 142 |
| F. 2. B | N. P. L. | 122 | Cowley & Levy—A. 3 | N. P. L. | 143 |
| Fairey | N. P. L. | 123 | Cowley & Levy—A. 4 | N. P. L. | 144 |
| Handley Page 166 | N. P. L. | 124 | Cowley & Levy—A. 5 | N. P. L. | 145 |
| Handley Page 166a | N. P. L. | 125 | Cowley & Levy—A. 6 | N. P. L. | 146 |
| Handley Page 166b | N. P. L. | 126 | Cowley & Levy—A. 7 | N. P. L. | 147 |
| Handley Page 166c | N. P. L. | 127 | Cowley & Levy—B. 1 | N. P. L. | 148 |
| N. P. L. 4 | N. P. L. | 128 | Cowley & Levy—B. 2 | N. P. L. | 149 |
| N. P. L. 4a | N. P. L. | 129 | Cowley & Levy—B. 3 | N. P. L. | 150 |
| N. P. L. 4b | N. P. L. | 130 | Cowley & Levy—B. 4 | N. P. L. | 151 |
| N. P. L. 4c | N. P. L. | 131 | Cowley & Levy—B. 5 | N. P. L. | 152 |
| N. P. L. 4c$\alpha$ | N. P. L. | 132 | Cowley & Levy—B. 6 | N. P. L. | 153 |
| N. P. L 4c$\beta$ | N. P. L. | 133 | Cowley & Levy—B. 7 | N. P. L. | 154 |
| N. P. L. 4c$\gamma$ | N. P. L. | 134 | | | |

FRENCH.

| | | | | | |
|---|---|---|---|---|---|
| Eiffel 8 | Eiffel | 155 | Eiffel 43 | Eiffel | 184 |
| Eiffel 9 | Eiffel | 156 | Eiffel 44 (Voisin) | Eiffel | 185 |
| Eiffel 10 | Eiffel | 157 | Eiffel 45 (Buch) | Eiffel | 186 |
| Eiffel 11 | Eiffel | 158 | Eiffel 46 (Buch) | Eiffel | 187 |
| Eiffel 12 (M. Farman) | Eiffel | 159 | Eiffel 47 (Howard-Wright) | Eiffel | 188 |
| Eiffel 13 (Bleriot 11) | Eiffel | 160 | Eiffel 48 (Howard-Wright) | Eiffel | 189 |
| Eiffel 13 bis (Bleriot 11a) | Eiffel | 161 | Eiffel 49 (Howard-Wright) | Eiffel | 190 |
| Eiffel 14 (Breguet) | Eiffel | 162 | Eiffel 52 (Nieuport) | Eiffel | 181 |
| Eiffel 15 (M. Ernoult) | Eiffel | 163 | Eiffel 53 (Nieuport) | Eiffel | 192 |
| Eiffel 16 (M. Drzewiecki) | Eiffel | 164 | Eiffel 54 (Deperdussin) | Eiffel | 193 |
| Eiffel 16a | Eiffel | 165 | Eiffel 55 (Deperdussin) | Eiffel | 194 |
| Eiffel 16b | Eiffel | 166 | Eiffel 56 (Deperdussin) | Eiffel | 195 |
| Eiffel 16c | Eiffel | 167 | Eiffel 57 | Eiffel | 196 |
| Eiffel 16d | Eiffel | 168 | Eiffel 58 | Eiffel | 197 |
| Eiffel 17 (M. Drzewiecki) | Eiffel | 169 | Eiffel 59 | Eiffel | 198 |
| Eiffel 18 (M. Drzewiecki) | Eiffel | 170 | Eiffel 60 | Eiffel | 199 |
| Eiffel 30 | Eiffel | 171 | Eiffel 61 | Eiffel | 200 |
| Eiffel 31 | Eiffel | 172 | Eiffel 62 | Eiffel | 201 |
| Eiffel 32 (Lanier-Lawrance) | Eiffel | 173 | Dorand | Eiffel | 202 |
| Eiffel 33 (Breguet) | Eiffel | 174 | Halbroun 2 | Eiffel | 203 |
| Eiffel 34 (Colliex) | Eiffel | 175 | Halbroun 3 | Eiffel | 204 |
| Eiffel 35 (Dorand) | Eiffel | 176 | S. E. A | Eiffel | 205 |
| Eiffel 36 (Odier) | Eiffel | 177 | St. Cyr 1 | Eiffel | 206 |
| Eiffel 37 (Kauffmann) | Eiffel | 178 | St. Cyr 2 | Eiffel | 207 |
| Eiffel 38 (Coanda) | Eiffel | 179 | St. Cyr 3 | Eiffel | 208 |
| Eiffel 39 (16b modified) | Eiffel | 180 | Turin 1 | Eiffel | 209 |
| Eiffel 40 | Eiffel | 181 | Turin 2 | Eiffel | 210 |
| Eiffel 41 | Eiffel | 182 | Bleriot Triplane | Eiffel | 211 |
| Eiffel 42 | Eiffel | 183 | | | |

MISCELLANEOUS.

| | | | | | |
|---|---|---|---|---|---|
| Italian 1 | Crocco | 212 | Italian 3 | Crocco | 214 |
| Italian 2 | Crocco | 213 | | | |

# ALPHABETICAL INDEX.


| Aerofoil. | Report reference No. |
|---|---|
| A. D. No. 1 | 110 |
| A. D. No. 4 | 111 |
| Albatross | 113 |
| Avro | 114 |
| B. I. R. 1a | 116 |
| B. I. R. 3 | 117 |
| B. I. R. 33a | 118 |
| Bleriot Triplane | 211 |
| Bristol | 115 |
| Clark, V. E | 51 |
| Cowley & Levy—A. 1 | 141 |
| Cowley & Levy—A. 2 | 142 |
| Cowley & Levy—A. 3 | 143 |
| Cowley & Levy—A. 4 | 144 |
| Cowley & Levy—A. 5 | 145 |
| Cowley & Levy—A. 6 | 146 |
| Cowley & Levy—A. 7 | 147 |
| Cowley & Levy—B. 1 | 148 |
| Cowley & Levy—B. 2 | 149 |
| Cowley & Levy—B. 3 | 150 |
| Cowley & Levy—B. 4 | 151 |
| Cowley & Levy—B. 5 | 152 |
| Cowley & Levy—B. 6 | 153 |
| Cowley & Levy—B. 7 | 154 |
| Curtiss | 119 |
| DeH-2 | 120 |
| DeH-3 | 121 |
| Dorand | 202 |
| Durand Propeller No. 4 | 42 |
| Durand Propeller No. 7 | 43 |
| Durand Propeller No. 10 | 44 |
| Durand Propeller No. 13 | 45 |
| Durand Propeller No. 16 | 46 |
| Eiffel 8 | 155 |
| Eiffel 9 | 156 |
| Eiffel 10 | 157 |
| Eiffel 11 | 158 |
| Eiffel 12 (M. Farman) | 159 |
| Eiffel 13 (Bleriot 11) | 160 |
| Eiffel 13 bis (Bleriot 11a) | 161 |
| Eiffel 14 (Breguet) | 162 |
| Eiffel 15 (M. Ernoult) | 163 |
| Eiffel 16 (M. Drzewiecki) | 164 |
| Eiffel 16a | 165 |
| Eiffel 16b | 166 |
| Eiffel 16c | 167 |
| Eiffel 16d | 168 |
| Eiffel 17 (M. Drzewiecki) | 169 |
| Eiffel 18 (M. Drzewiecki) | 170 |
| Eiffel 30 | 171 |
| Eiffel 31 | 172 |
| Eiffel 32 (Lanier-Lawrance) | 173 |
| Eiffel 33 (Breguet) | 174 |
| Eiffel 34 (Colliex) | 175 |
| Eiffel 35 (Dorand) | 176 |
| Eiffel 36 (Odier) | 177 |
| Eiffel 37 (Kauffmann) | 178 |
| Eiffel 38 (Coanda) | 179 |
| Eiffel 39 (16b Modified) | 180 |
| Eiffel 40 | 181 |
| Eiffel 41 | 182 |
| Eiffel 42 | 183 |
| Eiffel 43 | 184 |
| Eiffel 44 (Voisin) | 185 |
| Eiffel 45 (Buch) | 186 |
| Eiffel 46 (Buch) | 187 |
| Eiffel 47 (Howard-Wright) | 188 |
| Eiffel 48 (Howard-Wright) | 189 |
| Eiffel 49 (Howard-Wright) | 190 |
| Eiffel 52 (Nieuport) | 191 |
| Eiffel 53 (Nieuport) | 192 |
| Eiffel 54 (Deperdussin) | 193 |
| Eiffel 55 (Deperdussin) | 194 |
| Eiffel 56 (Deperdussin) | 195 |
| Eiffel 57 | 196 |
| Eiffel 58 | 197 |
| Eiffel 59 | 198 |
| Eiffel 60 | 199 |
| Eiffel 61 | 200 |
| Eiffel 62 | 201 |
| F. 2 B | 122 |
| Fairey | 123 |
| Halbronn 2 | 203 |
| Halbronn 3 | 204 |
| Handley Page 166 | 124 |
| Handley Page 166a | 125 |
| Handley Page 166b | 126 |
| Handley Page 166c | 127 |
| Italian 1 | 212 |
| Italian 2 | 213 |
| Italian 3 | 214 |
| N. P. L. 4 | 128 |
| N. P. L. 4a | 129 |
| N. P. L. 4b | 130 |
| N. P. L. 4c | 131 |
| N. P. L. 4cα | 132 |
| N. P. L. 4cβ | 133 |
| N. P. L. 4cγ | 134 |
| N. P. L. 64 | 112 |
| N. P. L. 73 | 135 |
| N. P. L. 214 | 136 |
| Naylor & Griffiths 1 | 79 |
| Naylor & Griffiths 2 | 80 |
| Naylor & Griffiths 3 | 81 |
| Naylor & Griffiths 4 | 82 |
| Naylor & Griffiths 5 | 83 |
| Naylor & Griffiths 6 | 84 |
| Naylor & Griffiths 7 | 85 |
| Naylor & Griffiths 8 | 86 |
| Naylor & Griffiths 9 | 87 |
| Naylor & Griffiths 10 | 88 |
| Naylor & Griffiths 11 | 89 |
| Naylor & Griffiths 12 | 90 |
| Naylor & Griffiths 13 | 91 |
| Naylor & Griffiths 14 | 92 |
| Naylor & Griffiths 15 | 93 |
| Naylor & Griffiths 16 | 94 |
| Naylor & Griffiths 17 | 95 |
| Naylor & Griffiths 18 | 96 |
| Naylor & Griffiths 19 | 97 |
| Naylor & Griffiths 20 | 98 |
| Naylor & Griffiths 21 | 99 |
| Naylor & Griffiths 22 | 100 |
| Naylor & Griffiths 23 | 101 |
| Naylor & Griffiths 24 | 102 |
| Naylor & Griffiths 25 | 103 |
| Naylor & Griffiths 26 | 104 |
| Naylor & Griffiths 27 | 105 |
| Naylor & Griffiths 28 | 106 |

| Aerofoil. | Report reference No. | Aerofoil. | Report reference No. |
|---|---|---|---|
| Naylor & Griffiths 29 | 107 | U. S. A. 6 | 6 |
| Naylor & Griffiths 30 | 108 | U. S. A. 7 | 7 |
| Naylor & Griffiths 31 | 109 | U. S. A. 8 | 8 |
| Offenstein | 47 | U. S. A. 9 | 9 |
| Offenstein (modified) | 48 | U. S. A. 10 | 10 |
| Portholme | 137 | U. S. A. 11 | 11 |
| R. A. F. 3 | 58 | U. S. A. 12 | 12 |
| R. A. F. 4 | 59 | U. S. A. 14 | 13 |
| R. A. F. 5 | 60 | U. S. A. 15 | 14 |
| R. A. F. 6 | 61 | U. S. A. 16 | 15 |
| R. A. F. 6 (modified) | 62 | U. S. A. 17 | 16 |
| R. A. F. 6a | 63 | U. S. A. 18 | 17 |
| R. A. F. 6c | 64 | U. S. A. 19 | 18 |
| R. A. F. 6c (both surfaces) | 65 | U. S. A. 20 | 19 |
| R. A. F. 8 | 66 | U. S. A. 21 | 20 |
| R. A. F. 9 | 67 | U. S. A. 23 | 21 |
| R. A. F. 12 | 68 | U. S. A. 24 | 22 |
| R. A. F. 13 | 69 | U. S. A. T. S. 1 | 24 |
| R. A. F. 14 | 70 | U. S. A. T. S. 2 | 25 |
| R. A. F. 14 (modified) | 71 | U. S. A. T. S. 3 | 26 |
| R. A. F. 15 | 72 | U. S. A. T. S. 4 | 27 |
| R. A. F. 15 (modified) | 73 | U. S. A. T. S. 5 | 28 |
| R. A. F. 16 | 74 | U. S. A. T. S. 6 | 29 |
| R. A. F. 17 | 75 | U. S. A. T. S. 7 | 30 |
| R. A. F. 18 | 76 | U. S. A. T. S. 8 | 31 |
| R. A. F. 19 | 77 | U. S. A. T. S. 9 | 32 |
| R. A. F. 20 | 78 | U. S. A. T. S. 10 | 33 |
| S. E. A | 205 | U. S. A. T. S. 11 | 34 |
| St.-Cyr 1 | 206 | U. S. A. T. S. 12 | 35 |
| St.-Cyr 2 | 207 | U. S. A. T. S. 13 | 36 |
| St.-Cyr 3 | 208 | U. S. A. T. S. 14 | 37 |
| Scout E | 138 | U. S. A. T. S. 15 | 38 |
| Sloane | 57 | U. S. A. T. S. 16 | 39 |
| Sopwith | 139 | U. S. A. T. S. 17 | 40 |
| Spad | 49 | U. S. A. T. S. 18 | 41 |
| Standard Aircraft Corp. 48 | 209 | U. S. D. 9A | 23 |
| Turin 1 | 209 | W-1 | 52 |
| Turin 2 | 210 | Washington Navy Yard 1 | 53 |
| U. S. A. 1 | 1 | Washington Navy Yard 2 | 54 |
| U. S. A. 2 | 2 | Washington Navy Yard 3 | 55 |
| U. S. A. 3 | 3 | Washington Navy Yard 4 | 56 |
| U. S. A. 4 | 4 | White | 140 |
| U. S. A. 5 | 5 | | |

The following tables have been prepared to give additional decimal places for the greater portion of the ordinates:

| Per cent of chord. | Ref. No. 1. U. S. A. 1. Ordinates. Upper. | Ref. No. 1. U. S. A. 1. Ordinates. Lower. | Ref. No. 2. U. S. A. 2. Ordinates. Upper. | Ref. No. 2. U. S. A. 2. Ordinates. Lower. |
|---|---|---|---|---|
| 0 | 1.22 | 0.81 | 0.80 | 0.0 |
| 1.25 | 2.56 | 0.42 | 1.80 | 0.27 |
| 2.5 | 3.44 | 0.19 | 2.98 | 0.49 |
| 5 | 4.77 | 0.0 | 4.38 | 0.88 |
| 7.5 | 5.58 | 0.12 | 5.50 | 1.23 |
| 10 | 6.11 | 0.39 | 6.38 | 1.51 |
| 15 | 6.80 | 0.90 | 7.65 | 1.94 |
| 20 | 7.28 | 1.60 | 8.37 | 2.23 |
| 30 | 7.61 | 2.27 | 8.80 | 2.57 |
| 40 | 7.55 | 2.28 | 8.50 | 2.73 |
| 50 | 7.11 | 1.72 | 7.85 | 2.53 |
| 60 | 6.36 | 1.04 | 6.88 | 1.95 |
| 70 | 5.32 | 0.34 | 5.62 | 1.27 |
| 80 | 3.90 | 0.0 | 4.12 | 0.72 |
| 90 | 2.47 | 0.03 | 2.48 | 0.30 |
| 95 | 1.50 | 0.23 | 1.50 | 0.15 |
| 100 | 0.83 | 0.49 | 0.70 | 0.0 |

| Per cent of chord. | Ref. No. 3. U. S. A. 3. Ordinates. Upper. | Ref. No. 3. U. S. A. 3. Ordinates. Lower. | Ref. No. 4. U. S. A. 4. Ordinates. Upper. | Ref. No. 4. U. S. A. 4. Ordinates. Lower. | Ref. No. 5. U. S. A. 5. Ordinates. Upper. | Ref. No. 5. U. S. A. 5. Ordinates. Lower. | Ref. No. 6. U. S. A. 6. Ordinates. Upper. | Ref. No. 6. U. S. A. 6. Ordinates. Lower. |
|---|---|---|---|---|---|---|---|---|
| 0 | 0.79 | 0.0 | 0.81 | 0.0 | 0.73 | 0.33 | 0.72 | 0.72 |
| 1.25 | 1.87 | 0.13 | 2.43 | 0.25 | 2.10 | 0.17 | 1.77 | 0.08 |
| 2.5 | 2.64 | 0.30 | 3.44 | 0.51 | 3.03 | 0.03 | 2.39 | 0.0 |
| *5 | 3.91 | 0.62 | 4.88 | 1.07 | 4.40 | 0.03 | 3.49 | 0.086 |
| 7.5 | 5.00 | 0.90 | 6.00 | 1.47 | 5.40 | 0.25 | 4.41 | 0.32 |
| 10 | 5.98 | 1.15 | 6.83 | 1.82 | 6.20 | 0.57 | 5.13 | 0.63 |
| 15 | 7.30 | 1.65 | 7.87 | 2.35 | 7.16 | 1.10 | 6.12 | 1.25 |
| 20 | 8.20 | 1.87 | 8.57 | 2.57 | 7.92 | 1.55 | 6.90 | 1.97 |
| 30 | 8.68 | 2.30 | 8.90 | 2.83 | 8.30 | 2.02 | 7.40 | 2.77 |
| 40 | 8.44 | 2.50 | 8.57 | 2.93 | 8.14 | 2.17 | 7.36 | 2.90 |
| 50 | 7.75 | 2.33 | 7.82 | 2.63 | 7.55 | 1.96 | 6.85 | 2.52 |
| 60 | 6.80 | 1.78 | 6.90 | 1.98 | 6.75 | 1.55 | 6.03 | 1.93 |
| 70 | 5.57 | 1.15 | 5.60 | 1.22 | 5.63 | 1.16 | 4.91 | 1.32 |
| 80 | 4.08 | 0.63 | 4.08 | 0.62 | 4.24 | 0.76 | 3.52 | 0.72 |
| 90 | 2.39 | 0.33 | 2.32 | 0.30 | 2.52 | 0.55 | 2.01 | 0.12 |
| 95 | 1.55 | 0.15 | 1.45 | 0.18 | 1.50 | 0.35 | 1.15 | 0.0 |
| 100 | 0.69 | 0.0 | 0.71 | 0.0 | 0.50 | 0.0 | 0.29 | 0.29 |
| *3.5 | ..... | ..... | ..... | ..... | ..... | 0.0 | ..... | ..... |

| Per cent of chord. | Ref. No. 7. U. S. A. 7. Ordinates. Upper. | Ref. No. 7. U. S. A. 7. Ordinates. Lower. | Ref. No. 8. U. S. A. 8. Ordinates. Upper. | Ref. No. 8. U. S. A. 8. Ordinates. Lower. | Ref. No. 9. U. S. A. 9. Ordinates. Upper. | Ref. No. 9. U. S. A. 9. Ordinates. Lower. | Ref. No. 10. U. S. A. 10. Ordinates. Upper. | Ref. No. 10. U. S. A. 10. Ordinates. Lower. |
|---|---|---|---|---|---|---|---|---|
| 0 | 1.25 | 0.0 | 1.25 | 0.0 | 1.25 | 0.0 | 1.25 | 0.0 |
| 1.25 | 3.40 | −1.07 | 4.65 | −0.38 | 3.25 | 0.0 | 2.43 | 0.0 |
| 2.5 | 5.38 | −1.58 | 6.33 | −0.58 | 4.58 | 0.0 | 3.43 | 0.0 |
| 5 | 8.70 | −2.32 | 8.73 | −0.81 | 6.35 | 0.0 | 4.50 | 0.0 |
| 7.5 | 11.39 | −2.80 | 10.21 | −0.95 | 7.47 | 0.0 | 5.73 | 0.0 |
| 10 | 13.28 | −3.13 | 11.25 | −1.05 | 8.22 | 0.0 | 6.32 | 0.0 |
| 15 | 16.00 | −3.65 | 12.45 | −1.15 | 9.15 | 0.0 | 6.90 | 0.0 |
| 20 | 17.93 | −3.80 | 13.33 | −1.22 | 9.70 | 0.0 | 7.27 | 0.0 |
| 30 | 20.00 | −4.02 | 13.93 | −1.29 | 10.07 | 0.0 | 7.50 | 0.0 |
| 40 | 20.50 | −3.87 | 13.80 | −1.28 | 10.00 | 0.0 | 7.45 | 0.0 |
| 50 | 19.33 | −3.52 | 13.00 | −1.20 | 9.47 | 0.0 | 7.10 | 0.0 |
| 60 | 17.23 | −3.03 | 11.63 | −1.09 | 8.43 | 0.0 | 6.43 | 0.0 |
| 70 | 14.37 | −2.50 | 9.74 | −0.91 | 7.12 | 0.0 | 5.38 | 0.0 |
| 80 | 10.60 | −1.92 | 7.28 | −0.66 | 5.56 | 0.0 | 4.20 | 0.0 |
| 90 | 6.25 | −1.17 | 4.50 | −0.40 | 3.62 | 0.0 | 2.92 | 0.0 |
| 95 | 3.95 | −0.75 | 2.95 | −0.15 | 2.60 | 0.0 | 2.23 | 0.0 |
| 100 | 1.50 | 0.0 | 1.40 | 0.0 | 1.50 | 0.0 | 1.50 | 0.0 |

| Per cent of chord. | Ref. No. 11. U. S. A. 11. Ordinates. Upper. | Ref. No. 11. U. S. A. 11. Ordinates. Lower. | Ref. No. 12. U. S. A. 12. Ordinates. Upper. | Ref. No. 12. U. S. A. 12. Ordinates. Lower. | Ref. No. 13. U. S. A. 14. Ordinates. Upper. | Ref. No. 13. U. S. A. 14. Ordinates. Lower. | Ref. No. 14. U. S. A. 15. Ordinates. Upper. | Ref. No. 14. U. S. A. 15. Ordinates. Lower. |
|---|---|---|---|---|---|---|---|---|
| 0 | 1.25 | 0.0 | 1.25 | 0.0 | 1.25 | 0.633 | 1.22 | 0.63 |
| 1.25 | 2.32 | 0.0 | 4.73 | 0.0 | 2.277 | 0.467 | 2.56 | 0.46 |
| 2.5 | 3.21 | 0.0 | 6.88 | 0.0 | 3.100 | 0.333 | 3.44 | 0.33 |
| 5 | 4.45 | 0.0 | 9.34 | 0.0 | 4.250 | 0.150 | 4.80 | 0.15 |
| 7.5 | 5.30 | 0.0 | 11.13 | 0.0 | 4.970 | 0.033 | 5.58 | 0.03 |
| 10 | 5.85 | 0.0 | 12.27 | 0.0 | 5.417 | 0.0 | 6.11 | 0.0 |
| 15 | 6.42 | 0.0 | 13.55 | 0.0 | 6.050 | 0.117 | 6.88 | 0.12 |
| 20 | 6.78 | 0.0 | 14.56 | 0.0 | 6.567 | 0.333 | 7.28 | 0.33 |
| 30 | 7.12 | 0.0 | 15.59 | 0.0 | 6.850 | 0.867 | 7.61 | 0.86 |
| 40 | 7.05 | 0.0 | 15.07 | 0.0 | 6.867 | 1.000 | 7.55 | 1.00 |
| 50 | 6.63 | 0.0 | 14.20 | 0.0 | 6.600 | 0.717 | 7.11 | 0.72 |
| 60 | 5.95 | 0.0 | 12.71 | 0.0 | 5.967 | 0.277 | 6.36 | 0.28 |
| 70 | 5.00 | 0.0 | 10.63 | 0.0 | 5.017 | 0.0 | 5.32 | 0.0 |
| 80 | 3.92 | 0.0 | 8.03 | 0.0 | 3.850 | 0.110 | 3.90 | 0.11 |
| 90 | 2.77 | 0.0 | 4.97 | 0.0 | 2.433 | 0.233 | 2.50 | 0.23 |
| 95 | 2.12 | 0.0 | 2.65 | 0.0 | 1.620 | 0.370 | 1.67 | 0.37 |
| 100 | 1.50 | 0.0 | 1.50 | 0.0 | 0.833 | 0.500 | 0.83 | 0.50 |

| Per cent of chord. | Ref. No. 15. | | Ref. No. 16. | | Ref. No. 17. | | Ref. No. 18. | |
|---|---|---|---|---|---|---|---|---|
| | U. S. A. 16. | | U. S. A. 17. | | U. S. A. 18. | | U. S. A. 19. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 1.07 | 1.070 | 0.75 | 0.0 |
| 1.25 | 2.10 | −0.42 | 1.60 | 0.40 | 1.80 | 0.467 | 1.80 | 0.10 |
| 2.5 | 2.99 | −0.64 | 2.55 | −0.64 | 2.98 | 0.339 | 2.40 | 0.00 |
| 5 | 3.88 | −0.76 | 3.70 | −0.70 | 4.38 | 0.150 | 3.47 | 0.10 |
| 7.5 | 4.52 | −0.83 | 4.46 | −0.76 | 5.50 | 0.033 | 4.35 | 0.30 |
| 10 | 4.95 | −0.83 | 4.90 | −0.83 | 6.38 | 0.000 | 5.07 | 0.55 |
| 15 | 5.42 | −0.76 | 5.42 | −0.96 | 7.65 | 0.117 | 6.11 | 1.25 |
| 20 | 5.67 | −0.51 | 5.67 | −1.02 | 8.37 | 0.333 | 6.73 | 1.77 |
| 30 | 5.86 | −0.06 | 5.80 | −1.08 | 8.80 | 0.867 | 7.17 | 2.45 |
| 40 | 5.74 | 0.0 | 5.60 | −1.15 | 8.50 | 1.000 | 6.97 | 2.50 |
| 50 | 5.29 | −0.19 | 5.23 | −1.09 | 7.85 | 0.717 | 6.37 | 1.90 |
| 60 | 4.65 | −0.70 | 4.65 | −1.02 | 6.88 | 0.277 | 5.40 | 1.20 |
| 70 | 4.01 | −0.76 | 4.01 | −0.89 | 5.62 | 0.000 | 4.17 | 0.47 |
| 80 | 3.25 | −0.70 | 3.06 | −0.76 | 4.12 | 0.110 | 3.17 | 0.03 |
| 90 | 2.23 | −0.446 | 1.97 | −0.57 | 2.48 | 0.233 | 2.18 | 0.29 |
| 95 | 1.37 | −0.27 | 1.10 | −0.35 | 1.50 | 0.370 | 2.00 | 0.58 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.74 | 0.740 | 1.50 | 0.0 |

| Per cent of chord. | Ref. No. 19. | | Ref. No. 20. | | Ref. No. 21. | | Ref. No. 22. | |
|---|---|---|---|---|---|---|---|---|
| | U. S. A. 20. | | U. S. A. 21. | | U. S. A. 23. | | U. S. A. 24. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 1.30 | 0.0 | 1.667 | 0.0 | 1.50 | 1.50 | 1.50 | 1.50 |
| 1.25 | 3.05 | 0.50 | 2.340 | 0.72 | 2.52 | 0.65 | 2.60 | 1.13 |
| 2.5 | 3.90 | 0.32 | 2.967 | 0.34 | 3.00 | 0.50 | 3.10 | 0.46 |
| 5 | 4.83 | 0.13 | 4.370 | 0.15 | 3.81 | 0.20 | 4.12 | 0.20 |
| 7.5 | 5.47 | 0.03 | 5.500 | 0.033 | 4.45 | 0.07 | 5.00 | 0.05 |
| 10 | 5.86 | 0.0 | 6.367 | 0.0 | 5.00 | 0.0 | 5.65 | 0.0 |
| 15 | 6.37 | 0.16 | 7.600 | 0.100 | 5.77 | 0.09 | 6.65 | 0.09 |
| 20 | 6.60 | 0.30 | 8.367 | 0.300 | 6.32 | 0.30 | 7.30 | 0.30 |
| 30 | 6.77 | 0.67 | 8.800 | 0.866 | 6.92 | 0.80 | 7.93 | 0.80 |
| 40 | 6.60 | 0.83 | 8.500 | 1.000 | 6.95 | 1.00 | 7.90 | 1.00 |
| 50 | 6.10 | 0.62 | 7.833 | 0.717 | 6.60 | 0.94 | 7.45 | 0.94 |
| 60 | 5.50 | 0.15 | 6.867 | 0.277 | 5.82 | 0.74 | 6.60 | 0.74 |
| 70 | 4.83 | 0.0 | 5.600 | 0.0 | 4.72 | 0.55 | 5.33 | 0.55 |
| 80 | 4.17 | 0.30 | 4.300 | 0.270 | 3.44 | 0.38 | 3.83 | 0.38 |
| 90 | 3.47 | 1.05 | 3.317 | 1.000 | 2.00 | 0.19 | 2.10 | 0.19 |
| 95 | 3.25 | 1.60 | 2.93 | 1.550 | 1.12 | 0.10 | 1.16 | 0.10 |
| 100 | 2.55 | 0.0 | 2.643 | 0.0 | 0.10 | 0.10 | 0.10 | 0.10 |

| Per cent of chord. | Ref. No. 23. | | Ref. No. 24. | | Ref. No. 25. | | Ref. No. 26. | |
|---|---|---|---|---|---|---|---|---|
| | U. S. D. 9A. | | U. S. A. T. S. 1. | | U. S. A. T. S. 2. | | U. S. A. T. S. 3. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 1.31 | 1.31 | 2.0 | +2.00 | 2.0 | +2.00 | 2.0 | 2.00 |
| 1.25 | 2.67 | 0.55 | 4.4 | −1.30 | 4.4 | 0.0 | 4.4 | 0.30 |
| 2.5 | 3.46 | 0.33 | 5.5 | −2.30 | 5.5 | −0.50 | 5.5 | 0.00 |
| 5 | 4.62 | 0.11 | 7.4 | −4.00 | 7.4 | −1.35 | 7.4 | 0.50 |
| 7.5 | 5.35 | 0.05 | 8.8 | −5.40 | 8.8 | −1.85 | 8.8 | 0.85 |
| 10 | 5.90 | 0.0 | 10.0 | −6.50 | 10.0 | −2.25 | 10.0 | 1.15 |
| 15 | 6.36 | 0.10 | 11.8 | −7.90 | 11.8 | −2.80 | 11.8 | 1.60 |
| 20 | 6.62 | 0.26 | 13.1 | −8.90 | 13.1 | −3.40 | 13.1 | 2.00 |
| 30 | 6.70 | 0.63 | 14.7 | −9.55 | 14.7 | −4.00 | 14.7 | 2.30 |
| 40 | 6.59 | 0.62 | 14.8 | −9.10 | 14.8 | −4.10 | 14.8 | 2.50 |
| 50 | 6.38 | 0.42 | 13.9 | −8.30 | 13.9 | −4.00 | 13.9 | 2.40 |
| 60 | 5.95 | 0.22 | 12.3 | −7.30 | 12.3 | −3.85 | 12.3 | 2.10 |
| 70 | 5.31 | 0.06 | 10.3 | −5.85 | 10.3 | −3.00 | 10.3 | 1.80 |
| 80 | 4.24 | 0.0 | 7.8 | −4.10 | 7.8 | −2.00 | 7.8 | 1.30 |
| 90 | 2.67 | 0.08 | 4.9 | −2.10 | 4.9 | −1.00 | 4.9 | 0.70 |
| 95 | 1.77 | 0.15 | 3.3 | −1.00 | 3.3 | −0.45 | 3.3 | 0.30 |
| 100 | 0.59 | 0.59 | 1.0 | +1.00 | 1.0 | +1.00 | 1.0 | 1.0 |

| Per cent of chord. | Ref. No. 27. | | Ref. No. 28. | | Ref. No. 29. | | Ref. No. 30. | |
|---|---|---|---|---|---|---|---|---|
| | U. S. A. T. S. 4. | | U. S. A. T. S. 5. | | U. S. A. T. S. 6. | | U. S. A. T. S. 7. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 2.0 | 2.00 | 2.0 | +2.00 | 2.0 | +2.00 | 2.0 | +2.00 |
| 1.25 | 4.4 | 0.45 | 4.4 | 0.0 | 4.4 | 0.10 | 4.4 | 0.60 |
| 2.5 | 5.5 | 0.20 | 5.5 | −0.80 | 5.5 | −0.40 | 5.5 | 0.0 |
| 5 | 7.4 | 0.80 | 7.4 | −1.80 | 7.4 | −0.75 | 7.4 | 0.20 |
| 7.5 | 8.8 | 1.30 | 8.8 | −2.50 | 8.8 | −1.10 | 8.8 | 0.5 |
| 10 | 10.0 | 1.80 | 10.0 | −3.00 | 10.0 | −1.45 | 10.0 | 0.74 |
| 15 | 11.8 | 2.65 | 11.8 | −3.40 | 11.8 | −1.80 | 11.8 | 1.00 |
| 20 | 13.1 | 3.20 | 13.1 | −3.50 | 13.1 | −2.00 | 13.1 | 1.25 |
| 30 | 14.7 | 3.90 | 14.7 | −2.90 | 14.7 | −2.10 | 14.7 | 1.47 |
| 40 | 14.8 | 3.90 | 14.8 | −1.50 | 14.8 | −1.35 | 14.8 | 1.00 |
| 50 | 13.9 | 3.60 | 13.9 | −0.65 | 13.9 | 0.0 | 13.9 | 0.0 |
| 60 | 12.3 | 3.10 | 12.3 | −0.30 | 12.3 | +1.00 | 12.3 | −1.20 |
| 70 | 10.3 | 2.65 | 10.3 | −0.20 | 10.3 | 1.40 | 10.3 | −2.00 |
| 80 | 7.8 | 2.00 | 7.8 | −0.10 | 7.8 | 1.35 | 7.8 | −2.50 |
| 90 | 4.9 | 1.00 | 4.9 | 0.0 | 4.9 | 0.80 | 4.9 | −1.90 |
| 95 | 3.3 | 0.70 | 3.3 | 0.0 | 3.3 | 0.50 | 3.3 | −1.20 |
| 100 | 1.2 | 1.20 | 1.0 | +1.00 | 1.0 | 1.00 | 1.0 | +1.00 |

| Per cent of chord. | Ref. No. 31. | | Ref. No. 32. | | Ref. No. 33. | | Ref. No. 34. | |
|---|---|---|---|---|---|---|---|---|
| | U. S. A. T. S. 8. | | U. S. A. T. S. 9. | | U. S. A. T. S. 10. | | U. S. A. T. S. 11. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 2.0 | 2.00 | 1.50 | 1.5 | 1.50 | 1.5 | 1.50 | 1.5 |
| 1.25 | 4.4 | +0.50 | 3.90 | 0.2 | 4.00 | 0.1 | 3.25 | 0.1 |
| 2.5 | 5.5 | −0.20 | 5.75 | 0.0 | 5.60 | 0.0 | 4.25 | 0.0 |
| 5.0 | 7.4 | −1.20 | 8.50 | 0.0 | 8.30 | 0.0 | 5.90 | 0.0 |
| 7.5 | 8.8 | −1.50 | 10.56 | 0.0 | 10.00 | 0.0 | 7.10 | 0.0 |
| 10 | 10.0 | −1.90 | 12.30 | 0.0 | 11.40 | 0.0 | 8.40 | 0.0 |
| 15 | 11.8 | −1.90 | 14.50 | 0.0 | 13.30 | 0.0 | 10.10 | 0.0 |
| 20 | 13.1 | −1.45 | 15.70 | 0.0 | 14.50 | 0.0 | 11.30 | 0.0 |
| 30 | 14.7 | 0.00 | 16.90 | 0.0 | 15.75 | 0.0 | 12.70 | 0.0 |
| 40 | 14.8 | 1.20 | 16.90 | 0.0 | 15.70 | 0.0 | 13.00 | 0.0 |
| 50 | 13.9 | 1.90 | 15.80 | 0.0 | 14.70 | 0.0 | 12.30 | 0.0 |
| 60 | 12.3 | 1.50 | 14.00 | 0.0 | 13.10 | 0.0 | 11.00 | 0.0 |
| 70 | 10.3 | 0.73 | 11.50 | 0.0 | 10.90 | 0.0 | 9.00 | 0.0 |
| 80 | 7.8 | 0.0 | 8.50 | 0.0 | 8.00 | 0.0 | 6.90 | 0.0 |
| 90 | 4.9 | −0.50 | 5.30 | 0.0 | 5.00 | 0.0 | 4.46 | 0.0 |
| 95 | 3.3 | −0.30 | 3.60 | 0.0 | 3.40 | 0.0 | 3.20 | 0.0 |
| 100 | 1.0 | +1.00 | 1.00 | 1.0 | 1.00 | 1.0 | 1.00 | 1.0 |

| Per cent of chord. | Ref. No. 35. | | Ref. No. 36. | | Ref. No. 37. | | Ref. No. 38. | |
|---|---|---|---|---|---|---|---|---|
| | U. S. A. T. S. 12. | | U. S. A. T. S. 13. | | U. S. A. T. S. 14. | | U. S. A. T. S. 15. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 1.50 | 1.5 | 1.40 | 1.4 | 1.50 | 1.5 | 2.00 | 2.0 |
| 1.25 | 3.30 | 0.1 | 3.50 | 0.1 | 3.50 | 0.1 | 2.00 | 0.4 |
| 2.5 | 4.35 | 0.0 | 5.40 | 0.0 | 5.25 | 0.0 | 2.20 | 0.0 |
| 5 | 6.40 | 0.0 | 8.00 | 0.0 | 7.65 | 0.0 | 3.90 | 0.0 |
| *7.5 | 7.90 | 0.0 | 9.70 | 0.0 | 9.30 | 0.0 | ..... | ..... |
| 10 | 9.00 | 0.0 | 11.00 | 0.0 | 10.50 | 0.0 | 10.50 | 0.0 |
| 15 | 11.00 | 0.0 | 12.90 | 0.0 | 12.10 | 0.0 | 12.30 | 0.0 |
| 20 | 12.40 | 0.0 | 13.75 | 0.0 | 13.20 | 0.0 | 13.50 | 0.0 |
| 30 | 14.00 | 0.0 | 14.30 | 0.0 | 14.00 | 0.0 | 14.75 | 0.0 |
| 40 | 14.30 | 0.0 | 13.70 | 0.0 | 13.50 | 0.0 | 14.75 | 0.0 |
| 50 | 13.80 | 0.0 | 12.30 | 0.0 | 12.00 | 0.0 | 13.80 | 0.0 |
| 60 | 12.75 | 0.0 | 10.80 | 0.0 | 10.10 | 0.0 | 12.40 | 0.0 |
| 70 | 11.00 | 0.0 | 8.90 | 0.0 | 8.00 | 0.0 | 10.30 | 0.0 |
| 80 | 8.60 | 0.0 | 6.80 | 0.0 | 6.00 | 0.0 | 7.90 | 0.0 |
| 90 | 5.65 | 0.0 | 4.35 | 0.0 | 3.80 | 0.0 | 5.20 | 0.0 |
| 95 | 3.75 | 0.0 | 3.00 | 0.0 | 2.80 | 0.0 | 3.70 | 0.0 |
| 100 | 1.00 | 1.0 | 1.00 | 1.0 | 1.00 | 1.0 | 1.50 | 1.5 |
| *6.75 | ..... | ..... | ..... | ..... | ..... | ..... | 8.70 | 0.0 |

| Per cent of chord. | Ref. No. 39. | | Ref. No. 40. | | Ref. No. 41. | | Ref. No. 42. | |
|---|---|---|---|---|---|---|---|---|
| | U. S. A. T. S. 16. | | U. S. A. T. S. 17. | | U. S. A. T. S. 18. | | Durand Prop. 4. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 2.0 | 2.0 | 2.0 | 2.00 | 2.0 | 2.0 | 0.60 | 0.60 |
| 1.25 | 4.4 | 0.3 | 4.4 | 0.25 | 4.4 | 0.2 | 5.70 | 0.0 |
| 2.5 | 5.5 | −0.1 | 5.5 | −0.25 | 5.5 | −0.3 | 8.25 | −0.20 |
| 5.0 | 7.4 | −1.1 | 7.4 | −0.70 | 7.4 | −1.0 | 12.70 | −1.10 |
| 7.5 | 8.8 | −1.8 | 8.8 | −1.00 | 8.8 | −1.5 | 15.70 | −1.90 |
| 10 | 10.0 | −2.5 | 10.0 | −1.30 | 10.0 | −1.9 | 18.41 | −2.60 |
| 15 | 11.8 | −3.4 | 11.8 | −1.80 | 11.8 | −2.6 | 22.70 | −3.60 |
| 20 | 13.1 | −4.3 | 13.1 | −2.10 | 13.1 | −3.1 | 25.10 | −4.30 |
| 30 | 14.7 | −5.3 | 14.7 | −2.70 | 14.7 | −3.7 | 28.10 | −5.30 |
| 40 | 14.8 | −5.8 | 14.8 | −3.00 | 14.8 | −4.0 | 28.50 | −5.80 |
| 50 | 13.9 | −5.7 | 13.9 | −2.90 | 13.9 | −3.7 | 27.00 | −6.00 |
| 60 | 12.3 | −4.9 | 12.3 | −2.60 | 12.3 | −3.2 | 23.80 | −5.90 |
| 70 | 10.3 | −3.9 | 10.3 | −2.10 | 10.3 | −2.6 | 19.50 | −5.40 |
| 80 | 7.8 | −2.7 | 7.8 | −1.50 | 7.8 | −1.8 | 14.40 | −4.70 |
| 90 | 4.9 | −1.2 | 4.9 | −0.70 | 4.9 | −0.9 | 8.50 | −3.00 |
| 95 | 3.3 | −0.55 | 3.3 | −0.30 | 3.3 | −0.5 | 5.40 | −1.25 |
| 100 | 1.0 | +1.0 | 1.0 | +1.00 | 1.0 | +1.0 | 1.20 | +1.20 |

| Per cent of chord. | Ref. No. 43. | | Ref. No. 44. | | Ref. No. 45. | | Ref. No. 46. | |
|---|---|---|---|---|---|---|---|---|
| | Durand Prop. 7. | | Durand Prop. 10 | | Durand Prop. 13 | | Durand Prop. 16 | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 1.00 | 1.00 | 1.00 | 1.00 | 2.00 | 2.00 | 1.00 | 1.00 |
| 1.25 | 4.10 | 0.0 | 3.20 | 0.0 | 4.40 | 0.30 | 2.60 | 0.0 |
| 2.5 | 6.00 | 0.0 | 5.00 | 0.0 | 5.50 | 0.0 | 3.50 | 0.0 |
| 5.0 | 9.00 | 0.0 | 7.50 | 0.0 | 7.40 | 0.0 | 5.00 | 0.0 |
| 7.5 | 11.40 | 0.0 | 9.60 | 0.0 | 8.80 | 0.0 | 6.30 | 0.0 |
| 10 | 13.16 | 0.0 | 11.50 | 0.0 | 10.00 | 0.0 | 7.30 | 0.0 |
| 15 | 16.60 | 0.0 | 14.40 | 0.0 | 11.80 | 0.0 | 9.00 | 0.0 |
| 20 | 19.00 | 0.0 | 16.50 | 0.0 | 13.10 | 0.0 | 10.00 | 0.0 |
| 30 | 21.85 | 0.0 | 18.60 | 0.0 | 14.70 | 0.0 | 11.00 | 0.0 |
| 40 | 22.00 | 0.0 | 18.60 | 0.0 | 14.80 | 0.0 | 11.10 | 0.0 |
| 50 | 20.32 | 0.0 | 17.10 | 0.0 | 13.90 | 0.0 | 10.70 | 0.0 |
| 60 | 18.05 | 0.0 | 15.00 | 0.0 | 12.30 | 0.0 | 9.60 | 0.0 |
| 70 | 14.65 | 0.0 | 12.40 | 0.0 | 10.30 | 0.0 | 8.00 | 0.0 |
| 80 | 10.80 | 0.0 | 9.20 | 0.0 | 7.80 | 0.0 | 6.20 | 0.0 |
| 90 | 6.55 | 0.0 | 5.60 | 0.0 | 4.90 | 0.0 | 4.10 | 0.0 |
| 95 | 4.20 | 0.0 | 3.70 | 0.0 | 3.30 | 0.0 | 3.00 | 0.0 |
| 100 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 |

| Per cent of chord. | Ref. No. 47. | | Ref. No. 48. | | Ref. No. 49. | | Ref. No. 50. | |
|---|---|---|---|---|---|---|---|---|
| | Offenstein. | | Offenstein-Mod. | | Spad. | | St. Air. Co. No. 48. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 1.00 | 1.00 | 1.00 | 1.00 | 0.26 | 0.26 | 1.27 | 1.27 |
| 1.25 | 1.83 | 0.55 | 1.96 | 0.570 | 1.55 | 0.07 | 2.10 | 0.45 |
| 2.5 | 2.50 | 0.70 | 2.50 | 0.274 | 2.14 | 0.03 | 2.68 | 0.24 |
| 5 | 3.57 | 0.04 | 3.572 | 0.0357 | 3.00 | 0.08 | 3.57 | 0.0 |
| 7.5 | 4.21 | 0.04 | 4.210 | 0.0357 | 3.75 | 0.16 | 4.20 | 0.04 |
| 10 | 4.65 | 0.11 | 4.65 | 0.1071 | 4.37 | 0.26 | 4.68 | 0.15 |
| 15 | 5.20 | 0.32 | 5.25 | 0.310 | 5.31 | 0.55 | 5.30 | 0.36 |
| 20 | 5.56 | 0.48 | 5.56 | 0.478 | 5.95 | 0.85 | 5.62 | 0.56 |
| 30 | 5.84 | 0.67 | 5.84 | 0.666 | 6.60 | 1.25 | 5.85 | 0.67 |
| 40 | 5.79 | 0.63 | 5.79 | 0.631 | 6.67 | 1.31 | 5.84 | 0.60 |
| 50 | 5.51 | 0.51 | 5.51 | 0.512 | 6.28 | 1.10 | 5.55 | 0.48 |
| 60 | 5.04 | 0.43 | 5.045 | 0.429 | 5.53 | 0.82 | 5.06 | 0.37 |
| 70 | 4.36 | 0.32 | 4.360 | 0.3214 | 4.51 | 0.51 | 4.35 | 0.30 |
| 80 | 3.42 | 0.19 | 3.419 | 0.1904 | 3.26 | 0.29 | 3.46 | 0.22 |
| 90 | 1.96 | 0.83 | 1.962 | 0.0834 | 1.80 | 0.15 | 2.34 | 0.11 |
| 95 | 1.30 | 0.78 | 1.050 | 0.0190 | 1.06 | 0.07 | 1.64 | 0.04 |
| 100 | 0.0 | 0.0 | 0.00 | 0.000 | 0.32 | 0.0 | 0.48 | 0.48 |

| Per cent of chord. | Ref. No. 51. | | Ref. No. 52. | | Ref. No. 53. | | Ref. No. 54. | |
|---|---|---|---|---|---|---|---|---|
| | V. E. Clark. | | W-1. | | W. N. Y. 1. | | W. N. Y. 2. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper | Lower. | Upper. | Lower. |
| 0 | 1.0 | 0.8 | 0.0 | 0.0 | 1.018 | 1.018 | 1.018 | 1.018 |
| 1.25 | 2.6 | 0.7 | 1.25 | −1.10 | 1.802 | 0.548 | 1.802 | 0.548 |
| 2.5 | 3.7 | 0.5 | 1.95 | −1.40 | 2.508 | 0.235 | 2.508 | 0.235 |
| 5 | 4.8 | 0.0 | 3.00 | −1.90 | 3.605 | 0.0 | 3.605 | 0.0 |
| 7.5 | 5.6 | 0.3 | 3.90 | −2.15 | 4.467 | 0.235 | 4.467 | 0.235 |
| 10 | 6.3 | 0.7 | 4.50 | −2.50 | 5.265 | 0.687 | 5.265 | 0.687 |
| 15 | 7.0 | 1.7 | 5.35 | −2.85 | 6.270 | 1.489 | 6.270 | 1.489 |
| 20 | 7.3 | 2.2 | 5.70 | −3.00 | 7.175 | 2.228 | 7.175 | 2.228 |
| 30 | 7.5 | 2.7 | 5.80 | −3.00 | 7.870 | 2.954 | 7.870 | 2.954 |
| 40 | 7.1 | 2.3 | 5.70 | −3.00 | 7.680 | 2.725 | 7.450 | 2.725 |
| 50 | 6.5 | 1.8 | 5.20 | −2.80 | 7.060 | 2.060 | 6.560 | 2.062 |
| 60 | 5.5 | 1.3 | 4.50 | −2.50 | 6.070 | 1.210 | 5.310 | 1.210 |
| 70 | 4.7 | 0.5 | 3.60 | −2.10 | 4.770 | 0.573 | 4.100 | 0.573 |
| 80 | 3.5 | 0.2 | 2.75 | −1.75 | 3.460 | 0.229 | 2.905 | 0.229 |
| 90 | 2.2 | 0.0 | 1.75 | −1.25 | 2.150 | 0.051 | 1.810 | 0.051 |
| 95 | 1.3 | 0.1 | 1.30 | −1.10 | 1.450 | 0.080 | 1.260 | 0.080 |
| 100 | 0.8 | 0.7 | 0.0 | 0.0 | 0.814 | 0.229 | 0.814 | 0.229 |

| Per cent of chord. | Ref. No. 55. | | Ref. No. 56. | | Ref. No. 57 | | Ref. No. 58. | |
|---|---|---|---|---|---|---|---|---|
| | W. N. Y. 3. | | W. N. Y. 4. | | Sloane. | | R. A. F. 3. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 1.018 | 1.018 | 0.0 | 0.0 | 0.71 | 0.71 | 0.80 | 0.80 |
| 1.25 | 1.802 | 0.548 | 1.179 | 0.0 | 1.80 | 0.26 | 2.00 | 0.0 |
| 2.5 | 2.508 | 0.235 | 2.044 | 0.0 | 2.56 | 0.07 | 3.00 | 0.0 |
| 5 | 3.605 | 0.0 | 3.880 | 0.0 | 3.40 | 0.01 | 4.40 | 0.90 |
| 7.5 | 4.467 | 0.235 | 4.409 | 0.235 | 3.95 | 0.05 | 5.50 | 1.30 |
| 10 | 5.265 | 0.687 | 5.265 | 0.687 | 4.38 | 0.12 | 6.40 | 1.60 |
| 15 | 6.270 | 1.489 | 6.270 | 1.489 | 4.93 | 0.36 | 7.68 | 2.10 |
| 20 | 7.175 | 2.228 | 7.175 | 2.228 | 5.25 | 0.51 | 8.40 | 2.40 |
| 30 | 7.870 | 2.954 | 7.870 | 2.954 | 5.62 | 0.63 | 8.80 | 2.90 |
| 40 | 7.190 | 2.725 | 7.450 | 2.725 | 5.62 | 0.55 | 8.50 | 3.20 |
| 50 | 5.925 | 2.062 | 6.560 | 2.062 | 5.30 | 0.46 | 7.80 | 3.10 |
| 60 | 4.575 | 1.210 | 5.310 | 1.210 | 4.82 | 0.38 | 6.90 | 2.60 |
| 70 | 3.356 | 0.573 | 4.100 | 0.573 | 4.10 | 0.33 | 5.60 | 2.10 |
| 80 | 2.355 | 0.229 | 2.905 | 0.229 | 3.26 | 0.21 | 4.10 | 1.40 |
| 90 | 1.502 | 0.051 | 1.810 | 0.051 | 2.14 | 0.08 | 2.40 | 0.80 |
| 95 | 1.150 | 0.080 | 1.260 | 0.080 | 1.43 | 0.04 | 1.60 | 0.40 |
| 100 | 0.814 | 0.229 | 0.814 | 0.229 | 0.58 | 0.0 | 0.70 | 0.0 |

| Per cent of chord. | Ref. No. 59. | | Ref. No. 60. | | Ref. No. 61. | | Ref. No. 62. | |
|---|---|---|---|---|---|---|---|---|
| | R. A. F. 4. | | R. A. F. 5. | | R. A. F. 6. | | R. A. F. 6-Mod. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.80 | 0.80 | 0.80 | 0.80 | 0.50 | 0.0 | 0.50 | 0.0 |
| 1.25 | 2.20 | 0.05 | 2.25 | 0.20 | 2.30 | 0.10 | 2.00 | 0.05 |
| 2.5 | 3.10 | 0.0 | 3.10 | 0.0 | 3.21 | 0.0 | 3.05 | 0.13 |
| 5 | 4.30 | 0.90 | 4.30 | −0.50 | 4.43 | 0.22 | 4.50 | 0.24 |
| 7.5 | 5.25 | 1.30 | 5.20 | −0.75 | 5.35 | 0.35 | 5.40 | 0.34 |
| 10 | 6.00 | 1.60 | 6.00 | −0.80 | 6.01 | 0.41 | 6.10 | 0.45 |
| 15 | 6.90 | 2.00 | 6.90 | −0.55 | 7.08 | 0.70 | 7.15 | 0.63 |
| 20 | 7.40 | 2.10 | 7.40 | −0.10 | 7.40 | 0.68 | 7.80 | 0.70 |
| 30 | 7.50 | 2.20 | 7.50 | +1.70 | 7.59 | 0.77 | 8.20 | 0.80 |
| 40 | 7.20 | 2.10 | 7.20 | 2.20 | 7.47 | 0.68 | 7.70 | 0.80 |
| 50 | 6.60 | 1.90 | 6.60 | 2.00 | 7.11 | 0.53 | 7.10 | 0.75 |
| 60 | 5.90 | 1.60 | 5.90 | 1.60 | 6.51 | 0.41 | 6.43 | 0.64 |
| 70 | 4.90 | 1.30 | 4.90 | 1.30 | 5.65 | 0.30 | 5.80 | 0.80 |
| 80 | 3.80 | 0.90 | 3.80 | 0.90 | 4.42 | 0.19 | 5.33 | 1.45 |
| 90 | 2.50 | 0.40 | 2.50 | 0.40 | 2.73 | 0.09 | 4.90 | 2.50 |
| 95 | 1.70 | 0.22 | 1.65 | 0.30 | 1.85 | 0.05 | 4.76 | 3.20 |
| 100 | 0.80 | 0.10 | 0.80 | 0.10 | 0.50 | 0.0 | 4.30 | 4.30 |

| Per cent of chord. | Ref. No. 63. | | Ref. No. 64. | | Ref. No. 65. | | Ref. No. 66. | |
|---|---|---|---|---|---|---|---|---|
| | R. A. F. 6a. | | R. A. F. 6c. | | R. A. F. 6c (BS) | | R. A. F. 8. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 5.00 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.25 | 2.30 | 0.0 | 2.25 | 0.0 | 2.25 | −2.25 | 3.30 | 0.0 |
| 2.5 | 3.21 | 0.0 | 3.10 | 0.11 | 3.10 | −3.10 | 4.10 | 0.10 |
| 5 | 4.43 | 0.0 | 4.53 | 0.25 | 4.53 | −4.53 | 5.30 | 0.35 |
| 7.5 | 5.35 | 0.0 | 5.50 | 0.37 | 5.50 | −5.50 | 6.00 | 0.57 |
| 10 | 6.01 | 0.0 | 6.17 | 0.45 | 6.17 | −6.17 | 6.47 | 0.76 |
| 15 | 7.08 | 0.0 | 6.95 | 0.67 | 6.95 | −6.95 | 7.20 | 1.00 |
| 20 | 7.40 | 0.0 | 7.40 | 0.80 | 7.40 | −7.40 | 7.52 | 0.95 |
| 30 | 7.59 | 0.0 | 7.85 | 0.90 | 7.85 | −7.85 | 7.58 | 0.85 |
| 40 | 7.47 | 0.0 | 7.70 | 0.80 | 7.70 | −7.70 | 7.40 | 0.70 |
| 50 | 7.11 | 0.0 | 7.30 | 0.65 | 7.30 | −7.30 | 7.10 | 0.55 |
| 60 | 6.51 | 0.0 | 6.80 | 0.50 | 6.80 | −6.80 | 6.50 | 0.30 |
| 70 | 5.65 | 0.0 | 5.90 | 0.35 | 5.90 | −5.90 | 5.60 | 0.18 |
| 80 | 4.42 | 0.0 | 4.70 | 0.20 | 4.70 | −4.70 | 4.50 | 0.0 |
| 90 | 2.73 | 0.0 | 3.20 | 0.10 | 3.20 | −3.20 | 2.80 | 0.0 |
| 95 | 1.85 | 0.0 | 2.30 | 0.05 | 2.30 | −2.30 | 1.85 | 0.0 |
| 100 | 0.50 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Per cent of chord. | Ref. No. 67. | | Ref. No. 68. | | Ref. No. 69. | | Ref. No. 70. | |
|---|---|---|---|---|---|---|---|---|
| | R. A. F. 9. | | R. A. F. 12. | | R. A. F. 13. | | R. A. F. 14. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.68 | 0.68 |
| 1.25 | 2.75 | 0.02 | 2.00 | −0.46 | 2.05 | −0.50 | 1.80 | 0.13 |
| 2.5 | 3.52 | 0.06 | 2.74 | −0.63 | 2.85 | −0.65 | 2.54 | 0.05 |
| 5 | 4.82 | 0.20 | 3.83 | −0.89 | 3.95 | −0.89 | 3.65 | 0.03 |
| 7.5 | 5.70 | 0.30 | 4.55 | −1.05 | 4.80 | −1.06 | 4.52 | 0.16 |
| 10 | 6.33 | 0.35 | 5.05 | −1.22 | 5.34 | −1.18 | 5.25 | 0.39 |
| 15 | 7.00 | 0.40 | 5.55 | −1.33 | 6.00 | −1.33 | 6.18 | 0.94 |
| 20 | 7.23 | 0.37 | 5.76 | −1.40 | 6.50 | −1.38 | 6.63 | 1.22 |
| 30 | 7.33 | 0.35 | 5.75 | −1.38 | 7.05 | −1.42 | 7.06 | 1.39 |
| 40 | 7.10 | 0.30 | 5.59 | −1.36 | 6.88 | −1.36 | 6.82 | 1.27 |
| 50 | 6.70 | 0.25 | 5.27 | −1.28 | 6.25 | −1.28 | 6.50 | 1.06 |
| 60 | 6.10 | 0.20 | 4.80 | −1.17 | 4.60 | −1.17 | 6.08 | 0.85 |
| 70 | 5.20 | 0.16 | 4.58 | −0.99 | 4.08 | −0.99 | 5.43 | 0.62 |
| 80 | 4.00 | 0.10 | 3.79 | −0.76 | 3.14 | −0.76 | 4.28 | 0.42 |
| 90 | 2.50 | 0.07 | 2.48 | −0.47 | 1.96 | −0.47 | 2.65 | 0.19 |
| 95 | 1.67 | 0.03 | 1.62 | 0.26 | 1.24 | −0.27 | 1.70 | 0.17 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.38 | 0.38 |

| Per cent of chord. | Ref. No. 71. | | Ref. No. 72. | | Ref. No. 73. | | Ref. No. 74. | |
|---|---|---|---|---|---|---|---|---|
| | R. A. F. 14-Mod. | | R. A. F. 15. | | R. A. F. 15-Mod. | | R. A. F. 16. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.66 | 0.66 | 0.20 | +0.20 | 1.33 | 1.33 | 0.30 | +0.30 |
| 1.25 | 1.74 | 0.42 | 1.90 | −0.45 | 3.00 | 0.55 | 2.20 | −0.47 |
| 2.5 | 2.55 | 0.40 | 2.80 | −0.73 | 3.75 | 0.26 | 3.15 | −0.75 |
| 5 | 3.82 | 0.40 | 3.90 | −0.90 | 4.85 | 0.10 | 4.42 | −0.90 |
| 7.5 | 4.76 | 0.42 | 4.60 | −1.00 | 5.56 | 0.05 | 5.20 | −1.00 |
| 10 | 5.50 | 0.40 | 5.05 | −1.00 | 6.00 | 0.0 | 5.70 | −1.03 |
| 15 | 6.40 | 0.80 | 5.58 | −0.80 | 6.55 | 0.17 | 6.25 | −0.80 |
| 20 | 6.80 | 1.26 | 5.76 | −0.50 | 6.70 | 0.50 | 6.50 | −0.50 |
| 30 | 6.90 | 1.24 | 5.80 | −0.10 | 6.70 | 0.80 | 6.58 | −0.10 |
| *40 | 6.78 | 1.12 | 5.58 | −0.05 | 6.49 | 0.91 | 6.32 | 0.0 |
| 50 | 6.47 | 0.86 | 5.17 | −0.28 | 6.13 | 0.67 | 6.00 | 0.0 |
| 60 | 6.00 | 0.40 | 4.68 | −0.47 | 5.62 | 0.34 | 5.49 | 0.0 |
| *70 | 5.37 | −0.08 | 4.07 | −0.62 | 4.98 | 0.10 | 4.70 | 0.0 |
| *80 | 4.16 | −0.50 | 3.28 | −0.67 | 4.22 | 0.16 | 3.80 | 0.0 |
| 90 | 2.63 | −0.40 | 2.24 | −0.35 | 3.33 | 0.55 | 2.68 | 0.0 |
| 95 | 1.66 | −0.15 | 1.63 | −0.20 | 2.77 | 0.76 | 1.90 | 0.0 |
| 100 | 0.40 | 0.40 | 0.30 | +0.30 | 1.33 | 1.33 | 0.30 | +0.30 |
| *35 | ..... | ..... | 5.74 | 0.0 | ..... | ..... | ..... | ..... |
| *36.7 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.0 |
| *68 | ..... | 0.0 | ..... | ..... | ..... | ..... | ..... | ..... |
| *73.3 | ..... | ..... | ..... | ..... | ..... | 0.0 | ..... | ..... |

| Per cent of chord. | Ref. No. 75. | | Ref. No. 76. | | Ref. No. 77. | | Ref. No. 78. | |
|---|---|---|---|---|---|---|---|---|
| | R. A. F. 17. | | R. A. F. 18. | | R. A. F. 19. | | R. A. F. 20. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.30 | +0.30 | 0.70 | 0.70 | 1.20 | 1.20 | 0.0 | 0.0 |
| 1.25 | 1.80 | −0.32 | 1.82 | 0.25 | 3.90 | 0.22 | 0.90 | −0.53 |
| 2.5 | 2.76 | −0.48 | 2.41 | 0.05 | 5.80 | 0.03 | 1.60 | −0.68 |
| *5 | 3.90 | −0.70 | 3.30 | 0.0 | 8.50 | 0.10 | 2.70 | −0.90 |
| 7.5 | 4.55 | −0.80 | 4.00 | 0.05 | 10.38 | 0.62 | 3.50 | −0.96 |
| 10 | 5.00 | −0.85 | 4.50 | 0.16 | 11.75 | 1.40 | 4.06 | −1.05 |
| 15 | 5.54 | −0.87 | 5.20 | 0.52 | 13.70 | 3.15 | 4.86 | −1.20 |
| 20 | 5.78 | −0.82 | 5.62 | 0.90 | 14.72 | 4.85 | 5.43 | −1.27 |
| 30 | 5.80 | −1.00 | 5.90 | 1.40 | 15.20 | 6.90 | 6.00 | −1.40 |
| 40 | 5.62 | −0.95 | 5.90 | 1.30 | 14.70 | 7.50 | 6.00 | −1.50 |
| 50 | 5.20 | −0.87 | 5.60 | 1.00 | 13.40 | 7.20 | 5.70 | −1.50 |
| 60 | 4.65 | −0.80 | 5.10 | 0.70 | 11.70 | 6.20 | 5.10 | −1.40 |
| 70 | 3.98 | −0.70 | 4.40 | 0.40 | 9.50 | 5.00 | 4.20 | −1.40 |
| 80 | 3.22 | −0.60 | 3.50 | 0.20 | 7.10 | 3.40 | 3.10 | −1.10 |
| 90 | 2.24 | −0.40 | 2.20 | 0.0 | 4.30 | 1.70 | 1.80 | −0.80 |
| 95 | 1.64 | −0.30 | 1.50 | 0.0 | 2.60 | 0.80 | 1.10 | −0.60 |
| *100 | 0.42 | +0.42 | 0.30 | 0.30 | 0.60 | 0.60 | 0.0 | 0.0 |
| *3.5 | ..... | ..... | ..... | ..... | ..... | 0.0 | ..... | ..... |
| *99 | ..... | ..... | ..... | ..... | ..... | 0.0 | ..... | ..... |

| Per cent of chord. | Ref. No. 79. | | Ref. No. 80. | | Ref. No. 81. | | Ref. No. 82. | |
|---|---|---|---|---|---|---|---|---|
| | N. & G. 1. | | N. & G. 2. | | N. & G. 3. | | N. & G. 4. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.25 | 1.13 | 0.0 | 1.44 | 0.0 | 1.69 | 0.0 | 2.25 | 0.0 |
| 2.5 | 1.58 | 0.0 | 2.01 | 0.0 | 2.36 | 0.0 | 3.14 | 0.0 |
| 5 | 2.29 | 0.0 | 2.94 | 0.0 | 3.44 | 0.0 | 4.58 | 0.0 |
| 7.5 | 2.78 | 0.0 | 3.56 | 0.0 | 4.16 | 0.0 | 5.55 | 0.0 |
| 10 | 3.07 | 0.0 | 3.94 | 0.0 | 4.61 | 0.0 | 6.14 | 0.0 |
| 15 | 3.47 | 0.0 | 4.45 | 0.0 | 5.21 | 0.0 | 6.94 | 0.0 |
| 20 | 3.70 | 0.0 | 4.74 | 0.0 | 5.55 | 0.0 | 7.40 | 0.0 |
| 30 | 3.89 | 0.0 | 4.99 | 0.0 | 5.84 | 0.0 | 7.78 | 0.0 |
| *40 | 3.85 | 0.0 | 4.94 | 0.0 | 5.78 | 0.0 | 7.70 | 0.0 |
| 50 | 3.65 | 0.0 | 4.68 | 0.0 | 5.48 | 0.0 | 7.30 | 0.0 |
| 60 | 3.40 | 0.0 | 4.36 | 0.0 | 5.10 | 0.0 | 6.80 | 0.0 |
| 70 | 2.95 | 0.0 | 3.78 | 0.0 | 4.40 | 0.0 | 5.90 | 0.0 |
| 80 | 2.35 | 0.0 | 3.01 | 0.0 | 3.50 | 0.0 | 4.70 | 0.0 |
| 90 | 1.60 | 0.0 | 2.05 | 0.0 | 2.40 | 0.0 | 3.20 | 0.0 |
| 95 | 1.15 | 0.0 | 1.47 | 0.0 | 1.73 | 0.0 | 2.30 | 0.0 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| * 32 | 3.90 | 0.0 | 5.00 | 0.0 | 5.85 | 0.0 | 7.80 | 0.0 |

| Per cent of chord. | Ref. No. 83. | | Ref. No. 84. | | Ref. No. 85. | | Ref. No. 86. | |
|---|---|---|---|---|---|---|---|---|
| | N. & G. 5. | | N. & G. 6. | | N. & G. 7. | | N. & G. 8. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.25 | 2.37 | 0.0 | 2.53 | 0.0 | 1.78 | 0.0 | 1.90 | 0.0 |
| 2.5 | 3.40 | 0.0 | 3.71 | 0.0 | 2.55 | 0.0 | 2.78 | 0.0 |
| 5 | 4.85 | 0.0 | 5.24 | 0.0 | 3.64 | 0.0 | 3.93 | 0.0 |
| 7.5 | 5.83 | 0.0 | 6.16 | 0.0 | 4.37 | 0.0 | 4.62 | 0.0 |
| 10 | 6.44 | 0.0 | 6.77 | 0.0 | 4.83 | 0.0 | 5.08 | 0.0 |
| 15 | 7.20 | 0.0 | 7.39 | 0.0 | 5.40 | 0.0 | 5.54 | 0.0 |
| 20 | 7.52 | 0.0 | 7.73 | 0.0 | 5.64 | 0.0 | 5.80 | 0.0 |
| * 30 | 7.79 | 0.0 | 7.76 | 0.0 | 5.84 | 0.0 | 5.82 | 0.0 |
| 40 | 7.59 | 0.0 | 7.47 | 0.0 | 5.70 | 0.0 | 5.60 | 0.0 |
| 50 | 7.16 | 0.0 | 7.03 | 0.0 | 5.37 | 0.0 | 5.27 | 0.0 |
| 60 | 6.59 | 0.0 | 6.47 | 0.0 | 4.94 | 0.0 | 4.85 | 0.0 |
| 70 | 5.67 | 0.0 | 5.60 | 0.0 | 4.25 | 0.0 | 4.21 | 0.0 |
| 80 | 4.53 | 0.0 | 4.45 | 0.0 | 3.40 | 0.0 | 3.34 | 0.0 |
| 90 | 3.11 | 0.0 | 3.04 | 0.0 | 2.33 | 0.0 | 2.28 | 0.0 |
| 95 | 2.27 | 0.0 | 2.20 | 0.0 | 1.70 | 0.0 | 1.65 | 0.0 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| * 24 | ..... | ..... | 7.80 | 0.0 | ..... | ..... | 5.85 | 0.0 |
| * 28 | 7.80 | 0.0 | ..... | ..... | 5.85 | 0.0 | ..... | ..... |

| Per cent of chord. | Ref. No. 87. | | Ref. No. 88. | | Ref. No. 89. | | Ref. No. 90. | |
|---|---|---|---|---|---|---|---|---|
| | N. & G. 9. | | N. & G. 10. | | N. & G. 11. | | N. & G. 12. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | −0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.25 | 1.90 | −0.65 | 1.90 | −0.325 | 1.90 | −1.14 | 1.90 | −0.76 |
| 2.5 | 2.78 | −0.95 | 2.78 | −0.475 | 2.78 | −1.75 | 2.78 | −1.17 |
| 5 | 3.93 | −1.34 | 3.93 | −0.670 | 3.93 | −2.50 | 3.93 | −1.67 |
| 7.5 | 4.62 | −1.58 | 4.62 | −0.790 | 4.62 | −2.84 | 4.62 | −1.89 |
| 10 | 5.08 | −1.74 | 5.08 | −0.870 | 5.08 | −2.99 | 5.08 | −1.99 |
| * 15 | 5.54 | −1.89 | 5.54 | −0.945 | 5.54 | −2.68 | 5.54 | −1.79 |
| 20 | 5.80 | −1.98 | 5.80 | −0.990 | 5.80 | −1.80 | 5.80 | −1.20 |
| * 30 | 5.82 | −1.99 | 5.82 | −0.995 | 5.82 | −0.20 | 5.82 | −0.133 |
| 40 | 5.60 | −1.91 | 5.60 | −0.955 | 5.60 | 0.0 | 5.60 | 0.0 |
| 50 | 5.27 | −1.80 | 5.27 | −0.900 | 5.27 | 0.0 | 5.27 | 0.0 |
| 60 | 4.85 | −1.66 | 4.85 | −0.830 | 4.85 | 0.0 | 4.85 | 0.0 |
| 70 | 4.21 | −1.44 | 4.21 | −0.720 | 4.21 | 0.0 | 4.21 | 0.0 |
| 80 | 3.34 | −1.14 | 3.34 | −0.570 | 3.34 | 0.0 | 3.34 | 0.0 |
| 90 | 2.28 | −0.78 | 2.28 | −0.340 | 2.28 | 0.0 | 2.28 | 0.0 |
| 95 | 1.65 | −0.56 | 1.65 | −0.280 | 1.65 | 0.0 | 1.65 | 0.0 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| * 10.7 | ..... | ..... | ..... | ..... | ..... | −3.0 | ..... | −2.0 |
| * 24 | 5.85 | −0.20 | 5.85 | −0.10 | 5.85 | ..... | 5.85 | ..... |

| Per cent of chord. | Ref. No. 91. | | Ref. No. 92. | | Ref. No. 93. | | Ref. No. 94. | |
|---|---|---|---|---|---|---|---|---|
| | N. & G. 13. | | N. & G. 14. | | N. & G. 15. | | N. & G. 16. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.25 | 1.90 | −0.380 | 1.90 | −0.94 | 1.90 | −0.470 | 1.90 | −1.30 |
| 2.5 | 2.78 | −0.580 | 2.78 | −1.36 | 2.78 | −0.680 | 2.78 | −1.50 |
| 5 | 3.93 | −0.830 | 3.93 | −1.83 | 3.93 | −0.915 | 3.93 | −1.38 |
| 7.5 | 4.62 | −0.950 | 4.62 | −2.00 | 4.62 | −1.000 | 4.62 | −1.20 |
| 10 | 5.08 | −0.997 | 5.08 | −1.85 | 5.08 | −0.925 | 5.08 | −1.07 |
| * 15 | 5.54 | −0.890 | 5.54 | −1.20 | 5.54 | −0.600 | 5.54 | −0.70 |
| 20 | 5.80 | −0.600 | 5.80 | −0.70 | 5.80 | −0.350 | 5.80 | −0.30 |
| * 30 | 5.82 | −0.067 | 5.82 | −0.10 | 5.82 | −0.050 | 5.82 | −0.06 |
| * 40 | 5.60 | 0.0 | 5.60 | 0.0 | 5.60 | 0.0 | 5.60 | 0.0 |
| 50 | 5.27 | 0.0 | 5.27 | 0.0 | 5.27 | 0.0 | 5.27 | 0.0 |
| 60 | 4.85 | 0.0 | 4.85 | 0.0 | 4.85 | 0.0 | 4.85 | 0.0 |
| 70 | 4.21 | 0.0 | 4.21 | 0.0 | 4.21 | 0.0 | 4.21 | 0.0 |
| 80 | 3.34 | 0.0 | 3.34 | 0.0 | 3.34 | 0.0 | 3.34 | 0.0 |
| 90 | 2.28 | 0.0 | 2.28 | 0.0 | 2.28 | 0.0 | 2.28 | 0.0 |
| 95 | 1.65 | 0.0 | 1.65 | 0.0 | 1.65 | 0.0 | 1.65 | 0.0 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| * 10.7 | ..... | −1.0 | ..... | ..... | ..... | ..... | ..... | ..... |
| * 24 | 5.85 | ..... | 5.85 | ..... | 5.85 | ..... | 5.85 | ..... |
| * 33.3 | ..... | ..... | ..... | 0.0 | ..... | ..... | ..... | ..... |

| Per cent of chord. | Ref. No. 95. | | Ref. No. 96. | | Ref. No. 97. | | Ref. No. 98. | |
|---|---|---|---|---|---|---|---|---|
| | N. & G. 17. | | N. & G. 18. | | N. & G. 19. | | N. & G. 20. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.25 | 1.90 | −0.866 | 1.90 | −0.433 | 1.13 | −0.380 | 1.13 | −0.470 |
| 2.5 | 2.78 | −1.000 | 2.78 | −0.500 | 1.58 | −0.580 | 1.58 | −0.680 |
| 5 | 3.93 | −0.920 | 3.93 | −0.460 | 2.29 | −0.830 | 2.29 | −0.915 |
| 7.5 | 4.62 | −0.800 | 4.62 | −0.400 | 2.78 | −0.930 | 2.78 | −1.000 |
| 10 | 5.08 | −0.713 | 5.08 | −0.357 | 3.07 | −0.997 | 3.07 | −0.925 |
| *15 | 5.54 | −0.466 | 5.54 | −0.233 | 3.47 | −0.890 | 3.47 | −0.600 |
| 20 | 5.80 | −0.200 | 5.80 | −0.100 | 3.70 | −0.600 | 3.70 | −0.350 |
| −*30 | 5.82 | −0.040 | 5.82 | −0.020 | 3.89 | −0.067 | 3.89 | −0.050 |
| *40 | 5.60 | 0.0 | 5.60 | 0.0 | 3.85 | 0.0 | 3.85 | 0.0 |
| 50 | 5.27 | 0.0 | 5.27 | 0.0 | 3.65 | 0.0 | 3.65 | 0.0 |
| 60 | 4.85 | 0.0 | 4.85 | 0.0 | 3.40 | 0.0 | 3.40 | 0.0 |
| 70 | 4.21 | 0.0 | 4.21 | 0.0 | 2.95 | 0.0 | 2.95 | 0.0 |
| 80 | 3.34 | 0.0 | 3.34 | 0.0 | 2.35 | 0.0 | 2.35 | 0.0 |
| 90 | 2.28 | 0.0 | 2.28 | 0.0 | 1.60 | 0.0 | 1.60 | 0.0 |
| 95 | 1.65 | 0.0 | 1.65 | 0.0 | 1.15 | 0.0 | 1.15 | 0.0 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *10.7 | ..... | ..... | ..... | ..... | ..... | −1.0 | ..... | ..... |
| −*24 | 5.85 | ..... | 5.85 | ..... | ..... | ..... | ..... | ..... |
| *32 | ..... | ..... | ..... | ..... | 3.90 | ..... | 3.90 | ..... |
| *33.3 | ..... | ..... | ..... | ..... | ..... | 0.0 | ..... | 0.0 |

| Per cent of chord. | Ref. No. 99. | | Ref. No. 100. | | Ref. No. 101. | | Ref. No. 102. | |
|---|---|---|---|---|---|---|---|---|
| | N. & G. 21. | | N. & G. 22. | | N. & G. 23. | | N. & G. 24. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.25 | 1.13 | −0.235 | 1.13 | −0.290 | 1.13 | −0.145 | 2.25 | −0.290 |
| 2.5 | 1.58 | −0.340 | 1.58 | −0.400 | 1.58 | −0.200 | 3.14 | −0.400 |
| 5 | 2.29 | −0.458 | 2.29 | −0.590 | 2.29 | −0.295 | 4.58 | −0.590 |
| 7.5 | 2.78 | −0.500 | 2.78 | −0.760 | 2.78 | −0.380 | 5.55 | −0.760 |
| 10 | 3.07 | −0.463 | 3.07 | −0.790 | 3.07 | −0.395 | 6.14 | −0.790 |
| 15 | 3.47 | −0.300 | 3.47 | −0.890 | 3.47 | −0.445 | 6.94 | −0.890 |
| 20 | 3.70 | −0.175 | 3.70 | −0.950 | 3.70 | −0.475 | 7.40 | −0.950 |
| 30 | 3.89 | −0.025 | 3.89 | −0.997 | 3.89 | −0.498 | 7.78 | −0.997 |
| *40 | 3.85 | 0.0 | 3.85 | −0.990 | 3.85 | −0.495 | 7.70 | −0.990 |
| 50 | 3.65 | 0.0 | 3.65 | −0.940 | 3.65 | −0.470 | 7.30 | −0.940 |
| 60 | 3.40 | 0.0 | 3.40 | −0.870 | 3.40 | −0.435 | 6.80 | −0.870 |
| 70 | 2.95 | 0.0 | 2.95 | −0.760 | 2.95 | −0.380 | 5.90 | −0.760 |
| 80 | 2.35 | 0.0 | 2.35 | −0.600 | 2.35 | −0.300 | 4.70 | −0.600 |
| 90 | 1.60 | 0.0 | 1.60 | −0.410 | 1.60 | −0.205 | 3.20 | −0.410 |
| 95 | 1.15 | 0.0 | 1.15 | −0.290 | 1.15 | −0.145 | 2.30 | −0.290 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *32 | 3.90 | ..... | 3.90 | −1.000 | 3.90 | −0.500 | 7.80 | −1.000 |
| *33.3 | ..... | 0.0 | ..... | ..... | ..... | ..... | ..... | ..... |

| Per cent of chord. | Ref. No. 103. | | Ref. No. 104. | | Ref. No. 105. | | Ref. No. 106. | |
|---|---|---|---|---|---|---|---|---|
| | N. & G. 25. | | N. & G. 26. | | N. & G. 27. | | N. & G. 28. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.834 | 0.834 | 1.67 | 1.67 |
| 1.25 | 1.69 | −0.290 | 1.44 | −0.290 | ..... | ..... | ..... | ..... |
| 2.5 | 2.36 | −0.400 | 2.01 | −0.400 | ..... | ..... | ..... | ..... |
| 5.0 | 3.44 | −0.590 | 2.94 | −0.590 | 4.580 | 0.0 | ..... | ..... |
| 7.5 | 4.16 | −0.760 | 3.56 | −0.760 | 5.550 | 0.0 | ..... | ..... |
| 10 | 4.61 | −0.790 | 3.94 | −0.790 | 6.140 | 0.0 | 6.14 | 0.0 |
| 15 | 5.21 | −0.890 | 4.45 | −0.890 | 6.940 | 0.0 | 6.94 | 0.0 |
| 20 | 5.55 | −0.950 | 4.74 | −0.950 | 7.400 | 0.0 | 7.40 | 0 0 |
| 30 | 5.84 | −0.997 | 4.99 | −0.997 | 7.780 | 0.0 | 7.78 | 0.0 |
| *40 | 5.78 | −0.990 | 4.94 | −0.990 | 7.700 | 0.0 | 7.70 | 0.0 |
| 50 | 5.48 | −0.940 | 4.68 | −0.940 | 7.300 | 0.0 | 7.30 | 0.0 |
| 60 | 5.10 | −0.870 | 4.36 | −0.870 | 6.800 | 0.0 | 6.80 | 0.0 |
| 70 | 4.40 | −0.760 | 3.78 | −0.760 | 5.900 | 0.0 | 5.90 | 0.0 |
| 80 | 3.50 | −0.600 | 3.01 | −0.600 | 4.700 | 0.0 | 4.70 | 0.0 |
| 90 | 2.40 | −0.410 | 2.05 | −0.410 | 3.200 | 0.0 | 3.20 | 0.0 |
| 95 | 1.73 | −0.290 | 1.47 | −0.290 | 2.300 | 0.0 | 2.30 | 0.0 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *32 | 5.85 | −1.000 | 5.00 | −1.000 | 7.800 | 0.0 | 7.80 | 0.0 |

| Per cent of chord. | Ref. No. 107. | | Ref. No. 108. | | Ref. No. 109. | | Ref. No. 110. | |
|---|---|---|---|---|---|---|---|---|
| | N. & G. 29. | | N. & G. 30. | | N. & G. 31. | | A. D. No. 1. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 3.34 | 3.34 | 5.00 | 5.00 | −0.834 | −0.834 | 0.0 | 0.0 |
| 1.25 | ..... | ..... | ..... | ..... | ..... | ..... | 1.10 | −0.780 |
| 2.5 | ..... | ..... | ..... | ..... | ..... | ..... | 1.63 | −1.000 |
| 5 | ..... | ..... | ..... | ..... | ..... | ..... | 2.62 | −1.160 |
| 7.5 | ..... | ..... | ..... | ..... | ..... | ..... | 3.50 | −1.270 |
| 10 | ..... | ..... | ..... | ..... | 6.14 | 0.0 | 4.21 | −1.360 |
| 15 | 6.94 | 0.0 | ..... | ..... | 6.94 | 0.0 | 5.20 | −1.450 |
| 20 | 7.40 | 0.0 | 7.40 | 0.0 | 7.40 | 0.0 | 5.67 | −1.500 |
| 30 | 7.78 | 0.0 | 7.78 | 0.0 | 7.78 | 0.0 | 6.32 | −1.600 |
| *40 | 7.70 | 0.0 | 7.70 | 0.0 | 7.70 | 0.0 | 6.38 | −1.620 |
| 50 | 7.30 | 0.0 | 7.30 | 0.0 | 7.30 | 0.0 | 6.08 | −1.610 |
| 60 | 6.80 | 0.0 | 6.80 | 0.0 | 6.80 | 0.0 | 5.38 | −1.600 |
| 70 | 5.90 | 0.0 | 5.90 | 0.0 | 5.90 | 0.0 | 4.50 | −1.400 |
| 80 | 4.70 | 0.0 | 4.70 | 0.0 | 4.70 | 0.0 | 3.43 | −0.900 |
| 90 | 3.20 | 0.0 | 3.20 | 0.0 | 3.20 | 0.0 | 1.90 | −0.700 |
| 95 | 2.30 | 0.0 | 2.30 | 0.0 | 2.30 | 0.0 | 1.10 | −0.620 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *32 | 7.80 | 0.0 | 7.80 | 0.0 | 7.80 | 0.0 | ..... | ..... |

| Per cent of chord. | Ref. No. 111. | | Ref. No. 112. | | Ref. No. 113. | | Ref. No. 114. | |
|---|---|---|---|---|---|---|---|---|
| | A. D. 4. | | N. P. L. 64 | | Albatross. | | Avro. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.74 | 0.74 | 0.34 | 0.34 |
| *1.25 | 1.600 | −0.700 | 2.3 | 0.0 | 2.20 | 0.0 | 1.28 | 0.015 |
| 2.5 | 2.403 | −0.945 | 3.3 | 0.0 | 3.20 | 0.20 | 2.08 | 0.06 |
| 5 | 3.717 | −1.125 | 4.6 | 0.0 | 5.00 | 0.60 | 3.30 | 0.17 |
| 7.5 | 4.60 | −1.300 | 5.5 | 0.0 | 6.20 | 0.95 | 4.30 | 0.26 |
| 10 | 5.310 | −1.440 | 6.2 | 0.0 | 7.05 | 1.25 | 5.20 | 0.42 |
| 15 | 6.300 | −1.647 | 7.2 | 0.0 | 8.25 | 1.75 | 6.68 | 0.88 |
| 20 | 6.858 | −1.737 | 7.6 | 0.0 | 9.00 | 2.12 | 7.50 | 1.25 |
| 30 | 7.200 | −1.800 | 8.0 | 0.0 | 9.64 | 2.50 | 8.30 | 1.78 |
| 40 | 6.912 | −1.773 | 7.2 | 0.0 | 9.45 | 2.62 | 8.43 | 1.93 |
| 50 | 6.300 | −1.710 | 7.1 | 0.0 | 8.55 | 2.50 | 8.05 | 1.76 |
| 60 | 5.472 | −1.575 | 6.2 | 0.0 | 7.40 | 2.17 | 7.20 | 1.40 |
| 70 | 4.383 | −1.368 | 5.1 | 0.0 | 6.02 | 1.76 | 5.75 | 1.04 |
| 80 | 3.177 | −1.125 | 3.9 | 0.0 | 4.30 | 1.25 | 4.00 | 0.66 |
| 90 | 1.845 | −0.882 | 2.5 | 0.0 | 2.47 | 0.65 | 2.23 | 0.30 |
| 95 | 1.060 | −0.660 | 1.6 | 0.0 | 1.50 | 0.30 | 1.30 | 0.08 |
| *100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.35 | 0.35 | 0.20 | 0.20 |
| *1 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.0 |
| *96 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | 0.0 |

| Per cent of chord. | Ref. No. 115. | | Ref. No. 116. | | Ref. No. 117. | | Ref. No. 118. | |
|---|---|---|---|---|---|---|---|---|
| | Bristol. | | B. I. R. 1a. | | B. I. R. 3. | | B. I. R. 33a. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 1.74 | 1.39 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.25 | 2.38 | 1.00 | 2.18 | 0.0 | 2.18 | 1.20 | 2.15 | 0.21 |
| 2.5 | 2.90 | 0.75 | 3.40 | 0.0 | 3.40 | 2.05 | 3.42 | 0.34 |
| 5 | 3.81 | 0.40 | 5.30 | 0.0 | 5.30 | 3.20 | 5.30 | 0.53 |
| 7.5 | 4.50 | 0.18 | 6.65 | 0.0 | 6.65 | 3.95 | 6.52 | 0.65 |
| 10 | 5.08 | 0.04 | 7.62 | 0.0 | 7.62 | 4.55 | 7.50 | 0.75 |
| 15 | 5.92 | 0.08 | 8.80 | 0.0 | 8.80 | 5.34 | 8.87 | 0.88 |
| 20 | 6.41 | 0.35 | 9.50 | 0.0 | 9.50 | 5.74 | 9.50 | 0.95 |
| 30 | 6.77 | 0.83 | 9.98 | 0.0 | 9.98 | 6.00 | 9.95 | 0.99 |
| *40 | 6.76 | 1.05 | 9.88 | 0.0 | 9.88 | 5.84 | 9.80 | 0.98 |
| 50 | 6.65 | 0.99 | 9.16 | 0.0 | 9.16 | 5.50 | 9.05 | 0.90 |
| 60 | 6.14 | 0.71 | 8.10 | 0.0 | 8.10 | 4.80 | 8.00 | 0.80 |
| 70 | 5.31 | 0.27 | 6.64 | 0.0 | 6.64 | 3.92 | 6.50 | 0.65 |
| 80 | 4.14 | 0.0 | 4.78 | 0.0 | 4.78 | 2.85 | 4.75 | 0.47 |
| 90 | 2.72 | 0.12 | 2.65 | 0.0 | 2.65 | 1.50 | 2.60 | 0.26 |
| 95 | 1.90 | 0.40 | 1.50 | 0.0 | 1.50 | 0.78 | 1.42 | 0.14 |
| 100 | 1.04 | 0.69 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *33.2 | ..... | ..... | 10.00 | 0.0 | 10.00 | 0.0 | ..... | ..... |

| Per cent of chord. | Ref. No. 119. | | Ref. No. 120. | | Ref. No. 121. | | Ref. No. 122. | |
|---|---|---|---|---|---|---|---|---|
| | Curtiss. | | DeH-2. | | DeH-3. | | F. 2. B. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 1.43 | 1.43 | 2.00 | 2.00 | 2.30 | 2.30 | 0.8 | 0.8 |
| 1.25 | 3.50 | 0.22 | 2.80 | 1.30 | 3.15 | 1.60 | 1.87 | 0.3 |
| 2.5 | 4.25 | 0.07 | 3.40 | 0.95 | 3.78 | 1.12 | 2.7 | 0.1 |
| *5 | 5.21 | 0.04 | 4.33 | 0.58 | 4.67 | 0.50 | 4.0 | 0.0 |
| 7.5 | 5.86 | 0.18 | 4.93 | 0.45 | 5.26 | 0.20 | 4.92 | 0.03 |
| 10 | 6.30 | 0.40 | 5.36 | 0.38 | 5.63 | 0.10 | 5.7 | 0.1 |
| 15 | 6.84 | 0.73 | 5.83 | 0.43 | 6.10 | 0.0 | 6.8 | 0.5 |
| 20 | 7.21 | 0.90 | 6.10 | 0.60 | 6.35 | 0.07 | 7.3 | 1.0 |
| 30 | 7.40 | 0.90 | 6.45 | 0.83 | 6.53 | 0.38 | 7.6 | 1.7 |
| 40 | 7.21 | 0.83 | 6.50 | 0.86 | 6.57 | 0.57 | 7.6 | 1.6 |
| 50 | 6.83 | 0.73 | 6.44 | 0.87 | 6.47 | 0.57 | 7.3 | 1.4 |
| 60 | 6.13 | 0.52 | 5.73 | 0.77 | 6.03 | 0.50 | 6.1 | 1.1 |
| 70 | 5.28 | 0.42 | 5.31 | 0.62 | 5.35 | 0.35 | 5.8 | 0.8 |
| 80 | 4.08 | 0.28 | 4.07 | 0.43 | 4.20 | 0.17 | 4.5 | 0.4 |
| *90 | 2.35 | 0.15 | 2.53 | 0.23 | 2.73 | 0.0 | 2.9 | 0.1 |
| 95 | 1.37 | 0.07 | 1.70 | 0.12 | 1.93 | 0.10 | 1.8 | 0.0 |
| *100 | 0.13 | 0.13 | 0.40 | 0.40 | 0.70 | 0.70 | 0.3 | 0.3 |
| *3.3 | ..... | 0.0 | ..... | ..... | ..... | ..... | ..... | ..... |
| *88.0 | ..... | ..... | ..... | ..... | ..... | 0.0 | ..... | ..... |
| *98.3 | ..... | 0.0 | ..... | ..... | ..... | ..... | ..... | ..... |

| Per cent of chord. | Ref. No. 123. | | Ref. No. 124. | | Ref. No. 125. | | Ref. No. 126. | |
|---|---|---|---|---|---|---|---|---|
| | Fairey. | | H. P. 166. | | H. P. 166a. | | H. P. 166b. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.13 | 0.13 | 0.70 | 0.70 | 0.0 | 0.0 | 0.0 | 0.0 |
| *1.25 | 1.90 | 0.08 | 2.62 | 0.02 | 2.62 | 0.33 | 2.62 | 0.66 |
| 2.5 | 3.06 | 0.03 | 3.55 | 0.05 | 3.55 | 0.33 | 3.55 | 0.63 |
| 5 | 4.86 | 0.07 | 5.14 | 0.15 | 5.14 | 0.35 | 5.14 | 0.60 |
| 7.5 | 6.20 | 0.40 | 6.25 | 0.30 | 6.25 | 0.40 | 6.25 | 0.60 |
| 10 | 7.10 | 0.70 | 7.00 | 0.40 | 7.00 | 0.50 | 7.00 | 0.60 |
| 15 | 8.10 | 1.10 | 8.00 | 0.60 | 8.00 | 0.63 | 8.00 | 0.61 |
| 20 | 8.85 | 1.46 | 8.50 | 0.72 | 8.50 | 0.72 | 8.50 | 0.72 |
| 30 | 9.40 | 1.80 | 8.84 | 0.88 | 8.84 | 0.88 | 8.84 | 0.88 |
| 40 | 9.22 | 1.80 | 8.72 | 0.96 | 8.72 | 0.96 | 8.72 | 0.96 |
| 50 | 8.72 | 1.67 | 8.20 | 0.85 | 8.20 | 0.85 | 8.20 | 0.85 |
| 60 | 7.83 | 1.47 | 7.36 | 0.68 | 7.36 | 0.68 | 7.36 | 0.68 |
| 70 | 6.45 | 1.10 | 6.28 | 0.46 | 6.28 | 0.46 | 6.28 | 0.46 |
| 80 | 4.85 | 0.70 | 4.90 | 0.30 | 4.90 | 0.30 | 4.90 | 0.30 |
| 90 | 2.90 | 0.33 | 3.27 | 0.14 | 3.27 | 0.14 | 3.27 | 0.14 |
| 95 | 1.83 | 0.17 | 2.28 | 0.08 | 2.28 | 0.08 | 2.28 | 0.08 |
| 100 | 0.67 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| *0.7 | ..... | ..... | ..... | 0.0 | ..... | ..... | ..... | ..... |

| Per cent of chord. | Ref. No. 127. | | Ref. No. 128. | | Ref. No. 129. | | Ref. No. 130. | |
|---|---|---|---|---|---|---|---|---|
| | H. P. 166c. | | N. P. L. 4. | | N. P. L. 4a. | | N. P. L. 4b. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.25 | 2.62 | 0.94 | 2.30 | 0.0 | 2.3 | 0.46 | 2.30 | 0.92 |
| 2.5 | 3.55 | 0.88 | 3.73 | 0.0 | 3.73 | 0.746 | 3.73 | 1.49 |
| 5 | 5.14 | 0.75 | 5.70 | 0.0 | 5.70 | 1.14 | 5.70 | 2.28 |
| 7.5 | 6.25 | 0.71 | 7.13 | 0.0 | 7.13 | 1.43 | 7.13 | 2.85 |
| 10 | 7.00 | 0.70 | 8.00 | 0 0 | 8.00 | 1.60 | 8.00 | 3.20 |
| 15 | 8.00 | 0.70 | 9.10 | 0.0 | 9.10 | 1.82 | 9.10 | 3.64 |
| 20 | 8.50 | 0.72 | 9.70 | 0.0 | 9.70 | 1.94 | 9.70 | 3.88 |
| 30 | 8.84 | 0.88 | 9.90 | 0.0 | 9.90 | 1.98 | 9.90 | 3.96 |
| 40 | 8.72 | 0.96 | 9.70 | 0.0 | 9.70 | 1.94 | 9.70 | 3.88 |
| 50 | 8.20 | 0.85 | 8.80 | 0.0 | 8.80 | 1.76 | 8.80 | 3.52 |
| 60 | 7.36 | 0.68 | 7.80 | 0.0 | 7.80 | 1.56 | 7.80 | 3.12 |
| 70 | 6.28 | 0.46 | 6.30 | 0.0 | 6.30 | 1.26 | 6.30 | 2.92 |
| 80 | 4.90 | 0.30 | 4.50 | 0.0 | 4.50 | 0.90 | 4.50 | 1.80 |
| 90 | 3.27 | 0.14 | 2.50 | 0.0 | 2.50 | 0.50 | 2.50 | 1.00 |
| 95 | 2.28 | 0.08 | 1.40 | 0.0 | 1.40 | 0.28 | 1.40 | 0.56 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Per cent of chord. | Ref. No. 131. | | Ref. No. 132. | | Ref. No. 133. | | Ref. No. 134. | |
|---|---|---|---|---|---|---|---|---|
| | N. P. L. 4c. | | N. P. L. 4cα. | | N. P. L. 4cβ | | N. P. L. 4cγ. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 1.50 | 1.50 | 2.39 | 2.39 | 3.90 | 3.90 |
| 1.25 | 2.3 | 1.38 | 3.50 | 0.0. | 4.30 | 0.32 | 6.60 | 1.00 |
| 2.5 | 3.73 | 2.24 | 4.60 | 0.25 | 5.35 | 0.0 | 7.50 | 0.25 |
| 5 | 5.70 | 3.42 | 6.20 | 1.90 | 6.90 | 0.58 | 8.30 | 0.15 |
| 7.5 | 7.13 | 4.28 | 7.30 | 3.25 | 7.90 | 2.20 | 8.86 | 1.64 |
| 10 | 8.00 | 4.80 | 8.10 | 4.10 | 8.50 | 3.60 | 9.20 | 3.30 |
| 15 | 9.10 | 5.46 | 9.20 | 5.20 | 9.26 | 5.00 | 9.56 | 4.20 |
| 20 | 9.70 | 5.82 | 9.70 | 5.80 | 9.70 | 5.60 | 9.80 | 5.03 |
| 30 | 9.90 | 5.95 | 9.90 | 5.90 | 9.90 | 5.90 | 9.90 | 5.90 |
| 40 | 9.70 | 5.82 | 9.70 | 5.80 | 9.70 | 5.80 | 9.70 | 5.80 |
| 50 | 8.80 | 5.28 | 8.80 | 5.30 | 8.80 | 5.30 | 8.80 | 5.30 |
| 60 | 7.80 | 4.68 | 7.80 | 4.70 | 7.80 | 4.70 | 7.80 | 4.70 |
| 70 | 6.30 | 3.78 | 6.30 | 3.80 | 6.30 | 3.80 | 6.30 | 3.80 |
| 80 | 4.50 | 2.70 | 4.50 | 2.70 | 4.50 | 2.70 | 4.50 | 2.70 |
| 90 | 2.50 | 1.50 | 2.50 | 1.50 | 2.50 | 1.50 | 2.50 | 1.50 |
| 95 | 1.40 | 0.84 | 1.40 | 0.80 | 1.40 | 0.80 | 1.40 | 0.80 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Per cent of chord. | Ref. No. 135. | | Ref. No. 136. | | Ref. No. 137. | | Ref. No. 138. | |
|---|---|---|---|---|---|---|---|---|
| | N. P. L. 73. | | N. P. L. 214. | | Portholme. | | Scout E. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.50 | 0.50 | 0.0 | 0.0 | 1.00 | 1.00 | 1.10 | 1.10 |
| 1.25 | 2.80 | 0.0 | 2.20 | 0.31 | 2.15 | +0.40 | 2.50 | 0.50 |
| 2.5 | 3.95 | 0.08 | 3.50 | 0.70 | 3.00 | 0.12 | 3.50 | 0.20 |
| 5 | 5.40 | 0.20 | 5.25 | 1.25 | 4.30 | 0.02 | 4.90 | 0.0 |
| 7.5 | 6.28 | 0.34 | 6.58 | 1.70 | 5.08 | −0.04 | 5.82 | 0.02 |
| 10 | 6.90 | 0.40 | 7.50 | 2.09 | 5.80 | −0.10 | 6.40 | 0.10 |
| 15 | 7.95 | 0.60 | 8.78 | 2.70 | 6.70 | −0.20 | 7.10 | 0.40 |
| 20 | 8.50 | 0.80 | 9.51 | 3.25 | 7.20 | −0.27 | 7.40 | 0.70 |
| 30 | 8.80 | 1.00 | 9.99 | 3.90 | 7.50 | −0.35 | 7.50 | 1.10 |
| 40 | 8.70 | 1.00 | 9.84 | 3.60 | 7.34 | −0.30 | 7.30 | 1.20 |
| 50 | 8.30 | 0.90 | 9.21 | 3.20 | 6.93 | −0.25 | 7.00 | 1.10 |
| 60 | 7.30 | 0.70 | 7.92 | 2.55 | 6.30 | −0.20 | 6.50 | 0.80 |
| 70 | 6.20 | 0.50 | 6.39 | 1.98 | 5.50 | −0.12 | 5.60 | 0.40 |
| 80 | 5.00 | 0.30 | 4.73 | 1.30 | 4.30 | −0.10 | 4.30 | 0.20 |
| 90 | 3.30 | 0.10 | 2.72 | 0.67 | 2.60 | −0.05 | 2.90 | 0.0 |
| 95 | 2.10 | 0.05 | 1.65 | 0.32 | 1.65 | −0.02 | 2.00 | 0.0 |
| *100 | 0.40 | 0.40 | 0.50 | 0.0 | 0.20 | +0.02 | 0.30 | 0.30 |
| *97.5 | ..... | ..... | ..... | ..... | ..... | 0.0 | ..... | ..... |

| Per cent of chord. | Ref. No. 139 | | Ref. No. 140. | | Ref. No. 141. | | Ref. No. 142. | |
|---|---|---|---|---|---|---|---|---|
| | Sopwith. | | White. | | C. & L.—A. 1. | | C. & L.—A. 2. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.80 | 0.80 | 0.58 | 0.58 | Rad.=1.04. | | Rad.=1.04. | |
| 1.25 | 2.40 | 0.20 | 2.33 | 0.02 | 2.15 | 0.0 | 2.167 | 0.0 |
| *2.5 | 3.15 | 0.05 | 3.23 | 0.16 | 2.40 | 0.0 | 2.45 | 0.0 |
| 5 | 4.30 | 0.0 | 4.55 | 0.70 | 2.97 | 0.0 | 3.07 | 0.0 |
| 7.5 | 5.20 | 0.0 | 5.50 | 1.13 | 3.46 | 0.0 | 3.57 | 0.0 |
| 10 | 5.90 | 0.0 | 6.20 | 1.55 | 3.91 | 0.0 | 4.08 | 0.0 |
| 15 | 7.00 | 0.25 | 7.20 | 2.20 | 4.75 | 0.0 | 5.01 | 0.0 |
| 20 | 7.80 | 0.55 | 7.67 | 2.68 | 5.49 | 0.0 | 5.77 | 0.0 |
| 30 | 8.60 | 1.10 | 7.70 | 3.22 | 6.64 | 0.0 | 7.00 | 0.0 |
| 40 | 8.40 | 1.00 | 6.83 | 3.48 | 7.30 | 0.0 | 7.73 | 0.0 |
| 50 | 7.80 | 0.70 | 5.70 | 3.30 | 7.50 | 0.0 | 8.00 | 0.0 |
| 60 | 7.00 | 0.30 | 7.81 | 2.90 | 7.30 | 0.0 | 7.73 | 0.0 |
| 70 | 5.80 | 0.0 | 7.10 | 2.40 | 6.64 | 0.0 | 7.00 | 0.0 |
| 80 | 4.40 | 0.0 | 5.42 | 1.76 | 5.49 | 0.0 | 5.77 | 0.0 |
| 90 | 2.80 | 0.0 | 3.26 | 0.91 | 3.91 | 0.0 | 4.08 | 0.0 |
| 95 | 1.80 | 0.0 | 2.05 | 0.46 | 2.97 | 0.0 | 3.07 | 0.0 |
| *100 | 0.60 | 0.60 | 0.24 | 0.24 | Rad.=1.04. | | Rad.=1.04. | |
| *1.5 | ..... | ..... | 2.59 | 0.0 | ..... | ..... | ..... | ..... |
| *99.6 | ..... | ..... | 0.88 | 0.0 | ..... | ..... | ..... | ..... |

| Per cent of chord. | Ref. No. 143. | | Ref. No. 144. | | Ref. No. 145. | | Ref. No. 146 | |
|---|---|---|---|---|---|---|---|---|
| | C. & L.—A. 3. | | C. & L.—A. 4. | | C. & L.—A. 5. | | C. & L.—A. 6. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | |
| 1.25 | 2.184 | 0.0 | 2.20 | 0.0 | 2.30 | 0.0 | 2.40 | 0.0 |
| 2.5 | 2.50 | 0.0 | 2.56 | 0.0 | 2.75 | 0.0 | 3.10 | 0.0 |
| 5 | 3.19 | 0.0 | 3.37 | 0.0 | 3.75 | 0.0 | 4.50 | 0.0 |
| 7.5 | 3.80 | 0.0 | 4.08 | 0.0 | 4.65 | 0.0 | 5.83 | 0.0 |
| 10 | 4.44 | 0.0 | 4.79 | 0.0 | 5.54 | 0.0 | 7.07 | 0.0 |
| 15 | 5.51 | 0.0 | 6.00 | 0.0 | 7.05 | 0.0 | 9.21 | 0.0 |
| 20 | 6.44 | 0.0 | 7.07 | 0.0 | 8.42 | 0.0 | 11.07 | 0.0 |
| 30 | 7.88 | 0.0 | 8.71 | 0.0 | 10.43 | 0.0 | 13.84 | 0.0 |
| 40 | 8.72 | 0.0 | 9.67 | 0.0 | 11.62 | 0.0 | 15.45 | 0.0 |
| 50 | 9.00 | 0.0 | 10.00 | 0.0 | 12.00 | 0.0 | 16.00 | 0.0 |
| 60 | 8.72 | 0.0 | 9.67 | 0.0 | 11.62 | 0.0 | 15.45 | 0.0 |
| 70 | 7.88 | 0.0 | 8.71 | 0.0 | 10.43 | 0.0 | 13.84 | 0.0 |
| 80 | 6.44 | 0.0 | 7.07 | 0.0 | 8.42 | 0.0 | 11.07 | 0.0 |
| 90 | 4.44 | 0.0 | 4.79 | 0.0 | 5.54 | 0.0 | 7.07 | 0.0 |
| 95 | 3.19 | 0.0 | 3.37 | 0.0 | 3.75 | 0.0 | 4.50 | 0.0 |
| 100 | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | |

| Per cent of chord. | Ref. No. 147. | | Ref. No. 148. | | Ref. No. 149. | | Ref. No. 150. | |
|---|---|---|---|---|---|---|---|---|
| | C. & L.—A. 7. | | C. & L.—B. 1. | | C. & L.—B. 2. | | C. & L.—B. 3. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | |
| 1.25 | 2.50 | 0.0 | 2.20 | 0.0 | 2.30 | 0.0 | 2.30 | 0.0 |
| 2.5 | 3.50 | 0.0 | 2.60 | 0.0 | 2.70 | 0.0 | 2.80 | 0.0 |
| 5 | 5.42 | 0.0 | 3.28 | 0.0 | 3.40 | 0.0 | 3.65 | 0.0 |
| 7.5 | 7.14 | 0.0 | 3.91 | 0.0 | 4.08 | 0.0 | 4.44 | 0.0 |
| 10 | 8.76 | 0.0 | 4.45 | 0.0 | 4.75 | 0.0 | 5.15 | 0.0 |
| 15 | 11.53 | 0.0 | 5.49 | 0.0 | 5.77 | 0.0 | 6.44 | 0.0 |
| 20 | 13.87 | 0.0 | 6.28 | 0.0 | 6.65 | 0.0 | 7.45 | 0.0 |
| 30 | 17.36 | 0.0 | 7.30 | 0.0 | 7.73 | 0.0 | 8.72 | 0.0 |
| *40 | 19.34 | 0.0 | ..... | ..... | ..... | ..... | ..... | ..... |
| 50 | 20.00 | 0.0 | 7.30 | 0.0 | 7.73 | 0.0 | 8.72 | 0.0 |
| 60 | 19.34 | 0.0 | 6.85 | 0.0 | 7.15 | 0.0 | 8.10 | 0.0 |
| 70 | 17.36 | 0.0 | 6.00 | 0.0 | 6.30 | 0.0 | 7.05 | 0.0 |
| 80 | 13.87 | 0.0 | 4.90 | 0.0 | 5.15 | 0.0 | 5.70 | 0.0 |
| 90 | 8.76 | 0.0 | 3.55 | 0.0 | 3.70 | 0.0 | 3.95 | 0.0 |
| 95 | 5.42 | 0.0 | 2.75 | 0.0 | 2.85 | 0.0 | 2.95 | 0.0 |
| 100 | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | |
| *37.5 | ..... | ..... | 7.50 | 0.0 | 8.00 | 0.0 | 9.00 | 0.0 |

| Per cent of chord. | Ref. No. 151. | | Ref. No. 152. | | Ref. No. 153. | | Ref. No. 154. | |
|---|---|---|---|---|---|---|---|---|
| | C. & L.—B. 4. | | C. & L.—B. 5. | | C. & L.—B. 6. | | C. & L.—B. 7. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | |
| 1.25 | 2.30 | 0.0 | 2.45 | 0.0 | 2.64 | 0.0 | 2.80 | 0.0 |
| 2.5 | 2.80 | 0.0 | 3.10 | 0.0 | 3.55 | 0.0 | 4.15 | 0.0 |
| 5 | 3.80 | 0.0 | 4.35 | 0.0 | 5.35 | 0.0 | 6.55 | 0.0 |
| 7.5 | 4.79 | 0.0 | 5.54 | 0.0 | 7.07 | 0.0 | 8.75 | 0.0 |
| 10 | 5.60 | 0.0 | 6.55 | 0.0 | 8.50 | 0.0 | 10.65 | 0.0 |
| 15 | 7.07 | 0.0 | 8.42 | 0.0 | 11.07 | 0.0 | 13.87 | 0.0 |
| 20 | 8.20 | 0.0 | 9.84 | 0.0 | 13.00 | 0.0 | 16.25 | 0.0 |
| 30 | 9.67 | 0.0 | 11.62 | 0.0 | 15.45 | 0.0 | 19.34 | 0.0 |
| *40 | ..... | ..... | ..... | ..... | ..... | ..... | ..... | ..... |
| 50 | 9.67 | 0.0 | 11.62 | 0.0 | 15.45 | 0.0 | 19.34 | 0.0 |
| 60 | 8.90 | 0.0 | 10.70 | 0.0 | 14.20 | 0.0 | 17.88 | 0.0 |
| 70 | 7.75 | 0.0 | 9.30 | 0.0 | 12.20 | 0.0 | 15.45 | 0.0 |
| 80 | 6.20 | 0.0 | 7.30 | 0.0 | 9.60 | 0.0 | 11.95 | 0.0 |
| 90 | 4.25 | 0.0 | 4.85 | 0.0 | 6.00 | 0.0 | 7.50 | 0.0 |
| 95 | 3.10 | 0.0 | 3.40 | 0.0 | 3.95 | 0.0 | 4.72 | 0.0 |
| 100 | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | | Rad.=1.04. | |
| *37.5 | 10.00 | 0.0 | 12.00 | 0.0 | 16.00 | 0.0 | 20.00 | 0.0 |

| Per cent of chord. | Ref. No. 155. | | Ref. No. 156. | | Ref. No. 157. | | Ref. No. 158. | |
|---|---|---|---|---|---|---|---|---|
| | Eiffel 8. | | Eiffel 9. | | Eiffel 10. | | Eiffel 11. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 3.60 | 3.60 | 2.73 | 0.0 | 1.33 thick. | 0.0 |
| 1.25 | 0.66 | 0.12 | 6.35 | 1.0 | 2.96 | 0.32 | | 0.20 |
| 2.5 | 1.24 | 0.32 | 7.28 | 0.22 | 3.23 | 0.60 | | 0.40 |
| *5 | 2.40 | 0.70 | 8.60 | 0.21 | 3.75 | 1.17 | | 0.80 |
| 7.5 | 3.55 | 1.10 | 9.60 | 1.73 | 4.23 | 1.70 | | 1.20 |
| 10 | 4.55 | 1.40 | 10.45 | 3.25 | 4.68 | 2.23 | | 1.60 |
| 15 | 6.62 | 2.18 | 11.80 | 5.75 | 5.50 | 3.15 | | 2.30 |
| 20 | 8.45 | 3.00 | 12.70 | 7.35 | 6.14 | 3.90 | | 3.00 |
| 30 | 10.20 | 3.80 | 13.70 | 8.45 | 7.01 | 4.86 | | 3.96 |
| 40 | 10.65 | 4.05 | 13.75 | 8.33 | 7.18 | 5.27 | | 4.12 |
| 50 | 10.20 | 3.85 | 12.83 | 7.70 | 6.93 | 5.18 | | 3.64 |
| 60 | 9.18 | 3.50 | 11.25 | 6.70 | 6.23 | 4.56 | | 2.93 |
| 70 | 7.45 | 2.80 | 9.10 | 5.45 | 5.10 | 3.70 | | 2.19 |
| 80 | 5.26 | 1.95 | 6.64 | 4.00 | 3.70 | 2.55 | | 1.46 |
| 90 | 2.75 | 1.00 | 3.65 | 2.06 | 2.20 | 1.27 | | 0.76 |
| 95 | 1.43 | 0.45 | 2.12 | 1.30 | 1.43 | 0.65 | | 0.35 |
| 100 | 0.0 | 0.0 | 0.50 | 0.0 | 0.64 | 0.0 | | 0.0 |
| *3.75 | ..... | ..... | ..... | 0.0 | ..... | ..... | | ..... |

| Per cent of chord. | Ref. No. 159. Eiffel 12. | | Ref. No. 160. Eiffel 13. | | Ref. No. 161. Eiffel 13 bis. | | Ref. No. 162. Eiffel 14. | |
|---|---|---|---|---|---|---|---|---|
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.53 | 0.53 | 0.80 | .80 | 0.70 | 0.70 | 1.25 | 1.25 |
| 1.25 | 1.48 | 0.10 | 2.88 | 0.12 | 2.06 | 0.16 | 2.75 | 0.0 |
| 2.5 | 1.60 | 0.16 | 4.20 | 0.88 | 2.85 | 0.45 | 3.28 | 0.15 |
| 5 | 1.84 | 0.30 | 6.10 | 2.10 | 4.15 | 1.50 | 4.20 | 0.60 |
| 7.5 | 2.08 | 0.43 | 7.40 | 3.60 | 5.10 | 1.58 | 4.95 | 1.05 |
| 10 | 2.30 | 0.53 | 8.30 | 3.80 | 5.83 | 2.05 | 5.60 | 1.40 |
| 15 | 2.68 | 0.65 | 9.30 | 4.90 | 6.90 | 2.80 | 6.60 | 2.10 |
| 20 | 2.85 | 0.74 | 9.70 | 5.65 | 7.58 | 3.35 | 7.25 | 2.73 |
| 30 | 3.10 | 0.85 | 9.75 | 6.10 | 8.00 | 3.65 | 7.78 | 3.80 |
| 40 | 3.05 | 0.84 | 9.40 | 5.93 | 7.40 | 3.22 | 7.55 | 4.27 |
| 50 | 2.95 | 0.75 | 8.60 | 5.45 | 6.45 | 2.73 | 6.95 | 4.30 |
| 60 | 2.80 | 0.60 | 7.43 | 4.60 | 5.40 | 2.13 | 6.05 | 3.90 |
| 70 | 2.50 | 0.48 | 5.95 | 3.50 | 4.28 | 1.58 | 4.90 | 3.30 |
| 80 | 1.96 | 0.30 | 4.25 | 2.33 | 3.10 | 1.04 | 3.50 | 2.40 |
| 90 | 1.05 | 0.14 | 2.48 | 1.16 | 1.95 | 0.45 | 2.00 | 1.25 |
| 95 | 0.68 | 0.06 | 1.56 | 0.58 | 1.31 | 0.23 | 1.24 | 0.60 |
| 100 | 0.30 | 0.0 | 0.55 | 0.0 | 0.65 | 0.0 | 0.45 | 0.0 |

| Per cent of chord. | Ref. No. 163. Eiffel 15. | | Ref. No. 164. Eiffel 16. | | Ref. No. 165. Eiffel 16a. | | Ref. No. 166. Eiffel 16b. | |
|---|---|---|---|---|---|---|---|---|
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower | Upper. | Lower. |
| 0 | 1.90 | 1.90 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1.25 | 3.37 | 0.32 | 1.00 | 0.0 | 1.74 | 0.0 | 3.10 | 0.0 |
| 2.5 | 3.60 | 0.06 | 1.85 | 0.0 | 2.86 | 0.0 | 5.05 | 0.0 |
| 5 | 3.86 | 0.15 | 3.17 | 0.0 | 4.80 | 0.0 | 7.87 | 0.0 |
| 7.5 | 3.93 | 0.26 | 4.24 | 0.0 | 6.36 | 0.0 | 9.80 | 0.0 |
| 10 | 3.95 | 0.37 | 5.15 | 0.0 | 7.70 | 0.0 | 11.22 | 0.0 |
| 15 | 3.82 | 0.43 | 6.30 | 0 0 | 9.38 | 0.0 | 12.83 | 0.0 |
| 20 | 3.60 | 0.34 | 6.66 | 0.0 | 9.99 | 0.0 | 13.32 | 0.0 |
| 30 | 3.13 | 0.0 | 6.25 | 0.0 | 9.63 | 0.0 | 13.05 | 0.0 |
| 40 | 2.92 | 0.16 | 5.33 | 0.0 | 8.66 | 0.0 | 11.99 | 0.0 |
| 50 | 2.90 | 0.56 | 4.63 | 0.0 | 7.33 | 0.0 | 10.30 | 0.0 |
| 60 | 2.95 | 1.15 | 3.79 | 0.0 | 5.99 | 0.0 | 8.46 | 0.0 |
| 70 | 3.20 | 1.83 | 2.90 | 0.0 | 4.57 | 0.0 | 6.42 | 0.0 |
| 80 | 3.75 | 2.70 | 1.99 | 0.0 | 3.13 | 0.0 | 4.39 | 0.0 |
| 90 | 4.50 | 3.80 | 1.10 | 0.0 | 1.76 | 0.0 | 2.42 | 0.0 |
| 95 | 4.94 | 4.42 | 0.65 | 0.0 | 1.05 | 0.0 | 1.43 | 0.0 |
| 100 | 5.40 | 5.10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

| Per cent of chord. | Ref. No. 167. Eiffel 16c. | | Ref. No. 168. Eiffel 16d. | | Ref. No. 169. Eiffel 17. | | Ref. No. 170. Eiffel 18. | |
|---|---|---|---|---|---|---|---|---|
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | ..... | ..... |
| 1.25 | 4.75 | 0.0 | 7.25 | 0.0 | 0.83 | 0.0 | ..... | ..... |
| 2.5 | 7.20 | 0.0 | 10.15 | 0.0 | 1.25 | 0.0 | ..... | ..... |
| 5 | 10.57 | 0.0 | 13.65 | 0.0 | 2.06 | 0.0 | ..... | ..... |
| 7.5 | 12.80 | 0.0 | 15.93 | 0.0 | 2.80 | 0.0 | ..... | ..... |
| 10 | 14.38 | 0.0 | 17.56 | 0.0 | 3.53 | 0.0 | ..... | ..... |
| 15 | 16.10 | 0.0 | 19.42 | 0.0 | 4.75 | 0.0 | ..... | ..... |
| 20 | 16.65 | 0.0 | 19.99 | 0.0 | 5.66 | 0.0 | 6.65 | 0.0 |
| 30 | 16.05 | 0.0 | 19.37 | 0.0 | 6.54 | 0.0 | 6.50 | 0.0 |
| 40 | 14.66 | 0.0 | 17.99 | 0.0 | 6.54 | 0.0 | 6.10 | 0.0 |
| 50 | 12.86 | 0.0 | 15.83 | 0.0 | 6.00 | 0.0 | 5.35 | 0.0 |
| 60 | 10.66 | 0.0 | 12.99 | 0.0 | 5.30 | 0.0 | 4.35 | 0.0 |
| 70 | 8.00 | 0.0 | 9.83 | 0.0 | 4.18 | 0.0 | 3.35 | 0.0 |
| 80 | 5.33 | 0.0 | 6.66 | 0.0 | 3.00 | 0.0 | 2.35 | 0.0 |
| 90 | 2.84 | 0.0 | 3.50 | 0.0 | 1.75 | 0.0 | 1.40 | 0.0 |
| 95 | 1.56 | 0.0 | 1.90 | 0.0 | 1.10 | 0.0 | 0.90 | 0.0 |
| 100 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.40 | 0.0 |

| Per cent of chord. | Ref. No. 171. Eiffel 30. | | Ref. No. 172. Eiffel 31. | | Ref. No. 173. Eiffel 32. | | Ref. No. 174. Eiffel 33. | |
|---|---|---|---|---|---|---|---|---|
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.20 | 0.0 | 0.0 | 0.0 | 1.00 | 1.00 | 1.10 | 0.0 |
| 1.25 | 0.73 | 0.17 | 0.68 | 0.26 | 2.00 | 0.37 | 2.80 | 0.0 |
| 2.5 | 1.33 | 0.40 | 1.33 | 0.55 | 2.67 | 0.18 | 3.63 | 0.10 |
| 5 | 2.45 | 0.82 | 2.53 | 1.07 | 3.75 | 0.0 | 5.00 | 0.43 |
| 7.5 | 3.52 | 1.20 | 3.65 | 1.56 | 4.65 | 0.24 | 6.07 | 0.77 |
| 10 | 4.60 | 1.60 | 4.75 | 2.00 | 5.35 | 0.64 | 6.93 | 1.12 |
| 15 | 6.50 | 2.36 | 6.85 | 2.84 | 6.56 | 1.50 | 8.20 | 1.80 |
| 20 | 8.16 | 3.06 | 8.67 | 3.50 | 7.36 | 2.24 | 8.88 | 2.36 |
| 30 | 10.50 | 4.08 | 10.90 | 4.55 | 7.92 | 2.93 | 9.27 | 2.98 |
| 40 | 11.12 | 4.40 | 11.40 | 4.75 | 7.26 | 2.70 | 9.00 | 3.35 |
| 50 | 10.60 | 4.43 | 11.20 | 4.66 | 5.93 | 1.96 | 8.15 | 3.30 |
| 60 | 9.28 | 4.08 | 9.86 | 4.15 | 4.50 | 1.13 | 7.10 | 2.94 |
| 70 | 7.40 | 3.37 | 8.10 | 3.34 | 3.33 | 0.54 | 5.76 | 2.39 |
| 80 | 5.30 | 2.44 | 5.80 | 2.35 | 2.36 | 0.26 | 4.16 | 1.68 |
| 90 | 2.84 | 1.24 | 3.10 | 1.20 | 1.50 | 0.0 | 2.33 | 0.93 |
| 95 | 1.58 | 0.63 | 1.72 | 0.60 | 1.20 | 0.10 | 1.38 | 0.45 |
| 100 | 0.20 | 0.0 | 0.0 | 0.0 | 0.70 | 0.70 | 0.43 | 0.0 |

| Per cent of chord. | Ref. No. 175. | | Ref. No. 176. | | Ref. No. 177. | | Ref. No. 178. | |
|---|---|---|---|---|---|---|---|---|
| | Eiffel 34. | | Eiffel 35. | | Eiffel 36. | | Eiffel 37. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.50 | 0.50 | 0.90 | 0.90 | 0.70 | 0.70 | 3.00 | 3.00 |
| 1.25 | 1.65 | 0.10 | 2.28 | 0.08 | 1.90 | 0.23 | 3.60 | 1.80 |
| 2.5 | 2.30 | 0.41 | 2.66 | 0.26 | 2.84 | 0.05 | 4.06 | 1.00 |
| *5 | 3.62 | 1.06 | 3.33 | 0.95 | 4.30 | 0.04 | 4.88 | 0.18 |
| 7.5 | 4.90 | 1.67 | 4.03 | 1.56 | 5.28 | 0.15 | 5.60 | 0.02 |
| 10 | 6.13 | 2.20 | 4.66 | 2.00 | 6.05 | 0.35 | 6.28 | 0.30 |
| 15 | 8.25 | 3.45 | 5.76 | 2.76 | 7.05 | 0.76 | 7.25 | 1.06 |
| 20 | 10.00 | 4.45 | 6.66 | 3.33 | 7.80 | 1.15 | 7.95 | 2.00 |
| 30 | 11.90 | 5.40 | 7.70 | 4.32 | 8.66 | 1.78 | 8.50 | 3.30 |
| 40 | 12.40 | 5.70 | 8.00 | 4.74 | 8.78 | 2.10 | 8.24 | 3.96 |
| 50 | 11.50 | 5.20 | 7.95 | 5.00 | 8.40 | 2.30 | 7.60 | 4.10 |
| 60 | 9.82 | 4.20 | 7.34 | 4.74 | 7.46 | 2.15 | 6.76 | 3.95 |
| 70 | 7.95 | 3.30 | 6.22 | 4.33 | 5.92 | 1.86 | 5.55 | 3.50 |
| 80 | 5.85 | 2.30 | 4.24 | 3.00 | 4.23 | 1.33 | 4.00 | 2.65 |
| 90 | 3.56 | 1.20 | 2.16 | 1.40 | 2.34 | 0.70 | 2.33 | 1.50 |
| 95 | 2.32 | 0.63 | 1.16 | 0.67 | 1.40 | 0.40 | 1.40 | 0.83 |
| 100 | 1.00 | 0.0 | 0.10 | 0.10 | 0.40 | 0.0 | 0.0 | 0.0 |
| *4.4 | ..... | ..... | ..... | ..... | ..... | 0.0 | ..... | ..... |

| Per cent of chord. | Ref. No. 179. | | Ref. No. 180. | | Ref. No. 181. | | Ref. No. 182. | |
|---|---|---|---|---|---|---|---|---|
| | Eiffel 38. | | Eiffel 39. | | Eiffel 40. | | Eiffel 41. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.50 | 0.50 | 0.40 | 0.0 | 0.35 | 0.0 | 0.10 | 0.0 |
| 1.25 | 1.65 | 0.0 | 0.94 | 0.0 | 0.90 | 0.03 | 1.10 | 0.15 |
| 2.5 | 2.46 | 0.0 | 1.75 | 0.0 | 1.67 | 0.23 | 3.00 | 0.30 |
| 5 | 3.76 | 0.20 | 4.50 | 0.0 | 3.50 | 0.63 | 4.00 | 0.70 |
| 7.5 | 4.75 | 0.60 | 9.55 | 0.0 | 4.25 | 1.06 | 4.65 | 1.10 |
| 10 | 5.62 | 1.22 | 11.22 | 0.0 | 4.95 | 1.45 | 5.20 | 1.45 |
| 15 | 6.88 | 2.43 | 12.83 | 0.0 | 6.10 | 2.13 | 6.40 | 2.06 |
| 20 | 7.74 | 3.22 | 13.32 | 0.0 | 6.95 | 2.62 | 6.75 | 2.60 |
| 30 | 8.70 | 4.32 | 13.05 | 0.0 | 7.63 | 3.05 | 7.65 | 3.65 |
| 40 | 8.70 | 4.52 | 11.99 | 0.0 | 7.70 | 3.18 | 7.68 | 3.92 |
| 50 | 8.32 | 4.13 | 10.30 | 0.0 | 7.50 | 3.05 | 7.35 | 4.00 |
| 60 | 7.55 | 3.35 | 8.46 | 0.0 | 6.75 | 2.76 | 6.54 | 3.64 |
| 70 | 6.13 | 2.60 | 6.42 | 0.0 | 5.62 | 2.16 | 5.46 | 3.00 |
| 80 | 4.65 | 1.80 | 4.39 | 0.0 | 4.23 | 1.42 | 4.16 | 2.10 |
| 90 | 2.85 | 0.94 | 2.42 | 0.0 | 2.54 | 0.70 | 2.35 | 1.06 |
| 95 | 1.85 | 0.50 | 1.43 | 0.0 | 1.68 | 0.30 | 1.34 | 0.54 |
| 100 | 1.25 | 0.0 | 0.0 | 0.0 | 0.70 | 0.0 | 0.50 | 0.0 |

| Per cent of chord. | Ref. No. 183. | | Ref. No. 184. | | Ref. No. 185. | | Ref. No. 186. | |
|---|---|---|---|---|---|---|---|---|
| | Eiffel 42. | | Eiffel 43. | | Eiffel 44. | | Eiffel 45. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.13 | 0.0 | 0.13 | 0.0 | 1.05 | 1.05 | 1.38 | 1.38 |
| 1.25 | 1.08 | 0.25 | 1.08 | 0.25 | 2.10 | 0.0 | 3.74 | 0.02 |
| 2.5 | 2.80 | 0.50 | 2.80 | 0.50 | 2.20 | 0.05 | 4.72 | 0.0 |
| 5 | 6.15 | 0.93 | 6.15 | 0.93 | 2.45 | 0.23 | 5.62 | 0.03 |
| 7.5 | 7.54 | 1.33 | 7.54 | 1.33 | 2.73 | 0.45 | 6.45 | 0.48 |
| 10 | 8.68 | 1.68 | 8.68 | 1.68 | 3.13 | 0.78 | 7.20 | 1.32 |
| 15 | 10.24 | 2.30 | 10.24 | 2.30 | 4.23 | 1.77 | 7.95 | 3.27 |
| 20 | 10.90 | 2.90 | 10.90 | 2.90 | 6.30 | 2.93 | 8.30 | 4.10 |
| 30 | 10.90 | 3.64 | 10.90 | 3.64 | 9.08 | 4.00 | 8.55 | 4.37 |
| 40 | 10.47 | 3.84 | 10.47 | 3.84 | 8.70 | 3.90 | 8.10 | 4.06 |
| 50 | 9.55 | 3.90 | 9.55 | 3.90 | 7.80 | 3.35 | 7.33 | 3.75 |
| 60 | 8.30 | 3.63 | 8.30 | 3.63 | 6.16 | 2.45 | 6.25 | 3.18 |
| 70 | 6.75 | 3.14 | 6.75 | 3.14 | 4.22 | 1.45 | 5.10 | 2.46 |
| 80 | 4.86 | 2.25 | 4.86 | 2.25 | 2.45 | 0.67 | 3.80 | 1.68 |
| 90 | 2.86 | 1.20 | 2.86 | 1.20 | 1.14 | 0.14 | 2.26 | 0.83 |
| 95 | 1.73 | 0.55 | 1.73 | 0.55 | 0.63 | 0.02 | 1.44 | 0.40 |
| 100 | 0.53 | 0.0 | 0.53 | 0.0 | 0.30 | 0.0 | 0.60 | 0.0 |

| Per cent of chord. | Ref. No. 187. | | Ref. No. 188. | | Ref. No. 189. | | Ref. No. 190. | |
|---|---|---|---|---|---|---|---|---|
| | Eiffel 46. | | Eiffel 47. | | Eiffel 48. | | Eiffel 49. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 1.25 | 1.25 | 0.75 | 0.75 | 0.60 | 0.60 | 0.40 | 0.40 |
| 1.25 | 2.30 | 0.08 | 2.35 | 0.06 | 2.55 | 0.14 | 2.12 | 0.0 |
| 2.5 | 3.24 | 0.0 | 3.30 | 0.30 | 3.78 | 0.38 | 2.86 | 0.13 |
| 5 | 5.07 | 0.32 | 4.93 | 0.78 | 5.40 | 0.80 | 4.00 | 0.56 |
| 7.5 | 6.30 | 1.05 | 6.23 | 1.20 | 6.30 | 1.17 | 4.78 | 0.95 |
| 10 | 6.96 | 1.90 | 7.12 | 1.60 | 6.65 | 1.50 | 5.38 | 1.30 |
| 15 | 9.30 | 3.40 | 8.16 | 2.26 | 6.42 | 2.03 | 6.10 | 1.90 |
| 20 | 10.60 | 4.70 | 8.68 | 2.75 | 6.08 | 2.40 | 6.26 | 2.27 |
| 30 | 10.93 | 6.10 | 8.30 | 3.38 | 5.25 | 2.85 | 5.58 | 2.75 |
| *40 | 10.40 | 6.40 | 7.45 | 3.85 | 7.82 | 2.95 | 6.64 | 2.95 |
| 50 | 9.24 | 6.00 | 6.03 | 4.00 | 7.40 | 2.80 | 6.53 | 2.94 |
| 60 | 7.65 | 4.8 | 8.93 | 3.75 | 5.56 | 2.45 | 5.53 | 2.80 |
| *70 | 5.75 | 3.32 | 7.95 | 3.15 | 5.85 | 2.00 | 5.40 | 2.40 |
| 80 | 3.65 | 1.76 | 5.90 | 2.20 | 6.53 | 1.43 | 5.55 | 1.66 |
| 90 | 1.70 | 0.60 | 3.70 | 1.16 | 4.10 | 0.78 | 3.75 | 0.85 |
| 95 | 1.00 | 0.16 | 2.45 | 0.56 | 2.72 | 0.40 | 2.37 | 0.40 |
| 100 | 0.50 | 0.0 | 1.15 | 0.0 | 1.30 | 0.0 | 0.85 | 0.0 |
| *33.9 | ..... | ..... | ..... | ..... | ..... | ..... | 4.92 | 2.95 |
| *66.82 | ..... | ..... | ..... | ..... | ..... | ..... | 4.28 | 2.31 |

| Per cent of chord. | Ref. No. 191. | | Ref. No. 192. | | Ref. No. 193. | | Ref. No. 194. | |
|---|---|---|---|---|---|---|---|---|
| | Eiffel 52. | | Eiffel 53. | | Eiffel 54. | | Eiffel 55. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.70 | 0.70 | 0.30 | 0.30 | 0.60 | 0.60 | 0.67 | 0.67 |
| 1.25 | 2.00 | 0.30 | 1.82 | 0.14 | 1.70 | 0.11 | 1.32 | 0.20 |
| 2.5 | 3.00 | 0.20 | 2.82 | 0.30 | 2.50 | 0.0 | 1.56 | 0.13 |
| 5 | 4.40 | 0.05 | 4.33 | 0.66 | 3.75 | 0.05 | 2.00 | 0.03 |
| 7.5 | 5.43 | 0.07 | 5.36 | 1.00 | 4.70 | 0.15 | 2.36 | 0.0 |
| 10 | 6.20 | 0.30 | 6.14 | 1.35 | 5.40 | 0.30 | 2.70 | 0.0 |
| 15 | 7.33 | 1.00 | 7.15 | 1.83 | 6.35 | 0.62 | 3.30 | 0.02 |
| 20 | 8.10 | 1.85 | 7.85 | 2.10 | 6.70 | 0.80 | 3.75 | 0.06 |
| 30 | 9.13 | 3.00 | 8.70 | 2.70 | 6.50 | 1.00 | 4.44 | 0.28 |
| 40 | 9.54 | 3.50 | 8.86 | 2.80 | 6.00 | 1.17 | 4.92 | 0.40 |
| 50 | 9.40 | 3.54 | 8.55 | 2.60 | 5.25 | 1.15 | 5.10 | 0.22 |
| 60 | 8.60 | 2.65 | 7.40 | 2.40 | 4.50 | 1.05 | 4.95 | 0.08 |
| 70 | 6.96 | 1.57 | 5.76 | 1.30 | 3.60 | 0.54 | 4.38 | 0.03 |
| 80 | 4.53 | 0.58 | 3.97 | 0.60 | 2.65 | 0.06 | 3.55 | 0.01 |
| 90 | 2.00 | 0.03 | 2.10 | 0.13 | 1.90 | 0.21 | 2.45 | 0.0 |
| 95 | 1.26 | 0.0 | 1.35 | 0.04 | 1.71 | 0.56 | 1.80 | 0.03 |
| 100 | 0.65 | 0.0 | 0.50 | 0.0 | 1.65 | 1.00 | 0.70 | 0.70 |

| Per cent of chord. | Ref. No. 195. | | Ref. No. 196. | | Ref. No. 197. | | Ref. No. 198. | |
|---|---|---|---|---|---|---|---|---|
| | Eiffel 56. | | Eiffel 57. | | Eiffel 58. | | Eiffel 59. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 8.00 | 8.00 | 4.10 | 4.10 | 0.60 | 0.60 |
| 1.25 | 0.70 | −0.64 | 12.70 | 3.50 | 7.06 | 1.14 | 1.95 | 0.15 |
| 2.5 | 0.90 | −0.66 | 14.72 | 2.00 | 7.90 | 0.35 | 2.83 | 0.45 |
| 5 | 1.30 | −0.70 | 17.55 | 0.50 | 8.90 | 0.0 | 4.46 | 1.03 |
| 7.5 | 1.62 | −0.77 | 19.30 | 0.0 | 9.56 | 0.0 | 5.90 | 1.53 |
| 10 | 1.90 | −0.85 | 20.60 | 0.0 | 9.90 | 0.0 | 7.13 | 2.00 |
| *15 | 2.36 | −1.00 | 22.40 | 0.0 | 9.92 | 0.0 | 9.37 | 2.84 |
| 20 | 2.66 | −1.13 | 23.12 | 0.0 | 9.50 | 0.0 | 10.87 | 3.50 |
| 30 | 2.85 | −1.55 | 22.00 | 0.0 | 8.50 | 0.0 | 13.30 | 4.55 |
| 40 | 2.86 | −1.92 | 19.74 | 0.0 | 7.50 | 0.0 | 14.20 | 4.75 |
| 50 | 2.85 | −2.24 | 16.94 | 0.0 | 6.43 | 0.0 | 13.66 | 4.66 |
| 60 | 2.76 | −2.35 | 13.90 | 0.0 | 5.27 | 0.0 | 12.13 | 4.15 |
| 70 | 2.50 | −2.40 | 10.60 | 0.0 | 4.05 | 0.0 | 9.75 | 3.34 |
| 80 | 1.94 | −2.20 | 7.20 | 0.0 | 2.85 | 0.0 | 7.07 | 2.35 |
| 90 | 1.32 | −1.70 | 3.78 | 0.0 | 1.62 | 0.0 | 3.72 | 1.20 |
| 95 | 0.90 | −1.20 | 2.05 | 0.0 | 1.00 | 0.0 | 2.05 | 0.60 |
| 100 | 0.0 | 0.0 | 0.35 | 0.0 | 0.20 | 0.20 | 0.30 | 0.0 |
| *12.5 | ..... | ..... | ..... | ..... | 10.00 | 0.0 | ..... | ..... |

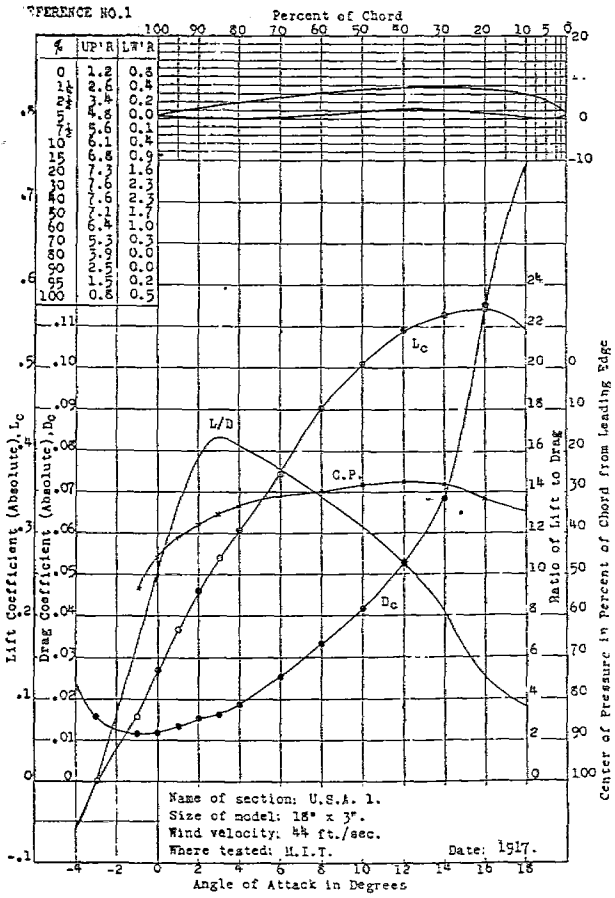
| Per cent of chord. | Ref. No. 199. | | Ref. No. 200. | | Ref. No. 201. | | Ref. No. 202. | |
|---|---|---|---|---|---|---|---|---|
| | Eiffel 60. | | Eiffel 61. | | Eiffel 62. | | Dorand. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 0.60 | 1.00 | 1.00 |
| 1.25 | 2.22 | 0.15 | 2.30 | 0.15 | 2.40 | 0.15 | 2.25 | 0.03 |
| 2.5 | 3.37 | 0.45 | 3.73 | 0.45 | 3.94 | 0.45 | 2.70 | 0.23 |
| 5 | 5.50 | 1.03 | 6.18 | 1.03 | 6.80 | 1.03 | 3.50 | 0.63 |
| 7.5 | 7.28 | 1.53 | 8.33 | 1.53 | 9.34 | 1.53 | 4.25 | 1.06 |
| 10 | 8.87 | 2.00 | 10.26 | 2.00 | 11.70 | 2.00 | 4.95 | 1.45 |
| 15 | 11.57 | 2.84 | 13.63 | 2.84 | 15.56 | 2.84 | 6.10 | 2.13 |
| 20 | 13.73 | 3.50 | 16.40 | 3.50 | 18.60 | 3.50 | 6.95 | 2.62 |
| 30 | 16.55 | 4.55 | 19.87 | 4.55 | 23.00 | 4.55 | 7.63 | 3.05 |
| 40 | 17.73 | 4.75 | 21.06 | 4.75 | 24.53 | 4.75 | 7.70 | 3.18 |
| 50 | 16.84 | 4.66 | 19.85 | 4.66 | 23.00 | 4.66 | 7.50 | 3.05 |
| 60 | 15.00 | 4.15 | 17.33 | 4.15 | 19.90 | 4.15 | 6.75 | 2.76 |
| 70 | 12.15 | 3.34 | 13.65 | 3.34 | 16.00 | 3.34 | 5.62 | 2.16 |
| 80 | 8.73 | 2.35 | 9.67 | 2.35 | 11.33 | 2.35 | 4.23 | 1.42 |
| 90 | 4.65 | 1.20 | 5.15 | 1.20 | 6.03 | 1.20 | 2.54 | 0.70 |
| 95 | 2.50 | 0.60 | 2.75 | 0.60 | 3.20 | 0.60 | 1.68 | 0.30 |
| 100 | 0.35 | 0.0 | 0.40 | 0.0 | 0.40 | 0.0 | 0.70 | 0.0 |

| Per cent of chord. | Ref. No. 203. | | Ref. No. 204. | | Ref. No. 205. | | Ref. No. 206. | |
|---|---|---|---|---|---|---|---|---|
| | Halbronn 2. | | Halbronn 3. | | S. E. A. | | St. Cyr. 1. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 2.73 | 2.73 | 0.75 | 0.75 | 0.90 | 0.90 | 0.25 | 0.25 |
| 1.25 | 3.72 | 1.35 | 1.70 | 0.25 | 2.00 | 0.50 | 0.70 | 0.0 |
| 2.5 | 4.52 | 0.66 | 2.36 | 0.0 | 2.80 | 0.33 | 0.96 | 0.0 |
| 5 | 5.66 | 0.0 | 3.39 | 0.0 | 4.05 | 0.08 | 1.45 | 0.0 |
| 7.5 | 6.55 | 0.0 | 4.30 | 0.08 | 4.90 | 0.0 | 1.88 | 0.0 |
| 10 | 7.27 | 0.0 | 4.99 | 0.18 | 5.55 | 0.10 | 2.26 | 0.0 |
| 15 | 8.00 | 0.10 | 5.90 | 0.40 | 6.45 | 0.35 | 2.76 | 0.0 |
| 20 | 8.30 | 0.37 | 6.41 | 0.56 | 6.95 | 0.65 | 3.00 | 0.0 |
| 30 | 8.48 | 0.66 | 6.78 | 0.94 | 7.30 | 1.00 | 3.10 | 0.0 |
| 40 | 8.12 | 0.75 | 6.60 | 1.22 | 7.20 | 0.95 | 3.10 | 0.0 |
| 50 | 7.36 | 0.66 | 6.02 | 0.94 | 6.90 | 0.65 | 3.10 | 0.0 |
| 60 | 6.42 | 0.48 | 5.18 | 0.66 | 6.27 | 0.27 | 3.10 | 0.0 |
| 70 | 5.28 | 0.23 | 4.20 | 0.37 | 5.42 | 0.12 | 3.10 | 0.0 |
| 80 | 4.20 | 0.09 | 3.15 | 0.19 | 4.10 | 0.08 | 3.00 | 0.0 |
| 90 | 2.64 | 0.0 | 1.85 | 0.0 | 2.25 | 0.03 | 2.11 | 0.0 |
| 95 | 1.63 | 0.15 | 1.15 | 0.05 | 1.20 | 0.0 | 1.38 | 0.0 |
| 100 | 0.47 | 0.47 | 0.47 | 0.19 | 0.0 | 0.0 | 0.25 | 0.25 |

| Per cent of chord. | Ref. No. 207. | | Ref. No. 208. | | Ref. No. 209. | | Ref. No. 210. | |
|---|---|---|---|---|---|---|---|---|
| | St. Cyr. 2. | | St. Cyr. 3. | | Turin 1. | | Turin 2. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 1.10 | 1.10 | 2.30 | 2.30 | 0.65 | 0.65 | 0.60 | 0.60 |
| 1.25 | 2.00 | 0.25 | 3.65 | 1.25 | 1.85 | 0.0 | 1.80 | 0.05 |
| 2.5 | 2.45 | 0.0 | 4.60 | 0.60 | 2.52 | 0.10 | 2.55 | 0.15 |
| 5 | 3.25 | 0.50 | 5.85 | 0.0 | 3.60 | 0.30 | 3.80 | 0.55 |
| 7.5 | 3.85 | 1.10 | 6.60 | 0.40 | 4.42 | 0.60 | 4.65 | 0.95 |
| 10 | 4.25 | 1.70 | 7.20 | 1.00 | 5.00 | 0.90 | 5.25 | 1.30 |
| 15 | 5.05 | 2.50 | 8.00 | 2.10 | 5.55 | 1.35 | 5.80 | 1.75 |
| 20 | 5.65 | 3.00 | 8.50 | 3.10 | 5.75 | 1.60 | 6.07 | 2.00 |
| 30 | 6.40 | 3.50 | 9.35 | 4.60 | 5.80 | 1.70 | 6.20 | 2.10 |
| 40 | 6.25 | 3.25 | 9.85 | 5.25 | 5.70 | 1.60 | 5.90 | 1.75 |
| 50 | 5.75 | 2.85 | 9.80 | 5.20 | 5.15 | 1.35 | 5.50 | 1.40 |
| 60 | 4.95 | 2.40 | 9.40 | 4.45 | 4.28 | 0.80 | 4.82 | 1.10 |
| 70 | 4.00 | 1.90 | 8.20 | 3.30 | 3.30 | 0.40 | 3.95 | 0.70 |
| 80 | 2.90 | 1.25 | 5.85 | 1.95 | 2.35 | 0.0 | 3.15 | 0.50 |
| 90 | 1.70 | 0.65 | 2.90 | 0.40 | 1.40 | 0.0 | 1.90 | 0.20 |
| 95 | 1.10 | 0.30 | 1.85 | 0.0 | 1.00 | 0.0 | 1.29 | 0.05 |
| 100 | 0.30 | 0.30 | 1.00 | 1.00 | 0.40 | 0.40 | 0.40 | 0.40 |

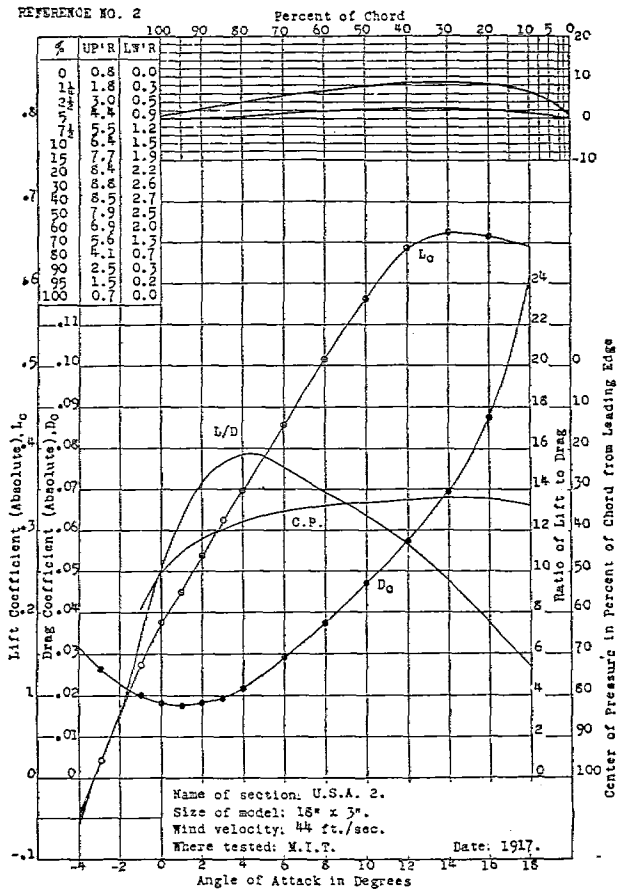
| Per cent of chord. | Ref. No. 211. | | Ref. No. 212. | | Ref. No. 213. | | Ref. No. 214. | |
|---|---|---|---|---|---|---|---|---|
| | Bleriot 3-pl. | | Italian 1. | | Italian 2. | | Italian 3. | |
| | Ordinates. | | | | | | | |
| | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. | Upper. | Lower. |
| 0 | 0.0 | 0.0 | 0.58 | 0.58 | 0.80 | 0.80 | 0.65 | 0.65 |
| 1.25 | 2.40 | 0.0 | 1.40 | 0.10 | 1.60 | 0.30 | 2.10 | 0.15 |
| 2.5 | 3.20 | 0.0 | 2.10 | 0.0 | 2.22 | 0.05 | 3.05 | 0.0 |
| 5 | 4.30 | 0.0 | 3.12 | 0.05 | 3.35 | 0.08 | 4.36 | 0.18 |
| 7.5 | 4.80 | 0.0 | 3.90 | 0.20 | 4.20 | 0.20 | 5.20 | 0.70 |
| 10 | 5.30 | 0.0 | 4.58 | 0.48 | 4.90 | 0.45 | 5.87 | 1.38 |
| 15 | 5.60 | 0.0 | 5.48 | 1.12 | 6.05 | 1.10 | 6.60 | 2.10 |
| 20 | 5.70 | 0.0 | 6.00 | 1.83 | 6.67 | 1.65 | 7.00 | 2.40 |
| 30 | 6.00 | 0.0 | 6.35 | 2.42 | 7.40 | 2.70 | 7.15 | 2.50 |
| 40 | 5.80 | 0.0 | 6.14 | 2.48 | 7.50 | 3.00 | 6.95 | 2.37 |
| 50 | 5.20 | 0.0 | 5.70 | 2.00 | 7.18 | 2.80 | 6.38 | 2.10 |
| 60 | 4.60 | 0.0 | 5.05 | 1.47 | 6.70 | 2.50 | 5.58 | 1.68 |
| 70 | 3.70 | 0.0 | 3.95 | 0.93 | 5.40 | 1.75 | 4.72 | 1.17 |
| 80 | 2.60 | 0.0 | 2.55 | 0.60 | 3.80 | 0.73 | 3.70 | 0.62 |
| 90 | 1.60 | 0.0 | 1.37 | 0.28 | 2.00 | 0.35 | 2.18 | 0.30 |
| 95 | 1.05 | 0.0 | 0.75 | 0.20 | 1.30 | 0.38 | 1.27 | 0.0 |
| 100 | 0.45 | 0.0 | 0.25 | 0.25 | 0.38 | 0.38 | 0.0 | 0.0 |

REFERENCE NO. 1



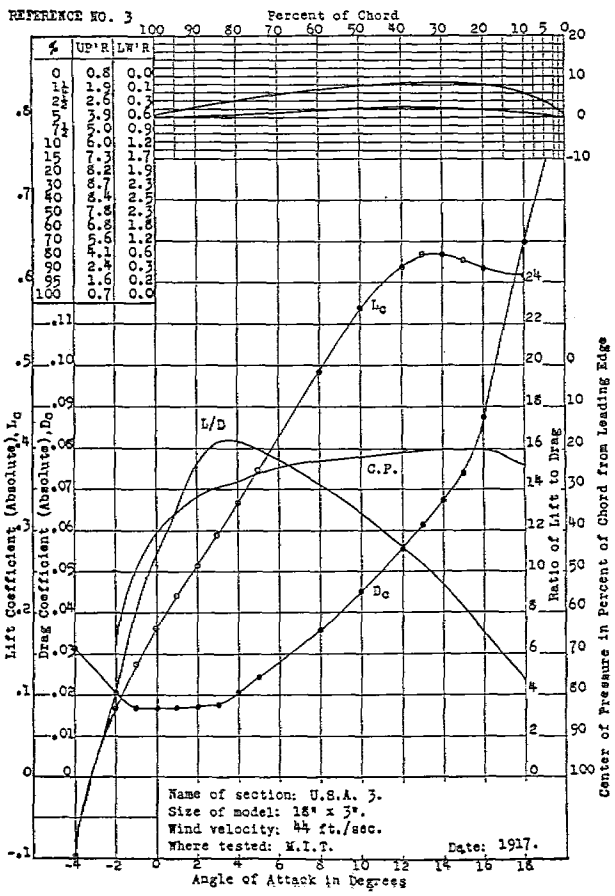

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.2 | 0.3 |
| 1¼ | 2.6 | 0.4 |
| 2½ | 3.4 | 0.2 |
| 5 | 4.8 | 0.0 |
| 7½ | 5.6 | 0.1 |
| 10 | 6.1 | 0.4 |
| 15 | 6.8 | 0.9 |
| 20 | 7.3 | 1.6 |
| 30 | 7.6 | 2.3 |
| 40 | 7.6 | 2.3 |
| 50 | 7.1 | 1.7 |
| 60 | 6.4 | 1.0 |
| 70 | 5.3 | 0.3 |
| 80 | 3.9 | 0.0 |
| 90 | 2.5 | 0.0 |
| 95 | 1.2 | 0.2 |
| 100 | 0.8 | 0.5 |

REFERENCE NO. 2



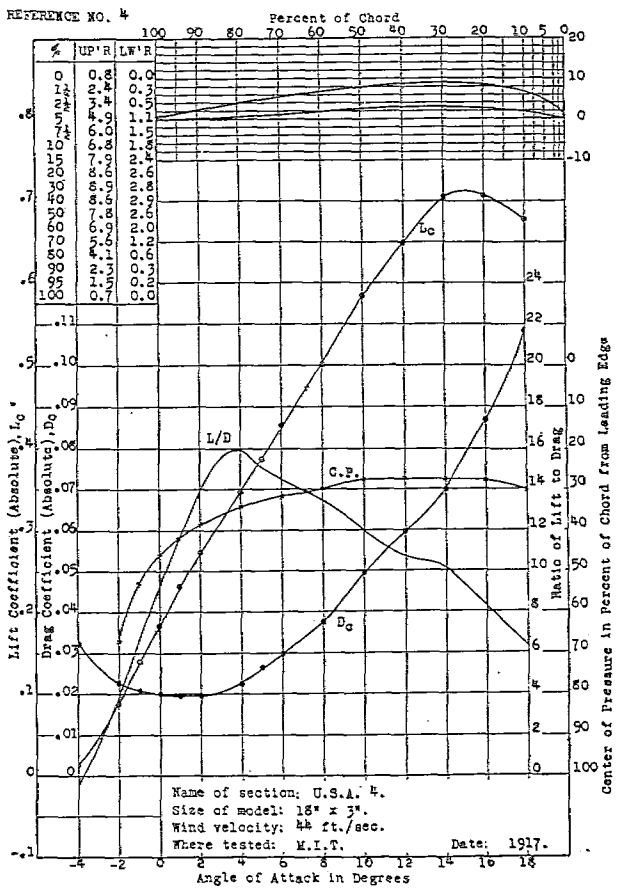

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.0 |
| 1¼ | 1.8 | 0.3 |
| 2½ | 3.0 | 0.5 |
| 5 | 4.4 | 0.9 |
| 7½ | 5.5 | 1.2 |
| 10 | 6.4 | 1.5 |
| 15 | 7.7 | 1.9 |
| 20 | 8.4 | 2.2 |
| 30 | 8.8 | 2.6 |
| 40 | 8.5 | 2.7 |
| 50 | 7.9 | 2.5 |
| 60 | 6.9 | 2.0 |
| 70 | 5.6 | 1.3 |
| 80 | 4.1 | 0.7 |
| 90 | 2.5 | 0.3 |
| 95 | 1.5 | 0.2 |
| 100 | 0.7 | 0.0 |

REFERENCE NO. 3



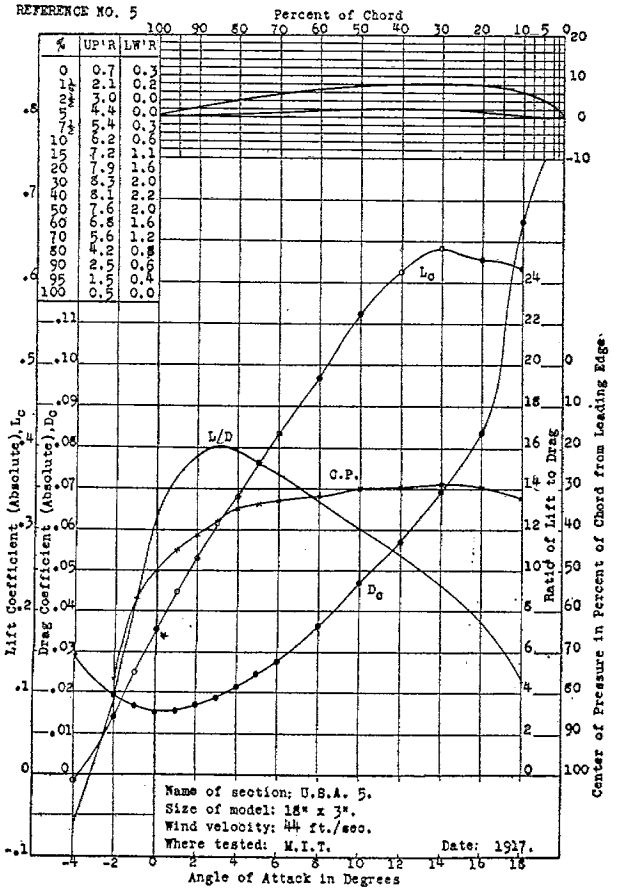

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.0 |
| 1¼ | 1.8 | 0.1 |
| 2½ | 2.6 | 0.3 |
| 5 | 3.9 | 0.6 |
| 7½ | 5.0 | 0.9 |
| 10 | 6.0 | 1.2 |
| 15 | 7.3 | 1.7 |
| 20 | 8.2 | 1.9 |
| 30 | 8.7 | 2.3 |
| 40 | 8.4 | 2.5 |
| 50 | 7.8 | 2.3 |
| 60 | 6.8 | 1.8 |
| 70 | 5.6 | 1.2 |
| 80 | 4.1 | 0.6 |
| 90 | 2.4 | 0.3 |
| 95 | 1.6 | 0.2 |
| 100 | 0.7 | 0.0 |

REFERENCE NO. 4



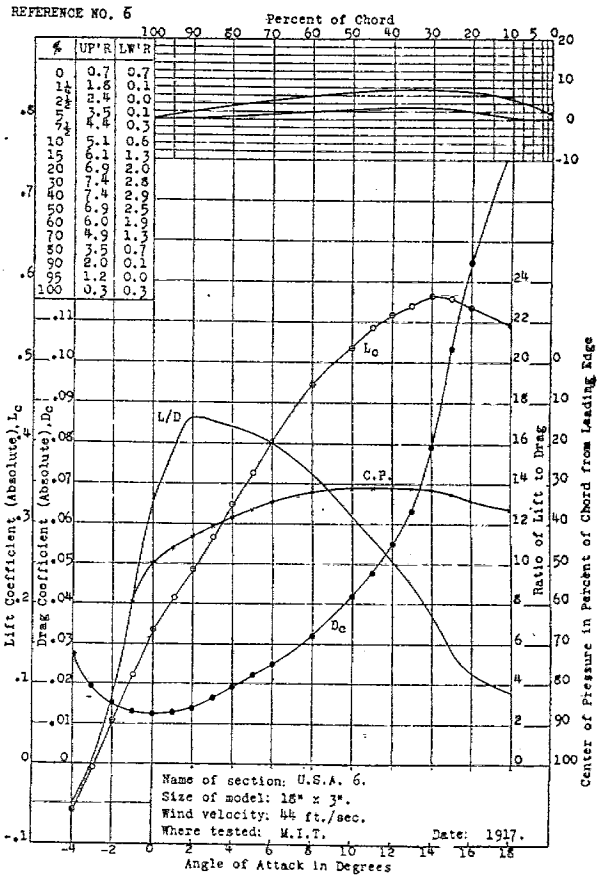

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.0 |
| 1¼ | 2.4 | 0.3 |
| 2½ | 3.4 | 0.5 |
| 5 | 4.9 | 1.1 |
| 7½ | 6.0 | 1.5 |
| 10 | 6.8 | 1.8 |
| 15 | 7.9 | 2.4 |
| 20 | 8.6 | 2.6 |
| 30 | 8.9 | 2.8 |
| 40 | 8.6 | 2.9 |
| 50 | 7.8 | 2.6 |
| 60 | 6.9 | 2.0 |
| 70 | 5.6 | 1.2 |
| 80 | 4.1 | 0.6 |
| 90 | 2.3 | 0.3 |
| 95 | 1.5 | 0.2 |
| 100 | 0.7 | 0.0 |

REFERENCE NO. 5



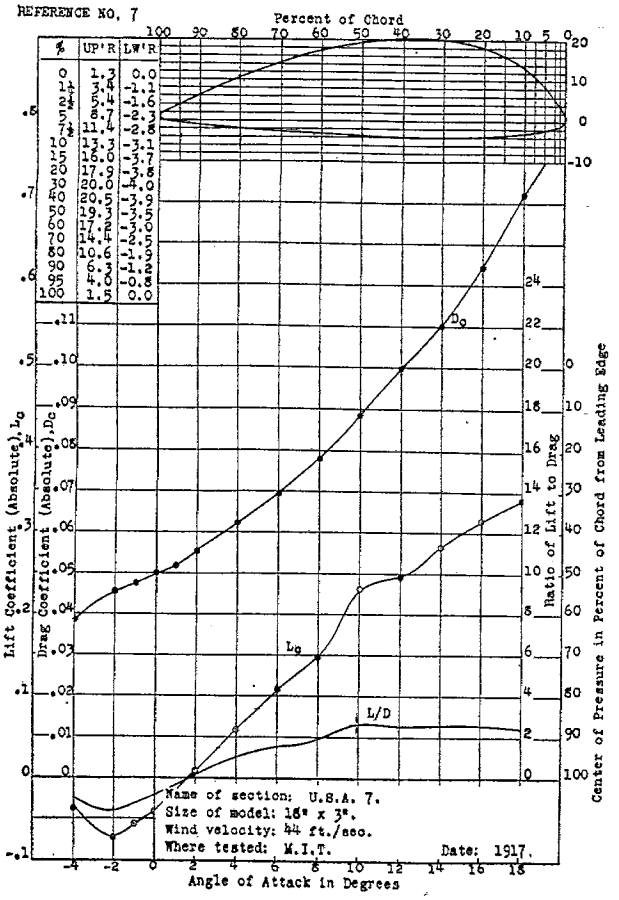

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.3 |
| 1¼ | 2.1 | 0.2 |
| 2½ | 3.0 | 0.0 |
| 5 | 4.4 | 0.0 |
| 7½ | 5.4 | 0.3 |
| 10 | 6.2 | 0.6 |
| 15 | 7.2 | 1.1 |
| 20 | 7.9 | 1.6 |
| 30 | 8.3 | 2.0 |
| 40 | 8.1 | 2.2 |
| 50 | 7.6 | 2.0 |
| 60 | 6.8 | 1.6 |
| 70 | 5.6 | 1.2 |
| 80 | 4.2 | 0.8 |
| 90 | 2.5 | 0.6 |
| 95 | 1.5 | 0.4 |
| 100 | 0.5 | 0.0 |

REFERENCE NO. 6



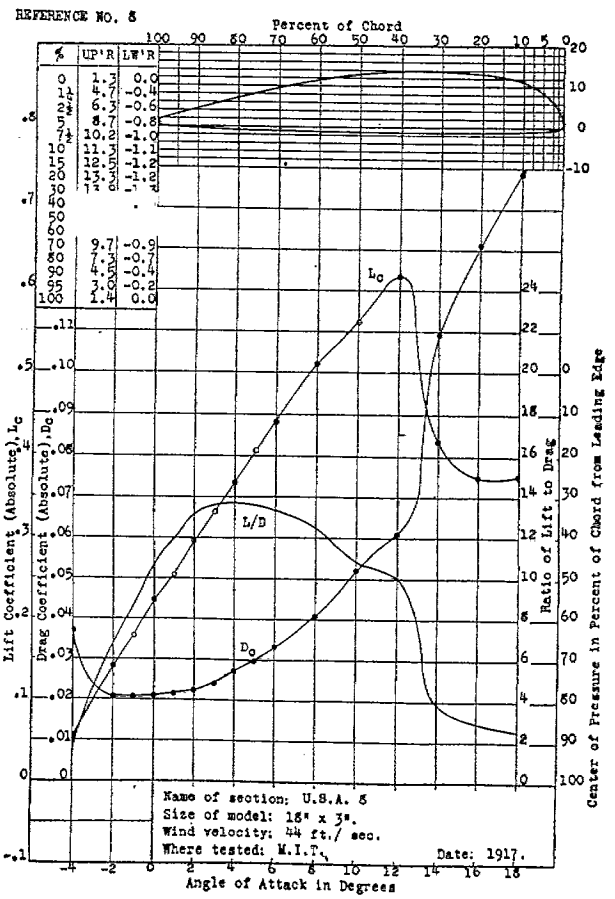

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 1.8 | 0.1 |
| 2½ | 2.4 | 0.0 |
| 5 | 3.5 | 0.1 |
| 7½ | 4.4 | 0.3 |
| 10 | 5.1 | 0.6 |
| 15 | 6.1 | 1.3 |
| 20 | 6.9 | 2.0 |
| 30 | 7.4 | 2.8 |
| 40 | 7.4 | 2.9 |
| 50 | 6.9 | 2.5 |
| 60 | 6.0 | 1.9 |
| 70 | 4.9 | 1.3 |
| 80 | 3.5 | 0.7 |
| 90 | 2.0 | 0.1 |
| 95 | 1.2 | 0.0 |
| 100 | 0.3 | 0.3 |

REFERENCE NO. 7



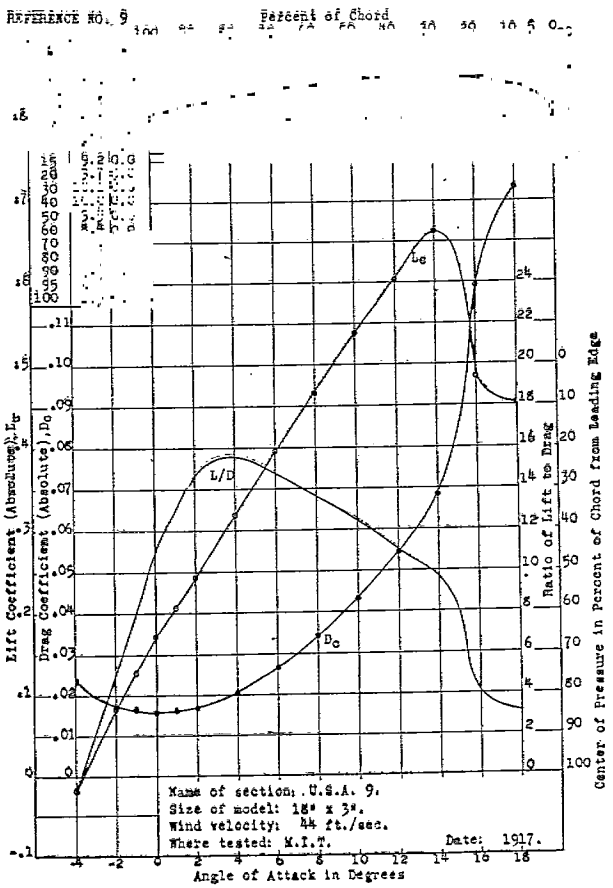

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 0.0 |
| 1¼ | 3.4 | -1.1 |
| 2½ | 5.4 | -1.6 |
| 5 | 8.7 | -2.3 |
| 7½ | 11.4 | -2.8 |
| 10 | 13.3 | -3.1 |
| 15 | 16.0 | -3.7 |
| 20 | 17.9 | -3.8 |
| 30 | 20.0 | -4.0 |
| 40 | 20.5 | -3.9 |
| 50 | 19.3 | -3.5 |
| 60 | 17.2 | -3.0 |
| 70 | 14.4 | -2.5 |
| 80 | 10.6 | -1.9 |
| 90 | 6.3 | -1.2 |
| 95 | 4.0 | -0.8 |
| 100 | 1.5 | 0.0 |

REFERENCE NO. 8



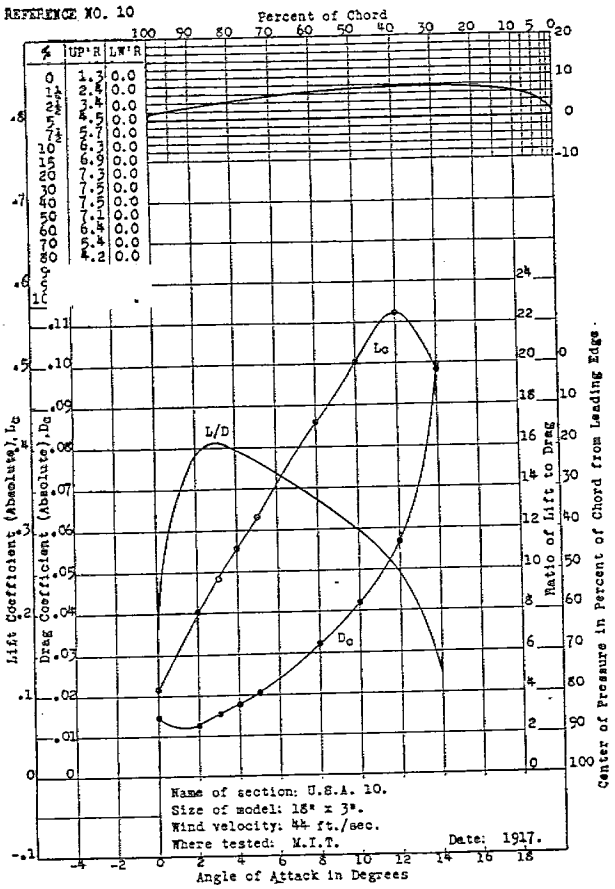

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 0.0 |
| 1¼ | 4.7 | -0.4 |
| 2½ | 6.3 | -0.6 |
| 5 | 8.7 | -0.8 |
| 7½ | 10.2 | -1.0 |
| 10 | 11.3 | -1.1 |
| 15 | 12.5 | -1.2 |
| 20 | 13.3 | -1.2 |
| 30 | 12.6 | [illegible] |
| 40 | | |
| 50 | | |
| 60 | | |
| 70 | 9.7 | -0.9 |
| 80 | 7.3 | -0.7 |
| 90 | 4.5 | -0.4 |
| 95 | 3.0 | -0.2 |
| 100 | 1.4 | 0.0 |

REFERENCE NO. 9



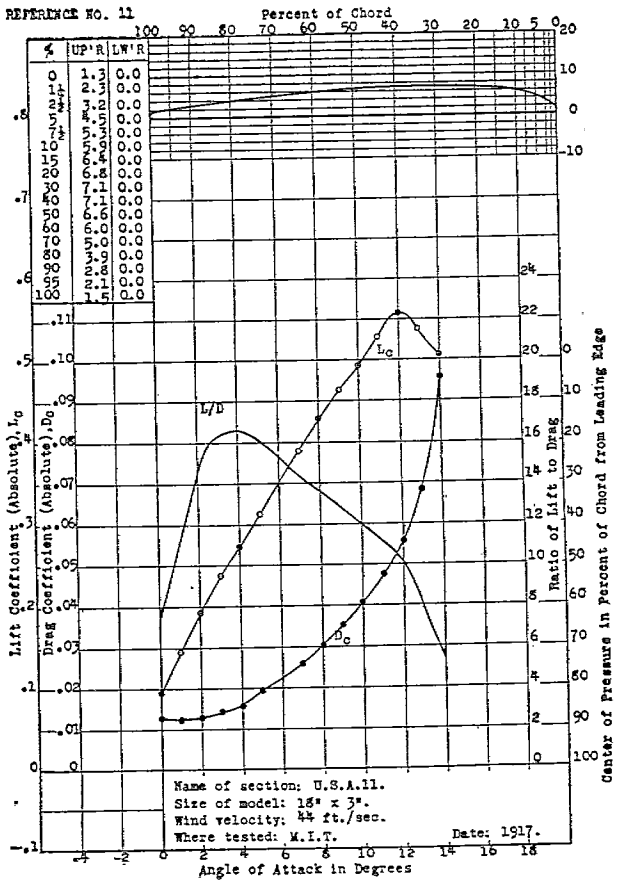

REFERENCE NO. 10

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 0.0 |
| 1¼ | 2.4 | 0.0 |
| 2½ | 3.4 | 0.0 |
| 5 | 4.5 | 0.0 |
| 7½ | 5.7 | 0.0 |
| 10 | 6.3 | 0.0 |
| 15 | 6.9 | 0.0 |
| 20 | 7.3 | 0.0 |
| 30 | 7.5 | 0.0 |
| 40 | 7.5 | 0.0 |
| 50 | 7.1 | 0.0 |
| 60 | 6.4 | 0.0 |
| 70 | 5.4 | 0.0 |
| 80 | 4.2 | 0.0 |



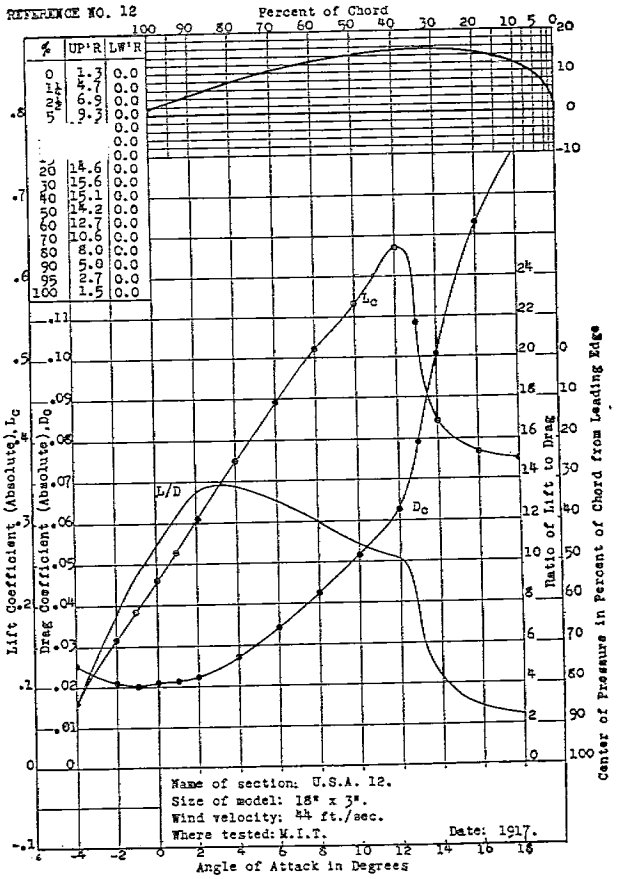

REFERENCE NO. 11

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 0.0 |
| 1¼ | 2.3 | 0.0 |
| 2½ | 3.2 | 0.0 |
| 5 | 4.5 | 0.0 |
| 7½ | 5.3 | 0.0 |
| 10 | 5.9 | 0.0 |
| 15 | 6.4 | 0.0 |
| 20 | 6.8 | 0.0 |
| 30 | 7.1 | 0.0 |
| 40 | 7.1 | 0.0 |
| 50 | 6.6 | 0.0 |
| 60 | 6.0 | 0.0 |
| 70 | 5.0 | 0.0 |
| 80 | 3.9 | 0.0 |
| 90 | 2.8 | 0.0 |
| 95 | 2.1 | 0.0 |
| 100 | 1.5 | 0.0 |

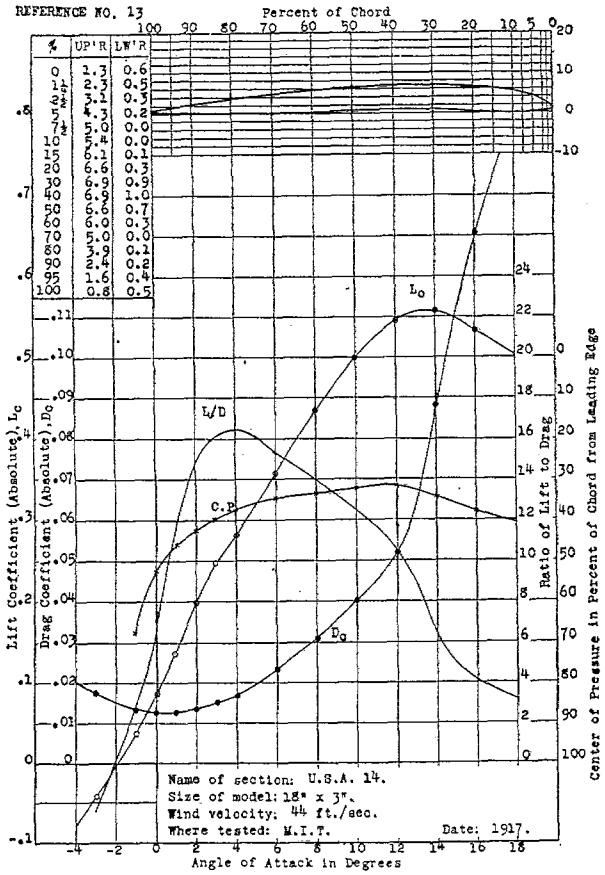



REFERENCE NO. 12

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 0.0 |
| 1¼ | 4.7 | 0.0 |
| 2½ | 6.9 | 0.0 |
| 5 | 9.3 | 0.0 |
| | | 0.0 |
| | | 0.0 |
| | | 0.0 |
| 20 | 14.6 | 0.0 |
| 30 | 15.6 | 0.0 |
| 40 | 15.1 | 0.0 |
| 50 | 14.2 | 0.0 |
| 60 | 12.7 | 0.0 |
| 70 | 10.6 | 0.0 |
| 80 | 8.0 | 0.0 |
| 90 | 5.0 | 0.0 |
| 95 | 2.7 | 0.0 |
| 100 | 1.5 | 0.0 |

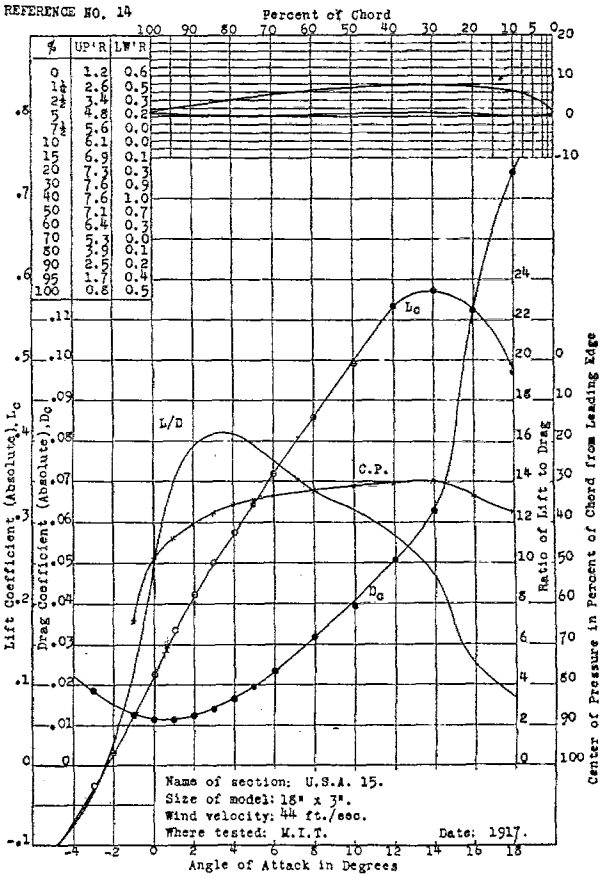


REFERENCE NO. 13



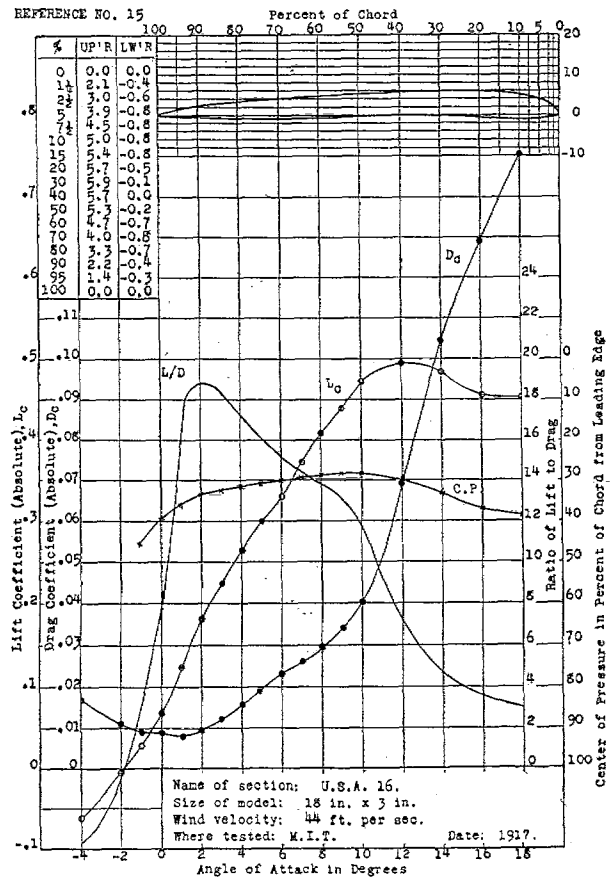

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 0.6 |
| 1¼ | 2.3 | 0.5 |
| 2½ | 3.1 | 0.3 |
| 5 | 4.3 | 0.2 |
| 7½ | 5.0 | 0.0 |
| 10 | 5.4 | 0.0 |
| 15 | 6.1 | 0.1 |
| 20 | 6.6 | 0.3 |
| 30 | 6.9 | 0.9 |
| 40 | 6.9 | 1.0 |
| 50 | 6.6 | 0.7 |
| 60 | 6.0 | 0.3 |
| 70 | 5.0 | 0.0 |
| 80 | 3.9 | 0.1 |
| 90 | 2.4 | 0.2 |
| 95 | 1.6 | 0.4 |
| 100 | 0.8 | 0.5 |

REFERENCE NO. 14



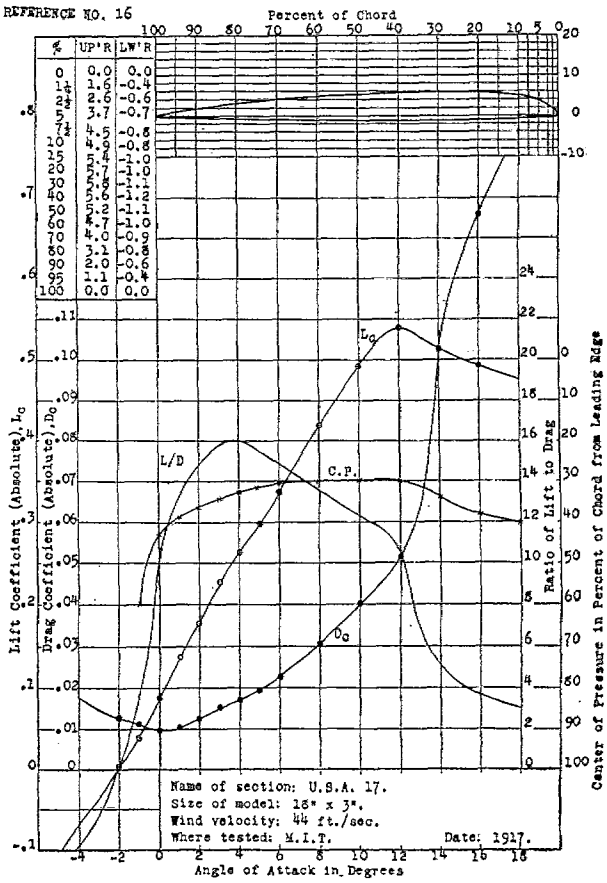

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.2 | 0.6 |
| 1¼ | 2.6 | 0.5 |
| 2½ | 3.4 | 0.3 |
| 5 | 4.8 | 0.2 |
| 7½ | 5.6 | 0.0 |
| 10 | 6.1 | 0.0 |
| 15 | 6.9 | 0.1 |
| 20 | 7.3 | 0.3 |
| 30 | 7.6 | 0.9 |
| 40 | 7.6 | 1.0 |
| 50 | 7.1 | 0.7 |
| 60 | 6.4 | 0.3 |
| 70 | 5.3 | 0.0 |
| 80 | 3.3 | 0.1 |
| 90 | 2.5 | 0.2 |
| 95 | 1.7 | 0.4 |
| 100 | 0.8 | 0.5 |

REFERENCE NO. 15




| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.1 | -0.4 |
| 2½ | 3.0 | -0.6 |
| 5 | 3.9 | -0.8 |
| 7½ | 4.5 | -0.8 |
| 10 | 5.0 | -0.8 |
| 15 | 5.4 | -0.8 |
| 20 | 5.7 | -0.5 |
| 30 | 5.9 | -0.1 |
| 40 | 5.7 | 0.0 |
| 50 | 5.3 | -0.2 |
| 60 | 4.7 | -0.7 |
| 70 | 4.0 | -0.8 |
| 80 | 3.3 | -0.7 |
| 90 | 2.2 | -0.4 |
| 95 | 1.4 | -0.3 |
| 100 | 0.0 | 0.0 |

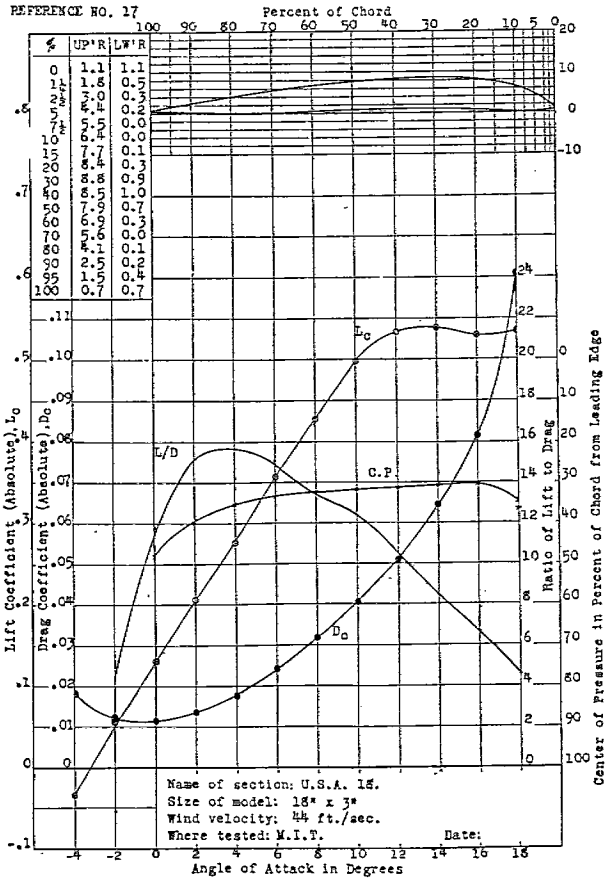
REFERENCE NO. 16




| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.6 | -0.4 |
| 2½ | 2.6 | -0.6 |
| 5 | 3.7 | -0.7 |
| 7½ | 4.5 | -0.8 |
| 10 | 4.9 | -0.8 |
| 15 | 5.4 | -1.0 |
| 20 | 5.7 | -1.0 |
| 30 | 5.8 | -1.1 |
| 40 | 5.6 | -1.2 |
| 50 | 5.2 | -1.1 |
| 60 | 4.7 | -1.0 |
| 70 | 4.0 | -0.9 |
| 80 | 3.1 | -0.8 |
| 90 | 2.0 | -0.6 |
| 95 | 1.1 | -0.4 |
| 100 | 0.0 | 0.0 |

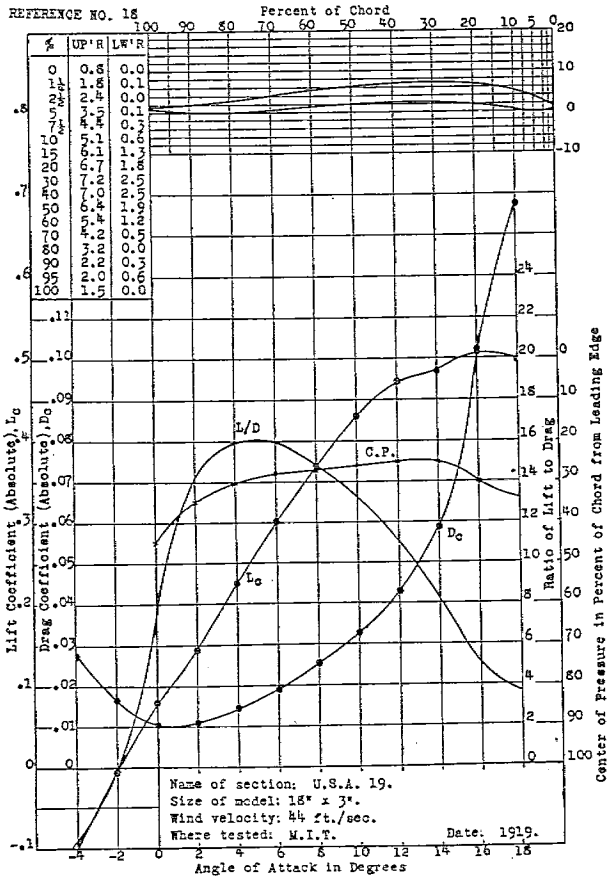
REFERENCE NO. 17

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.1 | 1.1 |
| 1¼ | 1.8 | 0.5 |
| 2½ | 3.0 | 0.3 |
| 5 | 4.4 | 0.2 |
| 7½ | 5.5 | 0.0 |
| 10 | 6.4 | 0.0 |
| 15 | 7.7 | 0.1 |
| 20 | 8.4 | 0.3 |
| 30 | 8.8 | 0.9 |
| 40 | 8.5 | 1.0 |
| 50 | 7.9 | 0.7 |
| 60 | 6.9 | 0.3 |
| 70 | 5.6 | 0.0 |
| 80 | 4.1 | 0.1 |
| 90 | 2.5 | 0.2 |
| 95 | 1.5 | 0.4 |
| 100 | 0.7 | 0.7 |



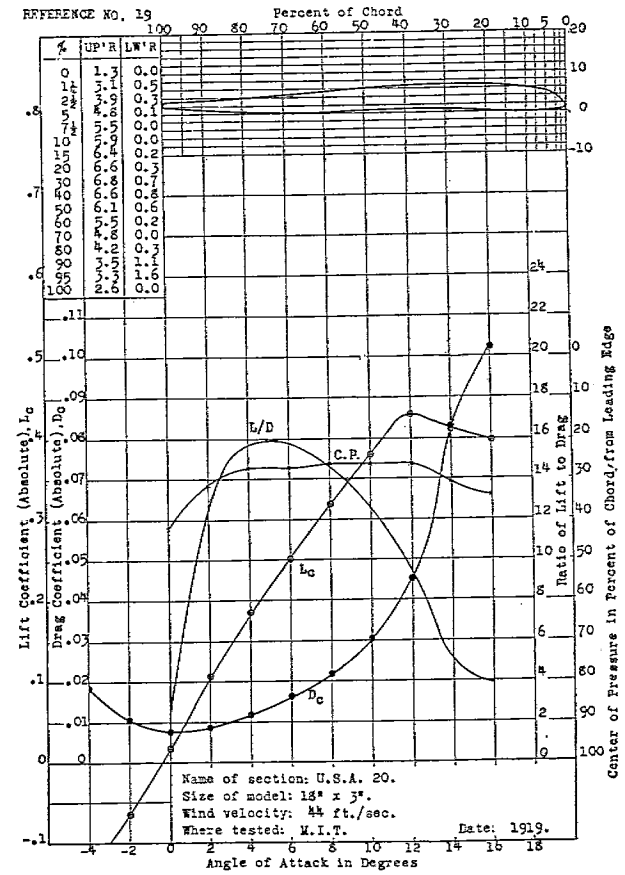

REFERENCE NO. 18

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.0 |
| 1¼ | 1.8 | 0.1 |
| 2½ | 2.4 | 0.0 |
| 5 | 3.5 | 0.1 |
| 7½ | 4.4 | 0.3 |
| 10 | 5.1 | 0.6 |
| 15 | 6.1 | 1.3 |
| 20 | 6.7 | 1.8 |
| 30 | 7.2 | 2.5 |
| 40 | 7.0 | 2.5 |
| 50 | 6.4 | 1.9 |
| 60 | 5.4 | 1.2 |
| 70 | 4.2 | 0.5 |
| 80 | 3.2 | 0.0 |
| 90 | 2.2 | 0.3 |
| 95 | 2.0 | 0.6 |
| 100 | 1.5 | 0.0 |



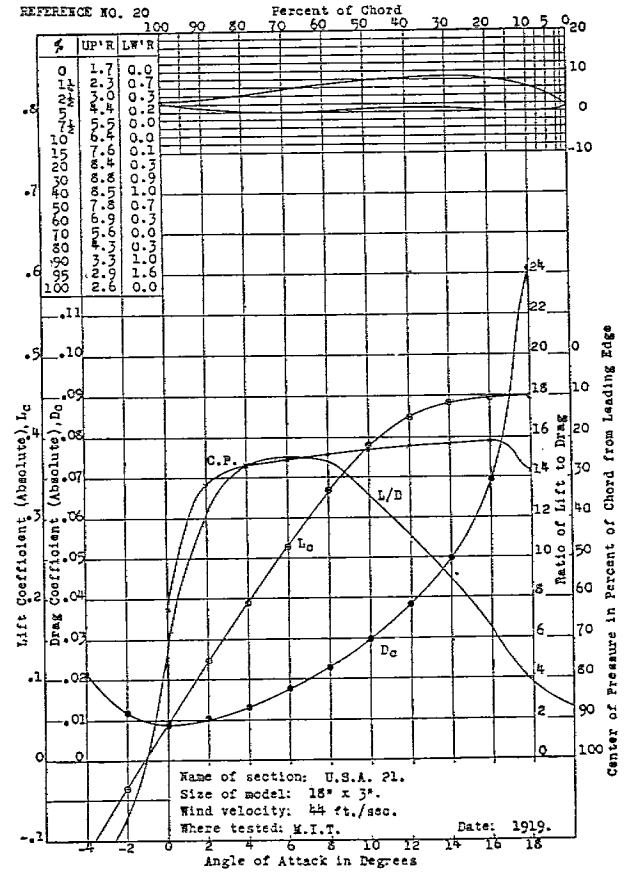

REFERENCE NO. 19

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 0.0 |
| 1¼ | 3.1 | 0.5 |
| 2½ | 3.9 | 0.3 |
| 5 | 4.8 | 0.1 |
| 7½ | 5.5 | 0.0 |
| 10 | 5.9 | 0.0 |
| 15 | 6.4 | 0.2 |
| 20 | 6.6 | 0.3 |
| 30 | 6.8 | 0.7 |
| 40 | 6.6 | 0.8 |
| 50 | 6.1 | 0.6 |
| 60 | 5.5 | 0.2 |
| 70 | 4.8 | 0.0 |
| 80 | 4.2 | 0.3 |
| 90 | 3.5 | 1.1 |
| 95 | 3.3 | 1.6 |
| 100 | 2.6 | 0.0 |

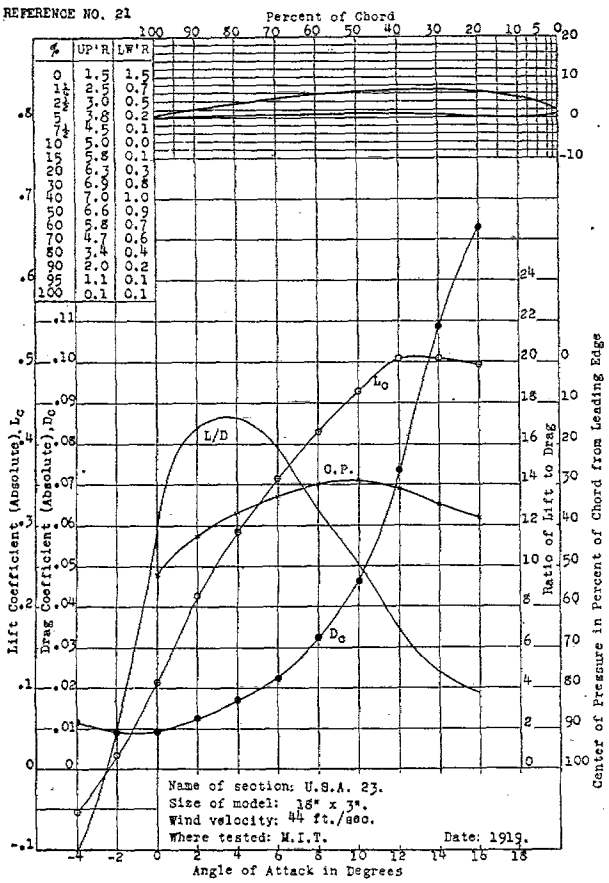



REFERENCE NO. 20

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.7 | 0.0 |
| 1¼ | 2.3 | 0.7 |
| 2½ | 3.0 | 0.3 |
| 5 | 4.4 | 0.2 |
| 7½ | 5.5 | 0.0 |
| 10 | 6.4 | 0.0 |
| 15 | 7.6 | 0.1 |
| 20 | 8.4 | 0.3 |
| 30 | 8.8 | 0.9 |
| 40 | 8.5 | 1.0 |
| 50 | 7.8 | 0.7 |
| 60 | 6.9 | 0.3 |
| 70 | 5.6 | 0.0 |
| 80 | 4.3 | 0.3 |
| 90 | 3.3 | 1.0 |
| 95 | 2.9 | 1.6 |
| 100 | 2.6 | 0.0 |

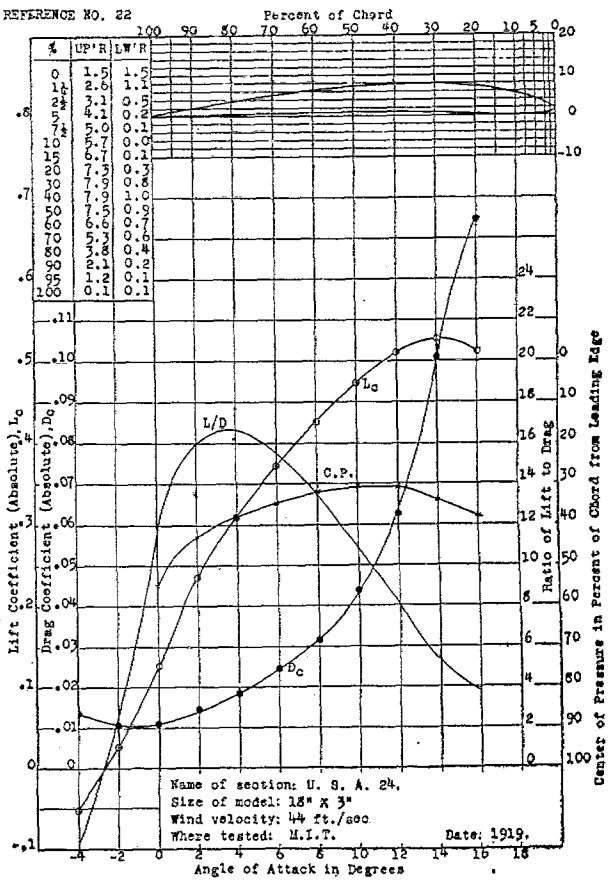


REFERENCE NO. 21



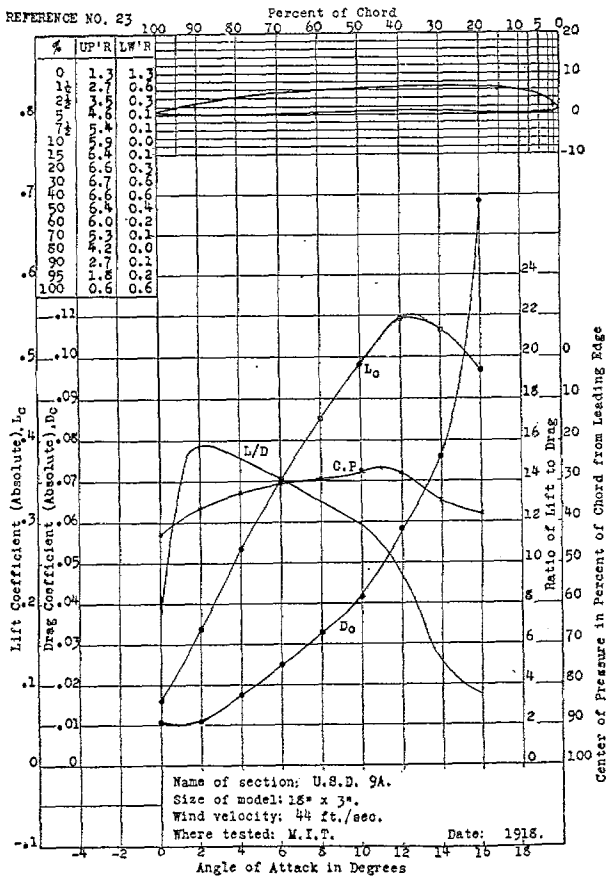

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.5 | 1.5 |
| 1¼ | 2.5 | 0.7 |
| 2½ | 3.0 | 0.5 |
| 5 | 3.8 | 0.2 |
| 7½ | 4.5 | 0.1 |
| 10 | 5.0 | 0.0 |
| 15 | 5.8 | 0.1 |
| 20 | 6.3 | 0.3 |
| 30 | 6.9 | 0.8 |
| 40 | 7.0 | 1.0 |
| 50 | 6.6 | 0.9 |
| 60 | 5.8 | 0.7 |
| 70 | 4.7 | 0.6 |
| 80 | 3.4 | 0.4 |
| 90 | 2.0 | 0.2 |
| 95 | 1.1 | 0.1 |
| 100 | 0.1 | 0.1 |

REFERENCE NO. 22



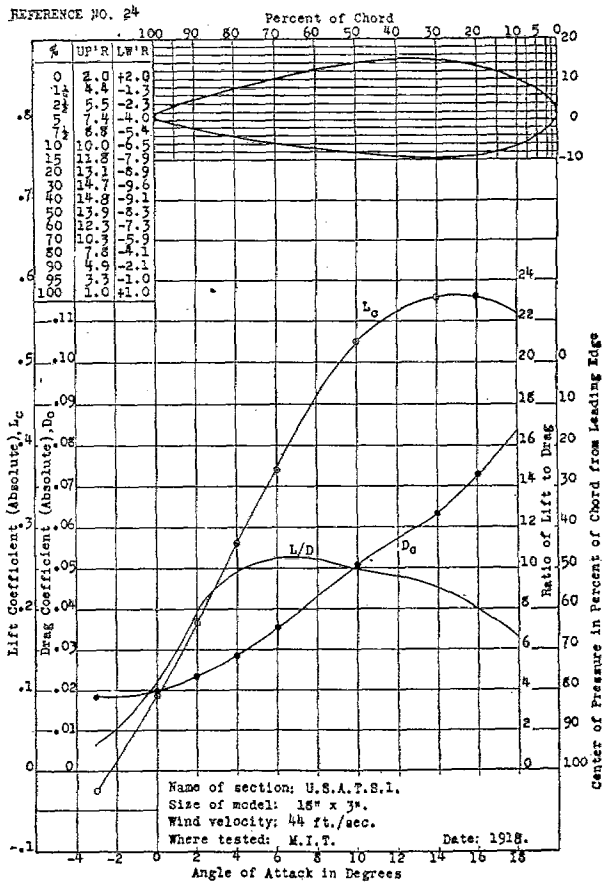

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.5 | 1.5 |
| 1¼ | 2.6 | 1.1 |
| 2½ | 3.1 | 0.5 |
| 5 | 4.1 | 0.2 |
| 7½ | 5.0 | 0.1 |
| 10 | 5.7 | 0.0 |
| 15 | 6.7 | 0.1 |
| 20 | 7.3 | 0.3 |
| 30 | 7.9 | 0.8 |
| 40 | 7.9 | 1.0 |
| 50 | 7.5 | 0.9 |
| 60 | 6.6 | 0.7 |
| 70 | 5.3 | 0.6 |
| 80 | 3.8 | 0.4 |
| 90 | 2.1 | 0.2 |
| 95 | 1.2 | 0.1 |
| 100 | 0.1 | 0.1 |

REFERENCE NO. 23



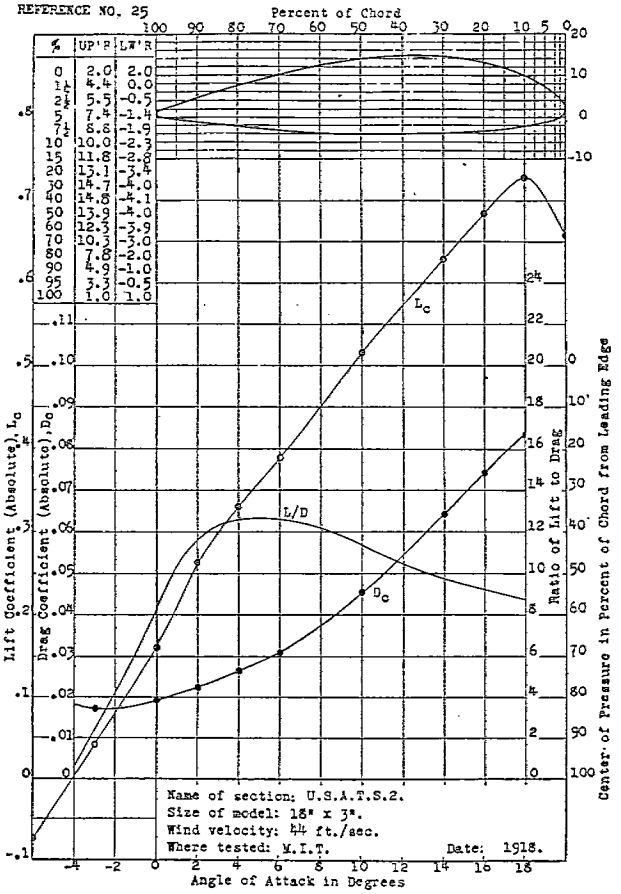

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 1.3 |
| 1¼ | 2.7 | 0.6 |
| 2½ | 3.5 | 0.3 |
| 5 | 4.6 | 0.1 |
| 7½ | 5.4 | 0.1 |
| 10 | 5.9 | 0.0 |
| 15 | 6.4 | 0.1 |
| 20 | 6.6 | 0.3 |
| 30 | 6.7 | 0.6 |
| 40 | 6.6 | 0.6 |
| 50 | 6.4 | 0.4 |
| 60 | 6.0 | 0.2 |
| 70 | 5.3 | 0.1 |
| 80 | 4.2 | 0.0 |
| 90 | 2.7 | 0.1 |
| 95 | 1.8 | 0.2 |
| 100 | 0.6 | 0.6 |

REFERENCE NO. 24



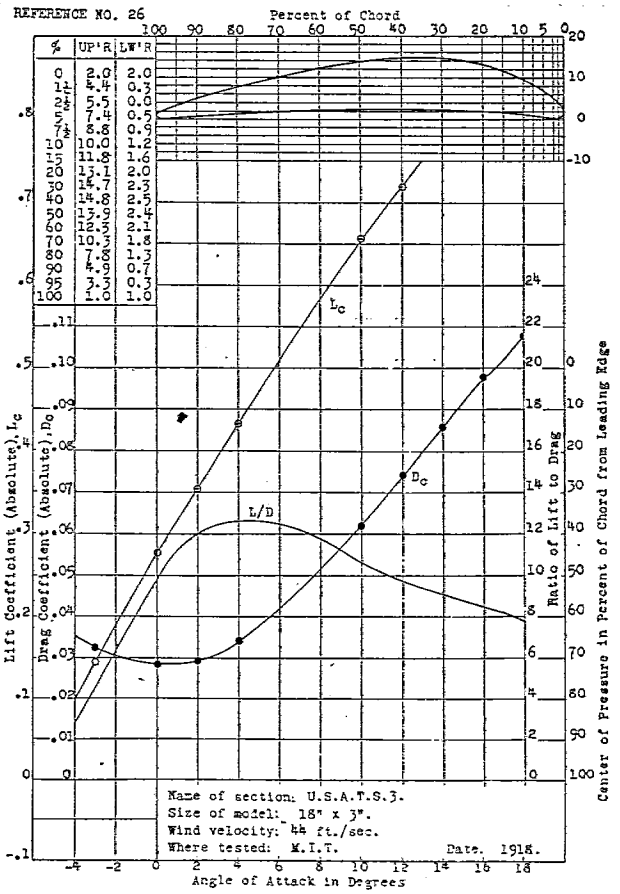

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | +2.0 |
| 1¼ | 4.4 | -1.3 |
| 2½ | 5.5 | -2.3 |
| 5 | 7.4 | -4.0 |
| 7½ | 8.8 | -5.4 |
| 10 | 10.0 | -6.5 |
| 15 | 11.8 | -7.9 |
| 20 | 13.1 | -8.9 |
| 30 | 14.7 | -9.6 |
| 40 | 14.8 | -9.1 |
| 50 | 13.9 | -8.3 |
| 60 | 12.3 | -7.3 |
| 70 | 10.3 | -5.9 |
| 80 | 7.8 | -4.1 |
| 90 | 4.9 | -2.1 |
| 95 | 3.3 | -1.0 |
| 100 | 1.0 | +1.0 |

REFERENCE NO. 25



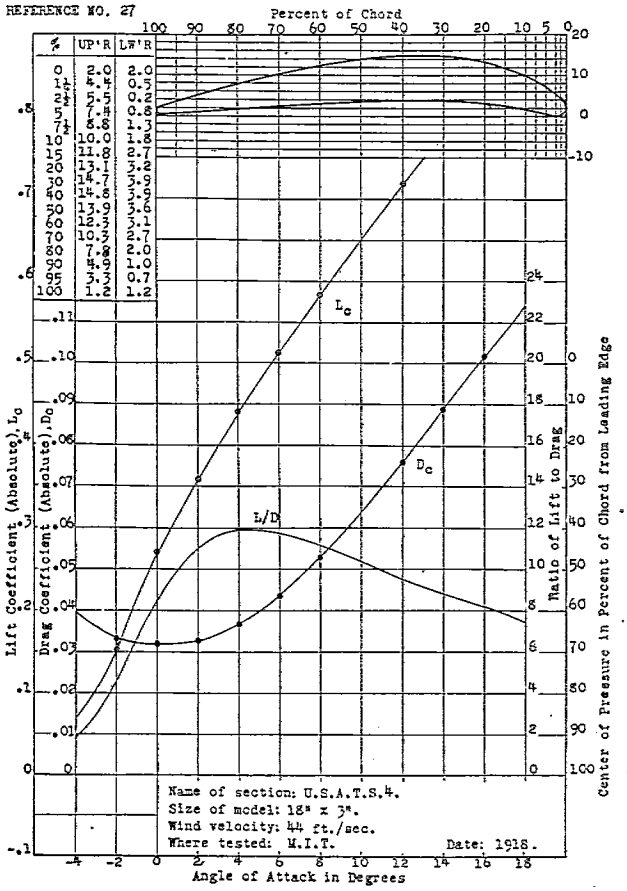

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | 0.0 |
| 2½ | 5.5 | -0.5 |
| 5 | 7.4 | -1.4 |
| 7½ | 8.8 | -1.9 |
| 10 | 10.0 | -2.3 |
| 15 | 11.8 | -2.8 |
| 20 | 13.1 | -3.4 |
| 30 | 14.7 | -4.0 |
| 40 | 14.8 | -4.1 |
| 50 | 13.9 | -4.0 |
| 60 | 12.3 | -3.9 |
| 70 | 10.3 | -3.0 |
| 80 | 7.8 | -2.0 |
| 90 | 4.9 | -1.0 |
| 95 | 3.3 | -0.5 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 26



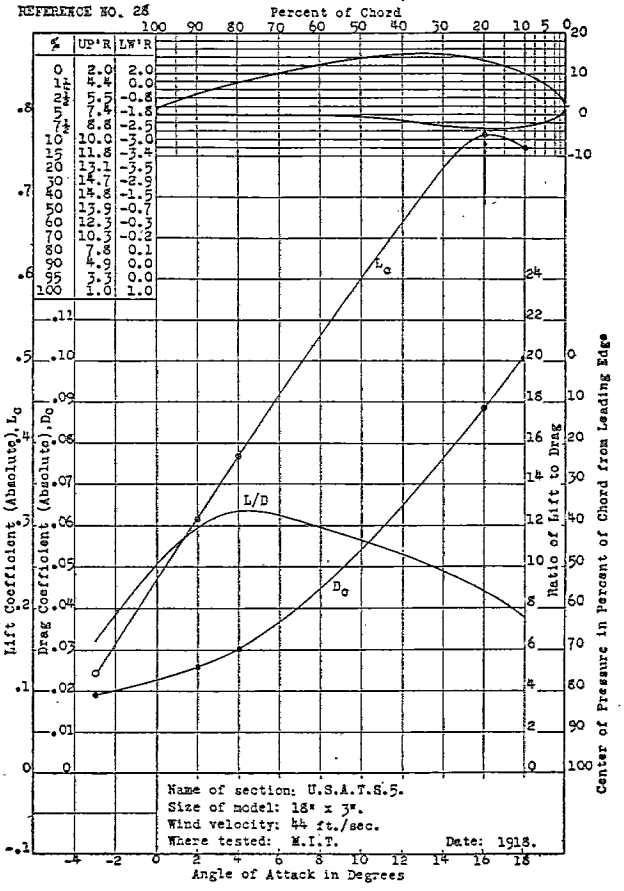

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | 0.3 |
| 2½ | 5.5 | 0.0 |
| 5 | 7.4 | 0.5 |
| 7½ | 8.8 | 0.9 |
| 10 | 10.0 | 1.2 |
| 15 | 11.8 | 1.6 |
| 20 | 13.1 | 2.0 |
| 30 | 14.7 | 2.3 |
| 40 | 14.8 | 2.5 |
| 50 | 13.9 | 2.4 |
| 60 | 12.3 | 2.1 |
| 70 | 10.3 | 1.8 |
| 80 | 7.8 | 1.3 |
| 90 | 4.9 | 0.7 |
| 95 | 3.3 | 0.3 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 27




| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | 0.5 |
| 2½ | 5.5 | 0.2 |
| 5 | 7.4 | 0.8 |
| 7½ | 8.8 | 1.3 |
| 10 | 10.0 | 1.8 |
| 15 | 11.8 | 2.7 |
| 20 | 13.1 | 3.2 |
| 30 | 14.7 | 3.9 |
| 40 | 14.8 | 3.9 |
| 50 | 13.9 | 3.6 |
| 60 | 12.3 | 3.1 |
| 70 | 10.3 | 2.7 |
| 80 | 7.8 | 2.0 |
| 90 | 4.9 | 1.0 |
| 95 | 3.3 | 0.7 |
| 100 | 1.2 | 1.2 |

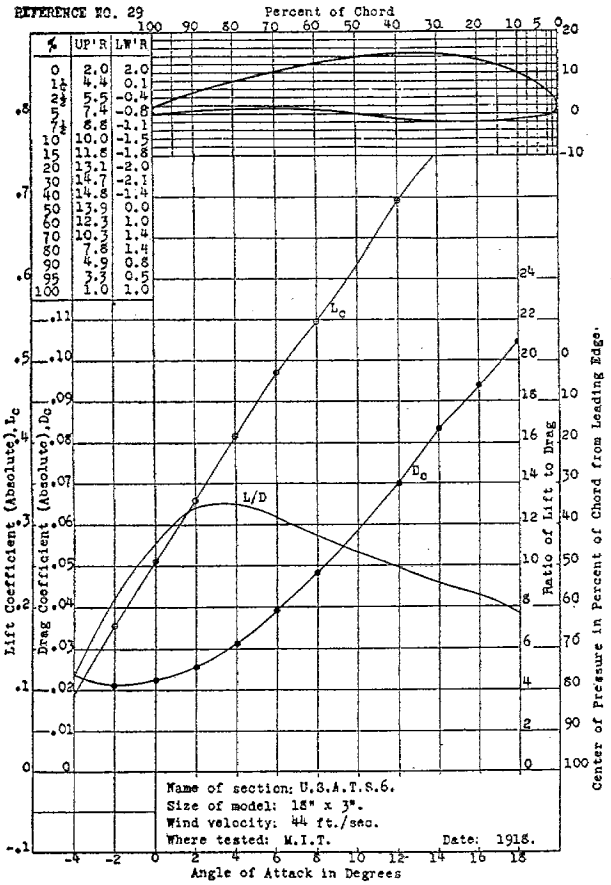
REFERENCE NO. 28




| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | 0.0 |
| 2½ | 5.5 | -0.8 |
| 5 | 7.4 | -1.8 |
| 7½ | 8.8 | -2.5 |
| 10 | 10.0 | -3.0 |
| 15 | 11.8 | -3.4 |
| 20 | 13.1 | -3.5 |
| 30 | 14.7 | -2.9 |
| 40 | 14.8 | -1.5 |
| 50 | 13.9 | -0.7 |
| 60 | 12.3 | -0.3 |
| 70 | 10.3 | -0.2 |
| 80 | 7.8 | 0.1 |
| 90 | 4.9 | 0.0 |
| 95 | 3.3 | 0.0 |
| 100 | 1.0 | 1.0 |

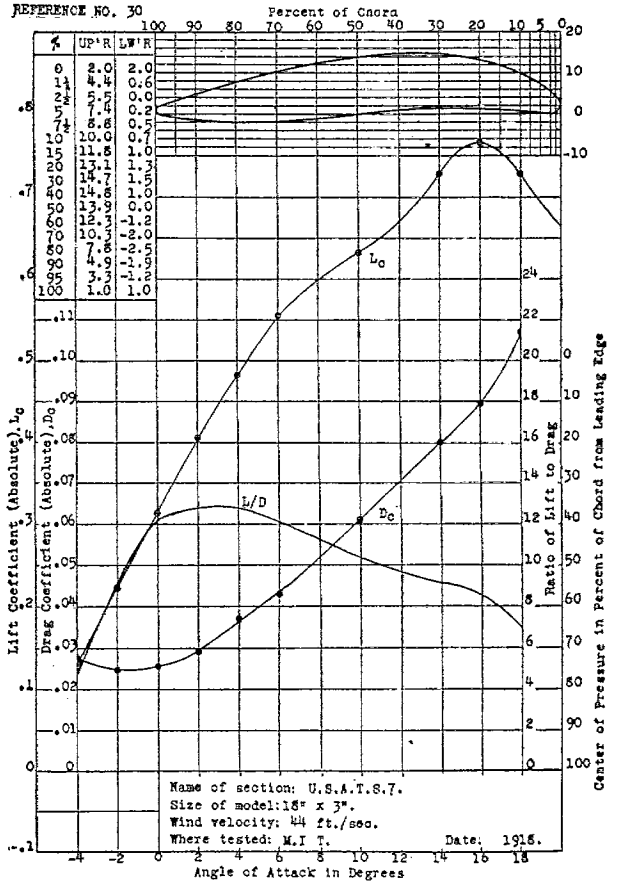
REFERENCE NO. 29

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | 0.1 |
| 2½ | 5.5 | -0.4 |
| 5 | 7.4 | -0.8 |
| 7½ | 8.8 | -1.1 |
| 10 | 10.0 | -1.5 |
| 15 | 11.8 | -1.8 |
| 20 | 13.1 | -2.0 |
| 30 | 14.7 | -2.1 |
| 40 | 14.8 | -1.4 |
| 50 | 13.9 | 0.0 |
| 60 | 12.3 | 1.0 |
| 70 | 10.3 | 1.4 |
| 80 | 7.8 | 1.4 |
| 90 | 4.9 | 0.8 |
| 95 | 3.3 | 0.5 |
| 100 | 1.0 | 1.0 |



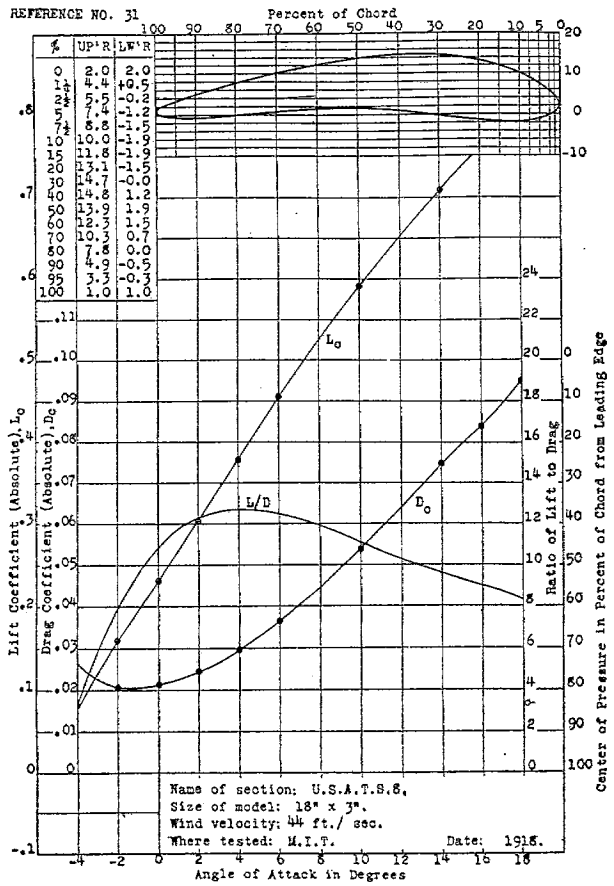

REFERENCE NO. 30

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | 0.6 |
| 2½ | 5.5 | 0.0 |
| 5 | 7.4 | 0.2 |
| 7½ | 8.8 | 0.5 |
| 10 | 10.0 | 0.7 |
| 15 | 11.8 | 1.0 |
| 20 | 13.1 | 1.3 |
| 30 | 14.7 | 1.5 |
| 40 | 14.8 | 1.0 |
| 50 | 13.9 | 0.0 |
| 60 | 12.3 | -1.2 |
| 70 | 10.3 | -2.0 |
| 80 | 7.8 | -2.5 |
| 90 | 4.9 | -1.9 |
| 95 | 3.3 | -1.2 |
| 100 | 1.0 | 1.0 |



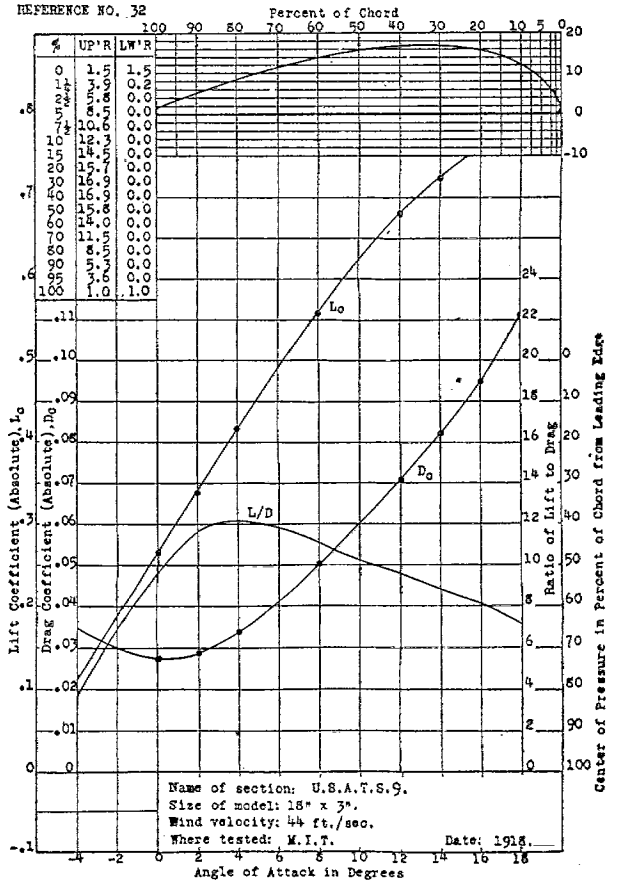

REFERENCE NO. 31

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | +0.5 |
| 2½ | 5.5 | -0.2 |
| 5 | 7.4 | -1.2 |
| 7½ | 8.8 | -1.5 |
| 10 | 10.0 | -1.9 |
| 15 | 11.8 | -1.9 |
| 20 | 13.1 | -1.5 |
| 30 | 14.7 | -0.0 |
| 40 | 14.8 | 1.2 |
| 50 | 13.9 | 1.9 |
| 60 | 12.3 | 1.5 |
| 70 | 10.3 | 0.7 |
| 80 | 7.8 | 0.0 |
| 90 | 4.9 | -0.5 |
| 95 | 3.3 | -0.3 |
| 100 | 1.0 | 1.0 |

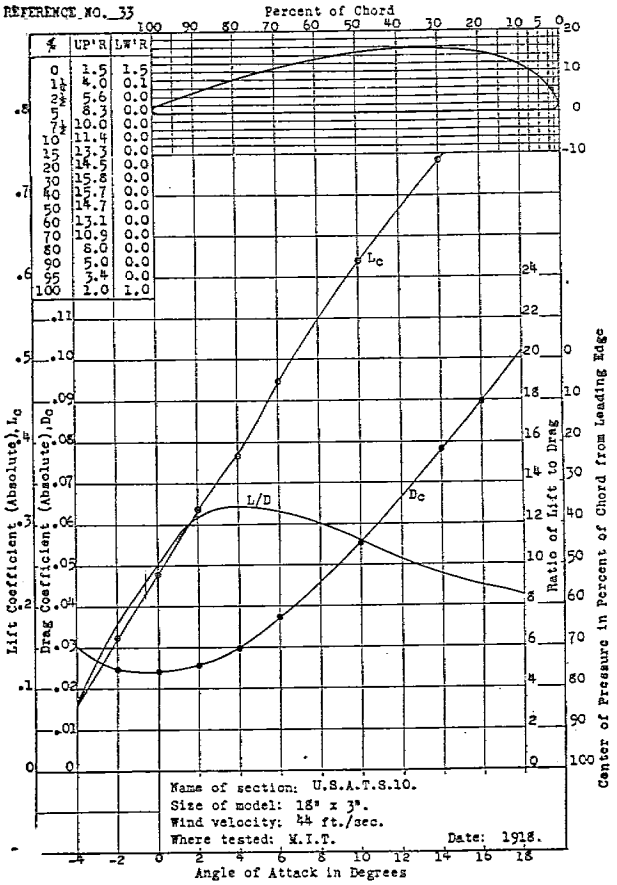



REFERENCE NO. 32

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.5 | 1.5 |
| 1¼ | 3.9 | 0.2 |
| 2½ | 5.8 | 0.0 |
| 5 | 8.5 | 0.0 |
| 7½ | 10.6 | 0.0 |
| 10 | 12.3 | 0.0 |
| 15 | 14.5 | 0.0 |
| 20 | 15.7 | 0.0 |
| 30 | 16.9 | 0.0 |
| 40 | 16.9 | 0.0 |
| 50 | 15.8 | 0.0 |
| 60 | 14.0 | 0.0 |
| 70 | 11.5 | 0.0 |
| 80 | 8.5 | 0.0 |
| 90 | 5.3 | 0.0 |
| 95 | 3.6 | 0.0 |
| 100 | 1.0 | 1.0 |

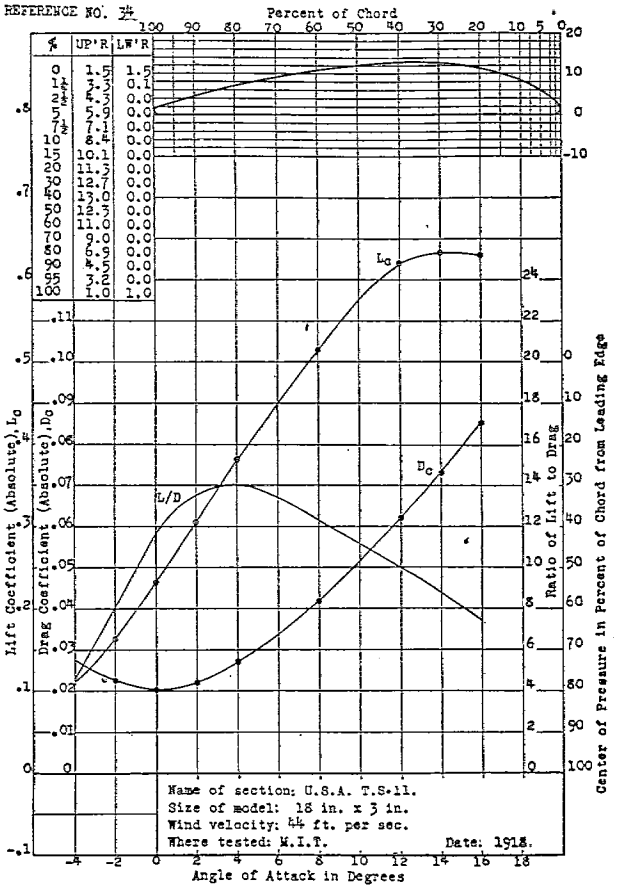


REFERENCE NO. 33



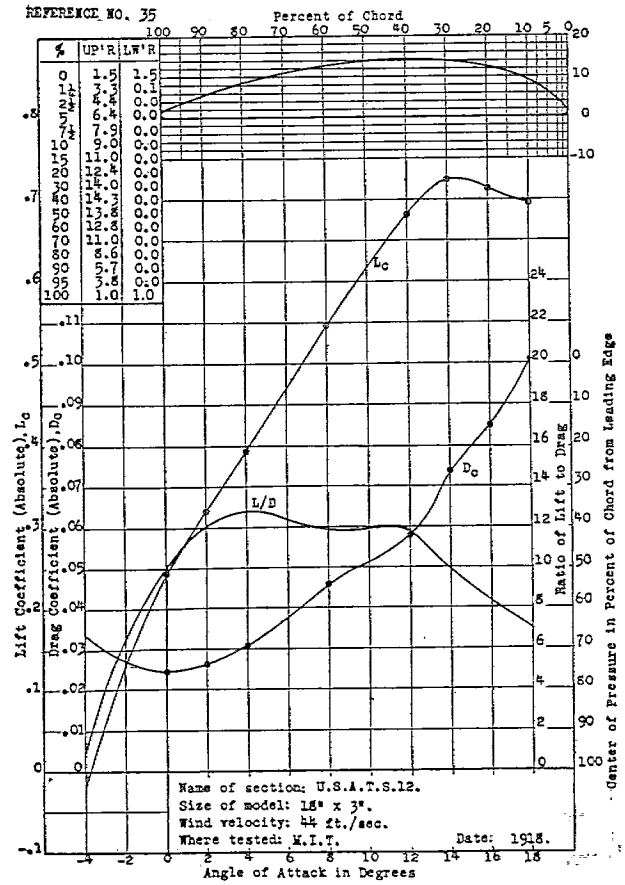

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.5 | 1.5 |
| 1¼ | 4.0 | 0.1 |
| 2½ | 5.6 | 0.0 |
| 5 | 8.3 | 0.0 |
| 7½ | 10.0 | 0.0 |
| 10 | 11.4 | 0.0 |
| 15 | 13.3 | 0.0 |
| 20 | 14.5 | 0.0 |
| 30 | 15.8 | 0.0 |
| 40 | 15.7 | 0.0 |
| 50 | 14.7 | 0.0 |
| 60 | 13.1 | 0.0 |
| 70 | 10.9 | 0.0 |
| 80 | 8.0 | 0.0 |
| 90 | 5.0 | 0.0 |
| 95 | 3.4 | 0.0 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 34



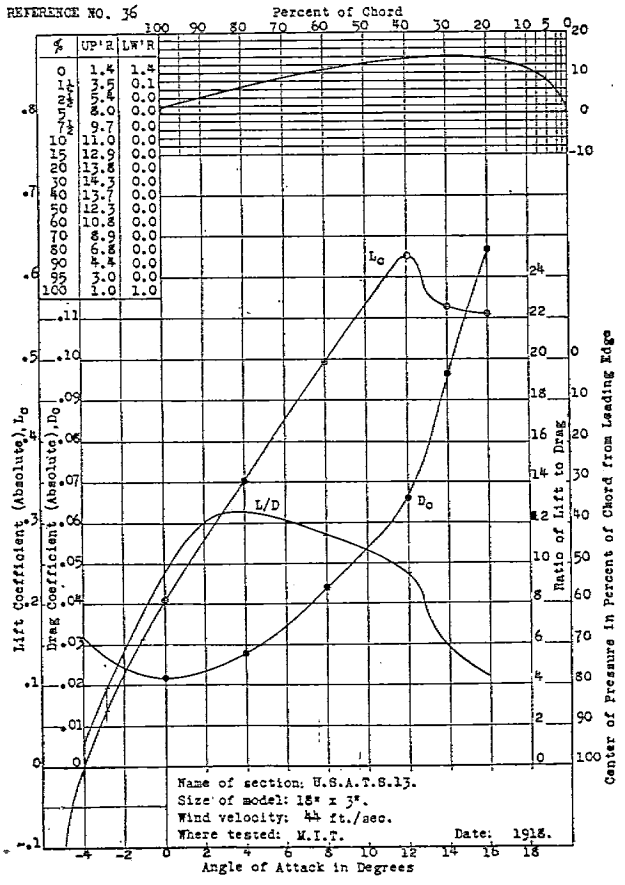

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.5 | 1.5 |
| 1¼ | 3.3 | 0.1 |
| 2½ | 4.3 | 0.0 |
| 5 | 5.9 | 0.0 |
| 7½ | 7.1 | 0.0 |
| 10 | 8.4 | 0.0 |
| 15 | 10.1 | 0.0 |
| 20 | 11.3 | 0.0 |
| 30 | 12.7 | 0.0 |
| 40 | 13.0 | 0.0 |
| 50 | 12.3 | 0.0 |
| 60 | 11.0 | 0.0 |
| 70 | 9.0 | 0.0 |
| 80 | 6.9 | 0.0 |
| 90 | 4.5 | 0.0 |
| 95 | 3.2 | 0.0 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 35



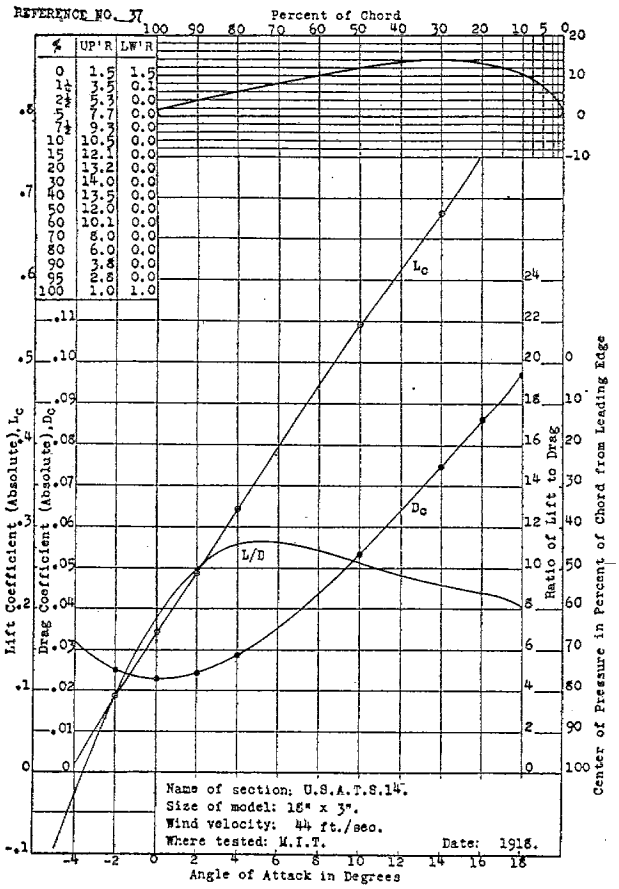

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.5 | 1.5 |
| 1¼ | 3.3 | 0.1 |
| 2½ | 4.4 | 0.0 |
| 5 | 6.4 | 0.0 |
| 7½ | 7.9 | 0.0 |
| 10 | 9.0 | 0.0 |
| 15 | 11.0 | 0.0 |
| 20 | 12.4 | 0.0 |
| 30 | 14.0 | 0.0 |
| 40 | 14.3 | 0.0 |
| 50 | 13.8 | 0.0 |
| 60 | 12.8 | 0.0 |
| 70 | 11.0 | 0.0 |
| 80 | 8.6 | 0.0 |
| 90 | 5.7 | 0.0 |
| 95 | 3.8 | 0.0 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 36



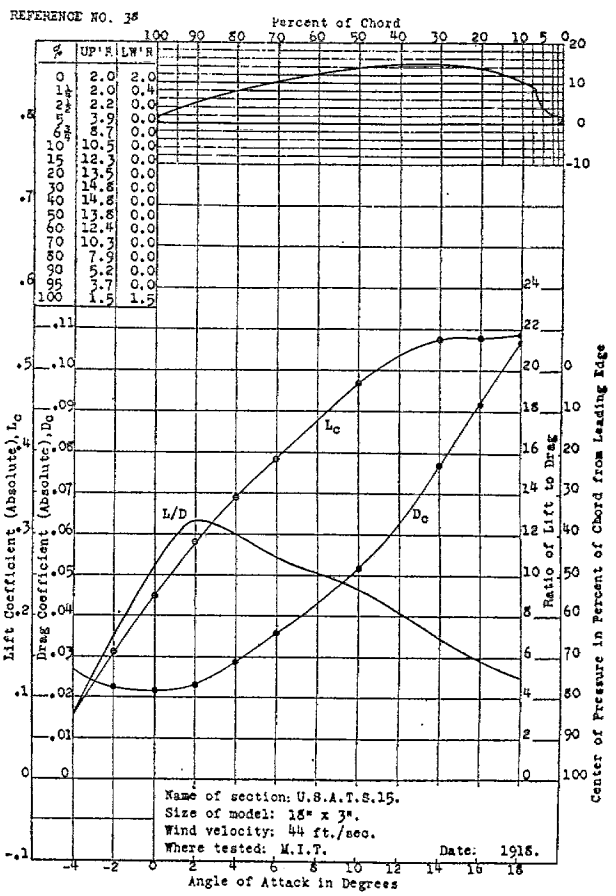

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.4 | 1.4 |
| 1¼ | 3.5 | 0.1 |
| 2½ | 5.4 | 0.0 |
| 5 | 8.0 | 0.0 |
| 7½ | 9.7 | 0.0 |
| 10 | 11.0 | 0.0 |
| 15 | 12.9 | 0.0 |
| 20 | 13.8 | 0.0 |
| 30 | 14.3 | 0.0 |
| 40 | 13.7 | 0.0 |
| 50 | 12.3 | 0.0 |
| 60 | 10.8 | 0.0 |
| 70 | 8.9 | 0.0 |
| 80 | 6.8 | 0.0 |
| 90 | 4.4 | 0.0 |
| 95 | 3.0 | 0.0 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 37



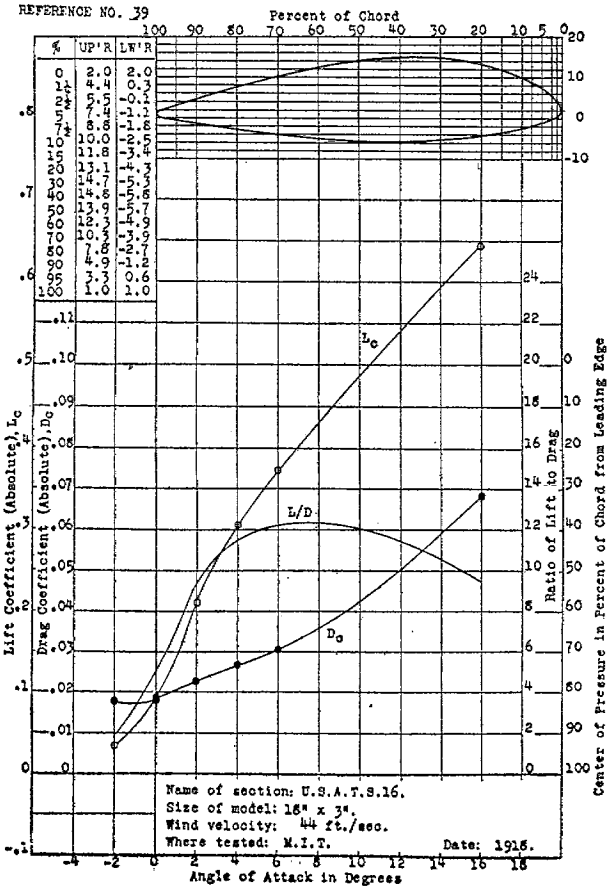

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.5 | 1.5 |
| 1¼ | 3.5 | 0.1 |
| 2½ | 5.3 | 0.0 |
| 5 | 7.7 | 0.0 |
| 7½ | 9.3 | 0.0 |
| 10 | 10.5 | 0.0 |
| 15 | 12.1 | 0.0 |
| 20 | 13.2 | 0.0 |
| 30 | 14.0 | 0.0 |
| 40 | 13.5 | 0.0 |
| 50 | 12.0 | 0.0 |
| 60 | 10.1 | 0.0 |
| 70 | 8.0 | 0.0 |
| 80 | 6.0 | 0.0 |
| 90 | 3.8 | 0.0 |
| 95 | 2.8 | 0.0 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 38



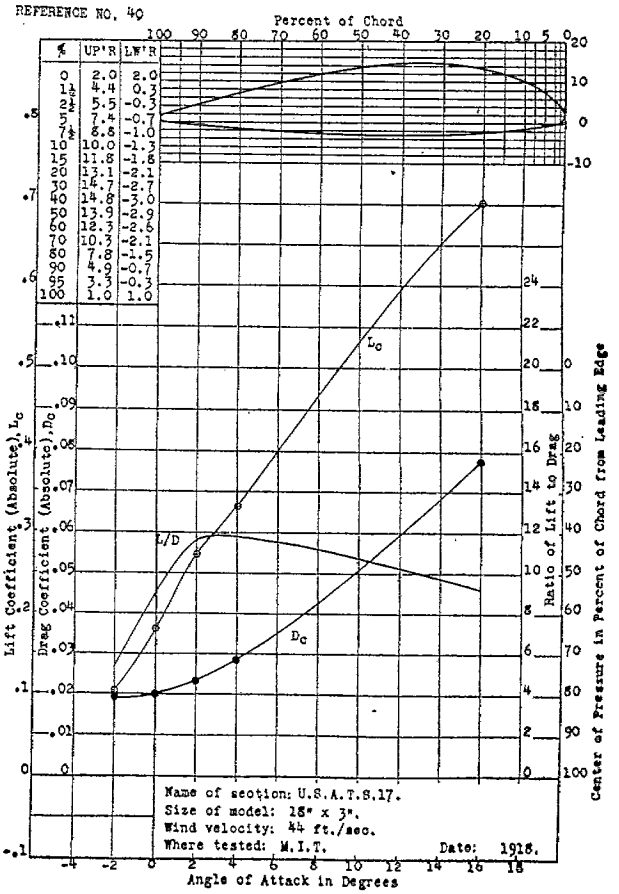

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 2.0 | 0.4 |
| 2½ | 2.2 | 0.0 |
| 5 | 3.9 | 0.0 |
| 7½ | 5.7 | 0.0 |
| 10 | 10.5 | 0.0 |
| 15 | 12.3 | 0.0 |
| 20 | 13.5 | 0.0 |
| 30 | 14.8 | 0.0 |
| 40 | 14.8 | 0.0 |
| 50 | 13.8 | 0.0 |
| 60 | 12.4 | 0.0 |
| 70 | 10.3 | 0.0 |
| 80 | 7.9 | 0.0 |
| 90 | 5.2 | 0.0 |
| 95 | 3.7 | 0.0 |
| 100 | 1.5 | 1.5 |

REFERENCE NO. 39



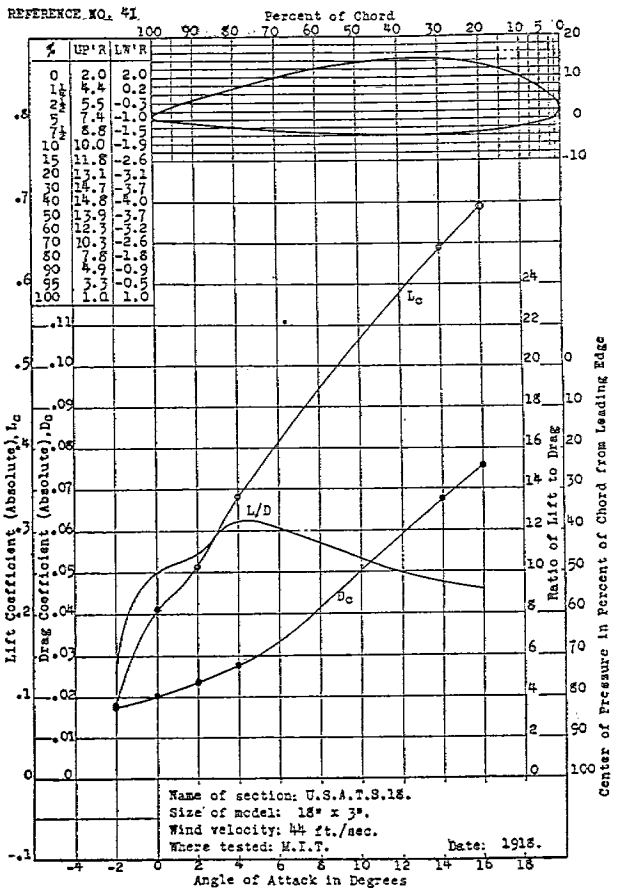

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | 0.3 |
| 2½ | 5.5 | -0.1 |
| 5 | 7.4 | -1.2 |
| 7½ | 8.8 | -1.8 |
| 10 | 10.0 | -2.5 |
| 15 | 11.8 | -3.4 |
| 20 | 13.1 | -4.3 |
| 30 | 14.7 | -5.3 |
| 40 | 14.8 | -5.8 |
| 50 | 13.9 | -5.7 |
| 60 | 12.3 | -4.9 |
| 70 | 10.3 | -3.9 |
| 80 | 7.8 | -2.7 |
| 90 | 4.9 | -1.2 |
| 95 | 3.3 | 0.6 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 40



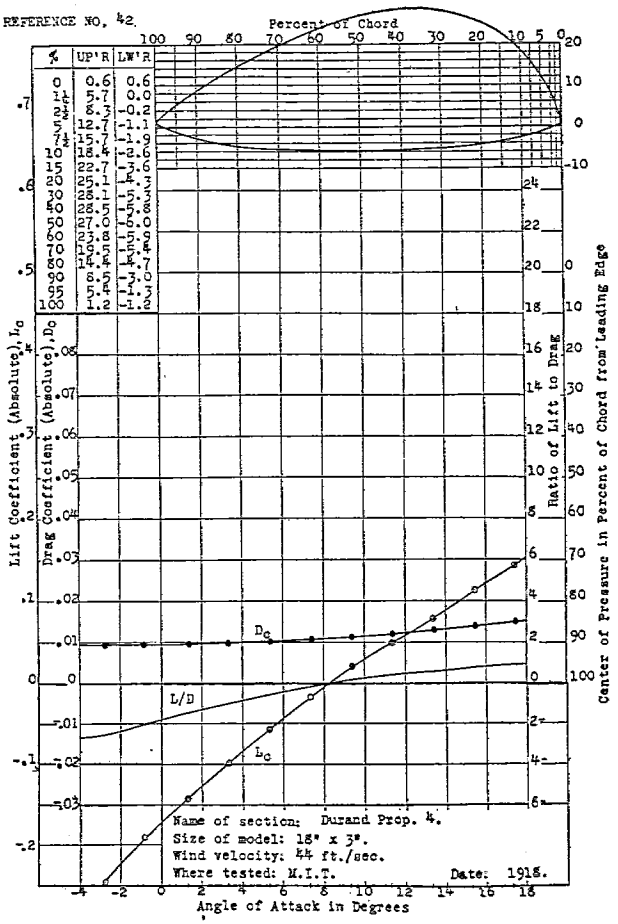

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | 0.3 |
| 2½ | 5.5 | -0.3 |
| 5 | 7.4 | -0.7 |
| 7½ | 8.8 | -1.0 |
| 10 | 10.0 | -1.3 |
| 15 | 11.8 | -1.8 |
| 20 | 13.1 | -2.1 |
| 30 | 14.7 | -2.7 |
| 40 | 14.8 | -3.0 |
| 50 | 13.9 | -2.9 |
| 60 | 12.3 | -2.6 |
| 70 | 10.3 | -2.1 |
| 80 | 7.8 | -1.5 |
| 90 | 4.9 | -0.7 |
| 95 | 3.3 | -0.3 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 41.



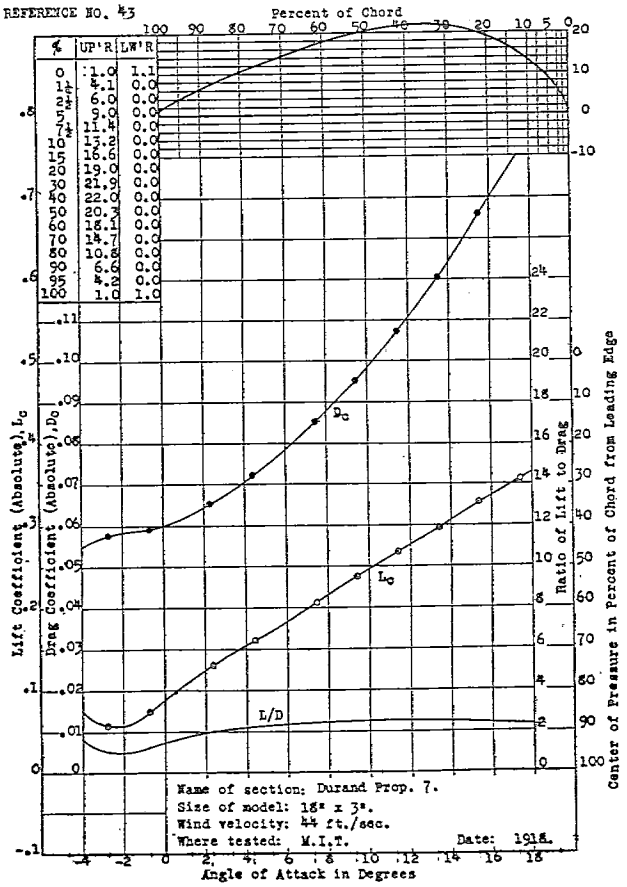

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | 0.2 |
| 2½ | 5.5 | -0.3 |
| 5 | 7.4 | -1.0 |
| 7½ | 8.8 | -1.5 |
| 10 | 10.0 | -1.9 |
| 15 | 11.8 | -2.6 |
| 20 | 13.1 | -3.1 |
| 30 | 14.7 | -3.7 |
| 40 | 14.8 | -4.0 |
| 50 | 13.9 | -3.7 |
| 60 | 12.3 | -3.2 |
| 70 | 10.3 | -2.6 |
| 80 | 7.6 | -1.8 |
| 90 | 4.9 | -0.9 |
| 95 | 3.3 | -0.5 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 42.



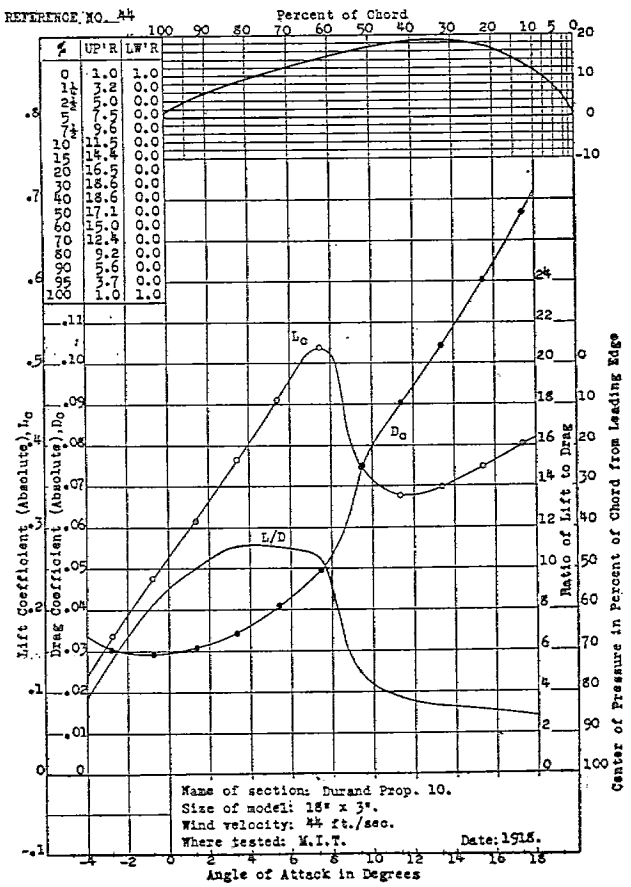

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.6 | 0.6 |
| 1¼ | 5.7 | 0.0 |
| 2½ | 8.3 | -0.2 |
| 5 | 12.7 | -1.1 |
| 7½ | 15.7 | -1.9 |
| 10 | 18.4 | -2.6 |
| 15 | 22.7 | -3.6 |
| 20 | 25.1 | -4.3 |
| 30 | 28.1 | -5.2 |
| 40 | 28.5 | -5.8 |
| 50 | 27.0 | -6.0 |
| 60 | 23.8 | -5.9 |
| 70 | 19.5 | -5.4 |
| 80 | 14.4 | -4.7 |
| 90 | 8.5 | -3.0 |
| 95 | 5.4 | -1.3 |
| 100 | 1.2 | -1.2 |

REFERENCE NO. 43



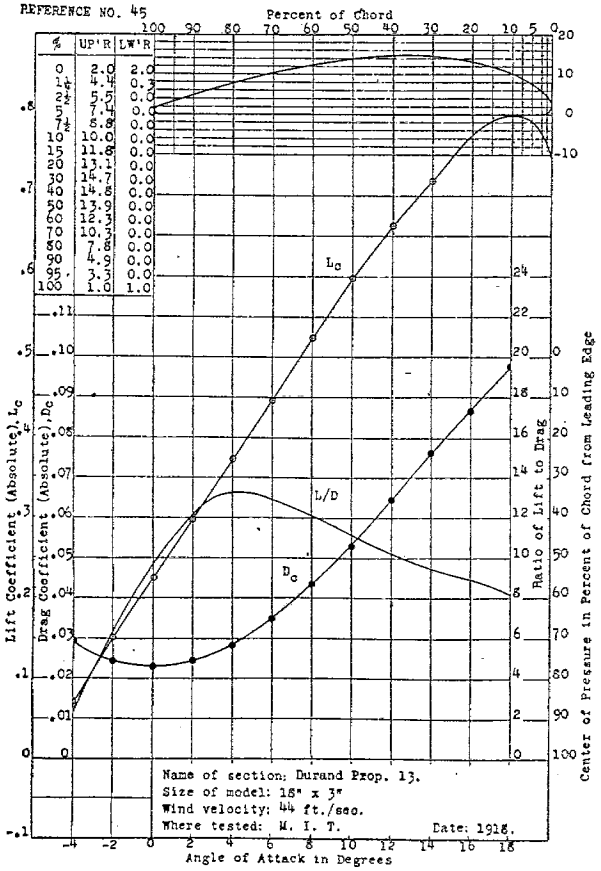

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 1.1 |
| 1¼ | 4.1 | 0.0 |
| 2½ | 6.0 | 0.0 |
| 5 | 9.0 | 0.0 |
| 7½ | 11.4 | 0.0 |
| 10 | 13.2 | 0.0 |
| 15 | 16.6 | 0.0 |
| 20 | 19.0 | 0.0 |
| 30 | 21.9 | 0.0 |
| 40 | 22.0 | 0.0 |
| 50 | 20.3 | 0.0 |
| 60 | 18.1 | 0.0 |
| 70 | 14.7 | 0.0 |
| 80 | 10.8 | 0.0 |
| 90 | 6.6 | 0.0 |
| 95 | 4.2 | 0.0 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 44



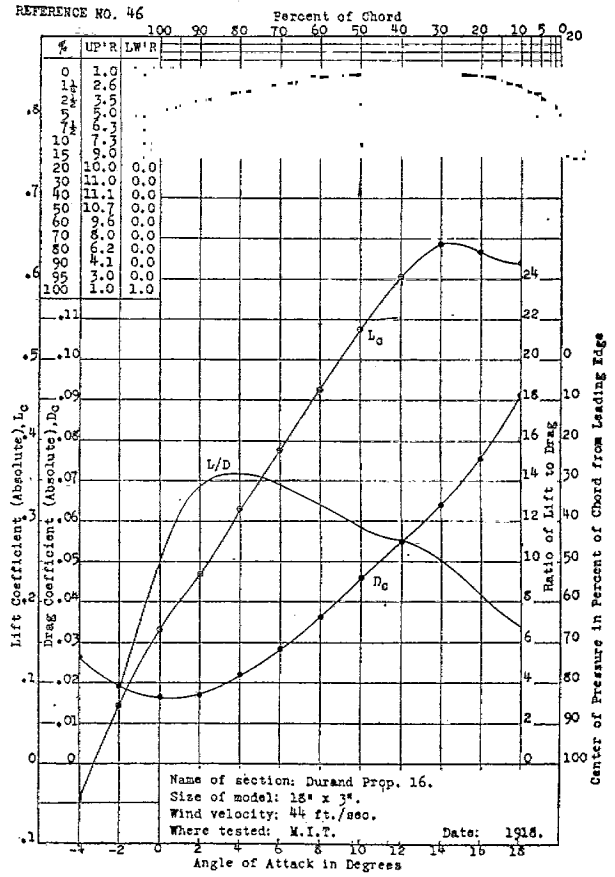

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 1.0 |
| 1¼ | 3.2 | 0.0 |
| 2½ | 5.0 | 0.0 |
| 5 | 7.5 | 0.0 |
| 7½ | 9.6 | 0.0 |
| 10 | 11.5 | 0.0 |
| 15 | 14.4 | 0.0 |
| 20 | 16.5 | 0.0 |
| 30 | 18.6 | 0.0 |
| 40 | 18.6 | 0.0 |
| 50 | 17.1 | 0.0 |
| 60 | 15.0 | 0.0 |
| 70 | 12.4 | 0.0 |
| 80 | 9.2 | 0.0 |
| 90 | 5.6 | 0.0 |
| 95 | 3.7 | 0.0 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 45



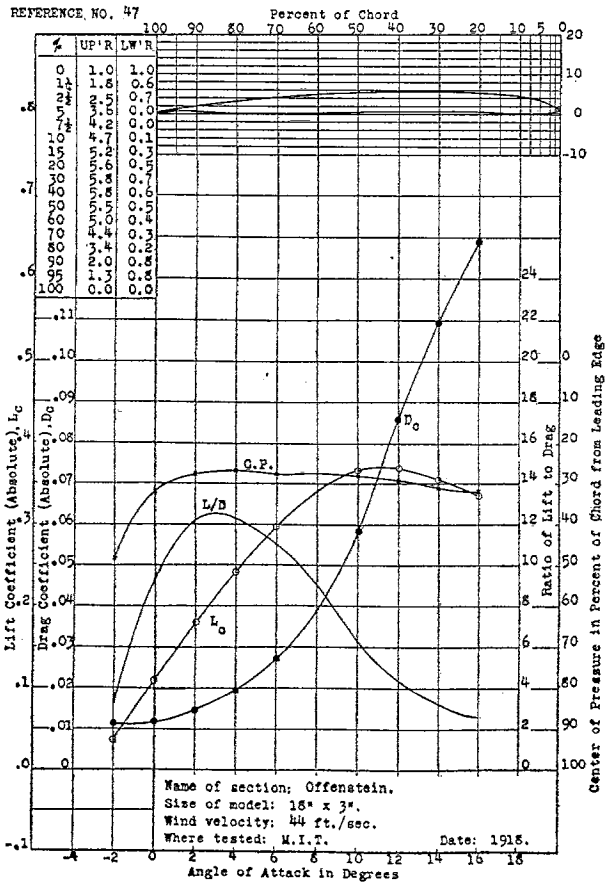

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 4.4 | 0.3 |
| 2½ | 5.5 | 0.0 |
| 5 | 7.4 | 0.0 |
| 7½ | 8.8 | 0.0 |
| 10 | 10.0 | 0.0 |
| 15 | 11.8 | 0.0 |
| 20 | 13.1 | 0.0 |
| 30 | 14.7 | 0.0 |
| 40 | 14.8 | 0.0 |
| 50 | 13.9 | 0.0 |
| 60 | 12.3 | 0.0 |
| 70 | 10.3 | 0.0 |
| 80 | 7.8 | 0.0 |
| 90 | 4.9 | 0.0 |
| 95 | 3.3 | 0.0 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 46



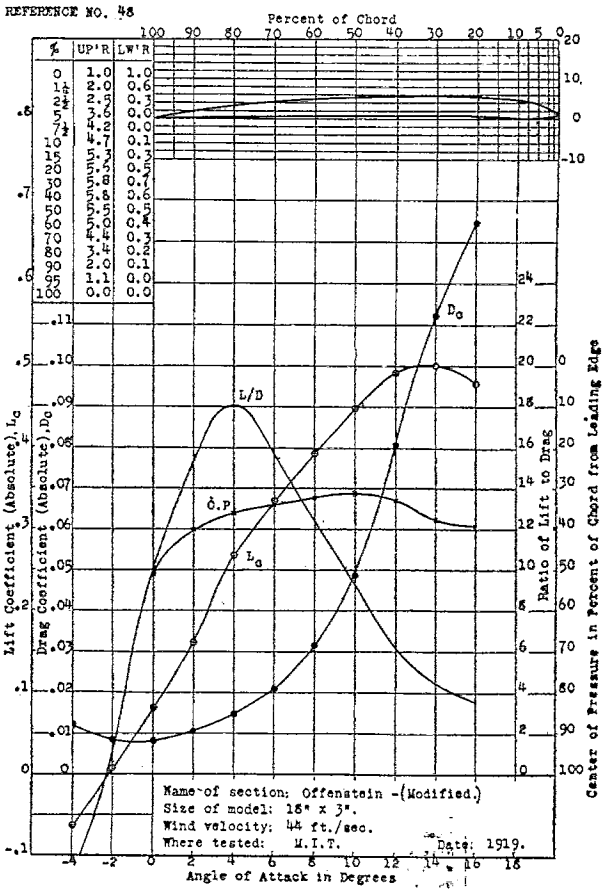

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | |
| 1¼ | 2.6 | |
| 2½ | 3.5 | |
| 5 | 5.0 | |
| 7½ | 6.3 | |
| 10 | 7.3 | |
| 15 | 9.0 | |
| 20 | 10.0 | 0.0 |
| 30 | 11.0 | 0.0 |
| 40 | 11.1 | 0.0 |
| 50 | 10.7 | 0.0 |
| 60 | 9.6 | 0.0 |
| 70 | 8.0 | 0.0 |
| 80 | 6.2 | 0.0 |
| 90 | 4.1 | 0.0 |
| 95 | 3.0 | 0.0 |
| 100 | 1.0 | 1.0 |

REFERENCE NO. 47



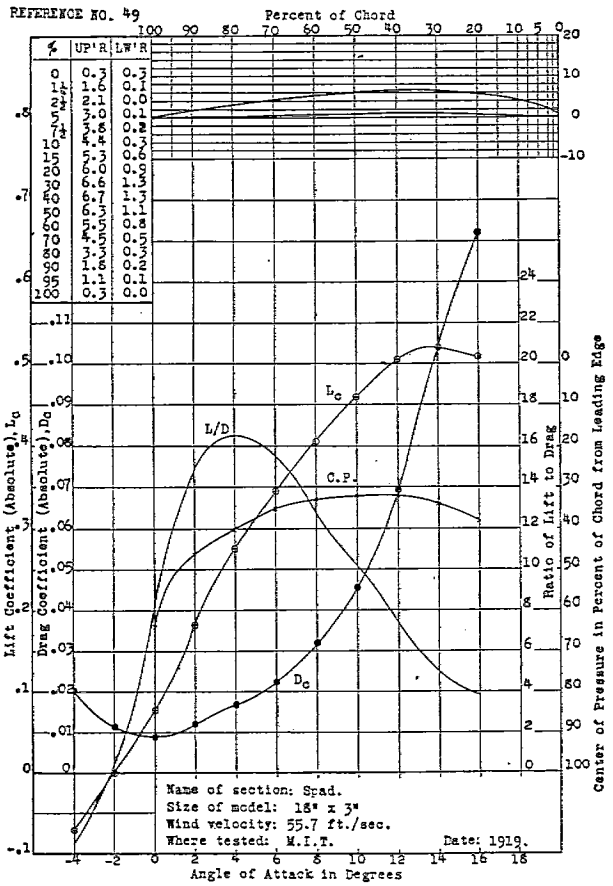

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 1.0 |
| 1¼ | 1.8 | 0.6 |
| 2½ | 2.5 | 0.7 |
| 5 | 3.8 | 0.0 |
| 7½ | 4.2 | 0.0 |
| 10 | 4.7 | 0.1 |
| 15 | 5.2 | 0.3 |
| 20 | 5.6 | 0.5 |
| 30 | 5.8 | 0.7 |
| 40 | 5.8 | 0.6 |
| 50 | 5.5 | 0.5 |
| 60 | 5.0 | 0.4 |
| 70 | 4.4 | 0.3 |
| 80 | 3.4 | 0.2 |
| 90 | 2.0 | 0.8 |
| 95 | 1.3 | 0.8 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 48



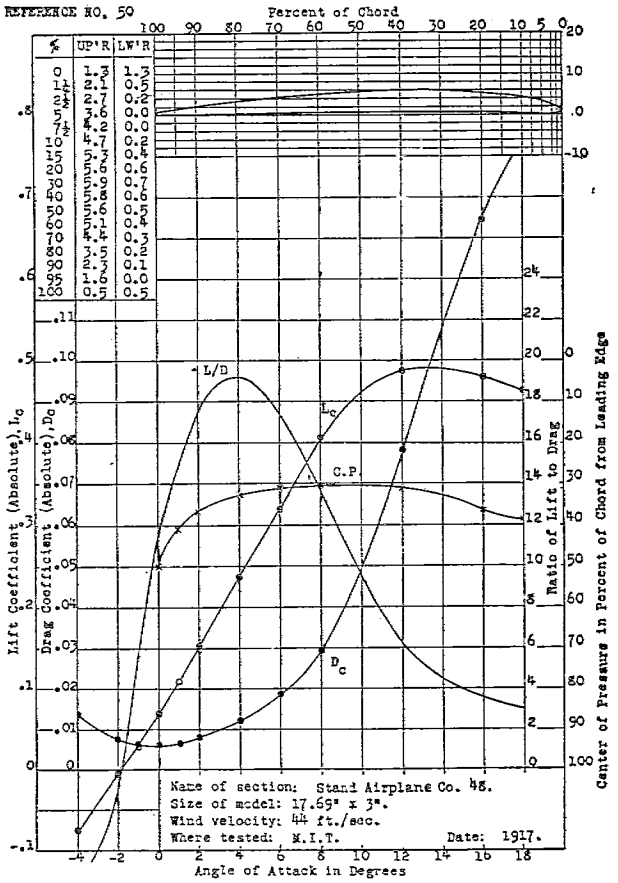

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 1.0 |
| 1¼ | 2.0 | 0.6 |
| 2½ | 2.5 | 0.3 |
| 5 | 3.6 | 0.0 |
| 7½ | 4.2 | 0.0 |
| 10 | 4.7 | 0.1 |
| 15 | 5.3 | 0.3 |
| 20 | 5.5 | 0.5 |
| 30 | 5.8 | 0.7 |
| 40 | 5.8 | 0.6 |
| 50 | 5.5 | 0.5 |
| 60 | 5.0 | 0.4 |
| 70 | 4.4 | 0.3 |
| 80 | 3.4 | 0.2 |
| 90 | 2.0 | 0.1 |
| 95 | 1.1 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 49



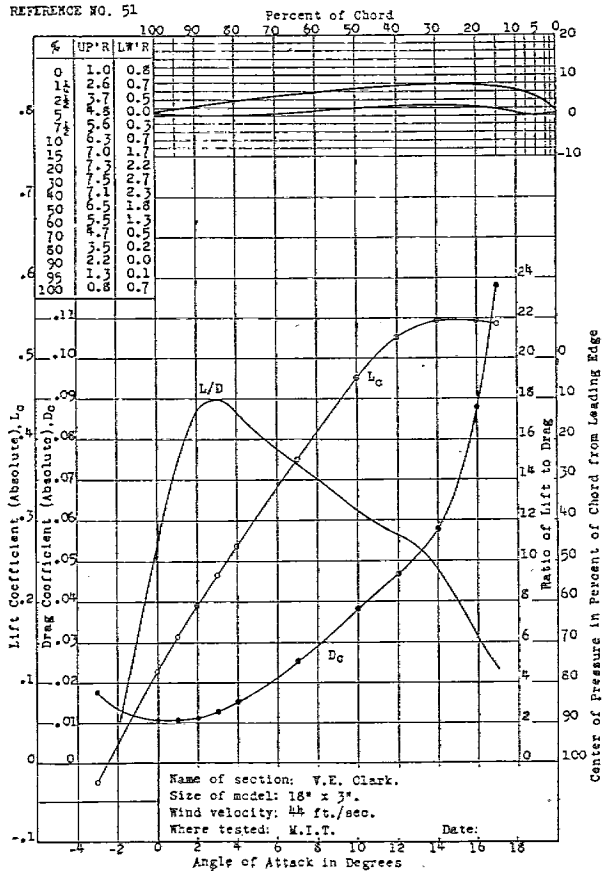

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.3 | 0.3 |
| 1¼ | 1.6 | 0.1 |
| 2½ | 2.1 | 0.0 |
| 5 | 3.0 | 0.1 |
| 7½ | 3.8 | 0.2 |
| 10 | 4.4 | 0.3 |
| 15 | 5.3 | 0.6 |
| 20 | 6.0 | 0.9 |
| 30 | 6.6 | 1.3 |
| 40 | 6.7 | 1.3 |
| 50 | 6.3 | 1.1 |
| 60 | 5.5 | 0.8 |
| 70 | 4.5 | 0.5 |
| 80 | 3.3 | 0.3 |
| 90 | 1.8 | 0.2 |
| 95 | 1.1 | 0.1 |
| 100 | 0.3 | 0.0 |

REFERENCE NO. 50



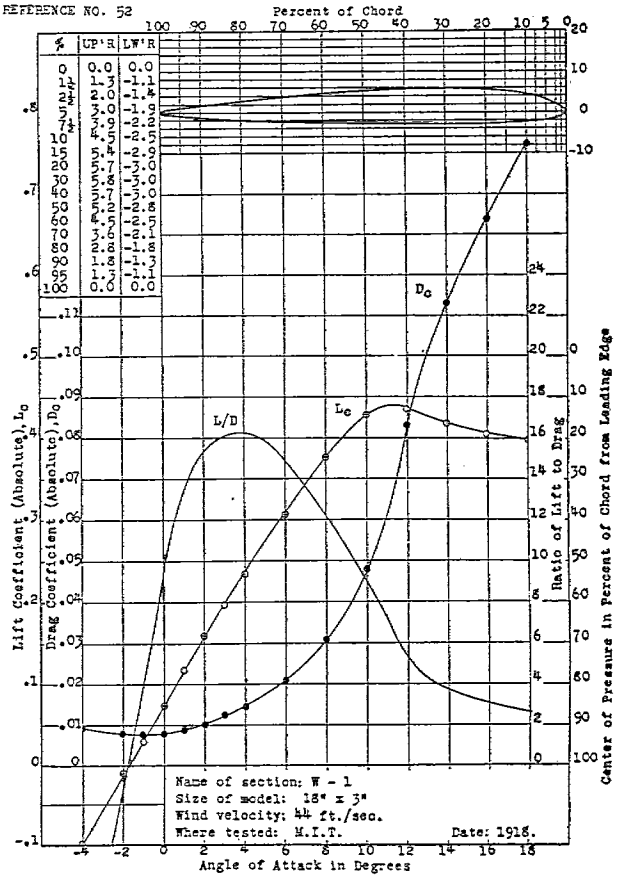

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 1.3 |
| 1¼ | 2.1 | 0.5 |
| 2½ | 2.7 | 0.2 |
| 5 | 3.6 | 0.0 |
| 7½ | 4.2 | 0.0 |
| 10 | 4.7 | 0.2 |
| 15 | 5.3 | 0.4 |
| 20 | 5.8 | 0.6 |
| 30 | 5.9 | 0.7 |
| 40 | 5.8 | 0.6 |
| 50 | 5.6 | 0.5 |
| 60 | 5.1 | 0.4 |
| 70 | 4.4 | 0.3 |
| 80 | 3.5 | 0.2 |
| 90 | 2.3 | 0.1 |
| 95 | 1.6 | 0.0 |
| 100 | 0.5 | 0.5 |

REFERENCE NO. 51




| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 0.8 |
| 1¼ | 2.6 | 0.7 |
| 2½ | 3.7 | 0.5 |
| 5 | 4.8 | 0.0 |
| 7½ | 5.6 | 0.3 |
| 10 | 6.3 | 0.7 |
| 15 | 7.0 | 1.7 |
| 20 | 7.3 | 2.2 |
| 30 | 7.5 | 2.7 |
| 40 | 7.1 | 2.3 |
| 50 | 6.5 | 1.8 |
| 60 | 5.5 | 1.3 |
| 70 | 4.7 | 0.5 |
| 80 | 3.5 | 0.2 |
| 90 | 2.2 | 0.0 |
| 95 | 1.3 | 0.1 |
| 100 | 0.8 | 0.7 |

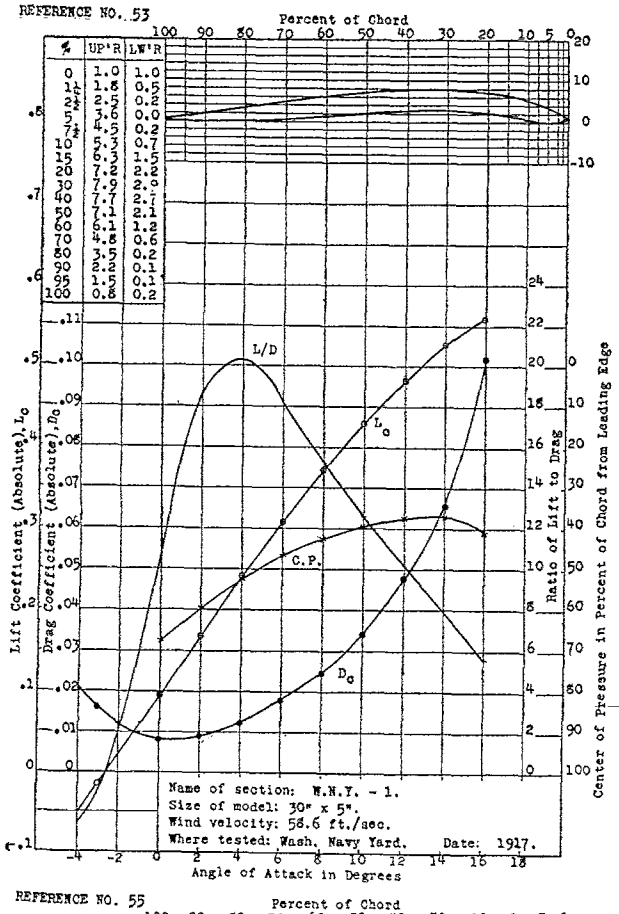
REFERENCE NO. 52




| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.3 | -1.1 |
| 2½ | 2.0 | -1.4 |
| 5 | 3.0 | -1.9 |
| 7½ | 3.9 | -2.2 |
| 10 | 4.5 | -2.5 |
| 15 | 5.4 | -2.9 |
| 20 | 5.7 | -3.0 |
| 30 | 5.8 | -3.0 |
| 40 | 5.7 | -3.0 |
| 50 | 5.2 | -2.8 |
| 60 | 4.5 | -2.5 |
| 70 | 3.6 | -2.1 |
| 80 | 2.8 | -1.8 |
| 90 | 1.8 | -1.3 |
| 95 | 1.3 | -1.1 |
| 100 | 0.0 | 0.0 |

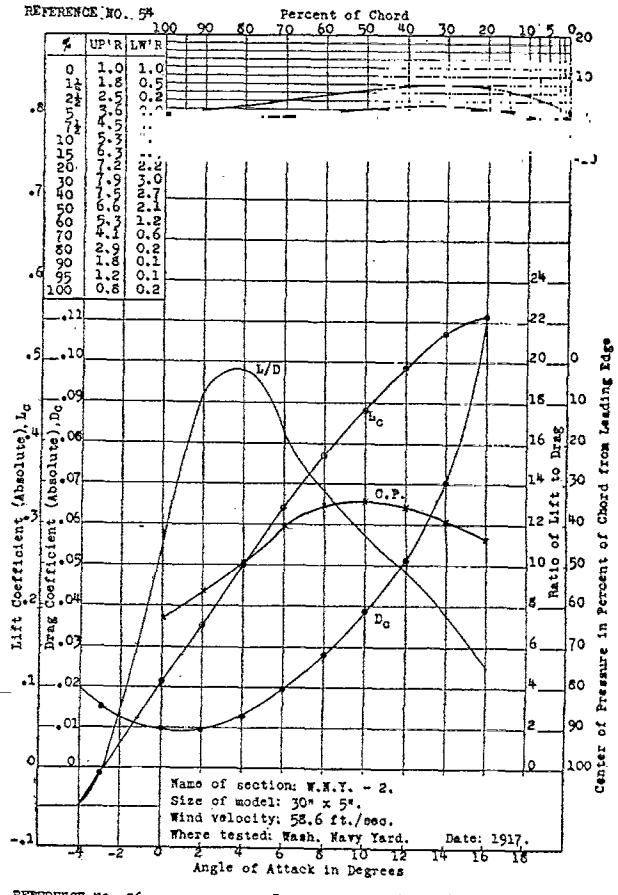
REFERENCE NO. 53

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 1.0 |
| 1¼ | 1.8 | 0.5 |
| 2½ | 2.5 | 0.2 |
| 5 | 3.6 | 0.0 |
| 7½ | 4.5 | 0.2 |
| 10 | 5.3 | 0.7 |
| 15 | 6.3 | 1.5 |
| 20 | 7.2 | 2.2 |
| 30 | 7.9 | 3.0 |
| 40 | 7.7 | 2.7 |
| 50 | 7.1 | 2.1 |
| 60 | 6.1 | 1.2 |
| 70 | 4.8 | 0.6 |
| 80 | 3.5 | 0.2 |
| 90 | 2.2 | 0.1 |
| 95 | 1.5 | 0.1 |
| 100 | 0.8 | 0.2 |



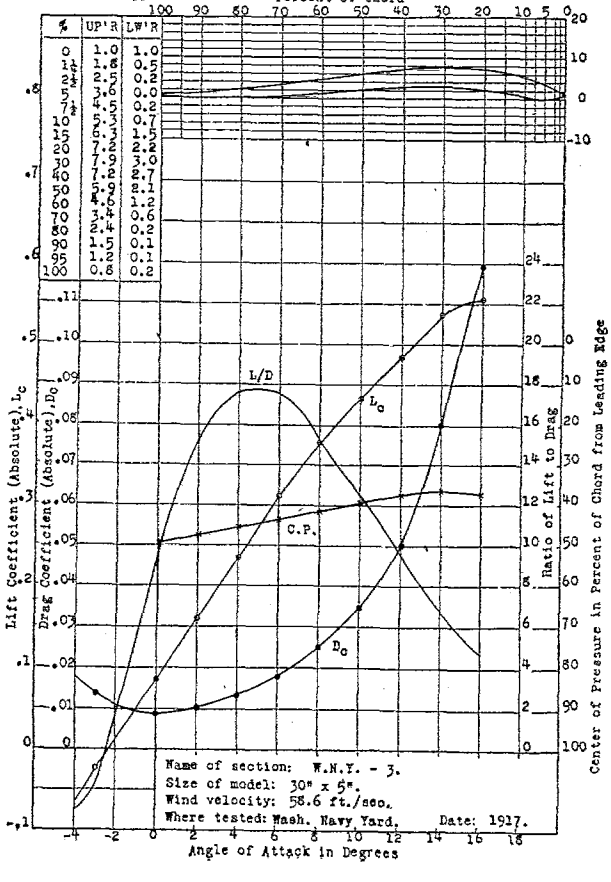

REFERENCE NO. 54

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 1.0 |
| 1¼ | 1.8 | 0.5 |
| 2½ | 2.5 | 0.2 |
| 5 | 3.6 | [illegible] |
| 7½ | 4.5 | [illegible] |
| 10 | 5.3 | [illegible] |
| 15 | 6.3 | [illegible] |
| 20 | 7.2 | 2.2 |
| 30 | 7.9 | 3.0 |
| 40 | 7.5 | 2.7 |
| 50 | 6.6 | 2.1 |
| 60 | 5.3 | 1.2 |
| 70 | 4.1 | 0.6 |
| 80 | 2.9 | 0.2 |
| 90 | 1.8 | 0.1 |
| 95 | 1.2 | 0.1 |
| 100 | 0.8 | 0.2 |



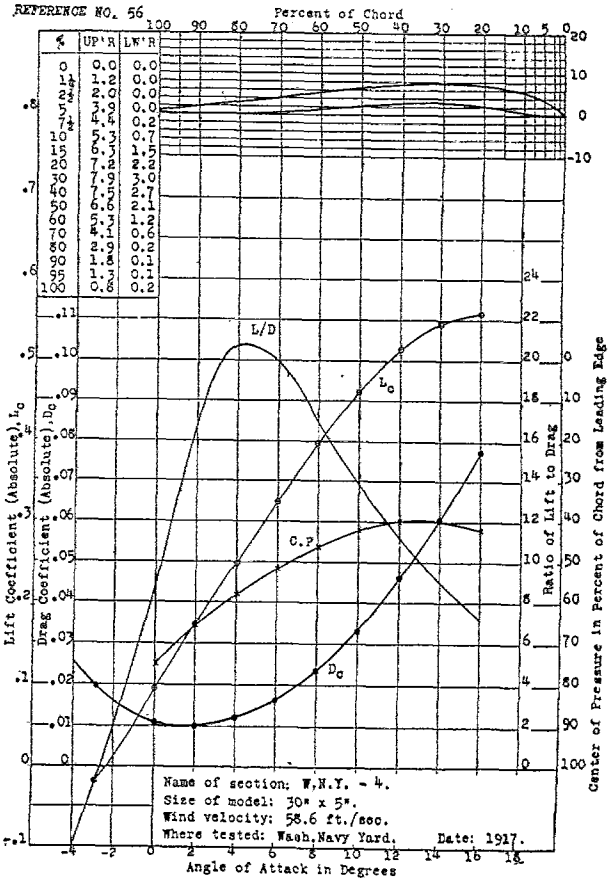

REFERENCE NO. 55

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 1.0 |
| 1¼ | 1.8 | 0.5 |
| 2½ | 2.5 | 0.2 |
| 5 | 3.6 | 0.0 |
| 7½ | 4.5 | 0.2 |
| 10 | 5.3 | 0.7 |
| 15 | 6.3 | 1.5 |
| 20 | 7.2 | 2.2 |
| 30 | 7.9 | 3.0 |
| 40 | 7.2 | 2.7 |
| 50 | 5.9 | 2.1 |
| 60 | 4.6 | 1.2 |
| 70 | 3.4 | 0.6 |
| 80 | 2.4 | 0.2 |
| 90 | 1.5 | 0.1 |
| 95 | 1.2 | 0.1 |
| 100 | 0.8 | 0.2 |

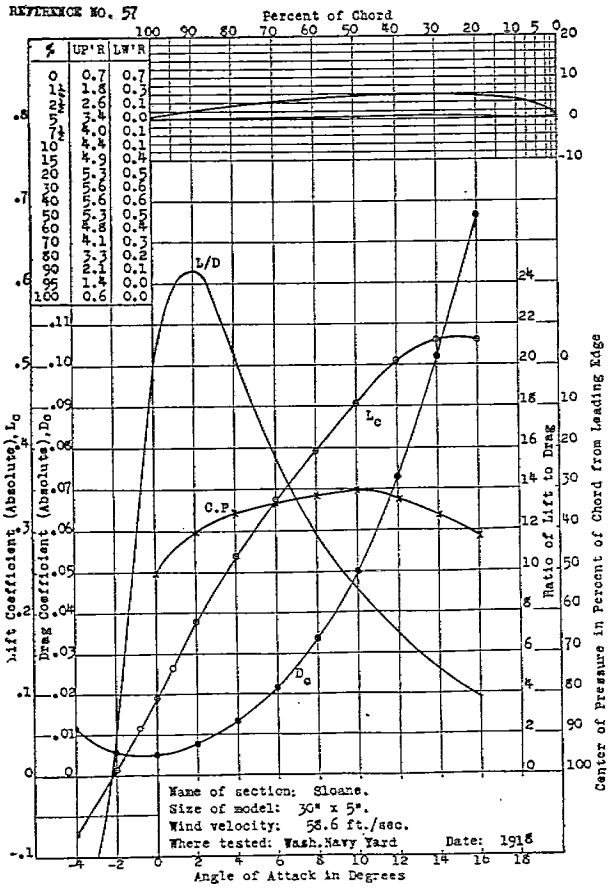



REFERENCE NO. 56

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.2 | 0.0 |
| 2½ | 2.0 | 0.0 |
| 5 | 3.9 | 0.0 |
| 7½ | 4.4 | 0.2 |
| 10 | 5.3 | 0.7 |
| 15 | 6.3 | 1.5 |
| 20 | 7.2 | 2.2 |
| 30 | 7.9 | 3.0 |
| 40 | 7.5 | 2.7 |
| 50 | 6.6 | 2.1 |
| 60 | 5.3 | 1.2 |
| 70 | 4.1 | 0.6 |
| 80 | 2.9 | 0.2 |
| 90 | 1.8 | 0.1 |
| 95 | 1.3 | 0.1 |
| 100 | 0.8 | 0.2 |

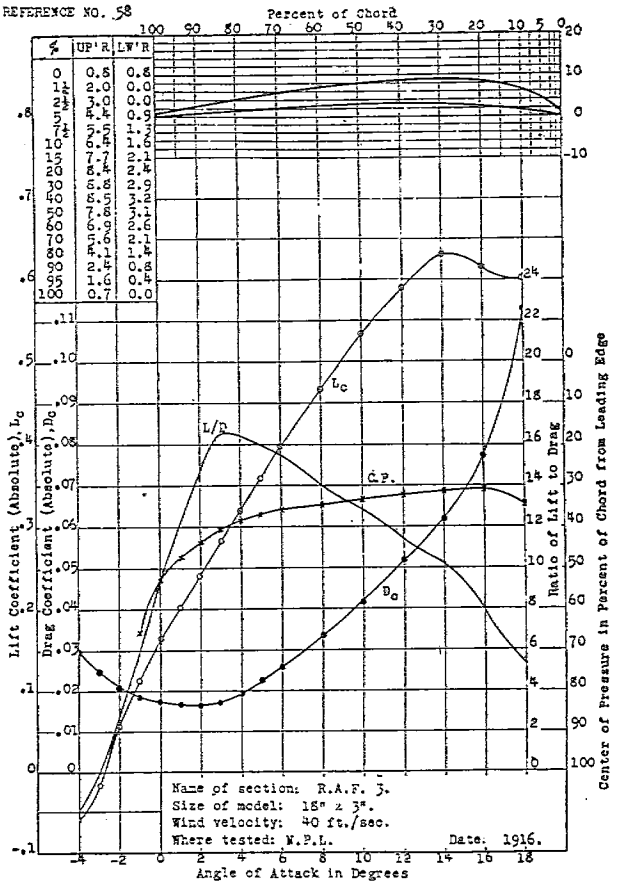


REFERENCE NO. 57



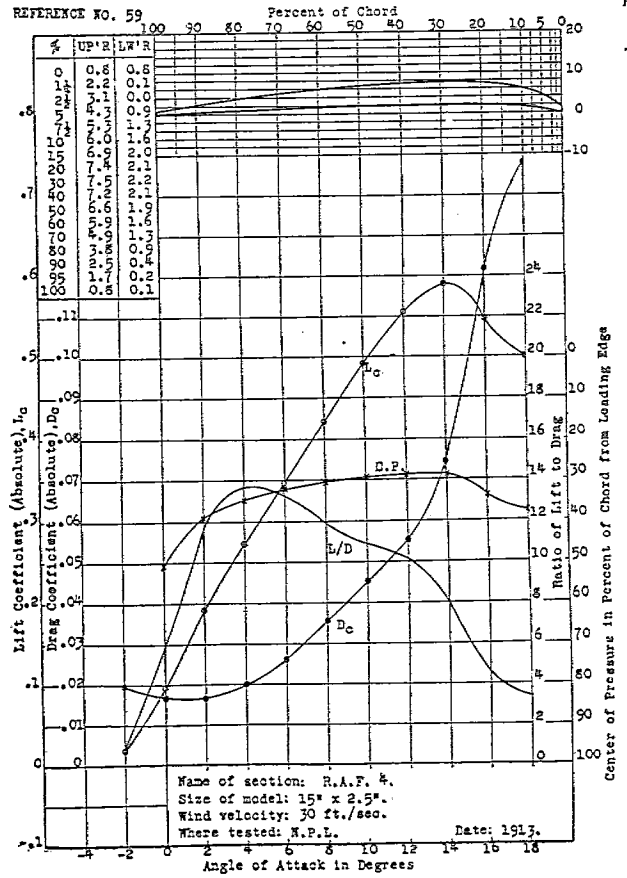

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 1.8 | 0.3 |
| 2½ | 2.6 | 0.1 |
| 5 | 3.4 | 0.0 |
| 7½ | 4.0 | 0.1 |
| 10 | 4.4 | 0.1 |
| 15 | 4.9 | 0.4 |
| 20 | 5.3 | 0.5 |
| 30 | 5.6 | 0.6 |
| 40 | 5.6 | 0.6 |
| 50 | 5.3 | 0.5 |
| 60 | 4.8 | 0.4 |
| 70 | 4.1 | 0.3 |
| 80 | 3.3 | 0.2 |
| 90 | 2.1 | 0.1 |
| 95 | 1.4 | 0.0 |
| 100 | 0.6 | 0.0 |

REFERENCE NO. 58



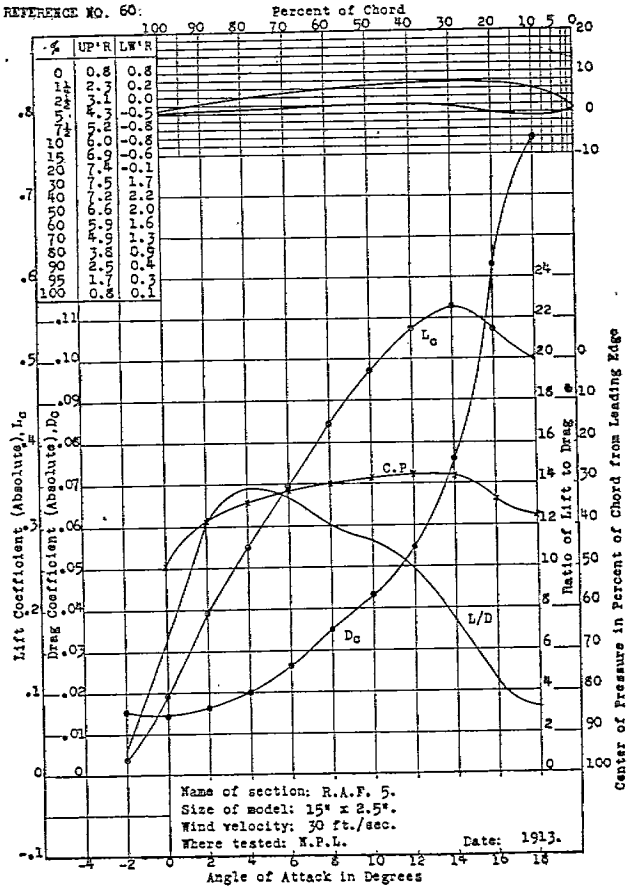

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.8 |
| 1¼ | 2.0 | 0.0 |
| 2½ | 3.0 | 0.0 |
| 5 | 4.4 | 0.9 |
| 7½ | 5.5 | 1.2 |
| 10 | 6.4 | 1.6 |
| 15 | 7.7 | 2.1 |
| 20 | 8.4 | 2.4 |
| 30 | 8.8 | 2.9 |
| 40 | 8.5 | 3.2 |
| 50 | 7.8 | 3.1 |
| 60 | 6.9 | 2.6 |
| 70 | 5.6 | 2.1 |
| 80 | 4.1 | 1.4 |
| 90 | 2.4 | 0.8 |
| 95 | 1.6 | 0.4 |
| 100 | 0.7 | 0.0 |

REFERENCE NO. 59




| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.8 |
| 1¼ | 2.2 | 0.1 |
| 2½ | 3.1 | 0.0 |
| 5 | 4.3 | 0.9 |
| 7½ | 5.2 | 1.3 |
| 10 | 6.0 | 1.6 |
| 15 | 6.9 | 2.0 |
| 20 | 7.4 | 2.1 |
| 30 | 7.5 | 2.2 |
| 40 | 7.2 | 2.1 |
| 50 | 6.6 | 1.9 |
| 60 | 5.9 | 1.6 |
| 70 | 4.9 | 1.3 |
| 80 | 3.8 | 0.9 |
| 90 | 2.5 | 0.4 |
| 95 | 1.7 | 0.2 |
| 100 | 0.8 | 0.1 |

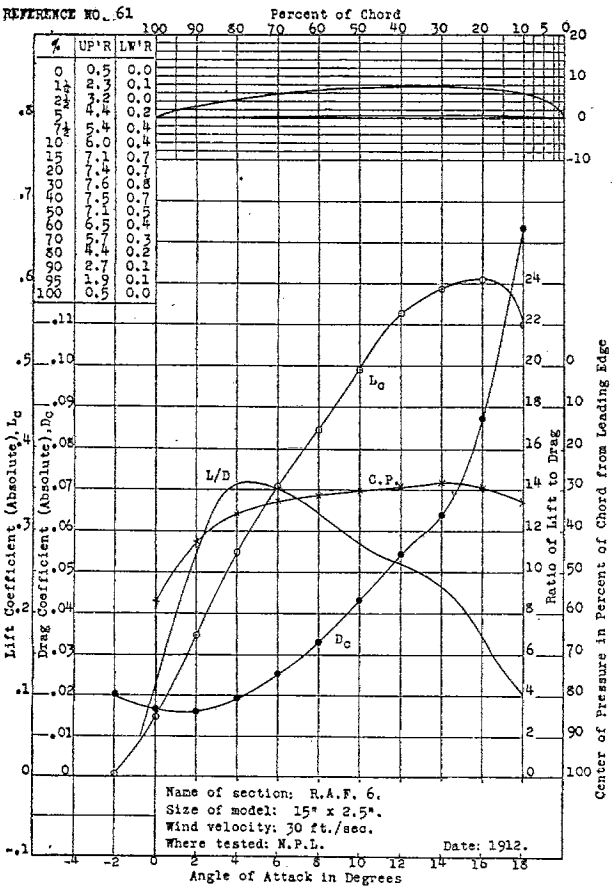
REFERENCE NO. 60:




| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.8 |
| 1¼ | 2.3 | 0.2 |
| 2½ | 3.1 | 0.0 |
| 5 | 4.3 | -0.5 |
| 7½ | 5.2 | -0.8 |
| 10 | 6.0 | -0.8 |
| 15 | 6.9 | -0.6 |
| 20 | 7.4 | -0.1 |
| 30 | 7.5 | 1.7 |
| 40 | 7.2 | 2.2 |
| 50 | 6.6 | 2.0 |
| 60 | 5.9 | 1.6 |
| 70 | 4.9 | 1.3 |
| 80 | 3.8 | 0.9 |
| 90 | 2.5 | 0.4 |
| 95 | 1.7 | 0.3 |
| 100 | 0.8 | 0.1 |

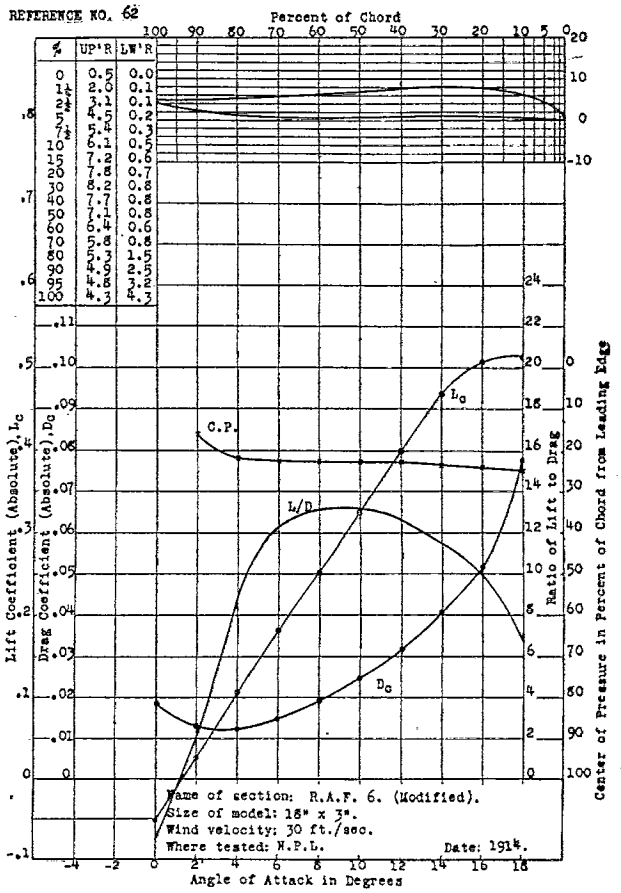
REFERENCE NO. 61

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.5 | 0.0 |
| 1¼ | 2.3 | 0.1 |
| 2½ | 3.2 | 0.0 |
| 5 | 4.4 | 0.2 |
| 7½ | 5.4 | 0.4 |
| 10 | 6.0 | 0.4 |
| 15 | 7.1 | 0.7 |
| 20 | 7.4 | 0.7 |
| 30 | 7.6 | 0.8 |
| 40 | 7.5 | 0.7 |
| 50 | 7.1 | 0.5 |
| 60 | 6.5 | 0.4 |
| 70 | 5.7 | 0.3 |
| 80 | 4.4 | 0.2 |
| 90 | 2.7 | 0.1 |
| 95 | 1.9 | 0.1 |
| 100 | 0.5 | 0.0 |



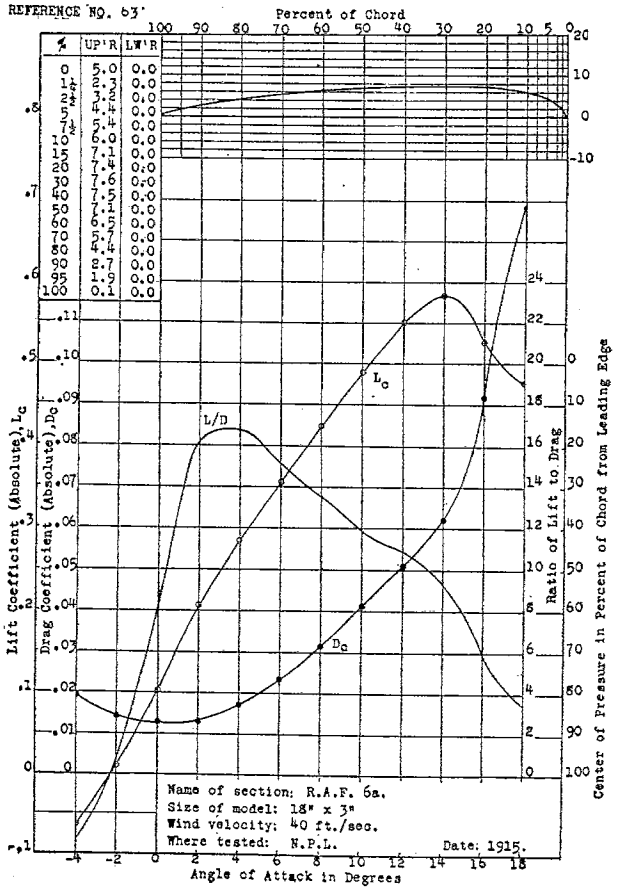

REFERENCE NO. 62

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.5 | 0.0 |
| 1¼ | 2.0 | 0.1 |
| 2½ | 3.1 | 0.1 |
| 5 | 4.5 | 0.2 |
| 7½ | 5.4 | 0.3 |
| 10 | 6.1 | 0.5 |
| 15 | 7.2 | 0.6 |
| 20 | 7.8 | 0.7 |
| 30 | 8.2 | 0.8 |
| 40 | 7.7 | 0.8 |
| 50 | 7.1 | 0.8 |
| 60 | 6.4 | 0.6 |
| 70 | 5.8 | 0.8 |
| 80 | 5.3 | 1.5 |
| 90 | 4.9 | 2.5 |
| 95 | 4.5 | 3.2 |
| 100 | 4.3 | 4.3 |



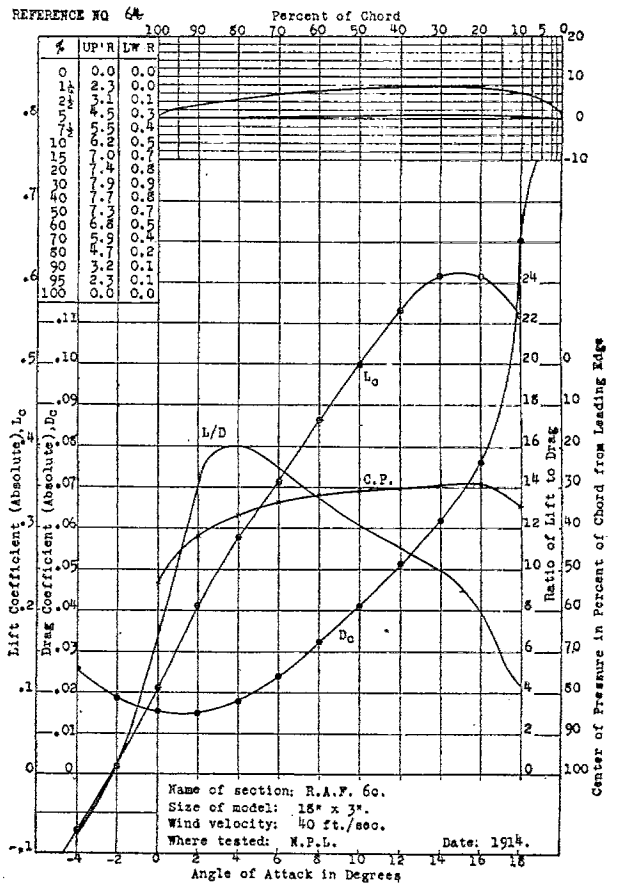

REFERENCE NO. 63

| % | UP'R | LW'R |
|---|---|---|
| 0 | 5.0 | 0.0 |
| 1¼ | 2.3 | 0.0 |
| 2½ | 3.2 | 0.0 |
| 5 | 4.4 | 0.0 |
| 7½ | 5.4 | 0.0 |
| 10 | 6.0 | 0.0 |
| 15 | 7.1 | 0.0 |
| 20 | 7.4 | 0.0 |
| 30 | 7.6 | 0.0 |
| 40 | 7.5 | 0.0 |
| 50 | 7.1 | 0.0 |
| 60 | 6.5 | 0.0 |
| 70 | 5.7 | 0.0 |
| 80 | 4.4 | 0.0 |
| 90 | 2.7 | 0.0 |
| 95 | 1.9 | 0.0 |
| 100 | 0.1 | 0.0 |

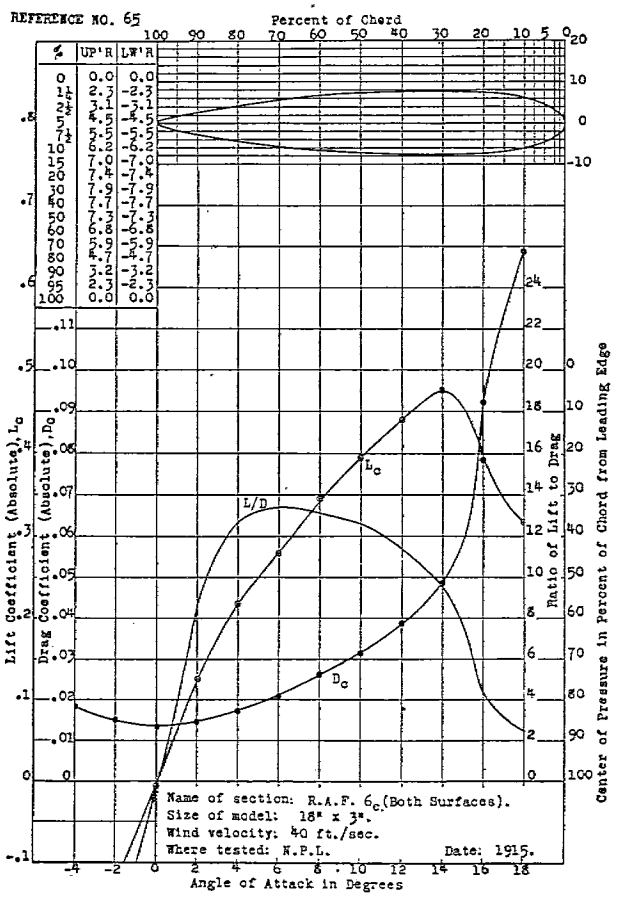



REFERENCE NO 64

| % | UP'R | LW R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.3 | 0.0 |
| 2½ | 3.1 | 0.1 |
| 5 | 4.5 | 0.3 |
| 7½ | 5.5 | 0.4 |
| 10 | 6.2 | 0.5 |
| 15 | 7.0 | 0.7 |
| 20 | 7.4 | 0.8 |
| 30 | 7.9 | 0.9 |
| 40 | 7.7 | 0.8 |
| 50 | 7.3 | 0.7 |
| 60 | 6.8 | 0.5 |
| 70 | 5.9 | 0.4 |
| 80 | 4.7 | 0.2 |
| 90 | 3.2 | 0.1 |
| 95 | 2.3 | 0.1 |
| 100 | 0.0 | 0.0 |

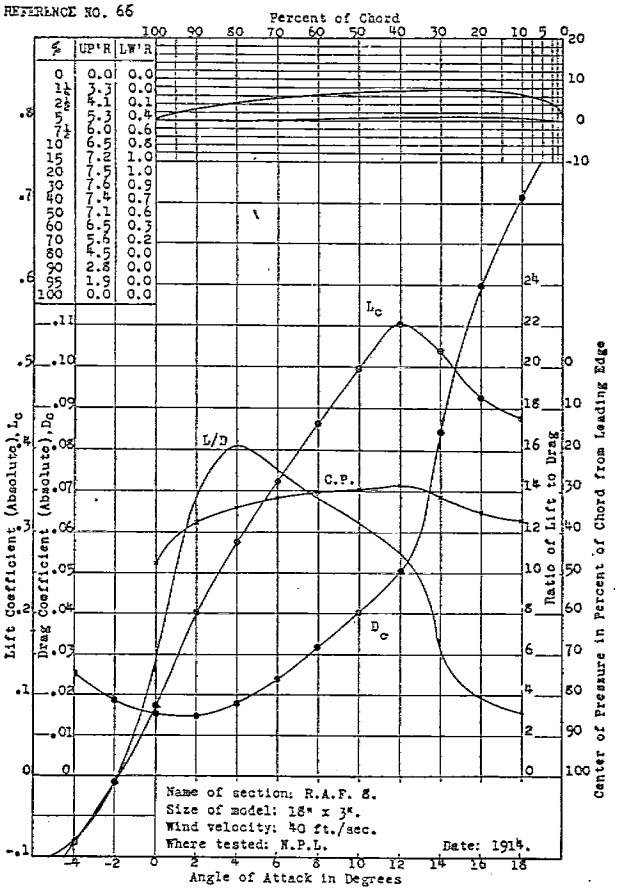


REFERENCE NO. 65



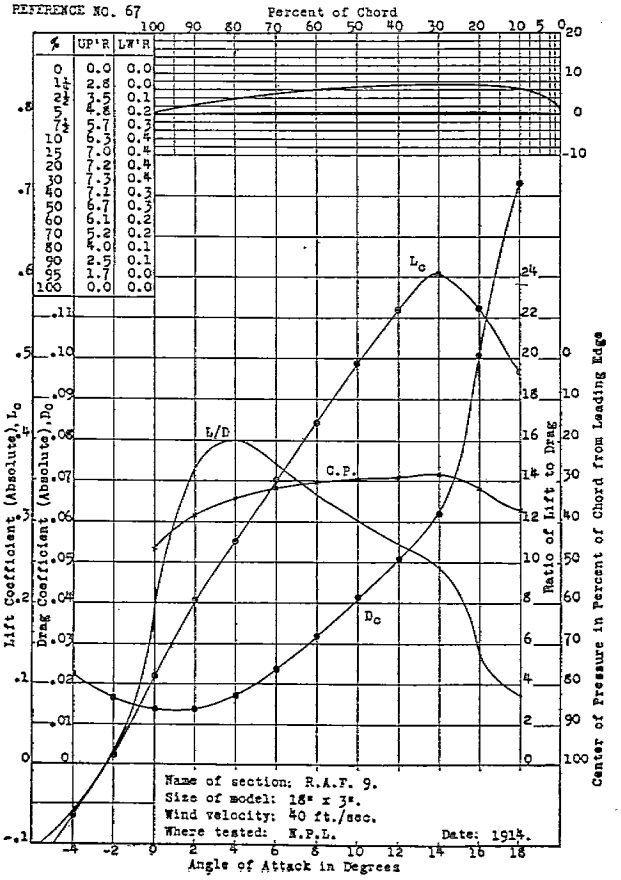

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.3 | -2.3 |
| 2½ | 3.1 | -3.1 |
| 5 | 4.5 | -4.5 |
| 7½ | 5.5 | -5.5 |
| 10 | 6.2 | -6.2 |
| 15 | 7.0 | -7.0 |
| 20 | 7.4 | -7.4 |
| 30 | 7.9 | -7.9 |
| 40 | 7.7 | -7.7 |
| 50 | 7.3 | -7.3 |
| 60 | 6.8 | -6.8 |
| 70 | 5.9 | -5.9 |
| 80 | 4.7 | -4.7 |
| 90 | 3.2 | -3.2 |
| 95 | 2.3 | -2.3 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 66



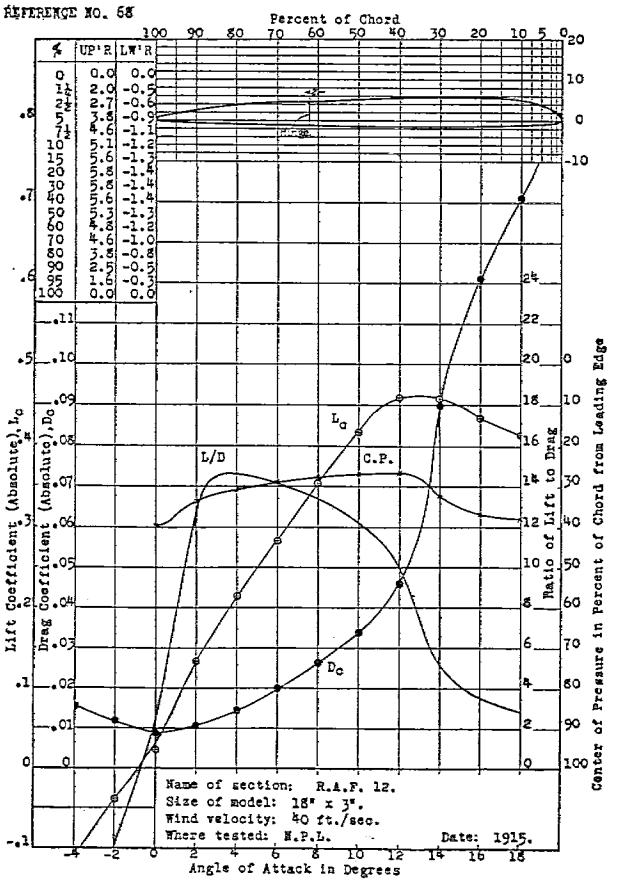

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 3.3 | 0.0 |
| 2½ | 4.1 | 0.1 |
| 5 | 5.3 | 0.4 |
| 7½ | 6.0 | 0.6 |
| 10 | 6.5 | 0.8 |
| 15 | 7.2 | 1.0 |
| 20 | 7.5 | 1.0 |
| 30 | 7.6 | 0.9 |
| 40 | 7.4 | 0.7 |
| 50 | 7.1 | 0.6 |
| 60 | 6.5 | 0.3 |
| 70 | 5.6 | 0.2 |
| 80 | 4.5 | 0.0 |
| 90 | 2.8 | 0.0 |
| 95 | 1.9 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 67



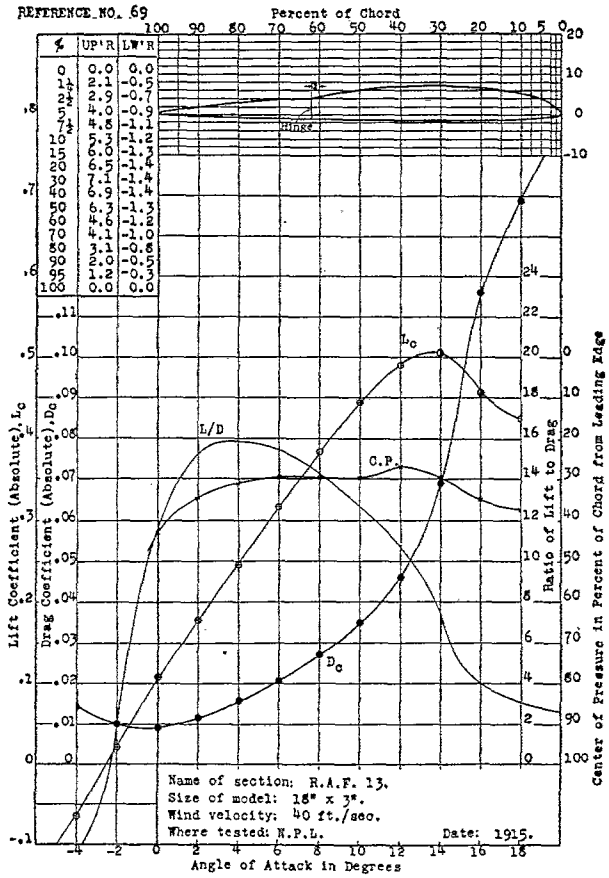

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.8 | 0.0 |
| 2½ | 3.5 | 0.1 |
| 5 | 4.8 | 0.2 |
| 7½ | 5.7 | 0.3 |
| 10 | 6.3 | 0.4 |
| 15 | 7.0 | 0.4 |
| 20 | 7.2 | 0.4 |
| 30 | 7.3 | 0.4 |
| 40 | 7.1 | 0.3 |
| 50 | 6.7 | 0.3 |
| 60 | 6.1 | 0.2 |
| 70 | 5.2 | 0.2 |
| 80 | 4.0 | 0.1 |
| 90 | 2.5 | 0.1 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 68



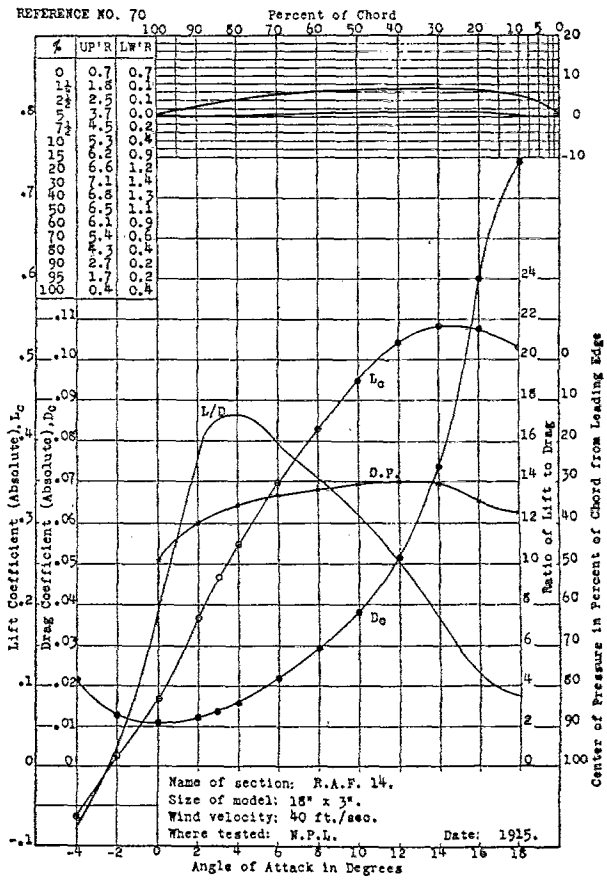

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.0 | -0.5 |
| 2½ | 2.7 | -0.6 |
| 5 | 3.8 | -0.9 |
| 7½ | 4.6 | -1.1 |
| 10 | 5.1 | -1.2 |
| 15 | 5.6 | -1.3 |
| 20 | 5.8 | -1.4 |
| 30 | 5.8 | -1.4 |
| 40 | 5.6 | -1.4 |
| 50 | 5.3 | -1.3 |
| 60 | 4.8 | -1.2 |
| 70 | 4.6 | -1.0 |
| 80 | 3.8 | -0.8 |
| 90 | 2.5 | -0.5 |
| 95 | 1.6 | -0.3 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 69



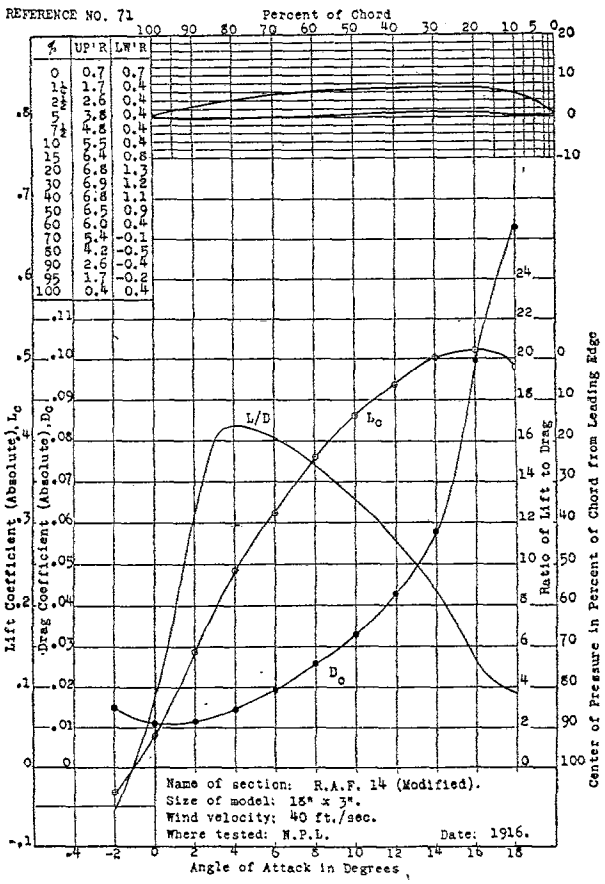

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.1 | -0.5 |
| 2½ | 2.9 | -0.7 |
| 5 | 4.0 | -0.9 |
| 7½ | 4.8 | -1.1 |
| 10 | 5.3 | -1.2 |
| 15 | 6.0 | -1.3 |
| 20 | 6.5 | -1.4 |
| 30 | 7.1 | -1.4 |
| 40 | 6.9 | -1.4 |
| 50 | 6.3 | -1.3 |
| 60 | 4.6 | -1.2 |
| 70 | 4.1 | -1.0 |
| 80 | 3.1 | -0.8 |
| 90 | 2.0 | -0.5 |
| 95 | 1.2 | -0.3 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 70



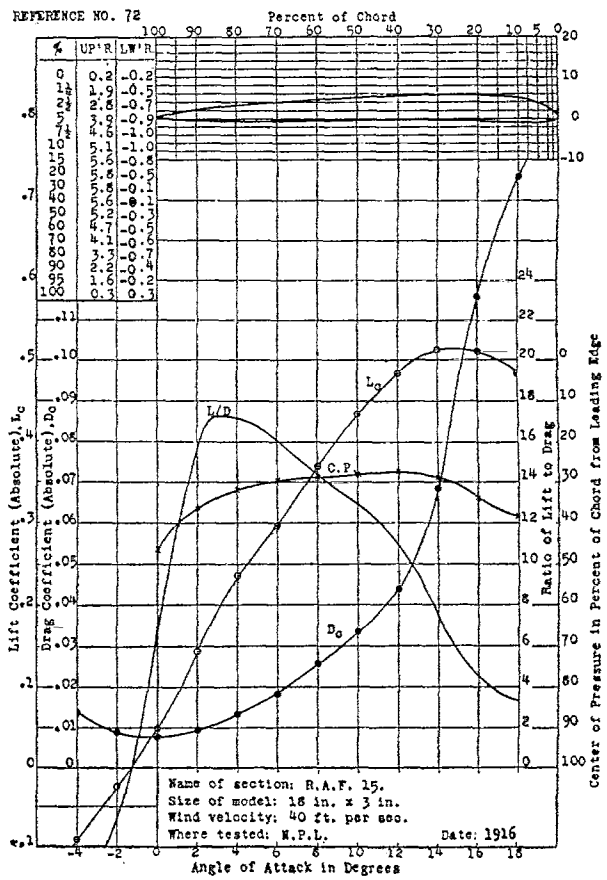

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 1.8 | 0.1 |
| 2½ | 2.5 | 0.1 |
| 5 | 3.7 | 0.0 |
| 7½ | 4.5 | 0.2 |
| 10 | 5.3 | 0.4 |
| 15 | 6.2 | 0.9 |
| 20 | 6.6 | 1.2 |
| 30 | 7.1 | 1.4 |
| 40 | 6.8 | 1.3 |
| 50 | 6.5 | 1.1 |
| 60 | 6.1 | 0.9 |
| 70 | 5.4 | 0.6 |
| 80 | 4.3 | 0.4 |
| 90 | 2.7 | 0.2 |
| 95 | 1.7 | 0.2 |
| 100 | 0.4 | 0.4 |

REFERENCE NO. 71



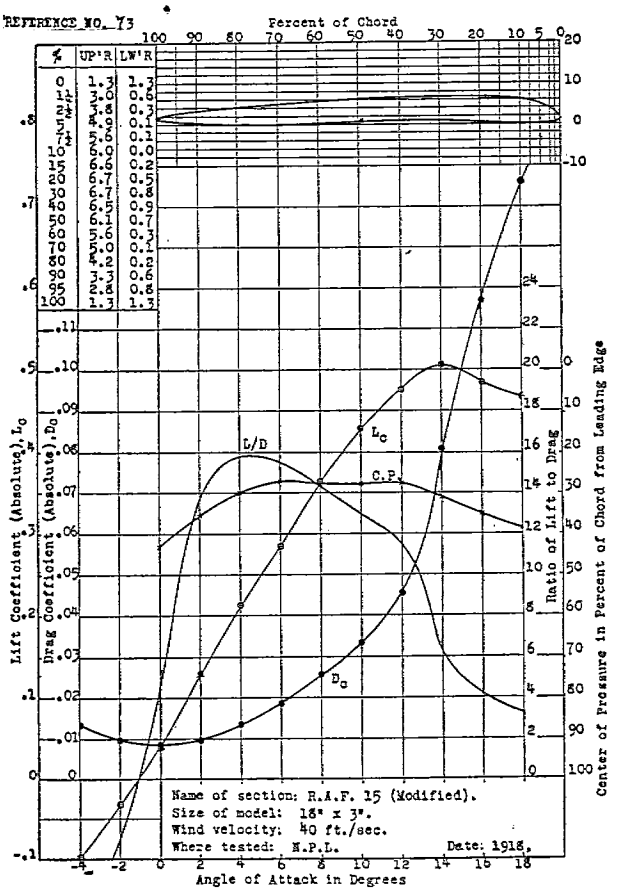

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 1.7 | 0.4 |
| 2½ | 2.6 | 0.4 |
| 5 | 3.8 | 0.4 |
| 7½ | 4.8 | 0.4 |
| 10 | 5.5 | 0.4 |
| 15 | 6.4 | 0.8 |
| 20 | 6.8 | 1.3 |
| 30 | 6.9 | 1.2 |
| 40 | 6.8 | 1.1 |
| 50 | 6.5 | 0.9 |
| 60 | 6.0 | 0.4 |
| 70 | 5.4 | -0.1 |
| 80 | 4.2 | -0.5 |
| 90 | 2.6 | -0.4 |
| 95 | 1.7 | -0.2 |
| 100 | 0.4 | 0.4 |

REFERENCE NO. 72



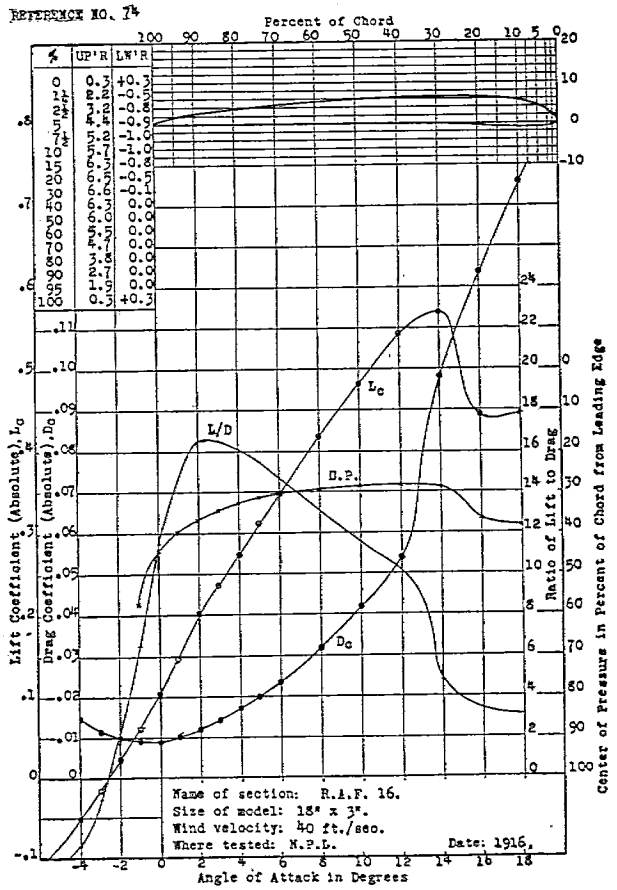

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.2 | -0.2 |
| 1¼ | 1.9 | -0.5 |
| 2½ | 2.8 | -0.7 |
| 5 | 3.9 | -0.9 |
| 7½ | 4.6 | -1.0 |
| 10 | 5.1 | -1.0 |
| 15 | 5.6 | -0.8 |
| 20 | 5.8 | -0.5 |
| 30 | 5.8 | -0.1 |
| 40 | 5.6 | -0.1 |
| 50 | 5.2 | -0.3 |
| 60 | 4.7 | -0.5 |
| 70 | 4.1 | -0.6 |
| 80 | 3.3 | -0.7 |
| 90 | 2.2 | -0.4 |
| 95 | 1.6 | -0.2 |
| 100 | 0.3 | 0.3 |

REFERENCE NO. 73



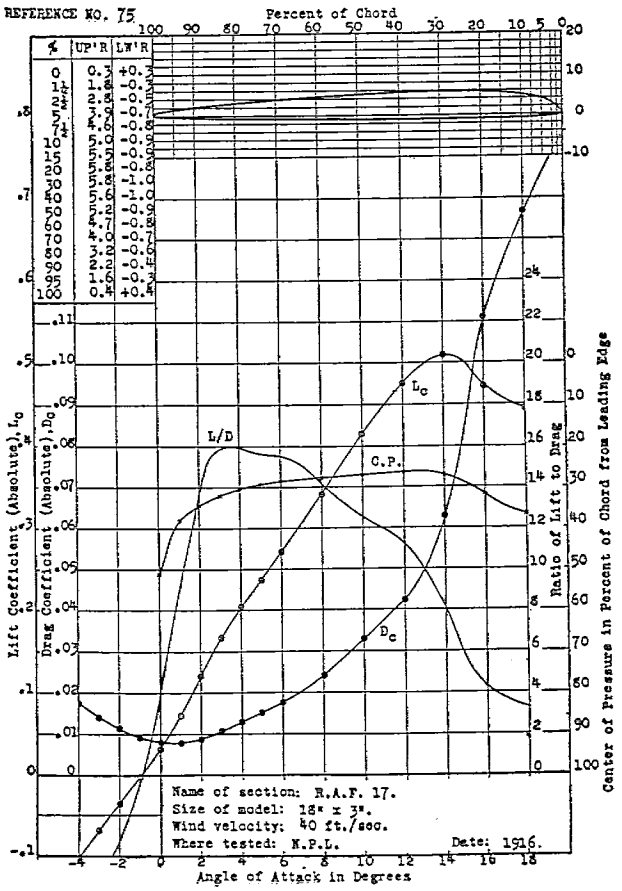

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 1.3 |
| 1¼ | 3.0 | 0.6 |
| 2½ | 3.8 | 0.3 |
| 5 | 4.9 | 0.1 |
| 7½ | 5.6 | 0.1 |
| 10 | 6.0 | 0.0 |
| 15 | 6.6 | 0.2 |
| 20 | 6.7 | 0.5 |
| 30 | 6.7 | 0.8 |
| 40 | 6.5 | 0.9 |
| 50 | 6.1 | 0.7 |
| 60 | 5.6 | 0.3 |
| 70 | 5.0 | 0.1 |
| 80 | 4.2 | 0.2 |
| 90 | 3.3 | 0.6 |
| 95 | 2.8 | 0.8 |
| 100 | 1.3 | 1.3 |

REFERENCE NO. 74



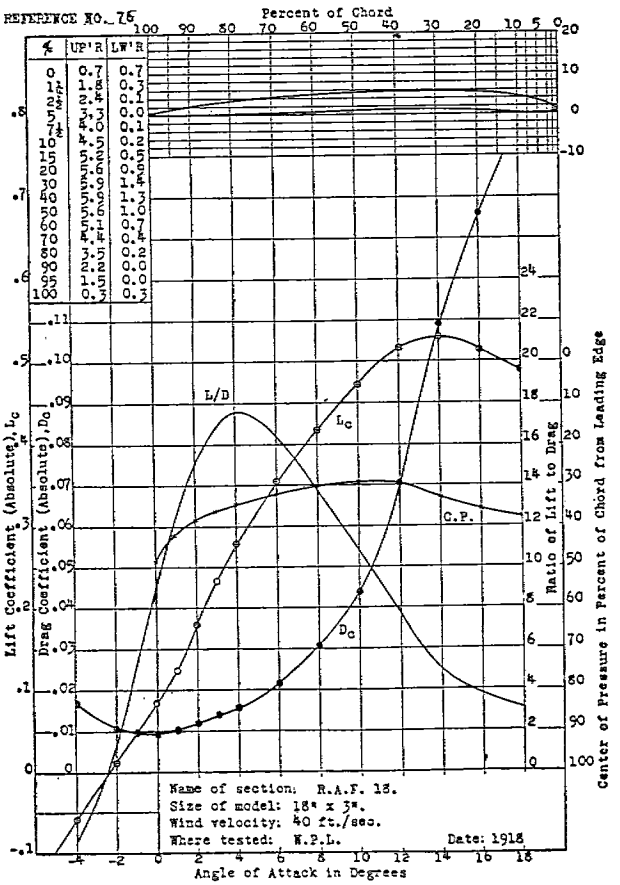

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.3 | +0.3 |
| 1¼ | 2.2 | -0.5 |
| 2½ | 3.2 | -0.8 |
| 5 | 4.4 | -0.9 |
| 7½ | 5.2 | -1.0 |
| 10 | 5.7 | -1.0 |
| 15 | 6.3 | -0.8 |
| 20 | 6.5 | -0.5 |
| 30 | 6.6 | -0.1 |
| 40 | 6.3 | 0.0 |
| 50 | 6.0 | 0.0 |
| 60 | 5.5 | 0.0 |
| 70 | 4.7 | 0.0 |
| 80 | 3.8 | 0.0 |
| 90 | 2.7 | 0.0 |
| 95 | 1.9 | 0.0 |
| 100 | 0.3 | +0.3 |

REFERENCE NO. 75



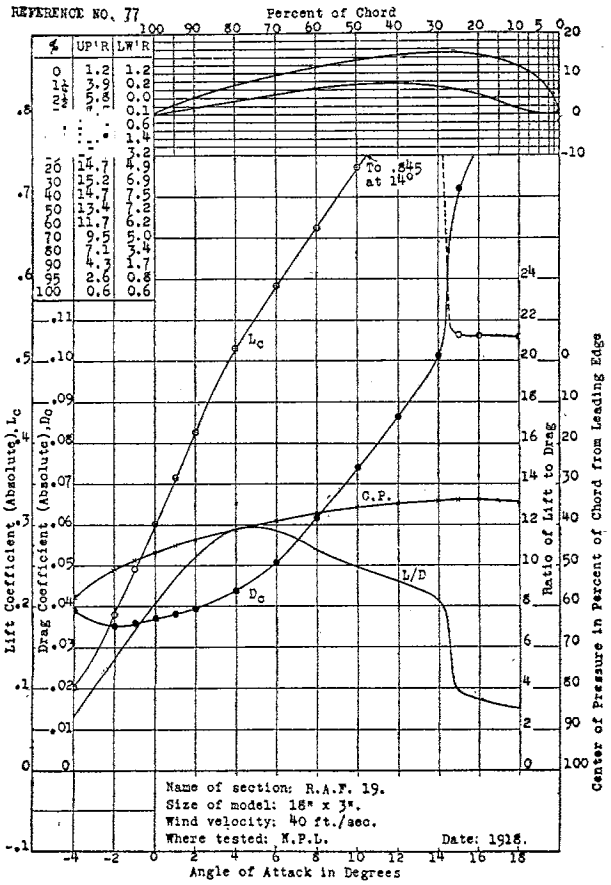

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.3 | +0.3 |
| 1¼ | 1.8 | -0.3 |
| 2½ | 2.8 | -0.5 |
| 5 | 3.9 | -0.7 |
| 7½ | 4.6 | -0.8 |
| 10 | 5.0 | -0.9 |
| 15 | 5.5 | -0.9 |
| 20 | 5.8 | -0.8 |
| 30 | 5.8 | -1.0 |
| 40 | 5.6 | -1.0 |
| 50 | 5.2 | -0.9 |
| 60 | 4.7 | -0.8 |
| 70 | 4.0 | -0.7 |
| 80 | 3.2 | -0.6 |
| 90 | 2.2 | -0.4 |
| 95 | 1.6 | -0.3 |
| 100 | 0.4 | +0.4 |

REFERENCE NO. 76



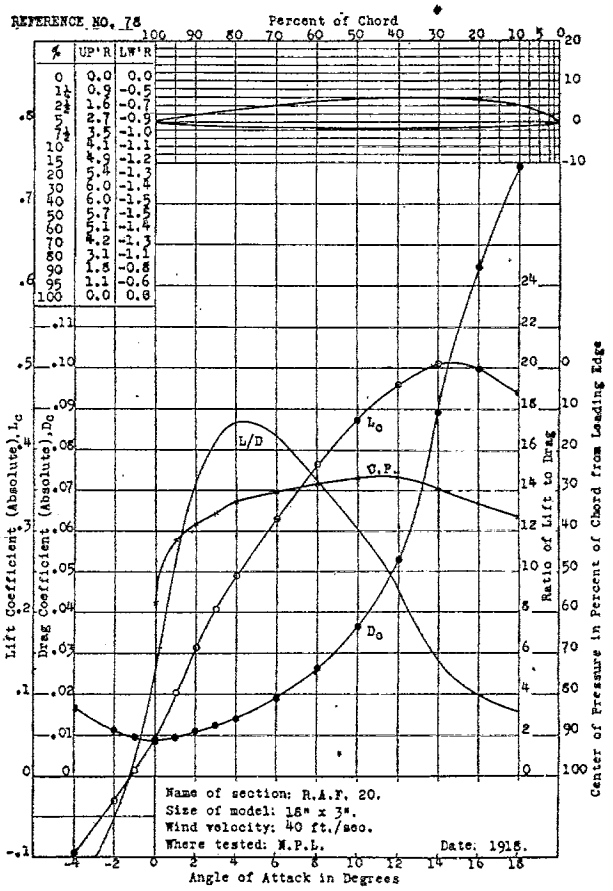

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 1.8 | 0.3 |
| 2½ | 2.4 | 0.1 |
| 5 | 3.3 | 0.0 |
| 7½ | 4.0 | 0.1 |
| 10 | 4.5 | 0.2 |
| 15 | 5.2 | 0.5 |
| 20 | 5.6 | 0.9 |
| 30 | 5.9 | 1.4 |
| 40 | 5.9 | 1.3 |
| 50 | 5.6 | 1.0 |
| 60 | 5.1 | 0.7 |
| 70 | 4.4 | 0.4 |
| 80 | 3.5 | 0.2 |
| 90 | 2.2 | 0.0 |
| 95 | 1.5 | 0.0 |
| 100 | 0.3 | 0.3 |

REFERENCE NO. 77



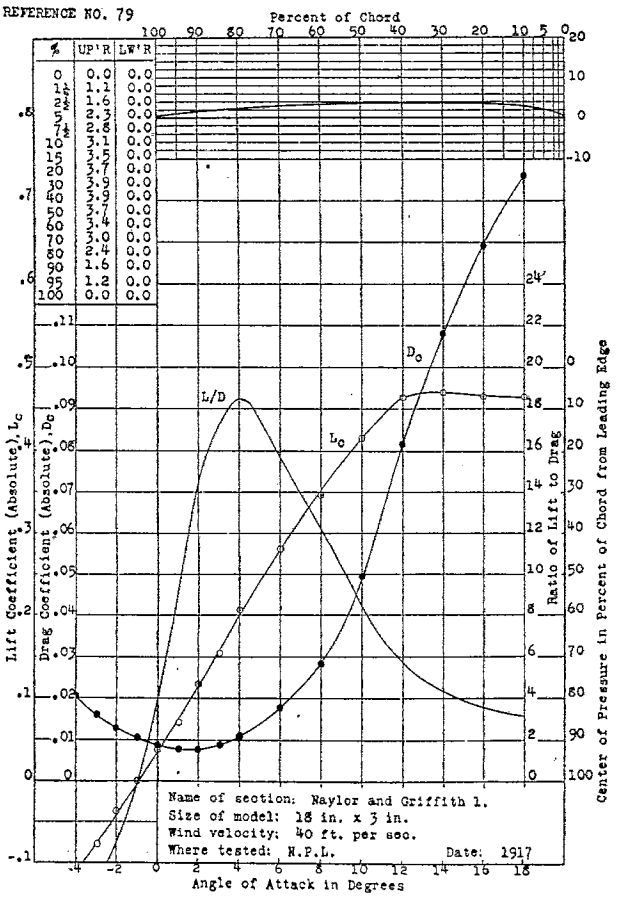

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.2 | 1.2 |
| 1¼ | 3.9 | 0.2 |
| 2½ | 5.8 | 0.0 |
| 5 | [illegible] | 0.1 |
| [illegible] | [illegible] | 0.6 |
| [illegible] | [illegible] | 1.4 |
| [illegible] | [illegible] | 3.2 |
| 20 | 14.7 | 4.9 |
| 30 | 15.2 | 6.9 |
| 40 | 14.7 | 7.5 |
| 50 | 13.4 | 7.2 |
| 60 | 11.7 | 6.2 |
| 70 | 9.5 | 5.0 |
| 80 | 7.1 | 3.4 |
| 90 | 4.3 | 1.7 |
| 95 | 2.6 | 0.8 |
| 100 | 0.6 | 0.6 |

REFERENCE NO. 78



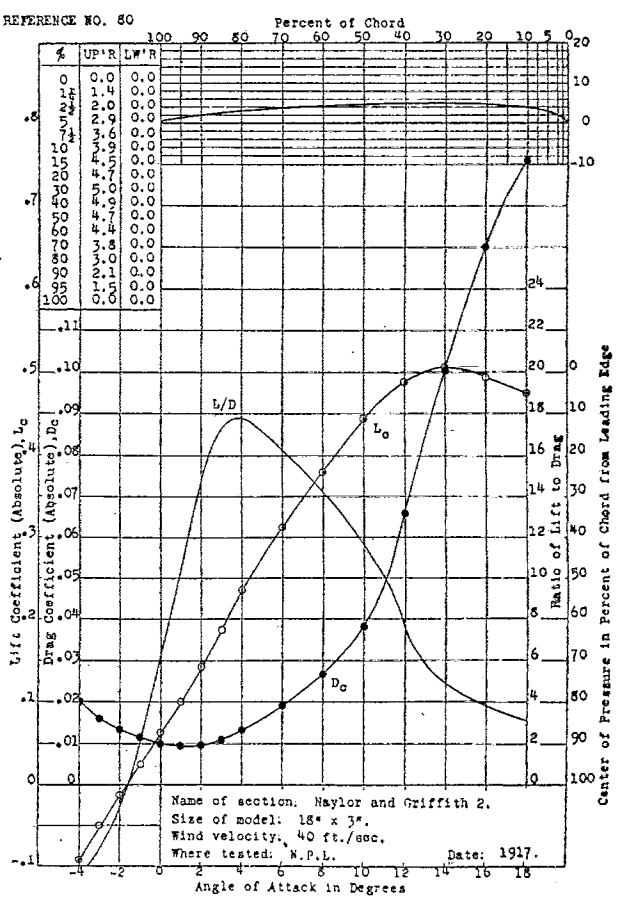

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 0.9 | -0.5 |
| 2½ | 1.6 | -0.7 |
| 5 | 2.7 | -0.9 |
| 7½ | 3.5 | -1.0 |
| 10 | 4.1 | -1.1 |
| 15 | 4.9 | -1.2 |
| 20 | 5.4 | -1.3 |
| 30 | 6.0 | -1.4 |
| 40 | 6.0 | -1.5 |
| 50 | 5.7 | -1.5 |
| 60 | 5.1 | -1.4 |
| 70 | 4.2 | -1.3 |
| 80 | 3.1 | -1.1 |
| 90 | 1.8 | -0.8 |
| 95 | 1.1 | -0.6 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 79



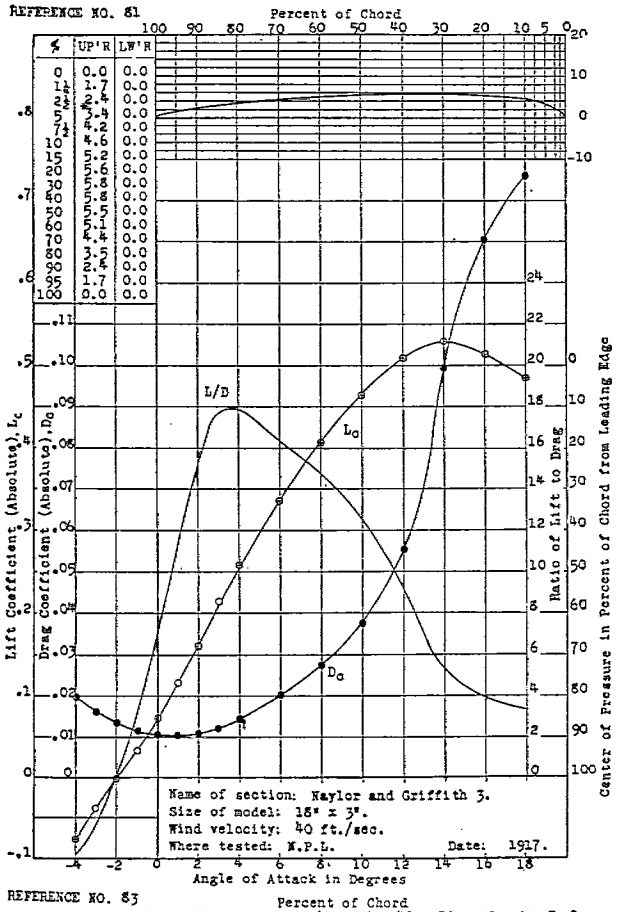

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.1 | 0.0 |
| 2½ | 1.6 | 0.0 |
| 5 | 2.3 | 0.0 |
| 7½ | 2.8 | 0.0 |
| 10 | 3.1 | 0.0 |
| 15 | 3.5 | 0.0 |
| 20 | 3.7 | 0.0 |
| 30 | 3.9 | 0.0 |
| 40 | 3.9 | 0.0 |
| 50 | 3.7 | 0.0 |
| 60 | 3.4 | 0.0 |
| 70 | 3.0 | 0.0 |
| 80 | 2.4 | 0.0 |
| 90 | 1.6 | 0.0 |
| 95 | 1.2 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 80



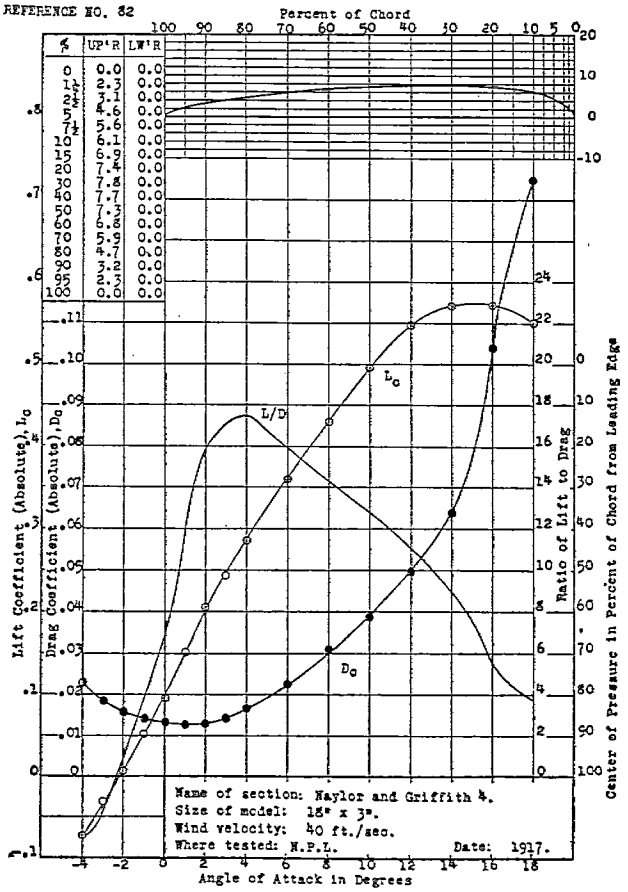

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.4 | 0.0 |
| 2½ | 2.0 | 0.0 |
| 5 | 2.9 | 0.0 |
| 7½ | 3.6 | 0.0 |
| 10 | 3.9 | 0.0 |
| 15 | 4.5 | 0.0 |
| 20 | 4.7 | 0.0 |
| 30 | 5.0 | 0.0 |
| 40 | 4.9 | 0.0 |
| 50 | 4.7 | 0.0 |
| 60 | 4.4 | 0.0 |
| 70 | 3.8 | 0.0 |
| 80 | 3.0 | 0.0 |
| 90 | 2.1 | 0.0 |
| 95 | 1.5 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 81



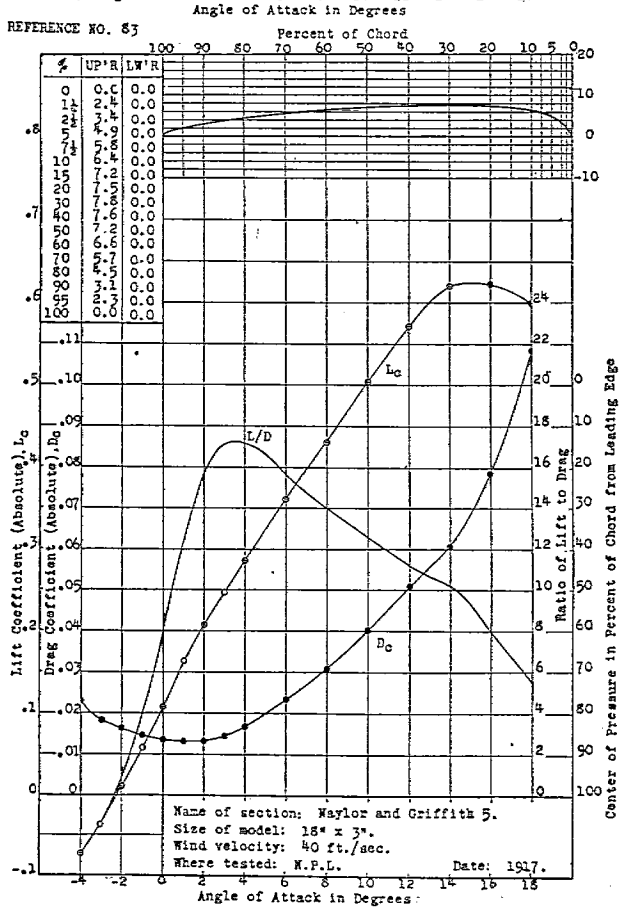

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.7 | 0.0 |
| 2½ | 2.4 | 0.0 |
| 5 | 3.4 | 0.0 |
| 7½ | 4.2 | 0.0 |
| 10 | 4.6 | 0.0 |
| 15 | 5.2 | 0.0 |
| 20 | 5.6 | 0.0 |
| 30 | 5.8 | 0.0 |
| 40 | 5.8 | 0.0 |
| 50 | 5.5 | 0.0 |
| 60 | 5.1 | 0.0 |
| 70 | 4.4 | 0.0 |
| 80 | 3.5 | 0.0 |
| 90 | 2.4 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 82



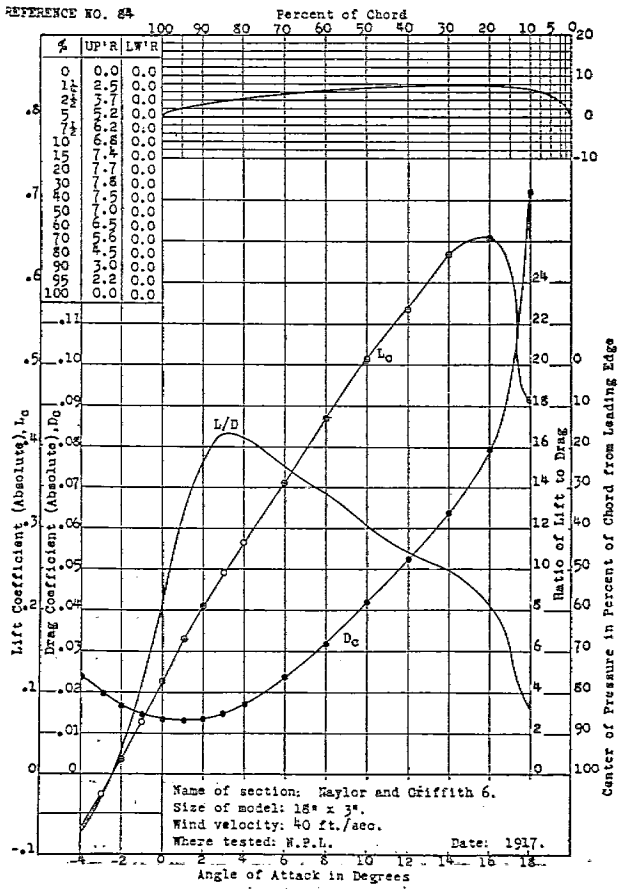

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.3 | 0.0 |
| 2½ | 3.1 | 0.0 |
| 5 | 4.6 | 0.0 |
| 7½ | 5.6 | 0.0 |
| 10 | 6.1 | 0.0 |
| 15 | 6.9 | 0.0 |
| 20 | 7.4 | 0.0 |
| 30 | 7.8 | 0.0 |
| 40 | 7.7 | 0.0 |
| 50 | 7.3 | 0.0 |
| 60 | 6.8 | 0.0 |
| 70 | 5.9 | 0.0 |
| 80 | 4.7 | 0.0 |
| 90 | 3.2 | 0.0 |
| 95 | 2.3 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 83



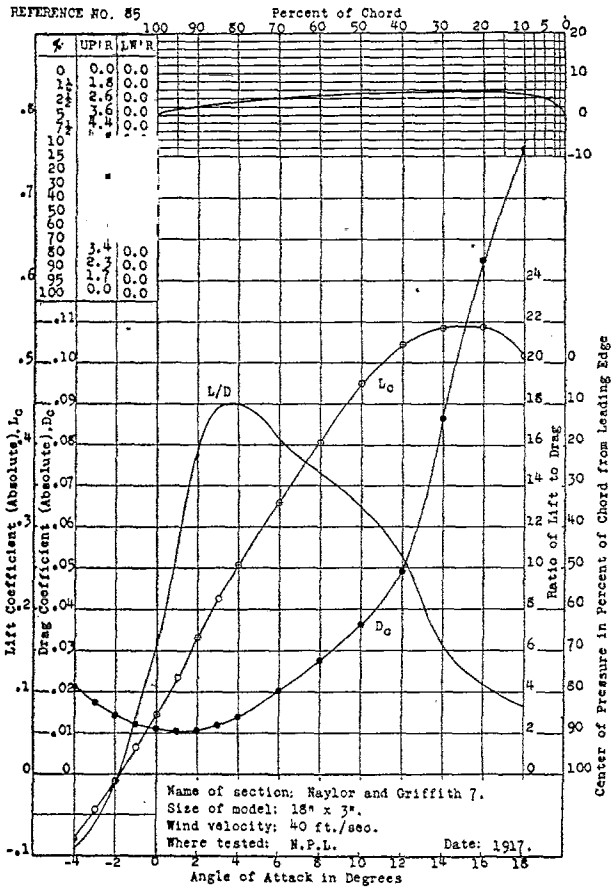

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.4 | 0.0 |
| 2½ | 3.4 | 0.0 |
| 5 | 4.9 | 0.0 |
| 7½ | 5.8 | 0.0 |
| 10 | 6.4 | 0.0 |
| 15 | 7.2 | 0.0 |
| 20 | 7.5 | 0.0 |
| 30 | 7.8 | 0.0 |
| 40 | 7.6 | 0.0 |
| 50 | 7.2 | 0.0 |
| 60 | 6.6 | 0.0 |
| 70 | 5.7 | 0.0 |
| 80 | 4.5 | 0.0 |
| 90 | 3.1 | 0.0 |
| 95 | 2.3 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 84



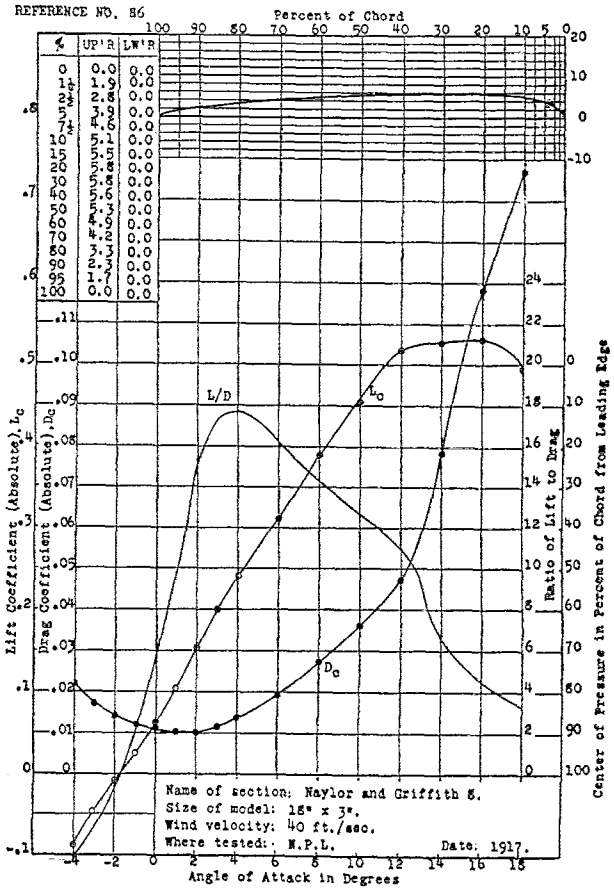

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.5 | 0.0 |
| 2½ | 3.7 | 0.0 |
| 5 | 5.2 | 0.0 |
| 7½ | 6.2 | 0.0 |
| 10 | 6.8 | 0.0 |
| 15 | 7.4 | 0.0 |
| 20 | 7.7 | 0.0 |
| 30 | 7.8 | 0.0 |
| 40 | 7.5 | 0.0 |
| 50 | 7.0 | 0.0 |
| 60 | 6.5 | 0.0 |
| 70 | 5.8 | 0.0 |
| 80 | 4.5 | 0.0 |
| 90 | 3.0 | 0.0 |
| 95 | 2.2 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 85



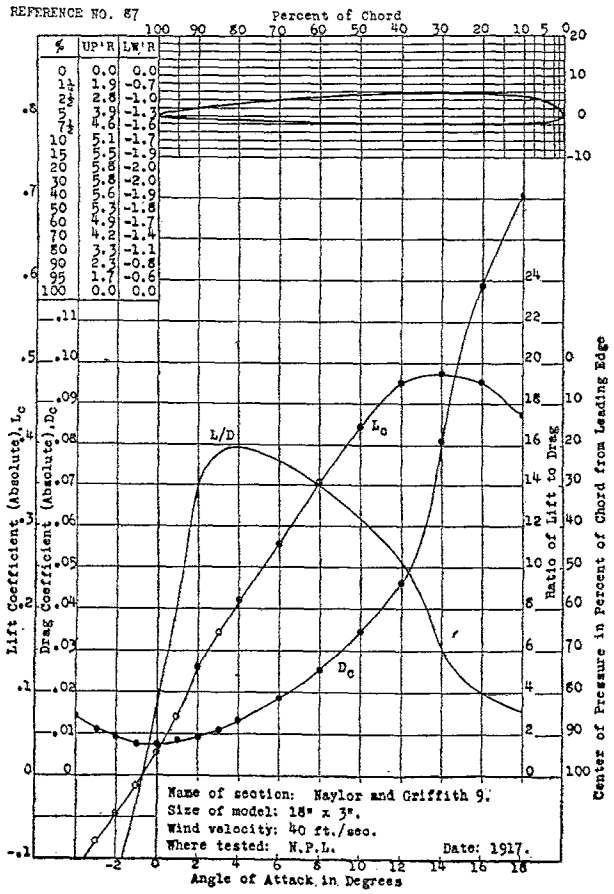

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.8 | 0.0 |
| 2½ | 2.6 | 0.0 |
| 5 | 3.6 | 0.0 |
| 7½ | 4.4 | 0.0 |
| 10 | | |
| 15 | | |
| 20 | | |
| 30 | | |
| 40 | | |
| 50 | | |
| 60 | | |
| 70 | | |
| 80 | 3.4 | 0.0 |
| 90 | 2.3 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 86



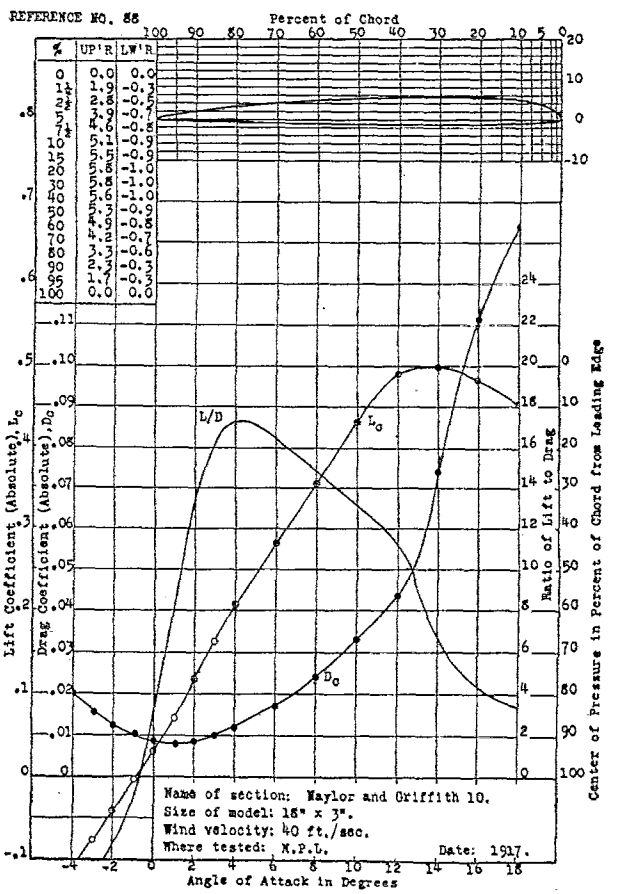

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | 0.0 |
| 2½ | 2.8 | 0.0 |
| 5 | 3.9 | 0.0 |
| 7½ | 4.6 | 0.0 |
| 10 | 5.1 | 0.0 |
| 15 | 5.5 | 0.0 |
| 20 | 5.8 | 0.0 |
| 30 | 5.8 | 0.0 |
| 40 | 5.6 | 0.0 |
| 50 | 5.3 | 0.0 |
| 60 | 4.9 | 0.0 |
| 70 | 4.2 | 0.0 |
| 80 | 3.3 | 0.0 |
| 90 | 2.3 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 87



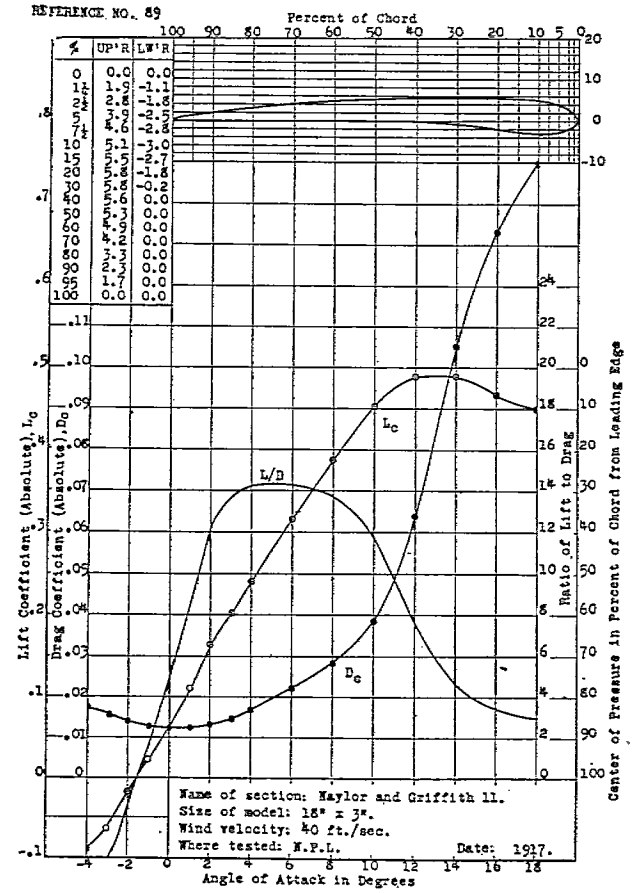

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | -0.7 |
| 2½ | 2.8 | -1.0 |
| 5 | 3.9 | -1.2 |
| 7½ | 4.6 | -1.6 |
| 10 | 5.1 | -1.7 |
| 15 | 5.5 | -1.9 |
| 20 | 5.8 | -2.0 |
| 30 | 5.8 | -2.0 |
| 40 | 5.6 | -1.9 |
| 50 | 5.3 | -1.8 |
| 60 | 4.9 | -1.7 |
| 70 | 4.2 | -1.4 |
| 80 | 3.3 | -1.1 |
| 90 | 2.3 | -0.8 |
| 95 | 1.7 | -0.6 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 88



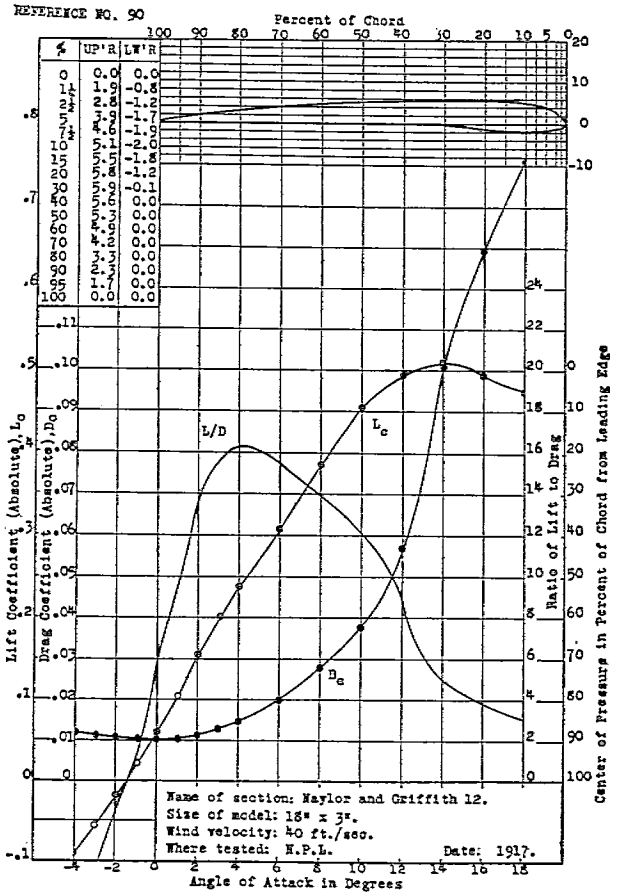

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | -0.3 |
| 2½ | 2.8 | -0.5 |
| 5 | 3.9 | -0.7 |
| 7½ | 4.6 | -0.8 |
| 10 | 5.1 | -0.9 |
| 15 | 5.5 | -0.9 |
| 20 | 5.8 | -1.0 |
| 30 | 5.8 | -1.0 |
| 40 | 5.6 | -1.0 |
| 50 | 5.3 | -0.9 |
| 60 | 4.9 | -0.8 |
| 70 | 4.2 | -0.7 |
| 80 | 3.3 | -0.6 |
| 90 | 2.3 | -0.3 |
| 95 | 1.7 | -0.3 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 89



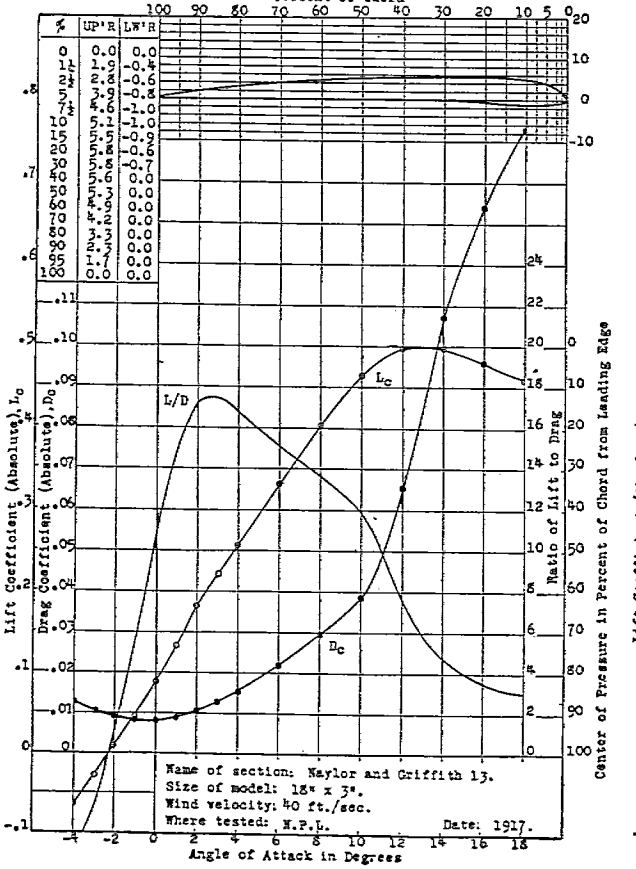

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | -1.1 |
| 2½ | 2.8 | -1.8 |
| 5 | 3.9 | -2.5 |
| 7½ | 4.6 | -2.8 |
| 10 | 5.1 | -3.0 |
| 15 | 5.5 | -2.7 |
| 20 | 5.8 | -1.8 |
| 30 | 5.8 | -0.2 |
| 40 | 5.6 | 0.0 |
| 50 | 5.3 | 0.0 |
| 60 | 4.9 | 0.0 |
| 70 | 4.2 | 0.0 |
| 80 | 3.3 | 0.0 |
| 90 | 2.3 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 90



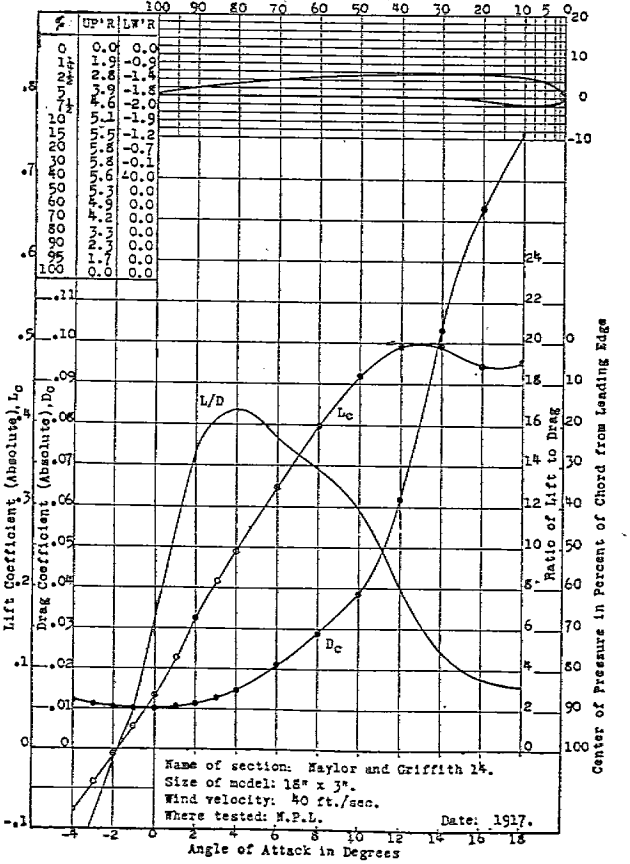

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | -0.8 |
| 2½ | 2.8 | -1.2 |
| 5 | 3.9 | -1.7 |
| 7½ | 4.6 | -1.9 |
| 10 | 5.1 | -2.0 |
| 15 | 5.5 | -1.8 |
| 20 | 5.8 | -1.2 |
| 30 | 5.9 | -0.1 |
| 40 | 5.6 | 0.0 |
| 50 | 5.3 | 0.0 |
| 60 | 4.9 | 0.0 |
| 70 | 4.2 | 0.0 |
| 80 | 3.3 | 0.0 |
| 90 | 2.3 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 91



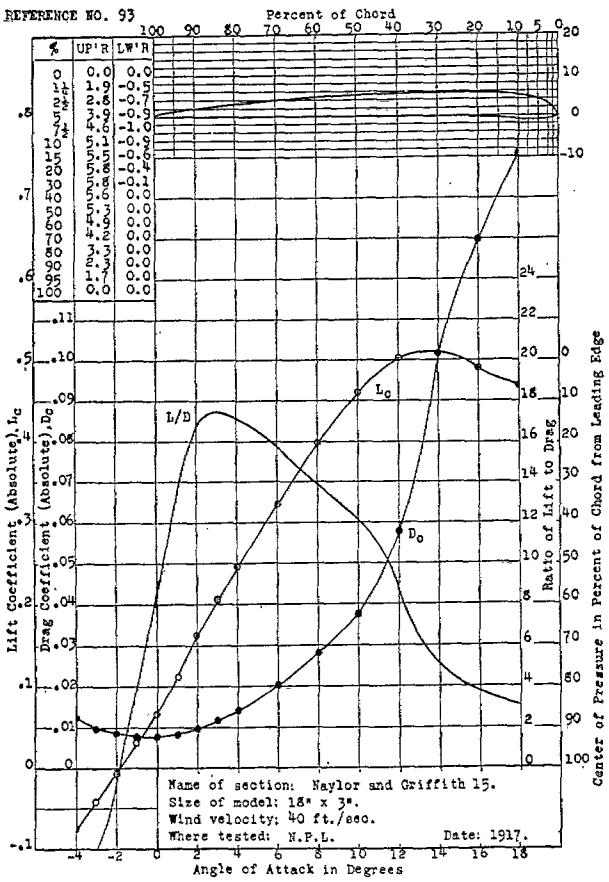

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | -0.4 |
| 2½ | 2.8 | -0.6 |
| 5 | 3.9 | -0.8 |
| 7½ | 4.6 | -1.0 |
| 10 | 5.1 | -1.0 |
| 15 | 5.5 | -0.9 |
| 20 | 5.8 | -0.6 |
| 30 | 5.8 | -0.7 |
| 40 | 5.6 | 0.0 |
| 50 | 5.3 | 0.0 |
| 60 | 4.9 | 0.0 |
| 70 | 4.2 | 0.0 |
| 80 | 3.3 | 0.0 |
| 90 | 2.3 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 92



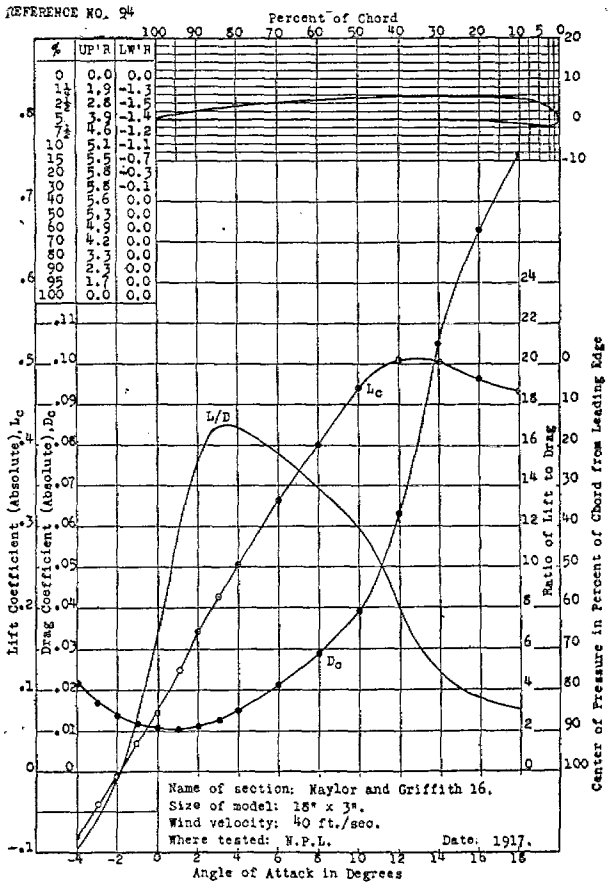

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | -0.9 |
| 2½ | 2.8 | -1.4 |
| 5 | 3.9 | -1.8 |
| 7½ | 4.6 | -2.0 |
| 10 | 5.1 | -1.9 |
| 15 | 5.5 | -1.2 |
| 20 | 5.8 | -0.7 |
| 30 | 5.8 | -0.1 |
| 40 | 5.6 | 0.0 |
| 50 | 5.3 | 0.0 |
| 60 | 4.9 | 0.0 |
| 70 | 4.2 | 0.0 |
| 80 | 3.3 | 0.0 |
| 90 | 2.3 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 93



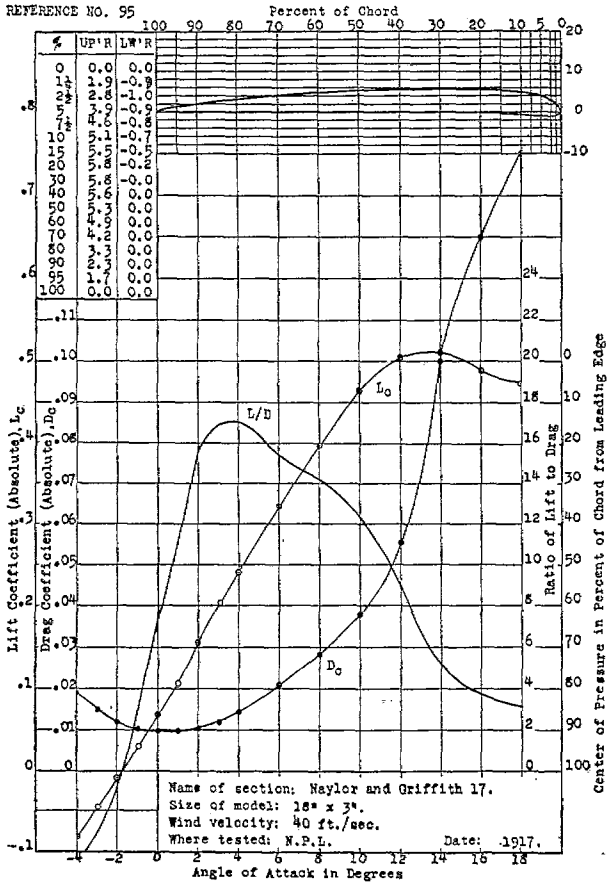

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | -0.5 |
| 2½ | 2.8 | -0.7 |
| 5 | 3.9 | -0.9 |
| 7½ | 4.6 | -1.0 |
| 10 | 5.1 | -0.9 |
| 15 | 5.5 | -0.6 |
| 20 | 5.8 | -0.4 |
| 30 | 5.8 | -0.1 |
| 40 | 5.6 | 0.0 |
| 50 | 5.3 | 0.0 |
| 60 | 4.9 | 0.0 |
| 70 | 4.2 | 0.0 |
| 80 | 3.3 | 0.0 |
| 90 | 2.3 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 94



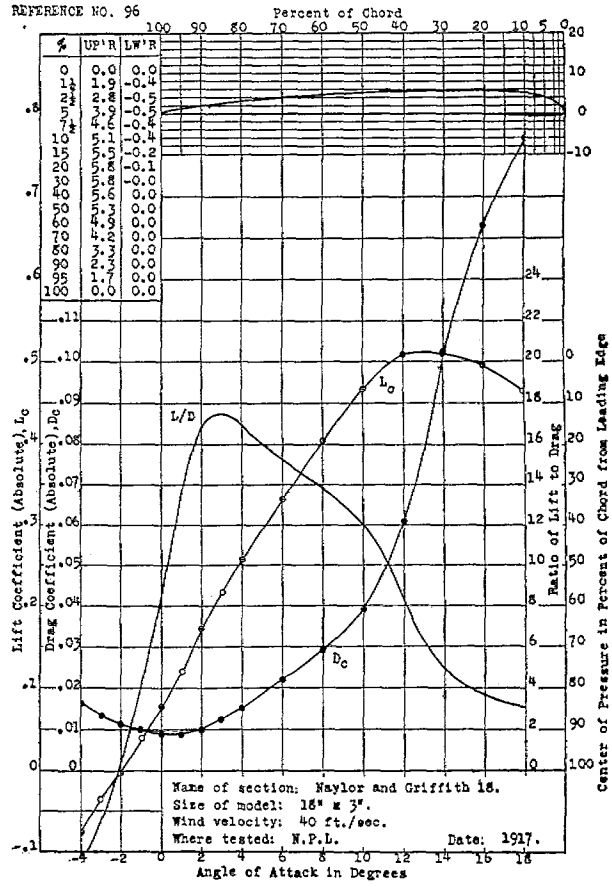

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | -1.3 |
| 2½ | 2.8 | -1.5 |
| 5 | 3.9 | -1.4 |
| 7½ | 4.6 | -1.2 |
| 10 | 5.1 | -1.1 |
| 15 | 5.5 | -0.7 |
| 20 | 5.8 | -0.3 |
| 30 | 5.8 | -0.1 |
| 40 | 5.6 | 0.0 |
| 50 | 5.3 | 0.0 |
| 60 | 4.9 | 0.0 |
| 70 | 4.2 | 0.0 |
| 80 | 3.3 | 0.0 |
| 90 | 2.3 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 95



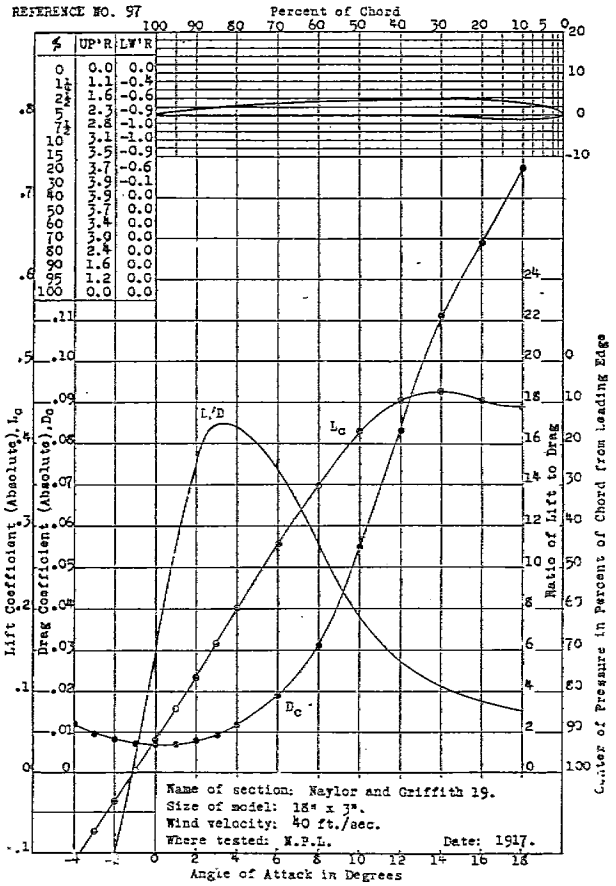

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | -0.9 |
| 2½ | 2.8 | -1.0 |
| 5 | 3.9 | -0.9 |
| 7½ | 4.6 | -0.8 |
| 10 | 5.1 | -0.7 |
| 15 | 5.5 | -0.5 |
| 20 | 5.8 | -0.2 |
| 30 | 5.8 | -0.0 |
| 40 | 5.6 | 0.0 |
| 50 | 5.3 | 0.0 |
| 60 | 4.9 | 0.0 |
| 70 | 4.2 | 0.0 |
| 80 | 3.3 | 0.0 |
| 90 | 2.3 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 96

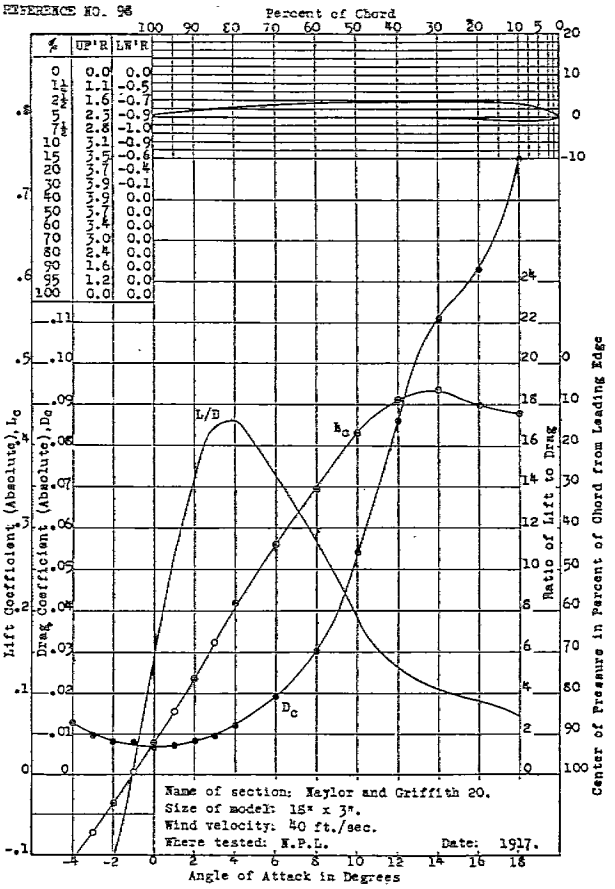



| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.9 | -0.4 |
| 2½ | 2.8 | -0.5 |
| 5 | 3.9 | -0.5 |
| 7½ | 4.6 | -0.4 |
| 10 | 5.1 | -0.4 |
| 15 | 5.5 | -0.2 |
| 20 | 5.8 | -0.1 |
| 30 | 5.8 | -0.0 |
| 40 | 5.6 | 0.0 |
| 50 | 5.3 | 0.0 |
| 60 | 4.9 | 0.0 |
| 70 | 4.2 | 0.0 |
| 80 | 3.3 | 0.0 |
| 90 | 2.3 | 0.0 |
| 95 | 1.7 | 0.0 |
| 100 | 0.0 | 0.0 |

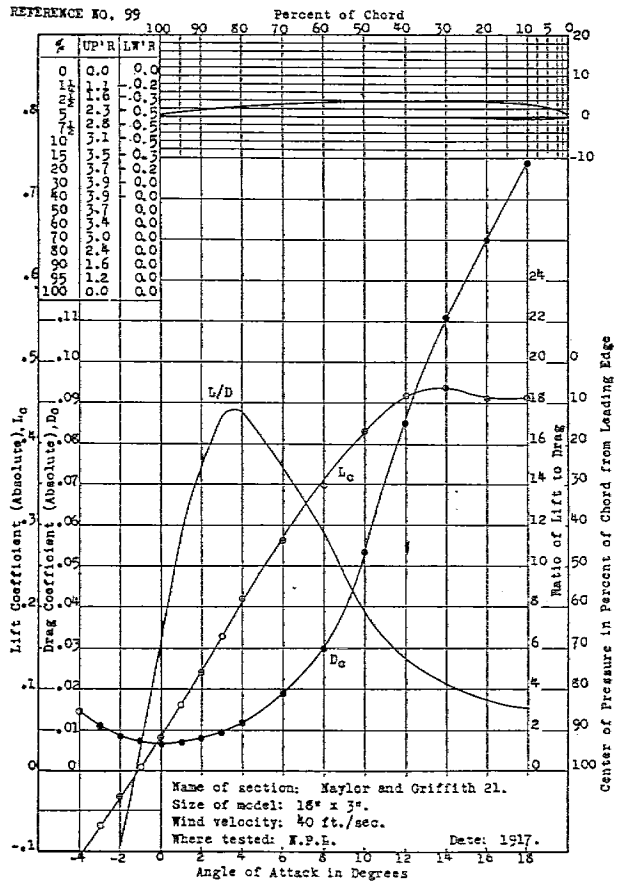
REFERENCE NO. 97



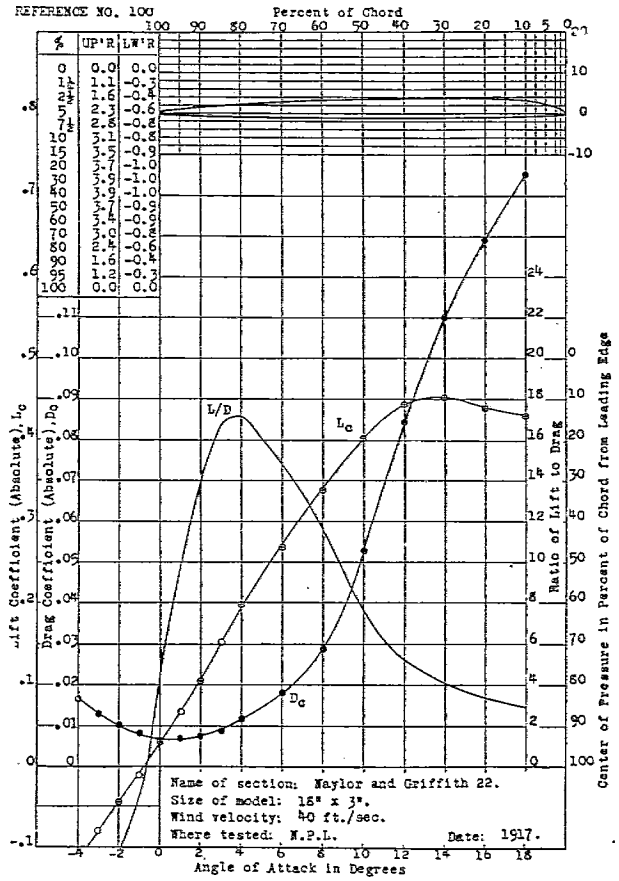

REFERENCE NO. 98



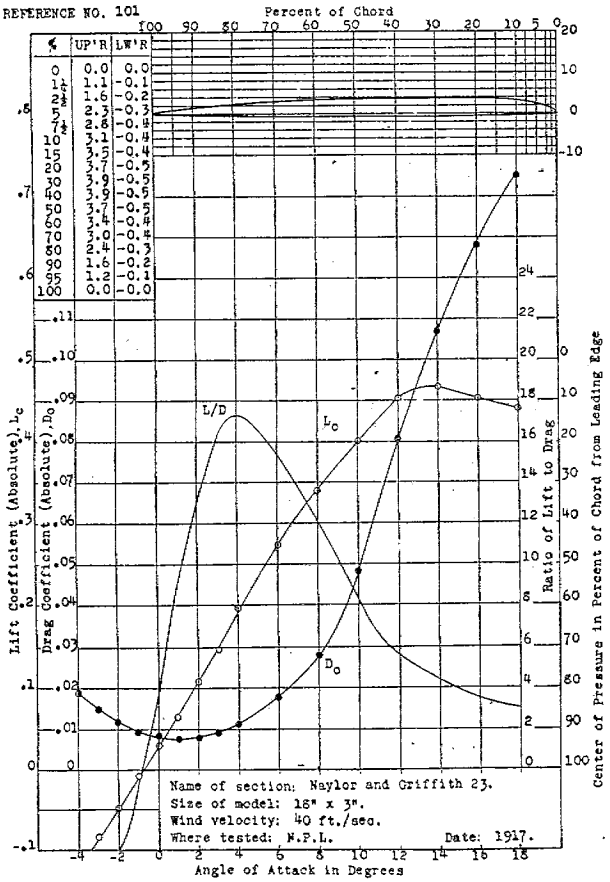

REFERENCE NO. 99




REFERENCE NO. 100

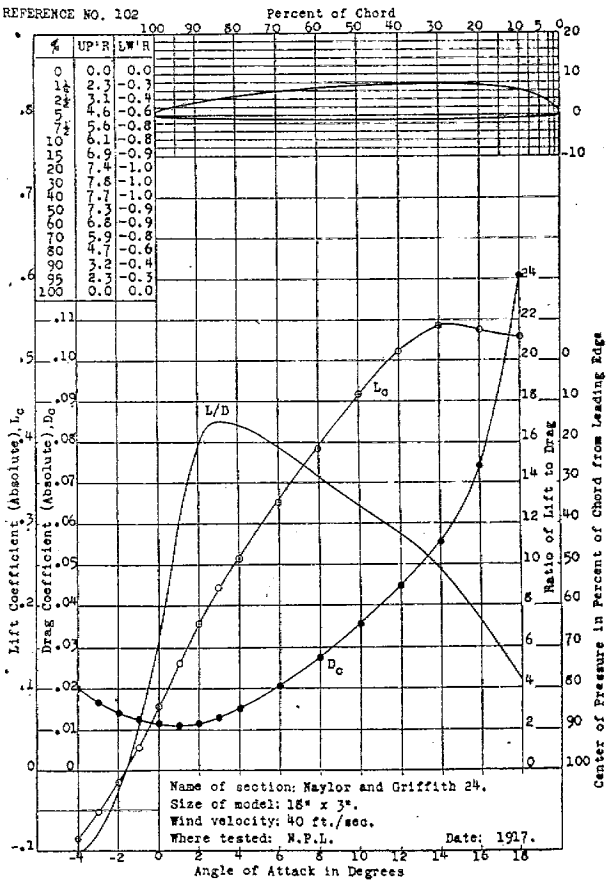


REFERENCE NO. 101



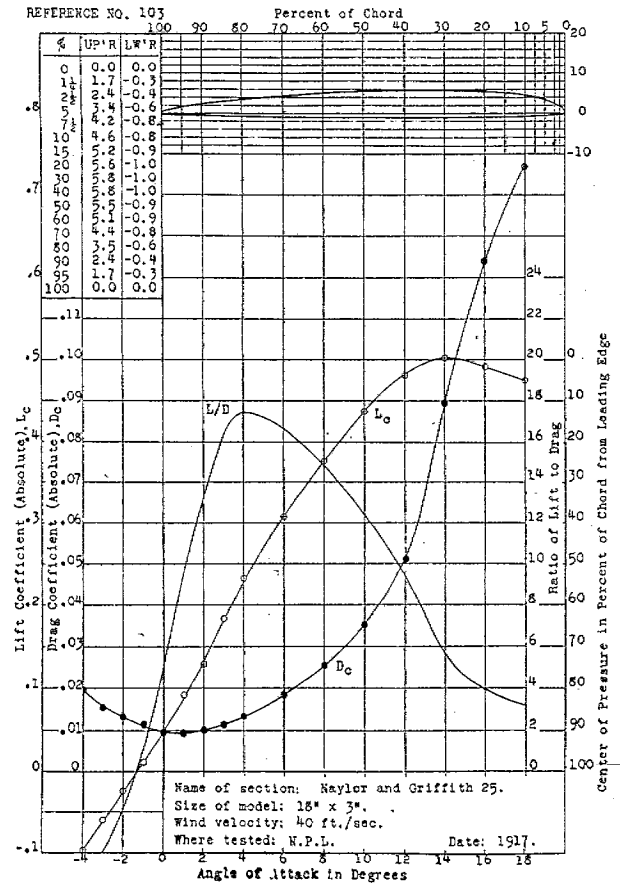

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.1 | -0.1 |
| 2½ | 1.6 | -0.2 |
| 5 | 2.3 | -0.3 |
| 7½ | 2.8 | -0.4 |
| 10 | 3.1 | -0.4 |
| 15 | 3.5 | -0.4 |
| 20 | 3.7 | -0.5 |
| 30 | 3.9 | -0.5 |
| 40 | 3.9 | -0.5 |
| 50 | 3.7 | -0.5 |
| 60 | 3.4 | -0.4 |
| 70 | 3.0 | -0.4 |
| 80 | 2.4 | -0.3 |
| 90 | 1.6 | -0.2 |
| 95 | 1.2 | -0.1 |
| 100 | 0.0 | -0.0 |

REFERENCE NO. 102



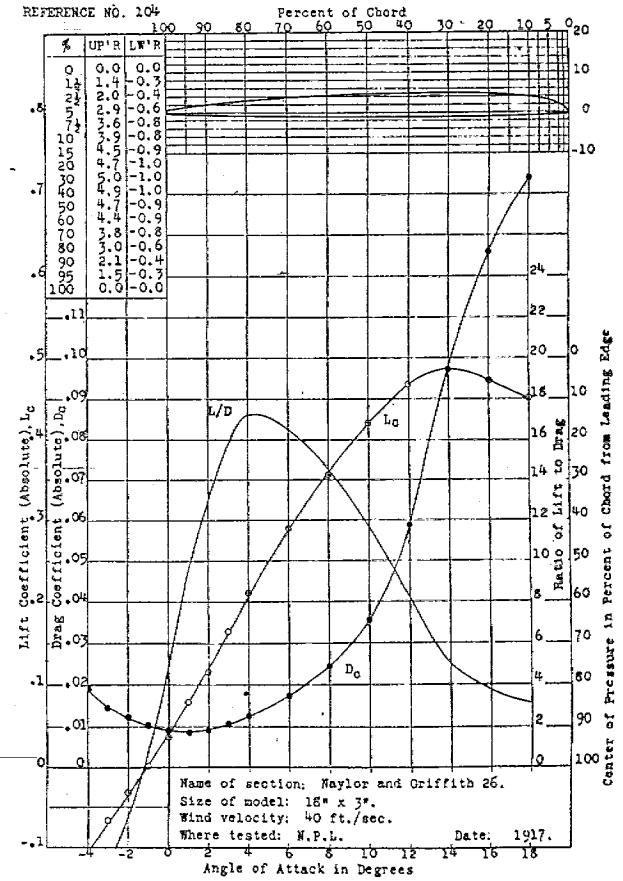

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.3 | -0.3 |
| 2½ | 3.1 | -0.4 |
| 5 | 4.6 | -0.6 |
| 7½ | 5.6 | -0.8 |
| 10 | 6.1 | -0.8 |
| 15 | 6.9 | -0.9 |
| 20 | 7.4 | -1.0 |
| 30 | 7.6 | -1.0 |
| 40 | 7.7 | -1.0 |
| 50 | 7.3 | -0.9 |
| 60 | 6.8 | -0.9 |
| 70 | 5.9 | -0.8 |
| 80 | 4.7 | -0.6 |
| 90 | 3.2 | -0.4 |
| 95 | 2.3 | -0.3 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 103



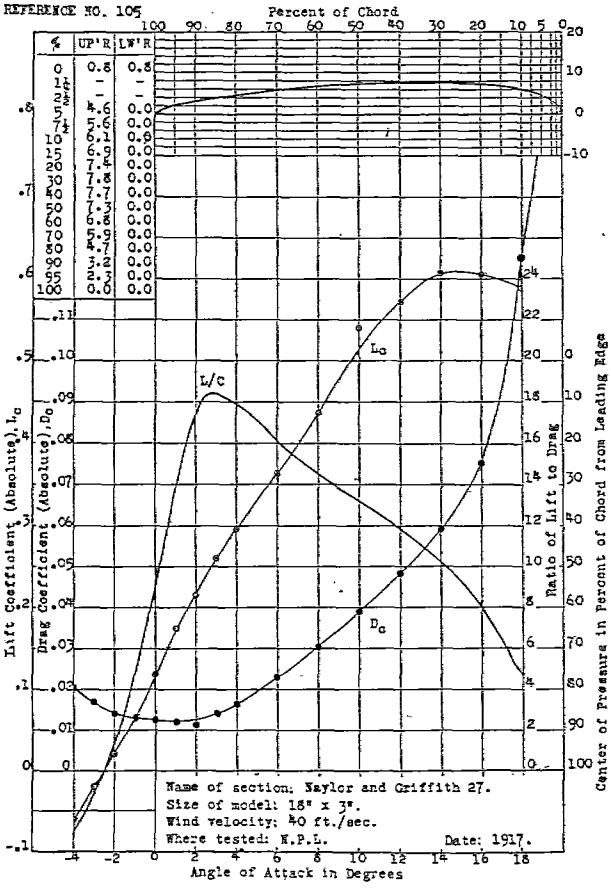

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.7 | -0.3 |
| 2½ | 2.4 | -0.4 |
| 5 | 3.4 | -0.6 |
| 7½ | 4.2 | -0.8 |
| 10 | 4.6 | -0.8 |
| 15 | 5.2 | -0.9 |
| 20 | 5.6 | -1.0 |
| 30 | 5.8 | -1.0 |
| 40 | 5.8 | -1.0 |
| 50 | 5.5 | -0.9 |
| 60 | 5.1 | -0.9 |
| 70 | 4.4 | -0.8 |
| 80 | 3.5 | -0.6 |
| 90 | 2.4 | -0.4 |
| 95 | 1.7 | -0.3 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 104



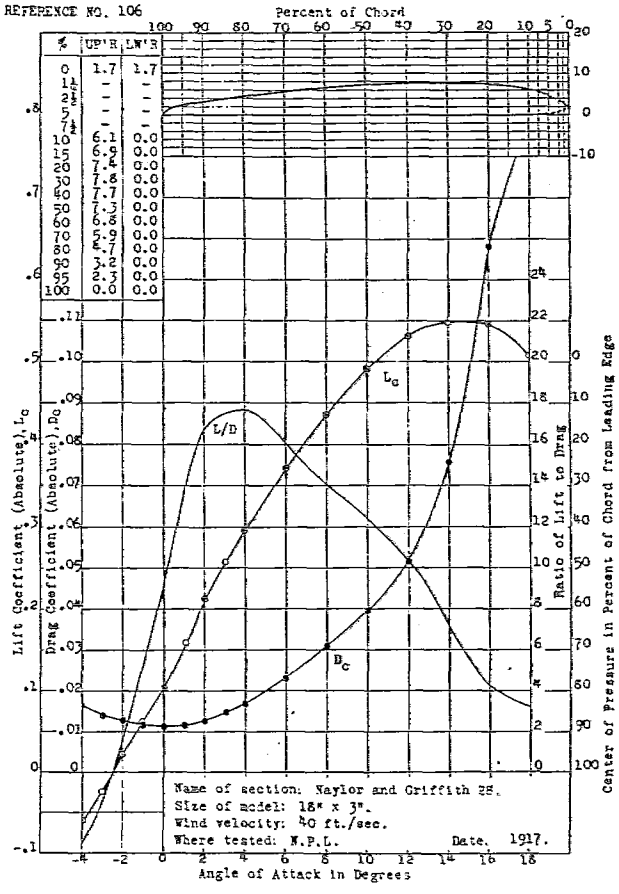

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.4 | -0.3 |
| 2½ | 2.0 | -0.4 |
| 5 | 2.9 | -0.6 |
| 7½ | 3.6 | -0.8 |
| 10 | 3.9 | -0.8 |
| 15 | 4.5 | -0.9 |
| 20 | 4.7 | -1.0 |
| 30 | 5.0 | -1.0 |
| 40 | 4.9 | -1.0 |
| 50 | 4.7 | -0.9 |
| 60 | 4.4 | -0.9 |
| 70 | 3.8 | -0.8 |
| 80 | 3.0 | -0.6 |
| 90 | 2.1 | -0.4 |
| 95 | 1.5 | -0.3 |
| 100 | 0.0 | -0.0 |

REFERENCE NO. 105



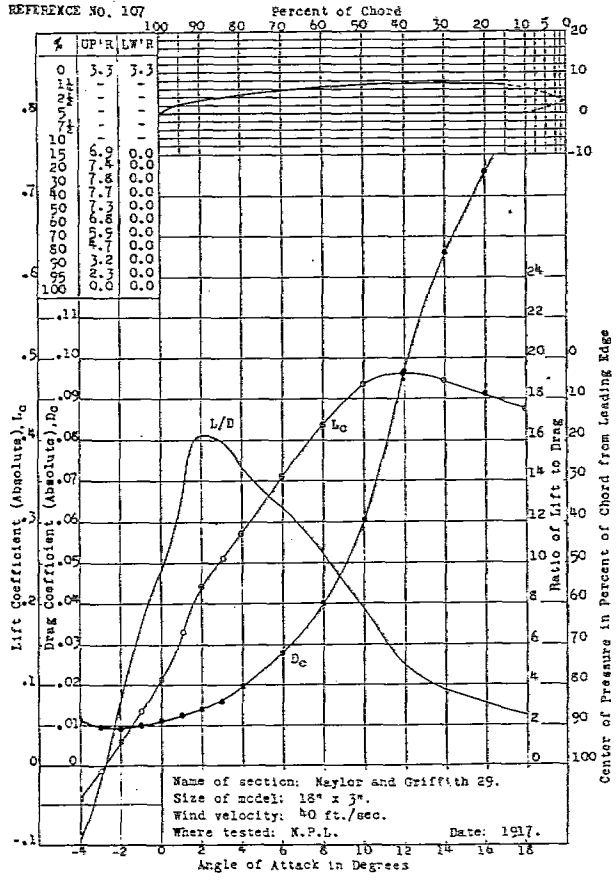

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.8 |
| 1¼ | - | - |
| 2½ | - | - |
| 5 | 4.6 | 0.0 |
| 7½ | 5.6 | 0.0 |
| 10 | 6.1 | 0.0 |
| 15 | 6.9 | 0.0 |
| 20 | 7.4 | 0.0 |
| 30 | 7.8 | 0.0 |
| 40 | 7.7 | 0.0 |
| 50 | 7.3 | 0.0 |
| 60 | 6.8 | 0.0 |
| 70 | 5.9 | 0.0 |
| 80 | 4.7 | 0.0 |
| 90 | 3.2 | 0.0 |
| 95 | 2.3 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 106



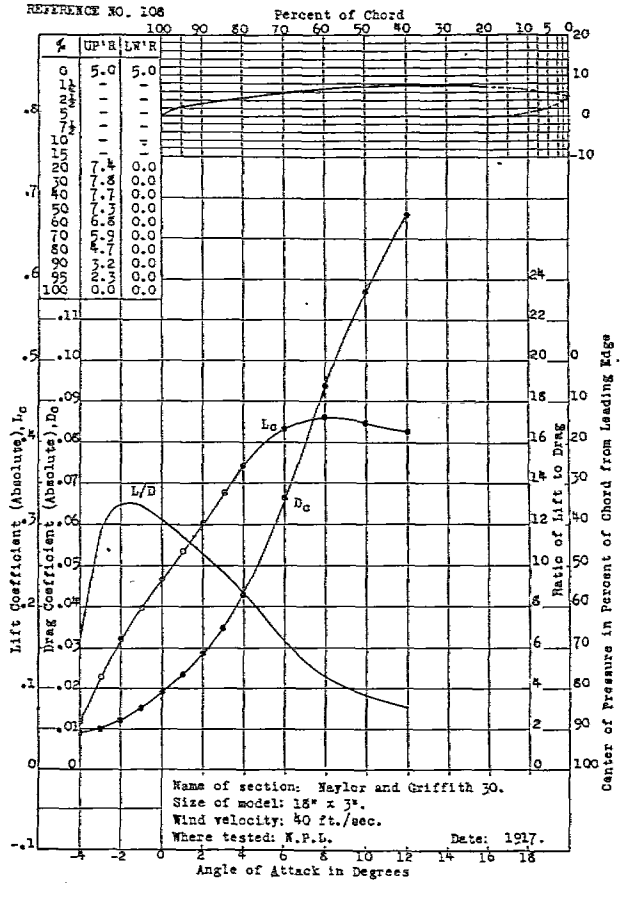

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.7 | 1.7 |
| 1¼ | - | - |
| 2½ | - | - |
| 5 | - | - |
| 7½ | - | - |
| 10 | 6.1 | 0.0 |
| 15 | 6.9 | 0.0 |
| 20 | 7.4 | 0.0 |
| 30 | 7.8 | 0.0 |
| 40 | 7.7 | 0.0 |
| 50 | 7.3 | 0.0 |
| 60 | 6.8 | 0.0 |
| 70 | 5.9 | 0.0 |
| 80 | 4.7 | 0.0 |
| 90 | 3.2 | 0.0 |
| 95 | 2.3 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 107




| % | UP'R | LW'R |
|---|---|---|
| 0 | 3.3 | 3.3 |
| 1¼ | - | - |
| 2½ | - | - |
| 5 | - | - |
| 7½ | - | - |
| 10 | - | - |
| 15 | 6.9 | 0.0 |
| 20 | 7.4 | 0.0 |
| 30 | 7.8 | 0.0 |
| 40 | 7.7 | 0.0 |
| 50 | 7.3 | 0.0 |
| 60 | 6.8 | 0.0 |
| 70 | 5.9 | 0.0 |
| 80 | 4.7 | 0.0 |
| 90 | 3.2 | 0.0 |
| 95 | 2.3 | 0.0 |
| 100 | 0.0 | 0.0 |

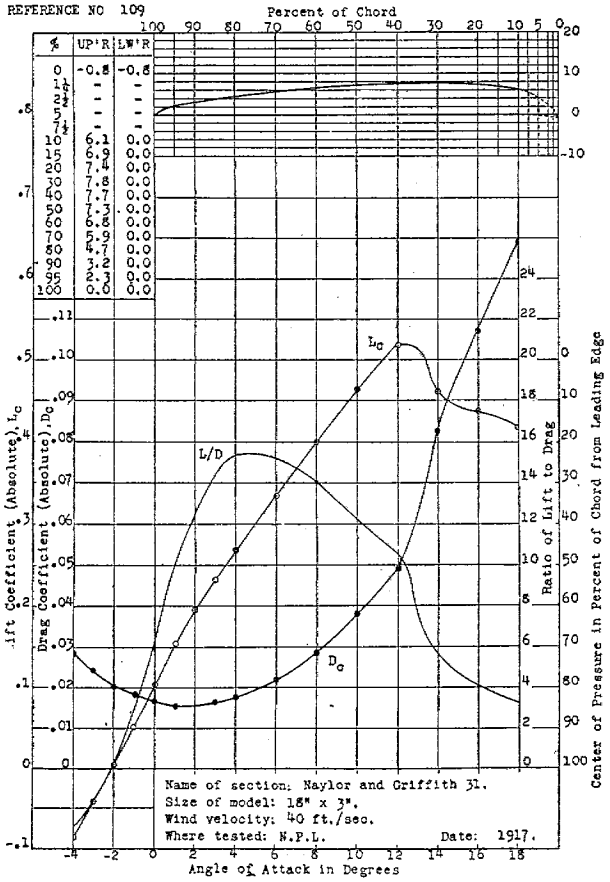
REFERENCE NO. 108




| % | UP'R | LW'R |
|---|---|---|
| 0 | 5.0 | 5.0 |
| 1¼ | - | - |
| 2½ | - | - |
| 5 | - | - |
| 7½ | - | - |
| 10 | - | - |
| 15 | - | - |
| 20 | 7.4 | 0.0 |
| 30 | 7.8 | 0.0 |
| 40 | 7.7 | 0.0 |
| 50 | 7.3 | 0.0 |
| 60 | 6.8 | 0.0 |
| 70 | 5.9 | 0.0 |
| 80 | 4.7 | 0.0 |
| 90 | 3.2 | 0.0 |
| 95 | 2.3 | 0.0 |
| 100 | 0.0 | 0.0 |

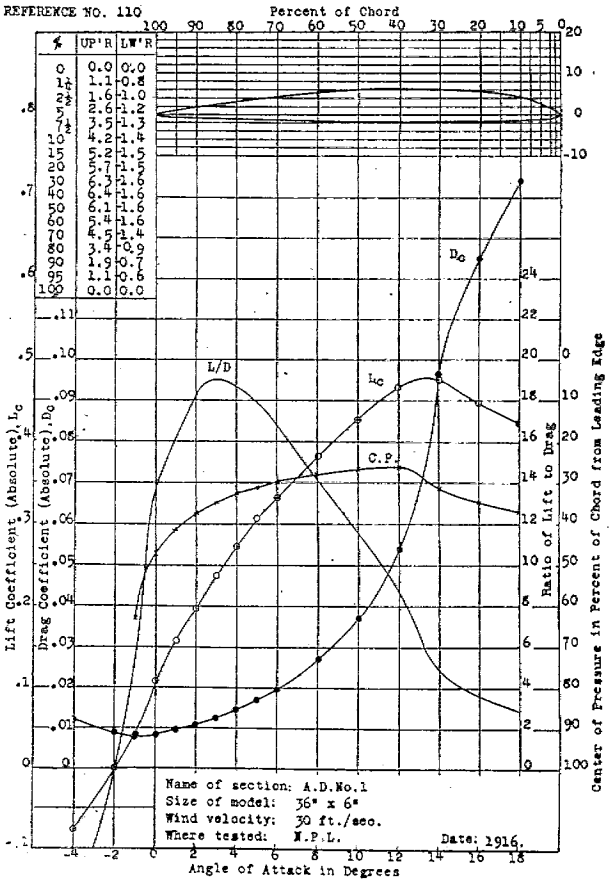
REFERENCE NO 109

| % | UP'R | LW'R |
|---|---|---|
| 0 | -0.8 | -0.8 |
| 1¼ | - | - |
| 2½ | - | - |
| 5 | - | - |
| 7½ | - | - |
| 10 | 6.1 | 0.0 |
| 15 | 6.9 | 0.0 |
| 20 | 7.4 | 0.0 |
| 30 | 7.8 | 0.0 |
| 40 | 7.7 | 0.0 |
| 50 | 7.3 | 0.0 |
| 60 | 6.8 | 0.0 |
| 70 | 5.9 | 0.0 |
| 80 | 4.7 | 0.0 |
| 90 | 3.2 | 0.0 |
| 95 | 2.3 | 0.0 |
| 100 | 0.0 | 0.0 |



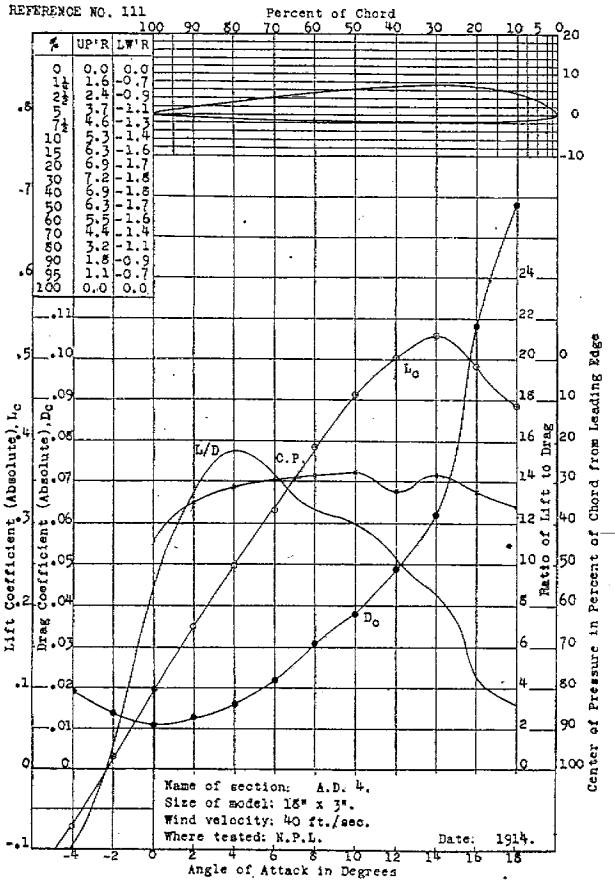

REFERENCE NO. 110

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.1 | 0.8 |
| 2½ | 1.6 | 1.0 |
| 5 | 2.6 | 1.2 |
| 7½ | 3.5 | 1.3 |
| 10 | 4.2 | 1.4 |
| 15 | 5.2 | 1.5 |
| 20 | 5.7 | 1.5 |
| 30 | 6.3 | 1.6 |
| 40 | 6.4 | 1.6 |
| 50 | 6.1 | 1.6 |
| 60 | 5.4 | 1.6 |
| 70 | 4.5 | 1.4 |
| 80 | 3.4 | 0.9 |
| 90 | 1.9 | 0.7 |
| 95 | 1.1 | 0.6 |
| 100 | 0.0 | 0.0 |



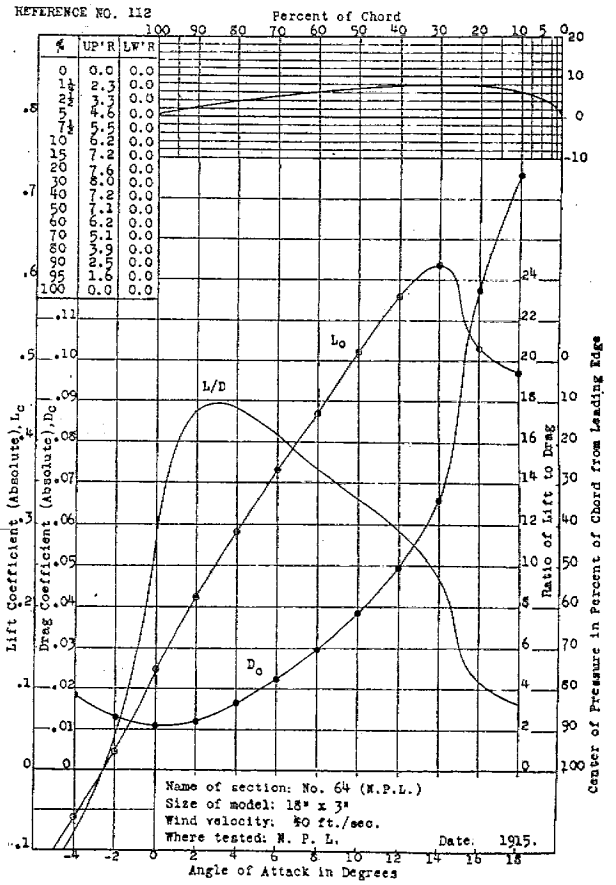

REFERENCE NO. 111

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.6 | -0.7 |
| 2½ | 2.4 | -0.9 |
| 5 | 3.7 | -1.1 |
| 7½ | 4.6 | -1.3 |
| 10 | 5.3 | -1.4 |
| 15 | 6.3 | -1.6 |
| 20 | 6.9 | -1.7 |
| 30 | 7.2 | -1.8 |
| 40 | 6.9 | -1.8 |
| 50 | 6.3 | -1.7 |
| 60 | 5.5 | -1.6 |
| 70 | 4.4 | -1.4 |
| 80 | 3.2 | -1.1 |
| 90 | 1.8 | -0.9 |
| 95 | 1.1 | -0.7 |
| 100 | 0.0 | 0.0 |

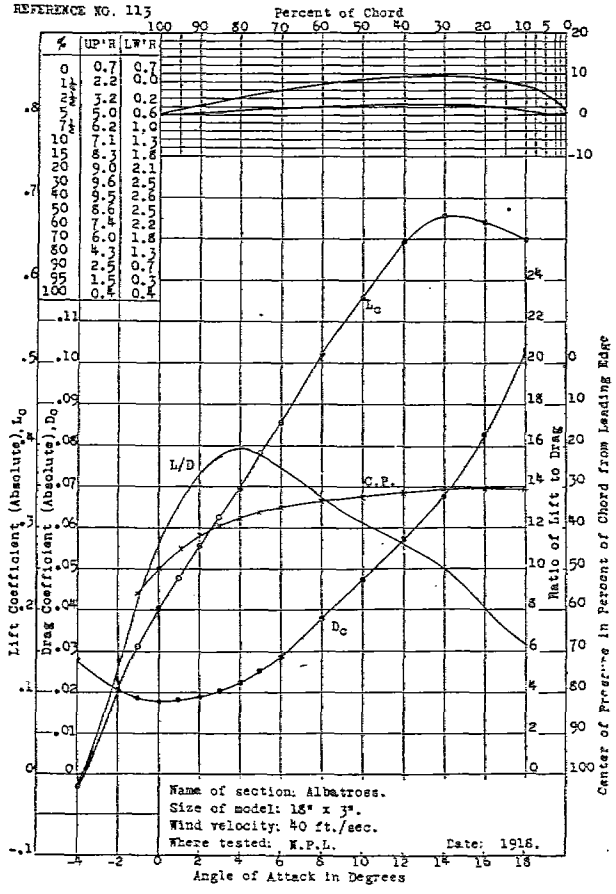



REFERENCE NO. 112

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.3 | 0.0 |
| 2½ | 3.3 | 0.0 |
| 5 | 4.6 | 0.0 |
| 7½ | 5.5 | 0.0 |
| 10 | 6.2 | 0.0 |
| 15 | 7.2 | 0.0 |
| 20 | 7.6 | 0.0 |
| 30 | 8.0 | 0.0 |
| 40 | 7.2 | 0.0 |
| 50 | 7.1 | 0.0 |
| 60 | 6.2 | 0.0 |
| 70 | 5.1 | 0.0 |
| 80 | 3.9 | 0.0 |
| 90 | 2.5 | 0.0 |
| 95 | 1.6 | 0.0 |
| 100 | 0.0 | 0.0 |

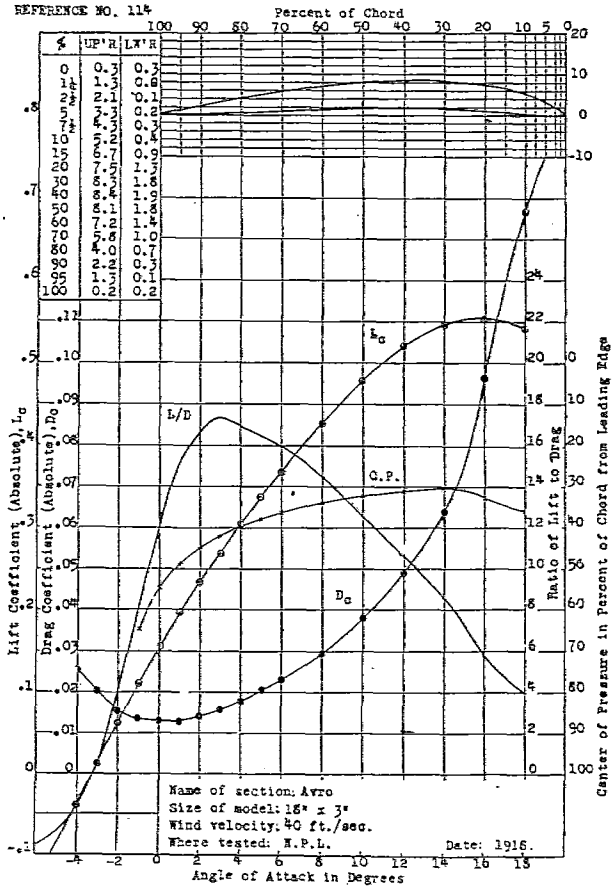


REFERENCE NO. 113



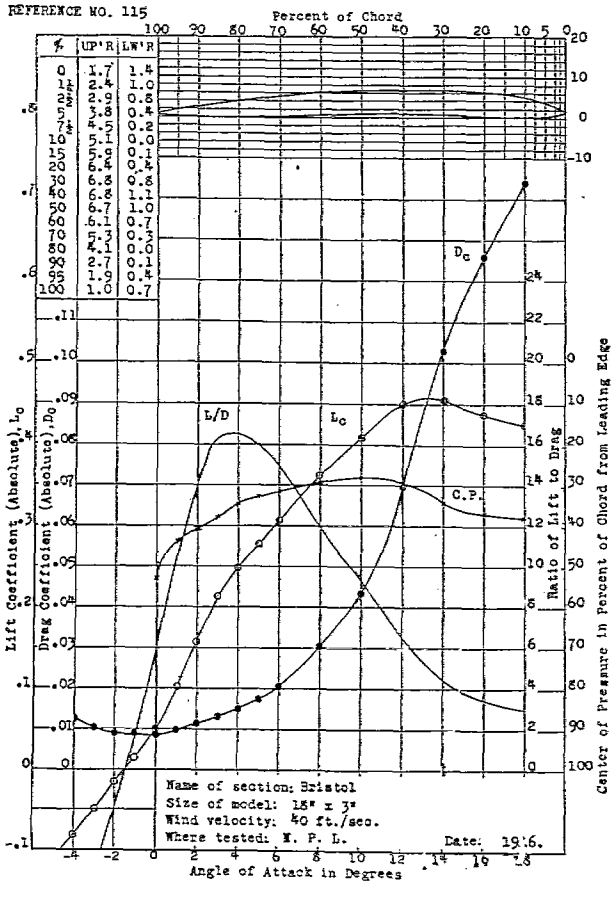

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 2.2 | 0.0 |
| 2½ | 3.2 | 0.2 |
| 5 | 5.0 | 0.6 |
| 7½ | 6.2 | 1.0 |
| 10 | 7.1 | 1.3 |
| 15 | 8.3 | 1.8 |
| 20 | 9.0 | 2.1 |
| 30 | 9.6 | 2.5 |
| 40 | 9.5 | 2.6 |
| 50 | 8.6 | 2.5 |
| 60 | 7.4 | 2.2 |
| 70 | 6.0 | 1.8 |
| 80 | 4.3 | 1.3 |
| 90 | 2.5 | 0.7 |
| 95 | 1.5 | 0.3 |
| 100 | 0.4 | 0.4 |

REFERENCE NO. 114



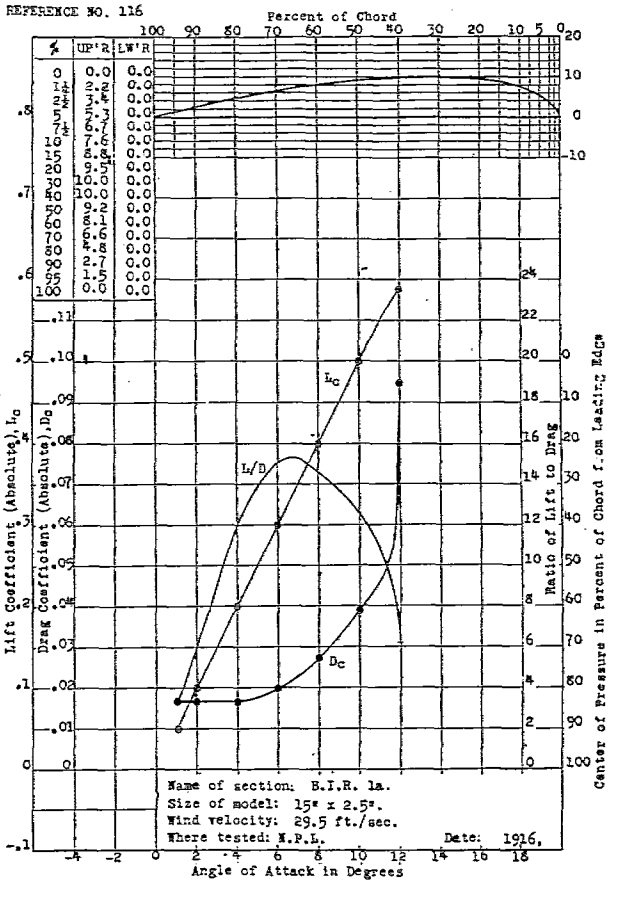

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.3 | 0.3 |
| 1¼ | 1.3 | 0.6 |
| 2½ | 2.1 | 0.1 |
| 5 | 3.3 | 0.2 |
| 7½ | 4.3 | 0.3 |
| 10 | 5.2 | 0.4 |
| 15 | 6.7 | 0.9 |
| 20 | 7.5 | 1.3 |
| 30 | 8.3 | 1.8 |
| 40 | 8.4 | 1.9 |
| 50 | 8.1 | 1.8 |
| 60 | 7.2 | 1.4 |
| 70 | 5.8 | 1.0 |
| 80 | 4.0 | 0.7 |
| 90 | 2.2 | 0.3 |
| 95 | 1.3 | 0.1 |
| 100 | 0.2 | 0.2 |

REFERENCE NO. 115



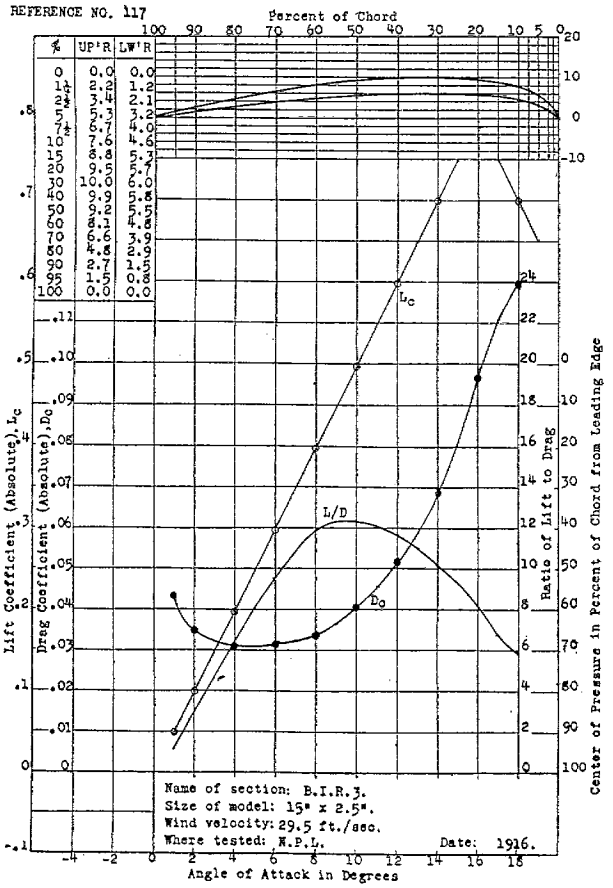

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.7 | 1.4 |
| 1¼ | 2.4 | 1.0 |
| 2½ | 2.9 | 0.8 |
| 5 | 3.8 | 0.4 |
| 7½ | 4.5 | 0.2 |
| 10 | 5.1 | 0.0 |
| 15 | 5.9 | 0.1 |
| 20 | 6.4 | 0.4 |
| 30 | 6.8 | 0.8 |
| 40 | 6.8 | 1.1 |
| 50 | 6.7 | 1.0 |
| 60 | 6.1 | 0.7 |
| 70 | 5.3 | 0.3 |
| 80 | 4.1 | 0.0 |
| 90 | 2.7 | 0.1 |
| 95 | 1.9 | 0.4 |
| 100 | 1.0 | 0.7 |

REFERENCE NO. 116



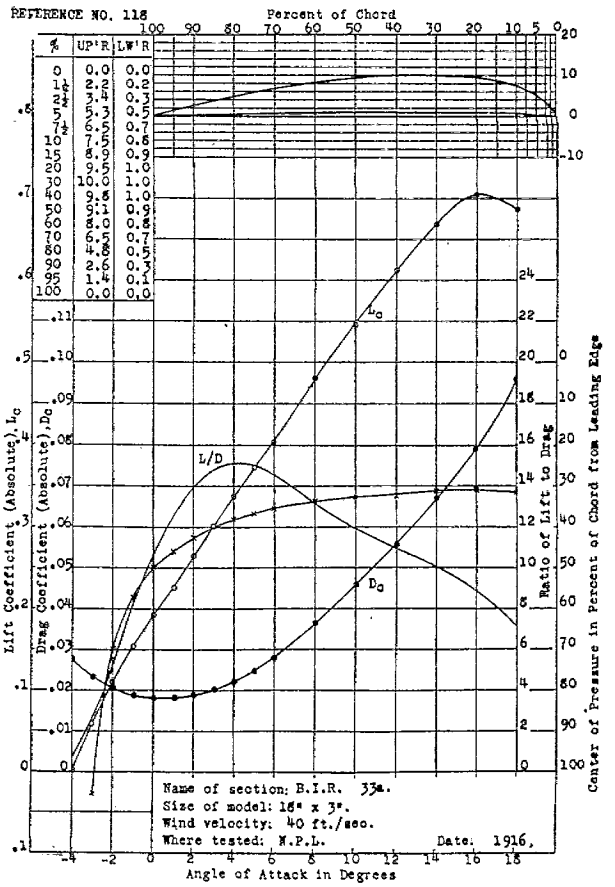

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.2 | 0.0 |
| 2½ | 3.4 | 0.0 |
| 5 | 5.3 | 0.0 |
| 7½ | 6.7 | 0.0 |
| 10 | 7.6 | 0.0 |
| 15 | 8.8 | 0.0 |
| 20 | 9.5 | 0.0 |
| 30 | 10.0 | 0.0 |
| 40 | 10.0 | 0.0 |
| 50 | 9.2 | 0.0 |
| 60 | 8.1 | 0.0 |
| 70 | 6.6 | 0.0 |
| 80 | 4.8 | 0.0 |
| 90 | 2.7 | 0.0 |
| 95 | 1.5 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 117



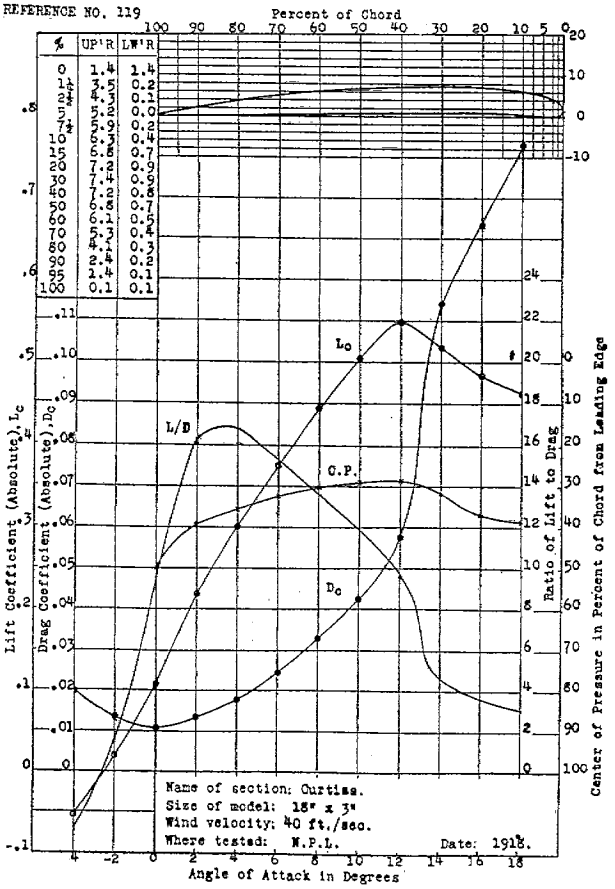

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.2 | 1.2 |
| 2½ | 3.4 | 2.1 |
| 5 | 5.3 | 3.2 |
| 7½ | 6.7 | 4.0 |
| 10 | 7.6 | 4.6 |
| 15 | 8.8 | 5.3 |
| 20 | 9.5 | 5.7 |
| 30 | 10.0 | 6.0 |
| 40 | 9.9 | 5.8 |
| 50 | 9.2 | 5.5 |
| 60 | 8.1 | 4.8 |
| 70 | 6.6 | 3.9 |
| 80 | 4.8 | 2.9 |
| 90 | 2.7 | 1.5 |
| 95 | 1.5 | 0.8 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 118



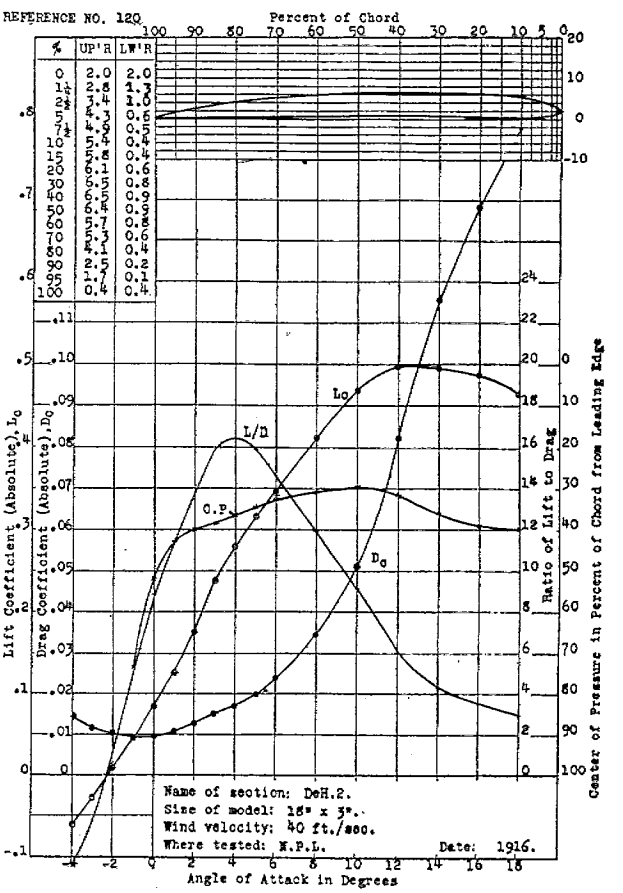

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.2 | 0.2 |
| 2½ | 3.4 | 0.3 |
| 5 | 5.3 | 0.5 |
| 7½ | 6.5 | 0.7 |
| 10 | 7.5 | 0.8 |
| 15 | 8.9 | 0.9 |
| 20 | 9.5 | 1.0 |
| 30 | 10.0 | 1.0 |
| 40 | 9.8 | 1.0 |
| 50 | 9.1 | 0.9 |
| 60 | 8.0 | 0.8 |
| 70 | 6.5 | 0.7 |
| 80 | 4.8 | 0.5 |
| 90 | 2.6 | 0.3 |
| 95 | 1.4 | 0.1 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 119



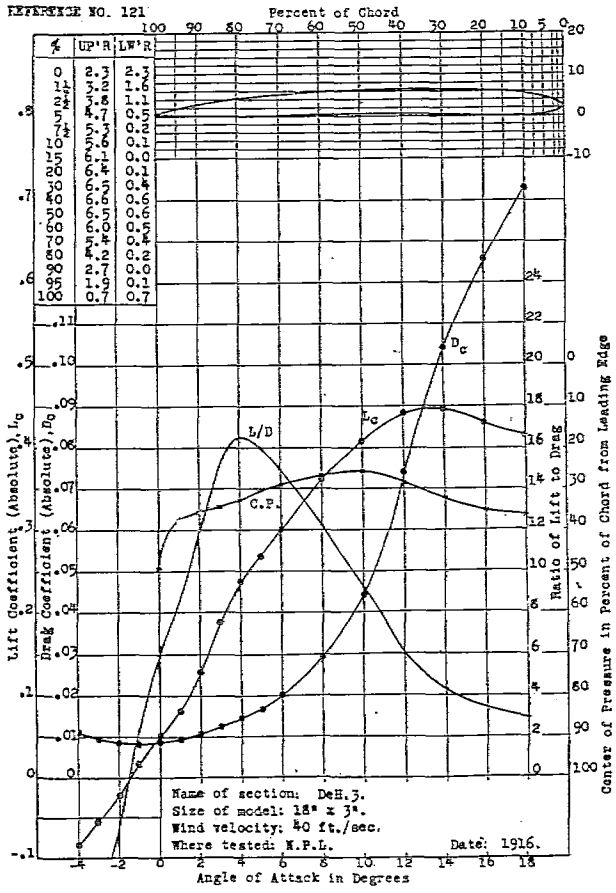

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.4 | 1.4 |
| 1¼ | 3.5 | 0.2 |
| 2½ | 4.3 | 0.1 |
| 5 | 5.2 | 0.0 |
| 7½ | 5.9 | 0.2 |
| 10 | 6.3 | 0.4 |
| 15 | 6.8 | 0.7 |
| 20 | 7.2 | 0.9 |
| 30 | 7.4 | 0.9 |
| 40 | 7.2 | 0.8 |
| 50 | 6.8 | 0.7 |
| 60 | 6.1 | 0.5 |
| 70 | 5.3 | 0.4 |
| 80 | 4.1 | 0.3 |
| 90 | 2.4 | 0.2 |
| 95 | 1.4 | 0.1 |
| 100 | 0.1 | 0.1 |

REFERENCE NO. 120



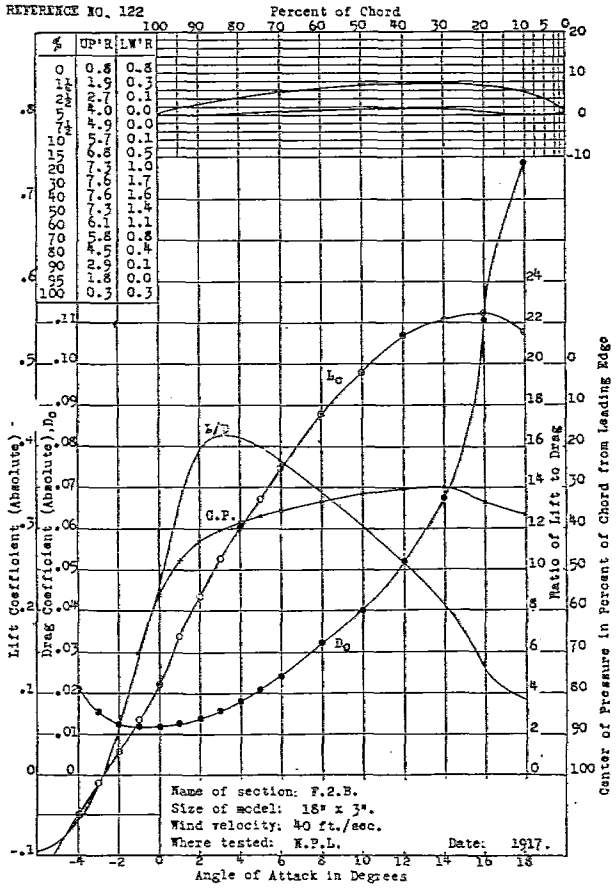

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.0 | 2.0 |
| 1¼ | 2.8 | 1.3 |
| 2½ | 3.4 | 1.0 |
| 5 | 4.3 | 0.6 |
| 7½ | 4.9 | 0.5 |
| 10 | 5.4 | 0.4 |
| 15 | 5.8 | 0.4 |
| 20 | 6.1 | 0.6 |
| 30 | 6.5 | 0.8 |
| 40 | 6.5 | 0.9 |
| 50 | 6.4 | 0.9 |
| 60 | 5.7 | 0.8 |
| 70 | 5.3 | 0.6 |
| 80 | 4.1 | 0.4 |
| 90 | 2.5 | 0.2 |
| 95 | 1.7 | 0.1 |
| 100 | 0.4 | 0.4 |

REFERENCE NO. 121



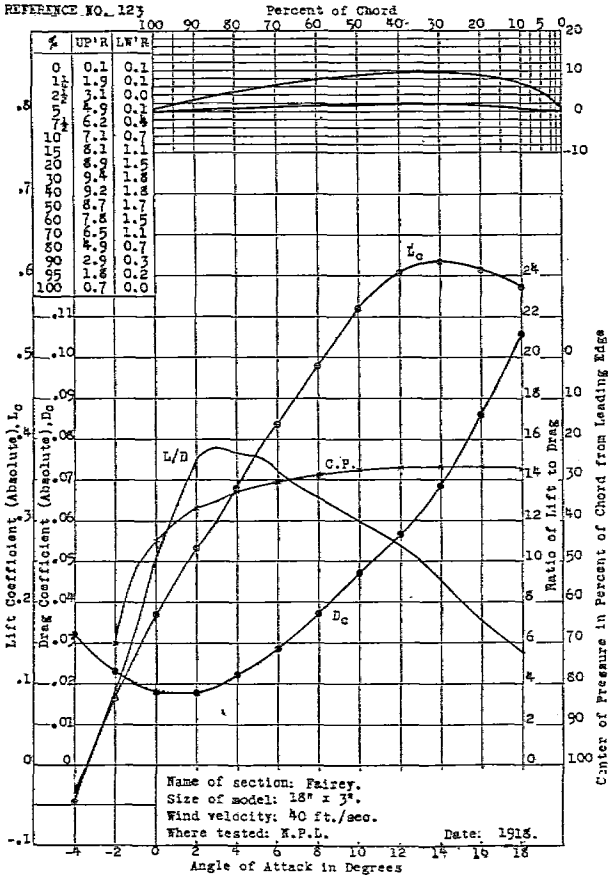

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.3 | 2.3 |
| 1¼ | 3.2 | 1.6 |
| 2½ | 3.8 | 1.1 |
| 5 | 4.7 | 0.5 |
| 7½ | 5.3 | 0.2 |
| 10 | 5.6 | 0.1 |
| 15 | 6.1 | 0.0 |
| 20 | 6.4 | 0.1 |
| 30 | 6.5 | 0.4 |
| 40 | 6.6 | 0.6 |
| 50 | 6.5 | 0.6 |
| 60 | 6.0 | 0.5 |
| 70 | 5.4 | 0.4 |
| 80 | 4.2 | 0.2 |
| 90 | 2.7 | 0.0 |
| 95 | 1.9 | 0.1 |
| 100 | 0.7 | 0.7 |

REFERENCE NO. 122



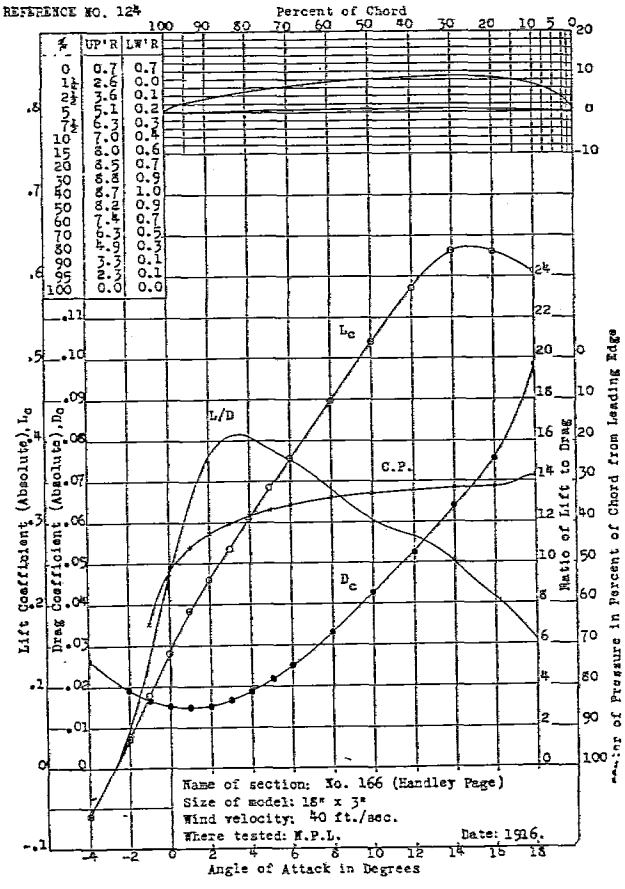

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.8 |
| 1¼ | 1.9 | 0.3 |
| 2½ | 2.7 | 0.1 |
| 5 | 4.0 | 0.0 |
| 7½ | 4.9 | 0.0 |
| 10 | 5.7 | 0.1 |
| 15 | 6.8 | 0.5 |
| 20 | 7.3 | 1.0 |
| 30 | 7.6 | 1.7 |
| 40 | 7.6 | 1.6 |
| 50 | 7.3 | 1.4 |
| 60 | 6.1 | 1.1 |
| 70 | 5.8 | 0.8 |
| 80 | 4.5 | 0.4 |
| 90 | 2.9 | 0.1 |
| 95 | 1.8 | 0.0 |
| 100 | 0.3 | 0.3 |

REFERENCE NO. 123



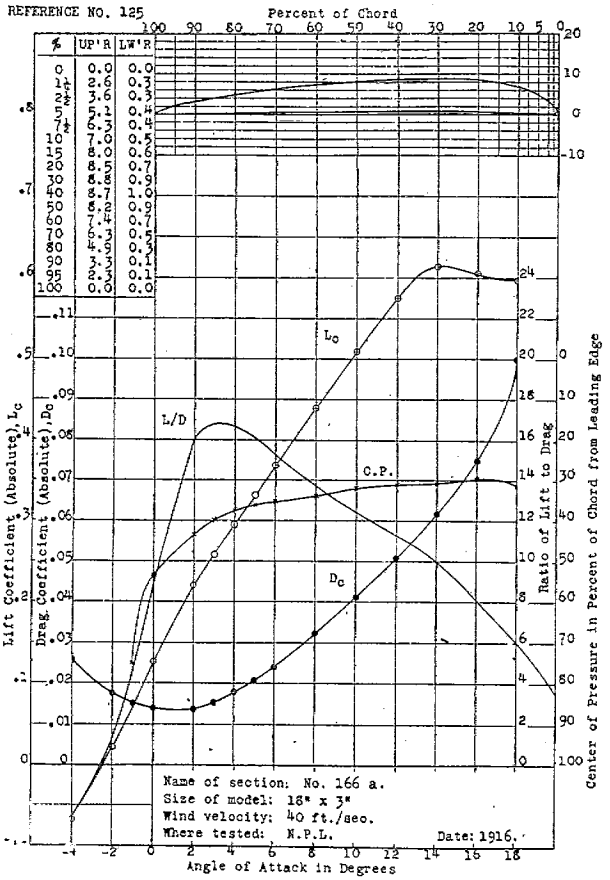

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.1 | 0.1 |
| 1¼ | 1.9 | 0.1 |
| 2½ | 3.1 | 0.0 |
| 5 | 4.9 | 0.1 |
| 7½ | 6.2 | 0.4 |
| 10 | 7.1 | 0.7 |
| 15 | 8.1 | 1.1 |
| 20 | 8.9 | 1.5 |
| 30 | 9.4 | 1.8 |
| 40 | 9.2 | 1.8 |
| 50 | 8.7 | 1.7 |
| 60 | 7.8 | 1.5 |
| 70 | 6.5 | 1.1 |
| 80 | 4.9 | 0.7 |
| 90 | 2.9 | 0.3 |
| 95 | 1.8 | 0.2 |
| 100 | 0.7 | 0.0 |

REFERENCE NO. 124



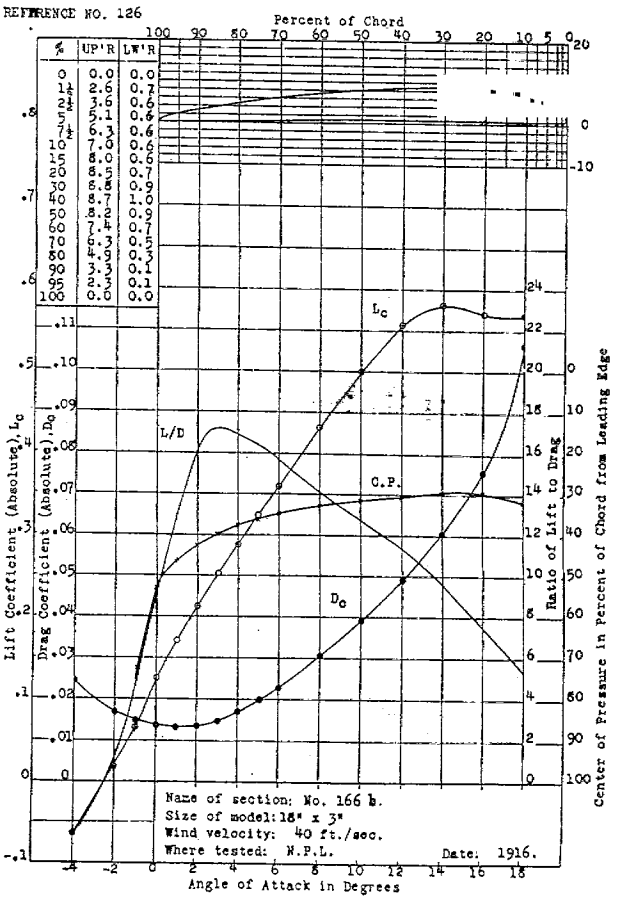

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 2.6 | 0.0 |
| 2½ | 3.6 | 0.1 |
| 5 | 5.1 | 0.2 |
| 7½ | 6.3 | 0.3 |
| 10 | 7.0 | 0.4 |
| 15 | 8.0 | 0.6 |
| 20 | 8.5 | 0.7 |
| 30 | 8.8 | 0.9 |
| 40 | 8.7 | 1.0 |
| 50 | 8.2 | 0.9 |
| 60 | 7.4 | 0.7 |
| 70 | 6.3 | 0.5 |
| 80 | 4.9 | 0.3 |
| 90 | 3.3 | 0.1 |
| 95 | 2.3 | 0.1 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 125



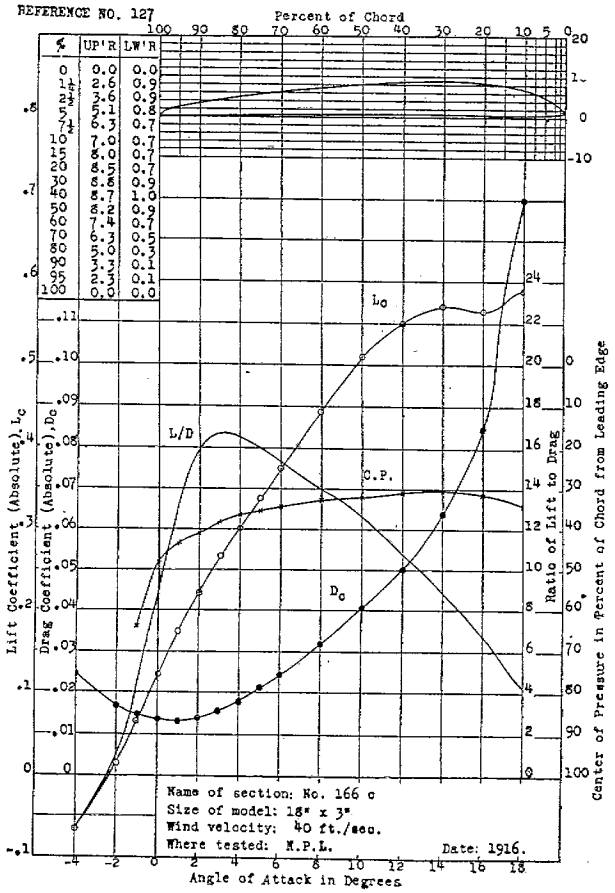

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.6 | 0.3 |
| 2½ | 3.6 | 0.3 |
| 5 | 5.1 | 0.4 |
| 7½ | 6.3 | 0.4 |
| 10 | 7.0 | 0.5 |
| 15 | 8.0 | 0.6 |
| 20 | 8.5 | 0.7 |
| 30 | 8.8 | 0.9 |
| 40 | 8.7 | 1.0 |
| 50 | 8.2 | 0.9 |
| 60 | 7.4 | 0.7 |
| 70 | 6.3 | 0.5 |
| 80 | 4.9 | 0.3 |
| 90 | 3.3 | 0.1 |
| 95 | 2.3 | 0.1 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 126



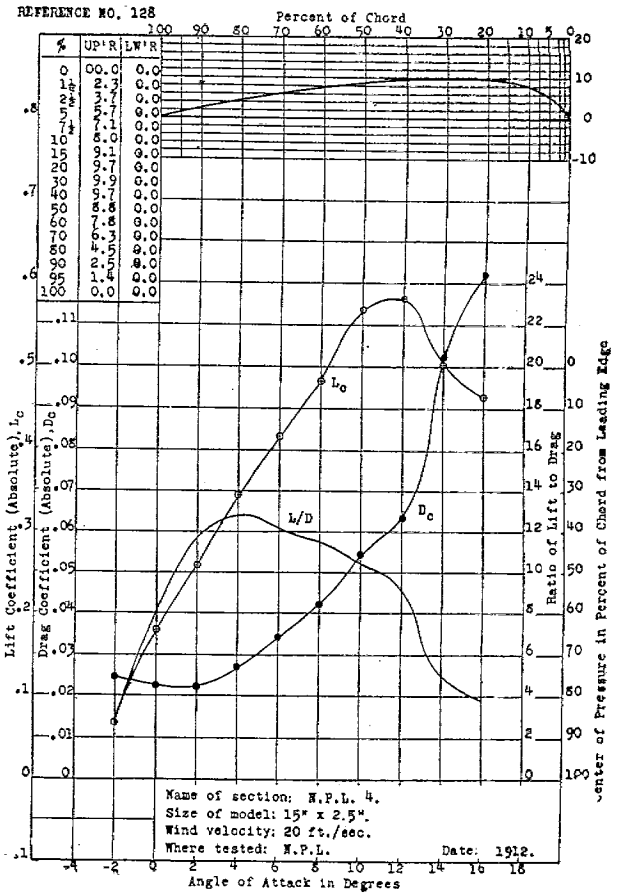

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.6 | 0.7 |
| 2½ | 3.6 | 0.6 |
| 5 | 5.1 | 0.6 |
| 7½ | 6.3 | 0.6 |
| 10 | 7.0 | 0.6 |
| 15 | 8.0 | 0.6 |
| 20 | 8.5 | 0.7 |
| 30 | 8.8 | 0.9 |
| 40 | 8.7 | 1.0 |
| 50 | 8.2 | 0.9 |
| 60 | 7.4 | 0.7 |
| 70 | 6.3 | 0.5 |
| 80 | 4.9 | 0.3 |
| 90 | 3.3 | 0.1 |
| 95 | 2.3 | 0.1 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 127



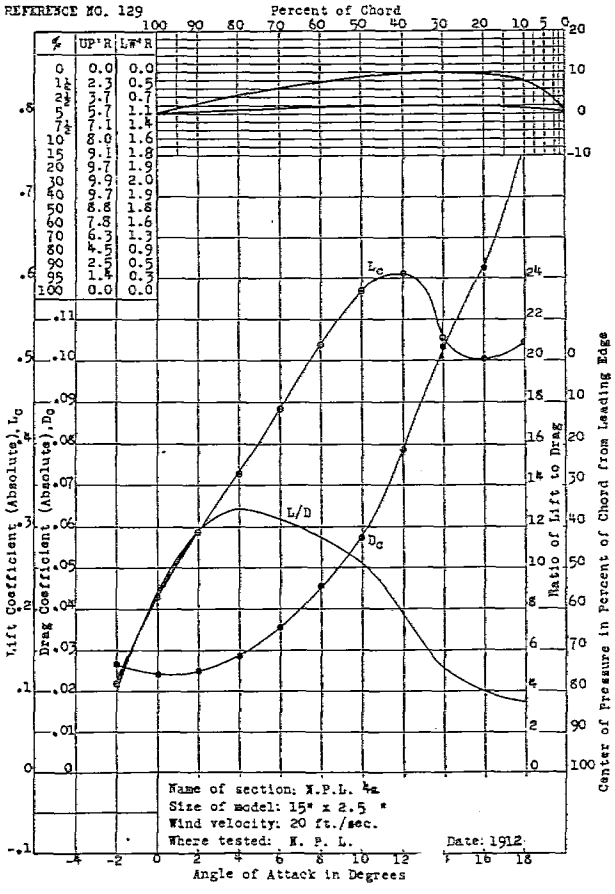

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.6 | 0.5 |
| 2½ | 3.6 | 0.5 |
| 5 | 5.1 | 0.6 |
| 7½ | 6.3 | 0.7 |
| 10 | 7.0 | 0.7 |
| 15 | 8.0 | 0.7 |
| 20 | 8.5 | 0.7 |
| 30 | 8.8 | 0.9 |
| 40 | 8.7 | 1.0 |
| 50 | 8.2 | 0.9 |
| 60 | 7.4 | 0.7 |
| 70 | 6.3 | 0.5 |
| 80 | 5.0 | 0.3 |
| 90 | 3.3 | 0.1 |
| 95 | 2.3 | 0.1 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 128



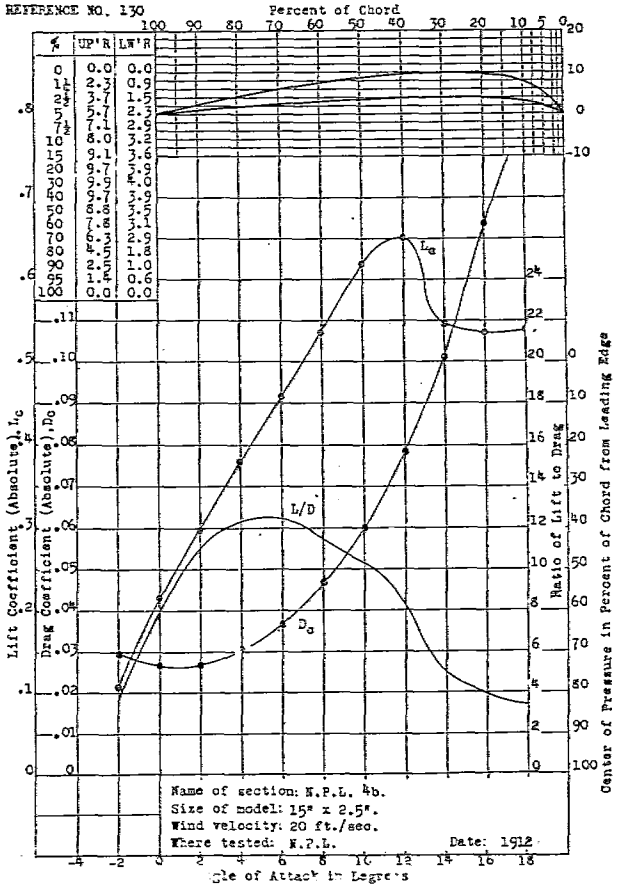

| % | UP'R | LW'R |
|---|---|---|
| 0 | 00.0 | 0.0 |
| 1¼ | 2.3 | 0.0 |
| 2½ | 3.1 | 0.0 |
| 5 | 5.1 | 0.0 |
| 7½ | 6.1 | 0.0 |
| 10 | 8.0 | 0.0 |
| 15 | 9.1 | 0.0 |
| 20 | 9.7 | 0.0 |
| 30 | 9.9 | 0.0 |
| 40 | 9.7 | 0.0 |
| 50 | 8.8 | 0.0 |
| 60 | 7.8 | 0.0 |
| 70 | 6.3 | 0.0 |
| 80 | 4.5 | 0.0 |
| 90 | 2.5 | 0.0 |
| 95 | 1.4 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 129



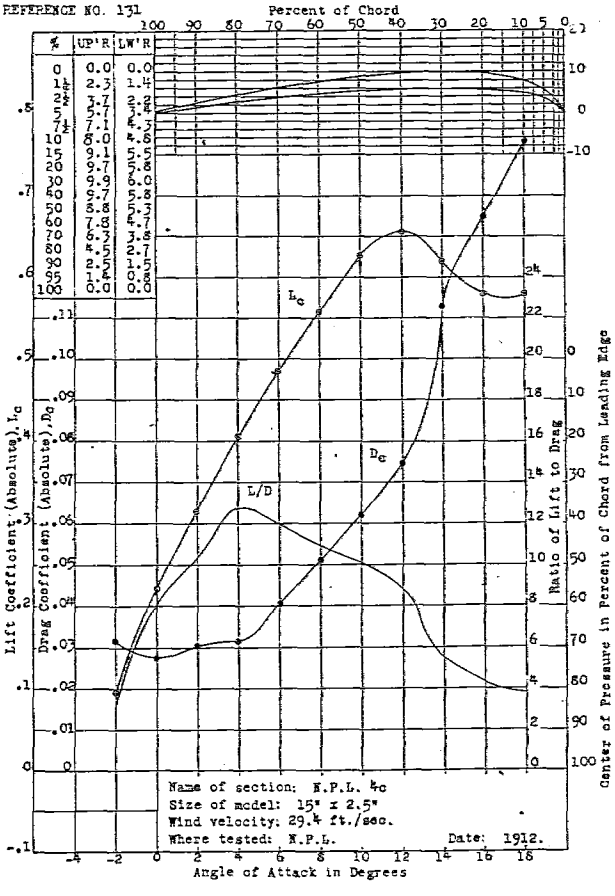

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.3 | 0.5 |
| 2½ | 3.7 | 0.7 |
| 5 | 5.7 | 1.1 |
| 7½ | 7.1 | 1.4 |
| 10 | 8.0 | 1.6 |
| 15 | 9.1 | 1.8 |
| 20 | 9.7 | 1.9 |
| 30 | 9.9 | 2.0 |
| 40 | 9.7 | 1.9 |
| 50 | 8.8 | 1.8 |
| 60 | 7.8 | 1.6 |
| 70 | 6.3 | 1.3 |
| 80 | 4.5 | 0.9 |
| 90 | 2.5 | 0.5 |
| 95 | 1.4 | 0.3 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 130



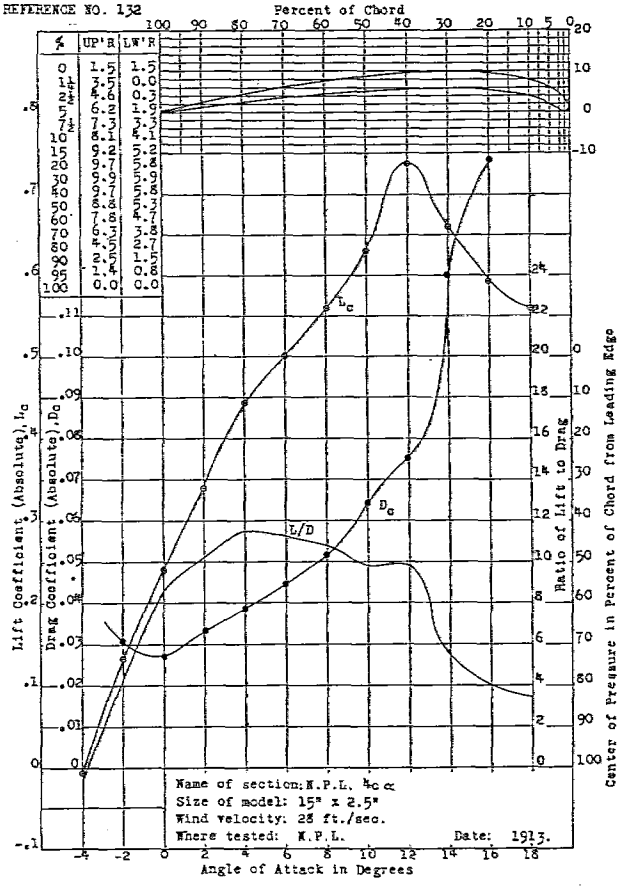

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.3 | 0.9 |
| 2½ | 3.7 | 1.5 |
| 5 | 5.7 | 2.3 |
| 7½ | 7.1 | 2.9 |
| 10 | 8.0 | 3.2 |
| 15 | 9.1 | 3.6 |
| 20 | 9.7 | 3.9 |
| 30 | 9.9 | 4.0 |
| 40 | 9.7 | 3.9 |
| 50 | 8.8 | 3.5 |
| 60 | 7.8 | 3.1 |
| 70 | 6.3 | 2.9 |
| 80 | 4.5 | 1.8 |
| 90 | 2.5 | 1.0 |
| 95 | 1.4 | 0.6 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 131



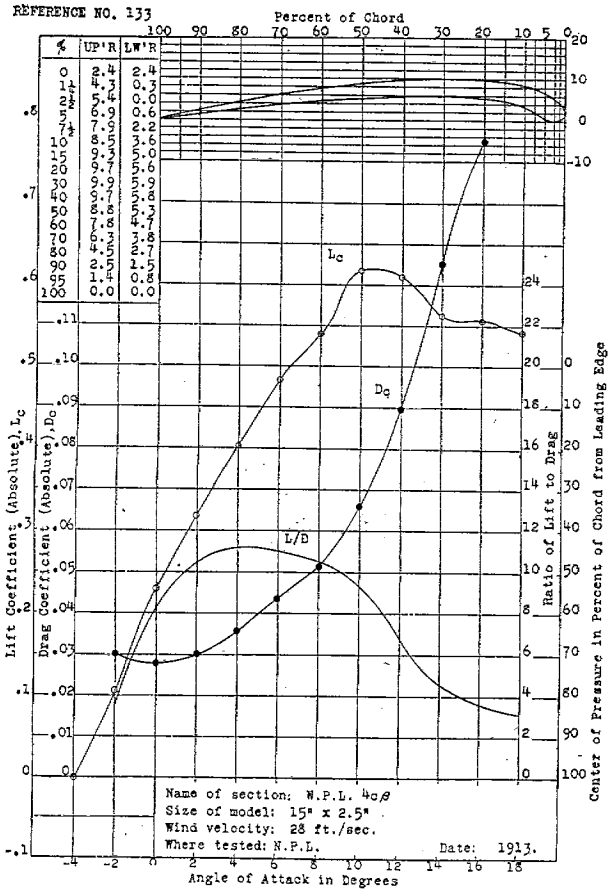

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.3 | 1.4 |
| 2½ | 3.7 | 2.2 |
| 5 | 5.7 | 3.4 |
| 7½ | 7.1 | 4.3 |
| 10 | 8.0 | 4.8 |
| 15 | 9.1 | 5.5 |
| 20 | 9.7 | 5.8 |
| 30 | 9.9 | 6.0 |
| 40 | 9.7 | 5.8 |
| 50 | 8.8 | 5.3 |
| 60 | 7.8 | 4.7 |
| 70 | 6.3 | 3.8 |
| 80 | 4.5 | 2.7 |
| 90 | 2.5 | 1.5 |
| 95 | 1.4 | 0.8 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 132



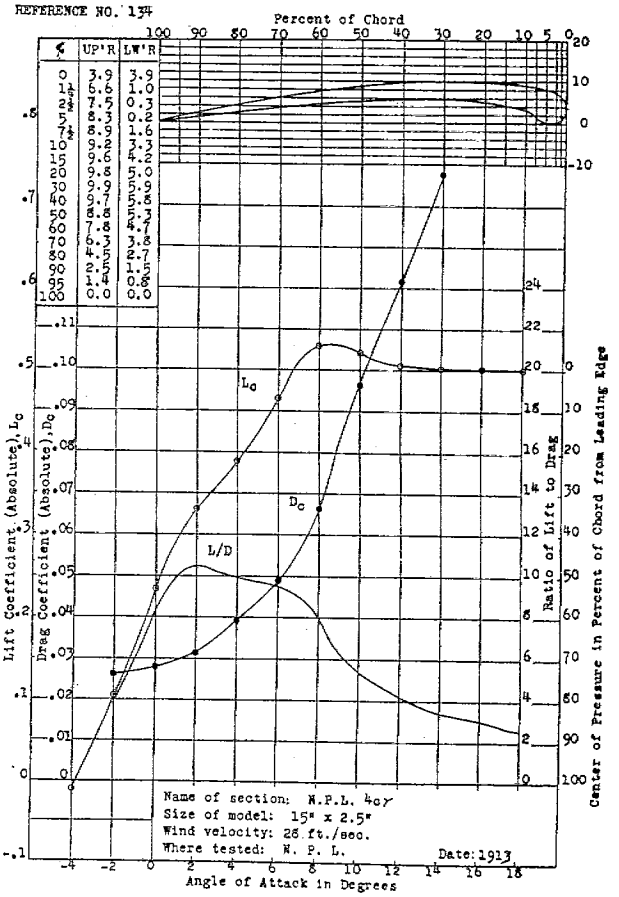

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.5 | 1.5 |
| 1¼ | 3.5 | 0.0 |
| 2½ | 4.6 | 0.3 |
| 5 | 6.2 | 1.9 |
| 7½ | 7.3 | 3.3 |
| 10 | 8.1 | 4.1 |
| 15 | 9.2 | 5.2 |
| 20 | 9.7 | 5.8 |
| 30 | 9.9 | 5.9 |
| 40 | 9.7 | 5.8 |
| 50 | 8.8 | 5.3 |
| 60 | 7.8 | 4.7 |
| 70 | 6.3 | 3.8 |
| 80 | 4.5 | 2.7 |
| 90 | 2.5 | 1.5 |
| 95 | 1.4 | 0.8 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 133



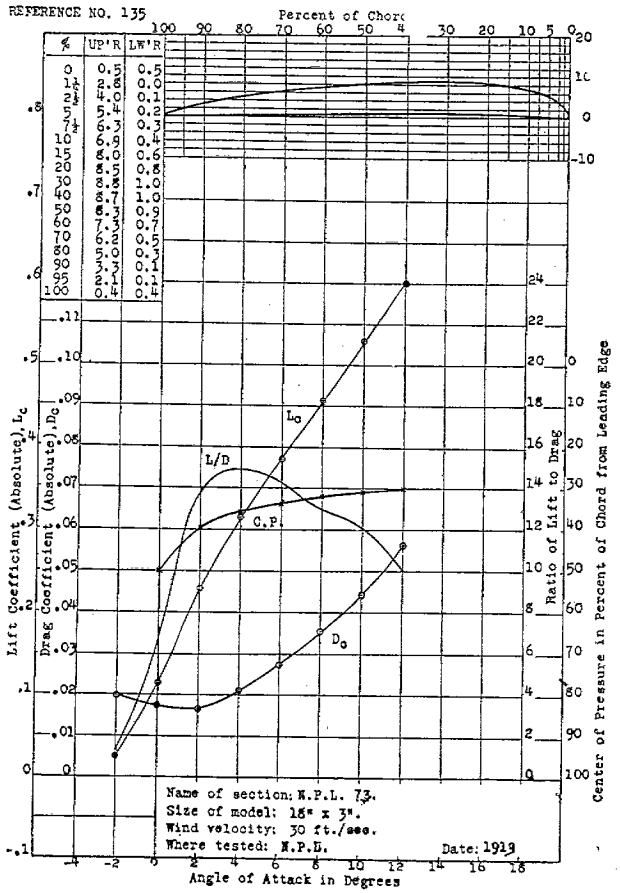

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.4 | 2.4 |
| 1¼ | 4.3 | 0.3 |
| 2½ | 5.4 | 0.0 |
| 5 | 6.9 | 0.6 |
| 7½ | 7.9 | 2.2 |
| 10 | 8.5 | 3.6 |
| 15 | 9.3 | 5.0 |
| 20 | 9.7 | 5.6 |
| 30 | 9.9 | 5.9 |
| 40 | 9.7 | 5.8 |
| 50 | 8.8 | 5.3 |
| 60 | 7.8 | 4.7 |
| 70 | 6.3 | 3.8 |
| 80 | 4.5 | 2.7 |
| 90 | 2.5 | 1.5 |
| 95 | 1.4 | 0.8 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 134



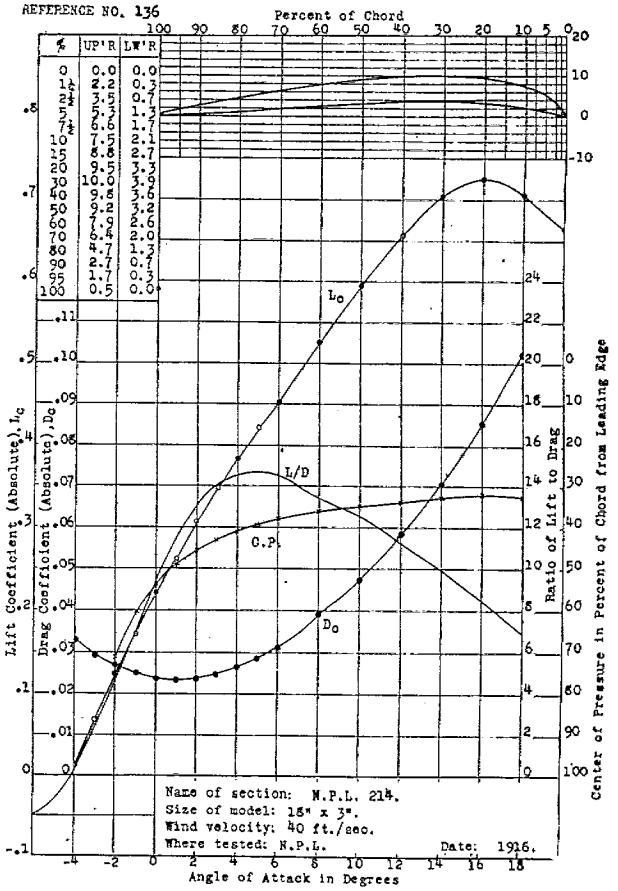

| % | UP'R | LW'R |
|---|---|---|
| 0 | 3.9 | 3.9 |
| 1¼ | 6.6 | 1.0 |
| 2½ | 7.5 | 0.3 |
| 5 | 8.3 | 0.2 |
| 7½ | 8.9 | 1.6 |
| 10 | 9.2 | 3.3 |
| 15 | 9.6 | 4.2 |
| 20 | 9.8 | 5.0 |
| 30 | 9.9 | 5.9 |
| 40 | 9.7 | 5.8 |
| 50 | 8.8 | 5.3 |
| 60 | 7.8 | 4.7 |
| 70 | 6.3 | 3.8 |
| 80 | 4.5 | 2.7 |
| 90 | 2.5 | 1.5 |
| 95 | 1.4 | 0.8 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 135




| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.5 | 0.5 |
| 1¼ | 2.8 | 0.0 |
| 2½ | 4.0 | 0.1 |
| 5 | 5.4 | 0.2 |
| 7½ | 6.3 | 0.3 |
| 10 | 6.9 | 0.4 |
| 15 | 8.0 | 0.6 |
| 20 | 8.5 | 0.8 |
| 30 | 8.8 | 1.0 |
| 40 | 8.7 | 1.0 |
| 50 | 8.3 | 0.9 |
| 60 | 7.3 | 0.7 |
| 70 | 6.2 | 0.5 |
| 80 | 5.0 | 0.3 |
| 90 | 3.3 | 0.1 |
| 95 | 2.1 | 0.1 |
| 100 | 0.4 | 0.4 |

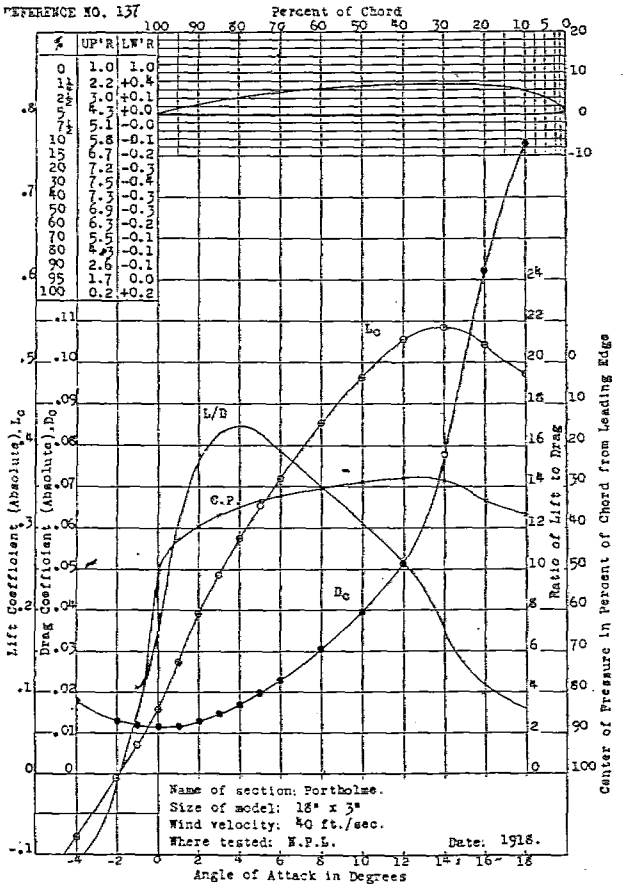
REFERENCE NO. 136




| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.2 | 0.3 |
| 2½ | 3.5 | 0.7 |
| 5 | 5.3 | 1.3 |
| 7½ | 6.6 | 1.7 |
| 10 | 7.5 | 2.1 |
| 15 | 8.8 | 2.7 |
| 20 | 9.5 | 3.3 |
| 30 | 10.0 | 3.9 |
| 40 | 9.8 | 3.6 |
| 50 | 9.2 | 3.2 |
| 60 | 7.9 | 2.6 |
| 70 | 6.4 | 2.0 |
| 80 | 4.7 | 1.3 |
| 90 | 2.7 | 0.7 |
| 95 | 1.7 | 0.3 |
| 100 | 0.5 | 0.0 |

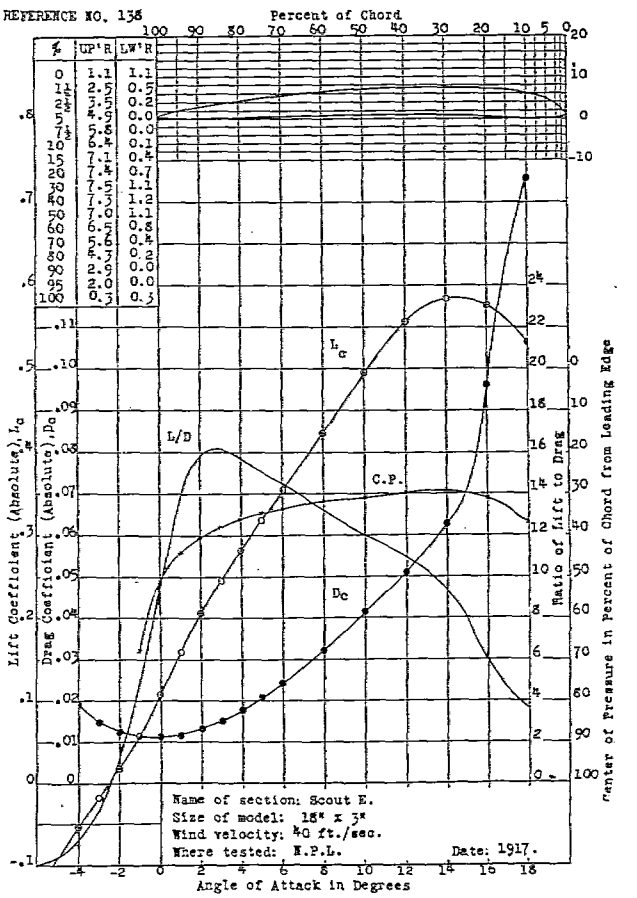
REFERENCE NO. 137

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 1.0 |
| 1¼ | 2.2 | +0.4 |
| 2½ | 3.0 | +0.1 |
| 5 | 4.3 | +0.0 |
| 7½ | 5.1 | -0.0 |
| 10 | 5.8 | -0.1 |
| 15 | 6.7 | -0.2 |
| 20 | 7.2 | -0.3 |
| 30 | 7.5 | -0.4 |
| 40 | 7.3 | -0.3 |
| 50 | 6.9 | -0.3 |
| 60 | 6.3 | -0.2 |
| 70 | 5.5 | -0.1 |
| 80 | 4.3 | -0.1 |
| 90 | 2.6 | -0.1 |
| 95 | 1.7 | 0.0 |
| 100 | 0.2 | +0.2 |



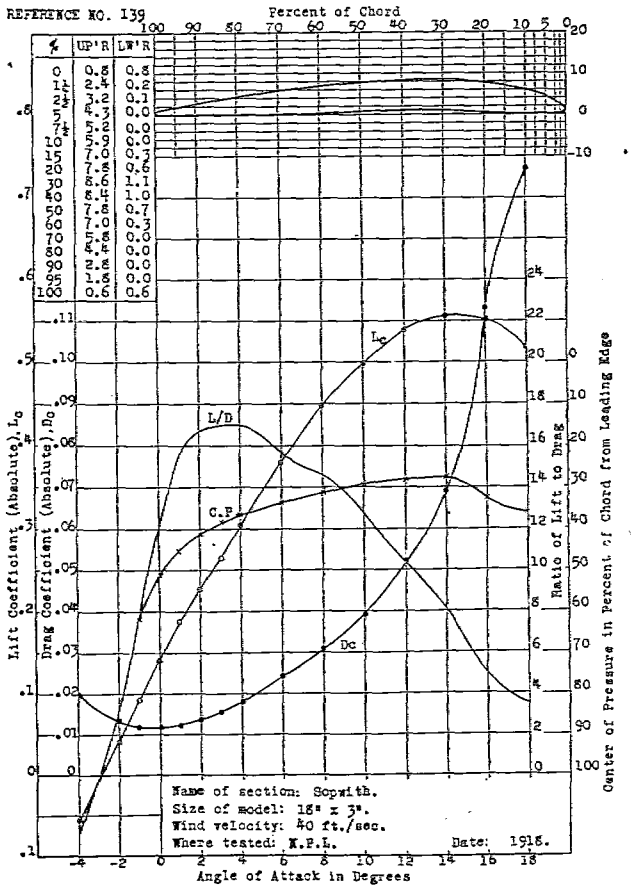

REFERENCE NO. 138

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.1 | 1.1 |
| 1¼ | 2.5 | 0.5 |
| 2½ | 3.5 | 0.2 |
| 5 | 4.9 | 0.0 |
| 7½ | 5.8 | 0.0 |
| 10 | 6.4 | 0.1 |
| 15 | 7.1 | 0.4 |
| 20 | 7.4 | 0.7 |
| 30 | 7.5 | 1.1 |
| 40 | 7.3 | 1.2 |
| 50 | 7.0 | 1.1 |
| 60 | 6.5 | 0.8 |
| 70 | 5.6 | 0.4 |
| 80 | 4.3 | 0.2 |
| 90 | 2.9 | 0.0 |
| 95 | 2.0 | 0.0 |
| 100 | 0.3 | 0.3 |



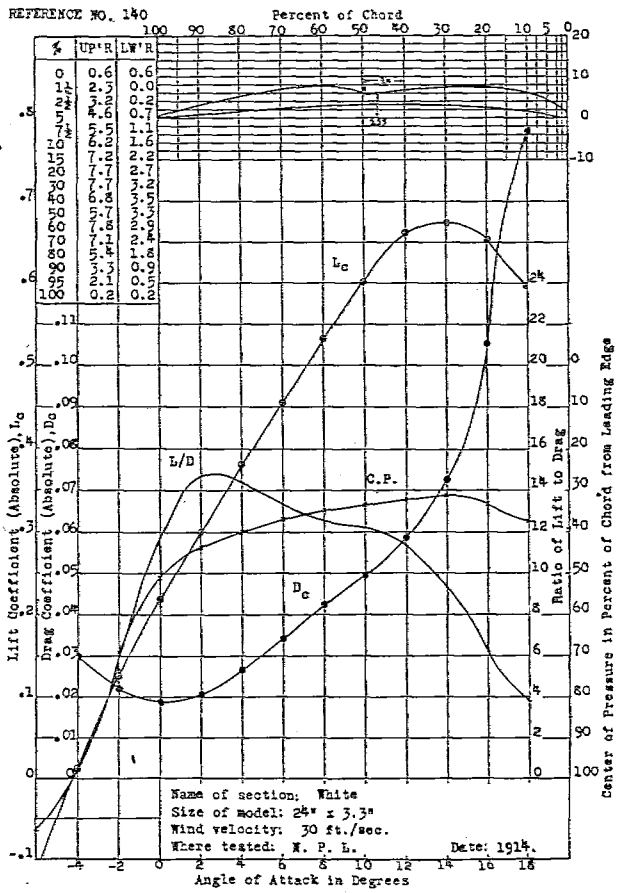

REFERENCE NO. 139

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.8 |
| 1¼ | 2.4 | 0.2 |
| 2½ | 3.2 | 0.1 |
| 5 | 4.3 | 0.0 |
| 7½ | 5.2 | 0.0 |
| 10 | 5.9 | 0.0 |
| 15 | 7.0 | 0.3 |
| 20 | 7.8 | 0.6 |
| 30 | 8.6 | 1.1 |
| 40 | 8.4 | 1.0 |
| 50 | 7.8 | 0.7 |
| 60 | 7.0 | 0.3 |
| 70 | 5.8 | 0.0 |
| 80 | 4.4 | 0.0 |
| 90 | 2.8 | 0.0 |
| 95 | 1.8 | 0.0 |
| 100 | 0.6 | 0.6 |

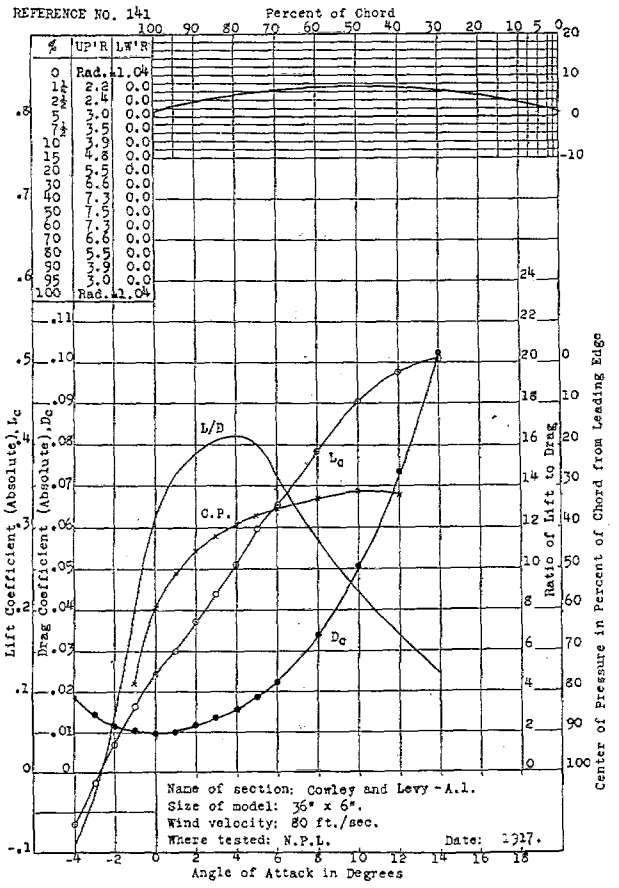



REFERENCE NO. 140

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.6 | 0.6 |
| 1¼ | 2.3 | 0.0 |
| 2½ | 3.2 | 0.2 |
| 5 | 4.6 | 0.7 |
| 7½ | 5.5 | 1.1 |
| 10 | 6.2 | 1.6 |
| 15 | 7.2 | 2.2 |
| 20 | 7.7 | 2.7 |
| 30 | 7.7 | 3.2 |
| 40 | 6.8 | 3.5 |
| 50 | 5.7 | 3.3 |
| 60 | 4.8 | 2.9 |
| 70 | 7.1 | 2.4 |
| 80 | 5.4 | 1.8 |
| 90 | 3.3 | 0.9 |
| 95 | 2.1 | 0.5 |
| 100 | 0.2 | 0.2 |

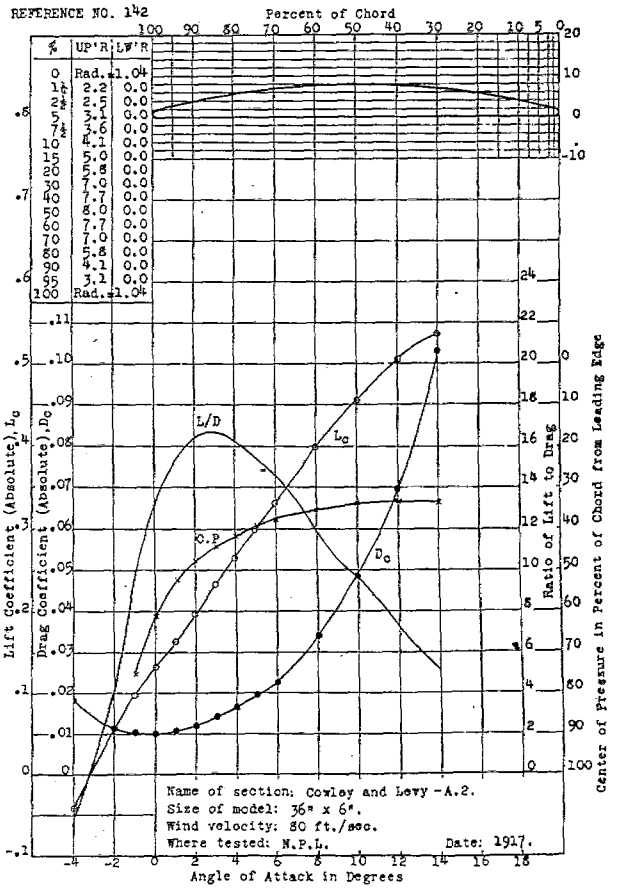


REFERENCE NO. 141



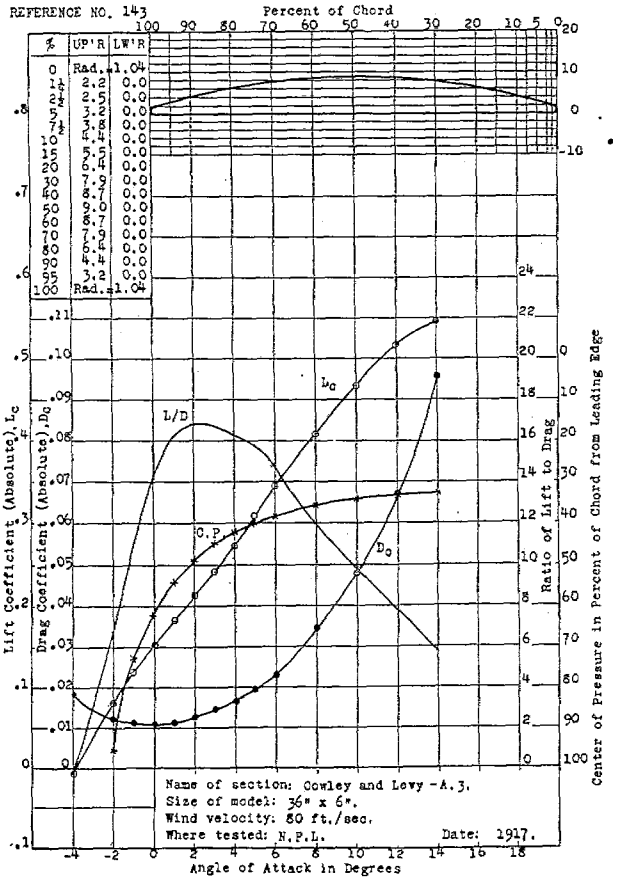

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad. | 1.04 |
| 1¼ | 2.2 | 0.0 |
| 2½ | 2.4 | 0.0 |
| 5 | 3.0 | 0.0 |
| 7½ | 3.5 | 0.0 |
| 10 | 3.9 | 0.0 |
| 15 | 4.8 | 0.0 |
| 20 | 5.5 | 0.0 |
| 30 | 6.6 | 0.0 |
| 40 | 7.3 | 0.0 |
| 50 | 7.5 | 0.0 |
| 60 | 7.3 | 0.0 |
| 70 | 6.6 | 0.0 |
| 80 | 5.5 | 0.0 |
| 90 | 3.9 | 0.0 |
| 95 | 3.0 | 0.0 |
| 100 | Rad. | 1.04 |

REFERENCE NO. 142



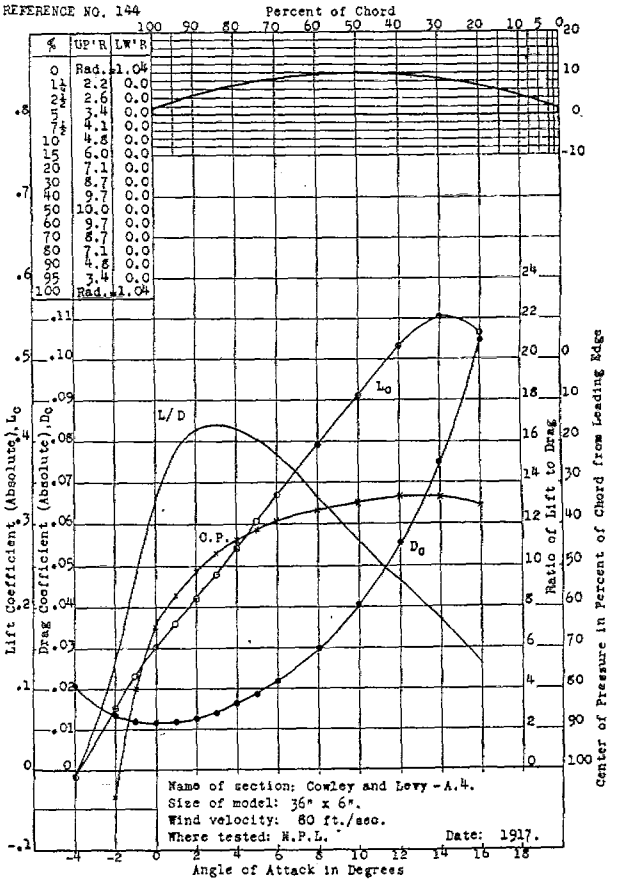

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad. | 1.04 |
| 1¼ | 2.2 | 0.0 |
| 2½ | 2.5 | 0.0 |
| 5 | 3.1 | 0.0 |
| 7½ | 3.6 | 0.0 |
| 10 | 4.1 | 0.0 |
| 15 | 5.0 | 0.0 |
| 20 | 5.8 | 0.0 |
| 30 | 7.0 | 0.0 |
| 40 | 7.7 | 0.0 |
| 50 | 8.0 | 0.0 |
| 60 | 7.7 | 0.0 |
| 70 | 7.0 | 0.0 |
| 80 | 5.8 | 0.0 |
| 90 | 4.1 | 0.0 |
| 95 | 3.1 | 0.0 |
| 100 | Rad. | 1.04 |

REFERENCE NO. 143



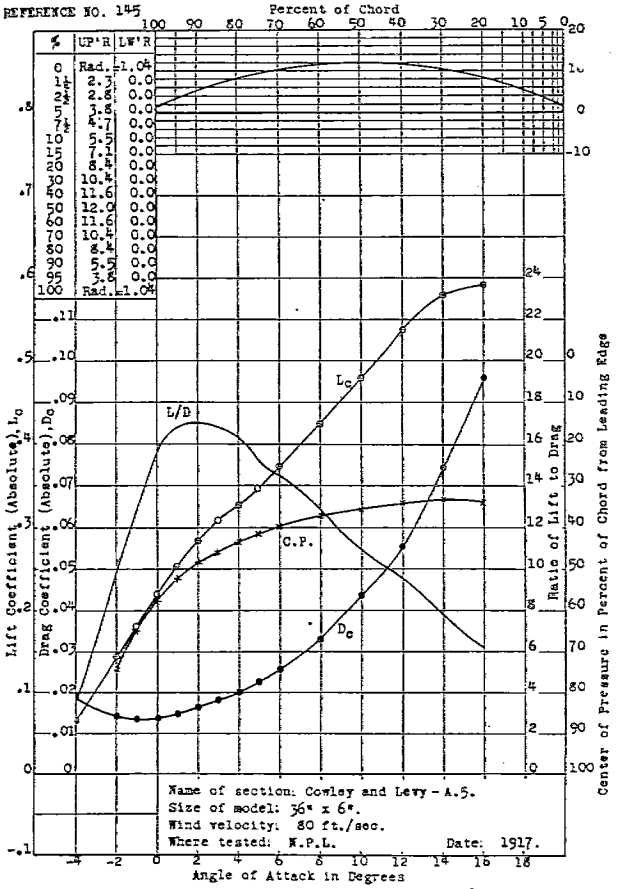

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad. | 1.04 |
| 1¼ | 2.2 | 0.0 |
| 2½ | 2.5 | 0.0 |
| 5 | 3.2 | 0.0 |
| 7½ | 3.8 | 0.0 |
| 10 | 4.4 | 0.0 |
| 15 | 5.5 | 0.0 |
| 20 | 6.4 | 0.0 |
| 30 | 7.9 | 0.0 |
| 40 | 8.7 | 0.0 |
| 50 | 9.0 | 0.0 |
| 60 | 8.7 | 0.0 |
| 70 | 7.9 | 0.0 |
| 80 | 6.4 | 0.0 |
| 90 | 4.4 | 0.0 |
| 95 | 3.2 | 0.0 |
| 100 | Rad. | 1.04 |

REFERENCE NO. 144



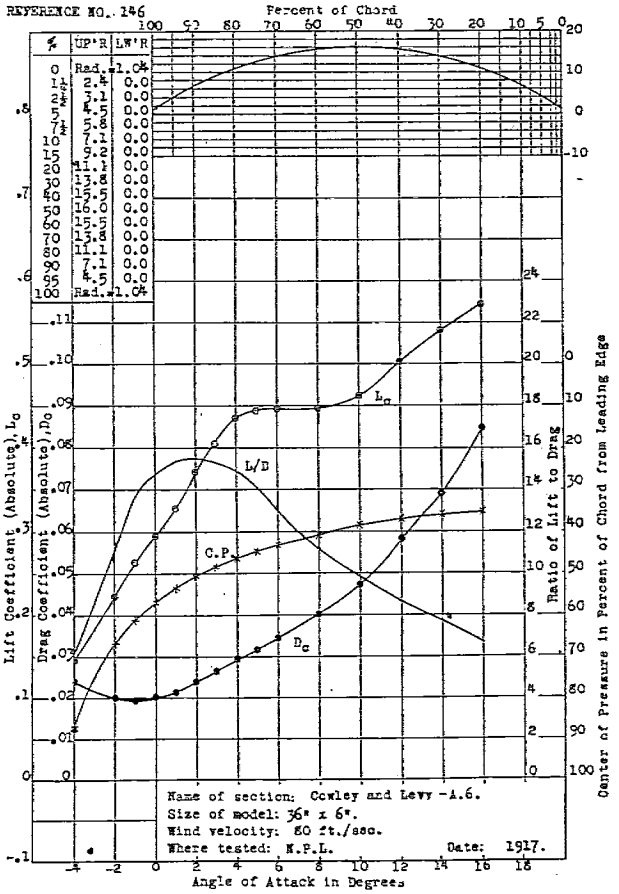

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad. | 1.04 |
| 1¼ | 2.2 | 0.0 |
| 2½ | 2.6 | 0.0 |
| 5 | 3.4 | 0.0 |
| 7½ | 4.1 | 0.0 |
| 10 | 4.8 | 0.0 |
| 15 | 6.0 | 0.0 |
| 20 | 7.1 | 0.0 |
| 30 | 8.7 | 0.0 |
| 40 | 9.7 | 0.0 |
| 50 | 10.0 | 0.0 |
| 60 | 9.7 | 0.0 |
| 70 | 8.7 | 0.0 |
| 80 | 7.1 | 0.0 |
| 90 | 4.8 | 0.0 |
| 95 | 3.4 | 0.0 |
| 100 | Rad. | 1.04 |

REFERENCE NO. 145



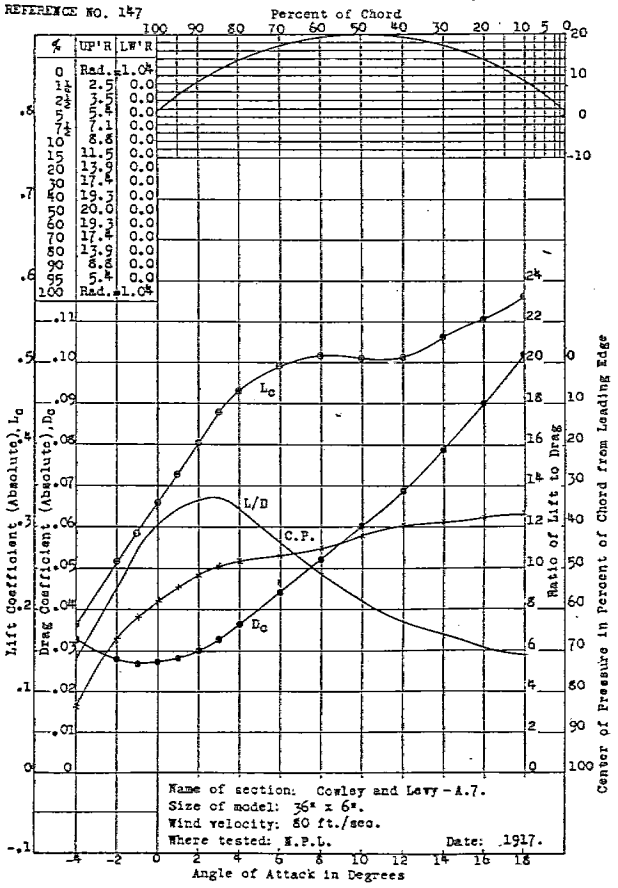

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad. | 1.04 |
| 1¼ | 2.3 | 0.0 |
| 2½ | 2.8 | 0.0 |
| 5 | 3.8 | 0.0 |
| 7½ | 4.7 | 0.0 |
| 10 | 5.5 | 0.0 |
| 15 | 7.1 | 0.0 |
| 20 | 8.4 | 0.0 |
| 30 | 10.4 | 0.0 |
| 40 | 11.6 | 0.0 |
| 50 | 12.0 | 0.0 |
| 60 | 11.6 | 0.0 |
| 70 | 10.4 | 0.0 |
| 80 | 8.4 | 0.0 |
| 90 | 5.5 | 0.0 |
| 95 | 3.8 | 0.0 |
| 100 | Rad. | 1.04 |

REFERENCE NO. 146



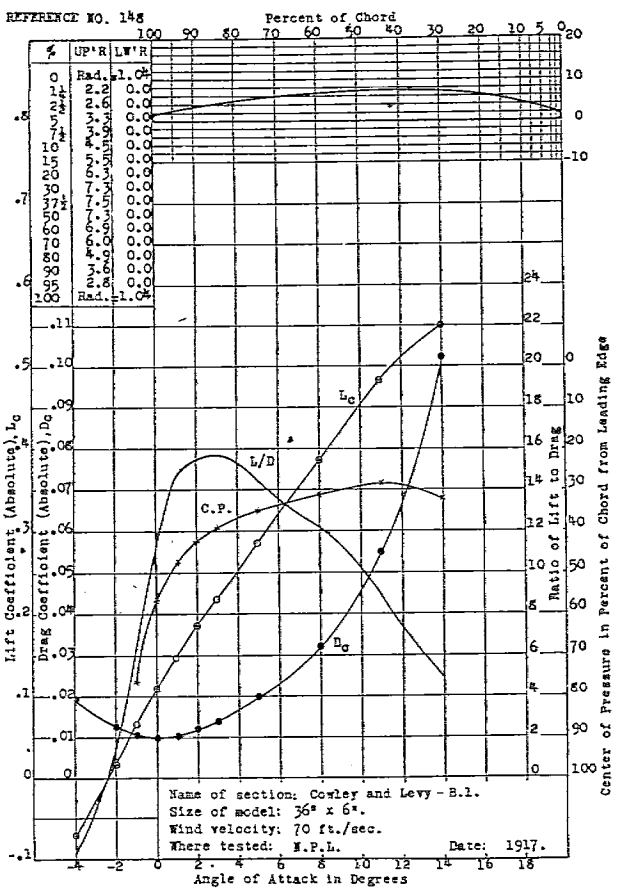

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad. | 1.04 |
| 1¼ | 2.4 | 0.0 |
| 2½ | 3.1 | 0.0 |
| 5 | 4.5 | 0.0 |
| 7½ | 5.8 | 0.0 |
| 10 | 7.1 | 0.0 |
| 15 | 9.2 | 0.0 |
| 20 | 11.1 | 0.0 |
| 30 | 13.8 | 0.0 |
| 40 | 15.5 | 0.0 |
| 50 | 16.0 | 0.0 |
| 60 | 15.5 | 0.0 |
| 70 | 13.8 | 0.0 |
| 80 | 11.1 | 0.0 |
| 90 | 7.1 | 0.0 |
| 95 | 4.5 | 0.0 |
| 100 | Rad. | 1.04 |

REFERENCE NO. 147



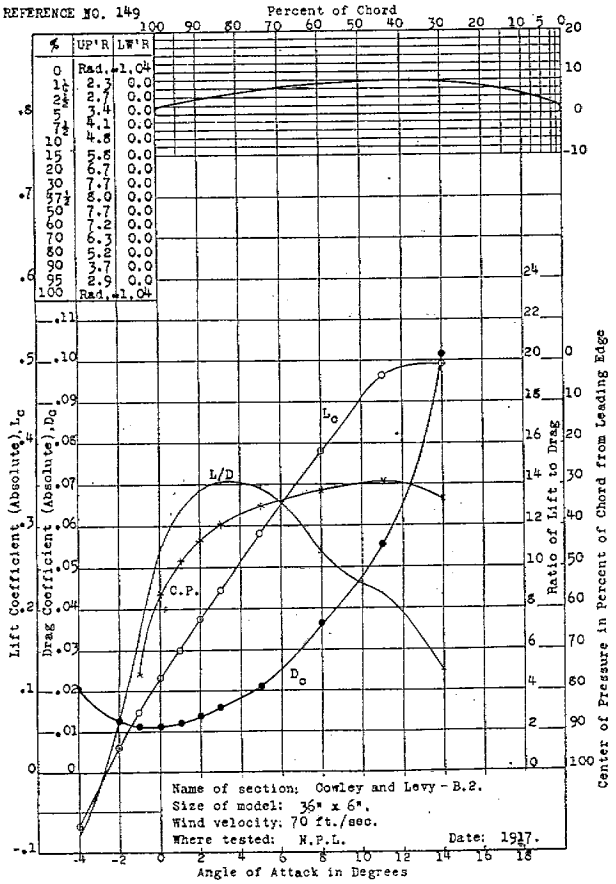

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad. | 1.04 |
| 1¼ | 2.5 | 0.0 |
| 2½ | 3.2 | 0.0 |
| 5 | 5.4 | 0.0 |
| 7½ | 7.1 | 0.0 |
| 10 | 8.6 | 0.0 |
| 15 | 11.5 | 0.0 |
| 20 | 13.9 | 0.0 |
| 30 | 17.4 | 0.0 |
| 40 | 19.3 | 0.0 |
| 50 | 20.0 | 0.0 |
| 60 | 19.3 | 0.0 |
| 70 | 17.4 | 0.0 |
| 80 | 13.9 | 0.0 |
| 90 | 8.6 | 0.0 |
| 95 | 5.4 | 0.0 |
| 100 | Rad. | 1.04 |

REFERENCE NO. 148



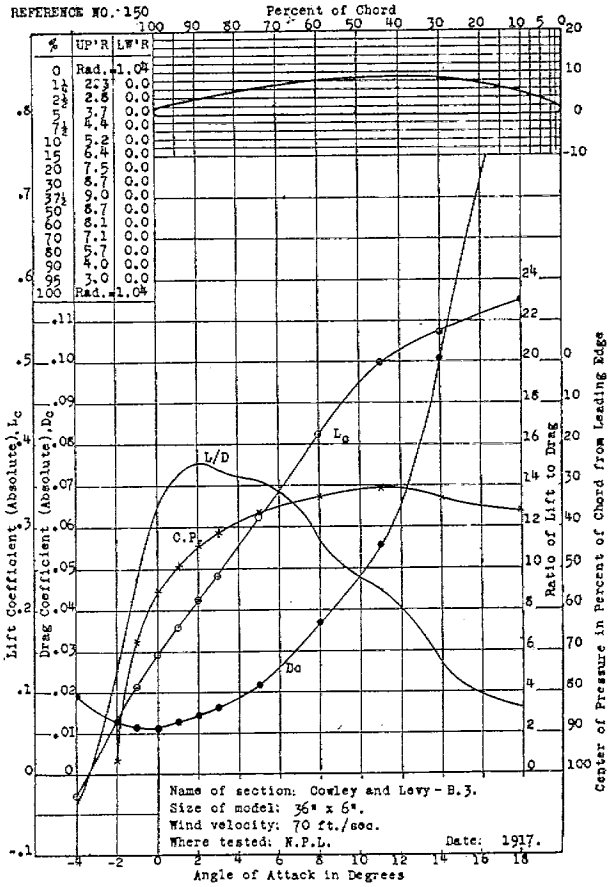

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad. | 1.04 |
| 1¼ | 2.2 | 0.0 |
| 2½ | 2.6 | 0.0 |
| 5 | 3.3 | 0.0 |
| 7½ | 3.9 | 0.0 |
| 10 | 4.5 | 0.0 |
| 15 | 5.5 | 0.0 |
| 20 | 6.3 | 0.0 |
| 30 | 7.3 | 0.0 |
| 37½ | 7.5 | 0.0 |
| 50 | 7.3 | 0.0 |
| 60 | 6.9 | 0.0 |
| 70 | 6.0 | 0.0 |
| 80 | 4.9 | 0.0 |
| 90 | 3.6 | 0.0 |
| 95 | 2.8 | 0.0 |
| 100 | Rad. | 1.04 |

REFERENCE NO. 149



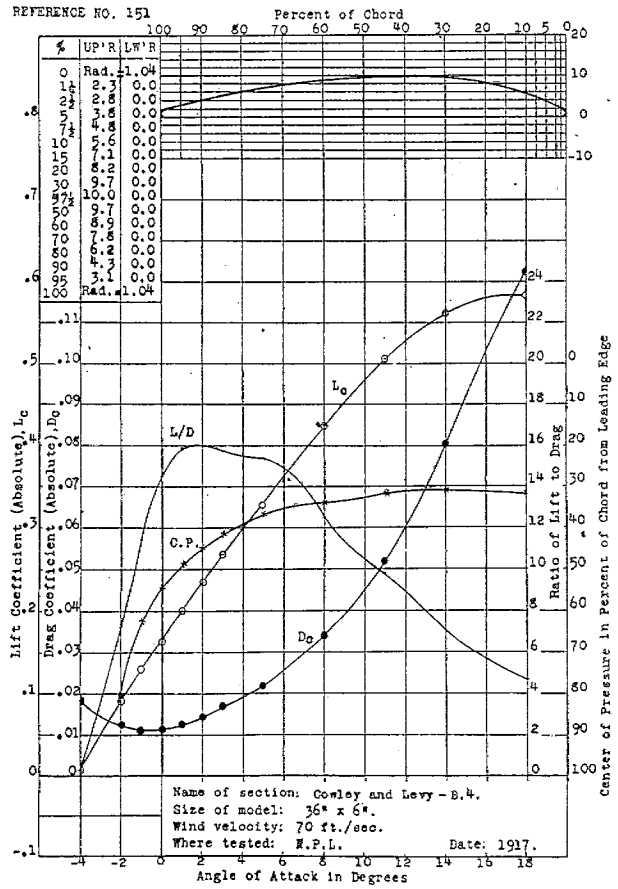

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad.=1.04 | |
| 1¼ | 2.3 | 0.0 |
| 2½ | 2.7 | 0.0 |
| 5 | 3.4 | 0.0 |
| 7½ | 4.1 | 0.0 |
| 10 | 4.8 | 0.0 |
| 15 | 5.8 | 0.0 |
| 20 | 6.7 | 0.0 |
| 30 | 7.7 | 0.0 |
| 37½ | 8.0 | 0.0 |
| 50 | 7.7 | 0.0 |
| 60 | 7.2 | 0.0 |
| 70 | 6.3 | 0.0 |
| 80 | 5.2 | 0.0 |
| 90 | 3.7 | 0.0 |
| 95 | 2.9 | 0.0 |
| 100 | Rad.=1.04 | |

REFERENCE NO. 150



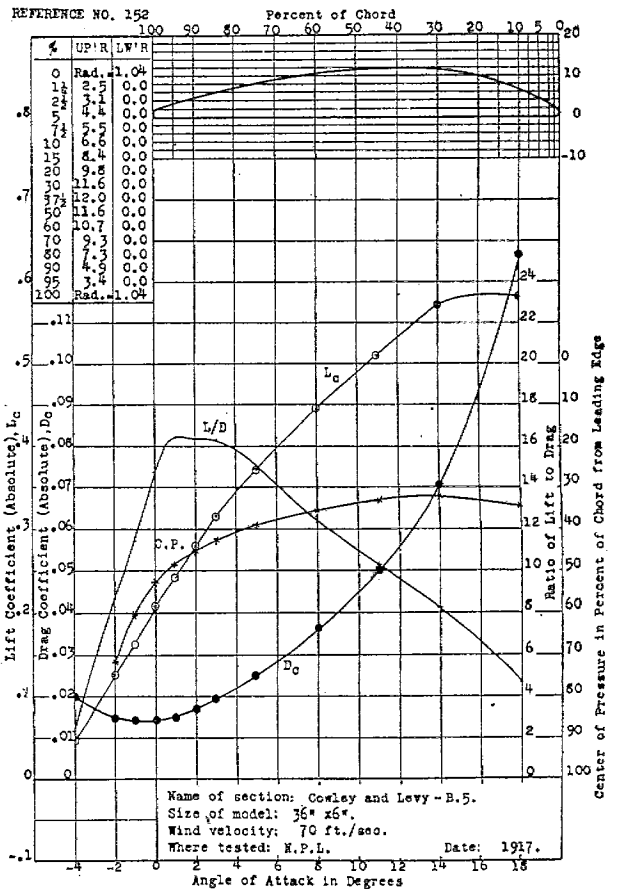

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad.=1.04 | |
| 1¼ | 2.3 | 0.0 |
| 2½ | 2.8 | 0.0 |
| 5 | 3.7 | 0.0 |
| 7½ | 4.4 | 0.0 |
| 10 | 5.2 | 0.0 |
| 15 | 6.4 | 0.0 |
| 20 | 7.5 | 0.0 |
| 30 | 8.7 | 0.0 |
| 37½ | 9.0 | 0.0 |
| 50 | 8.7 | 0.0 |
| 60 | 8.1 | 0.0 |
| 70 | 7.1 | 0.0 |
| 80 | 5.7 | 0.0 |
| 90 | 4.0 | 0.0 |
| 95 | 3.0 | 0.0 |
| 100 | Rad.=1.04 | |

REFERENCE NO. 151



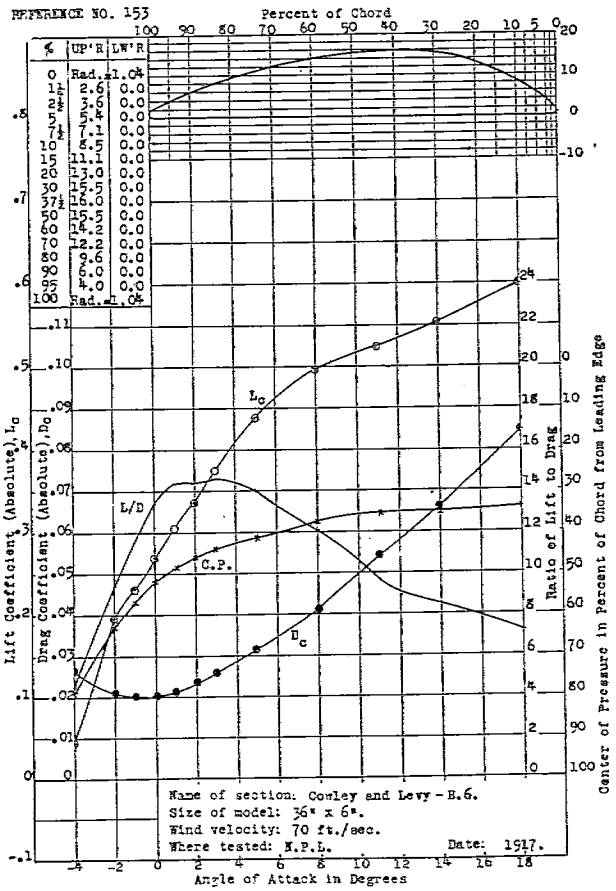

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad.=1.04 | |
| 1¼ | 2.3 | 0.0 |
| 2½ | 2.8 | 0.0 |
| 5 | 3.8 | 0.0 |
| 7½ | 4.8 | 0.0 |
| 10 | 5.6 | 0.0 |
| 15 | 7.1 | 0.0 |
| 20 | 8.2 | 0.0 |
| 30 | 9.7 | 0.0 |
| 37½ | 10.0 | 0.0 |
| 50 | 9.7 | 0.0 |
| 60 | 8.9 | 0.0 |
| 70 | 7.8 | 0.0 |
| 80 | 6.2 | 0.0 |
| 90 | 4.3 | 0.0 |
| 95 | 3.1 | 0.0 |
| 100 | Rad.=1.04 | |

REFERENCE NO. 152



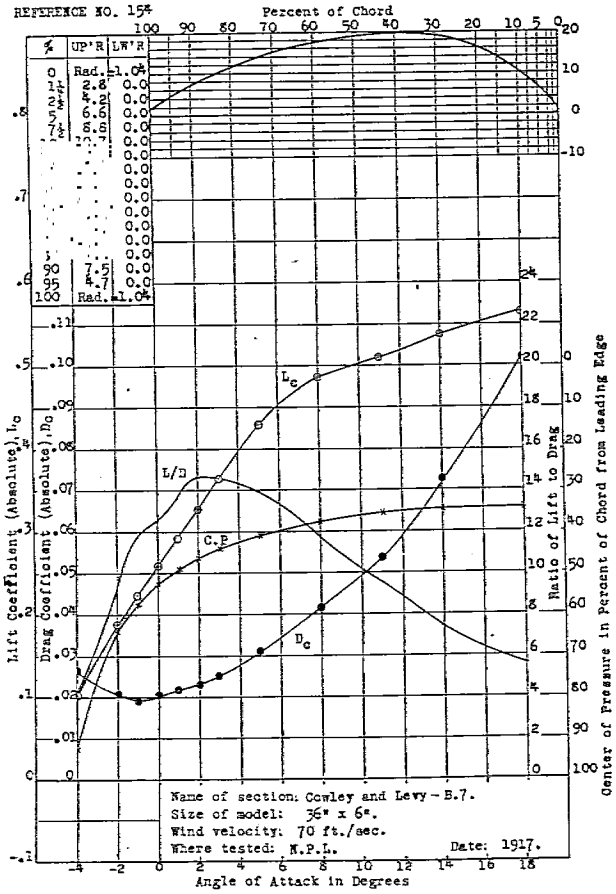

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad.=1.04 | |
| 1¼ | 2.5 | 0.0 |
| 2½ | 3.1 | 0.0 |
| 5 | 4.4 | 0.0 |
| 7½ | 5.5 | 0.0 |
| 10 | 6.6 | 0.0 |
| 15 | 8.4 | 0.0 |
| 20 | 9.8 | 0.0 |
| 30 | 11.6 | 0.0 |
| 37½ | 12.0 | 0.0 |
| 50 | 11.6 | 0.0 |
| 60 | 10.7 | 0.0 |
| 70 | 9.3 | 0.0 |
| 80 | 7.3 | 0.0 |
| 90 | 4.9 | 0.0 |
| 95 | 3.4 | 0.0 |
| 100 | Rad.=1.04 | |

REFERENCE NO. 153



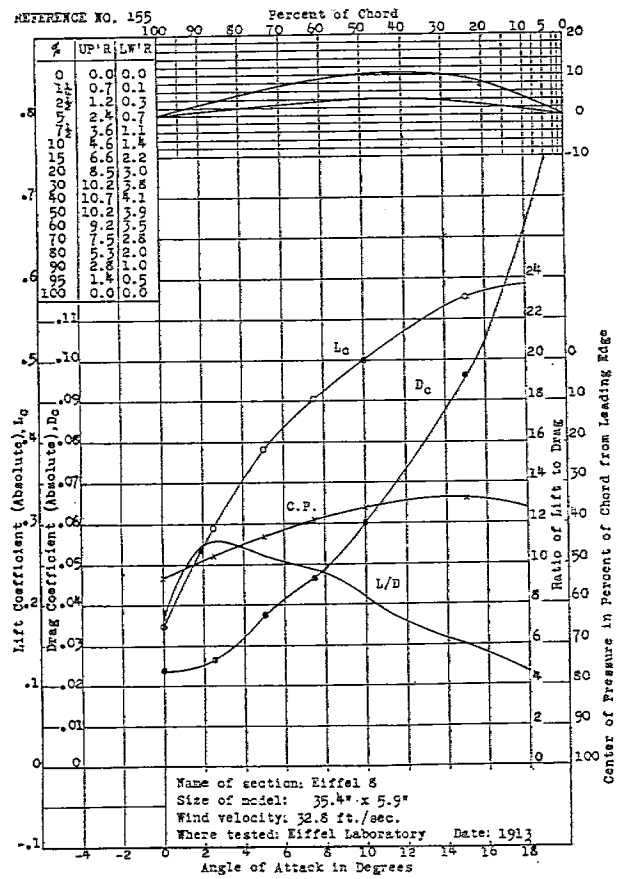

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad. | ±1.0% |
| 1¼ | 2.6 | 0.0 |
| 2½ | 3.6 | 0.0 |
| 5 | 5.4 | 0.0 |
| 7½ | 7.1 | 0.0 |
| 10 | 8.5 | 0.0 |
| 15 | 11.1 | 0.0 |
| 20 | 13.0 | 0.0 |
| 30 | 15.5 | 0.0 |
| 37½ | 16.0 | 0.0 |
| 50 | 15.5 | 0.0 |
| 60 | 14.2 | 0.0 |
| 70 | 12.2 | 0.0 |
| 80 | 9.6 | 0.0 |
| 90 | 6.0 | 0.0 |
| 95 | 4.0 | 0.0 |
| 100 | Rad. | ±1.0% |

REFERENCE NO. 154



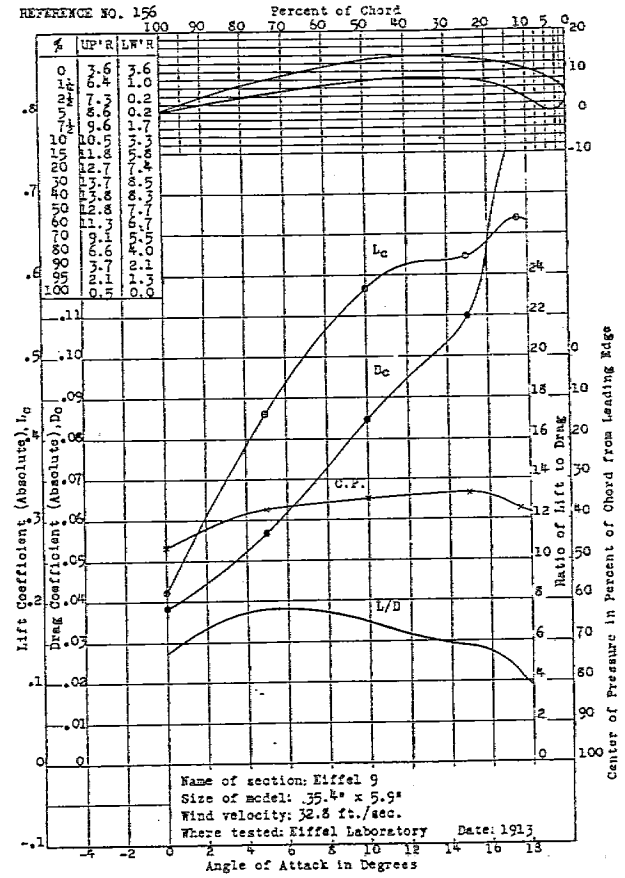

| % | UP'R | LW'R |
|---|---|---|
| 0 | Rad. | ±1.0% |
| 1¼ | 2.8 | 0.0 |
| 2½ | 4.2 | 0.0 |
| 5 | 6.6 | 0.0 |
| 7½ | 8.8 | 0.0 |
| 90 | 7.5 | 0.0 |
| 95 | 4.7 | 0.0 |
| 100 | Rad. | ±1.0% |

REFERENCE NO. 155



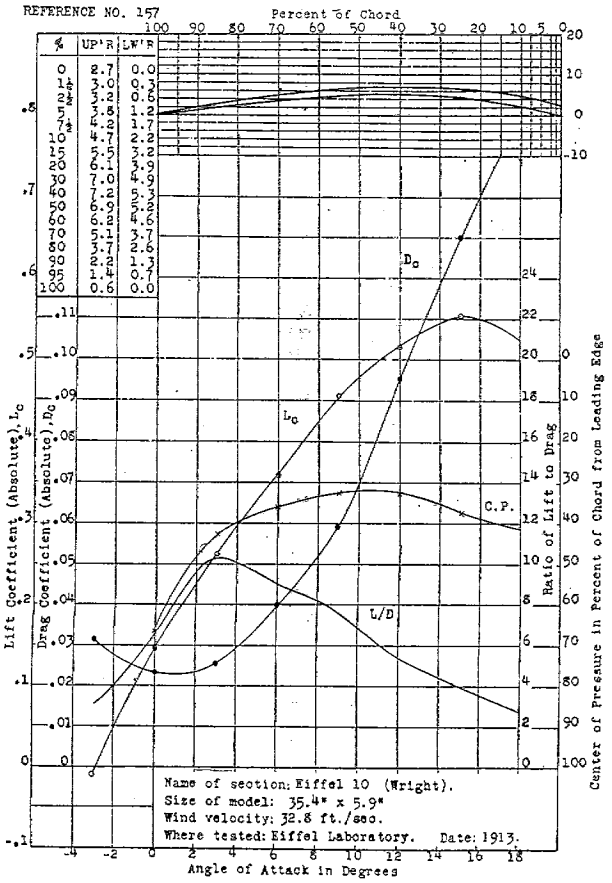

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 0.7 | 0.1 |
| 2½ | 1.2 | 0.3 |
| 5 | 2.4 | 0.7 |
| 7½ | 3.6 | 1.1 |
| 10 | 4.6 | 1.4 |
| 15 | 6.6 | 2.2 |
| 20 | 8.5 | 3.0 |
| 30 | 10.2 | 3.8 |
| 40 | 10.7 | 4.1 |
| 50 | 10.2 | 3.9 |
| 60 | 9.2 | 3.5 |
| 70 | 7.3 | 2.8 |
| 80 | 5.3 | 2.0 |
| 90 | 2.8 | 1.0 |
| 95 | 1.4 | 0.5 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 156



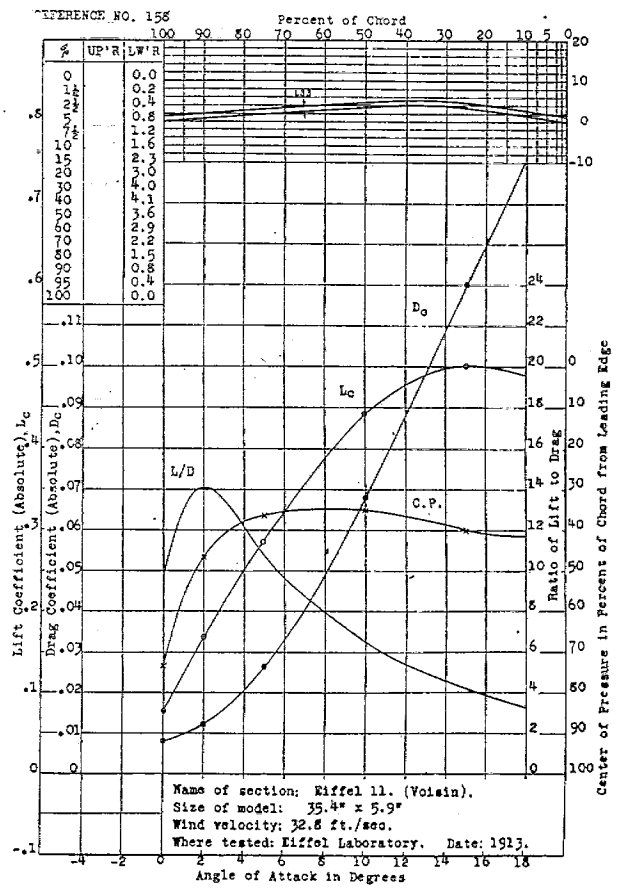

| % | UP'R | LW'R |
|---|---|---|
| 0 | 3.6 | 3.6 |
| 1¼ | 6.4 | 1.0 |
| 2½ | 7.3 | 0.2 |
| 5 | 8.6 | 0.2 |
| 7½ | 9.6 | 1.7 |
| 10 | 10.5 | 3.3 |
| 15 | 11.8 | 5.8 |
| 20 | 12.7 | 7.4 |
| 30 | 13.7 | 8.5 |
| 40 | 13.8 | 8.3 |
| 50 | 12.8 | 7.7 |
| 60 | 11.3 | 6.7 |
| 70 | 9.1 | 5.5 |
| 80 | 6.6 | 4.0 |
| 90 | 3.7 | 2.1 |
| 95 | 2.1 | 1.3 |
| 100 | 0.5 | 0.0 |

REFERENCE NO. 157



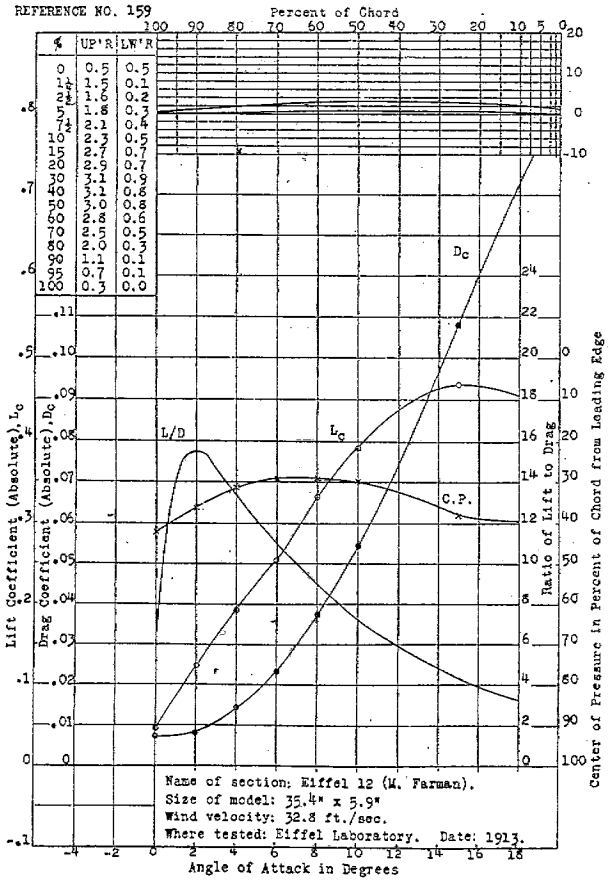

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.7 | 0.0 |
| 1¼ | 3.0 | 0.3 |
| 2½ | 3.2 | 0.6 |
| 5 | 3.8 | 1.2 |
| 7½ | 4.2 | 1.7 |
| 10 | 4.7 | 2.2 |
| 15 | 5.5 | 3.2 |
| 20 | 6.1 | 3.9 |
| 30 | 7.0 | 4.9 |
| 40 | 7.2 | 5.3 |
| 50 | 6.9 | 5.2 |
| 60 | 6.2 | 4.6 |
| 70 | 5.1 | 3.7 |
| 80 | 3.7 | 2.6 |
| 90 | 2.2 | 1.3 |
| 95 | 1.4 | 0.7 |
| 100 | 0.6 | 0.0 |

REFERENCE NO. 158



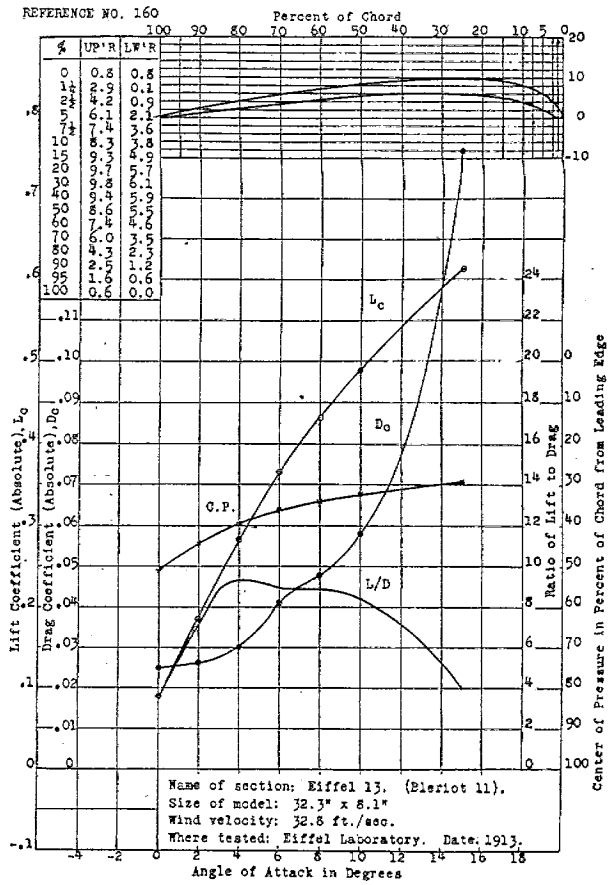

| % | UP'R | LW'R |
|---|---|---|
| 0 | | 0.0 |
| 1¼ | | 0.2 |
| 2½ | | 0.4 |
| 5 | | 0.8 |
| 7½ | | 1.2 |
| 10 | | 1.6 |
| 15 | | 2.3 |
| 20 | | 3.0 |
| 30 | | 4.0 |
| 40 | | 4.1 |
| 50 | | 3.6 |
| 60 | | 2.9 |
| 70 | | 2.2 |
| 80 | | 1.5 |
| 90 | | 0.8 |
| 95 | | 0.4 |
| 100 | | 0.0 |

REFERENCE NO. 159



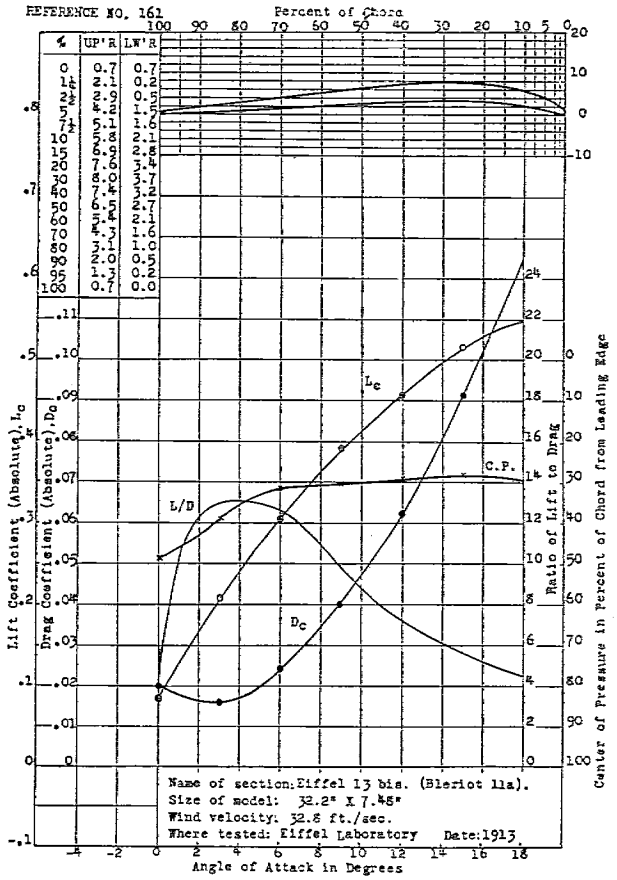

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.5 | 0.5 |
| 1¼ | 1.5 | 0.1 |
| 2½ | 1.6 | 0.2 |
| 5 | 1.8 | 0.3 |
| 7½ | 2.1 | 0.4 |
| 10 | 2.3 | 0.5 |
| 15 | 2.7 | 0.7 |
| 20 | 2.9 | 0.7 |
| 30 | 3.1 | 0.9 |
| 40 | 3.1 | 0.8 |
| 50 | 3.0 | 0.8 |
| 60 | 2.8 | 0.6 |
| 70 | 2.5 | 0.5 |
| 80 | 2.0 | 0.3 |
| 90 | 1.1 | 0.1 |
| 95 | 0.7 | 0.1 |
| 100 | 0.3 | 0.0 |

REFERENCE NO. 160



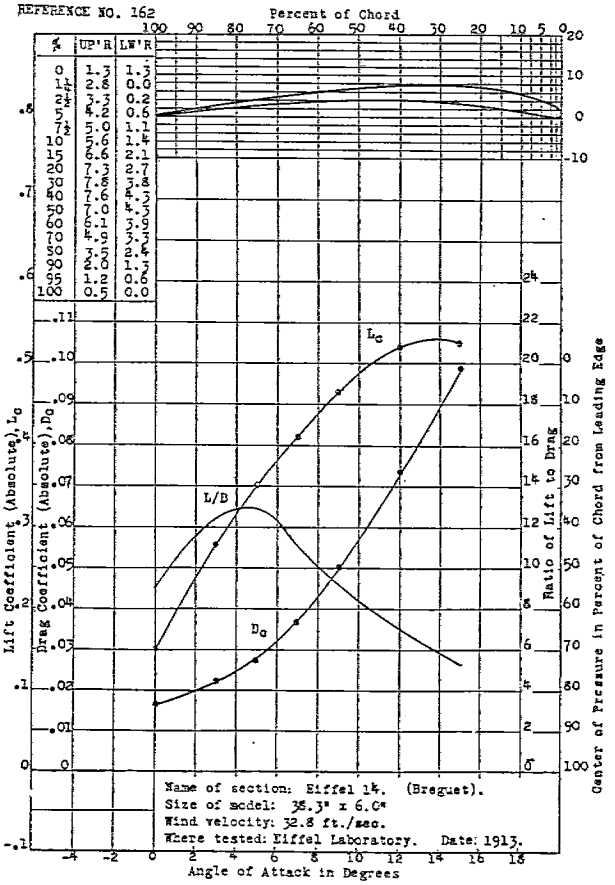

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.8 |
| 1¼ | 2.9 | 0.1 |
| 2½ | 4.2 | 0.9 |
| 5 | 6.1 | 2.1 |
| 7½ | 7.4 | 3.6 |
| 10 | 8.3 | 3.8 |
| 15 | 9.3 | 4.9 |
| 20 | 9.7 | 5.7 |
| 30 | 9.8 | 6.1 |
| 40 | 9.4 | 5.9 |
| 50 | 8.6 | 5.5 |
| 60 | 7.4 | 4.6 |
| 70 | 6.0 | 3.5 |
| 80 | 4.3 | 2.3 |
| 90 | 2.5 | 1.2 |
| 95 | 1.6 | 0.6 |
| 100 | 0.6 | 0.0 |

REFERENCE NO. 161



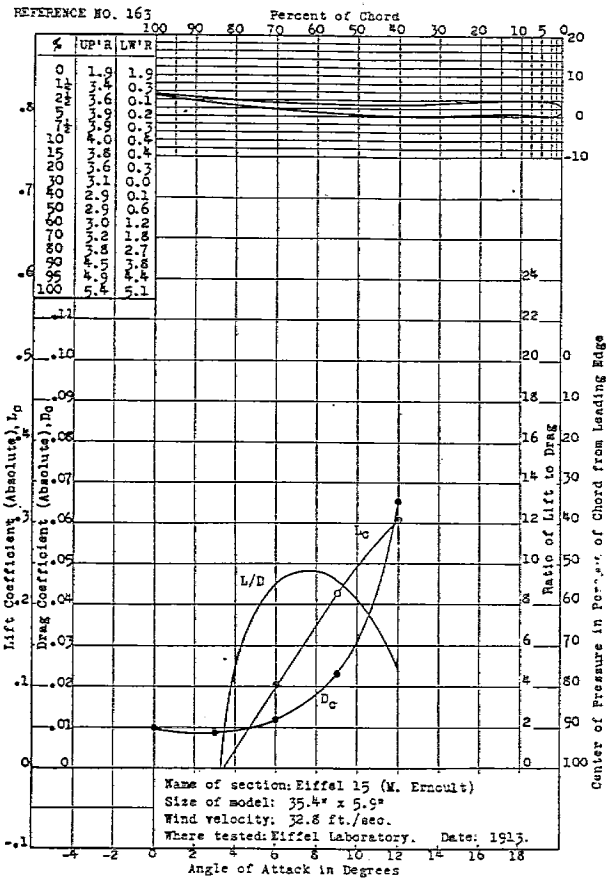

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 2.1 | 0.2 |
| 2½ | 2.9 | 0.5 |
| 5 | 4.2 | 1.7 |
| 7½ | 5.1 | 1.6 |
| 10 | 5.8 | 2.1 |
| 15 | 6.9 | 2.8 |
| 20 | 7.6 | 3.4 |
| 30 | 8.0 | 3.7 |
| 40 | 7.4 | 3.2 |
| 50 | 6.5 | 2.7 |
| 60 | 5.4 | 2.1 |
| 70 | 4.3 | 1.6 |
| 80 | 3.1 | 1.0 |
| 90 | 2.0 | 0.5 |
| 95 | 1.3 | 0.2 |
| 100 | 0.7 | 0.0 |

REFERENCE NO. 162



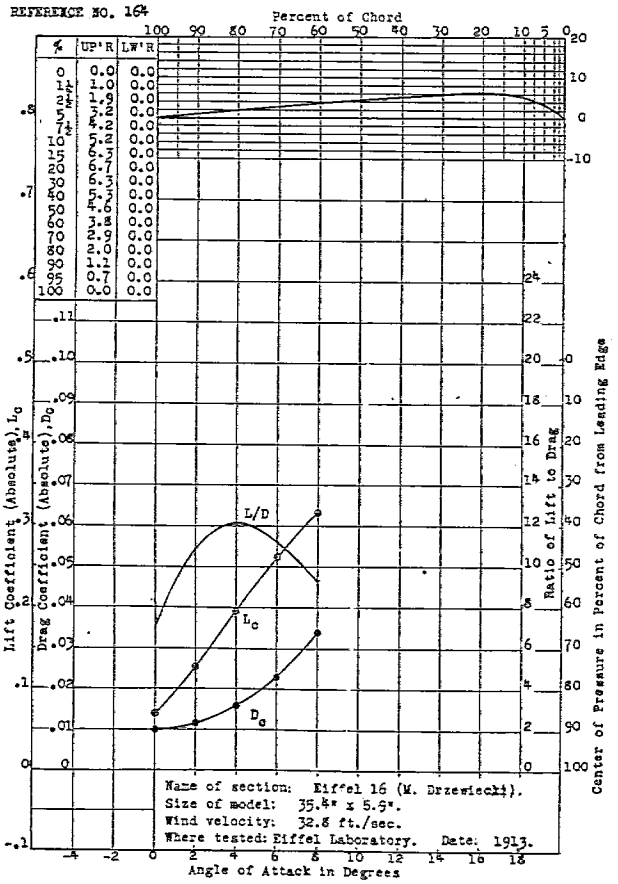

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 1.3 |
| 1¼ | 2.8 | 0.0 |
| 2½ | 3.3 | 0.2 |
| 5 | 4.2 | 0.6 |
| 7½ | 5.0 | 1.1 |
| 10 | 5.6 | 1.4 |
| 15 | 6.6 | 2.1 |
| 20 | 7.3 | 2.7 |
| 30 | 7.8 | 3.8 |
| 40 | 7.6 | 4.3 |
| 50 | 7.0 | 4.3 |
| 60 | 6.1 | 3.9 |
| 70 | 4.9 | 3.3 |
| 80 | 3.5 | 2.4 |
| 90 | 2.0 | 1.3 |
| 95 | 1.2 | 0.6 |
| 100 | 0.5 | 0.0 |

REFERENCE NO. 163



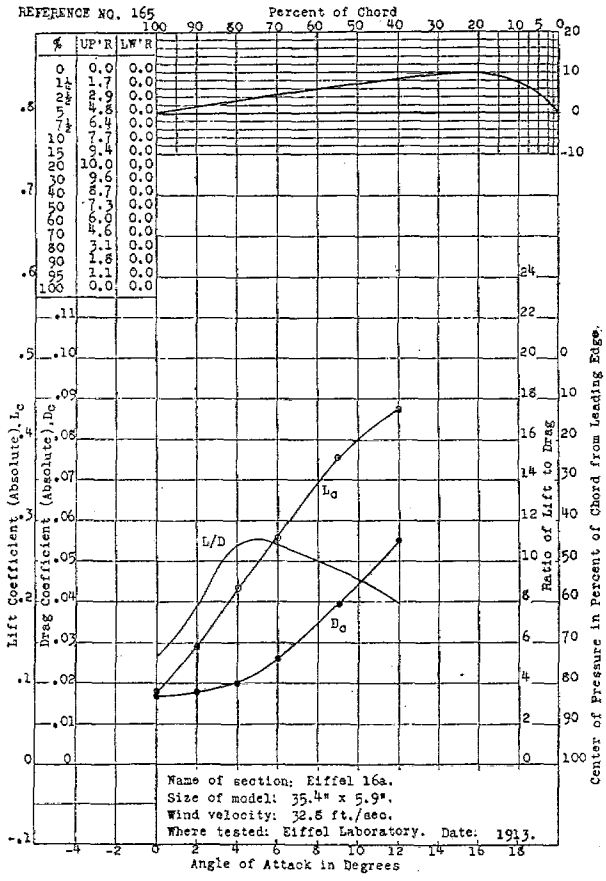

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.9 | 1.9 |
| 1¼ | 3.4 | 0.3 |
| 2½ | 3.6 | 0.1 |
| 5 | 3.9 | 0.2 |
| 7½ | 3.9 | 0.3 |
| 10 | 4.0 | 0.4 |
| 15 | 3.8 | 0.4 |
| 20 | 3.6 | 0.3 |
| 30 | 3.1 | 0.0 |
| 40 | 2.9 | 0.1 |
| 50 | 2.9 | 0.6 |
| 60 | 3.0 | 1.2 |
| 70 | 3.2 | 1.8 |
| 80 | 3.8 | 2.7 |
| 90 | 4.5 | 3.8 |
| 95 | 4.9 | 4.4 |
| 100 | 5.4 | 5.1 |

REFERENCE NO. 164



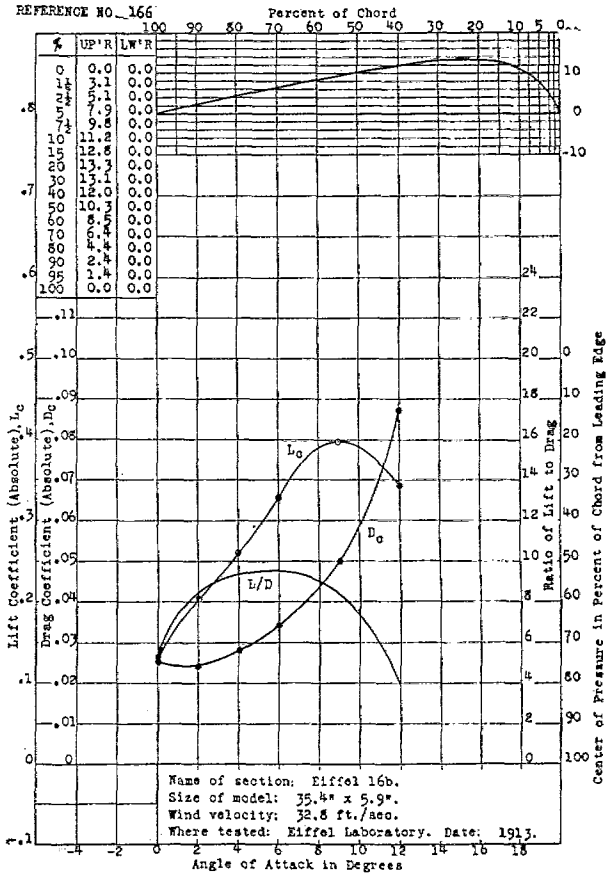

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.0 | 0.0 |
| 2½ | 1.9 | 0.0 |
| 5 | 3.2 | 0.0 |
| 7½ | 4.2 | 0.0 |
| 10 | 5.2 | 0.0 |
| 15 | 6.3 | 0.0 |
| 20 | 6.7 | 0.0 |
| 30 | 6.3 | 0.0 |
| 40 | 5.3 | 0.0 |
| 50 | 4.6 | 0.0 |
| 60 | 3.8 | 0.0 |
| 70 | 2.9 | 0.0 |
| 80 | 2.0 | 0.0 |
| 90 | 1.1 | 0.0 |
| 95 | 0.7 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 165



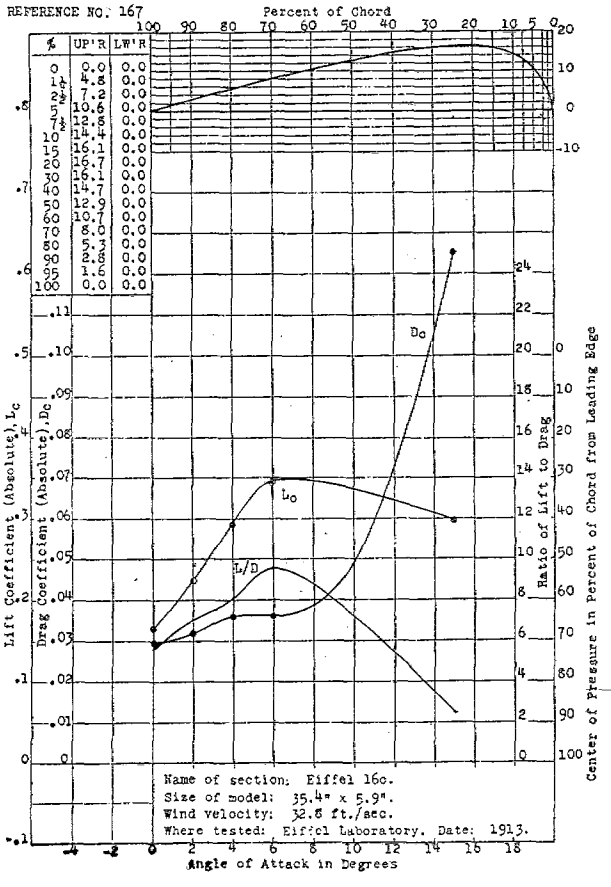

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 1.7 | 0.0 |
| 2½ | 2.9 | 0.0 |
| 5 | 4.8 | 0.0 |
| 7½ | 6.4 | 0.0 |
| 10 | 7.7 | 0.0 |
| 15 | 9.4 | 0.0 |
| 20 | 10.0 | 0.0 |
| 30 | 9.6 | 0.0 |
| 40 | 8.7 | 0.0 |
| 50 | 7.3 | 0.0 |
| 60 | 6.0 | 0.0 |
| 70 | 4.6 | 0.0 |
| 80 | 3.1 | 0.0 |
| 90 | 1.8 | 0.0 |
| 95 | 1.1 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 166



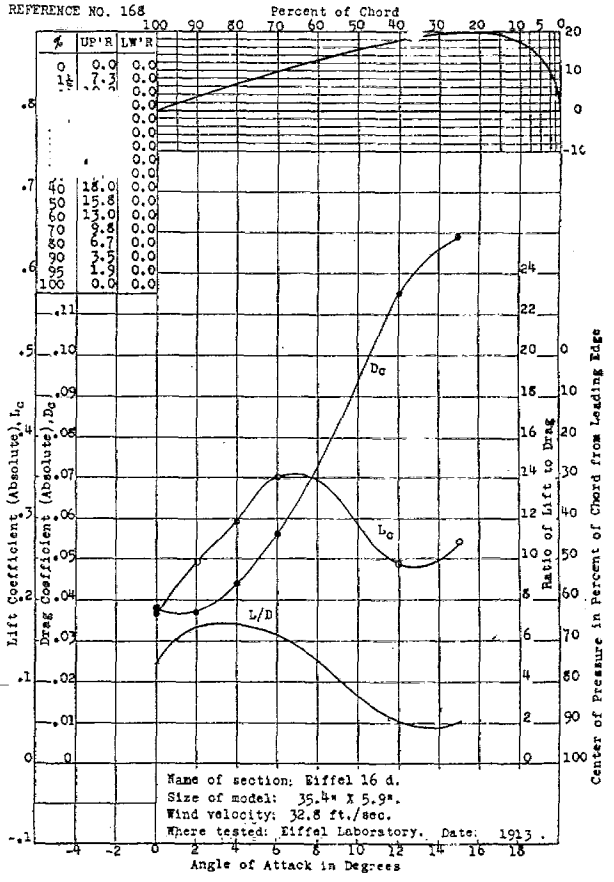

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 3.1 | 0.0 |
| 2½ | 5.1 | 0.0 |
| 5 | 7.9 | 0.0 |
| 7½ | 9.8 | 0.0 |
| 10 | 11.2 | 0.0 |
| 15 | 12.8 | 0.0 |
| 20 | 13.3 | 0.0 |
| 30 | 13.1 | 0.0 |
| 40 | 12.0 | 0.0 |
| 50 | 10.3 | 0.0 |
| 60 | 8.5 | 0.0 |
| 70 | 6.4 | 0.0 |
| 80 | 4.4 | 0.0 |
| 90 | 2.4 | 0.0 |
| 95 | 1.4 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 167



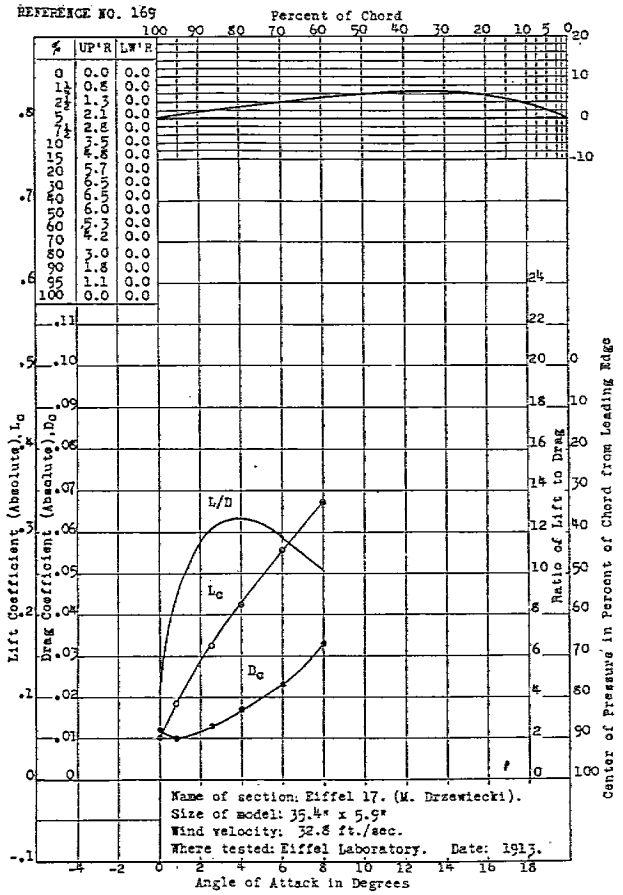

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 4.8 | 0.0 |
| 2½ | 7.2 | 0.0 |
| 5 | 10.6 | 0.0 |
| 7½ | 12.8 | 0.0 |
| 10 | 14.4 | 0.0 |
| 15 | 16.1 | 0.0 |
| 20 | 16.7 | 0.0 |
| 30 | 16.1 | 0.0 |
| 40 | 14.7 | 0.0 |
| 50 | 12.9 | 0.0 |
| 60 | 10.7 | 0.0 |
| 70 | 8.0 | 0.0 |
| 80 | 5.3 | 0.0 |
| 90 | 2.8 | 0.0 |
| 95 | 1.6 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 168



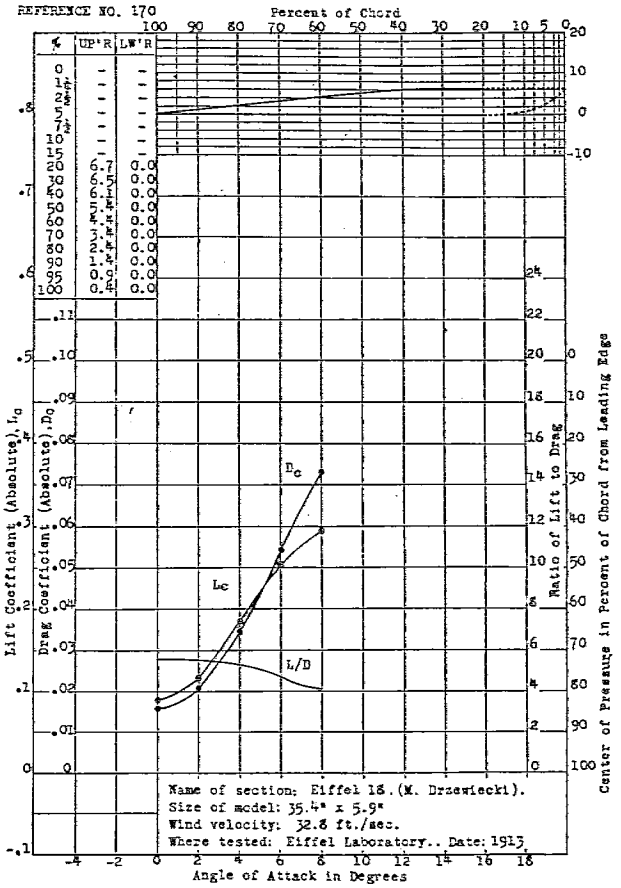

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 7.3 | 0.0 |
| 2½ | [illegible] | 0.0 |
| 5 | [illegible] | 0.0 |
| 7½ | [illegible] | 0.0 |
| 10 | [illegible] | 0.0 |
| 15 | [illegible] | 0.0 |
| 20 | [illegible] | 0.0 |
| 30 | [illegible] | 0.0 |
| 40 | 18.0 | 0.0 |
| 50 | 15.8 | 0.0 |
| 60 | 13.0 | 0.0 |
| 70 | 9.8 | 0.0 |
| 80 | 6.7 | 0.0 |
| 90 | 3.5 | 0.0 |
| 95 | 1.9 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 169



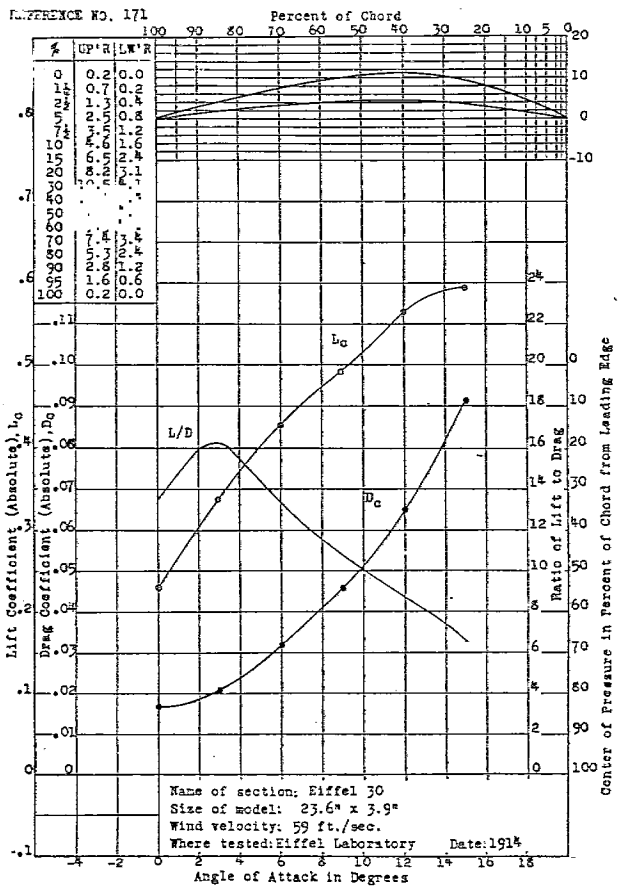

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 0.8 | 0.0 |
| 2½ | 1.3 | 0.0 |
| 5 | 2.1 | 0.0 |
| 7½ | 2.8 | 0.0 |
| 10 | 3.5 | 0.0 |
| 15 | 4.8 | 0.0 |
| 20 | 5.7 | 0.0 |
| 30 | 6.5 | 0.0 |
| 40 | 6.5 | 0.0 |
| 50 | 6.0 | 0.0 |
| 60 | 5.3 | 0.0 |
| 70 | 4.2 | 0.0 |
| 80 | 3.0 | 0.0 |
| 90 | 1.8 | 0.0 |
| 95 | 1.1 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 170



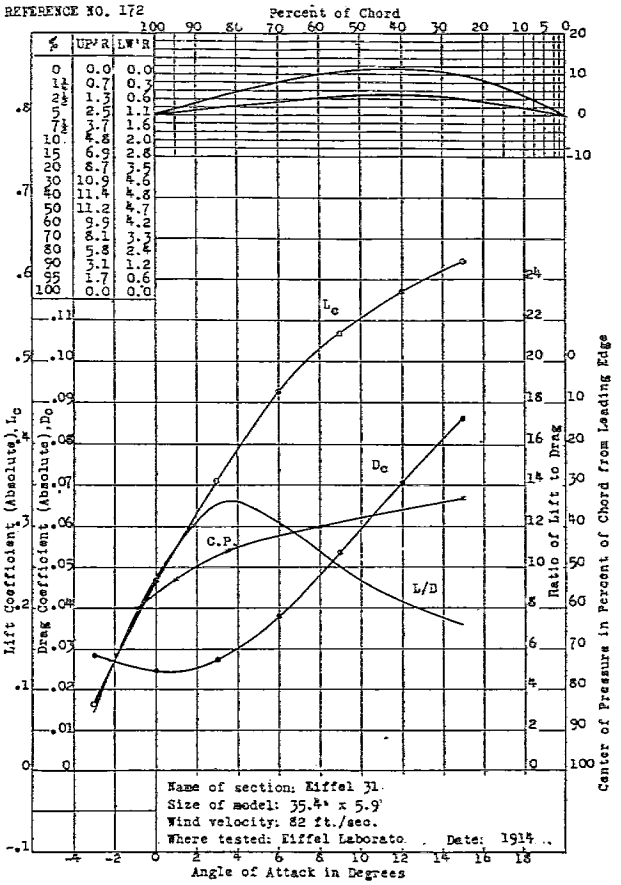

| % | UP'R | LW'R |
|---|---|---|
| 0 | - | - |
| 1¼ | - | - |
| 2½ | - | - |
| 5 | - | - |
| 7½ | - | - |
| 10 | - | - |
| 15 | - | - |
| 20 | 6.7 | 0.0 |
| 30 | 6.5 | 0.0 |
| 40 | 6.1 | 0.0 |
| 50 | 5.4 | 0.0 |
| 60 | 4.4 | 0.0 |
| 70 | 3.4 | 0.0 |
| 80 | 2.4 | 0.0 |
| 90 | 1.4 | 0.0 |
| 95 | 0.9 | 0.0 |
| 100 | 0.4 | 0.0 |

REFERENCE NO. 171



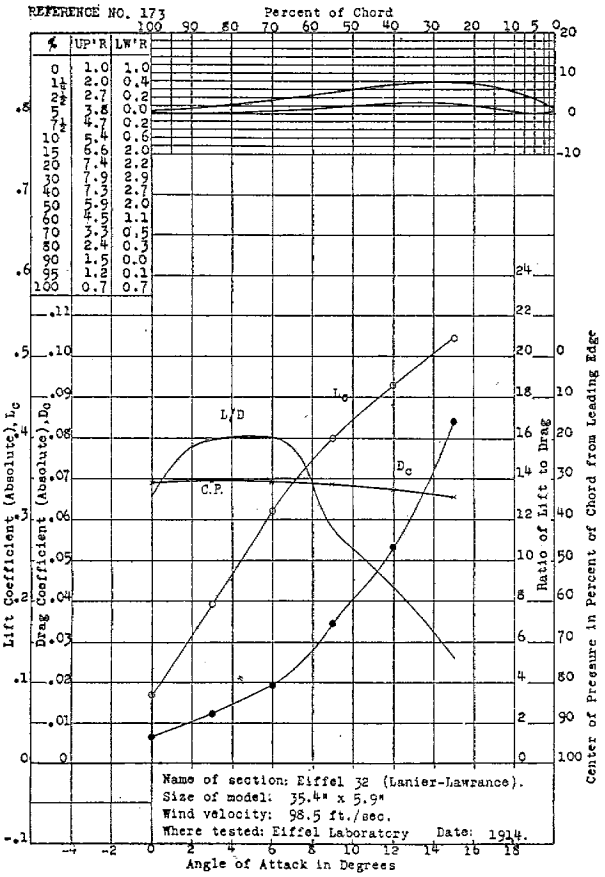

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.2 | 0.0 |
| 1¼ | 0.7 | 0.2 |
| 2½ | 1.3 | 0.4 |
| 5 | 2.5 | 0.8 |
| 7½ | 3.5 | 1.2 |
| 10 | 4.6 | 1.6 |
| 15 | 6.5 | 2.4 |
| 20 | 8.2 | 3.1 |
| 30 | [illegible] | [illegible] |
| 40 | [illegible] | [illegible] |
| 50 | [illegible] | [illegible] |
| 60 | [illegible] | [illegible] |
| 70 | 7.4 | 3.4 |
| 80 | 5.3 | 2.4 |
| 90 | 2.8 | 1.2 |
| 95 | 1.6 | 0.6 |
| 100 | 0.2 | 0.0 |

REFERENCE NO. 172



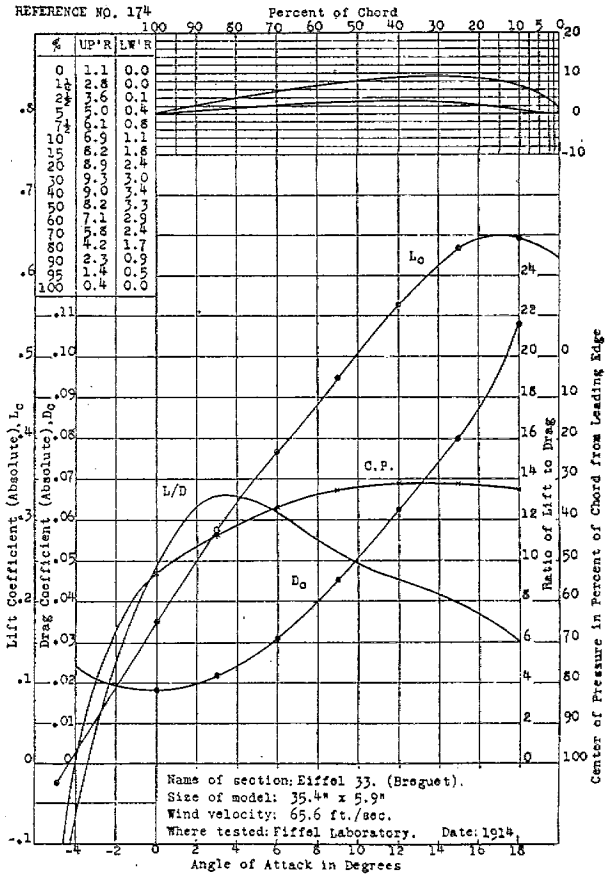

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 0.7 | 0.3 |
| 2½ | 1.3 | 0.6 |
| 5 | 2.5 | 1.1 |
| 7½ | 3.7 | 1.6 |
| 10 | 4.8 | 2.0 |
| 15 | 6.9 | 2.8 |
| 20 | 8.7 | 3.5 |
| 30 | 10.9 | 4.6 |
| 40 | 11.4 | 4.8 |
| 50 | 11.2 | 4.7 |
| 60 | 9.9 | 4.2 |
| 70 | 8.1 | 3.3 |
| 80 | 5.8 | 2.4 |
| 90 | 3.1 | 1.2 |
| 95 | 1.7 | 0.6 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 173



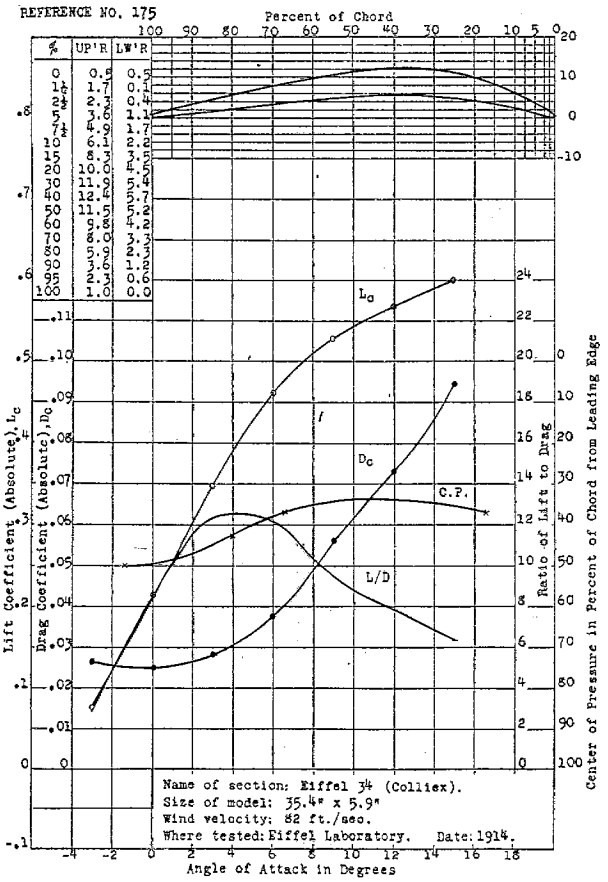

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 1.0 |
| 1¼ | 2.0 | 0.4 |
| 2½ | 2.7 | 0.2 |
| 5 | 3.8 | 0.0 |
| 7½ | 4.7 | 0.2 |
| 10 | 5.4 | 0.6 |
| 15 | 6.6 | 2.0 |
| 20 | 7.4 | 2.2 |
| 30 | 7.9 | 2.9 |
| 40 | 7.3 | 2.7 |
| 50 | 5.9 | 2.0 |
| 60 | 4.5 | 1.1 |
| 70 | 3.3 | 0.5 |
| 80 | 2.4 | 0.3 |
| 90 | 1.5 | 0.0 |
| 95 | 1.2 | 0.1 |
| 100 | 0.7 | 0.7 |

REFERENCE NO. 174



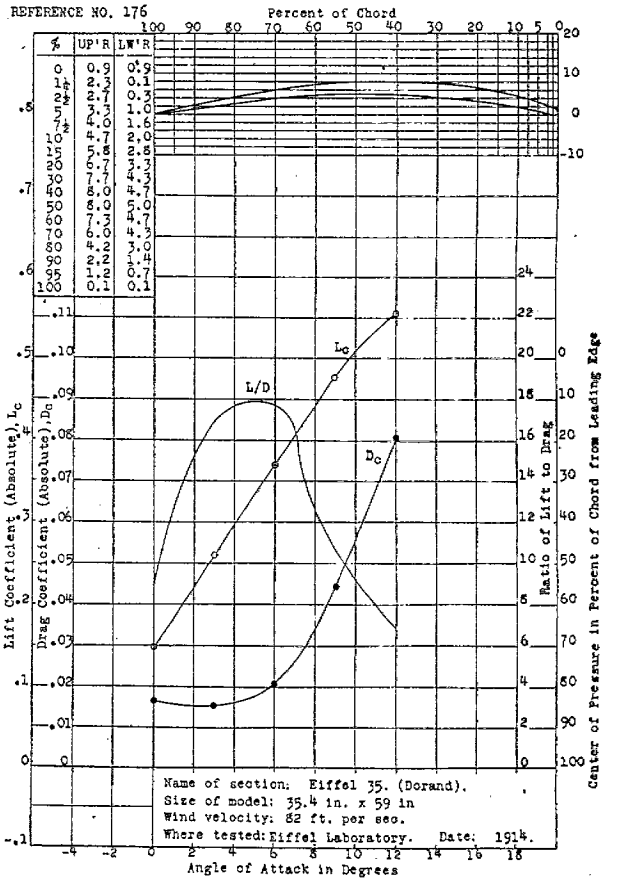

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.1 | 0.0 |
| 1¼ | 2.8 | 0.0 |
| 2½ | 3.6 | 0.1 |
| 5 | 5.0 | 0.4 |
| 7½ | 6.1 | 0.8 |
| 10 | 6.9 | 1.1 |
| 15 | 8.2 | 1.8 |
| 20 | 8.9 | 2.4 |
| 30 | 9.3 | 3.0 |
| 40 | 9.0 | 3.4 |
| 50 | 8.2 | 3.3 |
| 60 | 7.1 | 2.9 |
| 70 | 5.8 | 2.4 |
| 80 | 4.2 | 1.7 |
| 90 | 2.3 | 0.9 |
| 95 | 1.4 | 0.5 |
| 100 | 0.4 | 0.0 |

REFERENCE NO. 175



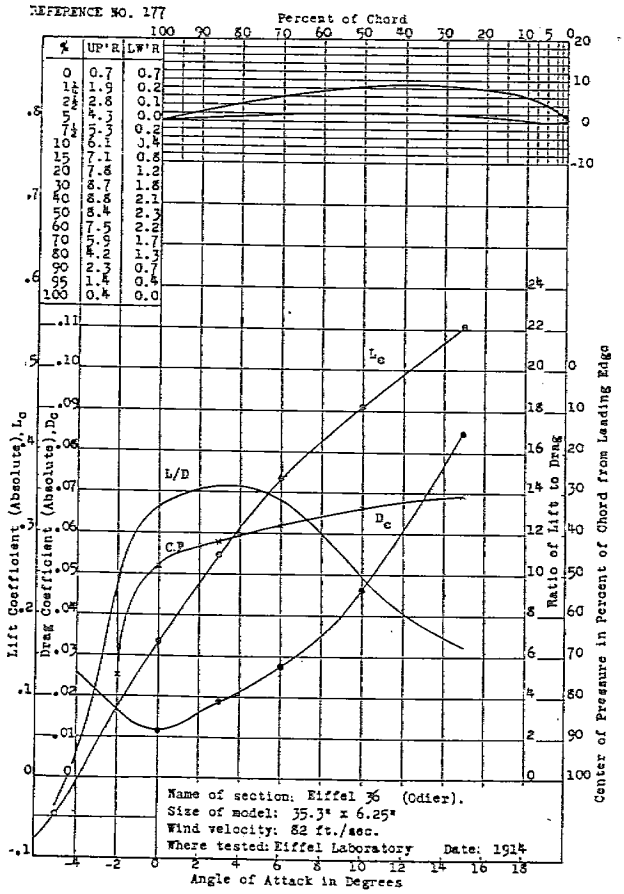

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.5 | 0.5 |
| 1¼ | 1.7 | 0.1 |
| 2½ | 2.3 | 0.4 |
| 5 | 3.6 | 1.1 |
| 7½ | 4.9 | 1.7 |
| 10 | 6.1 | 2.2 |
| 15 | 8.3 | 3.5 |
| 20 | 10.0 | 4.5 |
| 30 | 11.9 | 5.4 |
| 40 | 12.4 | 5.7 |
| 50 | 11.5 | 5.2 |
| 60 | 9.8 | 4.2 |
| 70 | 8.0 | 3.3 |
| 80 | 5.9 | 2.3 |
| 90 | 3.6 | 1.2 |
| 95 | 2.3 | 0.6 |
| 100 | 1.0 | 0.0 |

REFERENCE NO. 176



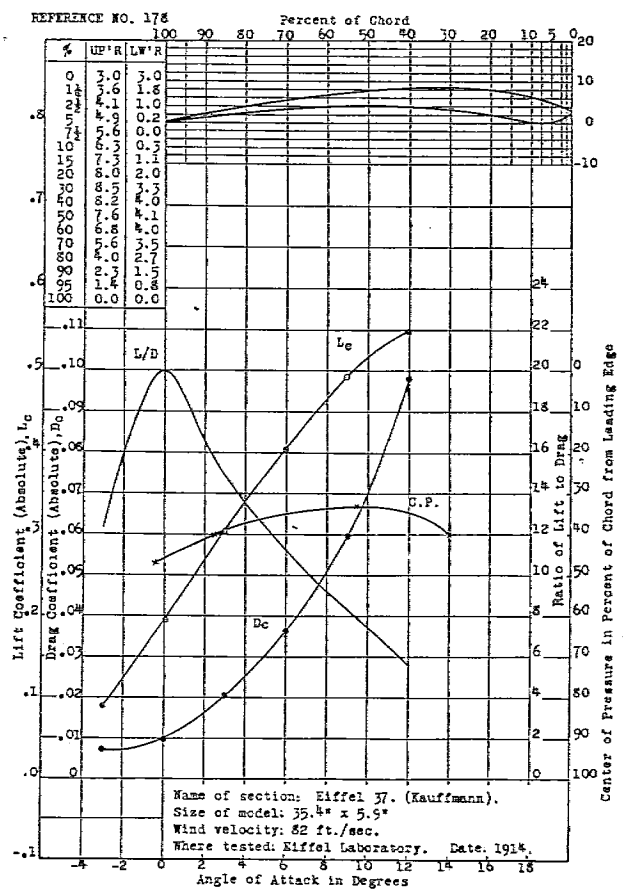

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.9 | 0.9 |
| 1¼ | 2.3 | 0.1 |
| 2½ | 2.7 | 0.3 |
| 5 | 3.3 | 1.0 |
| 7½ | 4.0 | 1.6 |
| 10 | 4.7 | 2.0 |
| 15 | 5.8 | 2.8 |
| 20 | 6.7 | 3.3 |
| 30 | 7.7 | 4.3 |
| 40 | 8.0 | 4.7 |
| 50 | 8.0 | 5.0 |
| 60 | 7.3 | 4.7 |
| 70 | 6.0 | 4.3 |
| 80 | 4.2 | 3.0 |
| 90 | 2.2 | 1.4 |
| 95 | 1.2 | 0.7 |
| 100 | 0.1 | 0.1 |

REFERENCE NO. 177



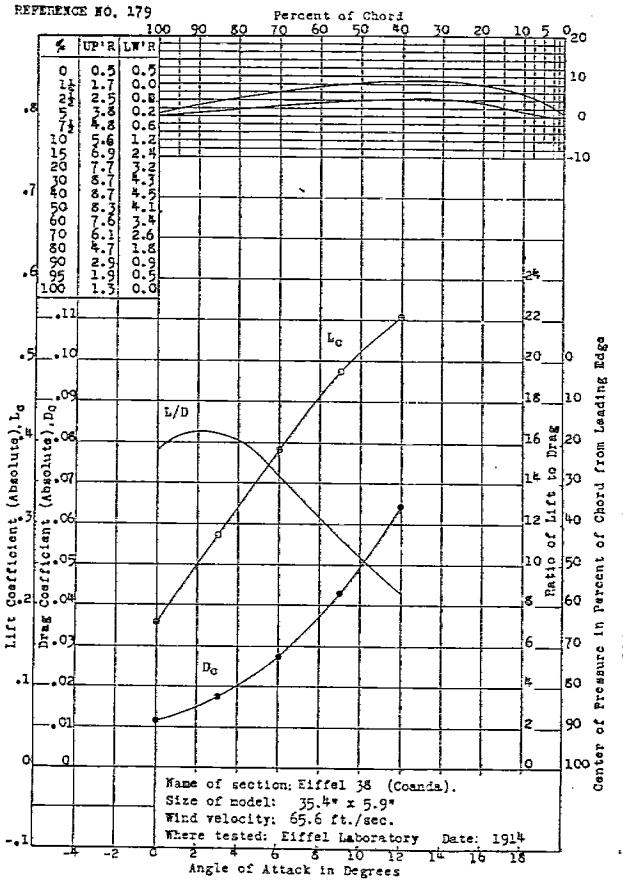

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 1.9 | 0.2 |
| 2½ | 2.8 | 0.1 |
| 5 | 4.3 | 0.0 |
| 7½ | 5.5 | 0.2 |
| 10 | 6.1 | 0.4 |
| 15 | 7.1 | 0.8 |
| 20 | 7.8 | 1.2 |
| 30 | 8.7 | 1.8 |
| 40 | 8.8 | 2.1 |
| 50 | 8.4 | 2.3 |
| 60 | 7.5 | 2.2 |
| 70 | 5.8 | 1.7 |
| 80 | 4.2 | 1.3 |
| 90 | 2.3 | 0.7 |
| 95 | 1.4 | 0.4 |
| 100 | 0.4 | 0.0 |

REFERENCE NO. 178



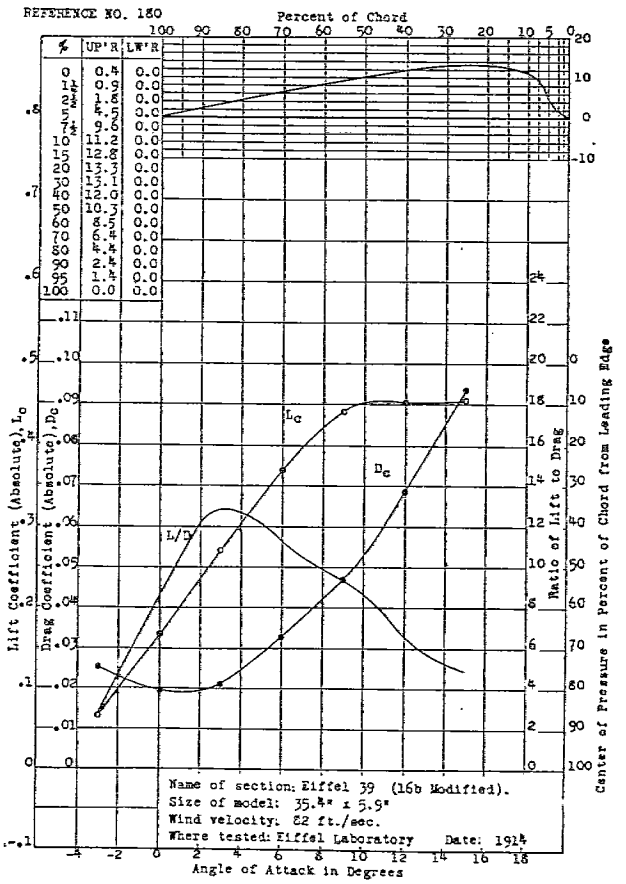

| % | UP'R | LW'R |
|---|---|---|
| 0 | 3.0 | 3.0 |
| 1¼ | 3.6 | 1.8 |
| 2½ | 4.1 | 1.0 |
| 5 | 4.9 | 0.2 |
| 7½ | 5.6 | 0.0 |
| 10 | 6.3 | 0.3 |
| 15 | 7.3 | 1.1 |
| 20 | 8.0 | 2.0 |
| 30 | 8.5 | 3.3 |
| 40 | 8.2 | 4.0 |
| 50 | 7.6 | 4.1 |
| 60 | 6.8 | 4.0 |
| 70 | 5.6 | 3.5 |
| 80 | 4.0 | 2.7 |
| 90 | 2.3 | 1.5 |
| 95 | 1.4 | 0.8 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 179



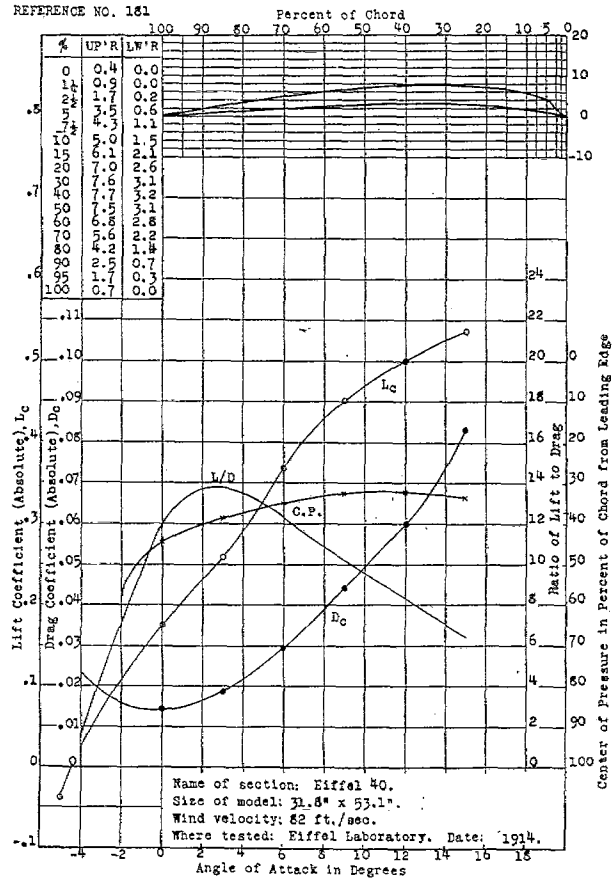

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.5 | 0.5 |
| 1¼ | 1.7 | 0.0 |
| 2½ | 2.5 | 0.4 |
| 5 | 3.8 | 0.2 |
| 7½ | 4.8 | 0.6 |
| 10 | 5.6 | 1.2 |
| 15 | 6.9 | 2.4 |
| 20 | 7.7 | 3.2 |
| 30 | 8.7 | 4.3 |
| 40 | 8.7 | 4.6 |
| 50 | 8.3 | 4.1 |
| 60 | 7.6 | 3.4 |
| 70 | 6.1 | 2.6 |
| 80 | 4.7 | 1.8 |
| 90 | 2.9 | 0.9 |
| 95 | 1.9 | 0.5 |
| 100 | 1.3 | 0.0 |

REFERENCE NO. 180



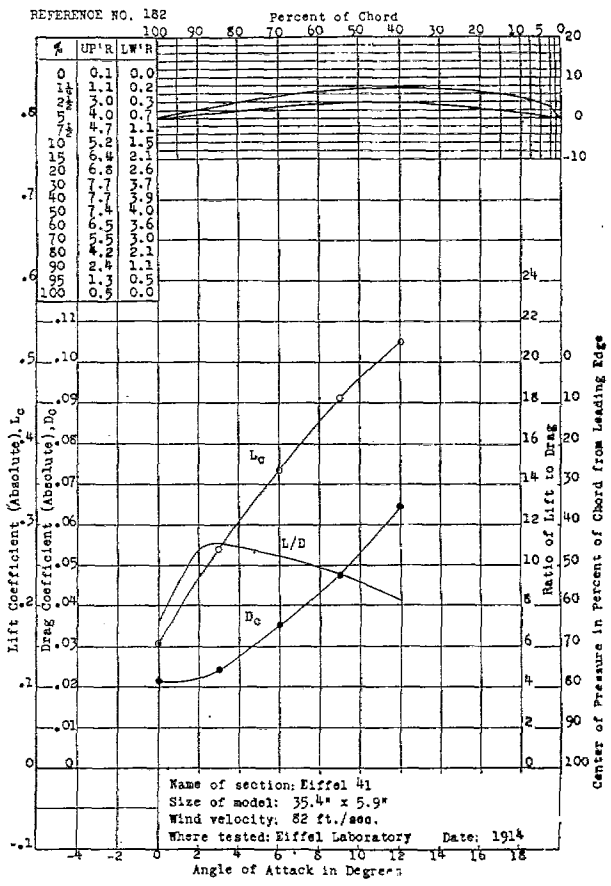

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.4 | 0.0 |
| 1¼ | 0.9 | 0.0 |
| 2½ | 1.8 | 0.0 |
| 5 | 4.5 | 0.0 |
| 7½ | 9.8 | 0.0 |
| 10 | 11.2 | 0.0 |
| 15 | 12.8 | 0.0 |
| 20 | 13.3 | 0.0 |
| 30 | 13.1 | 0.0 |
| 40 | 12.0 | 0.0 |
| 50 | 10.3 | 0.0 |
| 60 | 8.5 | 0.0 |
| 70 | 6.4 | 0.0 |
| 80 | 4.4 | 0.0 |
| 90 | 2.4 | 0.0 |
| 95 | 1.4 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 181



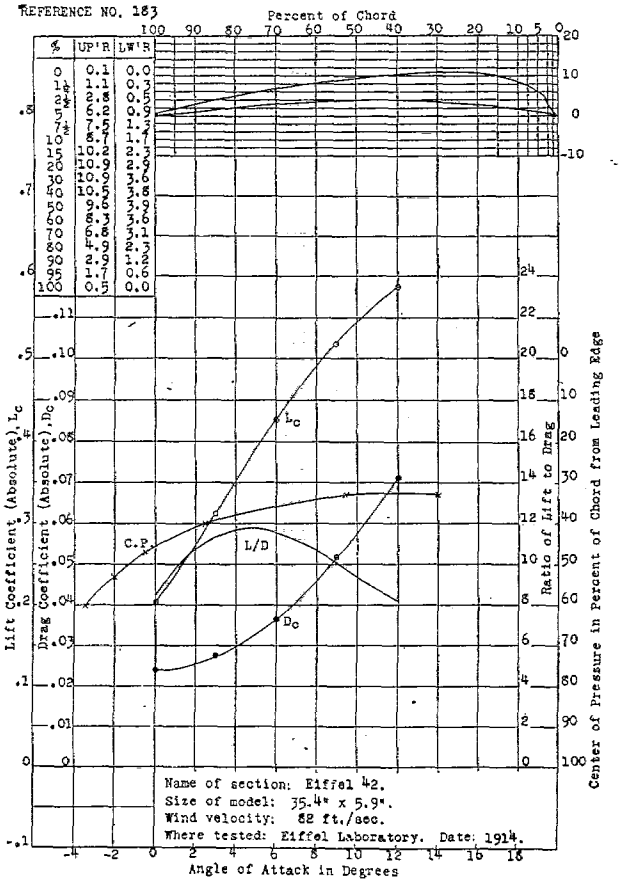

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.4 | 0.0 |
| 1¼ | 0.9 | 0.0 |
| 2½ | 1.7 | 0.2 |
| 5 | 3.5 | 0.6 |
| 7½ | 4.3 | 1.1 |
| 10 | 5.0 | 1.5 |
| 15 | 6.1 | 2.1 |
| 20 | 7.0 | 2.6 |
| 30 | 7.6 | 3.1 |
| 40 | 7.7 | 3.2 |
| 50 | 7.5 | 3.1 |
| 60 | 6.8 | 2.8 |
| 70 | 5.6 | 2.2 |
| 80 | 4.2 | 1.4 |
| 90 | 2.5 | 0.7 |
| 95 | 1.7 | 0.3 |
| 100 | 0.7 | 0.0 |

REFERENCE NO. 182



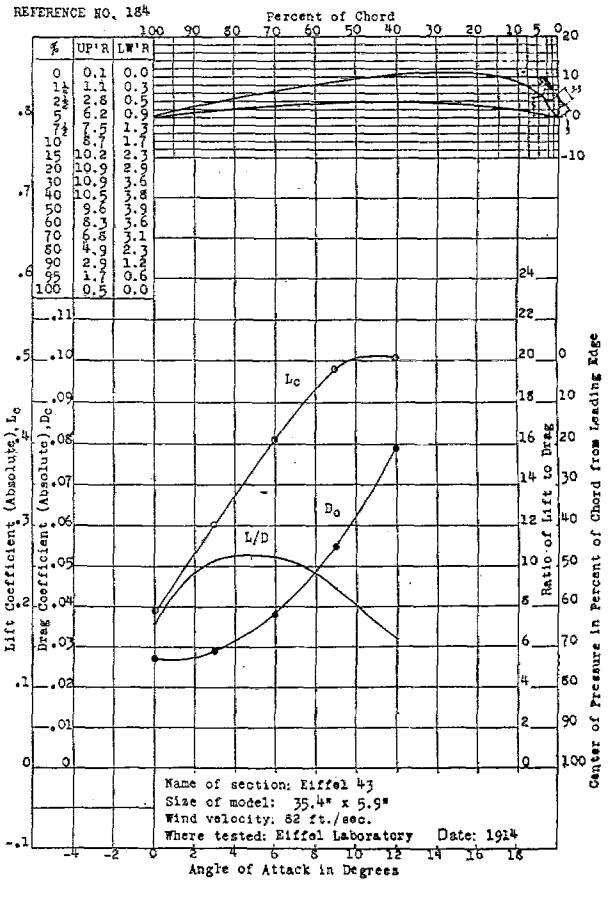

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.1 | 0.0 |
| 1¼ | 1.1 | 0.2 |
| 2½ | 3.0 | 0.3 |
| 5 | 4.0 | 0.7 |
| 7½ | 4.7 | 1.1 |
| 10 | 5.2 | 1.5 |
| 15 | 6.4 | 2.1 |
| 20 | 6.8 | 2.6 |
| 30 | 7.7 | 3.7 |
| 40 | 7.7 | 3.9 |
| 50 | 7.4 | 4.0 |
| 60 | 6.5 | 3.6 |
| 70 | 5.5 | 3.0 |
| 80 | 4.2 | 2.1 |
| 90 | 2.4 | 1.1 |
| 95 | 1.3 | 0.5 |
| 100 | 0.5 | 0.0 |

REFERENCE NO. 183



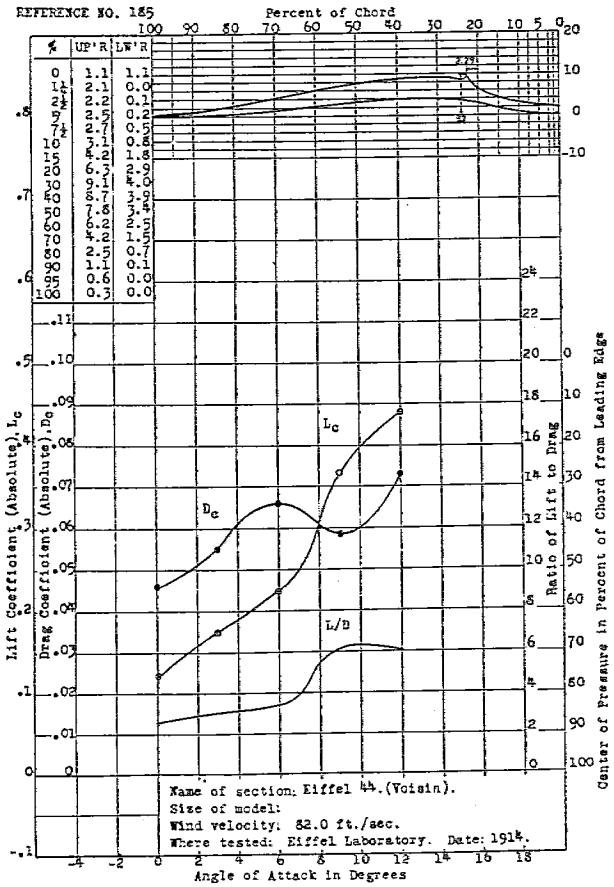

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.1 | 0.0 |
| 1¼ | 1.1 | 0.3 |
| 2½ | 2.8 | 0.5 |
| 5 | 6.2 | 0.9 |
| 7½ | 7.5 | 1.3 |
| 10 | 8.7 | 1.7 |
| 15 | 10.2 | 2.3 |
| 20 | 10.9 | 2.9 |
| 30 | 10.9 | 3.6 |
| 40 | 10.5 | 3.8 |
| 50 | 9.6 | 3.9 |
| 60 | 8.3 | 3.6 |
| 70 | 6.8 | 3.1 |
| 80 | 4.9 | 2.3 |
| 90 | 2.9 | 1.2 |
| 95 | 1.7 | 0.6 |
| 100 | 0.5 | 0.0 |

REFERENCE NO. 184



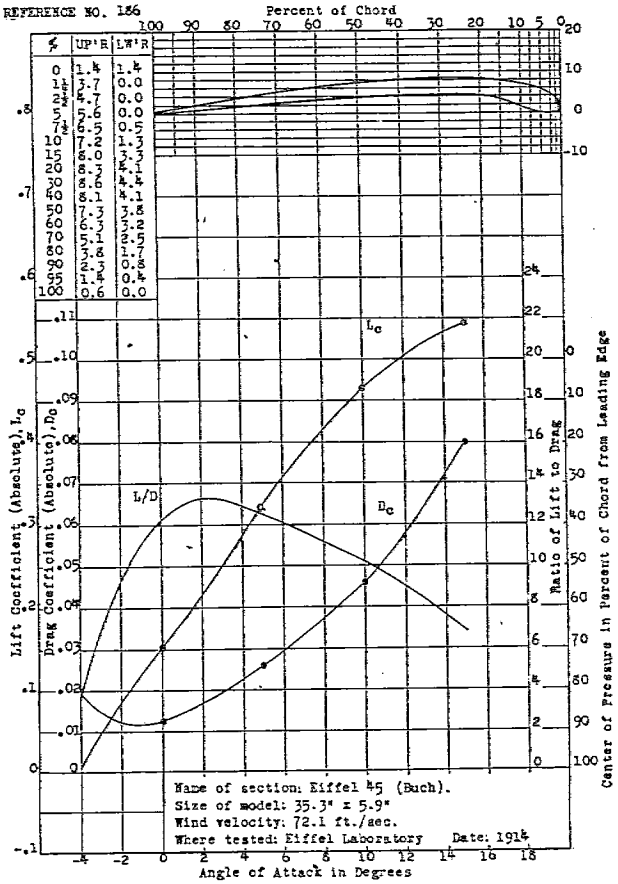

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.1 | 0.0 |
| 1¼ | 1.1 | 0.3 |
| 2½ | 2.8 | 0.5 |
| 5 | 6.2 | 0.9 |
| 7½ | 7.5 | 1.3 |
| 10 | 8.7 | 1.7 |
| 15 | 10.2 | 2.3 |
| 20 | 10.9 | 2.9 |
| 30 | 10.9 | 3.6 |
| 40 | 10.5 | 3.8 |
| 50 | 9.6 | 3.9 |
| 60 | 8.3 | 3.6 |
| 70 | 6.8 | 3.1 |
| 80 | 4.9 | 2.3 |
| 90 | 2.9 | 1.2 |
| 95 | 1.7 | 0.6 |
| 100 | 0.5 | 0.0 |

REFERENCE NO. 185



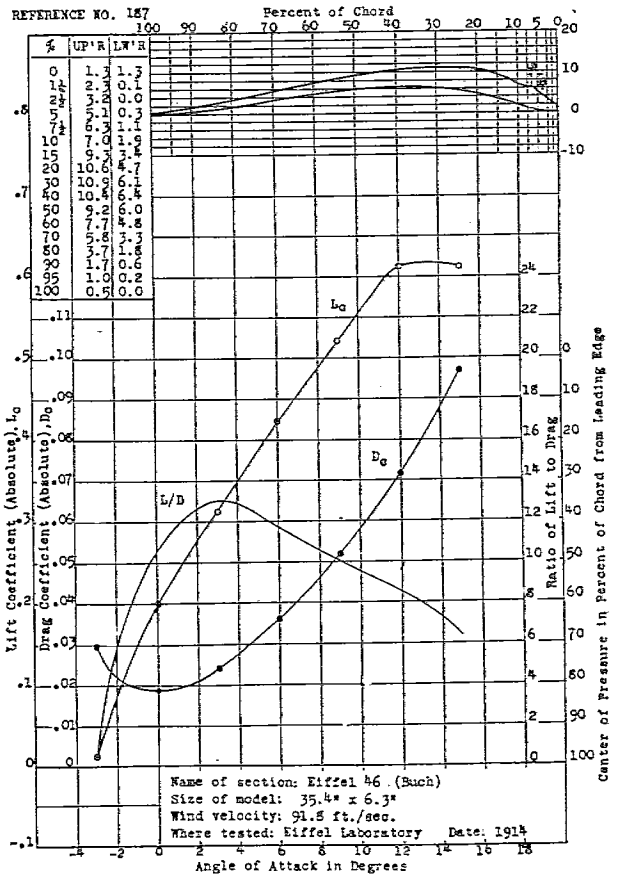

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.1 | 1.1 |
| 1¼ | 2.1 | 0.0 |
| 2½ | 2.2 | 0.1 |
| 5 | 2.5 | 0.2 |
| 7½ | 2.7 | 0.5 |
| 10 | 3.1 | 0.8 |
| 15 | 4.2 | 1.8 |
| 20 | 6.3 | 2.9 |
| 30 | 9.3 | 4.0 |
| 40 | 8.7 | 3.9 |
| 50 | 7.8 | 3.4 |
| 60 | 6.2 | 2.5 |
| 70 | 4.2 | 1.5 |
| 80 | 2.5 | 0.7 |
| 90 | 1.1 | 0.1 |
| 95 | 0.6 | 0.0 |
| 100 | 0.3 | 0.0 |

REFERENCE NO. 186



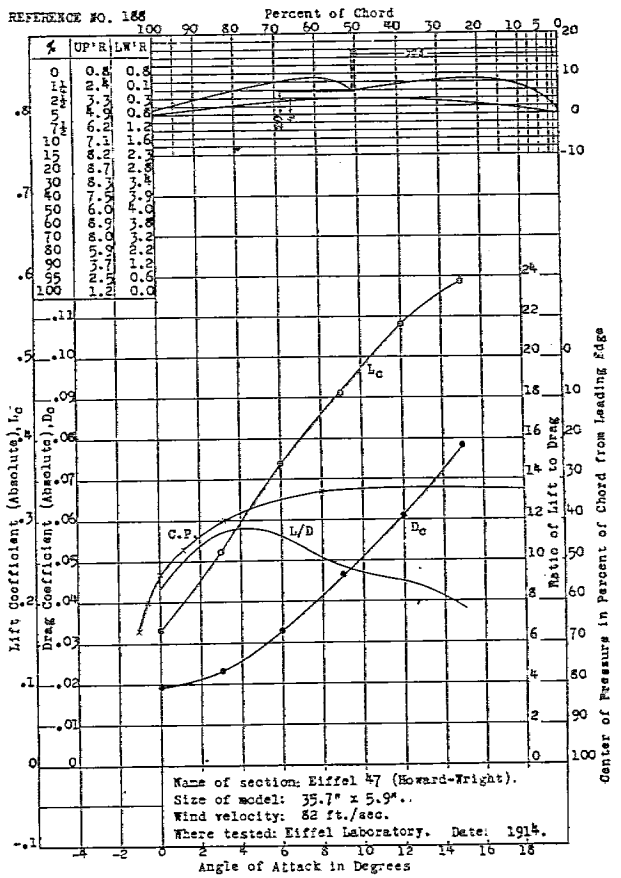

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.4 | 1.4 |
| 1¼ | 3.7 | 0.0 |
| 2½ | 4.7 | 0.0 |
| 5 | 5.6 | 0.0 |
| 7½ | 6.5 | 0.5 |
| 10 | 7.2 | 1.3 |
| 15 | 8.0 | 3.3 |
| 20 | 8.3 | 4.1 |
| 30 | 8.6 | 4.4 |
| 40 | 8.1 | 4.1 |
| 50 | 7.3 | 3.8 |
| 60 | 6.3 | 3.2 |
| 70 | 5.1 | 2.5 |
| 80 | 3.8 | 1.7 |
| 90 | 2.3 | 0.8 |
| 95 | 1.4 | 0.4 |
| 100 | 0.6 | 0.0 |

REFERENCE NO. 187



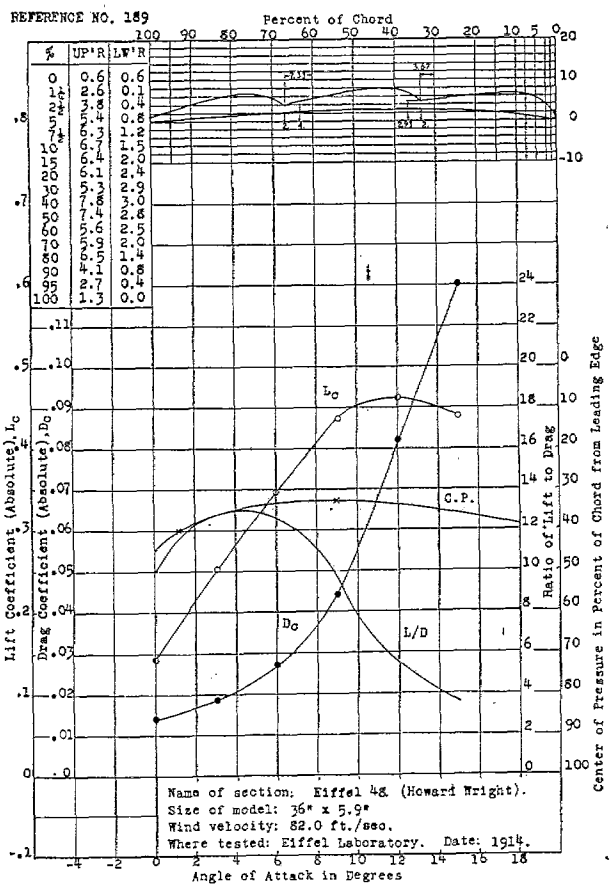

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.3 | 1.3 |
| 1¼ | 2.3 | 0.1 |
| 2½ | 3.2 | 0.0 |
| 5 | 5.1 | 0.3 |
| 7½ | 6.3 | 1.1 |
| 10 | 7.0 | 1.9 |
| 15 | 9.3 | 3.4 |
| 20 | 10.6 | 4.7 |
| 30 | 10.9 | 6.1 |
| 40 | 10.4 | 6.4 |
| 50 | 9.2 | 6.0 |
| 60 | 7.7 | 4.8 |
| 70 | 5.8 | 3.3 |
| 80 | 3.7 | 1.8 |
| 90 | 1.7 | 0.6 |
| 95 | 1.0 | 0.2 |
| 100 | 0.5 | 0.0 |

REFERENCE NO. 188



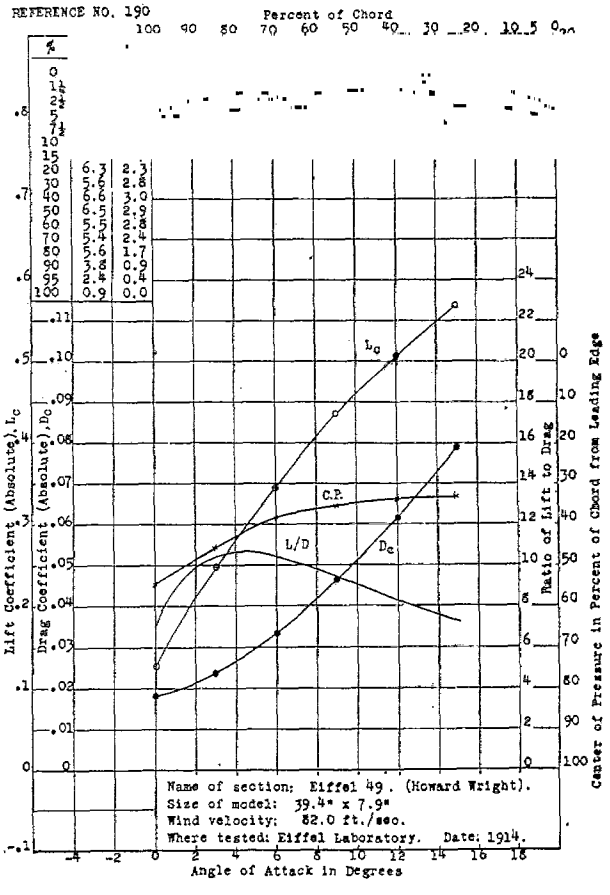

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.8 |
| 1¼ | 2.4 | 0.1 |
| 2½ | 3.3 | 0.3 |
| 5 | 4.9 | 0.8 |
| 7½ | 6.2 | 1.2 |
| 10 | 7.1 | 1.6 |
| 15 | 8.2 | 2.3 |
| 20 | 8.7 | 2.8 |
| 30 | 8.3 | 3.4 |
| 40 | 7.5 | 3.9 |
| 50 | 6.0 | 4.0 |
| 60 | 6.9 | 3.8 |
| 70 | 8.0 | 3.2 |
| 80 | 5.9 | 2.2 |
| 90 | 3.7 | 1.2 |
| 95 | 2.5 | 0.6 |
| 100 | 1.2 | 0.0 |

REFERENCE NO. 189



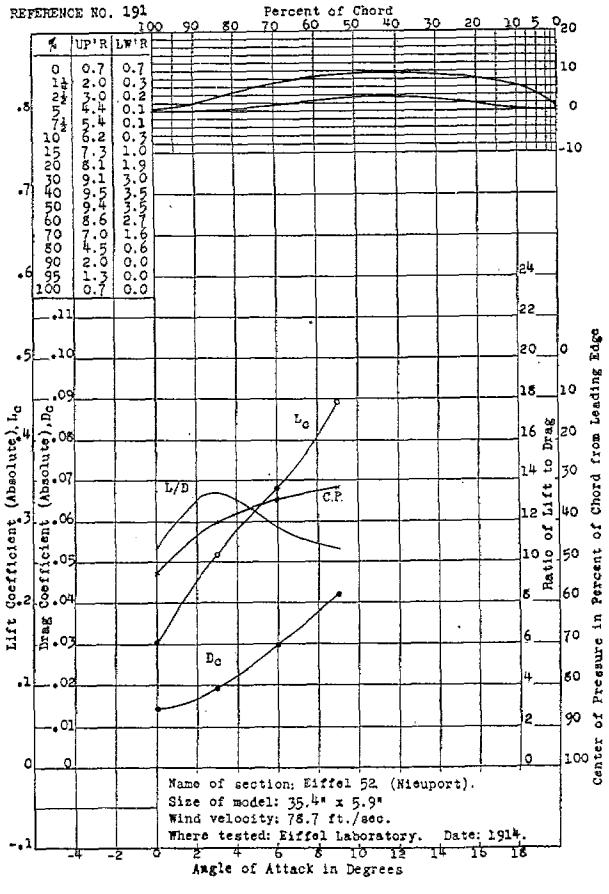

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.6 | 0.6 |
| 1¼ | 2.6 | 0.1 |
| 2½ | 3.8 | 0.4 |
| 5 | 5.4 | 0.8 |
| 7½ | 6.3 | 1.2 |
| 10 | 6.7 | 1.5 |
| 15 | 6.4 | 2.0 |
| 20 | 6.1 | 2.4 |
| 30 | 5.3 | 2.9 |
| 40 | 7.8 | 3.0 |
| 50 | 7.4 | 2.8 |
| 60 | 5.6 | 2.5 |
| 70 | 5.9 | 2.0 |
| 80 | 6.5 | 1.4 |
| 90 | 4.1 | 0.8 |
| 95 | 2.7 | 0.4 |
| 100 | 1.3 | 0.0 |

REFERENCE NO. 190



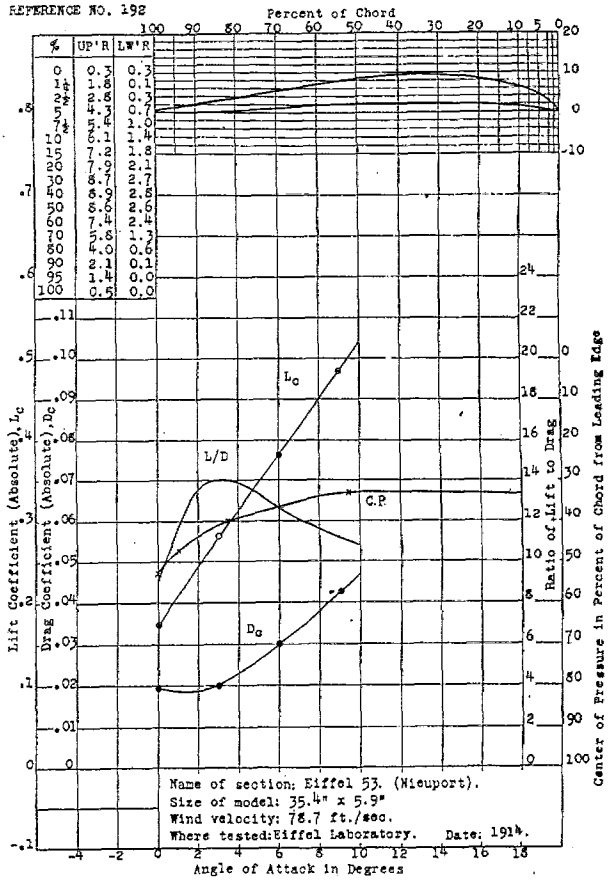

| % | UP'R | LW'R |
|---|---|---|
| 0 | | |
| 1¼ | | |
| 2½ | | |
| 5 | | |
| 7½ | | |
| 10 | | |
| 15 | | |
| 20 | 6.3 | 2.3 |
| 30 | 5.9 | 2.8 |
| 40 | 6.6 | 3.0 |
| 50 | 6.5 | 2.9 |
| 60 | 5.5 | 2.8 |
| 70 | 5.4 | 2.4 |
| 80 | 5.6 | 1.7 |
| 90 | 3.8 | 0.9 |
| 95 | 2.4 | 0.4 |
| 100 | 0.9 | 0.0 |

REFERENCE NO. 191



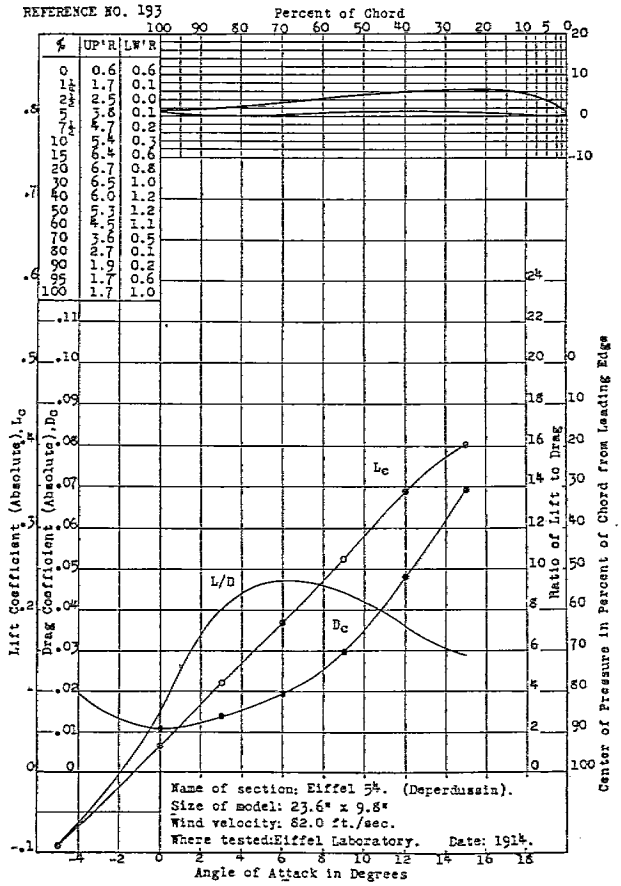

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 2.0 | 0.3 |
| 2½ | 3.0 | 0.2 |
| 5 | 4.4 | 0.1 |
| 7½ | 5.4 | 0.1 |
| 10 | 6.2 | 0.3 |
| 15 | 7.3 | 1.0 |
| 20 | 8.1 | 1.9 |
| 30 | 9.1 | 3.0 |
| 40 | 9.5 | 3.5 |
| 50 | 9.4 | 3.5 |
| 60 | 8.6 | 2.7 |
| 70 | 7.0 | 1.6 |
| 80 | 4.5 | 0.6 |
| 90 | 2.0 | 0.0 |
| 95 | 1.3 | 0.0 |
| 100 | 0.7 | 0.0 |

REFERENCE NO. 192



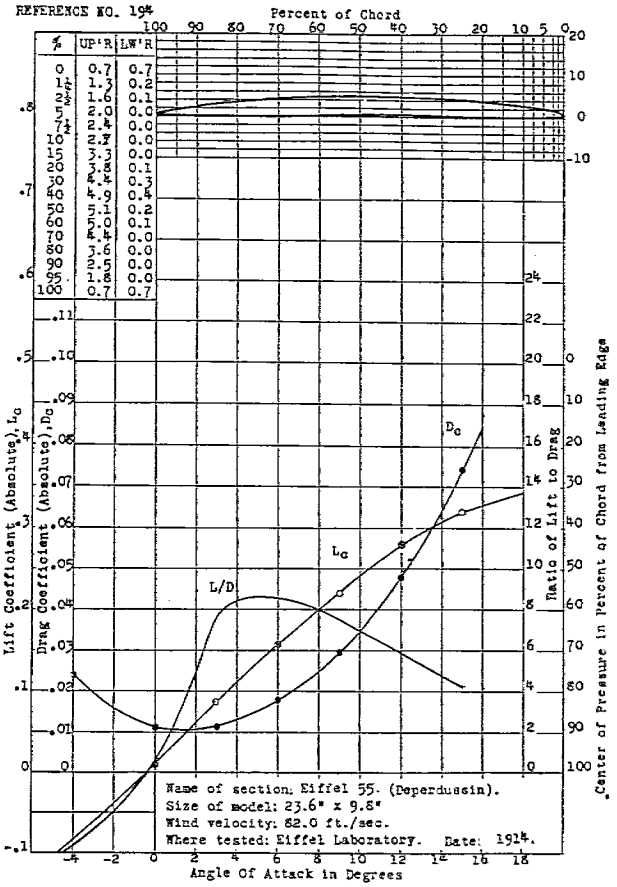

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.3 | 0.3 |
| 1¼ | 1.8 | 0.1 |
| 2½ | 2.8 | 0.3 |
| 5 | 4.3 | 0.7 |
| 7½ | 5.4 | 1.0 |
| 10 | 6.1 | 1.4 |
| 15 | 7.2 | 1.8 |
| 20 | 7.9 | 2.1 |
| 30 | 8.7 | 2.7 |
| 40 | 8.9 | 2.8 |
| 50 | 8.6 | 2.6 |
| 60 | 7.4 | 2.4 |
| 70 | 5.8 | 1.3 |
| 80 | 4.0 | 0.6 |
| 90 | 2.1 | 0.1 |
| 95 | 1.4 | 0.0 |
| 100 | 0.5 | 0.0 |

REFERENCE NO. 193



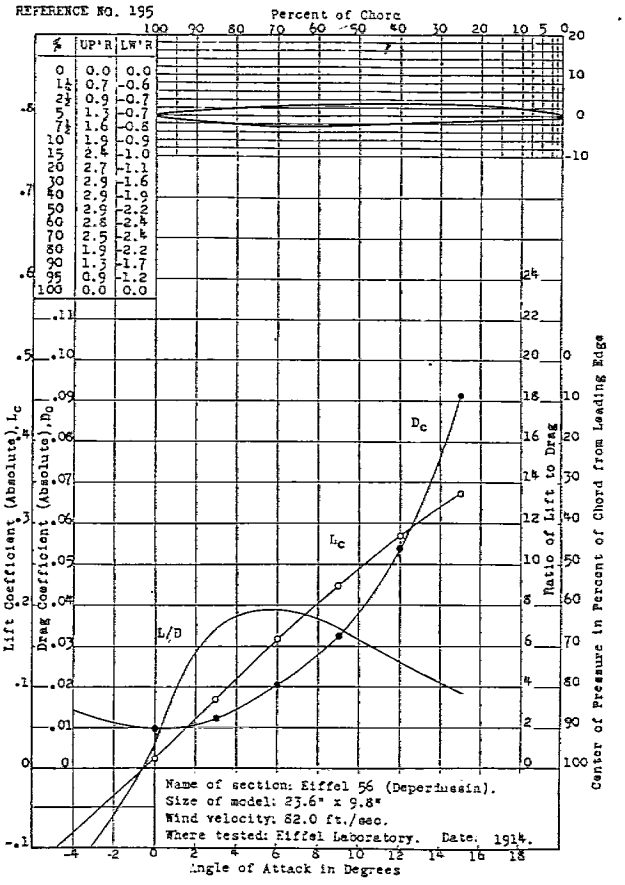

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.6 | 0.6 |
| 1¼ | 1.7 | 0.1 |
| 2½ | 2.5 | 0.0 |
| 5 | 3.8 | 0.1 |
| 7½ | 4.7 | 0.2 |
| 10 | 5.4 | 0.3 |
| 15 | 6.4 | 0.6 |
| 20 | 6.7 | 0.8 |
| 30 | 6.5 | 1.0 |
| 40 | 6.0 | 1.2 |
| 50 | 5.3 | 1.2 |
| 60 | 4.5 | 1.1 |
| 70 | 3.6 | 0.5 |
| 80 | 2.7 | 0.1 |
| 90 | 1.9 | 0.2 |
| 95 | 1.7 | 0.6 |
| 100 | 1.7 | 1.0 |

REFERENCE NO. 194



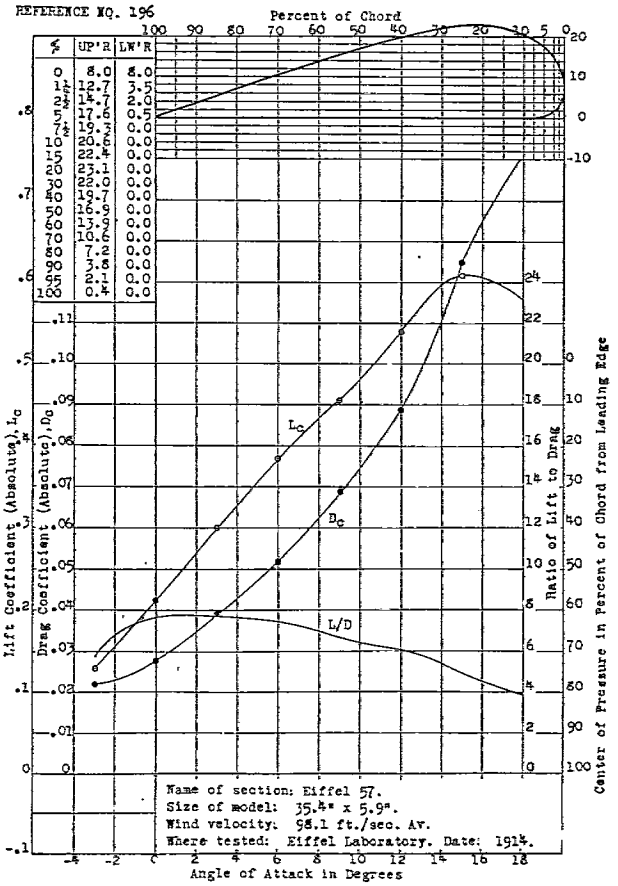

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 1.3 | 0.2 |
| 2½ | 1.6 | 0.1 |
| 5 | 2.0 | 0.0 |
| 7½ | 2.4 | 0.0 |
| 10 | 2.7 | 0.0 |
| 15 | 3.3 | 0.0 |
| 20 | 3.8 | 0.1 |
| 30 | 4.4 | 0.3 |
| 40 | 4.9 | 0.4 |
| 50 | 5.1 | 0.2 |
| 60 | 5.0 | 0.1 |
| 70 | 4.4 | 0.0 |
| 80 | 3.6 | 0.0 |
| 90 | 2.5 | 0.0 |
| 95 | 1.8 | 0.0 |
| 100 | 0.7 | 0.7 |

REFERENCE NO. 195



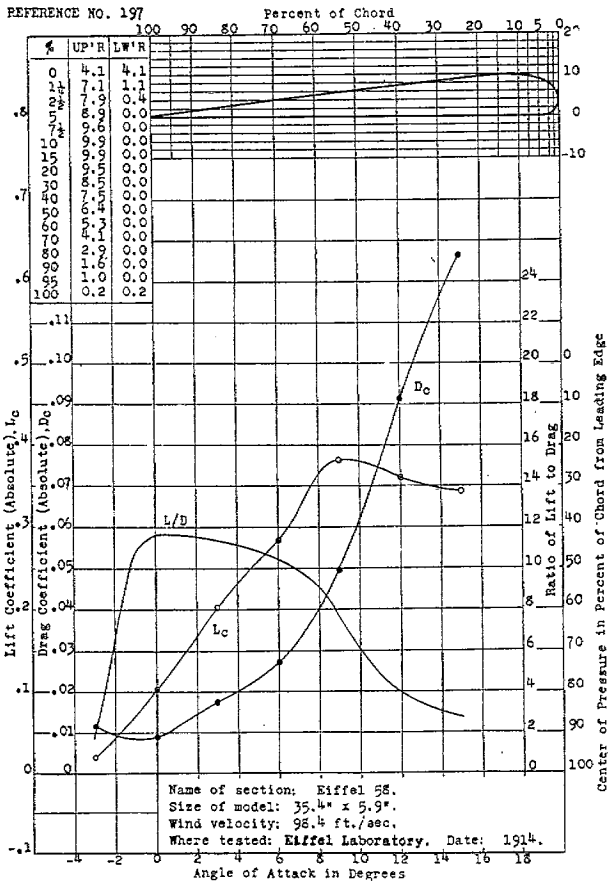

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 0.7 | -0.6 |
| 2½ | 0.9 | -0.7 |
| 5 | 1.3 | -0.7 |
| 7½ | 1.6 | -0.8 |
| 10 | 1.9 | -0.9 |
| 15 | 2.4 | -1.0 |
| 20 | 2.7 | -1.1 |
| 30 | 2.9 | -1.6 |
| 40 | 2.9 | -1.9 |
| 50 | 2.9 | -2.2 |
| 60 | 2.8 | -2.4 |
| 70 | 2.5 | -2.4 |
| 80 | 1.9 | -2.2 |
| 90 | 1.3 | -1.7 |
| 95 | 0.9 | -1.2 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 196



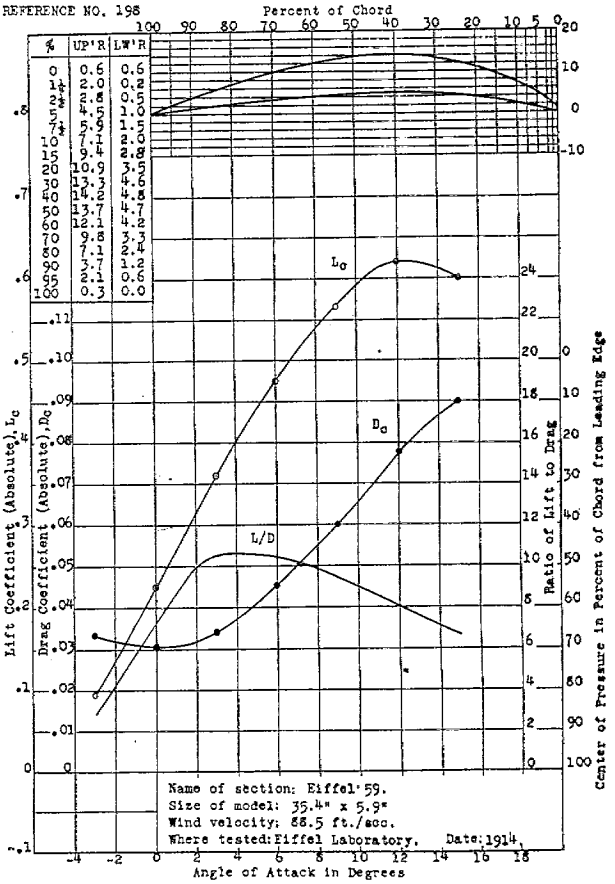

| % | UP'R | LW'R |
|---|---|---|
| 0 | 8.0 | 8.0 |
| 1¼ | 12.7 | 3.5 |
| 2½ | 14.7 | 2.0 |
| 5 | 17.6 | 0.5 |
| 7½ | 19.3 | 0.0 |
| 10 | 20.6 | 0.0 |
| 15 | 22.4 | 0.0 |
| 20 | 23.1 | 0.0 |
| 30 | 22.0 | 0.0 |
| 40 | 19.7 | 0.0 |
| 50 | 16.9 | 0.0 |
| 60 | 13.9 | 0.0 |
| 70 | 10.6 | 0.0 |
| 80 | 7.2 | 0.0 |
| 90 | 3.8 | 0.0 |
| 95 | 2.1 | 0.0 |
| 100 | 0.4 | 0.0 |

REFERENCE NO. 197



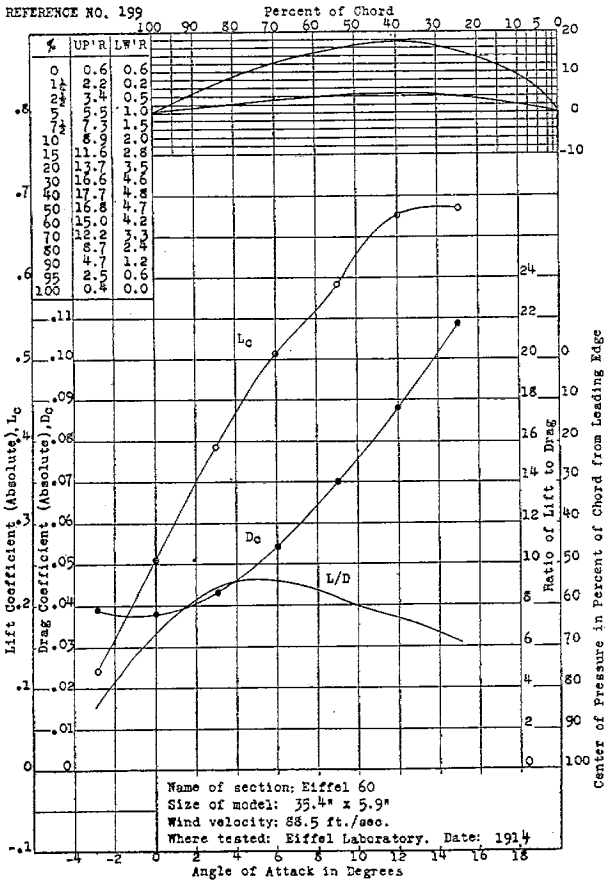

| % | UP'R | LW'R |
|---|---|---|
| 0 | 4.1 | 4.1 |
| 1¼ | 7.1 | 1.1 |
| 2½ | 7.9 | 0.4 |
| 5 | 8.9 | 0.0 |
| 7½ | 9.6 | 0.0 |
| 10 | 9.9 | 0.0 |
| 15 | 9.9 | 0.0 |
| 20 | 9.5 | 0.0 |
| 30 | 8.5 | 0.0 |
| 40 | 7.5 | 0.0 |
| 50 | 6.4 | 0.0 |
| 60 | 5.3 | 0.0 |
| 70 | 4.1 | 0.0 |
| 80 | 2.9 | 0.0 |
| 90 | 1.6 | 0.0 |
| 95 | 1.0 | 0.0 |
| 100 | 0.2 | 0.2 |

REFERENCE NO. 198



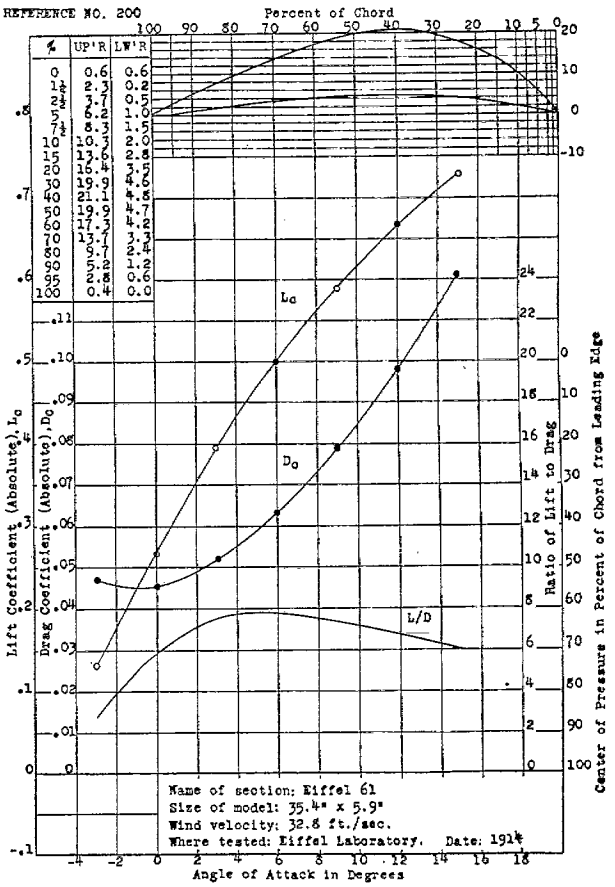

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.6 | 0.6 |
| 1¼ | 2.0 | 0.2 |
| 2½ | 2.8 | 0.5 |
| 5 | 4.5 | 1.0 |
| 7½ | 5.9 | 1.5 |
| 10 | 7.1 | 2.0 |
| 15 | 9.4 | 2.8 |
| 20 | 10.9 | 3.5 |
| 30 | 13.3 | 4.6 |
| 40 | 14.2 | 4.8 |
| 50 | 13.7 | 4.7 |
| 60 | 12.1 | 4.2 |
| 70 | 9.8 | 3.3 |
| 80 | 7.1 | 2.4 |
| 90 | 3.7 | 1.2 |
| 95 | 2.1 | 0.6 |
| 100 | 0.3 | 0.0 |

REFERENCE NO. 199



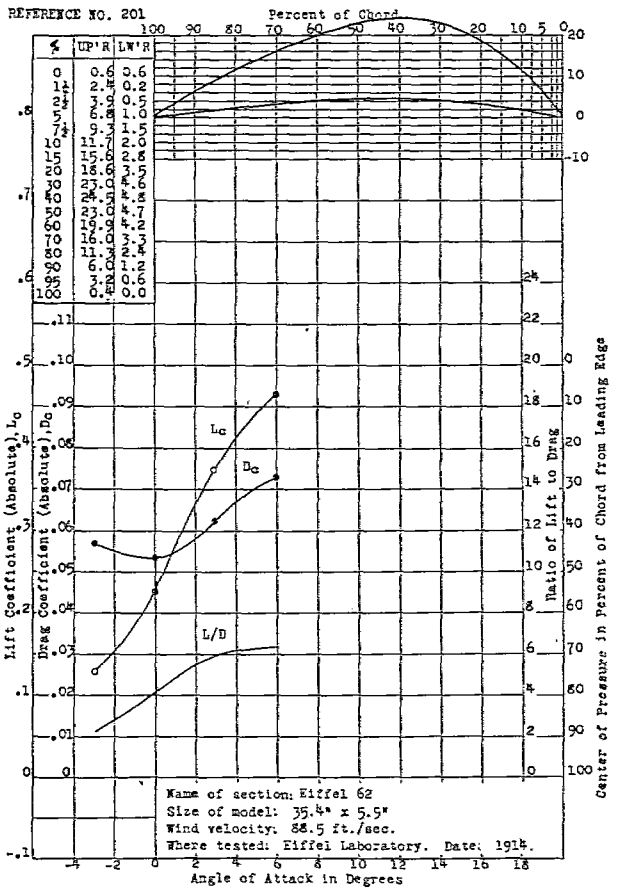

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.6 | 0.6 |
| 1¼ | 2.2 | 0.2 |
| 2½ | 3.4 | 0.5 |
| 5 | 5.5 | 1.0 |
| 7½ | 7.3 | 1.5 |
| 10 | 8.9 | 2.0 |
| 15 | 11.6 | 2.8 |
| 20 | 13.7 | 3.5 |
| 30 | 16.6 | 4.6 |
| 40 | 17.7 | 4.8 |
| 50 | 16.8 | 4.7 |
| 60 | 15.0 | 4.2 |
| 70 | 12.2 | 3.3 |
| 80 | 8.7 | 2.4 |
| 90 | 4.7 | 1.2 |
| 95 | 2.5 | 0.6 |
| 100 | 0.4 | 0.0 |

REFERENCE NO. 200



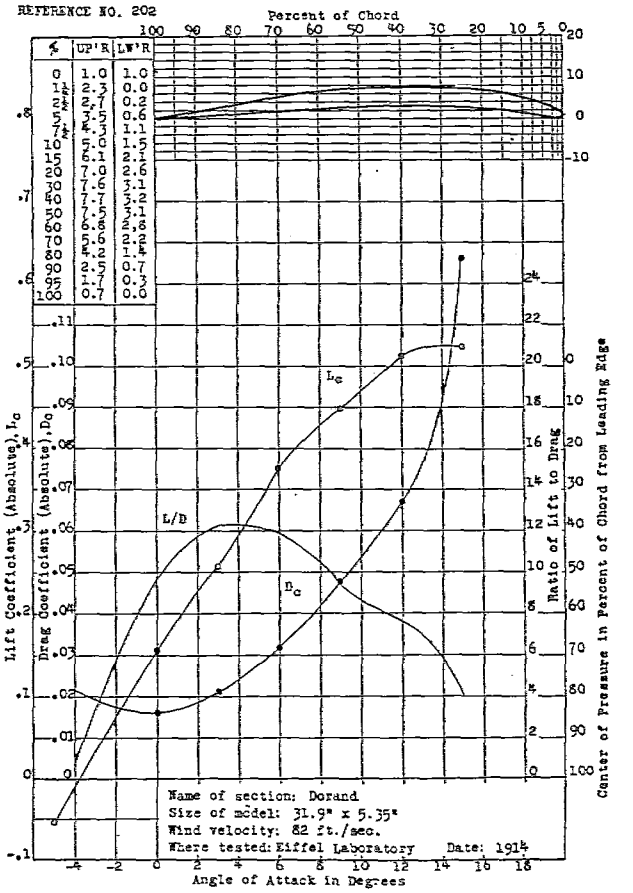

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.6 | 0.6 |
| 1¼ | 2.3 | 0.2 |
| 2½ | 3.7 | 0.5 |
| 5 | 6.2 | 1.0 |
| 7½ | 8.3 | 1.5 |
| 10 | 10.3 | 2.0 |
| 15 | 13.6 | 2.8 |
| 20 | 16.4 | 3.5 |
| 30 | 19.9 | 4.6 |
| 40 | 21.1 | 4.8 |
| 50 | 19.9 | 4.7 |
| 60 | 17.3 | 4.2 |
| 70 | 13.7 | 3.3 |
| 80 | 9.7 | 2.4 |
| 90 | 5.2 | 1.2 |
| 95 | 2.8 | 0.6 |
| 100 | 0.4 | 0.0 |

REFERENCE NO. 201



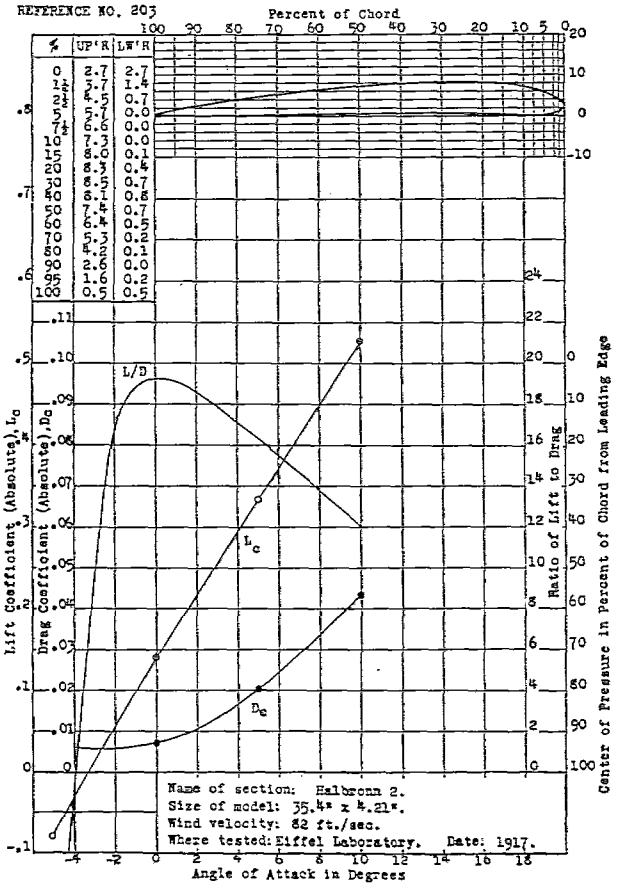

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.6 | 0.6 |
| 1¼ | 2.4 | 0.2 |
| 2½ | 3.9 | 0.5 |
| 5 | 6.8 | 1.0 |
| 7½ | 9.3 | 1.5 |
| 10 | 11.7 | 2.0 |
| 15 | 15.6 | 2.8 |
| 20 | 18.6 | 3.5 |
| 30 | 23.0 | 4.6 |
| 40 | 24.5 | 4.8 |
| 50 | 23.0 | 4.7 |
| 60 | 19.9 | 4.2 |
| 70 | 16.0 | 3.3 |
| 80 | 11.3 | 2.4 |
| 90 | 6.0 | 1.2 |
| 95 | 3.2 | 0.6 |
| 100 | 0.4 | 0.0 |

REFERENCE NO. 202



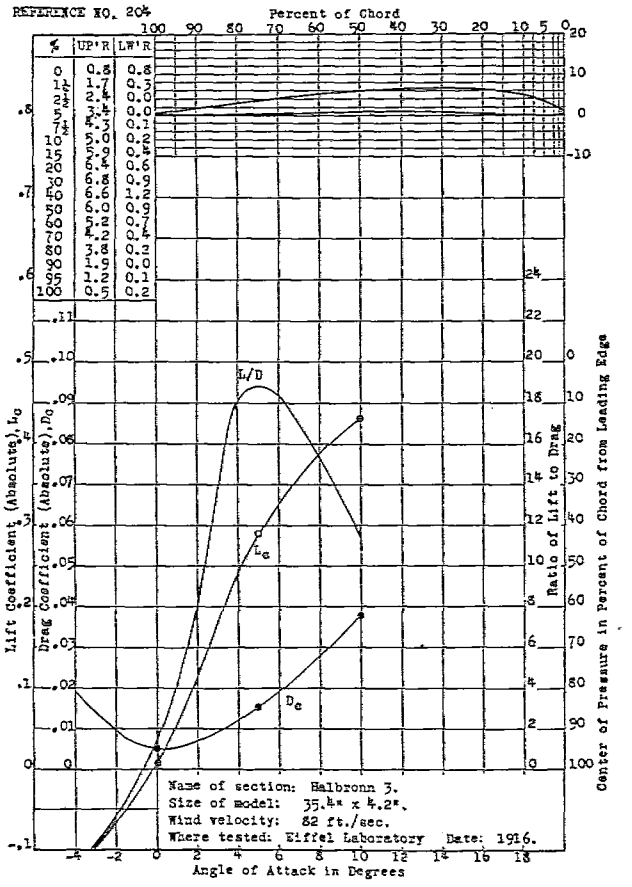

| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.0 | 1.0 |
| 1¼ | 2.3 | 0.0 |
| 2½ | 2.7 | 0.2 |
| 5 | 3.5 | 0.6 |
| 7½ | 4.3 | 1.1 |
| 10 | 5.0 | 1.5 |
| 15 | 6.1 | 2.1 |
| 20 | 7.0 | 2.6 |
| 30 | 7.6 | 3.1 |
| 40 | 7.7 | 3.2 |
| 50 | 7.5 | 3.1 |
| 60 | 6.8 | 2.8 |
| 70 | 5.6 | 2.2 |
| 80 | 4.2 | 1.4 |
| 90 | 2.5 | 0.7 |
| 95 | 1.7 | 0.3 |
| 100 | 0.7 | 0.0 |

REFERENCE NO. 203



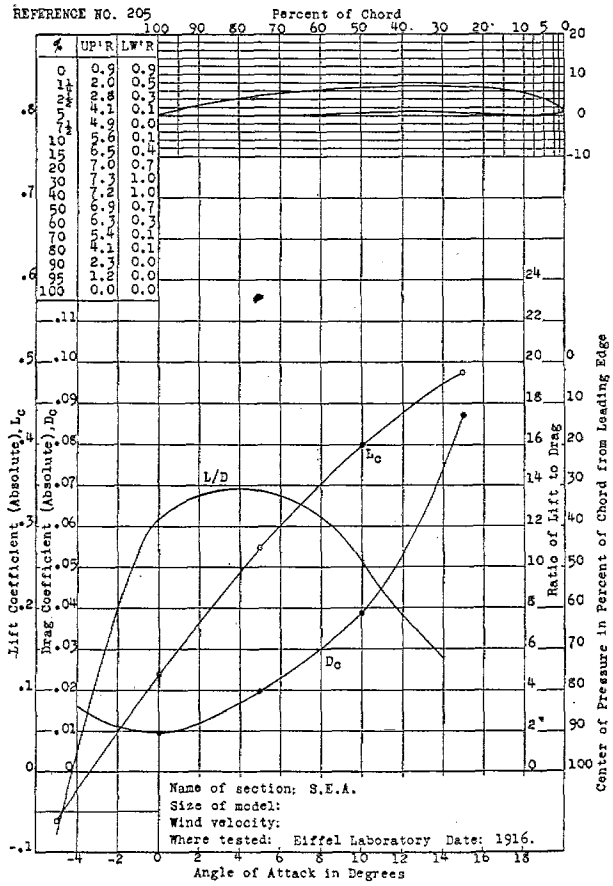

| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.7 | 2.7 |
| 1¼ | 3.7 | 1.4 |
| 2½ | 4.5 | 0.7 |
| 5 | 5.7 | 0.0 |
| 7½ | 6.6 | 0.0 |
| 10 | 7.3 | 0.0 |
| 15 | 8.0 | 0.1 |
| 20 | 8.3 | 0.4 |
| 30 | 8.5 | 0.7 |
| 40 | 8.1 | 0.8 |
| 50 | 7.4 | 0.7 |
| 60 | 6.4 | 0.5 |
| 70 | 5.3 | 0.2 |
| 80 | 4.2 | 0.1 |
| 90 | 2.6 | 0.0 |
| 95 | 1.6 | 0.2 |
| 100 | 0.5 | 0.5 |

REFERENCE NO. 204



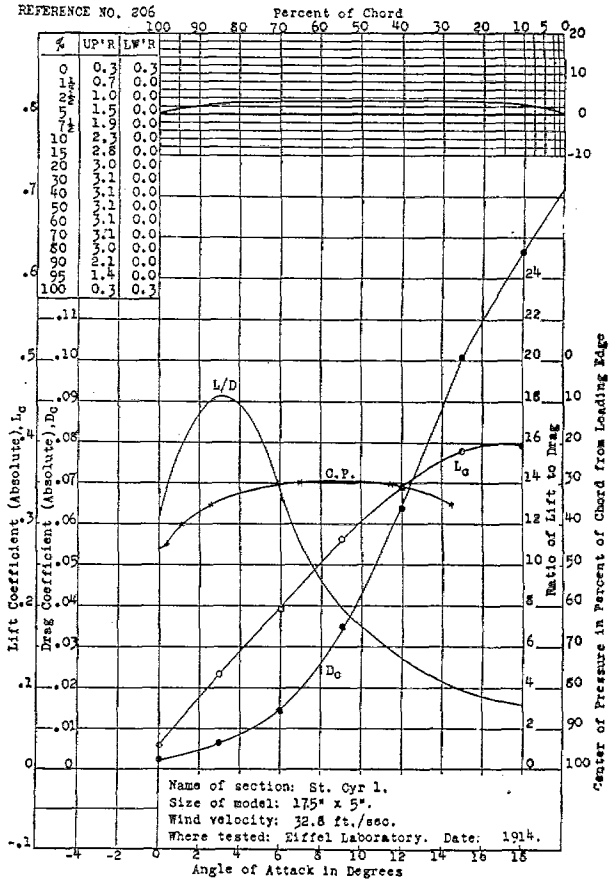

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.8 | 0.8 |
| 1¼ | 1.7 | 0.3 |
| 2½ | 2.4 | 0.0 |
| 5 | 3.4 | 0.0 |
| 7½ | 4.3 | 0.1 |
| 10 | 5.0 | 0.2 |
| 15 | 5.9 | 0.4 |
| 20 | 6.4 | 0.6 |
| 30 | 6.8 | 0.9 |
| 40 | 6.6 | 1.2 |
| 50 | 6.0 | 0.9 |
| 60 | 5.2 | 0.7 |
| 70 | 4.2 | 0.4 |
| 80 | 3.8 | 0.2 |
| 90 | 1.9 | 0.0 |
| 95 | 1.2 | 0.1 |
| 100 | 0.5 | 0.2 |

REFERENCE NO. 205



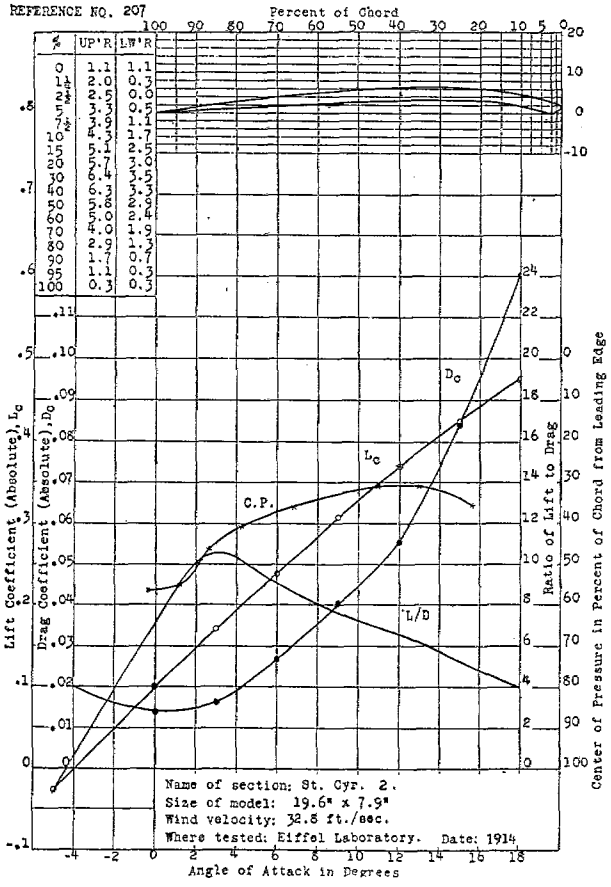

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.9 | 0.9 |
| 1¼ | 2.0 | 0.5 |
| 2½ | 2.8 | 0.3 |
| 5 | 4.1 | 0.1 |
| 7½ | 4.9 | 0.0 |
| 10 | 5.6 | 0.1 |
| 15 | 6.5 | 0.4 |
| 20 | 7.0 | 0.7 |
| 30 | 7.3 | 1.0 |
| 40 | 7.2 | 1.0 |
| 50 | 6.9 | 0.7 |
| 60 | 6.3 | 0.3 |
| 70 | 5.4 | 0.1 |
| 80 | 4.1 | 0.1 |
| 90 | 2.3 | 0.0 |
| 95 | 1.2 | 0.0 |
| 100 | 0.0 | 0.0 |

REFERENCE NO. 206



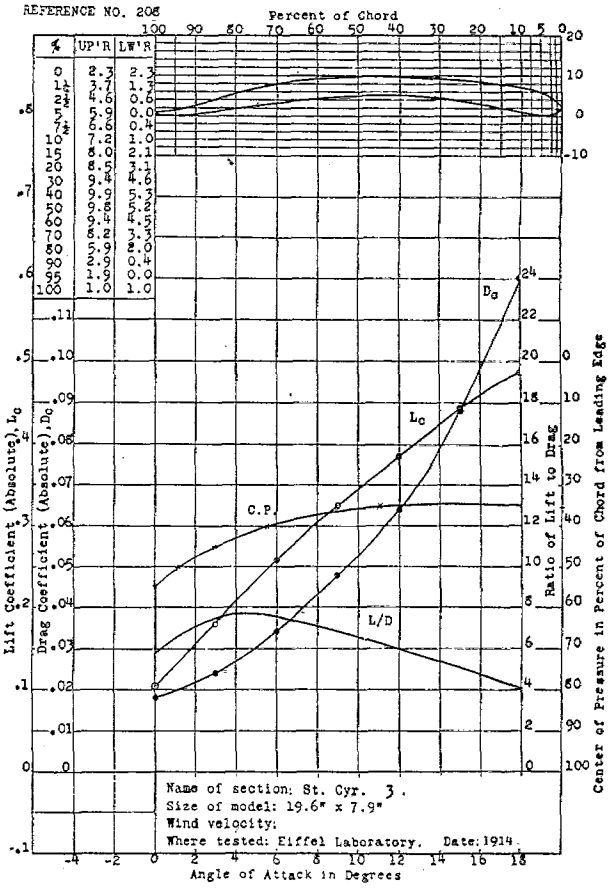

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.3 | 0.3 |
| 1¼ | 0.7 | 0.0 |
| 2½ | 1.0 | 0.0 |
| 5 | 1.5 | 0.0 |
| 7½ | 1.9 | 0.0 |
| 10 | 2.3 | 0.0 |
| 15 | 2.8 | 0.0 |
| 20 | 3.0 | 0.0 |
| 30 | 3.1 | 0.0 |
| 40 | 3.1 | 0.0 |
| 50 | 3.1 | 0.0 |
| 60 | 3.1 | 0.0 |
| 70 | 3.1 | 0.0 |
| 80 | 3.0 | 0.0 |
| 90 | 2.1 | 0.0 |
| 95 | 1.4 | 0.0 |
| 100 | 0.3 | 0.3 |

REFERENCE NO. 207




| % | UP'R | LW'R |
|---|---|---|
| 0 | 1.1 | 1.1 |
| 1¼ | 2.0 | 0.3 |
| 2½ | 2.5 | 0.0 |
| 5 | 3.3 | 0.5 |
| 7½ | 3.9 | 1.1 |
| 10 | 4.3 | 1.7 |
| 15 | 5.1 | 2.5 |
| 20 | 5.7 | 3.0 |
| 30 | 6.4 | 3.5 |
| 40 | 6.3 | 3.3 |
| 50 | 5.8 | 2.9 |
| 60 | 5.0 | 2.4 |
| 70 | 4.0 | 1.9 |
| 80 | 2.9 | 1.3 |
| 90 | 1.7 | 0.7 |
| 95 | 1.1 | 0.3 |
| 100 | 0.3 | 0.3 |

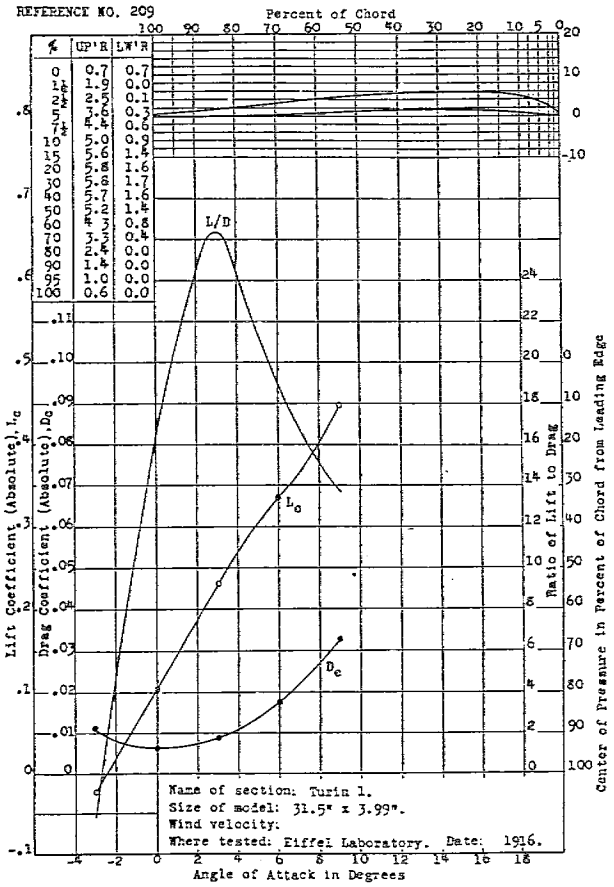
REFERENCE NO. 208




| % | UP'R | LW'R |
|---|---|---|
| 0 | 2.3 | 2.3 |
| 1¼ | 3.7 | 1.3 |
| 2½ | 4.6 | 0.6 |
| 5 | 5.9 | 0.0 |
| 7½ | 6.6 | 0.4 |
| 10 | 7.2 | 1.0 |
| 15 | 8.0 | 2.1 |
| 20 | 8.5 | 3.1 |
| 30 | 9.4 | 4.6 |
| 40 | 9.9 | 5.3 |
| 50 | 9.8 | 5.2 |
| 60 | 9.4 | 4.5 |
| 70 | 8.2 | 3.3 |
| 80 | 5.9 | 2.0 |
| 90 | 2.9 | 0.4 |
| 95 | 1.9 | 0.0 |
| 100 | 1.0 | 1.0 |

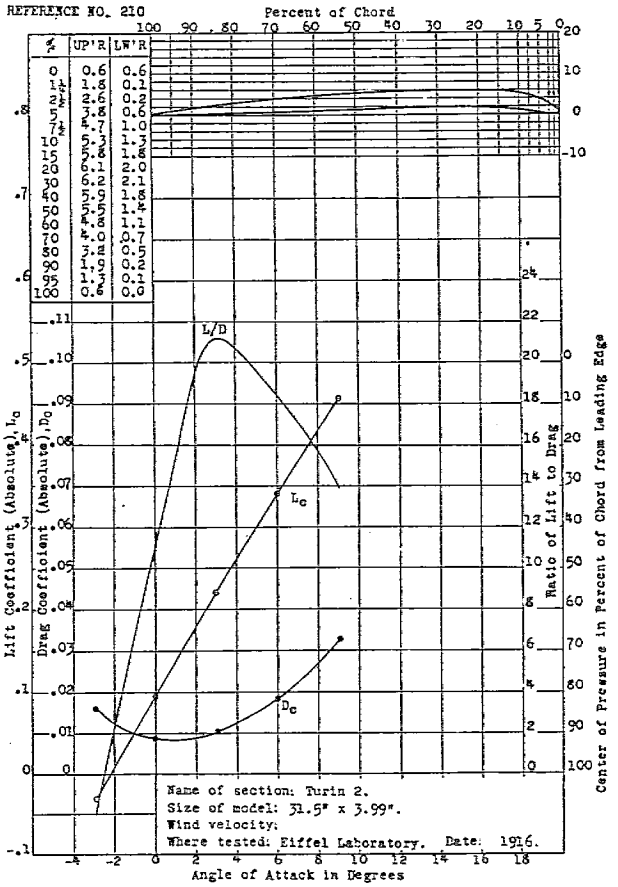
REFERENCE NO. 209

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.7 | 0.7 |
| 1¼ | 1.9 | 0.0 |
| 2½ | 2.5 | 0.1 |
| 5 | 3.6 | 0.3 |
| 7½ | 4.4 | 0.6 |
| 10 | 5.0 | 0.9 |
| 15 | 5.6 | 1.4 |
| 20 | 5.8 | 1.6 |
| 30 | 5.8 | 1.7 |
| 40 | 5.7 | 1.6 |
| 50 | 5.2 | 1.4 |
| 60 | 4.3 | 0.8 |
| 70 | 3.3 | 0.4 |
| 80 | 2.4 | 0.0 |
| 90 | 1.4 | 0.0 |
| 95 | 1.0 | 0.0 |
| 100 | 0.6 | 0.0 |



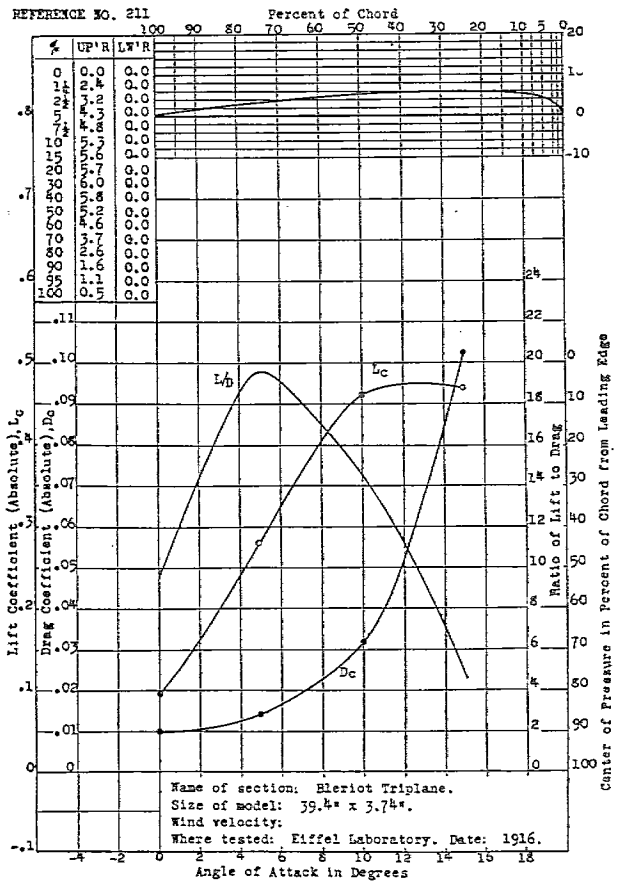

REFERENCE NO. 210

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.6 | 0.6 |
| 1¼ | 1.8 | 0.1 |
| 2½ | 2.6 | 0.2 |
| 5 | 3.8 | 0.6 |
| 7½ | 4.7 | 1.0 |
| 10 | 5.3 | 1.3 |
| 15 | 5.8 | 1.8 |
| 20 | 6.1 | 2.0 |
| 30 | 6.2 | 2.1 |
| 40 | 5.9 | 1.8 |
| 50 | 5.5 | 1.4 |
| 60 | 4.8 | 1.1 |
| 70 | 4.0 | 0.7 |
| 80 | 3.2 | 0.5 |
| 90 | 1.9 | 0.2 |
| 95 | 1.3 | 0.1 |
| 100 | 0.6 | 0.0 |



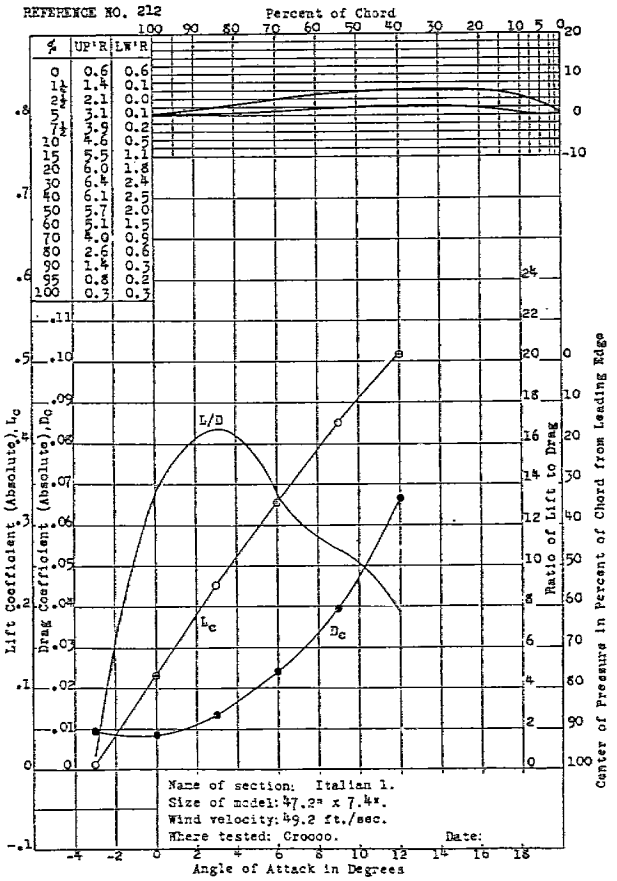

REFERENCE NO. 211

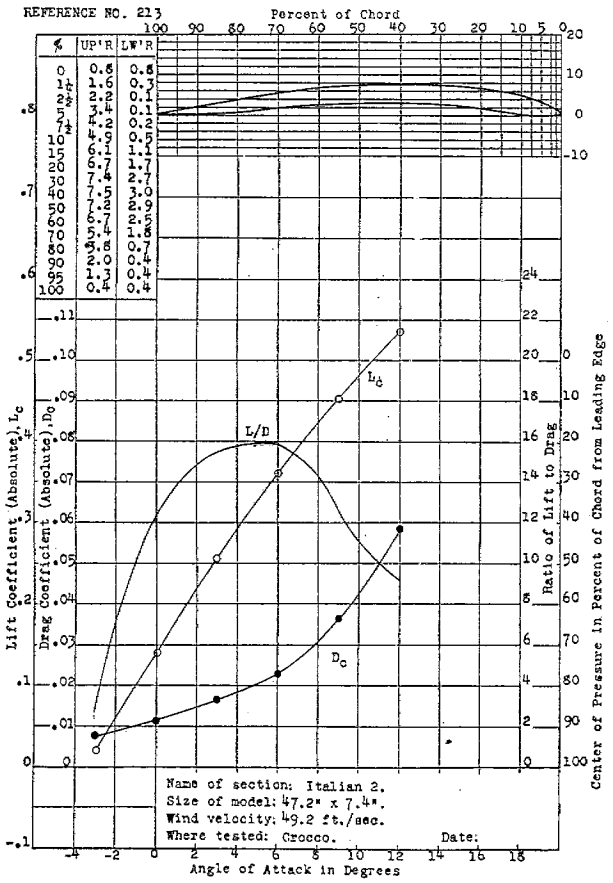
| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.0 | 0.0 |
| 1¼ | 2.4 | 0.0 |
| 2½ | 3.2 | 0.0 |
| 5 | 4.3 | 0.0 |
| 7½ | 4.8 | 0.0 |
| 10 | 5.3 | 0.0 |
| 15 | 5.6 | 0.0 |
| 20 | 5.7 | 0.0 |
| 30 | 6.0 | 0.0 |
| 40 | 5.8 | 0.0 |
| 50 | 5.2 | 0.0 |
| 60 | 4.6 | 0.0 |
| 70 | 3.7 | 0.0 |
| 80 | 2.6 | 0.0 |
| 90 | 1.6 | 0.0 |
| 95 | 1.1 | 0.0 |
| 100 | 0.5 | 0.0 |

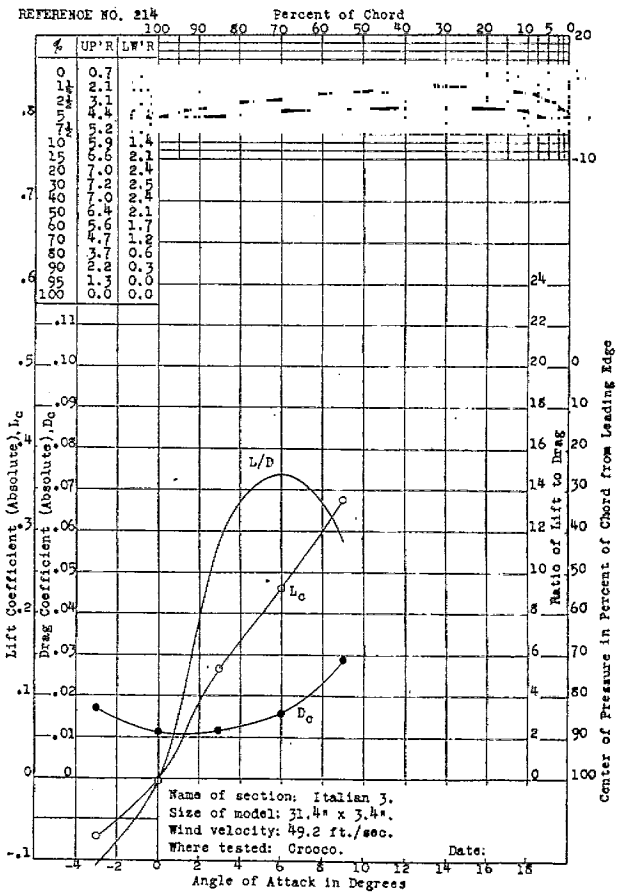



REFERENCE NO. 212

| % | UP'R | LW'R |
|---|---|---|
| 0 | 0.6 | 0.6 |
| 1¼ | 1.4 | 0.1 |
| 2½ | 2.1 | 0.0 |
| 5 | 3.1 | 0.1 |
| 7½ | 3.9 | 0.2 |
| 10 | 4.6 | 0.5 |
| 15 | 5.5 | 1.1 |
| 20 | 6.0 | 1.8 |
| 30 | 6.4 | 2.4 |
| 40 | 6.1 | 2.5 |
| 50 | 5.7 | 2.0 |
| 60 | 5.1 | 1.5 |
| 70 | 4.0 | 0.9 |
| 80 | 2.6 | 0.6 |
| 90 | 1.4 | 0.3 |
| 95 | 0.8 | 0.2 |
| 100 | 0.3 | 0.3 |




REFERENCE NO. 213
Percent of Chord
% UP'R LW'R
0 0.8 0.8
1¼ 1.6 0.3
2½ 2.2 0.1
5 3.4 0.1
7½ 4.2 0.2
10 4.9 0.5
15 6.1 1.1
20 6.7 1.7
30 7.4 2.7
40 7.5 3.0
50 7.2 2.9
60 6.7 2.5
70 5.4 1.8
80 3.8 0.7
90 2.0 0.4
95 1.3 0.4
100 0.4 0.4
L/D
$L_c$
$D_c$
Lift Coefficient (Absolute), $L_c$
Drag Coefficient (Absolute), $D_c$
Ratio of Lift to Drag
Center of Pressure in Percent of Chord from Leading Edge
Name of section: Italian 2.
Size of model: 47.2" x 7.4".
Wind velocity: 49.2 ft./sec.
Where tested: Crocco.
Date:
Angle of Attack in Degrees


REFERENCE NO. 214
Percent of Chord
% UP'R LW'R
0 0.7
1¼ 2.1
2½ 3.1
5 4.4
7½ 5.2
10 5.9 1.4
15 6.6 2.1
20 7.0 2.4
30 7.2 2.5
40 7.0 2.4
50 6.4 2.1
60 5.6 1.7
70 4.7 1.2
80 3.7 0.6
90 2.2 0.3
95 1.3 0.0
100 0.0 0.0
L/D
$L_c$
$D_c$
Lift Coefficient (Absolute), $L_c$
Drag Coefficient (Absolute), $D_c$
Ratio of Lift to Drag
Center of Pressure in Percent of Chord from Leading Edge
Name of section: Italian 3.
Size of model: 31.4" x 3.4".
Wind velocity: 49.2 ft./sec.
Where tested: Crocco.
Date:
Angle of Attack in Degrees

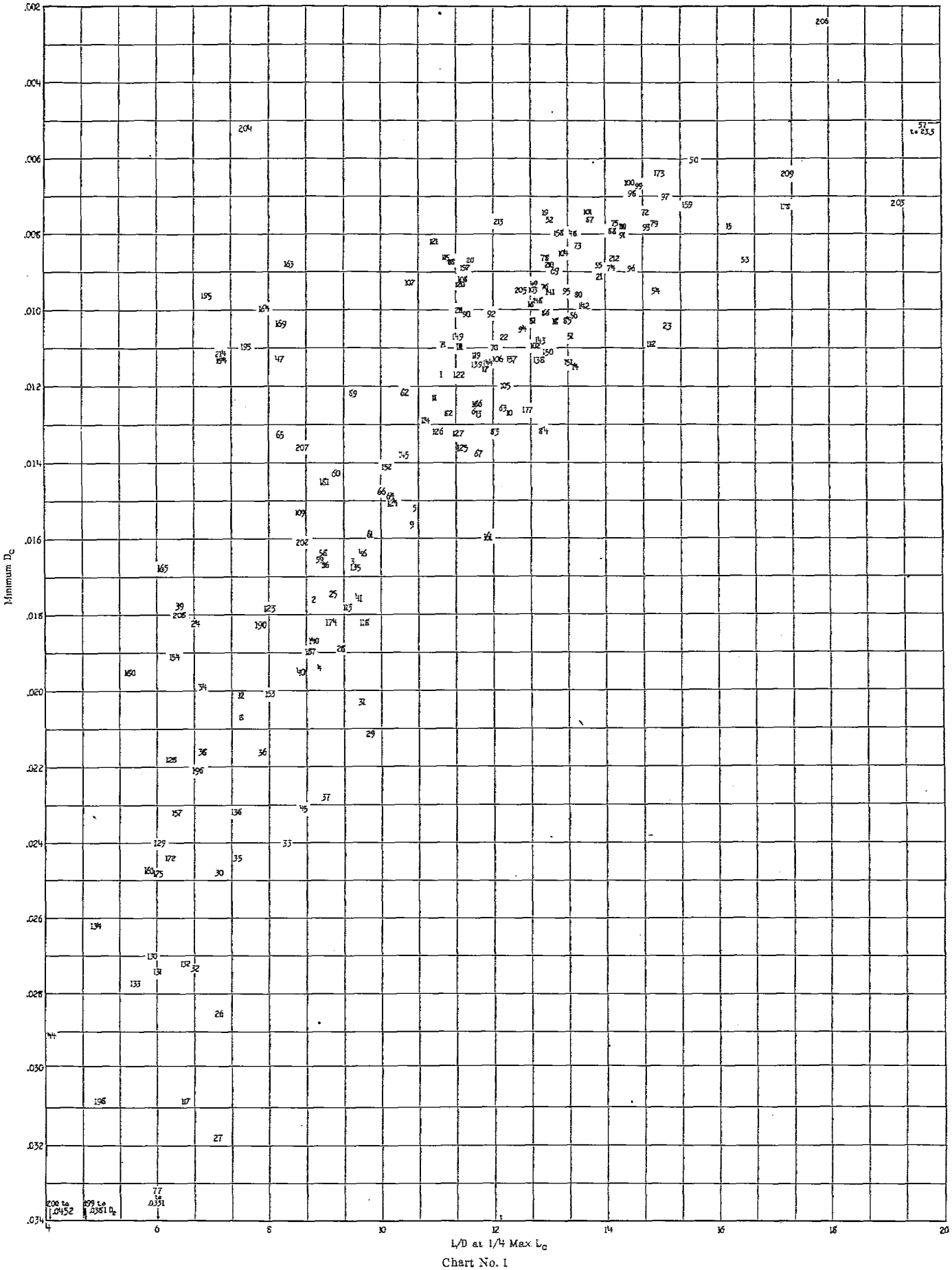

Minimum $D_c$
L/D at 1/4 Max $L_c$
.002
.004
.006
.008
.010
.012
.014
.016
.018
.020
.022
.024
.026
.028
.030
.032
.034
4
6
8
10
12
14
16
18
20

Chart No. 1

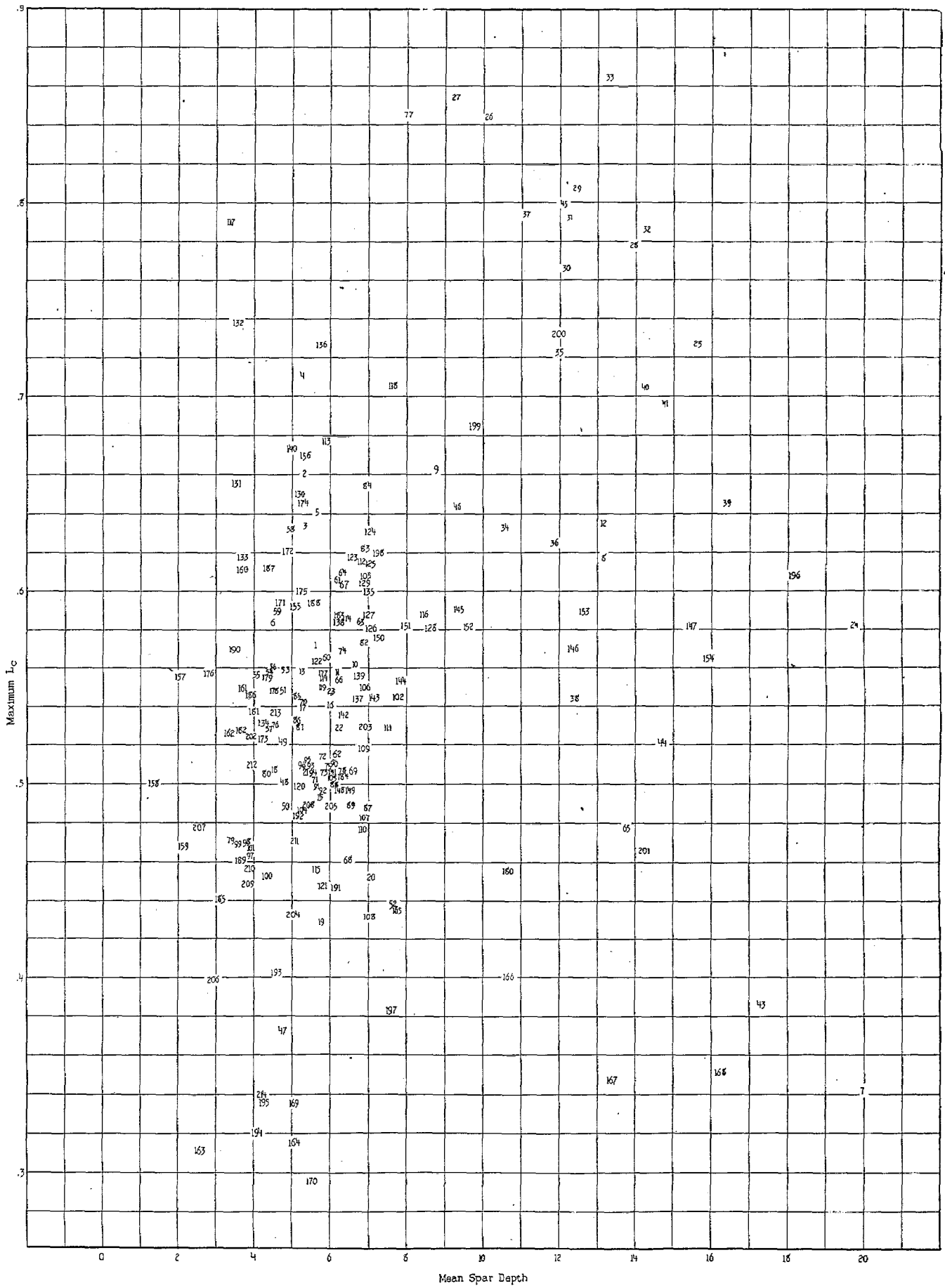



Chart No. 2.

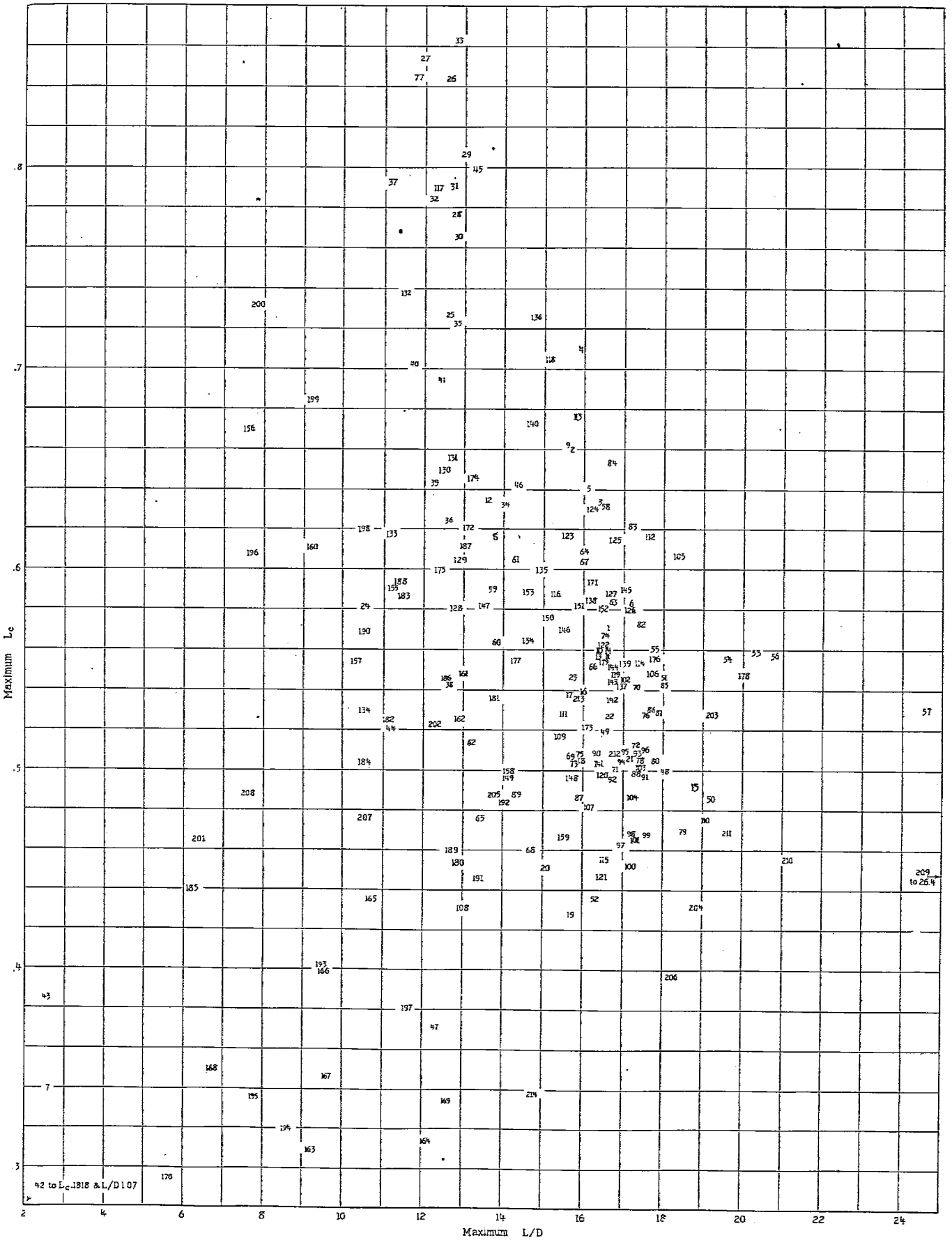

Maximum $L_c$
Maximum L/D
.8
.7
.6
.5
.4
.3
2
4
6
8
10
12
14
16
18
20
22
24
209 to 26.4
42 to $L_c$ .1818 & L/D 1.07

Chart No. 3.

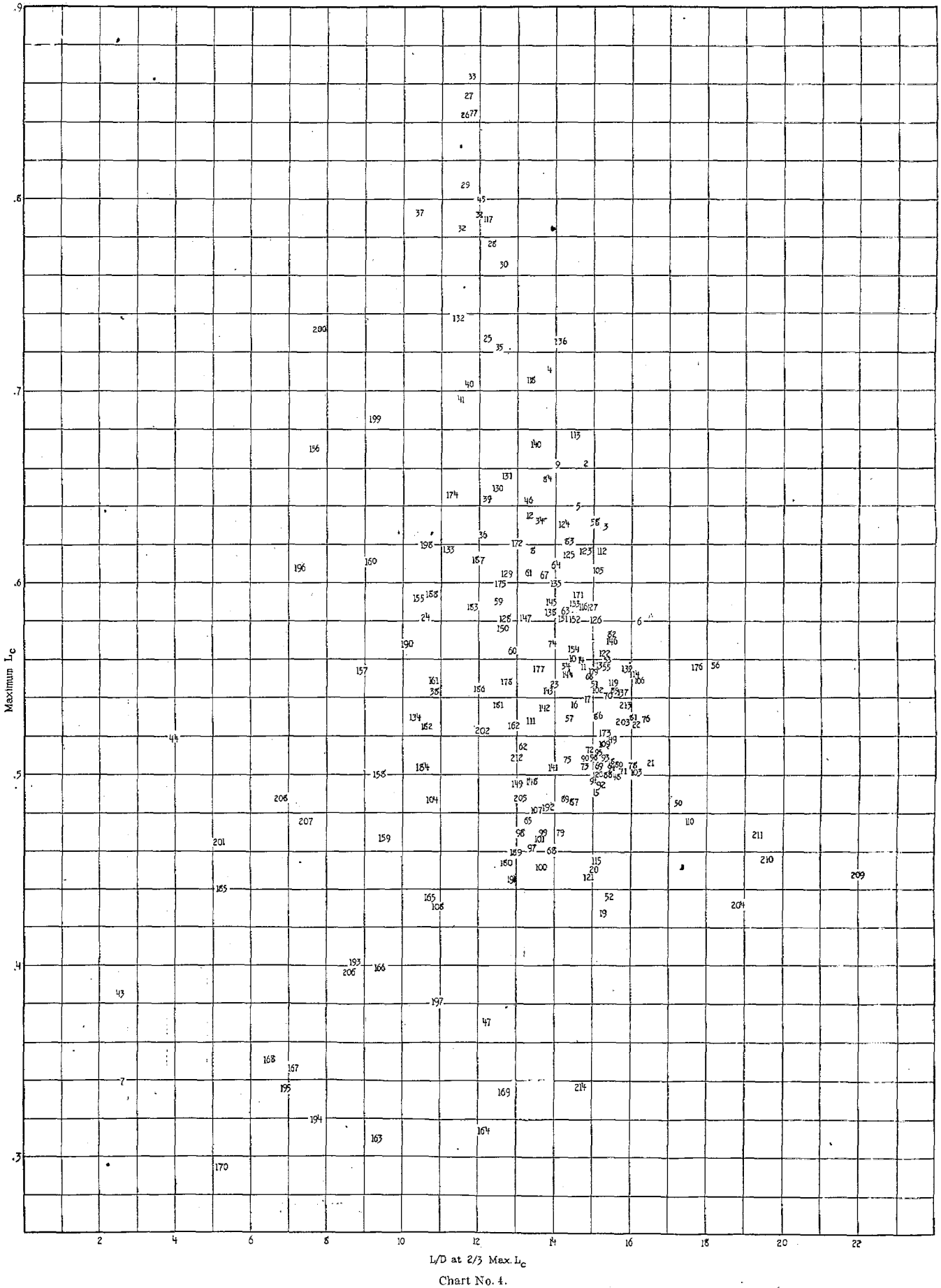



Chart No. 4.