

TRANSPORT RESEARCH LABORATORY

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CAPACITIES, QUEUES AND DELAYS AT ROUNDABOUTS

ARCADY 5.0 ANALYSIS PROGRAM
RELEASE 1.0 (APR 2000)

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Run with file:- "w:\Mod Site, Stockley Road, Hayes\DESIGN\ANALYSIS\ARCADY\Stilwell Roundabout 2006 Forecast Base am.vai" at 09:54:14 on

ROUNDABOUT CAPACITY AND DELAY

R TITLE

Stilwell Roundabout Assessment 2006 Forecast Base am

INPUT DATA

ARM A - Stockley Road South
ARM B - Stockley Road North
ARM C - West Drayton Road

GEOMETRIC DATA

I	ARM	I	V (M)	I	E (M)	I	L (M)	I	R (M)	I	D (M)	I	PHI (DEG)	I	SLOPE	I	INTERCEPT (PCU/MIN)	I
I	ARM A	I	11.00	I	11.00	I	0.00	I	75.00	I	59.00	I	27.0	I	0.888	I	58.120	I
I	ARM B	I	5.00	I	11.00	I	27.00	I	40.00	I	59.00	I	16.0	I	0.768	I	46.095	I
I	ARM C	I	6.00	I	11.00	I	65.00	I	35.00	I	59.00	I	18.5	I	0.844	I	53.640	I

V = approach half-width L = effective flare length D = inscribed circle diameter
E = entry width R = entry radius PHI = entry angle

WARNING ARM C: Effective flare length is outside normal range.
Treat capacities with increasing caution.

TRAFFIC DEMAND DATA

TIME PERIOD BEGINS 08.00 AND ENDS 09.00

LENGTH OF TIME PERIOD - 60 MINUTES.
LENGTH OF TIME SEGMENT - 15 MINUTES.

DEMAND FLOW PROFILES ARE INPUT DIRECTLY.