

ORKUSTOFNUN  
Landmælingar

LEGA OG HÆÐ STÖÐVA Í LÍNUSTÆÐI  
MILLI HORNAFJARÐAR OG BERUFJARÐAR

Desember 1974



Lega og hæð stöðva í línustæði  
milli Hörnafjarðar og Berufjarðar.

Inngangur

Línustæðið var mælt sumarið 1974 á vegum Orkustofnunar og undir stjórn Finnboga Jónssonar, en Guðmundur Hannesson valdi línustæðið og hafði umsjón með verkinu. Þórhallur Ólafsson var mælingamaður ásamt Finnboga Jónssyni. Wild RDS mælitæki voru notuð við mælingarnar.

Veður var mjög óhagstætt á mælisvæðinu þetta sumar, enda leystist mæliflokkurinn upp áður en verkinu var lokið.

Jarðfræðilegar athuganir voru gerðar á línustæðinu, en greinargerð þessi fjallar aðeins um landmælingar á línustæðinu og niðurstöður þeirra.

Lega línustæðisins

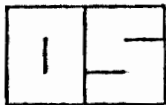
Suðurendi línunnar er um 3 km suðvestan Almannaskarðs, og liggur línan þaðan yfir skarðið, í norðaustur yfir Lónsfjörð, nálægt þjóðvegi yfir Lónsheiði, yfir Starmýrardal og áfram fyrir botna Álftafjarðar og Hamarsfjarðar og liggur línan á þeirri leið ekki langt frá þjóðvegi.

Stöðvar á þessum hluta línunnar nefnast ALO25 - AL356.

Í Starmýrardal greinist línan og liggur önnur greinin yfir Starmýrarfjörur. Nefnast þær stöðvar ST001 - ST101. Stöðvar AL356 - AL389 eru í þeim hluta línustæðis, sem liggur inn með Berufirði að sunnan og nær inn fyrir Eyvindarnes.

Umferðarstefna

Umferðarstefna í línunni er frá Hörnafirði til Berufjarðar, og eru horn í hornpunktum, línulengdir og afstaða punkta



### Umferðarstefna frh.

utan línu gefin upp í samræmi við það. Línan beygir til hægri eða vinstri í hornpunktum og punktar utan línu eru hægra eða vinstra megin línunnar, og er þá miðað við að horft sé í umferðarstefnu línunnar. Láréttur kvarði tækis var stilltur þannig að hann sýndi 0 gráður í umferðarstefnu línunnar.

### Línulengdir

Lengd línunnar vex frá 10.005 m í stöð undir Skálatindi, og er 90.006 m í norðurenda hennar í Berufirði. Línulengdin er 46.352 m í ALL79, þar sem línan greinist í Starmýrardal, og vex línulengdin norður Starmýrarfjörur.

### Hörnþungtar

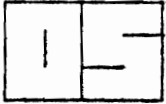
Í töflu I er að finna skrá yfir hornþungta í línunni. Gefið er nafn þungts, stefnubreyting (pósítív til hægri, negatív til vinstri), línulengd í þungtinum, og í sumum þungtum lausleg staðarlýsing, en nánari lýsingu er að finna í skýrslu Árna Hjartarsonar. Hornin eru gefin upp í nýgráðum.

### Hæðir

Sjávarborð voru mæld úr nokkrum stöðvum á Starmýrarfjörum og voru þær mælingar notaðar til að velja núllpunkt í hæðarkerfið. Hæðir miðast við meðalsjávarborð.

### Mælistöðvar

Skrá yfir mælistöðvar er að finna í töflu III, sem er úttak úr tölvu IBM 1620 samkvæmt forriti GTREDU. Niðurstöður mælinga milli stöðva ásamt línulengdum og hæðum eru gefnar.



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Blað: 03  
Dags: 09-12-74  
Gert: GP, JÁ

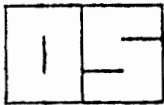
### Mælibækur

Sjálfar mælingarnar er að finna í 15 mælibókum, og hefur línulengd og hæð verið reiknuð og skráð þar fyrir hvern mælipunkt.

### Punktur utan línu

Auk mælipunkta í línunni hafa verið mældir inn punktar 5 m utan línunnar. Þeir eru auðkenndir í mælibókunum með stöfunum VP eða HP eftir því hvort punkturinn er vinstra eða hægra megin línunnar (þegar horft er í stefnu vaxandi línulengdar). Þar að auki hafa girðingar, vegir, símalínur, rafmagnslínur og fleira verið mælt inn. Upplýsingar um vegi, símalínur og rafmagnslínur er að finna í töflu II. Fjarlægð frá línu er þar mæld til hægri, þannig að negatív tala táknar punkt vinstra megin línunnar.

*Ath. Nokkur atriði hafa verið leiddrétt. (SPÍ)*



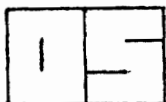
Tafla I Hornpunktur.

Hæll	Horn (nýgr)	Línulengd (m)	Staðarlýsing
AL025	(endi)	10.005	Fyrir ofan veg, undir Skálatindi
AL036	-67,75g	12.742	Neðan við Almannaskarðsvegamót
AL038	-45,87g	13.234	Í Almannaskarði
AL043	40,54g	14.786	Í Skarðsdal undir Náttmálatindi
AL054	6,52g	17.871	Í Efri - Firði
AL062	-26,00g	19.551	Á Þorgeirsstaðamelum
AL079	24,80g	23.691	Við Volasel
AL090	-32,63g	26.777	Á Þorvaldshöfða
AL097	22,26g	28.873	Nærri samkomuhúsi NA við Jökulsá
AL121	19,97g	35.474	Vestan vegar undir Reyðarártindi
AL131	-18,68g	37.824	Austan vegar við Össurá
AL139	-51,99g	39.564	Austan vegar í Heiðarbrekkum
AL148	16,32g	40,802	Í upphafi Lónsheiðar
AL153	33,86g	41.665	Á Lónsheiði undir Rjúpnadalshlíð
AL160	-46,03g	42.951	Á Lónsheiði
AL171	14,79g	44.896	Á Lónsheiði
AL187	11,86g	47.800	Í Vatnshlíð
AL198		50.152	Undir Kjölfjalli við Álftafj.botn
AL204	21,61g	51.401	Við Leirvogsbötn í Álftafirði
AL220	20,46g	54.905	Við veg ofan Hærukollsness
AL225	31,82g	56.293	Í mynni Geithellnadalshlíð
AL233	57,69g	58,220	Fyrir ofan veg við Hólsvík
AL244	-27,49g	60.333	Undir Krákhamarsfjalli
AL249	<b>29,51g</b>	<b>61.345</b>	Ofan vegar undir Krákhamarsfjalli
AL256	-17,92g	63,083	Við fjárhús Melrakkanessbónda
AL266	-58,77g	65.095	Í mýri á Melrakkanesi
AL269	-30,06g	65.700	Á Melrakkanesi
AL275	-40,43g	66.938	Milli Svínár og Krossaness
AL284	-38,74g	68.635	Ofan vegar nær Þakeyrartanga



Tafla I Hornpunktur.

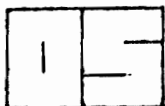
Hæll	Horn (nýgr)	Línulengd (m)	Staðarlýsing
AL298	42,70g	71.291	
AL306	73,47g	73.034	Við brú á Hamarsáreyrum
AL312	57,46g	74.346	Ofan vegar í botni Henglavíkur
AL329	6,27g	77.206	Ofan Illagils undan Flötufjöllum
AL345	-90,07g	79,998	Á gömlun vegi ofan Stekkjarhjáleigu
AL356		82.370	
AL367	24,03g	85.268	
AL371	-35,84g	86.099	
AL377	27,43g	87.322	
AL387	-19,69g	89.511	
AL389	-18,15g	90.006	
ST001	54,55g	46.455	Í Starmýrardal
ST013	-42,03g	48.451	Nokkru utar í dalnum við ána
ST016	-29,55g	48.947	-----    -----
ST020	65,05g	49.727	----- -----
ST040	46,00g	54.470	Á Malvíkurhöfða
ST042	-77,49g	54.999	Neðan Malvíkurhöfða
ST053	69,19g	57.638	Á Starmýrarfjöllum
ST054	-92,70g	57.925	-----
ST058	22,50g	58.863	-----
ST062	12,17g	59.997	-----
ST073	2,31g	62.693	-----
ST080B	-72,78g	64.339	Á Hrómundarey
ST082	93,32g	64.859	Á Þvottáreyjum (Stapaey)
ST083	74,64g	65.029	----- Afbrigði
ST086	5,50g	65.580	-----
ST089	-14,96g	66.198	-----
ST090	20,82g	66.525	-----
ST093	-27,12g	67.220	-----
ST097	-35,07g	68.151	-----
ST100	15,41g	68.982	<del>-----</del> Sunnan við Djúpasund



## Tafla II:

Símalínur, rafmagnslínur og vegir nálægt línustæðinu.

Nálægt stöð:	Línu- lengd:	Fjarlægð frá línu:	Athugasemd eða lýsing:
AL028	10.705 10.746	-13	Miðja þjóðvegur Stefna þjóðvegur
AL030	11.030 11.246	-19	Undir símalínu Stefna símalínu
AL036	12.929 12.847	-151	Undir símalínu Stefna símalínu
AL041	14.317 14.346	07	Undir símalínu Stefna símalínu
AL041	14.371 14.346	-06	Þjóðvegarmiðja Stefna þjóðvegur
AL051	17.216 17.215	13	Undir símalínu Stefna símalínu
AL051	17.241 17.237	08	Þjóðvegarmiðja Stefna þjóðvegur
AL066	20.375 20.403	-06	Undir símalínu Stefna símalínu
AL066	20.416 20.454	-11	Miðja þjóðvegur Þjóðvegur Stefna
AL098	29.050 29.059	09	Miðja þjóðvegur Stefna þjóðvegur
AL118	34.501 34.517	14	Miðja þjóðvegur Stefna þjóðvegur
AL122	35.757 35.737	07	Undir símalínu Stefna símalínu
AL122	35.815 35.797	10	Miðja þjóðvegur Stefna þjóðvegur
AL130	37.698 37.701	-06	Miðja þjóðvegur Stefna vegur
AL134	38.665 38.662	-18	Undir símalínu Stefna símalínu
AL142	39.995 40.008	04	Undir símalínu Stefna síma
AL152	41.625	-17	Stefna þjóðvegur
AL158	42.514 42.576	-54	Undir símalínu Stefna símalínu



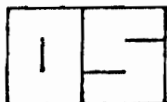
ORKUSTOFNUN  
Landmælingar

Blað: 07  
Dags: 13-12-74  
Gert: GP,JÁ

Tafla II frh.

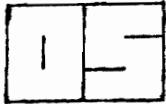
Nálægt stöð:	Línu- lengd:	Fjarlægð frá línu:	Athugasemd eða lýsing:
AL168	44.401 44.363	14	Vegarmiðja Stefna þjóðveggar
AL175	45.670 vantar		Undir símalínu Stefna símalínu
AL177	45.828 45.873	13	Miðja þjóðveggar Stefna þjóðveggar
AL179	46.394 46.374	12	Miðja þjóðveggar Stefna þjóðveggar
AL181	47.094 47.115	16	Miðja vegar Stefna vegar
AL203	50.991 51.025	-09	Undir símalínu Stefna símalínu
AL203	51.249 51.262	-13	Miðja þjóðveggar Stefna vegar
AL203	51.260 51.278	-11	Undir háspennulínu Stefna háspennulínu
AL217	54.458 54.431 54.474 54.497	-18 13 28	Undir símalínu Stefna v/símastaur I Stefna v/símastaur II Stefna v/símastaur III
AL217	54.486 54.500	19	Miðja þjóðveggar Stefna þjóðveggar
AL219	54.706 54.725	14	Undir háspennulínu Stefna háspennulínu
AL221	54.963 54.960 55.010	01 -15	Undir símalínu Stefna v/símastaur I Stefna v/símastaur II
AL221	55.276 55.445	08 -40	Stefna v/rafmagnsstaur nr. 198 Stefna v/rafmagnsstaur nr. 197
AL229	57.305 57.378 57.501	09 10 16	Þjóðveggar mældur inn Við veg Við veg Stefna vegar
AL231	57.949 57.946	-05	Undir símalínu Stefna við símastaur
AL231	57.995 58.000	10	Miðja þjóðveggar Stefna þjóðveggar





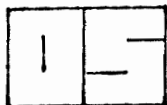
Tafla II frh.

Nálægt stöð:	Línu- lengd:	Fjarlægð frá línu:	Athugasemd eða lýsing:
AL233	58.152 58.184	-43	Undir háspennulínu Stefna háspennulínu
AL237	59.121	-46	Rafmagnsstaur nr.172 mældur inn
AL243	60.256 60.233 60.282	10 -12	Undir símalínu v/stefnu úti símastaur I v/stefnu úti símastaur II
AL243	60.160 60.188	38 35	Einstrengslína mæld inn Horn á ESL. nr. 165 Rafmagnsstaur nr. 164
AL245	60.391 60.411	-04	Vegkantur I Stefna vegar
AL245	60.713 60.696 60.743	-04 09	Undir símalínu Stefna v/símastaur I Stefna við símastaur II
AL247	60.745 60.747	08	Seinni vegkantur gamals vegar Stefna vegarins
AL251	61.630 61.645	-10	Miðja þjóðvegur Stefna vegar
AL254	62.165 62.175	-02	Undir símalínu Stefna símalínu
AL256	62.959 63.036 63.125	77 57 35	Einstrengslína mæld inn Við staur nr. 147 Undir rafmagnslínunni Við staur nr. 146
AL270	65.739 65.748	03	Á miðjun þjóðvegi Stefna þjóðvegarins
AL270	65.873 65.885	05	Rafmagnslína Stefna rafmagnslínu
AL276	67.230 67.209	-10	Undir símalínu Stefna símalínu
AL288	69.149 69.185 69.236	04 11	Undir símalínu Stefna við símastaur I Stefna við símastaur II
AL301	71.985 71.974	09	Símalína Stefna símalínu
AL303	72.310 72.321	-13	Miðja þjóðvegur Stefna þjóðvegur



Tafla II frh.

Nálægt stöð:	Línu- lengd:	Fjarlægð frá línu:	Athugasemdir eða lýsing:
AL303	72.530 72.555	-14	Háspennulína Háspennulína stefna
AL305	72.916 73.034 72.968	-65 -35 -51	Brú yfir Hamarsá mæld inn Brúarendi I Brúarendi II Brúarmiðja Punktarnir teknir á kanti nær
AL306	73.028 73.034 73.052 73.090 73.140 73.132 73.097	-17 -36 -30 -20 -04 05 -02	Einstrengslína og vegur mæld. Rafmagnsstaur nr. 79 Brúarsporður nyrðri vegkantur vegkantur vegkantur Rafmagnsstaur Undir einstrengslínu Allir punktar teknir á kanti nær
AL309	73.945 73.953	17	Á miðjum þjóðvegi Stefna þjóðvegjar
AL311	74.252 74.266	08	Símalína Stefna símalínu
AL312	74.348 74.368 74.405	-37 -12 34	Einstrengslína mæld inn Rafmagnsstaur nr. 66 Undir rafmagnslínu Rafmagnsstaur nr. 65
AL314	74.518 74.534 74.547 74.583 74.628 74.673 74.667 74.708 74.723	-25 01 -03 -05 -04 -24 -02	Rafmagnsstaur nr. 64 Símastaur nr. I Undir símalínu Símastaur nr. II Símastaur nr. III Símastaur nr. IV Rafmagnsstaur nr. 63 Símastaur I Undir símalínu
AL316	75.042	-26	Rafmagnsstaur nr. 61
AL318	75.338 75.551 75.651	-25 -25 -35	Rafmagnsstaur nr. 59 Rafmagnsstaur nr. 58 Rafmagnsstaur nr. 57
AL321	75.814 75.906	-25 -25	Rafmagnsstaur nr. 56 Rafmagnsstaur nr. 55
AL323	76.056 76.204 76.393	-24 -19 -12	Rafmagnsstaur nr. 54 Rafmagnsstaur nr. 53 Rafmagnsstaur nr. 52



Nálægt stöð:	Línu- lengd:	Fjarlægð frá línu:	Athugasemd eða lýsing
AL325	76.551	-25	Rafmagnsstaur nr. 51
AL331	77.399	-24	Rafmagnsstaur nr. 45
AL331			Hér gengur línan þvert á beygju á vegi
	77.504		Á vegkanti I
	77.522	-03	Stefna vegar
	77.523		Á miðjum vegi
	77.543		Á vegkanti I
	77.562	06	Stefna vegar
AL331	77.611	-23	Rafmagnsstaur nr. 44
AL331			Tachymetermæling á vegi neðan stöðvar í Rauðuskriðum
	77.622	05	Á vegkanti I
	77.617	14	Á vegkanti II
	77.608	10	Á vegkanti I
	77.601	18	Á vegkanti II
	77.593	11	Á vegkanti I
	77.584	17	Á vegkanti II
	77.579	09	Á vegkanti I
AL333	77.760	-25	Rafmagnsstaur nr. 43
AL335	78.158	-25	Rafmagnsstaur nr. 41
AL337	78.559	-26	Rafmagnsstaur nr. 38
AL337	78.634		Miðja þjóðvegur
	78.643	08	Stefna þjóðvegur
AL343	79.707		Undir símalínu (heimtaug)
	79.706	10	Stefna símalínu við staur
AL343	79.861		Vegkantur heimkeyrslu að Strýtu
	79.854	-06	Stefna heimkeyrslu
AL345	79.955	-27	Rafmagnsstaur nr. 27
AL368	85.438		Miðja vegur
	85.468	-10	Stefna vegur
AL368	85.505		Undir símalínu
	85.526	-07	Stefna síma
AL372	86.154		Undir símalínu
	86.181	14	stefna símalínu
AL372	86.277		Á miðjum þjóðvegi
	86.314	10	Stefna þjóðvegur



Tafla II frh.

Nálægt stöð:	Línu- lengd:	Fjarlægð frá línu:	Athugasemd eða lýsing:
ST001	46.392		Vegarmiðja
	46.396	-06	Stefna vegar
ST007	47.338	18	Símastaur
	47.390	12	Símastaur
	47.440	06	Símastaur
	47.513	00	Símastaur
	47.588	-09	Símastaur
	47.641	-11	Símastaur
ST010	47.792	-14	Símastaur
	47.894	-15	Símastaur
	47.947	-17	Símastaur
	47.997	-18	Símastaur
	48.190	-22	Símastaur
ST018	49.544		Á flóðgarði/vegi
	49.527	24	Stefna
ST025	50.688		Undir símaheimtauginni að Þvottá
	50.685	-22	Stefna heimtaugarinnar
ST027	50.777		Undir háspennulínu
	50.776	-16	Stefna háspennulínu



Tafla III Mælistöðvar

Skrá yfir mælistöðvar er á bls. 13 - 24. Við útreikninga var línunni skipt í tvo línubúta, þ.e. aðallínan frá Hornafirði til Berufjarðar og svo útskotið, sem liggur yfir Starmýrarfjörur. Hæðir eru allar reiknaðar út frá mælingum í sjó á Starmýrarfjöllum, og kom því ekki til útjöfnunar. Línubútarnir eru sem hér segir:

<u>Línubútur</u>	<u>Bls.</u>
AL025 - AL389	13
AL179 - ST101	22

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
10005.0	20.30				AL025	10005.0	20.30
0.0	0.00						
230.0	4.80	9868.0	0.0	4.76	- AL026	10235.0	15.53
247.0	-3.85	10099.0	0.0	-3.84	AL027	10482.0	11.68
267.0	4.70	9890.5	0.0	4.59	- AL028	10749.0	7.09
257.0	.70	9983.5	0.0	.66	AL029	11006.0	7.76
240.0	.40	9991.5	0.0	.32	- AL030	11246.0	7.44
243.0	-.85	10023.5	0.0	-.89	AL031	11489.0	6.54
221.0	-.80	10025.0	0.0	-.86	- AL032	11710.0	7.41
293.5	2.80	9940.0	0.0	2.76	AL033	12003.5	10.17
324.5	-1.05	10020.5	0.0	-1.04	- AL034	12328.0	11.22
161.0	-.20	10007.5	0.0	-.18	AL035	12489.0	11.03
253.5	-2.30	10058.5	0.0	-2.32	- AL036	12742.5	13.36
196.5	15.50	9499.5	0.0	15.48	AL037	12939.0	28.84
295.0	-140.00	12826.0	0.0	-140.29	*- AL038	13234.0	169.13
242.0	13.90	9599.0	1.4	13.86	- AL039	13476.0	155.27
219.5	-10.30	10301.0	0.0	-10.38	AL040	13695.5	144.88
349.0	42.30	9233.5	0.0	42.22	- AL041	14044.5	102.66
353.5	-24.80	10443.5	0.0	-24.66	AL042	14398.0	77.99
250.0	-3.95	10101.0	0.0	-3.96	- AL042B	14648.0	81.96
138.0	4.00	9819.0	0.0	3.92	AL043	14786.0	85.88
277.0	-17.70	10408.5	0.0	-17.79	AL044	15063.0	68.08
301.5	14.20	9700.5	0.0	14.19	- AL045	15364.5	53.89
290.0	-11.75	10259.0	0.0	-11.80	AL046	15654.5	42.08
330.0	8.55	9834.0	0.0	8.60	- AL047	15984.5	33.48
227.5	-1.80	10053.0	0.0	-1.89	AL048	16212.0	31.58
224.0	6.65	9809.5	0.0	6.70	- AL049	16436.0	24.88
323.0	-10.95	10217.5	0.0	-11.03	AL050	16759.0	13.84
313.5	2.85	9943.5	0.0	2.78	- AL051	17072.5	11.06
294.0	-2.30	10050.5	0.0	-2.33	AL052	17366.5	8.72
225.5	2.30	9935.0	0.0	2.30	- AL053	17592.0	6.42
279.5	1.85	9959.5	0.0	1.77	AL054	17871.5	8.20
206.5	-4.10	10127.0	0.0	-4.12	- AL055	18078.0	12.32
226.0	6.90	9806.5	0.0	6.87	AL056	18304.0	19.19
306.0	-5.80	10120.5	0.0	-5.79	- AL057	18610.0	24.98
81.0	6.40	9497.5	0.0	6.40	AL058	18691.0	31.39
276.0	4.80	9890.5	0.0	4.74	- AL060	18967.0	26.64
211.0	4.80	9856.0	0.0	4.77	AL061	19178.0	31.42
373.0	8.65	9853.5	0.0	8.58	- AL062	19551.0	22.83
168.0	-2.70	10102.5	0.0	-2.70	AL063	19719.0	20.13

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
199.0	.40	9986.0	0.0	.43	- AL064	19918.0	19.69
270.0	-7.80	10186.0	0.0	-7.89	AL065	20188.0	11.80
266.0	-1.40	10035.5	0.0	-1.48	- AL066	20454.0	13.28
357.5	-4.00	10071.5	0.0	-4.01	AL068	20811.5	9.26
272.0	-3.45	10082.0	0.0	-3.50	- AL067	21083.5	12.77
353.0	2.45	9958.0	0.0	2.32	AL069	21436.5	15.10
293.0	.40	9992.5	0.0	.34	- AL070	21729.5	14.75
274.0	-11.70	10273.5	0.0	-11.77	AL071	22003.5	2.97
294.0	2.75	9942.0	0.0	2.67	- AL072	22297.5	.29
207.5	1.00	9970.5	0.0	.96	AL073	22505.0	1.26
190.0	-1.00	10035.5	0.0	-1.05	- AL074	22695.0	2.32
258.5	-1.80	10044.5	0.0	-1.80	AL075	22953.5	.51
196.5	-.20	9972.5	1.0	-.15	- AL076	23150.0	.66
141.0	.80	9964.0	0.0	.79	AL077	23291.0	1.46
208.0	.40	9988.5	0.0	.37	- AL078	23499.0	1.08
192.0	4.85	9840.0	0.0	4.82	AL079	23691.0	5.91
330.0	4.60	9912.0	0.0	4.56	- AL080	24021.0	1.35
283.0	.50	9990.0	0.0	.44	AL081	24304.0	1.79
293.0	-.55	10011.5	0.0	-.52	- AL082	24597.0	2.32
131.0	.70	9964.5	0.0	.73	AL083	24728.0	3.05
390.5	0.00	10002.5	0.0	-.15	- AL084	25118.5	3.20
362.0	-.70	10013.0	0.0	-.73	AL085	25480.5	2.46
321.5	-.45	10009.5	0.0	-.47	- AL086	25802.0	2.94
367.5	.60	9992.5	0.0	.43	AL087	26169.5	3.38
254.5	0.00	9999.0	0.0	.03	- AL088	26424.0	3.34
247.5	0.00	9997.0	0.0	.11	AL089	26671.5	3.45
106.0	-4.50	10273.5	0.0	-4.55	- AL090	26777.5	8.01
350.0	-4.00	10071.5	0.0	-3.93	AL091	27127.5	4.08
221.5	-2.50	10073.0	0.0	-2.54	- AL092	27349.0	6.62
307.5	-2.65	10053.5	0.0	-2.58	AL093	27656.5	4.04
309.0	-.20	10007.0	0.0	-.33	- AL094	27965.5	4.38
264.5	.40	9989.5	0.0	.43	AL095	28230.0	4.81
359.5	-1.60	10030.0	0.0	-1.69	- AL096	28589.5	6.51
284.0	-.80	10019.5	0.0	-.86	AL097	28873.5	5.64
294.0	.40	9992.0	0.0	.36	- AL098	29167.5	5.27
307.5	.30	9993.5	0.0	.31	AL099	29475.0	5.58
279.0	1.50	9967.0	0.0	1.44	- AL100	29754.0	4.13
229.5	.30	9995.0	0.0	.18	AL101	29983.5	4.31
275.0	-.55	10013.0	0.0	-.56	- AL102	30258.5	4.88
329.0	1.15	9979.0	0.0	1.08	AL103	30587.5	5.96

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
323.0	-1.20	10024.5	0.0	-1.24	AL104	30910.5	7.20
275.0	1.20	9973.0	0.0	1.16	AL105	31185.5	8.37
275.5	-0.90	10022.5	0.0	-0.97	AL106	31461.0	9.34
280.0	1.05	9977.5	0.0	.98	AL107	31741.0	10.33
295.0	-0.15	10004.5	0.0	-0.20	AL108	32036.0	10.54
276.0	.30	9993.5	0.0	.28	AL109	32312.0	10.82
274.0	-0.15	10004.5	0.0	-0.19	AL110	32586.0	11.02
255.0	.60	9987.5	0.0	.50	AL111	32841.0	11.52
280.0	0.00	9999.5	0.0	.02	AL112	33121.0	11.50
274.0	-0.35	10010.5	0.0	-0.45	AL113	33395.0	11.04
257.5	.50	9988.0	0.0	.48	AL114	33652.5	10.56
270.0	-0.60	10015.5	0.0	-0.65	AL115	33922.5	9.90
287.5	.80	9982.0	0.0	.81	AL116	34210.0	9.09
266.0	-1.80	10044.5	0.0	-1.85	AL117	34476.0	7.23
159.5	-8.95	10357.5	0.0	-8.96	AL118	34635.5	16.20
228.0	8.10	9775.5	0.0	8.04	AL119	34863.5	24.24
291.0	-6.30	10139.5	0.0	-6.37	AL120	35154.5	30.62
320.0	4.70	9907.5	0.0	4.64	AL121	35474.5	35.27
148.0	6.50	9721.5	0.0	6.47	AL122	35622.5	28.79
226.0	-6.30	10178.5	0.0	-6.33	AL123	35848.5	22.45
180.0	17.00	9401.5	0.0	16.97	AL124	36028.5	5.48
238.0	-1.20	10033.5	0.0	-1.25	AL125	36266.5	4.23
259.0	-1.20	10031.0	0.0	-1.26	AL126	36525.5	5.49
268.0	0.00	10001.0	0.0	-0.04	AL127	36793.5	5.44
239.0	-3.20	10086.0	0.0	-3.22	AL128	37032.5	8.67
263.5	2.30	9944.5	0.0	2.29	AL129	37296.0	10.97
272.0	0.00	10000.0	0.0	0.00	AL130	37568.0	10.97
256.5	4.70	9885.0	0.0	4.63	AL131	37824.5	15.60
156.0	-7.20	10296.0	0.0	-7.25	AL132	37980.5	22.86
256.0	-5.20	10131.0	0.0	-5.26	AL133	38236.5	17.59
258.0	-2.55	10064.5	0.0	-2.61	AL134	38494.5	20.21
379.0	18.70	9689.0	0.0	18.52	AL136	38873.5	38.74
188.0	-5.80	10128.0	2.0	-5.78	AL137	39061.5	44.52
269.0	-4.30	10100.5	0.0	-4.24	AL138	39330.5	40.27
234.0	-2.45	10069.5	0.0	-2.55	AL139	39564.5	42.83
272.5	39.00	9094.5	0.0	39.02	AL141	39837.0	81.85
101.5	-17.90	10709.5	0.0	-18.07	AL142	39998.5	99.92
218.5	41.50	8812.0	0.0	41.25 *	AL143	40217.0	141.18
148.0	-22.90	10978.0	0.0	-22.91	AL144	40365.0	164.09
132.0	10.25	9505.5	0.0	10.27	AL146	40497.0	174.37



DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
305.0	-38.00	10783.0'	0.0	-37.70	*- AL148	40802.0	212.07
70.0	13.00	8819.0	0.0	13.13	AL149	40872.0	225.21
254.5	-50.00	11237.0	0.0	-50.08	- AL150	41126.5	275.29
240.0	58.00	8488.5	0.0	58.07	AL151	41366.5	333.37
227.0	-48.50	11335.5	0.0	-48.33	- AL152	41593.5	381.70
72.0	6.80	9407.5	0.0	6.72	AL153	41665.5	388.42
157.0	-2.00	10079.5	0.0	-1.96	- AL154	41822.5	390.38
110.5	-8.30	10421.5	1.0	-8.32	AL155	41933.0	382.05
280.0	24.60	9442.5	0.0	24.58	- AL156	42213.0	357.47
168.0	-7.80	10259.5	1.0	-7.85	AL157	42381.0	349.62
227.0	54.50	8496.5	0.0	54.62	- AL158	42608.0	294.99
145.0	-1.90	10084.0	0.0	-1.91	AL159	42753.0	293.08
198.0	3.80	9878.5	0.0	3.77	- AL160	42951.0	289.30
151.0	-11.10	10467.5	0.0	-11.10	AL161	43102.0	278.19
124.0	13.80	9292.0	0.0	13.84	- AL162	43226.0	264.34
335.0	-27.00	10511.0	0.0	-26.94	AL164	43561.0	237.39
320.0	14.80	9706.0	0.0	14.78	- AL166	43881.0	222.60
164.0	-12.05	10467.0	0.0	-12.05	AL167	44045.0	210.55
186.0	2.90	9900.0	0.0	2.92	- AL168	44231.0	207.63
285.0	-2.25	10005.5	0.0	-2.24	AL169	44516.0	207.38
193.0	-1.00	10034.0	0.0	-1.03	- AL170	44709.0	208.42
187.0	-5.30	10181.0	0.0	-5.31	AL171	44896.0	203.10
300.0	31.40	9340.0	0.0	31.21	- AL173	45196.0	171.88
338.0	15.55	9804.0	1.0	9.40	* AL174	45534.0	181.29
86.5	4.40	9675.5	0.0	4.41	- AL175	45620.5	176.88
89.0	-28.50	11951.5	0.0	-28.17	* AL176	45709.5	148.71
231.0	53.00	8566.5	0.0	52.91	- AL177	45940.5	95.80
200.0	-18.40	10588.5	0.0	-18.54	AL178	46140.5	77.26
211.5	10.30	9691.5	0.0	10.25	- AL179	46352.0	67.00
212.0	2.35	9929.5	0.0	2.34	AL180	46564.0	69.35
294.0	4.90	9891.5	0.0	5.01	- AL183	46858.0	64.34
216.5	17.80	9475.5	0.0	17.87	AL182	47074.5	82.21
301.5	-28.30	10595.5	0.0	-28.28	- AL181	47376.0	110.50
92.5	13.30	9094.0	0.0	13.25	AL184	47468.5	123.75
189.0	-11.25	10381.0	0.0	-11.32	- AL185	47657.5	135.08
79.5	.40	9970.5	0.0	.36	AL186	47737.0	135.45
63.0	9.00	9106.0	0.0	8.90	- AL187	47800.0	126.54
237.0	-35.00	10939.5	0.0	-35.23	* AL188	48037.0	91.31
333.0	-1.10	10002.0	0.0	-1.10	- AL189	48370.0	91.41
267.0	17.40	9585.0	0.0	17.42	AL190	48637.0	108.84

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
289.0	-22.80	10502.0	0.0	-22.83	- AL191	48926.0	131.68
108.0	5.90	9656.0	0.0	5.84	- AL192	49034.0	137.52
220.0	-21.00	10605.0	0.0	-20.97	- AL193	49254.0	158.49
175.0	6.70	9723.0	1.0	6.61	- AL194	49429.0	165.11
210.0	-7.70	10226.0	0.0	-7.45	*- AL195	49639.0	172.57
123.0	-15.40	10789.0	0.0	-15.32	- AL196	49762.0	157.25
217.0	86.50	7584.5	0.0	86.52	- AL197	49979.0	70.72
173.0	-27.60	11005.0	0.0	-27.53	- AL198	50152.0	43.18
195.0	2.60	9915.5	0.0	2.58	- AL199	50347.0	40.59
206.0	-1.40	10044.0	0.0	-1.42	- AL200	50553.0	39.17
224.0	4.00	9887.5	0.0	3.95	- AL201	50777.0	35.21
210.0	-5.30	10134.0	1.0	-5.42	- AL202	50987.0	29.79
290.0	14.00	9692.5	0.0	14.01	- AL203	51277.0	15.77
124.0	-6.0	10028.0	0.0	-5.4	- AL204	51401.0	15.22
235.5	15.00	9596.0	0.0	14.96	- AL205	51636.5	.26
228.0	.20	9997.5	0.0	.08	- AL206	51864.5	.35
218.0	-.30	10006.5	0.0	-.22	- AL207	52082.5	.57
227.0	.45	9986.0	0.0	.49	- AL208	52309.5	1.07
247.0	-.20	10005.5	0.0	-.21	- AL209	52556.5	1.28
228.0	.30	9992.0	0.0	.28	- AL210	52784.5	1.57
242.0	-.30	10010.0	0.0	-.38	- AL211	53026.5	1.95
278.0	-.70	10016.0	0.0	-.69	- AL212	53304.5	1.25
211.5	.35	9990.0	0.0	.33	- AL213	53516.0	.92
218.0	.05	9998.5	0.0	.05	- AL214	53734.0	.97
233.0	.05	9997.5	0.0	.09	- AL215	53967.0	.88
280.0	0.00	10000.0	0.0	0.00	- AL216	54247.0	.88
231.0	-1.80	10051.0	0.0	-1.85	- AL217	54478.0	2.73
131.0	29.25	8603.0	0.0	29.21	- AL218	54609.0	31.94
185.0	-3.05	10106.0	0.0	-3.08	- AL219	54794.0	35.03
111.0	-1.20	10067.0	0.0	-1.16	- AL220	54905.0	33.86
174.0	3.70	9866.5	0.0	3.64	- AL221	55079.0	30.21
338.0	-19.00	10358.5	0.0	-19.05	- AL222	55417.0	11.15
377.0	10.80	9818.5	0.0	10.75	- AL223	55794.0	.40
238.0	.10	9971.0	1.0	.08	- AL224	56032.0	.49
261.0	-.35	10009.0	0.0	-.36	- AL225	56293.0	.86
226.5	.75	9981.0	0.0	.67	- AL226	56519.5	1.53
242.0	-.35	10009.0	0.0	-.34	- AL227	56761.5	1.87
297.0	0.00	10000.0	0.0	0.00	- AL228	57058.5	1.87
228.0	0.00	10000.0	0.0	0.00	- AL229	57286.5	1.87
215.0	0.00	10001.0	0.0	-.03	- AL230	57501.5	1.84

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
230.0	-1.50	10044.0	0.0	-1.58	- AL231	57731.5	3.43
283.5	7.10	9843.0	0.0	6.99	- AL232	58015.0	10.42
205.0	.60	9983.0	0.0	.54	- AL233	58220.0	9.88
234.5	6.45	9825.5	0.0	6.42	- AL234	58454.5	16.30
248.0	-4.50	10119.0	0.0	-4.63	- AL235	58702.5	20.94
232.0	6.50	9824.0	0.0	6.41	- AL236	58934.5	27.36
190.0	-7.35	10247.0	0.0	-7.37	- AL237	59124.5	34.73
202.0	-4.30	10135.5	0.0	-4.30	- AL238	59326.5	30.43
220.5	.05	9998.0	0.0	.06	- AL239	59547.0	30.36
121.0	10.00	9476.0	0.0	9.98	- AL240	59668.0	40.34
275.5	-15.70	10364.5	0.0	-15.79	- AL241	59943.5	56.14
149.0	6.00	9745.0	0.0	5.97	- AL242	60092.5	62.11
80.0	-1.95	10156.0	0.0	-1.96	- AL243	60172.5	64.07
160.5	-25.00	10989.5	0.0	-25.14	- AL244	60333.0	38.92
180.0	-2.85	10102.0	0.0	-2.88	- AL245	60513.0	41.80
227.0	-7.80	10219.5	0.0	-7.82	- AL246	60740.0	33.97
191.0	-22.00	10729.5	0.0	-21.98	- AL247	60931.0	55.96
210.0	7.65	9768.5	0.0	7.63	- AL248	61141.0	63.60
204.0	-7.50	10236.0	0.0	-7.56	- AL249	61345.0	71.16
186.5	-14.80	10471.5	1.0	-14.83	- AL250	61531.5	56.32
264.0	19.40	9533.5	0.0	19.37	- AL251	61795.5	36.94
305.5	.05	9998.5	0.0	.07	- AL252	62101.0	37.02
449.5	9.70	9863.5	0.0	9.63	- AL254	62550.5	27.38
229.5	7.30	9800.5	0.0	7.19	- AL255	62780.0	34.57
303.0	14.20	9702.5	0.0	14.16	- AL256	63083.0	20.40
195.0	2.00	9936.0	0.0	1.96	- AL257	63278.0	22.36
195.0	-1.20	10041.0	0.0	-1.25	- AL258	63473.0	23.62
218.0	.35	9991.5	0.0	.29	- AL259	63691.0	23.91
283.5	-8.30	10187.5	0.0	-8.35	- AL260	63974.5	32.26
197.0	-1.10	10038.5	0.0	-1.19	- AL261	64171.5	31.07
206.5	-9.70	10294.5	0.0	-9.55	- AL262	64378.0	40.63
271.0	-11.70	10260.0	0.0	-11.07	* AL263	64649.0	29.55
85.0	-6.80	10504.5	0.0	-6.75	- AL263B	64734.0	36.30
293.0	-7.40	10160.5	0.0	-7.38	- AL265	65027.0	28.92
68.0	4.30	9596.5	0.0	4.31	- AL266	65095.0	24.60
184.0	0.00	9996.5	0.0	.10	- AL267	65279.0	24.70
291.0	9.10	9802.0	0.0	9.05	- AL268	65570.0	15.65
130.0	-6.20	10308.0	0.0	-6.29	- AL269	65700.0	9.35
301.5	-18.50	10391.5	0.0	-18.56	- AL270	66001.5	27.92
43.5	-1.00	10144.0	0.0	-.98	- AL271	66045.0	26.93

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
137.0	3.10	9857.5'	0.0	3.06	- AL272	66182.0	23.87
274.0	4.50	9897.0	0.0	4.43	- AL273	66456.0	28.30
231.0	1.00	9974.0	0.0	.94	- AL274	66687.0	27.36
251.0	-8.30	10210.0	0.0	-8.28	- AL275	66938.0	19.07
209.5	-7.00	10215.0	0.0	-7.07	- AL276	67147.5	26.15
156.0	10.85	9559.0	0.0	10.82	- AL277	67303.5	36.98
109.0	5.60	9677.0	0.0	5.53	- AL278	67412.5	31.44
209.0	-1.05	10032.5	0.0	-1.06	- AL279	67621.5	30.37
222.0	7.80	9776.5	0.0	7.79	- AL280	67843.5	22.58
114.0	-1.85	10104.0	0.0	-1.86	- AL281	67957.5	20.71
187.0	-12.30	10420.0	0.0	-12.35	- AL282	68144.5	33.07
297.0	-1.90	10041.5	0.0	-1.93	- AL283	68441.5	31.13
194.0	-7.00	10231.0	0.0	-7.04	- AL284	68635.5	38.18
28.0	1.40	9678.0	0.0	1.41	- AL285	68663.5	39.59
203.0	.80	9975.0	0.0	.79	- AL286	68866.5	38.80
109.0	-2.90	10168.0	0.0	-2.87	- AL287	68975.5	35.92
270.0	17.80	9581.5	0.0	17.77	- AL288	69245.5	18.14
278.0	6.70	9848.0	0.0	6.63	- AL289	69523.5	24.78
217.5	-13.75	10402.0	0.0	-13.75	- AL290	69741.0	38.54
247.0	-15.00	10387.0	0.0	-15.03	- AL291	69988.0	23.50
211.0	-14.80	10446.0	0.0	-14.80	- AL292	70199.0	38.31
66.0	7.80	9245.5	0.0	7.85	- AL293	70265.0	46.17
263.0	5.60	9865.5	0.0	5.55	- AL294	70528.0	40.61
241.0	12.00	9684.5	0.0	11.95	- AL295	70769.0	52.56
160.0	-3.10	10122.5	0.0	-3.07	- AL296	70929.0	55.64
148.5	13.00	9445.0	0.0	12.97	- AL297	71077.5	68.62
208.0	-19.60	10597.5	0.0	-19.57	- AL297B	71285.5	88.20
6.0	.30	9670.5	0.0	.31	- AL298	71291.5	88.51
96.0	8.40	9449.0	0.0	8.32	- AL299	71387.5	80.18
227.0	-25.25	10705.5	0.0	-25.25	- AL300	71614.5	54.92
231.0	12.65	9652.0	0.0	12.63	- AL301	71845.5	42.28
256.5	-5.10	10102.5	1.0	-5.13	- AL302	72102.0	37.15
265.0	16.70	9601.0	0.0	16.63	- AL303	72367.0	20.52
254.0	-18.90	10472.0	0.0	-18.86	- AL304	72621.0	1.65
213.0	-2.20	10006.0	0.0	-2.20	- AL305	72834.0	1.86
200.0	0.00	10000.5	0.0	-.01	- AL306	73034.0	1.84
222.0	.40	9989.0	0.0	.38	- AL307	73256.0	1.46
248.0	-.70	10017.0	0.0	-.66	- AL308	73504.0	.79
300.0	.30	9994.0	0.0	.28	- AL309	73804.0	.51
198.0	19.00	9390.0	0.0	19.03	- AL310	74002.0	19.54

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
87.0	-10.00	10725.0	0.0	-9.95	- AL311	74089.0	29.49
257.0	29.40	9275.5	0.0	29.37	AL312	74346.0	58.87
328.0	11.00	9786.5	0.0	11.00	- AL314	74674.0	47.86
176.5	-38.15	11355.5	0.0	-38.15	AL315	74850.5	9.70
231.0	0.00	10000.0	0.0	0.00	- AL316	75081.5	9.70
139.0	12.10	9448.0	0.0	12.08	AL317	75220.5	21.79
105.0	-1.40	10088.0	0.0	-1.45	- AL318	75325.5	23.24
417.5	18.45	9717.5	0.0	18.53	AL320	75743.0	41.78
107.0	-8.40	10498.5	0.0	-8.39	- AL321	75850.0	50.17
197.0	0.00	9967.5	1.0	0.00	AL322	76047.0	50.18
133.0	7.40	9649.0	0.0	7.34	- AL323	76180.0	42.84
216.0	14.10	9584.5	0.0	14.11	AL324	76396.0	56.96
164.0	-11.70	10452.5	0.0	-11.67	- AL325	76560.0	68.63
15.0	-45	10187.5	0.0	-44	AL326	76575.0	68.19
257.0	25.50	9367.5	0.0	25.61	- AL327	76832.0	42.57
179.0	10.70	9621.0	0.0	10.66	AL328	77011.0	53.24
195.0	-5.40	10178.5	0.0	-5.46	- AL329	77206.0	58.71
177.0	-14.40	10518.5	0.0	-14.44	AL330	77383.0	44.26
223.0	7.75	9779.5	0.0	7.72	- AL331	77606.0	36.54
147.0	-20.40	10875.5	0.0	-20.34	AL332	77753.0	16.19
159.0	-6.80	10272.5	0.0	-6.81	- AL333	77912.0	23.00
244.0	13.40	9652.0	0.0	13.35	AL334	78156.0	36.35
89.0	-3.50	10251.5	0.0	-3.51	- AL335	78245.0	39.87
29.0	-2.20	10486.5	0.0	-2.22	AL336	78274.0	37.65
207.0	14.40	9558.0	0.0	14.39	- AL337	78481.0	23.25
277.5	17.85	9591.5	0.0	17.83	AL338	78758.5	41.09
157.0	11.20	9549.0	0.0	11.14	- AL339	78915.5	29.94
180.0	-4.50	10159.5	0.0	-4.51	AL340	79095.5	25.43
126.5	-50	10024.5	0.0	-48	- AL341	79222.0	25.92
242.0	1.80	9952.5	0.0	1.80	AL342	79464.0	27.73
225.0	1.10	9970.5	0.0	1.04	- AL343	79689.0	26.68
230.0	6.40	9795.5	1.0	6.39	AL344	79919.0	33.07
79.0	3.45	9721.5	0.0	3.45	- AL345	79998.0	29.62
198.0	50.00	8422.5	0.0	50.09	AL346	80196.0	79.71
102.0	-19.00	11169.5	0.0	-18.95	- AL347	80298.0	98.66
212.5	10.15	9697.5	0.0	10.10	AL348	80510.5	108.77
197.0	-3.30	10108.5	0.0	-3.35	- AL349	80707.5	112.12
257.0	-6.60	10163.5	0.0	-6.60	AL350	80964.5	105.52
106.0	8.10	9516.5	0.0	8.06	- AL351	81070.5	97.46
258.0	-25.40	10624.5	0.0	-25.39	AL352	81328.5	72.06

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
268.5	27.00	9363.0	0.0	26.95	- AL353	81597.0	45.11
255.0	-15.90	10397.5	0.0	-15.94	- AL354	81852.0	29.17
247.0	2.70	9929.0	0.0	2.75	- AL355	82099.0	26.41
271.5	-0.85	10021.0	0.0	-0.89	- AL356	82370.5	25.52
229.0	-5.50	10152.5	0.0	-5.48	- AL357	82599.5	20.03
227.0	3.90	9890.0	0.0	3.92	- AL358	82826.5	16.11
256.0	-2.50	10062.5	0.0	-2.51	- AL359	83082.5	13.59
215.0	1.20	9965.5	0.0	1.16	- AL360	83297.5	12.43
374.5	-9.05	10152.5	0.0	-8.97	- AL361	83672.0	3.46
175.0	-4.20	10153.0	0.0	-4.20	- AL362	83847.0	7.66
235.0	12.90	9654.0	0.0	12.78	- AL363	84082.0	20.45
425.0	-19.20	10286.5	0.0	-19.13	- AL364	84507.0	39.59
271.0	-1.15	10026.5	0.0	-1.12	- AL365	84778.0	38.46
298.5	6.10	9871.0	0.0	6.04	- AL366	85076.5	32.41
192.0	-5.35	10178.0	0.0	-5.36	- AL367	85268.5	27.04
255.0	17.20	9573.0	0.0	17.12	- AL368	85523.5	9.91
211.5	2.50	9926.5	0.0	2.44	- AL369	85735.0	12.35
227.0	-7.45	10210.5	0.0	-7.50	- AL370	85962.0	19.86
137.0	2.25	9893.0	0.0	2.30	- AL371	86099.0	22.16
241.0	-24.50	10646.5	0.0	-24.55	- AL372	86340.0	46.72
224.0	28.50	9190.5	0.0	28.63	- AL373	86564.0	75.36
78.5	-2.80	10230.5	0.0	-2.84	- AL374	86642.5	78.20
260.0	25.00	9387.5	0.0	25.09	- AL375	86902.5	103.29
291.5	-35.00	10766.5	0.0	-35.26	*- AL376	87194.0	138.56
128.0	14.80	9268.5	0.0	14.77	- AL377	87322.0	153.33
175.0	6.60	9762.5	0.0	6.53	- AL378	87497.0	146.80
277.0	-14.00	10321.5	0.0	-14.00	- AL379	87774.0	132.80
280.5	6.30	9857.5	0.0	6.27	- AL380	88054.5	126.52
200.0	-5.00	10158.5	0.0	-4.98	- AL381	88254.5	121.54
137.0	2.70	9876.5	0.0	2.65	- AL382	88391.5	118.88
142.0	-8.50	10383.5	0.0	-8.56	- AL383	88533.5	110.32
220.0	23.40	9324.5	0.0	23.43	- AL384	88753.5	86.89
213.0	-18.60	10553.5	0.0	-18.56	- AL385	88966.5	68.32
226.5	23.90	9330.0	0.0	23.92	- AL386	89193.0	44.40
318.0	-20.00	10399.5	0.0	-19.98	- AL387	89511.0	24.41
215.0	-1.40	10041.5	0.0	-1.40	- AL388	89726.0	25.82
280.5	-3.70	10085.0	0.0	-3.74	- AL389	90006.5	22.07

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
46352.0	67.00				AL179	46352.0	67.00
0.0	0.00						
103.0	4.80	9704.0	0.0	4.79	- ST001	46455.0	62.20
125.0	9.10	9535.0	0.0	9.14	ST002	46580.0	71.35
76.0	-2.80	10239.0	0.0	-2.85	- ST003	46656.0	74.20
187.0	-19.80	10672.0	0.0	-19.81	ST004	46843.0	54.39
181.0	11.30	9604.0	0.0	11.27	- ST005	47024.0	43.12
283.0	-6.10	10137.0	0.0	-6.09	ST006	47307.0	37.03
194.5	-15.10	10493.0	0.0	-15.09	- ST007	47501.5	52.12
135.0	10.10	9522.0	0.0	10.15	ST009	47636.5	62.27
252.5	14.10	9647.0	0.0	14.01	- ST010	47889.0	48.26
421.5	-4.20	10064.0	0.0	-4.23	ST012	48310.5	44.02
141.0	-4.60	10210.0	0.0	-4.65	- ST013	48451.5	48.67
237.0	.20	9997.0	0.0	.11	ST014	48688.5	48.79
178.0	-1.10	10040.0	0.0	-1.11	- ST015	48866.5	49.90
80.5	-6.00	10475.0	0.0	-6.01	ST016	48947.0	43.89
95.0	4.50	9695.0	0.0	4.55	- ST017	49042.0	39.33
248.0	-17.20	10441.0	0.0	-17.20	ST019	49290.0	22.12
188.5	-23.00	10772.0	0.0	-22.97	- ST018	49478.5	45.10
248.5	-8.20	10210.0	0.0	-8.20	ST020	49727.0	36.90
214.0	3.90	9885.0	0.0	3.86	- ST021	49941.0	33.03
320.0	5.50	9891.0	0.0	5.47	ST023	50261.0	38.51
355.5	17.30	9692.0	0.0	17.21	- ST025	50616.5	21.30
101.0	-2.70	10171.0	0.0	-2.71	ST026	50717.5	18.58
233.0	11.40	9690.0	0.0	11.35	- ST027	50950.5	7.23
203.5	5.20	9838.0	0.0	5.17	ST028	51154.0	12.41
374.0	5.80	9901.0	0.0	5.81	- ST029	51528.0	6.59
274.0	.50	9989.0	0.0	.47	ST030	51802.0	7.06
245.0	.60	9987.0	0.0	.50	- ST031	52047.0	6.56
204.0	-2.30	10071.0	0.0	-2.27	ST032	52251.0	4.29
365.0	.60	9989.0	0.0	.63	- ST033	52616.0	3.66
255.0	-2.60	10065.0	0.0	-2.60	ST034	52871.0	1.05
252.5	.50	9988.0	0.0	.47	- ST035	53123.5	.58
330.5	0.00	9999.0	0.0	.05	ST036	53454.0	.63
217.0	.10	9994.0	0.0	.20	- ST037	53671.0	.43
223.0	.20	9995.0	0.0	.17	ST038	53894.0	.60
244.0	.10	9996.0	0.0	.15	- ST039	54138.0	.45
332.0	1.10	9978.0	0.0	1.14	ST040	54470.0	1.60
382.5	1.20	9983.0	0.0	1.02	- ST041	54852.5	.57
147.0	.90	9961.0	0.0	.90	ST042	54999.5	1.47

DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
314.5	0.00	10000.0	0.0	0.00	- ST043	55314.0	1.47
274.5	-.30	10005.0	0.0	-.21	- ST044	55588.5	1.26
230.5	-.20	10005.5	0.0	-.19	- ST045	55819.0	1.46
225.5	-.20	10004.5	0.0	-.15	- ST046	56044.5	1.30
240.0	-.50	10014.0	0.0	-.52	- ST047	56284.5	1.83
245.0	-.30	10006.0	0.0	-.23	- ST048	56529.5	1.60
248.0	.40	9990.5	0.0	.37	- ST049	56777.5	1.23
237.0	-.40	10010.5	0.0	-.39	- ST050	57014.5	.83
238.0	.10	9996.0	0.0	.14	- ST051	57252.5	.68
263.0	-.10	10003.0	0.0	-.12	- ST052	57515.5	.56
123.0	-4.10	10209.5	0.0	-4.04	- ST053	57638.5	4.61
287.0	.70	9985.0	0.0	.67	- ST054	57925.5	5.29
243.0	4.70	9876.0	0.0	4.73	- ST055	58168.5	.55
211.5	0.00	10000.0	0.0	0.00	- ST056	58380.0	.55
244.5	-.20	10004.5	0.0	-.17	- ST057	58624.5	.73
239.0	2.70	9929.5	0.0	2.64	- ST058	58863.5	3.37
344.0	2.40	9956.0	0.0	2.37	- ST059	59207.5	.99
361.0	.40	9993.5	0.0	.36	- ST060	59568.5	1.36
234.5	.20	9996.0	0.0	.14	- ST061	59803.0	1.22
194.0	-.20	10007.0	0.0	-.21	- ST062	59997.0	1.00
258.0	-.40	10010.5	0.0	-.42	- ST063	60255.0	1.43
259.0	-.30	10006.5	0.0	-.26	- ST064	60514.0	1.16
270.5	0.00	10002.0	0.0	-.08	- ST065	60784.5	1.25
257.0	0.00	9999.0	0.0	.04	- ST066	61041.5	1.29
257.0	-.30	10008.0	0.0	-.32	- ST067	61298.5	1.61
260.0	-.50	10014.5	0.0	-.59	- ST068	61558.5	1.02
269.5	-.20	10005.0	0.0	-.21	- ST069	61828.0	1.23
250.0	-.30	10009.0	0.0	-.35	- ST070	62078.0	.88
250.0	.20	9996.0	0.0	.15	- ST071	62328.0	.72
225.0	-.20	10006.0	0.0	-.21	- ST072	62553.0	.51
140.0	-3.20	10146.0	0.0	-3.21	- ST073	62693.0	3.72
234.0	-3.20	10089.0	0.0	-3.27	- ST074	62927.0	.45
238.0	0.00	10001.5	0.0	-.05	- ST075	63165.0	.50
240.0	2.40	9935.0	0.0	2.45	- ST076	63405.0	2.96
221.0	-5.40	10157.0	0.0	-5.45	- ST077	63626.0	8.41
81.0	3.60	9716.0	0.0	3.61	- ST078	63707.0	12.02
245.0	11.40	9703.5	0.0	11.41	- ST079	63952.0	.60
369.0	8.40	9855.5	0.0	8.37	- ST080	64321.0	8.98
18.0	.20	9914.5	0.0	.24	- ST080B	64339.0	8.74
55.0	-.40	10043.5	0.0	-.37	- ST081	64394.0	8.36



DISTANCE	DIFF/M	ANGLE	S-I	DIFF/C	NAME	LENGTH	ELEVATION
635.5	7.50	9926.0	0.0	7.38	- ST083	65029.5	.98
265.0	-20	10006.0	0.0	-.24	ST084	65294.5	.73
176.0	0.00	10000.0	0.0	0.00	- ST085	65470.5	.73
110.0	.60	9965.0	0.0	.60	ST086	65580.5	1.33
134.0	-.30	10012.0	0.0	-.25	- ST087	65714.5	1.58
231.5	-.40	10012.0	0.0	-.43	ST088	65946.0	1.15
252.0	-4.20	10105.0	0.0	-4.15	- ST089	66198.0	5.30
327.5	1.00	9982.0	0.0	.92	ST090	66525.5	6.23
179.0	1.40	9950.0	0.0	1.40	- ST091	66704.5	4.82
271.0	-4.10	10099.0	0.0	-4.21	ST092	66975.5	.61
245.0	-2.40	10064.0	0.0	-2.46	- ST093	67220.5	3.07
117.0	.10	9997.0	0.0	.05	ST094	67337.5	3.13
258.0	2.80	9930.0	0.0	2.83	- ST095	67595.5	.29
355.0	-4.80	9917.0	0.0	4.62	ST096	67950.5	4.92
201.0	-3.30	10105.0	0.0	-3.31	- ST097	68151.5	8.23
204.0	-4.00	10126.5	0.0	-4.05	ST098	68355.5	4.18
310.0	2.00	9960.0	0.0	1.94	- ST099	68665.5	2.23
317.0	-2.20	10006.0	0.0	-.29	ST100	68982.5	1.93
620.0	7.40	9924.0	0.0	7.40	ST101	69602.5	9.34

