

ALLIANT ENGINEERING INC.

733 S Marquette Ave #700, Minneapolis, MN 55402

TH 61-Lake St & 8th Ave
 Ref Pt: 160+00.390
 data by: Alliant Inc
 TURN MOVEMENT COUNT

File Name : 532_TH 61-Lake Street and 8th Avenue
 Site Code : 532
 Start Date : 11/7/2019
 Page No : 1

Groups Printed- Cars - Trucks

Start Time	TH 61/Lake St Southbound					8th Ave Westbound					TH 61/Lake St Northbound					8th Ave Eastbound					Int. Total	
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total		
05:00 AM	0	22	2	0	24	3	0	2	0	5	0	13	0	0	13	0	0	0	0	0	0	42
05:15 AM	0	68	1	0	69	2	0	2	0	4	0	17	0	0	17	0	0	0	0	0	0	90
05:30 AM	2	140	0	0	142	2	0	4	0	6	0	26	3	0	29	1	0	0	0	0	1	178
05:45 AM	4	220	0	0	224	0	0	4	0	4	0	36	2	0	38	3	1	2	0	0	6	272
Total	6	450	3	0	459	7	0	12	0	19	0	92	5	0	97	4	1	2	0	0	7	582
06:00 AM	0	271	1	0	272	2	0	6	0	8	0	34	0	0	34	2	0	1	0	0	3	317
06:15 AM	0	244	0	0	244	3	1	4	0	8	0	37	0	0	37	1	0	0	0	0	1	290
06:30 AM	2	225	3	0	230	5	0	5	0	10	1	52	1	0	54	0	0	0	0	0	0	294
06:45 AM	5	219	1	0	225	4	1	6	0	11	0	79	2	0	81	1	1	4	0	0	6	323
Total	7	959	5	0	971	14	2	21	0	37	1	202	3	0	206	4	1	5	0	0	10	1224
07:00 AM	1	275	5	0	281	3	3	10	0	16	0	84	2	0	86	1	1	1	0	0	3	386
07:15 AM	2	289	9	0	300	16	2	7	0	25	1	85	4	0	90	5	0	2	0	0	7	422
07:30 AM	2	234	27	0	263	41	6	21	0	68	3	130	2	0	135	2	3	0	0	0	5	471
07:45 AM	6	227	11	0	244	24	0	13	0	37	5	101	2	0	108	2	1	1	0	0	4	393
Total	11	1025	52	0	1088	84	11	51	0	146	9	400	10	0	419	10	5	4	0	0	19	1672
08:00 AM	4	142	6	0	152	8	0	6	0	14	0	75	2	0	77	3	0	3	0	0	6	249
08:15 AM	4	141	5	0	150	5	3	4	0	12	2	72	2	0	76	2	0	0	0	0	2	240
08:30 AM	0	126	13	1	140	5	3	2	0	10	0	83	3	0	86	0	0	3	0	0	3	239
08:45 AM	2	128	6	0	136	4	3	4	0	11	6	98	2	0	106	2	0	0	0	0	2	255
Total	10	537	30	1	578	22	9	16	0	47	8	328	9	0	345	7	0	6	0	0	13	983
09:00 AM	6	108	11	0	125	7	0	5	0	12	2	98	4	0	104	1	2	3	0	0	6	247
09:15 AM	10	114	7	0	131	4	3	2	0	9	5	98	6	0	109	1	1	3	0	0	5	254
09:30 AM	4	113	10	0	127	6	6	5	0	17	4	92	4	0	100	5	1	2	0	0	8	252
09:45 AM	5	113	17	0	135	10	2	5	0	17	6	94	9	0	109	3	1	1	0	0	5	266
Total	25	448	45	0	518	27	11	17	0	55	17	382	23	0	422	10	5	9	0	0	24	1019
10:00 AM	5	87	11	0	103	10	6	2	0	18	9	77	5	0	91	3	5	4	1	0	13	225
10:15 AM	6	79	11	0	96	5	1	1	0	7	1	89	9	0	99	5	1	2	0	0	8	210
10:30 AM	5	89	17	0	111	8	2	9	0	19	4	92	4	0	100	1	2	3	0	0	6	236
10:45 AM	5	89	16	0	110	18	2	7	0	27	2	72	7	0	81	6	1	4	0	0	11	229
Total	21	344	55	0	420	41	11	19	0	71	16	330	25	0	371	15	9	13	1	0	38	900
11:00 AM	9	95	13	1	118	10	4	4	0	18	5	84	10	0	99	0	3	3	0	0	6	241
11:15 AM	9	100	17	0	126	3	2	7	0	12	6	97	7	0	110	5	1	8	1	0	15	263
11:30 AM	6	114	10	0	130	9	3	13	0	25	6	104	9	0	119	5	1	4	0	0	10	284
11:45 AM	5	110	16	0	131	8	3	10	0	21	2	105	10	0	117	3	4	6	0	0	13	282
Total	29	419	56	1	505	30	12	34	0	76	19	390	36	0	445	13	9	21	1	0	44	1070
12:00 PM	8	102	10	0	120	12	4	9	0	25	5	113	5	1	124	6	0	6	0	0	12	281
12:15 PM	13	109	10	0	132	10	2	5	0	17	7	110	13	0	130	4	0	6	0	0	10	289
12:30 PM	8	90	16	1	115	7	5	9	0	21	6	92	11	0	109	4	1	9	0	0	14	259
12:45 PM	10	110	9	0	129	10	4	5	0	19	9	94	8	0	111	4	2	7	0	0	13	272
Total	39	411	45	1	496	39	15	28	0	82	27	409	37	1	474	18	3	28	0	0	49	1101
01:00 PM	11	94	9	0	114	14	5	7	0	26	7	113	10	0	130	8	3	11	0	0	22	292
01:15 PM	8	104	14	0	126	10	3	8	0	21	2	112	8	0	122	4	2	7	0	0	13	282
01:30 PM	10	123	19	1	153	14	2	6	0	22	3	117	9	0	129	2	3	4	0	0	9	313
01:45 PM	9	134	22	0	165	13	1	5	0	19	7	102	6	0	115	7	1	3	0	0	11	310
Total	38	455	64	1	558	51	11	26	0	88	19	444	33	0	496	21	9	25	0	0	55	1197

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File Name : 532_TH 61-Lake Street and 8th Avenue
 Site Code : 532
 Start Date : 11/7/2019
 Page No : 2

Groups Printed- Cars - Trucks

Start Time	TH 61/Lake St Southbound					8th Ave Westbound					TH 61/Lake St Northbound					8th Ave Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
02:00 PM	5	143	24	1	173	11	2	1	0	14	3	84	8	0	95	3	2	3	0	8	290
02:15 PM	4	128	20	0	152	32	12	15	0	59	2	121	4	0	127	6	6	4	0	16	354
02:30 PM	4	100	18	0	122	12	6	11	0	29	7	168	14	0	189	3	1	2	0	6	346
02:45 PM	5	122	14	0	141	9	9	1	0	19	5	185	18	0	208	3	0	4	0	7	375
Total	18	493	76	1	588	64	29	28	0	121	17	558	44	0	619	15	9	13	0	37	1365
03:00 PM	8	106	14	1	129	12	6	4	0	22	8	122	13	0	143	9	3	3	0	15	309
03:15 PM	6	133	17	0	156	7	4	7	0	18	4	147	19	0	170	5	4	4	0	13	357
03:30 PM	6	134	8	0	148	10	6	6	0	22	7	156	10	0	173	5	4	1	0	10	353
03:45 PM	5	168	15	0	188	11	9	7	0	27	3	143	16	0	162	4	4	5	0	13	390
Total	25	541	54	1	621	40	25	24	0	89	22	568	58	0	648	23	15	13	0	51	1409
04:00 PM	12	134	19	0	165	11	3	4	0	18	6	144	9	0	159	11	3	7	0	21	363
04:15 PM	8	146	14	0	168	8	6	7	0	21	3	144	8	0	155	7	2	10	0	19	363
04:30 PM	5	148	14	0	167	12	4	4	0	20	4	170	15	0	189	8	3	8	0	19	395
04:45 PM	9	156	10	0	175	12	5	8	0	25	11	157	7	0	175	2	4	4	0	10	385
Total	34	584	57	0	675	43	18	23	0	84	24	615	39	0	678	28	12	29	0	69	1506
05:00 PM	13	143	18	0	174	6	4	10	0	20	10	146	13	0	169	7	5	6	0	18	381
05:15 PM	15	140	11	0	166	6	3	8	0	17	9	133	17	0	159	8	3	7	0	18	360
05:30 PM	5	135	9	0	149	9	2	5	0	16	3	148	15	1	167	8	4	9	0	21	353
05:45 PM	5	151	6	0	162	6	3	5	0	14	7	137	9	0	153	2	1	7	0	10	339
Total	38	569	44	0	651	27	12	28	0	67	29	564	54	1	648	25	13	29	0	67	1433
06:00 PM	4	84	10	0	98	12	1	5	0	18	10	124	6	0	140	3	1	11	0	15	271
06:15 PM	15	99	6	0	120	5	1	1	0	7	5	137	8	0	150	4	1	8	0	13	290
06:30 PM	6	75	3	0	84	8	0	6	0	14	2	112	4	0	118	2	3	7	0	12	228
06:45 PM	10	79	3	0	92	6	3	1	0	10	6	89	5	0	100	1	1	9	0	11	213
Total	35	337	22	0	394	31	5	13	0	49	23	462	23	0	508	10	6	35	0	51	1002
07:00 PM	2	77	3	0	82	5	1	3	0	9	0	76	3	0	79	2	1	12	0	15	185
07:15 PM	5	82	4	0	91	5	0	2	0	7	3	66	0	0	69	2	1	5	0	8	175
07:30 PM	6	68	1	0	75	10	0	3	0	13	2	72	3	0	77	2	1	8	0	11	176
07:45 PM	0	76	8	0	84	1	0	3	0	4	2	88	2	0	92	3	0	1	0	4	184
Total	13	303	16	0	332	21	1	11	0	33	7	302	8	0	317	9	3	26	0	38	720
08:00 PM	1	47	5	0	53	2	0	5	0	7	0	67	5	0	72	3	0	3	0	6	138
08:15 PM	2	53	1	0	56	1	0	0	0	1	1	60	0	0	61	2	0	4	0	6	124
08:30 PM	0	61	4	0	65	5	0	0	0	5	1	54	1	0	56	0	1	0	0	1	127
08:45 PM	0	47	2	0	49	0	0	2	0	2	2	63	0	0	65	1	0	0	0	1	117
Total	3	208	12	0	223	8	0	7	0	15	4	244	6	0	254	6	1	7	0	14	506
09:00 PM	2	40	2	0	44	7	1	5	0	13	2	58	0	0	60	0	0	3	0	3	120
09:15 PM	0	27	1	0	28	6	0	2	0	8	3	37	0	0	40	0	0	0	0	0	76
09:30 PM	0	32	3	0	35	0	1	0	0	1	2	41	0	2	45	0	0	1	0	1	82
09:45 PM	0	13	0	0	13	0	0	1	0	1	0	37	0	0	37	0	0	0	0	0	51
Total	2	112	6	0	120	13	2	8	0	23	7	173	0	2	182	0	0	4	0	4	329
Grand Total	354	8195	642	6	9197	562	174	366	0	1102	249	6463	413	4	7129	218	101	269	2	590	18018
Apprch %	3.8	89.1	7	0.1		51	15.8	33.2	0		3.5	90.7	5.8	0.1		36.9	17.1	45.6	0.3		
Total %	2	45.5	3.6	0	51	3.1	1	2	0	6.1	1.4	35.9	2.3	0	39.6	1.2	0.6	1.5	0	3.3	
Cars	349	7851	621	6	8827	547	168	359	0	1074	246	6222	405	4	6877	216	99	265	2	582	17360
% Cars	98.6	95.8	96.7	100	96	97.3	96.6	98.1	0	97.5	98.8	96.3	98.1	100	96.5	99.1	98	98.5	100	98.6	96.3
Trucks	5	344	21	0	370	15	6	7	0	28	3	241	8	0	252	2	2	4	0	8	658
% Trucks	1.4	4.2	3.3	0	4	2.7	3.4	1.9	0	2.5	1.2	3.7	1.9	0	3.5	0.9	2	1.5	0	1.4	3.7

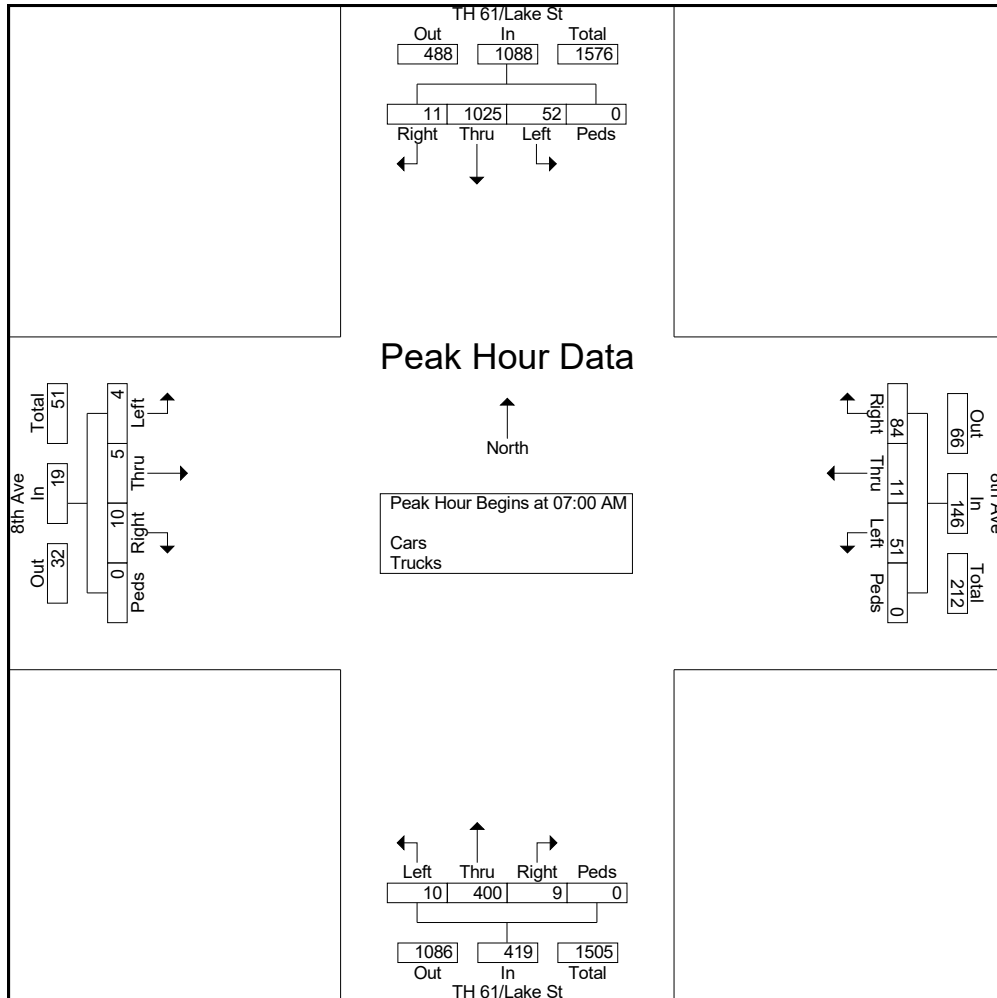
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Start Time	TH 61/Lake St Southbound					8th Ave Westbound					TH 61/Lake St Northbound					8th Ave Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 05:00 AM to 08:45 AM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 07:00 AM																					
07:00 AM	1	275	5	0	281	3	3	10	0	16	0	84	2	0	86	1	1	1	0	3	386
07:15 AM	2	289	9	0	300	16	2	7	0	25	1	85	4	0	90	5	0	2	0	7	422
07:30 AM	2	234	27	0	263	41	6	21	0	68	3	130	2	0	135	2	3	0	0	5	471
07:45 AM	6	227	11	0	244	24	0	13	0	37	5	101	2	0	108	2	1	1	0	4	393
Total Volume	11	1025	52	0	1088	84	11	51	0	146	9	400	10	0	419	10	5	4	0	19	1672
% App. Total	1	94.2	4.8	0		57.5	7.5	34.9	0		2.1	95.5	2.4	0		52.6	26.3	21.1	0		
PHF	.458	.887	.481	.000	.907	.512	.458	.607	.000	.537	.450	.769	.625	.000	.776	.500	.417	.500	.000	.679	.887



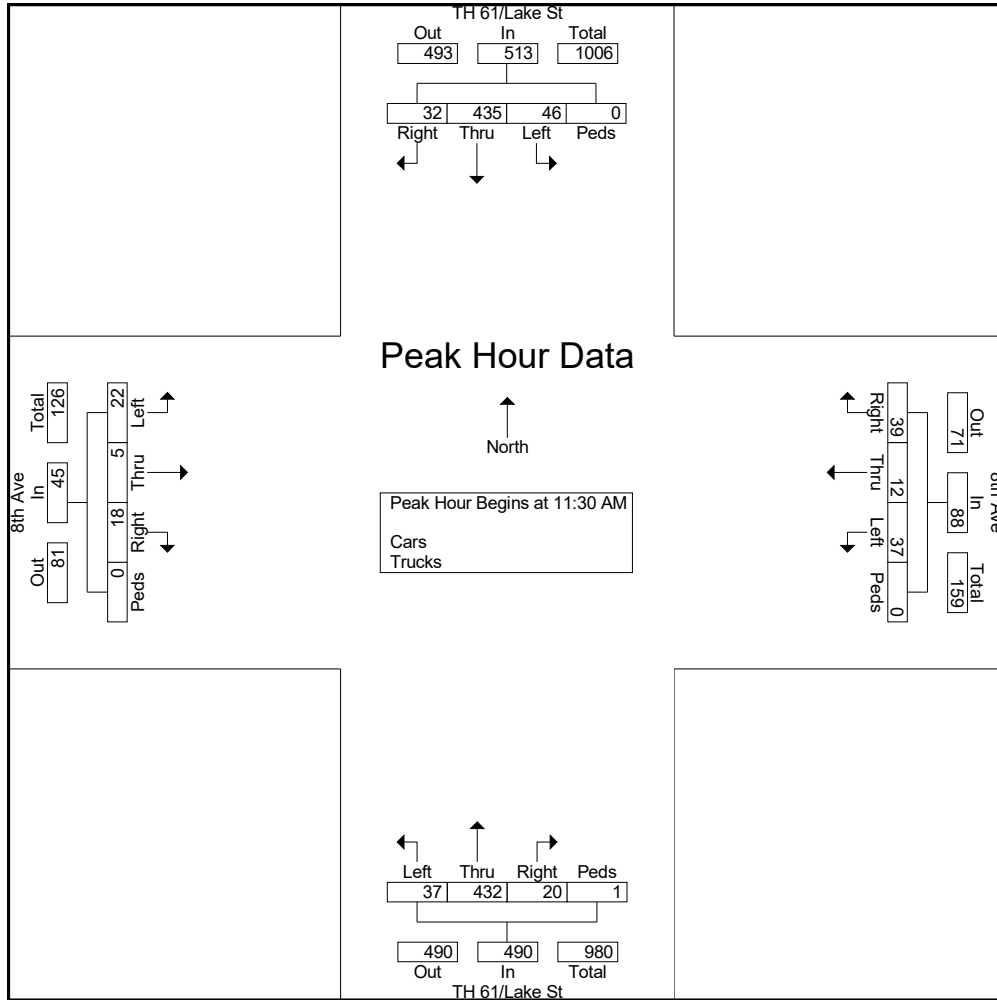
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Start Time	TH 61/Lake St Southbound					8th Ave Westbound					TH 61/Lake St Northbound					8th Ave Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 09:00 AM to 12:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 11:30 AM																					
11:30 AM	6	114	10	0	130	9	3	13	0	25	6	104	9	0	119	5	1	4	0	10	284
11:45 AM	5	110	16	0	131	8	3	10	0	21	2	105	10	0	117	3	4	6	0	13	282
12:00 PM	8	102	10	0	120	12	4	9	0	25	5	113	5	1	124	6	0	6	0	12	281
12:15 PM	13	109	10	0	132	10	2	5	0	17	7	110	13	0	130	4	0	6	0	10	289
Total Volume	32	435	46	0	513	39	12	37	0	88	20	432	37	1	490	18	5	22	0	45	1136
% App. Total	6.2	84.8	9	0		44.3	13.6	42	0		4.1	88.2	7.6	0.2		40	11.1	48.9	0		
PHF	.615	.954	.719	.000	.972	.813	.750	.712	.000	.880	.714	.956	.712	.250	.942	.750	.313	.917	.000	.865	.983



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File Name : 532_TH 61-Lake Street and 8th Avenue
 Site Code : 532
 Start Date : 11/7/2019
 Page No : 5

Start Time	TH 61/Lake St Southbound					8th Ave Westbound					TH 61/Lake St Northbound					8th Ave Eastbound					Int. Total
	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	Right	Thru	Left	Peds	App. Total	
Peak Hour Analysis From 01:00 PM to 04:45 PM - Peak 1 of 1																					
Peak Hour for Entire Intersection Begins at 03:45 PM																					
03:45 PM	5	168	15	0	188	11	9	7	0	27	3	143	16	0	162	4	4	5	0	13	390
04:00 PM	12	134	19	0	165	11	3	4	0	18	6	144	9	0	159	11	3	7	0	21	363
04:15 PM	8	146	14	0	168	8	6	7	0	21	3	144	8	0	155	7	2	10	0	19	363
04:30 PM	5	148	14	0	167	12	4	4	0	20	4	170	15	0	189	8	3	8	0	19	395
Total Volume	30	596	62	0	688	42	22	22	0	86	16	601	48	0	665	30	12	30	0	72	1511
% App. Total	4.4	86.6	9	0		48.8	25.6	25.6	0		2.4	90.4	7.2	0		41.7	16.7	41.7	0		
PHF	.625	.887	.816	.000	.915	.875	.611	.786	.000	.796	.667	.884	.750	.000	.880	.682	.750	.750	.000	.857	.956

