800-89 18/65 4465 1.D.C.

VALVE EVE

| DESIGN | ACTUAL MEASUREMENT |
|---|---|
| DURATION OVERLAP & LOBE | 269° |
| 346°13'-346°13'-118°17' 112°17' | 296-296-60° 110 |
| VALVE LIFT MAX.: | |
| INT. .485 | .479 |
| EXH. .485 | .480 |
| VALVE LASH: | |
| INT. .020 EXH. .030 | |
| CHRYSLER CAM P.N. USED FOR DURATION 2780560 | |
| ESTIMATE COMPARISONS: (284-284-60°) | |
| INT. — " EXH. 'E' STREET HEMI | |
| NOMINAL ROCKER RATIO 1.5 | |

EXH. VALVE
℄ @ 111.7° BTC (MEASURED)
DIA. 1.60
DESIGN ℄ @ 112° BTC

VALVE LIFT FOR OVERLAP DIAGRAM SCALE TO

@ .05 252
@ .03 243
22
40

360 320 280 240 200 160 120 80 40

CRANKSHAFT DEGREES

90 80 70 60 50 40 30 20 10 TDC

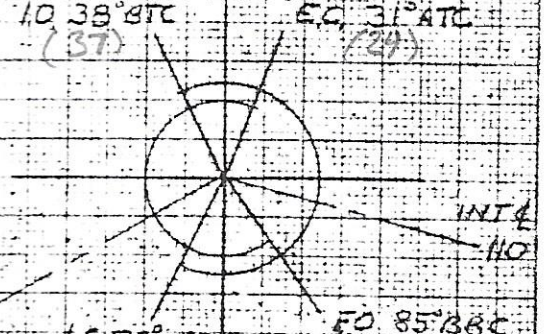
CRANKSHAFT DEGREES FO

EVENT DIAGRAM

(31)

CAM PART STD. W/RPO 22B TAPPET TYPE MECH.
DISP. & ENG. TYPE 302 CU. IN. OHV V-8
CAR MODEL & SERIES CHEVY CAMARO Z-28
ENGINE USED FOR MEASUREMENT STD. Z-28
DATE OF MEASUREMENT FEB 1970 J. ROBERTSON
MEASUREMENT METHOD:
__ DESIGN CAM LIFT X CONSTANT ROCKER RATIO
__ DESIGN VALVE LIFT
X ACTUAL VALVE LIFT (+.010 LASH LOAD)
__ ACTUAL CAM LIFT X CONSTANT ROCKER RATIO

EVENTS @ TBD LOBE LIFT




• INTAKE DUR = 38 + 78 + 180 = 296
• EXH DUR = 85 + 31 + 180 = 296

INT. VALVE
℄ IN 110° ATC
DUR. 296

DESIGN ℄ IS 112° ATC

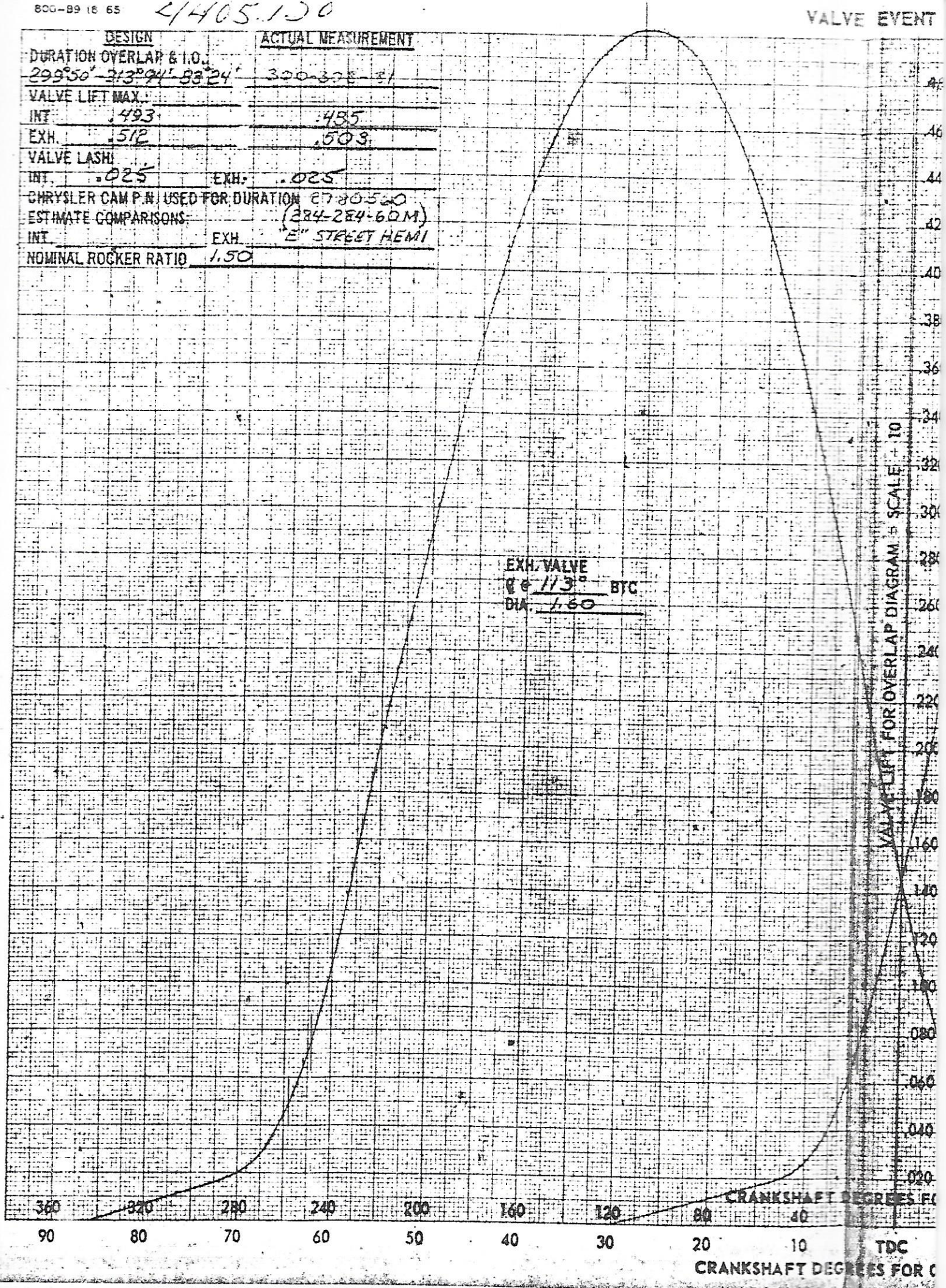
VALVE LIFT FOR OVERLAP DIAGRAM SCALE: 10 = .100 TOTAL VALVE LIFT INS.

DEGREES FOR VALVE LIFT

TDC

DEGREES FOR OVERLAP DIAGRAM

800-89 18 65 4405.130



EVENT DIAGRAM

Z-28 SERVICE CAM

CAM P.N. 3927140 TAPPET TYPE MECH
DISP. & ENG. TYPE CHEVY 302 V8
CAR MODEL & SERIES 1969 CAMARO Z-28
ENGINE USED FOR MEASUREMENT 1969 CAMARO Z-28
DATE OF MEASUREMENT MARCH 1970
MEASUREMENT METHOD:

- ☐ DESIGN CAM LIFT X CONSTANT ROCKER RATIO
- ☐ DESIGN VALVE LIFT
- ☒ ACTUAL VALVE LIFT (-.010 LASH LOAD)
- ☐ ACTUAL CAM LIFT X CONSTANT ROCKER RATIO

LOBE
EVENTS @ .TBD. .004"

IO 40° BTC
EC 41° ATC
EXH. ∠ 113°
INT. ∠ 110°
IC 86° ABC
EO 82° BBC

INT = 40 + 80 + 180 = 300
EXH = 82 + 41 + 180 = 303
OVERLAP = 21

INT. VALVE
∠ @ 110° ATC
DIA. 2.02

VALVE LIFT - INS. FOR TOTAL VALVE LIFT

.460
.440
.420
.400
.380
.360
.340
.320
.300
.280
.260
.240
.220
.200
.180
.160
.140
.120
.100
.080
.060
.040
.020

FOR OVERLAP DIAGRAM = SCALE ÷ 10

ES FOR VALVE LIFT

40 80 120 160 200 240 280 320 360

OC 10 20 30 40 50 60 70 80 90

FOR OVERLAP DIAGRAM