

To find your directions go across the top row to the correct starting point column. Then follow it down to the row that has the right ending point. Read your degree and distance.

Ridge	Location	Amphitheater Stage		Blank Pool Showers		Chaplain's Cabin		Chipewa Shelter		Chippewa Latrine		Clayman Chapel		Deere Conf Center		Dining Hall		Directors Cabin		Flags		Fox Latrine	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Blank	Amphitheater Stage			66°	939'	5°	548'	77°	367'	96°	271'	351°	191'	67°	1,119'	344°	684'	80°	1,037'	330°	495'	295°	557'
Blank	Blank Pool Showers	246°	939'			282°	834'	240°	582'	236°	715'	258°	910'	72°	180'	285°	1,090'	139°	245'	273°	1,108'	264°	1,372'
Blank	Chaplain's Cabin	185°	548'	102°	834'			146°	557'	159°	616'	192°	365'	97°	994'	295°	262'	110°	1,038'	248°	314'	241°	630'
Blank	Chipewa Shelter	257°	367'	60°	582'	326°	557'			218°	141'	285°	401'	63°	759'	316°	794'	81°	671'	300°	695'	280°	874'
Blank	Chippewa Latrine	276°	271'	56°	715'	339°	616'	38°	141'			306°	370'	59°	890'	326°	825'	74°	780'	311°	689'	289°	818'
Blank	Clayman Chapel	171°	191'	78°	910'	12°	365'	105°	401'	126°	370'			77°	1,089'	341°	495'	90°	1,050'	318°	323'	276°	476'
Blank	Deere Conf Center	247°	1,119'	252°	180'	277°	994'	243°	759'	239°	890'	257°	1,089'			280°	1,245'	183°	243'	270°	1,278'	263°	1,548'
Blank	Dining Hall	164°	684'	105°	1,090'	115°	262'	136°	794'	146°	825'	161°	495'	100°	1,245'			111°	1,299'	193°	234'	217°	523'
Blank	Directors Cabin	260°	1,037'	319°	245'	290°	1,038'	261°	671'	254°	780'	270°	1,050'	3°	243'	291°	1,299'			281°	1,289'	272°	1,525'
Blank	Flags	150°	495'	93°	1,108'	68°	314'	120°	695'	131°	689'	138°	323'	90°	1,278'	13°	234'	101°	1,289'			233°	322'
Blank	Fox Latrine	115°	557'	84°	1,372'	61°	630'	100°	874'	109°	818'	96°	476'	83°	1,548'	37°	523'	92°	1,525'	53°	322'		
Blank	Friendship Circle	252°	811'	36°	152'	292°	783'	248°	447'	241°	573'	266°	803'	55°	317'	293°	1,045'	104°	257'	280°	1,032'	269°	1,275'
Blank	Health Lodge	262°	1,285'	295°	455'	287°	1,280'	264°	920'	258°	1,023'	270°	1,302'	316°	348'	288°	1,540'	272°	252'	279°	1,538'	272°	1,777'
Blank	Leader Showers	223°	535'	92°	498'	296°	353'	181°	309'	192°	430'	243°	443'	87°	670'	295°	615'	107°	688'	273°	610'	260°	881'
Blank	Mort Miles Lodge	266°	538'	43°	471'	316°	711'	286°	187'	257°	274'	285°	588'	51°	636'	311°	960'	72°	508'	297°	877'	281°	1,061'
Blank	Osage Latrine	100°	713'	81°	1,583'	61°	857'	92°	1,060'	99°	984'	85°	675'	80°	1,761'	44°	736'	88°	1,723'	56°	547'	61°	227'
Blank	Ottawa Latrine	292°	707'	18°	668'	323°	1,013'	319°	457'	301°	452'	303°	821'	28°	788'	317°	1,250'	39°	578'	307°	1,136'	293°	1,263'
Blank	Pawnee Latrine	129°	928'	97°	1,597'	93°	769'	115°	1,189'	122°	1,165'	120°	797'	95°	1,761'	82°	536'	103°	1,787'	108°	501'	148°	409'
Blank	Piegan Latrine	108°	990'	88°	1,804'	76°	1,016'	100°	1,317'	105°	1,256'	97°	919'	86°	1,978'	65°	829'	93°	1,965'	80°	707'	99°	443'
Blank	Quartermaster	237°	468'	76°	485'	310°	449'	191°	177'	203°	309'	261°	426'	75°	665'	304°	706'	96°	634'	285°	659'	269°	894'
Blank	Sac Latrine	140°	788'	100°	1,384'	96°	552'	121°	1,007'	129°	1,000'	131°	631'	96°	1,546'	81°	316'	105°	1,580'	124°	313'	180°	369'
Blank	Scoutmasters' Circle	160°	528'	97°	1,051'	77°	234'	127°	679'	139°	691'	153°	342'	93°	1,217'	357°	162'	104°	1,241'	224°	91'	231°	412'
Blank	Sioux West Latrine	99°	768'	81°	1,640'	62°	910'	92°	1,117'	98°	1,039'	85°	732'	80°	1,818'	47°	781'	88°	1,780'	59°	599'	65°	281'
Blank	S Entrance Monument	254°	1,737'	262°	814'	272°	1,624'	253°	1,370'	250°	1,488'	260°	1,723'	265°	638'	275°	1,868'	246°	712'	268°	1,915'	264°	2,186'
Blank	Thomas Lodge	259°	926'	347°	207'	293°	941'	261°	559'	253°	670'	271°	939'	25°	286'	294°	1,202'	82°	112'	282°	1,183'	273°	1,414'
Blank	Trading Post	207°	751'	120°	596'	248°	321'	179°	585'	186°	700'	218°	607'	109°	730'	269°	534'	125°	831'	248°	635'	243°	950'
Blank	Water Tower	151°	732'	102°	1,246'	103°	413'	128°	904'	137°	915'	144°	556'	98°	1,404'	84°	166'	108°	1,449'	152°	238'	200°	428'
Casady	Cayuga Latrine	178°	1,009'	125°	1,095'	170°	469'	157°	1,003'	164°	1,078'	180°	819'	118°	1,211'	204°	385'	128°	1,334'	200°	617'	211°	903'
Casady	Climbing Tower	236°	1,329'	213°	440'	259°	1,074'	228°	995'	227°	1,134'	244°	1,260'	192°	320'	266°	1,296'	188°	561'	257°	1,383'	252°	1,683'

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Ridge	Location	Amphitheater Stage		Blank Pool Showers		Chaplain's Cabin		Chipewa Shelter		Chippewa Latrine		Clayman Chapel		Deere Conf Center		Dining Hall		Directors Cabin		Flags		Fox Latrine	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Casady	Crow Adirondack	205°	1,200'	154°	793'	221°	713'	189°	1,014'	192°	1,139'	211°	1,047'	141°	837'	239°	823'	150°	1,032'	229°	1,002'	230°	1,322'
Casady	Crow Latrine	199°	1,241'	150°	919'	210°	723'	183°	1,090'	186°	1,208'	204°	1,076'	140°	971'	229°	789'	148°	1,160'	221°	989'	224°	1,305'
Casady	Fort Clatsop	200°	1,360'	157°	980'	210°	846'	186°	1,197'	189°	1,318'	205°	1,197'	146°	1,011'	227°	909'	153°	1,216'	220°	1,111'	223°	1,426'
Casady	Iriquois Latrine	184°	1,359'	142°	1,244'	184°	812'	168°	1,299'	173°	1,394'	186°	1,174'	135°	1,315'	202°	756'	142°	1,489'	200°	988'	208°	1,270'
Casady	Kickapoo Latrine	213°	1,053'	151°	578'	238°	629'	196°	825'	199°	957'	221°	920'	135°	636'	254°	802'	147°	819'	241°	940'	239°	1,259'
Casady	Kiowa Adirondack	194°	1,500'	155°	1,197'	199°	962'	180°	1,374'	183°	1,487'	197°	1,325'	146°	1,231'	214°	968'	152°	1,435'	210°	1,190'	215°	1,491'
Casady	Kiowa Latrine	189°	1,471'	149°	1,256'	191°	926'	174°	1,378'	178°	1,483'	191°	1,290'	142°	1,307'	207°	898'	148°	1,498'	204°	1,126'	211°	1,416'
Casady	Mohawk Latrine	210°	1,225'	160°	736'	227°	764'	194°	1,012'	197°	1,143'	216°	1,083'	146°	763'	243°	896'	155°	969'	233°	1,063'	233°	1,385'
Casady	Mohawk Shelter	212°	1,251'	164°	711'	230°	805'	198°	1,023'	200°	1,156'	219°	1,114'	150°	726'	245°	948'	158°	939'	235°	1,108'	235°	1,430'
Casady	Navajo Latrine	162°	1,223'	122°	1,472'	145°	750'	145°	1,307'	151°	1,356'	160°	1,034'	117°	1,593'	159°	539'	125°	1,708'	169°	745'	187°	932'
Casady	Onadaga Adirondack	198°	1,535'	160°	1,160'	204°	1,008'	184°	1,384'	187°	1,503'	201°	1,367'	151°	1,179'	219°	1,039'	156°	1,392'	214°	1,254'	218°	1,562'
Casady	Onadaga Latrine	200°	1,555'	163°	1,140'	208°	1,036'	187°	1,390'	190°	1,513'	204°	1,391'	154°	1,150'	222°	1,080'	159°	1,368'	217°	1,291'	220°	1,601'
Casady	Oneida Adirondack	205°	1,578'	170°	1,070'	215°	1,082'	193°	1,380'	195°	1,510'	210°	1,424'	160°	1,059'	228°	1,158'	164°	1,287'	223°	1,357'	225°	1,674'
Casady	Oneida Latrine	207°	1,613'	173°	1,066'	218°	1,126'	196°	1,403'	198°	1,534'	212°	1,463'	164°	1,044'	230°	1,212'	167°	1,277'	224°	1,407'	226°	1,725'
Casady	Scott Marshall Shelter	214°	1,582'	182°	931'	228°	1,139'	204°	1,334'	205°	1,471'	220°	1,449'	171°	884'	239°	1,265'	174°	1,123'	232°	1,438'	233°	1,759'
Casady	Seneca Latrine	175°	1,289'	133°	1,333'	168°	755'	159°	1,289'	164°	1,366'	176°	1,098'	127°	1,428'	187°	632'	134°	1,576'	189°	865'	200°	1,117'
Casady	Shotgun Shelter	225°	2,293'	211°	1,465'	235°	1,905'	219°	1,993'	219°	2,134'	229°	2,185'	206°	1,334'	241°	2,049'	202°	1,561'	237°	2,212'	236°	2,533'
Frankel	Bear Creek Lodge	338°	1,392'	12°	1,703'	346°	1,898'	353°	1,386'	349°	1,290'	340°	1,579'	17°	1,801'	340°	2,075'	19°	1,565'	336°	1,883'	326°	1,839'
Frankel	Blacksmith Shop	82°	1,726'	77°	2,641'	66°	1,919'	81°	2,091'	84°	1,990'	76°	1,732'	76°	2,821'	60°	1,759'	81°	2,762'	66°	1,606'	69°	1,294'
Frankel	Chanotedah Latrine	6°	797'	39°	1,504'	6°	1,344'	27°	982'	25°	844'	3°	983'	42°	1,658'	356°	1,453'	48°	1,479'	353°	1,231'	338°	1,110'
Frankel	Chanotedah Shelter	9°	747'	41°	1,482'	7°	1,294'	30°	949'	29°	809'	5°	931'	44°	1,640'	357°	1,397'	51°	1,467'	354°	1,174'	338°	1,049'
Frankel	Chief	283°	1,617'	315°	1,023'	300°	1,778'	290°	1,297'	284°	1,348'	289°	1,697'	325°	957'	300°	2,038'	314°	779'	293°	1,985'	286°	2,164'
Frankel	Cope Latrine	319°	1,279'	1°	1,347'	333°	1,709'	336°	1,158'	329°	1,099'	323°	1,445'	8°	1,418'	328°	1,924'	9°	1,176'	322°	1,767'	312°	1,801'
Frankel	Cope Shelter	319°	1,364'	359°	1,410'	332°	1,792'	335°	1,239'	328°	1,182'	323°	1,530'	6°	1,474'	327°	2,007'	6°	1,231'	322°	1,852'	312°	1,886'
Frankel	Dan Beard Trailhead	342°	1,361'	15°	1,730'	349°	1,879'	358°	1,381'	354°	1,277'	343°	1,550'	20°	1,835'	343°	2,045'	22°	1,604'	339°	1,847'	329°	1,787'
Frankel	Duplex	279°	1,634'	310°	980'	297°	1,760'	285°	1,301'	280°	1,363'	285°	1,702'	320°	898'	297°	2,022'	307°	740'	290°	1,981'	283°	2,174'
Frankel	Flaming Arrow Cabin	72°	1,451'	70°	2,388'	55°	1,741'	73°	1,817'	75°	1,703'	64°	1,495'	70°	2,568'	47°	1,628'	75°	2,483'	52°	1,438'	51°	1,116'
Frankel	Flaming Arrow Latrine	74°	1,486'	71°	2,420'	57°	1,759'	74°	1,852'	77°	1,740'	66°	1,522'	71°	2,601'	49°	1,637'	76°	2,520'	54°	1,453'	54°	1,131'
Frankel	Fort Madison	83°	1,836'	77°	2,751'	67°	2,024'	82°	2,202'	84°	2,102'	77°	1,841'	77°	2,930'	61°	1,858'	81°	2,873'	67°	1,710'	70°	1,400'

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Ridge	Location	Amphitheater Stage		Blank Pool Showers		Chaplain's Cabin		Chipewa Shelter		Chippewa Latrine		Clayman Chapel		Deere Conf Center		Dining Hall		Directors Cabin		Flags		Fox Latrine	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Frankel	Fort Pella	356°	584'	40°	1,258'	0°	1,128'	25°	735'	22°	599'	354°	775'	44°	1,415'	349°	1,261'	52°	1,243'	344°	1,052'	326°	986'
Frankel	Frankel Parking Latrine	56°	1,049'	61°	1,981'	39°	1,454'	62°	1,399'	64°	1,271'	48°	1,142'	62°	2,158'	29°	1,414'	68°	2,044'	32°	1,190'	24°	898'
Frankel	Frankel Pool Showers	53°	1,267'	59°	2,192'	39°	1,680'	59°	1,610'	60°	1,479'	46°	1,366'	60°	2,368'	30°	1,636'	65°	2,246'	33°	1,414'	27°	1,118'
Frankel	Frankel Trading Post	63°	1,161'	65°	2,099'	45°	1,521'	66°	1,519'	69°	1,397'	55°	1,233'	65°	2,278'	35°	1,452'	71°	2,176'	40°	1,238'	35°	929'
Frankel	Hopi Soapy	341°	1,002'	22°	1,428'	349°	1,520'	2°	1,033'	357°	923'	343°	1,191'	27°	1,551'	342°	1,686'	31°	1,333'	338°	1,490'	325°	1,446'
Frankel	Hoxie Cabin	345°	861'	28°	1,363'	353°	1,389'	8°	924'	3°	805'	346°	1,051'	33°	1,499'	344°	1,545'	38°	1,293'	340°	1,345'	326°	1,293'
Frankel	Hoxie Latrine	349°	739'	33°	1,317'	356°	1,275'	15°	839'	11°	711'	350°	930'	38°	1,463'	347°	1,422'	44°	1,271'	342°	1,217'	326°	1,157'
Frankel	Lake Front Latrine	47°	458'	60°	1,379'	24°	940'	60°	797'	64°	668'	31°	588'	61°	1,556'	8°	982'	70°	1,444'	7°	749'	343°	578'
Frankel	Lake Front Tower	24°	412'	54°	1,273'	13°	948'	48°	697'	51°	559'	13°	583'	56°	1,445'	359°	1,035'	64°	1,314'	354°	811'	331°	702'
Frankel	Longhouse	282°	1,475'	319°	896'	301°	1,637'	290°	1,154'	283°	1,206'	289°	1,554'	331°	845'	300°	1,898'	319°	651'	294°	1,842'	286°	2,021'
Frankel	Monroe	281°	1,628'	313°	1,004'	299°	1,772'	287°	1,302'	282°	1,358'	287°	1,703'	322°	931'	298°	2,033'	311°	762'	292°	1,986'	284°	2,172'
Frankel	Newplex	279°	1,748'	306°	1,075'	296°	1,866'	284°	1,414'	279°	1,477'	284°	1,815'	315°	982'	296°	2,128'	302°	839'	289°	2,091'	283°	2,287'
Frankel	Old Quartermaster	53°	1,394'	59°	2,318'	40°	1,803'	58°	1,737'	60°	1,605'	47°	1,492'	60°	2,494'	32°	1,753'	65°	2,370'	35°	1,533'	30°	1,232'
Frankel	Old Ranger	284°	1,571'	319°	1,013'	302°	1,749'	292°	1,258'	286°	1,303'	291°	1,657'	329°	959'	302°	2,009'	319°	768'	295°	1,949'	287°	2,121'
Frankel	Pine Lodge	57°	1,399'	61°	2,330'	43°	1,787'	61°	1,748'	63°	1,619'	50°	1,487'	62°	2,508'	35°	1,725'	67°	2,390'	38°	1,509'	34°	1,202'
Frankel	Richey Nature Cabin	76°	1,744'	73°	2,675'	61°	1,989'	76°	2,111'	79°	2,002'	70°	1,771'	73°	2,855'	54°	1,848'	77°	2,780'	59°	1,678'	61°	1,359'
Frankel	Sawtelle Shelter	68°	1,588'	67°	2,527'	53°	1,900'	69°	1,951'	72°	1,832'	61°	1,642'	68°	2,706'	45°	1,793'	72°	2,612'	50°	1,599'	49°	1,278'
Frankel	Shop Office	276°	1,899'	299°	1,172'	292°	1,985'	280°	1,557'	276°	1,628'	281°	1,956'	306°	1,057'	292°	2,246'	293°	947'	286°	2,223'	280°	2,431'
Frankel	Tew Cabin	69°	1,682'	68°	2,620'	55°	1,980'	71°	2,046'	73°	1,928'	63°	1,731'	68°	2,800'	48°	1,865'	73°	2,709'	52°	1,677'	52°	1,355'
Frankel	Uncle Bade's Cabin	79°	1,829'	75°	2,753'	64°	2,047'	78°	2,195'	81°	2,090'	73°	1,846'	74°	2,933'	58°	1,894'	79°	2,866'	63°	1,735'	65°	1,419'
Frankel	Wakan Latrine	29°	795'	50°	1,645'	19°	1,313'	44°	1,078'	45°	938'	22°	953'	52°	1,813'	8°	1,364'	58°	1,663'	7°	1,131'	353°	937'
Frankel	Wakan Shelter	23°	719'	48°	1,542'	15°	1,252'	40°	981'	41°	840'	16°	888'	50°	1,708'	4°	1,323'	57°	1,553'	2°	1,092'	346°	928'
Frankel	Windmill	82°	1,840'	77°	2,758'	66°	2,035'	81°	2,206'	83°	2,105'	76°	1,848'	76°	2,937'	60°	1,873'	81°	2,877'	66°	1,722'	69°	1,410'
Frankel	Zuni Shelter	330°	868'	21°	1,207'	343°	1,355'	355°	840'	347°	744'	334°	1,049'	27°	1,328'	336°	1,542'	32°	1,110'	330°	1,363'	317°	1,362'
Frankel	Zuni Soapy	326°	806'	21°	1,122'	342°	1,281'	353°	759'	344°	667'	331°	983'	28°	1,245'	334°	1,473'	34°	1,030'	328°	1,300'	314°	1,316'

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Ridge	Location	Friendship Circle		Health Lodge		Leader Showers		Mort Miles Lodge		Osage Latrine		Ottawa Latrine		Pawnee Latrine		Piegan Latrine		Quartermaster		Sac Latrine		Scoutmasters' Circle	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Blank	Amphitheater Stage	72°	811'	82°	1,285'	43°	535'	86°	538'	280°	713'	112°	707'	309°	928'	288°	990'	57°	468'	320°	788'	340°	528'
Blank	Blank Pool Showers	216°	152'	115°	455'	272°	498'	223°	471'	261°	1,583'	198°	668'	277°	1,597'	268°	1,804'	256°	485'	280°	1,384'	277°	1,051'
Blank	Chaplain's Cabin	112°	783'	107°	1,280'	116°	353'	136°	711'	241°	857'	143°	1,013'	273°	769'	256°	1,016'	130°	449'	276°	552'	257°	234'
Blank	Chipewa Shelter	68°	447'	84°	920'	1°	309'	106°	187'	272°	1,060'	139°	457'	295°	1,189'	280°	1,317'	11°	177'	301°	1,007'	307°	679'
Blank	Chippewa Latrine	61°	573'	78°	1,023'	12°	430'	77°	274'	279°	984'	121°	452'	302°	1,165'	285°	1,256'	23°	309'	309°	1,000'	319°	691'
Blank	Clayman Chapel	86°	803'	90°	1,302'	63°	443'	105°	588'	265°	675'	123°	821'	300°	797'	277°	919'	81°	426'	311°	631'	333°	342'
Blank	Deere Conf Center	235°	317'	136°	348'	267°	670'	231°	636'	260°	1,761'	208°	788'	275°	1,761'	266°	1,978'	255°	665'	276°	1,546'	273°	1,217'
Blank	Dining Hall	113°	1,045'	108°	1,540'	115°	615'	131°	960'	224°	736'	137°	1,250'	262°	536'	245°	829'	124°	706'	261°	316'	177°	162'
Blank	Directors Cabin	284°	257'	92°	252'	287°	688'	252°	508'	268°	1,723'	219°	578'	283°	1,787'	273°	1,965'	276°	634'	285°	1,580'	284°	1,241'
Blank	Flags	100°	1,032'	99°	1,538'	93°	610'	117°	877'	236°	547'	127°	1,136'	288°	501'	260°	707'	105°	659'	304°	313'	44°	91'
Blank	Fox Latrine	89°	1,275'	92°	1,777'	80°	881'	101°	1,061'	241°	227'	113°	1,263'	328°	409'	279°	443'	89°	894'	0°	369'	51°	412'
Blank	Friendship Circle			98°	506'	289°	432'	227°	320'	265°	1,478'	193°	526'	282°	1,530'	272°	1,714'	271°	381'	286°	1,323'	284°	984'
Blank	Health Lodge	278°	506'			283°	934'	259°	750'	268°	1,975'	234°	757'	281°	2,035'	273°	2,217'	275°	885'	283°	1,826'	282°	1,489'
Blank	Leader Showers	109°	432'	103°	934'			154°	400'	256°	1,098'	156°	717'	280°	1,102'	266°	1,308'	169°	138'	284°	893'	281°	555'
Blank	Mort Miles Lodge	47°	320'	79°	750'	334°	400'			274°	1,242'	158°	318'	294°	1,374'	280°	1,503'	327°	269'	299°	1,188'	303°	855'
Blank	Osage Latrine	85°	1,478'	88°	1,975'	76°	1,098'	94°	1,242'			106°	1,413'	357°	456'	306°	298'	83°	1,100'	22°	519'	55°	637'
Blank	Ottawa Latrine	13°	526'	54°	757'	336°	717'	338°	318'	286°	1,413'			301°	1,617'	289°	1,696'	333°	584'	307°	1,449'	312°	1,130'
Blank	Pawnee Latrine	102°	1,530'	101°	2,035'	100°	1,102'	114°	1,374'	177°	456'	121°	1,617'			218°	355'	106°	1,159'	84°	220'	99°	547'
Blank	Piegan Latrine	92°	1,714'	93°	2,217'	86°	1,308'	100°	1,503'	126°	298'	109°	1,696'	38°	355'			92°	1,333'	55°	533'	76°	783'
Blank	Quartermaster	91°	381'	95°	885'	349°	138'	147°	269'	263°	1,100'	153°	584'	286°	1,159'	272°	1,333'			291°	959'	292°	620'
Blank	Sac Latrine	106°	1,323'	103°	1,826'	104°	893'	119°	1,188'	202°	519'	127°	1,449'	264°	220'	235°	533'	111°	959'			109°	340'
Blank	Scoutmasters' Circle	104°	984'	102°	1,489'	101°	555'	123°	855'	235°	637'	132°	1,130'	279°	547'	256°	783'	112°	620'	289°	340'		
Blank	Sioux West Latrine	85°	1,536'	88°	2,032'	76°	1,155'	94°	1,299'	84°	57'	105°	1,466'	4°	463'	315°	259'	83°	1,157'	28°	549'	57°	687'
Blank	S Entrance Monument	256°	926'	233°	499'	266°	1,308'	248°	1,217'	261°	2,397'	234°	1,255'	272°	2,393'	266°	2,616'	260°	1,298'	273°	2,175'	270°	1,851'
Blank	Thomas Lodge	299°	159'	89°	363'	292°	588'	249°	398'	268°	1,612'	210°	503'	284°	1,682'	274°	1,855'	279°	526'	287°	1,478'	286°	1,138'
Blank	Trading Post	134°	598'	118°	1,051'	176°	277'	163°	665'	243°	1,177'	161°	982'	265°	1,069'	254°	1,335'	173°	414'	266°	848'	252°	553'
Blank	Water Tower	109°	1,193'	106°	1,692'	109°	761'	124°	1,080'	214°	618'	132°	1,356'	261°	370'	240°	675'	117°	839'	257°	151'	130°	226'
Casady	Cayuga Latrine	133°	1,104'	122°	1,546'	147°	731'	150°	1,129'	217°	1,107'	151°	1,444'	238°	811'	232°	1,150'	151°	861'	230°	619'	196°	534'
Casady	Climbing Tower	214°	592'	163°	589'	245°	817'	218°	908'	251°	1,906'	204°	1,099'	265°	1,831'	258°	2,090'	236°	861'	265°	1,611'	259°	1,308'

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Ridge	Location	Friendship Circle		Health Lodge		Leader Showers		Mort Miles Lodge		Osage Latrine		Ottawa Latrine		Pawnee Latrine		Piegan Latrine		Quartermaster		Sac Latrine		Scoutmasters' Circle	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Casady	Crow Adirondack	163°	874'	140°	1,184'	192°	708'	179°	1,053'	232°	1,546'	174°	1,355'	248°	1,332'	242°	1,650'	188°	837'	245°	1,122'	230°	911'
Casady	Crow Latrine	158°	991'	139°	1,318'	183°	781'	173°	1,148'	227°	1,524'	170°	1,456'	242°	1,273'	237°	1,604'	181°	915'	238°	1,071'	221°	897'
Casady	Fort Clatsop	164°	1,065'	144°	1,355'	187°	889'	177°	1,244'	226°	1,644'	173°	1,547'	240°	1,383'	236°	1,718'	185°	1,020'	236°	1,185'	220°	1,020'
Casady	Iriquois Latrine	149°	1,294'	135°	1,663'	165°	999'	162°	1,395'	213°	1,466'	161°	1,712'	227°	1,127'	225°	1,479'	165°	1,137'	219°	960'	198°	905'
Casady	Kickapoo Latrine	163°	656'	135°	984'	204°	532'	183°	847'	240°	1,486'	176°	1,143'	257°	1,335'	249°	1,626'	197°	649'	256°	1,117'	243°	853'
Casady	Kiowa Adirondack	161°	1,277'	144°	1,575'	179°	1,065'	173°	1,437'	218°	1,698'	170°	1,746'	231°	1,386'	228°	1,734'	178°	1,201'	225°	1,207'	209°	1,101'
Casady	Kiowa Latrine	155°	1,324'	140°	1,654'	172°	1,072'	167°	1,457'	215°	1,617'	166°	1,771'	227°	1,284'	225°	1,636'	172°	1,209'	220°	1,115'	203°	1,041'
Casady	Mohawk Latrine	169°	830'	143°	1,108'	200°	715'	184°	1,034'	234°	1,610'	178°	1,327'	250°	1,414'	244°	1,725'	195°	835'	248°	1,201'	234°	973'
Casady	Mohawk Shelter	173°	814'	145°	1,068'	204°	732'	187°	1,034'	236°	1,656'	180°	1,320'	251°	1,469'	245°	1,777'	199°	847'	249°	1,255'	236°	1,019'
Casady	Navajo Latrine	128°	1,470'	121°	1,925'	136°	1,071'	141°	1,456'	197°	1,083'	144°	1,762'	210°	671'	213°	1,023'	139°	1,189'	192°	568'	163°	696'
Casady	Onadaga Adirondack	166°	1,251'	148°	1,518'	185°	1,076'	177°	1,433'	221°	1,773'	174°	1,736'	233°	1,477'	230°	1,822'	183°	1,208'	228°	1,292'	214°	1,164'
Casady	Onadaga Latrine	169°	1,237'	150°	1,485'	189°	1,083'	180°	1,431'	223°	1,815'	176°	1,730'	235°	1,528'	232°	1,871'	186°	1,214'	230°	1,340'	216°	1,200'
Casady	Oneida Adirondack	175°	1,180'	154°	1,385'	197°	1,080'	186°	1,402'	227°	1,893'	181°	1,689'	239°	1,631'	235°	1,967'	194°	1,204'	235°	1,435'	223°	1,266'
Casady	Oneida Latrine	178°	1,182'	157°	1,363'	200°	1,106'	188°	1,415'	228°	1,945'	183°	1,697'	240°	1,691'	236°	2,025'	196°	1,226'	236°	1,493'	224°	1,315'
Casady	Scott Marshall Shelter	187°	1,060'	161°	1,187'	210°	1,055'	196°	1,321'	234°	1,984'	189°	1,584'	246°	1,771'	241°	2,092'	206°	1,162'	243°	1,563'	233°	1,348'
Casady	Seneca Latrine	139°	1,360'	129°	1,772'	152°	1,011'	153°	1,410'	207°	1,299'	153°	1,727'	221°	929'	220°	1,284'	154°	1,143'	210°	782'	185°	792'
Casady	Shotgun Shelter	211°	1,617'	193°	1,493'	225°	1,759'	214°	1,927'	237°	2,759'	207°	2,121'	246°	2,558'	242°	2,877'	221°	1,838'	244°	2,349'	238°	2,123'
Frankel	Bear Creek Lodge	9°	1,566'	27°	1,656'	355°	1,693'	1°	1,326'	319°	1,870'	8°	1,042'	327°	2,247'	318°	2,162'	355°	1,556'	332°	2,156'	339°	1,920'
Frankel	Blacksmith Shop	79°	2,528'	82°	3,010'	73°	2,165'	83°	2,262'	70°	1,069'	91°	2,367'	51°	1,279'	55°	935'	77°	2,156'	55°	1,468'	65°	1,691'
Frankel	Chanotedah Latrine	39°	1,351'	54°	1,671'	21°	1,268'	37°	1,034'	326°	1,105'	54°	914'	335°	1,514'	322°	1,389'	24°	1,153'	343°	1,459'	356°	1,291'
Frankel	Chanotedah Shelter	42°	1,330'	57°	1,665'	23°	1,229'	40°	1,011'	326°	1,043'	58°	909'	335°	1,452'	322°	1,328'	27°	1,118'	344°	1,399'	357°	1,235'
Frankel	Chief	307°	1,009'	330°	615'	302°	1,426'	290°	1,111'	282°	2,330'	276°	926'	292°	2,484'	285°	2,604'	297°	1,336'	295°	2,293'	296°	1,955'
Frankel	Cope Latrine	357°	1,225'	21°	1,234'	341°	1,443'	344°	1,047'	306°	1,886'	346°	732'	315°	2,198'	306°	2,184'	340°	1,307'	320°	2,067'	325°	1,783'
Frankel	Cope Shelter	355°	1,292'	18°	1,274'	340°	1,521'	342°	1,124'	306°	1,969'	343°	808'	315°	2,283'	306°	2,267'	339°	1,386'	320°	2,152'	325°	1,868'
Frankel	Dan Beard Trailhead	13°	1,589'	30°	1,707'	358°	1,690'	5°	1,335'	322°	1,808'	13°	1,063'	329°	2,195'	320°	2,097'	359°	1,554'	334°	2,112'	342°	1,888'
Frankel	Duplex	301°	982'	322°	551'	297°	1,407'	285°	1,114'	279°	2,347'	269°	957'	290°	2,481'	282°	2,616'	293°	1,326'	292°	2,285'	293°	1,946'
Frankel	Flaming Arrow Cabin	72°	2,263'	76°	2,725'	64°	1,937'	76°	1,976'	49°	893'	84°	2,044'	32°	1,229'	30°	877'	68°	1,907'	39°	1,377'	51°	1,528'
Frankel	Flaming Arrow Latrine	73°	2,297'	77°	2,763'	66°	1,964'	77°	2,014'	53°	906'	86°	2,088'	35°	1,223'	34°	869'	70°	1,938'	42°	1,379'	54°	1,543'
Frankel	Fort Madison	79°	2,638'	82°	3,121'	74°	2,273'	83°	2,373'	72°	1,176'	91°	2,478'	53°	1,370'	58°	1,032'	77°	2,266'	57°	1,564'	66°	1,794'

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Ridge	Location	Friendship Circle		Health Lodge		Leader Showers		Mort Miles Lodge		Osage Latrine		Ottawa Latrine		Pawnee Latrine		Piegan Latrine		Quartermaster		Sac Latrine		Scoutmasters' Circle	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Frankel	Fort Pella	41°	1,106'	58°	1,444'	18°	1,026'	39°	788'	313°	1,029'	62°	691'	327°	1,395'	312°	1,326'	22°	908'	335°	1,309'	348°	1,101'
Frankel	Frankel Parking Latrine	63°	1,843'	70°	2,276'	52°	1,574'	66°	1,538'	14°	728'	78°	1,563'	7°	1,174'	356°	888'	56°	1,517'	17°	1,244'	33°	1,279'
Frankel	Frankel Pool Showers	61°	2,053'	68°	2,473'	50°	1,796'	63°	1,743'	20°	937'	74°	1,746'	12°	1,370'	4°	1,062'	54°	1,734'	21°	1,455'	34°	1,504'
Frankel	Frankel Trading Post	67°	1,966'	73°	2,412'	57°	1,672'	70°	1,668'	27°	731'	81°	1,712'	16°	1,150'	6°	833'	61°	1,626'	25°	1,249'	40°	1,329'
Frankel	Hopi Soapy	20°	1,281'	40°	1,473'	2°	1,342'	12°	1,004'	316°	1,485'	26°	763'	326°	1,854'	315°	1,780'	3°	1,208'	332°	1,761'	341°	1,529'
Frankel	Hoxie Cabin	27°	1,213'	46°	1,455'	6°	1,232'	20°	919'	316°	1,332'	37°	715'	326°	1,702'	314°	1,627'	9°	1,101'	333°	1,611'	343°	1,387'
Frankel	Hoxie Latrine	33°	1,165'	51°	1,451'	11°	1,141'	28°	857'	315°	1,196'	48°	697'	327°	1,566'	314°	1,492'	14°	1,016'	334°	1,479'	345°	1,262'
Frankel	Lake Front Latrine	63°	1,241'	73°	1,680'	45°	993'	68°	937'	320°	575'	87°	991'	337°	978'	315°	868'	52°	923'	349°	937'	10°	824'
Frankel	Lake Front Tower	56°	1,128'	69°	1,542'	34°	934'	60°	813'	313°	736'	82°	830'	330°	1,110'	311°	1,033'	41°	844'	341°	1,041'	359°	873'
Frankel	Longhouse	310°	873'	341°	515'	303°	1,286'	291°	967'	281°	2,188'	273°	787'	292°	2,341'	284°	2,462'	298°	1,195'	295°	2,150'	296°	1,813'
Frankel	Monroe	304°	998'	326°	586'	299°	1,420'	288°	1,115'	281°	2,341'	273°	943'	291°	2,486'	283°	2,613'	295°	1,334'	293°	2,292'	294°	1,954'
Frankel	Newplex	298°	1,086'	314°	634'	296°	1,514'	284°	1,227'	279°	2,461'	270°	1,071'	289°	2,592'	282°	2,729'	291°	1,435'	291°	2,394'	292°	2,055'
Frankel	Old Quartermaster	60°	2,178'	67°	2,596'	50°	1,922'	62°	1,868'	24°	1,044'	72°	1,865'	16°	1,467'	9°	1,148'	54°	1,861'	23°	1,563'	35°	1,623'
Frankel	Old Ranger	311°	989'	337°	625'	304°	1,400'	293°	1,072'	283°	2,283'	279°	874'	293°	2,447'	286°	2,559'	300°	1,305'	296°	2,258'	298°	1,921'
Frankel	Pine Lodge	62°	2,193'	69°	2,620'	53°	1,922'	65°	1,886'	28°	1,005'	75°	1,897'	19°	1,417'	12°	1,090'	57°	1,866'	26°	1,523'	38°	1,600'
Frankel	Richey Nature Cabin	75°	2,554'	79°	3,025'	68°	2,211'	78°	2,275'	61°	1,132'	86°	2,355'	44°	1,396'	46°	1,044'	72°	2,191'	49°	1,572'	59°	1,766'
Frankel	Sawtelle Shelter	69°	2,397'	74°	2,851'	62°	2,085'	72°	2,104'	47°	1,057'	81°	2,154'	32°	1,398'	30°	1,046'	65°	2,048'	39°	1,545'	50°	1,690'
Frankel	Shop Office	291°	1,202'	301°	718'	291°	1,633'	279°	1,371'	277°	2,611'	267°	1,235'	286°	2,724'	280°	2,874'	286°	1,564'	288°	2,522'	288°	2,182'
Frankel	Tew Cabin	70°	2,492'	75°	2,948'	63°	2,174'	73°	2,201'	50°	1,131'	81°	2,254'	36°	1,453'	35°	1,099'	66°	2,140'	42°	1,609'	52°	1,767'
Frankel	Uncle Bade's Cabin	77°	2,636'	80°	3,112'	71°	2,283'	81°	2,363'	66°	1,193'	88°	2,453'	49°	1,422'	52°	1,076'	74°	2,268'	53°	1,608'	62°	1,821'
Frankel	Wakan Latrine	51°	1,497'	62°	1,877'	35°	1,322'	52°	1,177'	339°	876'	68°	1,133'	345°	1,318'	331°	1,139'	39°	1,230'	355°	1,304'	10°	1,206'
Frankel	Wakan Shelter	49°	1,393'	61°	1,765'	31°	1,236'	50°	1,073'	332°	895'	67°	1,019'	340°	1,322'	326°	1,172'	36°	1,138'	350°	1,289'	5°	1,162'
Frankel	Windmill	79°	2,643'	82°	3,125'	73°	2,282'	83°	2,377'	71°	1,186'	90°	2,478'	52°	1,388'	57°	1,048'	77°	2,272'	56°	1,580'	65°	1,807'
Frankel	Zuni Shelter	19°	1,061'	42°	1,255'	357°	1,148'	8°	793'	308°	1,435'	25°	541'	319°	1,765'	308°	1,733'	358°	1,012'	325°	1,650'	334°	1,391'
Frankel	Zuni Soapy	19°	975'	44°	1,182'	355°	1,066'	7°	707'	305°	1,400'	27°	458'	317°	1,715'	305°	1,698'	356°	929'	323°	1,592'	331°	1,325'

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Ridge	Location	Sioux West Latrine		S Entrance Monument		Thomas Lodge		Trading Post		Water Tower		Cayuga Latrine		Climbing Tower		Crow Adirondack		Crow Latrine		Fort Clatsop		Iriquois Latrine	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Blank	Amphitheater Stage	279°	768'	74°	1,737'	79°	926'	27°	751'	331°	732'	358°	1,009'	56°	1,329'	25°	1,200'	19°	1,241'	20°	1,360'	4°	1,359'
Blank	Blank Pool Showers	261°	1,640'	82°	814'	167°	207'	300°	596'	282°	1,246'	305°	1,095'	33°	440'	334°	793'	330°	919'	337°	980'	322°	1,244'
Blank	Chaplain's Cabin	242°	910'	92°	1,624'	113°	941'	68°	321'	283°	413'	350°	469'	79°	1,074'	41°	713'	30°	723'	30°	846'	4°	812'
Blank	Chipewa Shelter	272°	1,117'	73°	1,370'	81°	559'	359°	585'	308°	904'	337°	1,003'	48°	995'	9°	1,014'	3°	1,090'	6°	1,197'	348°	1,299'
Blank	Chippewa Latrine	278°	1,039'	70°	1,488'	73°	670'	6°	700'	317°	915'	344°	1,078'	47°	1,134'	12°	1,139'	6°	1,208'	9°	1,318'	353°	1,394'
Blank	Clayman Chapel	265°	732'	80°	1,723'	91°	939'	38°	607'	324°	556'	360°	819'	64°	1,260'	31°	1,047'	24°	1,076'	25°	1,197'	6°	1,174'
Blank	Deere Conf Center	260°	1,818'	85°	638'	205°	286'	289°	730'	278°	1,404'	298°	1,211'	12°	320'	321°	837'	320°	971'	326°	1,011'	315°	1,315'
Blank	Dining Hall	227°	781'	95°	1,868'	114°	1,202'	89°	534'	264°	166'	24°	385'	86°	1,296'	59°	823'	49°	789'	47°	909'	22°	756'
Blank	Directors Cabin	268°	1,780'	66°	712'	262°	112'	305°	831'	288°	1,449'	308°	1,334'	8°	561'	330°	1,032'	328°	1,160'	333°	1,216'	322°	1,489'
Blank	Flags	239°	599'	88°	1,915'	102°	1,183'	68°	635'	332°	238'	20°	617'	77°	1,383'	49°	1,002'	41°	989'	40°	1,111'	20°	988'
Blank	Fox Latrine	245°	281'	84°	2,186'	93°	1,414'	63°	950'	20°	428'	31°	903'	72°	1,683'	50°	1,322'	44°	1,305'	43°	1,426'	28°	1,270'
Blank	Friendship Circle	265°	1,536'	76°	926'	119°	159'	314°	598'	289°	1,193'	313°	1,104'	34°	592'	343°	874'	338°	991'	344°	1,065'	329°	1,294'
Blank	Health Lodge	268°	2,032'	53°	499'	269°	363'	298°	1,051'	286°	1,692'	302°	1,546'	343°	589'	320°	1,184'	319°	1,318'	324°	1,355'	315°	1,663'
Blank	Leader Showers	256°	1,155'	86°	1,308'	112°	588'	356°	277'	289°	761'	327°	731'	65°	817'	12°	708'	3°	781'	7°	889'	345°	999'
Blank	Mort Miles Lodge	274°	1,299'	68°	1,217'	69°	398'	343°	665'	304°	1,080'	330°	1,129'	38°	908'	359°	1,053'	353°	1,148'	357°	1,244'	342°	1,395'
Blank	Osage Latrine	264°	57'	81°	2,397'	88°	1,612'	63°	1,177'	34°	618'	37°	1,107'	71°	1,906'	52°	1,546'	47°	1,524'	46°	1,644'	33°	1,466'
Blank	Ottawa Latrine	285°	1,466'	54°	1,255'	30°	503'	341°	982'	312°	1,356'	331°	1,444'	24°	1,099'	354°	1,355'	350°	1,456'	353°	1,547'	341°	1,712'
Blank	Pawnee Latrine	184°	463'	92°	2,393'	104°	1,682'	85°	1,069'	81°	370'	58°	811'	85°	1,831'	68°	1,332'	62°	1,273'	60°	1,383'	47°	1,127'
Blank	Piegan Latrine	135°	259'	86°	2,616'	94°	1,855'	74°	1,335'	60°	675'	52°	1,150'	78°	2,090'	62°	1,650'	57°	1,604'	56°	1,718'	45°	1,479'
Blank	Quartermaster	263°	1,157'	80°	1,298'	99°	526'	353°	414'	297°	839'	331°	861'	56°	861'	8°	837'	1°	915'	5°	1,020'	345°	1,137'
Blank	Sac Latrine	208°	549'	93°	2,175'	107°	1,478'	86°	848'	77°	151'	50°	619'	85°	1,611'	65°	1,122'	58°	1,071'	56°	1,185'	39°	960'
Blank	Scoutmasters' Circle	237°	687'	90°	1,851'	106°	1,138'	72°	553'	310°	226'	16°	534'	79°	1,308'	50°	911'	41°	897'	40°	1,020'	18°	905'
Blank	Sioux West Latrine			81°	2,454'	88°	1,669'	63°	1,230'	38°	656'	39°	1,147'	71°	1,962'	53°	1,595'	48°	1,570'	47°	1,689'	35°	1,503'
Blank	S Entrance Monument	261°	2,454'			248°	819'	278°	1,339'	274°	2,031'	287°	1,780'	295°	624'	298°	1,306'	299°	1,439'	304°	1,433'	299°	1,798'
Blank	Thomas Lodge	268°	1,669'	68°	819'			311°	753'	290°	1,349'	312°	1,258'	19°	601'	336°	995'	333°	1,119'	338°	1,184'	325°	1,435'
Blank	Trading Post	243°	1,230'	98°	1,339'	131°	753'			268°	700'	312°	506'	84°	763'	22°	450'	7°	508'	12°	620'	340°	730'
Blank	Water Tower	218°	656'	94°	2,031'	110°	1,349'	88°	700'			41°	491'	86°	1,462'	63°	975'	55°	930'	53°	1,046'	32°	848'
Casady	Cayuga Latrine	219°	1,147'	107°	1,780'	132°	1,258'	132°	506'	221°	491'			103°	1,164'	82°	549'	69°	468'	62°	573'	20°	371'
Casady	Climbing Tower	251°	1,962'	115°	624'	199°	601'	264°	763'	266°	1,462'	283°	1,164'			300°	683'	302°	818'	310°	822'	301°	1,177'

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Ridge	Location	Sioux West Latrine		S Entrance Monument		Thomas Lodge		Trading Post		Water Tower		Cayuga Latrine		Climbing Tower		Crow Adirondack		Crow Latrine		Fort Clatsop		Iriquois Latrine	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Casady	Crow Adirondack	233°	1,595'	118°	1,306'	156°	995'	202°	450'	243°	975'	262°	549'	120°	683'			310°	136'	349°	192'	303°	494'
Casady	Crow Latrine	228°	1,570'	119°	1,439'	153°	1,119'	187°	508'	235°	930'	249°	468'	122°	818'	130°	136'			34°	123'	301°	359'
Casady	Fort Clatsop	227°	1,689'	124°	1,433'	158°	1,184'	192°	620'	233°	1,046'	242°	573'	130°	822'	169°	192'	214°	123'			282°	387'
Casady	Iriquois Latrine	215°	1,503'	119°	1,798'	145°	1,435'	160°	730'	212°	848'	200°	371'	121°	1,177'	123°	494'	121°	359'	102°	387'		
Casady	Kickapoo Latrine	240°	1,538'	110°	1,159'	155°	778'	228°	317'	256°	966'	282°	625'	105°	539'	342°	218'	329°	342'	345°	410'	315°	679'
Casady	Kiowa Adirondack	220°	1,738'	127°	1,639'	157°	1,400'	181°	789'	221°	1,083'	220°	592'	134°	1,036'	157°	405'	169°	290'	146°	220'	248°	275'
Casady	Kiowa Latrine	216°	1,655'	124°	1,745'	152°	1,455'	171°	796'	215°	999'	209°	513'	129°	1,133'	142°	470'	147°	338'	125°	312'	231°	158'
Casady	Mohawk Latrine	235°	1,660'	119°	1,211'	161°	941'	214°	476'	246°	1,053'	265°	642'	123°	590'	282°	98'	298°	228'	328°	248'	300°	587'
Casady	Mohawk Shelter	237°	1,707'	120°	1,156'	165°	918'	220°	507'	248°	1,106'	266°	701'	126°	537'	280°	158'	294°	285'	318°	289'	298°	643'
Casady	Navajo Latrine	200°	1,106'	108°	2,161'	127°	1,627'	124°	877'	177°	523'	114°	383'	106°	1,542'	95°	897'	89°	789'	82°	866'	68°	518'
Casady	Onadaga Adirondack	222°	1,816'	129°	1,555'	161°	1,365'	189°	804'	225°	1,162'	227°	673'	138°	963'	173°	381'	191°	297'	176°	189'	254°	382'
Casady	Onadaga Latrine	224°	1,859'	131°	1,506'	163°	1,346'	193°	816'	227°	1,208'	231°	721'	141°	922'	182°	378'	202°	315'	195°	196'	256°	442'
Casady	Oneida Adirondack	228°	1,939'	133°	1,373'	169°	1,276'	203°	828'	233°	1,297'	239°	821'	148°	807'	205°	378'	226°	369'	232°	250'	263°	580'
Casady	Oneida Latrine	229°	1,992'	136°	1,330'	172°	1,272'	207°	861'	234°	1,353'	241°	881'	152°	780'	213°	416'	232°	423'	239°	308'	263°	647'
Casady	Scott Marshall Shelter	234°	2,034'	137°	1,129'	179°	1,131'	221°	842'	242°	1,417'	252°	973'	160°	598'	240°	442'	255°	507'	266°	421'	274°	800'
Casady	Seneca Latrine	209°	1,331'	114°	1,954'	137°	1,510'	143°	766'	201°	689'	164°	288'	114°	1,330'	108°	655'	102°	531'	91°	588'	71°	222'
Casady	Shotgun Shelter	237°	2,810'	177°	1,154'	206°	1,620'	233°	1,592'	243°	2,203'	249°	1,757'	210°	1,025'	243°	1,228'	249°	1,289'	252°	1,190'	260°	1,538'
Frankel	Bear Creek Lodge	318°	1,903'	33°	2,117'	15°	1,519'	355°	1,970'	336°	2,120'	347°	2,366'	16°	2,119'	360°	2,379'	357°	2,468'	359°	2,568'	351°	2,682'
Frankel	Blacksmith Shop	70°	1,014'	78°	3,453'	81°	2,650'	66°	2,241'	57°	1,609'	54°	2,085'	71°	2,975'	59°	2,581'	56°	2,539'	55°	2,653'	49°	2,404'
Frankel	Chanotedah Latrine	324°	1,133'	54°	2,169'	46°	1,388'	16°	1,523'	349°	1,456'	2°	1,801'	38°	1,942'	18°	1,971'	14°	2,026'	15°	2,142'	5°	2,156'
Frankel	Chanotedah Shelter	323°	1,072'	56°	2,163'	48°	1,373'	18°	1,480'	350°	1,398'	3°	1,748'	39°	1,918'	19°	1,929'	15°	1,981'	16°	2,098'	6°	2,105'
Frankel	Chief	281°	2,385'	6°	842'	308°	852'	310°	1,604'	297°	2,175'	310°	2,110'	337°	1,197'	323°	1,793'	322°	1,926'	326°	1,968'	319°	2,263'
Frankel	Cope Latrine	304°	1,929'	30°	1,679'	4°	1,149'	343°	1,712'	324°	2,002'	336°	2,160'	9°	1,737'	351°	2,083'	349°	2,187'	351°	2,275'	342°	2,441'
Frankel	Cope Shelter	305°	2,012'	27°	1,707'	1°	1,209'	342°	1,789'	323°	2,086'	336°	2,241'	7°	1,792'	350°	2,154'	348°	2,260'	350°	2,347'	342°	2,519'
Frankel	Dan Beard Trailhead	320°	1,839'	35°	2,177'	19°	1,551'	358°	1,966'	338°	2,083'	349°	2,347'	19°	2,153'	2°	2,384'	360°	2,469'	1°	2,572'	353°	2,671'
Frankel	Duplex	279°	2,402'	4°	737'	301°	824'	306°	1,570'	294°	2,163'	307°	2,074'	333°	1,120'	320°	1,735'	320°	1,869'	323°	1,906'	317°	2,211'
Frankel	Flaming Arrow Cabin	47°	847'	73°	3,187'	75°	2,372'	57°	2,056'	43°	1,499'	42°	1,990'	64°	2,755'	51°	2,439'	48°	2,416'	47°	2,536'	39°	2,338'
Frankel	Flaming Arrow Latrine	51°	857'	74°	3,222'	76°	2,408'	58°	2,076'	45°	1,504'	44°	1,994'	65°	2,781'	52°	2,452'	49°	2,426'	48°	2,545'	41°	2,338'
Frankel	Fort Madison	71°	1,120'	78°	3,563'	81°	2,761'	67°	2,345'	59°	1,706'	55°	2,179'	71°	3,082'	60°	2,680'	58°	2,635'	57°	2,748'	50°	2,492'

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Ridge	Location	Sioux West Latrine		S Entrance Monument		Thomas Lodge		Trading Post		Water Tower		Cayuga Latrine		Climbing Tower		Crow Adirondack		Crow Latrine		Fort Clatsop		Iriquois Latrine	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Frankel	Fort Pella	311°	1,067'	57°	1,941'	49°	1,148'	13°	1,286'	342°	1,285'	357°	1,592'	39°	1,695'	16°	1,732'	12°	1,792'	13°	1,906'	2°	1,939'
Frankel	Frankel Parking Latrine	9°	711'	67°	2,755'	67°	1,936'	44°	1,744'	23°	1,326'	28°	1,798'	56°	2,378'	40°	2,167'	36°	2,171'	36°	2,294'	27°	2,167'
Frankel	Frankel Pool Showers	16°	913'	65°	2,957'	64°	2,139'	44°	1,969'	25°	1,543'	29°	2,020'	55°	2,595'	40°	2,393'	36°	2,396'	36°	2,520'	28°	2,387'
Frankel	Frankel Trading Post	23°	702'	70°	2,885'	70°	2,066'	49°	1,823'	30°	1,347'	33°	1,831'	59°	2,485'	44°	2,232'	40°	2,226'	40°	2,349'	31°	2,195'
Frankel	Hopi Soapy	315°	1,521'	43°	1,963'	28°	1,265'	1°	1,617'	337°	1,727'	350°	1,988'	25°	1,862'	5°	2,042'	2°	2,123'	4°	2,228'	354°	2,315'
Frankel	Hoxie Cabin	314°	1,368'	48°	1,952'	34°	1,216'	4°	1,505'	338°	1,581'	352°	1,857'	29°	1,802'	8°	1,938'	5°	2,012'	7°	2,121'	357°	2,191'
Frankel	Hoxie Latrine	313°	1,233'	52°	1,950'	41°	1,185'	8°	1,410'	340°	1,452'	354°	1,742'	33°	1,757'	12°	1,850'	8°	1,918'	10°	2,029'	359°	2,082'
Frankel	Lake Front Latrine	316°	609'	68°	2,154'	69°	1,335'	34°	1,193'	359°	954'	13°	1,357'	54°	1,783'	31°	1,635'	26°	1,661'	27°	1,783'	14°	1,725'
Frankel	Lake Front Tower	310°	775'	65°	2,025'	63°	1,208'	26°	1,163'	349°	1,035'	5°	1,392'	48°	1,692'	25°	1,612'	20°	1,652'	21°	1,772'	9°	1,754'
Frankel	Longhouse	281°	2,243'	16°	820'	312°	718'	312°	1,471'	298°	2,033'	312°	1,976'	342°	1,104'	326°	1,676'	325°	1,807'	328°	1,854'	321°	2,139'
Frankel	Monroe	280°	2,396'	5°	792'	305°	841'	308°	1,591'	296°	2,172'	309°	2,095'	335°	1,162'	322°	1,767'	321°	1,901'	325°	1,940'	318°	2,241'
Frankel	Newplex	279°	2,516'	355°	746'	298°	927'	304°	1,669'	293°	2,271'	306°	2,171'	328°	1,185'	318°	1,816'	317°	1,951'	321°	1,983'	315°	2,297'
Frankel	Old Quartermaster	21°	1,017'	65°	3,081'	64°	2,263'	44°	2,094'	27°	1,656'	31°	2,136'	55°	2,722'	40°	2,516'	37°	2,518'	37°	2,641'	29°	2,502'
Frankel	Old Ranger	283°	2,337'	10°	888'	313°	834'	312°	1,587'	299°	2,143'	312°	2,092'	340°	1,212'	326°	1,792'	325°	1,923'	328°	1,969'	321°	2,256'
Frankel	Pine Lodge	25°	974'	66°	3,102'	66°	2,283'	47°	2,084'	30°	1,621'	33°	2,105'	56°	2,727'	42°	2,500'	39°	2,497'	39°	2,620'	31°	2,469'
Frankel	Richey Nature Cabin	60°	1,080'	75°	3,480'	77°	2,669'	62°	2,309'	51°	1,706'	49°	2,191'	67°	3,027'	56°	2,669'	53°	2,635'	52°	2,752'	45°	2,522'
Frankel	Sawtelle Shelter	45°	1,012'	71°	3,320'	72°	2,502'	55°	2,212'	42°	1,665'	42°	2,157'	62°	2,901'	50°	2,601'	47°	2,581'	46°	2,701'	39°	2,506'
Frankel	Shop Office	277°	2,667'	342°	705'	290°	1,045'	299°	1,768'	290°	2,394'	302°	2,264'	320°	1,220'	313°	1,877'	312°	2,013'	316°	2,035'	311°	2,366'
Frankel	Tew Cabin	49°	1,084'	72°	3,415'	73°	2,598'	57°	2,295'	45°	1,733'	44°	2,224'	63°	2,991'	51°	2,677'	48°	2,654'	48°	2,773'	40°	2,568'
Frankel	Uncle Bade's Cabin	65°	1,138'	76°	3,562'	79°	2,754'	64°	2,368'	55°	1,747'	52°	2,226'	69°	3,096'	58°	2,717'	55°	2,677'	54°	2,792'	48°	2,549'
Frankel	Wakan Latrine	336°	893'	60°	2,370'	56°	1,562'	28°	1,546'	1°	1,332'	12°	1,738'	46°	2,071'	27°	1,994'	23°	2,028'	24°	2,149'	13°	2,106'
Frankel	Wakan Shelter	328°	918'	60°	2,259'	55°	1,453'	25°	1,470'	357°	1,304'	8°	1,689'	44°	1,971'	24°	1,919'	20°	1,959'	21°	2,079'	11°	2,054'
Frankel	Windmill	70°	1,130'	78°	3,569'	81°	2,765'	67°	2,357'	58°	1,722'	55°	2,196'	71°	3,092'	60°	2,695'	57°	2,651'	56°	2,765'	50°	2,512'
Frankel	Zuni Shelter	306°	1,477'	45°	1,748'	27°	1,043'	356°	1,425'	330°	1,600'	345°	1,821'	24°	1,640'	2°	1,841'	359°	1,926'	1°	2,028'	351°	2,136'
Frankel	Zuni Soapy	303°	1,444'	47°	1,676'	29°	960'	355°	1,342'	328°	1,537'	344°	1,745'	25°	1,556'	2°	1,756'	359°	1,843'	1°	1,944'	350°	2,056'

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Ridge	Location	Kickapoo Latrine		Kiowa Adirondack		Kiowa Latrine		Mohawk Latrine		Mohawk Shelter		Navajo Latrine		Onadaga Adirondack		Onadaga Latrine		Oneida Adirondack		Oneida Latrine		Scott Marshall Shelter	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Blank	Amphitheater Stage	33°	1,053'	14°	1,500'	9°	1,471'	30°	1,225'	32°	1,251'	342°	1,223'	18°	1,535'	20°	1,555'	25°	1,578'	27°	1,613'	34°	1,582'
Blank	Blank Pool Showers	331°	578'	335°	1,197'	329°	1,256'	340°	736'	344°	711'	302°	1,472'	340°	1,160'	343°	1,140'	350°	1,070'	353°	1,066'	2°	931'
Blank	Chaplain's Cabin	58°	629'	19°	962'	11°	926'	47°	764'	50°	805'	325°	750'	24°	1,008'	28°	1,036'	35°	1,082'	38°	1,126'	48°	1,139'
Blank	Chipewa Shelter	16°	825'	360°	1,374'	354°	1,378'	14°	1,012'	18°	1,023'	325°	1,307'	4°	1,384'	7°	1,390'	13°	1,380'	16°	1,403'	24°	1,334'
Blank	Chippewa Latrine	19°	957'	3°	1,487'	358°	1,483'	17°	1,143'	20°	1,156'	331°	1,356'	7°	1,503'	10°	1,513'	15°	1,510'	18°	1,534'	25°	1,471'
Blank	Clayman Chapel	41°	920'	17°	1,325'	11°	1,290'	36°	1,083'	39°	1,114'	340°	1,034'	21°	1,367'	24°	1,391'	30°	1,424'	32°	1,463'	40°	1,449'
Blank	Deere Conf Center	315°	636'	326°	1,231'	322°	1,307'	326°	763'	330°	726'	297°	1,593'	331°	1,179'	334°	1,150'	340°	1,059'	344°	1,044'	351°	884'
Blank	Dining Hall	74°	802'	34°	968'	27°	898'	63°	896'	65°	948'	339°	539'	39°	1,039'	42°	1,080'	48°	1,158'	50°	1,212'	59°	1,265'
Blank	Directors Cabin	327°	819'	332°	1,435'	328°	1,498'	335°	969'	338°	939'	305°	1,708'	336°	1,392'	339°	1,368'	344°	1,287'	347°	1,277'	354°	1,123'
Blank	Flags	61°	940'	30°	1,190'	24°	1,126'	53°	1,063'	55°	1,108'	349°	745'	34°	1,254'	37°	1,291'	43°	1,357'	44°	1,407'	52°	1,438'
Blank	Fox Latrine	59°	1,259'	35°	1,491'	31°	1,416'	53°	1,385'	55°	1,430'	7°	932'	38°	1,562'	40°	1,601'	45°	1,674'	46°	1,725'	53°	1,759'
Blank	Friendship Circle	343°	656'	341°	1,277'	335°	1,324'	349°	830'	353°	814'	308°	1,470'	346°	1,251'	349°	1,237'	355°	1,180'	358°	1,182'	7°	1,060'
Blank	Health Lodge	315°	984'	324°	1,575'	320°	1,654'	323°	1,108'	325°	1,068'	301°	1,925'	328°	1,518'	330°	1,485'	334°	1,385'	337°	1,363'	341°	1,187'
Blank	Leader Showers	24°	532'	359°	1,065'	352°	1,072'	20°	715'	24°	732'	316°	1,071'	5°	1,076'	9°	1,083'	17°	1,080'	20°	1,106'	30°	1,055'
Blank	Mort Miles Lodge	3°	847'	353°	1,437'	347°	1,457'	4°	1,034'	7°	1,034'	321°	1,456'	357°	1,433'	360°	1,431'	6°	1,402'	8°	1,415'	16°	1,321'
Blank	Osage Latrine	60°	1,486'	38°	1,698'	35°	1,617'	54°	1,610'	56°	1,656'	17°	1,083'	41°	1,773'	43°	1,815'	47°	1,893'	48°	1,945'	54°	1,984'
Blank	Ottawa Latrine	356°	1,143'	350°	1,746'	346°	1,771'	358°	1,327'	0°	1,320'	324°	1,762'	354°	1,736'	356°	1,730'	1°	1,689'	3°	1,697'	9°	1,584'
Blank	Pawnee Latrine	77°	1,335'	51°	1,386'	47°	1,284'	70°	1,414'	71°	1,469'	30°	671'	53°	1,477'	55°	1,528'	59°	1,631'	60°	1,691'	66°	1,771'
Blank	Piegane Latrine	69°	1,626'	48°	1,734'	45°	1,636'	64°	1,725'	65°	1,777'	33°	1,023'	50°	1,822'	52°	1,871'	55°	1,967'	56°	2,025'	61°	2,092'
Blank	Quartermaster	17°	649'	358°	1,201'	352°	1,209'	15°	835'	19°	847'	319°	1,189'	3°	1,208'	6°	1,214'	14°	1,204'	16°	1,226'	26°	1,162'
Blank	Sac Latrine	76°	1,117'	45°	1,207'	40°	1,115'	68°	1,201'	69°	1,255'	12°	568'	48°	1,292'	50°	1,340'	55°	1,435'	56°	1,493'	63°	1,563'
Blank	Scoutmasters' Circle	63°	853'	29°	1,101'	23°	1,041'	54°	973'	56°	1,019'	343°	696'	34°	1,164'	36°	1,200'	43°	1,266'	44°	1,315'	53°	1,348'
Blank	Sioux West Latrine	60°	1,538'	40°	1,738'	36°	1,655'	55°	1,660'	57°	1,707'	20°	1,106'	42°	1,816'	44°	1,859'	48°	1,939'	49°	1,992'	54°	2,034'
Blank	S Entrance Monument	290°	1,159'	307°	1,639'	304°	1,745'	299°	1,211'	300°	1,156'	288°	2,161'	309°	1,555'	311°	1,506'	313°	1,373'	316°	1,330'	317°	1,129'
Blank	Thomas Lodge	335°	778'	337°	1,400'	332°	1,455'	341°	941'	345°	918'	307°	1,627'	341°	1,365'	343°	1,346'	349°	1,276'	352°	1,272'	359°	1,131'
Blank	Trading Post	48°	317'	1°	789'	351°	796'	34°	476'	40°	507'	304°	877'	9°	804'	13°	816'	23°	828'	27°	861'	41°	842'
Blank	Water Tower	76°	966'	41°	1,083'	35°	999'	66°	1,053'	68°	1,106'	357°	523'	45°	1,162'	47°	1,208'	53°	1,297'	54°	1,353'	62°	1,417'
Casady	Cayuga Latrine	102°	625'	40°	592'	29°	513'	85°	642'	86°	701'	294°	383'	47°	673'	51°	721'	59°	821'	61°	881'	72°	973'
Casady	Climbing Tower	285°	539'	314°	1,036'	309°	1,133'	303°	590'	306°	537'	286°	1,542'	318°	963'	321°	922'	328°	807'	332°	780'	340°	598'

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Ridge	Location	Kickapoo Latrine		Kiowa Adirondack		Kiowa Latrine		Mohawk Latrine		Mohawk Shelter		Navajo Latrine		Onadaga Adirondack		Onadaga Latrine		Oneida Adirondack		Oneida Latrine		Scott Marshall Shelter	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Casady	Crow Adirondack	162°	218'	337°	405'	322°	470'	102°	98'	100°	158'	275°	897'	353°	381'	2°	378'	25°	378'	33°	416'	60°	442'
Casady	Crow Latrine	149°	342'	349°	290'	327°	338'	118°	228'	114°	285'	269°	789'	11°	297'	22°	315'	46°	369'	52°	423'	75°	507'
Casady	Fort Clatsop	165°	410'	326°	220'	305°	312'	148°	248'	138°	289'	262°	866'	356°	189'	15°	196'	52°	250'	59°	308'	86°	421'
Casady	Iriquois Latrine	135°	679'	68°	275'	51°	158'	120°	587'	118°	643'	248°	518'	74°	382'	76°	442'	83°	580'	83°	647'	94°	800'
Casady	Kickapoo Latrine			339°	622'	328°	679'	8°	188'	26°	200'	286°	1,003'	349°	597'	355°	587'	10°	557'	16°	577'	36°	530'
Casady	Kiowa Adirondack	159°	622'			269°	132'	147°	468'	142°	508'	248°	793'	87°	111'	88°	174'	95°	322'	94°	388'	106°	564'
Casady	Kiowa Latrine	148°	679'	89°	132'			135°	549'	132°	597'	244°	671'	88°	243'	88°	306'	93°	454'	92°	519'	103°	691'
Casady	Mohawk Latrine	188°	188'	327°	468'	315°	549'			96°	60'	276°	995'	340°	424'	349°	407'	10°	369'	20°	392'	50°	375'
Casady	Mohawk Shelter	206°	200'	322°	508'	312°	597'	276°	60'			276°	1,055'	333°	453'	341°	429'	1°	369'	11°	382'	43°	335'
Casady	Navajo Latrine	106°	1,003'	68°	793'	64°	671'	96°	995'	96°	1,055'			70°	899'	72°	958'	76°	1,089'	76°	1,155'	84°	1,286'
Casady	Onadaga Adirondack	169°	597'	267°	111'	268°	243'	160°	424'	153°	453'	250°	899'			90°	63'	100°	213'	96°	278'	110°	460'
Casady	Onadaga Latrine	175°	587'	268°	174'	268°	306'	169°	407'	161°	429'	252°	958'	270°	63'			104°	151'	98°	215'	113°	402'
Casady	Oneida Adirondack	190°	557'	275°	322'	273°	454'	190°	369'	181°	369'	256°	1,089'	280°	213'	284°	151'			85°	66'	119°	254'
Casady	Oneida Latrine	196°	577'	274°	388'	272°	519'	200°	392'	191°	382'	256°	1,155'	276°	278'	278°	215'	265°	66'			130°	202'
Casady	Scott Marshall Shelter	216°	530'	286°	564'	283°	691'	230°	375'	223°	335'	264°	1,286'	290°	460'	293°	402'	299°	254'	310°	202'		
Casady	Seneca Latrine	120°	803'	69°	496'	63°	374'	107°	753'	106°	812'	246°	297'	73°	603'	74°	664'	80°	799'	80°	865'	89°	1,008'
Casady	Shotgun Shelter	234°	1,277'	262°	1,269'	263°	1,401'	240°	1,153'	239°	1,104'	257°	2,048'	262°	1,159'	261°	1,096'	258°	959'	257°	893'	245°	787'
Frankel	Bear Creek Lodge	2°	2,173'	357°	2,756'	354°	2,764'	2°	2,360'	4°	2,357'	340°	2,614'	359°	2,758'	0°	2,757'	3°	2,725'	5°	2,736'	8°	2,625'
Frankel	Blacksmith Shop	64°	2,544'	51°	2,665'	49°	2,562'	61°	2,654'	62°	2,704'	44°	1,922'	52°	2,755'	53°	2,805'	55°	2,903'	56°	2,961'	59°	3,023'
Frankel	Chanotedah Latrine	22°	1,799'	11°	2,292'	8°	2,268'	20°	1,982'	22°	1,998'	351°	1,975'	14°	2,322'	15°	2,338'	19°	2,346'	20°	2,374'	25°	2,315'
Frankel	Chanotedah Shelter	23°	1,760'	12°	2,245'	9°	2,219'	22°	1,943'	24°	1,960'	352°	1,918'	15°	2,277'	16°	2,294'	20°	2,305'	21°	2,334'	26°	2,279'
Frankel	Chief	321°	1,587'	326°	2,188'	323°	2,263'	326°	1,720'	327°	1,682'	308°	2,479'	328°	2,133'	330°	2,101'	333°	1,999'	335°	1,975'	338°	1,794'
Frankel	Cope Latrine	352°	1,868'	349°	2,477'	346°	2,503'	354°	2,049'	355°	2,038'	330°	2,455'	351°	2,464'	353°	2,455'	356°	2,405'	358°	2,408'	2°	2,278'
Frankel	Cope Shelter	351°	1,939'	348°	2,550'	345°	2,578'	352°	2,119'	354°	2,106'	330°	2,538'	350°	2,535'	352°	2,525'	355°	2,472'	357°	2,474'	0°	2,340'
Frankel	Dan Beard Trailhead	4°	2,181'	359°	2,755'	356°	2,758'	5°	2,369'	6°	2,368'	342°	2,583'	1°	2,760'	2°	2,762'	5°	2,736'	7°	2,749'	10°	2,645'
Frankel	Duplex	318°	1,533'	324°	2,126'	321°	2,205'	323°	1,658'	324°	1,618'	305°	2,447'	326°	2,067'	328°	2,032'	331°	1,926'	333°	1,900'	335°	1,715'
Frankel	Flaming Arrow Cabin	56°	2,370'	42°	2,581'	40°	2,492'	52°	2,501'	53°	2,545'	32°	1,900'	44°	2,661'	45°	2,705'	47°	2,786'	48°	2,838'	52°	2,876'
Frankel	Flaming Arrow Latrine	57°	2,388'	43°	2,585'	41°	2,494'	54°	2,516'	55°	2,561'	33°	1,893'	45°	2,667'	46°	2,711'	49°	2,795'	49°	2,849'	53°	2,890'
Frankel	Fort Madison	65°	2,647'	52°	2,755'	50°	2,650'	62°	2,754'	62°	2,804'	46°	2,005'	53°	2,847'	54°	2,898'	56°	2,998'	57°	3,056'	60°	3,122'

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Ridge	Location	Kickapoo Latrine		Kiowa Adirondack		Kiowa Latrine		Mohawk Latrine		Mohawk Shelter		Navajo Latrine		Onadaga Adirondack		Onadaga Latrine		Oneida Adirondack		Oneida Latrine		Scott Marshall Shelter	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Frankel	Fort Pella	20°	1,556'	9°	2,063'	5°	2,044'	19°	1,740'	21°	1,755'	346°	1,795'	12°	2,088'	13°	2,102'	17°	2,106'	19°	2,132'	24°	2,069'
Frankel	Frankel Parking Latrine	45°	2,060'	31°	2,379'	28°	2,311'	42°	2,214'	43°	2,250'	16°	1,810'	33°	2,443'	34°	2,478'	38°	2,535'	39°	2,581'	43°	2,585'
Frankel	Frankel Pool Showers	44°	2,285'	32°	2,603'	29°	2,533'	42°	2,439'	43°	2,475'	18°	2,019'	34°	2,668'	35°	2,703'	38°	2,761'	39°	2,806'	43°	2,811'
Frankel	Frankel Trading Post	49°	2,139'	35°	2,419'	32°	2,344'	46°	2,285'	47°	2,324'	21°	1,807'	37°	2,489'	38°	2,528'	41°	2,594'	42°	2,642'	47°	2,659'
Frankel	Hopi Soapy	8°	1,845'	1°	2,406'	357°	2,405'	8°	2,033'	10°	2,036'	341°	2,225'	3°	2,416'	5°	2,420'	8°	2,401'	10°	2,418'	14°	2,324'
Frankel	Hoxie Cabin	12°	1,746'	3°	2,292'	360°	2,286'	11°	1,934'	13°	1,941'	343°	2,083'	6°	2,307'	7°	2,315'	11°	2,303'	13°	2,322'	17°	2,238'
Frankel	Hoxie Latrine	15°	1,664'	6°	2,194'	2°	2,183'	15°	1,851'	16°	1,861'	345°	1,958'	8°	2,214'	10°	2,224'	14°	2,219'	16°	2,242'	20°	2,167'
Frankel	Lake Front Latrine	37°	1,502'	21°	1,900'	17°	1,854'	34°	1,669'	36°	1,699'	358°	1,477'	24°	1,949'	26°	1,975'	30°	2,012'	31°	2,051'	37°	2,032'
Frankel	Lake Front Tower	31°	1,461'	16°	1,907'	12°	1,873'	28°	1,636'	30°	1,660'	352°	1,555'	19°	1,946'	21°	1,967'	25°	1,991'	26°	2,025'	32°	1,988'
Frankel	Longhouse	324°	1,467'	328°	2,075'	325°	2,145'	329°	1,606'	330°	1,571'	309°	2,343'	331°	2,024'	333°	1,994'	336°	1,898'	338°	1,877'	341°	1,702'
Frankel	Monroe	319°	1,564'	325°	2,161'	322°	2,237'	324°	1,693'	326°	1,653'	306°	2,467'	327°	2,104'	329°	2,070'	332°	1,966'	334°	1,941'	336°	1,759'
Frankel	Newplex	315°	1,619'	321°	2,203'	319°	2,285'	320°	1,737'	321°	1,694'	304°	2,546'	324°	2,140'	325°	2,103'	328°	1,992'	330°	1,963'	332°	1,774'
Frankel	Old Quartermaster	45°	2,410'	33°	2,720'	30°	2,649'	42°	2,563'	43°	2,600'	20°	2,123'	35°	2,787'	36°	2,823'	38°	2,883'	39°	2,929'	43°	2,935'
Frankel	Old Ranger	323°	1,583'	328°	2,190'	325°	2,261'	328°	1,721'	330°	1,685'	309°	2,458'	330°	2,138'	332°	2,107'	335°	2,009'	337°	1,988'	340°	1,810'
Frankel	Pine Lodge	47°	2,400'	34°	2,693'	32°	2,618'	44°	2,550'	45°	2,588'	22°	2,079'	36°	2,762'	37°	2,800'	40°	2,864'	41°	2,911'	45°	2,923'
Frankel	Richey Nature Cabin	60°	2,618'	47°	2,777'	45°	2,679'	57°	2,738'	58°	2,785'	40°	2,054'	49°	2,864'	50°	2,911'	52°	3,002'	53°	3,058'	56°	3,110'
Frankel	Sawtelle Shelter	54°	2,527'	42°	2,748'	39°	2,660'	51°	2,661'	52°	2,705'	32°	2,069'	43°	2,827'	44°	2,871'	47°	2,950'	47°	3,002'	51°	3,036'
Frankel	Shop Office	309°	1,689'	317°	2,252'	314°	2,342'	314°	1,793'	315°	1,746'	301°	2,643'	319°	2,182'	320°	2,141'	323°	2,022'	325°	1,988'	326°	1,793'
Frankel	Tew Cabin	56°	2,609'	43°	2,814'	41°	2,724'	53°	2,740'	54°	2,784'	34°	2,122'	45°	2,896'	45°	2,940'	48°	3,023'	49°	3,076'	52°	3,114'
Frankel	Uncle Bade's Cabin	63°	2,674'	50°	2,808'	48°	2,706'	59°	2,788'	60°	2,837'	43°	2,070'	51°	2,897'	52°	2,947'	54°	3,042'	55°	3,100'	58°	3,159'
Frankel	Wakan Latrine	32°	1,847'	19°	2,275'	16°	2,233'	30°	2,021'	31°	2,046'	0°	1,854'	22°	2,319'	23°	2,343'	27°	2,372'	28°	2,408'	33°	2,375'
Frankel	Wakan Shelter	29°	1,765'	17°	2,213'	13°	2,176'	27°	1,941'	29°	1,964'	357°	1,827'	19°	2,252'	21°	2,274'	24°	2,297'	26°	2,331'	31°	2,291'
Frankel	Windmill	64°	2,660'	52°	2,774'	50°	2,670'	61°	2,768'	62°	2,818'	45°	2,026'	53°	2,865'	54°	2,915'	56°	3,015'	56°	3,073'	60°	3,137'
Frankel	Zuni Shelter	5°	1,639'	358°	2,212'	354°	2,218'	5°	1,826'	7°	1,827'	337°	2,081'	1°	2,217'	2°	2,219'	6°	2,194'	8°	2,208'	13°	2,109'
Frankel	Zuni Soapy	5°	1,553'	357°	2,129'	354°	2,137'	5°	1,741'	7°	1,741'	335°	2,011'	0°	2,133'	2°	2,134'	6°	2,109'	8°	2,123'	13°	2,023'

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Ridge	Location	Seneca Latrine		Shotgun Shelter		Bear Creek Lodge		Blacksmith Shop		Chanotedah Latrine		Chanotedah Shelter		Cope Latrine		Cope Shelter		Dan Beard Trailhead		Duplex			
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance		
Blank	Amphitheater Stage	355°	1,289'	45°	2,293'	158°	1,392'	262°	1,726'	186°	797'	189°	747'	103°	1,617'	139°	1,279'	139°	1,364'	162°	1,361'	99°	1,634'
Blank	Blank Pool Showers	313°	1,333'	31°	1,465'	192°	1,703'	257°	2,641'	219°	1,504'	221°	1,482'	135°	1,023'	181°	1,347'	179°	1,410'	195°	1,730'	130°	980'
Blank	Chaplain's Cabin	348°	755'	55°	1,905'	166°	1,898'	246°	1,919'	186°	1,344'	187°	1,294'	120°	1,778'	153°	1,709'	152°	1,792'	169°	1,879'	117°	1,760'
Blank	Chipewa Shelter	339°	1,289'	39°	1,993'	173°	1,386'	261°	2,091'	207°	982'	210°	949'	110°	1,297'	156°	1,158'	155°	1,239'	178°	1,381'	105°	1,301'
Blank	Chippewa Latrine	344°	1,366'	39°	2,134'	169°	1,290'	264°	1,990'	205°	844'	209°	809'	104°	1,348'	149°	1,099'	148°	1,182'	174°	1,277'	100°	1,363'
Blank	Clayman Chapel	356°	1,098'	49°	2,185'	160°	1,579'	256°	1,732'	183°	983'	185°	931'	109°	1,697'	143°	1,445'	143°	1,530'	163°	1,550'	105°	1,702'
Blank	Deere Conf Center	307°	1,428'	26°	1,334'	197°	1,801'	256°	2,821'	222°	1,658'	224°	1,640'	145°	957'	188°	1,418'	186°	1,474'	200°	1,835'	140°	898'
Blank	Dining Hall	7°	632'	61°	2,049'	160°	2,075'	240°	1,759'	176°	1,453'	177°	1,397'	120°	2,038'	148°	1,924'	147°	2,007'	163°	2,045'	117°	2,022'
Blank	Directors Cabin	314°	1,576'	22°	1,561'	199°	1,565'	261°	2,762'	228°	1,479'	231°	1,467'	134°	779'	189°	1,176'	186°	1,231'	202°	1,604'	127°	740'
Blank	Flags	9°	865'	57°	2,212'	156°	1,883'	246°	1,606'	173°	1,231'	174°	1,174'	113°	1,985'	142°	1,767'	142°	1,852'	159°	1,847'	110°	1,981'
Blank	Fox Latrine	20°	1,117'	56°	2,533'	146°	1,839'	249°	1,294'	158°	1,110'	158°	1,049'	106°	2,164'	132°	1,801'	132°	1,886'	149°	1,787'	103°	2,174'
Blank	Friendship Circle	319°	1,360'	31°	1,617'	189°	1,566'	259°	2,528'	219°	1,351'	222°	1,330'	127°	1,009'	177°	1,225'	175°	1,292'	193°	1,589'	121°	982'
Blank	Health Lodge	309°	1,772'	13°	1,493'	207°	1,656'	262°	3,010'	234°	1,671'	237°	1,665'	150°	615'	201°	1,234'	198°	1,274'	210°	1,707'	142°	551'
Blank	Leader Showers	332°	1,011'	45°	1,759'	175°	1,693'	253°	2,165'	201°	1,268'	203°	1,229'	122°	1,426'	161°	1,443'	160°	1,521'	178°	1,690'	117°	1,407'
Blank	Mort Miles Lodge	333°	1,410'	34°	1,927'	181°	1,326'	263°	2,262'	217°	1,034'	220°	1,011'	110°	1,111'	164°	1,047'	162°	1,124'	185°	1,335'	105°	1,114'
Blank	Osage Latrine	27°	1,299'	57°	2,759'	139°	1,870'	250°	1,069'	146°	1,105'	146°	1,043'	102°	2,330'	126°	1,886'	126°	1,969'	142°	1,808'	99°	2,347'
Blank	Ottawa Latrine	333°	1,727'	27°	2,121'	188°	1,042'	271°	2,367'	234°	914'	238°	909'	96°	926'	166°	732'	163°	808'	193°	1,063'	89°	957'
Blank	Pawnee Latrine	41°	929'	66°	2,558'	147°	2,247'	231°	1,279'	155°	1,514'	155°	1,452'	112°	2,484'	135°	2,198'	135°	2,283'	149°	2,195'	110°	2,481'
Blank	Piegan Latrine	40°	1,284'	62°	2,877'	138°	2,162'	235°	935'	142°	1,389'	142°	1,328'	105°	2,604'	126°	2,184'	126°	2,267'	140°	2,097'	102°	2,616'
Blank	Quartermaster	334°	1,143'	41°	1,838'	175°	1,556'	257°	2,156'	204°	1,153'	207°	1,118'	117°	1,336'	160°	1,307'	159°	1,386'	179°	1,554'	113°	1,326'
Blank	Sac Latrine	30°	782'	64°	2,349'	152°	2,156'	235°	1,468'	163°	1,459'	164°	1,399'	115°	2,293'	140°	2,067'	140°	2,152'	154°	2,112'	112°	2,285'
Blank	Scoutmasters' Circle	5°	792'	58°	2,123'	159°	1,920'	245°	1,691'	176°	1,291'	177°	1,235'	116°	1,955'	145°	1,783'	145°	1,868'	162°	1,888'	113°	1,946'
Blank	Sioux West Latrine	29°	1,331'	57°	2,810'	138°	1,903'	250°	1,014'	144°	1,133'	143°	1,072'	101°	2,385'	124°	1,929'	125°	2,012'	140°	1,839'	99°	2,402'
Blank	S Entrance Monument	294°	1,954'	357°	1,154'	213°	2,117'	258°	3,453'	234°	2,169'	236°	2,163'	186°	842'	210°	1,679'	207°	1,707'	215°	2,177'	184°	737'
Blank	Thomas Lodge	317°	1,510'	26°	1,620'	195°	1,519'	261°	2,650'	226°	1,388'	228°	1,373'	128°	852'	184°	1,149'	181°	1,209'	199°	1,551'	121°	824'
Blank	Trading Post	323°	766'	53°	1,592'	175°	1,970'	246°	2,241'	196°	1,523'	198°	1,480'	130°	1,604'	163°	1,712'	162°	1,789'	178°	1,966'	126°	1,570'
Blank	Water Tower	21°	689'	63°	2,203'	156°	2,120'	237°	1,609'	169°	1,456'	170°	1,398'	117°	2,175'	144°	2,002'	143°	2,086'	158°	2,083'	114°	2,163'
Casady	Cayuga Latrine	344°	288'	69°	1,757'	167°	2,366'	234°	2,085'	182°	1,801'	183°	1,748'	130°	2,110'	156°	2,160'	156°	2,241'	169°	2,347'	127°	2,074'
Casady	Climbing Tower	294°	1,330'	30°	1,025'	196°	2,119'	251°	2,975'	218°	1,942'	219°	1,918'	157°	1,197'	189°	1,737'	187°	1,792'	199°	2,153'	153°	1,120'

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Ridge	Location	Seneca Latrine		Shotgun Shelter		Bear Creek Lodge		Blacksmith Shop		Chanotedah Latrine		Chanotedah Shelter		Cope Latrine		Cope Shelter		Dan Beard Trailhead		Duplex			
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Casady	Crow Adirondack	288°	655'	63°	1,228'	180°	2,379'	239°	2,581'	198°	1,971'	199°	1,929'	143°	1,793'	171°	2,083'	170°	2,154'	182°	2,384'	140°	1,735'
Casady	Crow Latrine	282°	531'	69°	1,289'	177°	2,468'	236°	2,539'	194°	2,026'	195°	1,981'	142°	1,926'	169°	2,187'	168°	2,260'	180°	2,469'	140°	1,869'
Casady	Fort Clatsop	271°	588'	72°	1,190'	179°	2,568'	235°	2,653'	195°	2,142'	196°	2,098'	146°	1,968'	171°	2,275'	170°	2,347'	181°	2,572'	143°	1,906'
Casady	Iriquois Latrine	251°	222'	80°	1,538'	171°	2,682'	229°	2,404'	185°	2,156'	186°	2,105'	139°	2,263'	162°	2,441'	162°	2,519'	173°	2,671'	137°	2,211'
Casady	Kickapoo Latrine	300°	803'	54°	1,277'	182°	2,173'	244°	2,544'	202°	1,799'	203°	1,760'	141°	1,587'	172°	1,868'	171°	1,939'	184°	2,181'	138°	1,533'
Casady	Kiowa Adirondack	249°	496'	82°	1,269'	177°	2,756'	231°	2,665'	191°	2,292'	192°	2,245'	146°	2,188'	169°	2,477'	168°	2,550'	179°	2,755'	144°	2,126'
Casady	Kiowa Latrine	243°	374'	83°	1,401'	174°	2,764'	229°	2,562'	188°	2,268'	189°	2,219'	143°	2,263'	166°	2,503'	165°	2,578'	176°	2,758'	141°	2,205'
Casady	Mohawk Latrine	287°	753'	60°	1,153'	182°	2,360'	241°	2,654'	200°	1,982'	202°	1,943'	146°	1,720'	174°	2,049'	172°	2,119'	185°	2,369'	143°	1,658'
Casady	Mohawk Shelter	286°	812'	59°	1,104'	184°	2,357'	242°	2,704'	202°	1,998'	204°	1,960'	147°	1,682'	175°	2,038'	174°	2,106'	186°	2,368'	144°	1,618'
Casady	Navajo Latrine	66°	297'	77°	2,048'	160°	2,614'	224°	1,922'	171°	1,975'	172°	1,918'	128°	2,479'	150°	2,455'	150°	2,538'	162°	2,583'	125°	2,447'
Casady	Onadaga Adirondack	253°	603'	82°	1,159'	179°	2,758'	232°	2,755'	194°	2,322'	195°	2,277'	148°	2,133'	171°	2,464'	170°	2,535'	181°	2,760'	146°	2,067'
Casady	Onadaga Latrine	254°	664'	81°	1,096'	180°	2,757'	233°	2,805'	195°	2,338'	196°	2,294'	150°	2,101'	173°	2,455'	172°	2,525'	182°	2,762'	148°	2,032'
Casady	Oneida Adirondack	260°	799'	78°	959'	183°	2,725'	235°	2,903'	199°	2,346'	200°	2,305'	153°	1,999'	176°	2,405'	175°	2,472'	185°	2,736'	151°	1,926'
Casady	Oneida Latrine	260°	865'	77°	893'	185°	2,736'	236°	2,961'	200°	2,374'	201°	2,334'	155°	1,975'	178°	2,408'	177°	2,474'	187°	2,749'	153°	1,900'
Casady	Scott Marshall Shelter	269°	1,008'	65°	787'	188°	2,625'	239°	3,023'	205°	2,315'	206°	2,279'	158°	1,794'	182°	2,278'	180°	2,340'	190°	2,645'	155°	1,715'
Casady	Seneca Latrine			78°	1,757'	166°	2,653'	226°	2,201'	179°	2,076'	180°	2,022'	134°	2,355'	157°	2,446'	157°	2,526'	168°	2,633'	132°	2,312'
Casady	Shotgun Shelter	258°	1,757'			200°	3,125'	241°	3,807'	215°	2,960'	216°	2,934'	181°	1,989'	197°	2,720'	195°	2,765'	202°	3,165'	180°	1,887'
Frankel	Bear Creek Lodge	346°	2,653'	20°	3,125'			296°	2,466'	310°	784'	311°	842'	49°	1,418'	44°	450'	55°	453'	268°	102'	47°	1,513'
Frankel	Blacksmith Shop	46°	2,201'	61°	3,807'	116°	2,466'			109°	1,717'	108°	1,672'	92°	3,290'	106°	2,647'	107°	2,720'	117°	2,376'	90°	3,324'
Frankel	Chanotedah Latrine	359°	2,076'	35°	2,960'	130°	784'	289°	1,717'			331°	62'	75°	1,722'	101°	935'	104°	1,005'	135°	711'	72°	1,785'
Frankel	Chanotedah Shelter	0°	2,022'	36°	2,934'	131°	842'	288°	1,672'	151°	62'			77°	1,738'	104°	976'	106°	1,048'	136°	770'	74°	1,798'
Frankel	Chief	314°	2,355'	1°	1,989'	229°	1,418'	272°	3,290'	255°	1,722'	257°	1,738'			230°	970'	225°	969'	231°	1,497'	19°	108'
Frankel	Cope Latrine	337°	2,446'	17°	2,720'	224°	450'	286°	2,647'	281°	935'	284°	976'	50°	970'			138°	85'	232°	528'	47°	1,064'
Frankel	Cope Shelter	337°	2,526'	15°	2,765'	235°	453'	287°	2,720'	284°	1,005'	286°	1,048'	45°	969'	318°	85'			241°	541'	43°	1,068'
Frankel	Dan Beard Trailhead	348°	2,633'	22°	3,165'	88°	102'	297°	2,376'	315°	711'	316°	770'	51°	1,497'	52°	528'	61°	541'			49°	1,591'
Frankel	Duplex	312°	2,312'	360°	1,887'	227°	1,513'	270°	3,324'	252°	1,785'	254°	1,798'	199°	108'	227°	1,064'	223°	1,068'	229°	1,591'		
Frankel	Flaming Arrow Cabin	36°	2,152'	55°	3,646'	114°	2,069'	304°	404'	104°	1,332'	102°	1,291'	88°	2,957'	103°	2,267'	104°	2,337'	115°	1,977'	86°	2,998'
Frankel	Flaming Arrow Latrine	38°	2,150'	56°	3,664'	114°	2,128'	304°	342'	106°	1,389'	104°	1,346'	89°	3,004'	104°	2,323'	105°	2,393'	115°	2,037'	87°	3,044'
Frankel	Fort Madison	48°	2,286'	61°	3,907'	114°	2,565'	87°	111'	108°	1,821'	106°	1,776'	92°	3,401'	105°	2,752'	106°	2,824'	115°	2,473'	90°	3,435'

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Ridge	Location	Seneca Latrine		Shotgun Shelter		Bear Creek Lodge		Blacksmith Shop		Chanotedah Latrine		Chanotedah Shelter		Cope Latrine		Cope Shelter		Dan Beard Trailhead		Duplex			
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance		
Frankel	Fort Pella	355°	1,873'	35°	2,713'	146°	853'	281°	1,790'	212°	248'	226°	225'	82°	1,550'	116°	877'	118°	957'	153°	804'	78°	1,603'
Frankel	Frankel Parking Latrine	22°	2,014'	48°	3,327'	117°	1,560'	293°	908'	105°	814'	102°	772'	85°	2,462'	103°	1,748'	104°	1,818'	119°	1,472'	82°	2,509'
Frankel	Frankel Pool Showers	24°	2,231'	48°	3,551'	109°	1,624'	307°	869'	92°	931'	89°	900'	81°	2,626'	97°	1,861'	98°	1,925'	111°	1,529'	79°	2,679'
Frankel	Frankel Trading Post	27°	2,030'	51°	3,413'	116°	1,731'	294°	736'	106°	985'	103°	942'	86°	2,619'	103°	1,919'	105°	1,989'	118°	1,641'	84°	2,663'
Frankel	Hopi Soapy	349°	2,275'	26°	2,885'	151°	395'	289°	2,157'	291°	440'	295°	488'	65°	1,388'	93°	508'	99°	571'	165°	359'	62°	1,466'
Frankel	Hoxie Cabin	351°	2,142'	29°	2,827'	148°	546'	287°	2,026'	277°	314'	285°	354'	71°	1,435'	103°	622'	107°	694'	158°	502'	67°	1,505'
Frankel	Hoxie Latrine	353°	2,026'	32°	2,781'	146°	681'	285°	1,913'	254°	234'	267°	255'	76°	1,487'	110°	735'	112°	811'	154°	633'	72°	1,550'
Frankel	Lake Front Latrine	8°	1,614'	45°	2,751'	139°	1,295'	273°	1,380'	153°	537'	153°	475'	91°	1,911'	119°	1,337'	121°	1,417'	143°	1,233'	88°	1,948'
Frankel	Lake Front Tower	2°	1,663'	41°	2,682'	143°	1,141'	275°	1,552'	169°	421'	172°	363'	89°	1,743'	121°	1,160'	122°	1,241'	148°	1,085'	86°	1,783'
Frankel	Longhouse	316°	2,225'	5°	1,948'	223°	1,354'	271°	3,154'	252°	1,605'	255°	1,619'	110°	143'	223°	904'	217°	916'	226°	1,428'	72°	179'
Frankel	Monroe	313°	2,337'	0°	1,941'	228°	1,465'	271°	3,310'	254°	1,755'	256°	1,770'	204°	52'	229°	1,017'	224°	1,018'	230°	1,544'	16°	56'
Frankel	Newplex	310°	2,404'	356°	1,900'	230°	1,592'	270°	3,438'	254°	1,891'	256°	1,906'	238°	176'	232°	1,145'	227°	1,142'	232°	1,673'	275°	114'
Frankel	Old Quartermaster	25°	2,342'	48°	3,677'	106°	1,699'	315°	842'	88°	1,033'	85°	1,006'	80°	2,739'	94°	1,955'	96°	2,017'	107°	1,602'	78°	2,794'
Frankel	Old Ranger	316°	2,342'	2°	2,030'	228°	1,349'	273°	3,235'	256°	1,657'	258°	1,674'	56°	69'	230°	901'	225°	902'	231°	1,429'	33°	169'
Frankel	Pine Lodge	27°	2,304'	49°	3,671'	107°	1,771'	315°	755'	92°	1,086'	89°	1,056'	82°	2,781'	96°	2,015'	98°	2,079'	109°	1,674'	80°	2,833'
Frankel	Richey Nature Cabin	43°	2,325'	58°	3,889'	112°	2,373'	355°	193'	103°	1,647'	101°	1,606'	89°	3,271'	102°	2,582'	103°	2,652'	113°	2,280'	87°	3,310'
Frankel	Sawtelle Shelter	36°	2,321'	54°	3,804'	109°	2,103'	327°	440'	98°	1,396'	96°	1,360'	85°	3,058'	99°	2,331'	100°	2,398'	110°	2,008'	84°	3,104'
Frankel	Shop Office	306°	2,485'	351°	1,843'	231°	1,764'	269°	3,600'	253°	2,068'	255°	2,082'	242°	354'	233°	1,319'	230°	1,313'	233°	1,847'	257°	284'
Frankel	Tew Cabin	38°	2,380'	55°	3,885'	108°	2,201'	339°	391'	97°	1,498'	96°	1,462'	86°	3,159'	99°	2,432'	100°	2,499'	109°	2,105'	84°	3,205'
Frankel	Uncle Bade's Cabin	46°	2,346'	60°	3,941'	112°	2,494'	34°	149'	104°	1,762'	103°	1,720'	90°	3,372'	103°	2,697'	104°	2,767'	113°	2,401'	88°	3,410'
Frankel	Wakan Latrine	8°	1,996'	41°	3,068'	124°	1,087'	289°	1,399'	108°	319'	99°	277'	80°	1,997'	103°	1,252'	105°	1,323'	127°	1,005'	78°	2,052'
Frankel	Wakan Shelter	5°	1,954'	39°	2,973'	128°	1,014'	287°	1,495'	124°	231'	115°	179'	81°	1,883'	106°	1,152'	108°	1,225'	132°	939'	78°	1,937'
Frankel	Windmill	48°	2,306'	61°	3,921'	114°	2,552'	72°	117'	107°	1,812'	105°	1,768'	91°	3,400'	105°	2,744'	106°	2,816'	115°	2,461'	90°	3,435'
Frankel	Zuni Shelter	345°	2,109'	26°	2,662'	171°	546'	284°	2,205'	266°	520'	272°	549'	71°	1,213'	119°	455'	122°	536'	182°	543'	67°	1,284'
Frankel	Zuni Soapy	344°	2,033'	27°	2,579'	174°	627'	281°	2,204'	257°	551'	263°	571'	74°	1,171'	128°	487'	130°	571'	183°	628'	70°	1,236'

To find your directions go across the top row to the correct starting point column. Then follow it down to the row that has the right ending point. Read your degrees and distance.

Ridge	Location	Flaming Arrow Cabin		Flaming Arrow Latrine		Fort Madison		Fort Pella		Frankel Parking Latrine		Frankel Pool Showers		Frankel Trading Post		Hopi Soapy		Hoxie Cabin		Hoxie Latrine		Lake Front Latrine	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Blank	Amphitheater Stage	252°	1,451'	254°	1,486'	263°	1,836'	176°	584'	236°	1,049'	233°	1,267'	243°	1,161'	161°	1,002'	165°	861'	169°	739'	227°	458'
Blank	Blank Pool Showers	250°	2,388'	251°	2,420'	257°	2,751'	220°	1,258'	241°	1,981'	239°	2,192'	245°	2,099'	202°	1,428'	208°	1,363'	213°	1,317'	240°	1,379'
Blank	Chaplain's Cabin	235°	1,741'	237°	1,759'	247°	2,024'	180°	1,128'	219°	1,454'	219°	1,680'	225°	1,521'	169°	1,520'	173°	1,389'	176°	1,275'	204°	940'
Blank	Chipewa Shelter	253°	1,817'	254°	1,852'	262°	2,202'	205°	735'	242°	1,399'	239°	1,610'	246°	1,519'	182°	1,033'	188°	924'	195°	839'	240°	797'
Blank	Chippewa Latrine	255°	1,703'	257°	1,740'	264°	2,102'	202°	599'	244°	1,271'	240°	1,479'	249°	1,397'	177°	923'	183°	805'	191°	711'	244°	668'
Blank	Clayman Chapel	244°	1,495'	246°	1,522'	257°	1,841'	174°	775'	228°	1,142'	226°	1,366'	235°	1,233'	163°	1,191'	166°	1,051'	170°	930'	211°	588'
Blank	Deere Conf Center	250°	2,568'	251°	2,601'	257°	2,930'	224°	1,415'	242°	2,158'	240°	2,368'	245°	2,278'	207°	1,551'	213°	1,499'	218°	1,463'	241°	1,556'
Blank	Dining Hall	227°	1,628'	229°	1,637'	241°	1,858'	169°	1,261'	209°	1,414'	210°	1,636'	215°	1,452'	162°	1,686'	164°	1,545'	167°	1,422'	188°	982'
Blank	Directors Cabin	255°	2,483'	256°	2,520'	261°	2,873'	232°	1,243'	248°	2,044'	245°	2,246'	251°	2,176'	211°	1,333'	218°	1,293'	224°	1,271'	250°	1,444'
Blank	Flags	232°	1,438'	234°	1,453'	247°	1,710'	164°	1,052'	212°	1,190'	213°	1,414'	220°	1,238'	158°	1,490'	160°	1,345'	162°	1,217'	187°	749'
Blank	Fox Latrine	231°	1,116'	234°	1,131'	250°	1,400'	146°	986'	204°	898'	207°	1,118'	215°	929'	145°	1,446'	146°	1,293'	146°	1,157'	163°	578'
Blank	Friendship Circle	252°	2,263'	253°	2,297'	259°	2,638'	221°	1,106'	243°	1,843'	241°	2,053'	247°	1,966'	200°	1,281'	207°	1,213'	213°	1,165'	243°	1,241'
Blank	Health Lodge	256°	2,725'	257°	2,763'	262°	3,121'	238°	1,444'	250°	2,276'	248°	2,473'	253°	2,412'	220°	1,473'	226°	1,455'	231°	1,451'	253°	1,680'
Blank	Leader Showers	244°	1,937'	246°	1,964'	254°	2,273'	198°	1,026'	232°	1,574'	230°	1,796'	237°	1,672'	182°	1,342'	186°	1,232'	191°	1,141'	225°	993'
Blank	Mort Miles Lodge	256°	1,976'	257°	2,014'	263°	2,373'	219°	788'	246°	1,538'	243°	1,743'	250°	1,668'	192°	1,004'	200°	919'	208°	857'	248°	937'
Blank	Osage Latrine	229°	893'	233°	906'	252°	1,176'	133°	1,029'	194°	728'	200°	937'	207°	731'	136°	1,485'	136°	1,332'	135°	1,196'	140°	575'
Blank	Ottawa Latrine	264°	2,044'	266°	2,088'	271°	2,478'	242°	691'	258°	1,563'	254°	1,746'	261°	1,712'	206°	763'	217°	715'	228°	697'	267°	991'
Blank	Pawnee Latrine	212°	1,229'	215°	1,223'	233°	1,370'	147°	1,395'	187°	1,174'	192°	1,370'	196°	1,150'	146°	1,854'	146°	1,702'	147°	1,566'	157°	978'
Blank	Piegan Latrine	210°	877'	214°	869'	238°	1,032'	132°	1,326'	176°	888'	184°	1,062'	186°	833'	135°	1,780'	134°	1,627'	134°	1,492'	135°	868'
Blank	Quartermaster	248°	1,907'	250°	1,938'	257°	2,266'	202°	908'	236°	1,517'	234°	1,734'	241°	1,626'	183°	1,208'	189°	1,101'	194°	1,016'	232°	923'
Blank	Sac Latrine	219°	1,377'	222°	1,379'	237°	1,564'	155°	1,309'	197°	1,244'	201°	1,455'	205°	1,249'	152°	1,761'	153°	1,611'	154°	1,479'	169°	937'
Blank	Scoutmasters' Circle	231°	1,528'	234°	1,543'	246°	1,794'	168°	1,101'	213°	1,279'	214°	1,504'	220°	1,329'	161°	1,529'	163°	1,387'	165°	1,262'	190°	824'
Blank	Sioux West Latrine	227°	847'	231°	857'	251°	1,120'	131°	1,067'	189°	711'	196°	913'	203°	702'	135°	1,521'	134°	1,368'	133°	1,233'	136°	609'
Blank	S Entrance Monument	253°	3,187'	254°	3,222'	258°	3,563'	237°	1,941'	247°	2,755'	245°	2,957'	250°	2,885'	223°	1,963'	228°	1,952'	232°	1,950'	248°	2,154'
Blank	Thomas Lodge	255°	2,372'	256°	2,408'	261°	2,761'	229°	1,148'	247°	1,936'	244°	2,139'	250°	2,066'	208°	1,265'	214°	1,216'	221°	1,185'	249°	1,335'
Blank	Trading Post	237°	2,056'	238°	2,076'	247°	2,345'	193°	1,286'	224°	1,744'	224°	1,969'	229°	1,823'	181°	1,617'	184°	1,505'	188°	1,410'	214°	1,193'
Blank	Water Tower	223°	1,499'	225°	1,504'	239°	1,706'	162°	1,285'	203°	1,326'	205°	1,543'	210°	1,347'	157°	1,727'	158°	1,581'	160°	1,452'	179°	954'
Casady	Cayuga Latrine	222°	1,990'	224°	1,994'	235°	2,179'	177°	1,592'	208°	1,798'	209°	2,020'	213°	1,831'	170°	1,988'	172°	1,857'	174°	1,742'	193°	1,357'
Casady	Climbing Tower	244°	2,755'	245°	2,781'	251°	3,082'	219°	1,695'	236°	2,378'	235°	2,595'	239°	2,485'	205°	1,862'	209°	1,802'	213°	1,757'	234°	1,783'

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Ridge	Location	Flaming Arrow Cabin		Flaming Arrow Latrine		Fort Madison		Fort Pella		Frankel Parking Latrine		Frankel Pool Showers		Frankel Trading Post		Hopi Soapy		Hoxie Cabin		Hoxie Latrine		Lake Front Latrine	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Casady	Crow Adirondack	231°	2,439'	232°	2,452'	240°	2,680'	196°	1,732'	220°	2,167'	220°	2,393'	224°	2,232'	185°	2,042'	188°	1,938'	192°	1,850'	211°	1,635'
Casady	Crow Latrine	228°	2,416'	229°	2,426'	238°	2,635'	192°	1,792'	216°	2,171'	216°	2,396'	220°	2,226'	182°	2,123'	185°	2,012'	188°	1,918'	206°	1,661'
Casady	Fort Clatsop	227°	2,536'	228°	2,545'	237°	2,748'	193°	1,906'	216°	2,294'	216°	2,520'	220°	2,349'	184°	2,228'	187°	2,121'	190°	2,029'	207°	1,783'
Casady	Iriquois Latrine	219°	2,338'	221°	2,338'	230°	2,492'	182°	1,939'	207°	2,167'	208°	2,387'	211°	2,195'	174°	2,315'	177°	2,191'	179°	2,082'	194°	1,725'
Casady	Kickapoo Latrine	236°	2,370'	237°	2,388'	245°	2,647'	200°	1,556'	225°	2,060'	224°	2,285'	229°	2,139'	188°	1,845'	192°	1,746'	195°	1,664'	217°	1,502'
Casady	Kiowa Adirondack	222°	2,581'	223°	2,585'	232°	2,755'	189°	2,063'	211°	2,379'	212°	2,603'	215°	2,419'	181°	2,406'	183°	2,292'	186°	2,194'	201°	1,900'
Casady	Kiowa Latrine	220°	2,492'	221°	2,494'	230°	2,650'	185°	2,044'	208°	2,311'	209°	2,533'	212°	2,344'	177°	2,405'	180°	2,286'	182°	2,183'	197°	1,854'
Casady	Mohawk Latrine	232°	2,501'	234°	2,516'	242°	2,754'	199°	1,740'	222°	2,214'	222°	2,439'	226°	2,285'	188°	2,033'	191°	1,934'	195°	1,851'	214°	1,669'
Casady	Mohawk Shelter	233°	2,545'	235°	2,561'	242°	2,804'	201°	1,755'	223°	2,250'	223°	2,475'	227°	2,324'	190°	2,036'	193°	1,941'	196°	1,861'	216°	1,699'
Casady	Navajo Latrine	212°	1,900'	213°	1,893'	226°	2,005'	166°	1,795'	196°	1,810'	198°	2,019'	201°	1,807'	161°	2,225'	163°	2,083'	165°	1,958'	178°	1,477'
Casady	Onadaga Adirondack	224°	2,661'	225°	2,667'	233°	2,847'	192°	2,088'	213°	2,443'	214°	2,668'	217°	2,489'	183°	2,416'	186°	2,307'	188°	2,214'	204°	1,949'
Casady	Onadaga Latrine	225°	2,705'	226°	2,711'	234°	2,898'	193°	2,102'	214°	2,478'	215°	2,703'	218°	2,528'	185°	2,420'	187°	2,315'	190°	2,224'	206°	1,975'
Casady	Oneida Adirondack	227°	2,786'	229°	2,795'	236°	2,998'	197°	2,106'	218°	2,535'	218°	2,761'	221°	2,594'	188°	2,401'	191°	2,303'	194°	2,219'	210°	2,012'
Casady	Oneida Latrine	228°	2,838'	229°	2,849'	237°	3,056'	199°	2,132'	219°	2,581'	219°	2,806'	222°	2,642'	190°	2,418'	193°	2,322'	196°	2,242'	211°	2,051'
Casady	Scott Marshall Shelter	232°	2,876'	233°	2,890'	240°	3,122'	204°	2,069'	223°	2,585'	223°	2,811'	227°	2,659'	194°	2,324'	197°	2,238'	200°	2,167'	217°	2,032'
Casady	Seneca Latrine	216°	2,152'	218°	2,150'	228°	2,286'	175°	1,873'	202°	2,014'	204°	2,231'	207°	2,030'	169°	2,275'	171°	2,142'	173°	2,026'	188°	1,614'
Casady	Shotgun Shelter	235°	3,646'	236°	3,664'	241°	3,907'	215°	2,713'	228°	3,327'	228°	3,551'	231°	3,413'	206°	2,885'	209°	2,827'	212°	2,781'	225°	2,751'
Frankel	Bear Creek Lodge	294°	2,069'	294°	2,128'	294°	2,565'	326°	853'	297°	1,560'	289°	1,624'	296°	1,731'	331°	395'	328°	546'	326°	681'	319°	1,295'
Frankel	Blacksmith Shop	124°	404'	124°	342'	267°	111'	101°	1,790'	113°	908'	127°	869'	114°	736'	109°	2,157'	107°	2,026'	105°	1,913'	93°	1,380'
Frankel	Chanotedah Latrine	284°	1,332'	286°	1,389'	288°	1,821'	32°	248'	285°	814'	272°	931'	286°	985'	111°	440'	97°	314'	74°	234'	333°	537'
Frankel	Chanotedah Shelter	282°	1,291'	284°	1,346'	286°	1,776'	46°	225'	282°	772'	269°	900'	283°	942'	115°	488'	105°	354'	87°	255'	333°	475'
Frankel	Chief	268°	2,957'	269°	3,004'	272°	3,401'	262°	1,550'	265°	2,462'	261°	2,626'	266°	2,619'	245°	1,388'	251°	1,435'	256°	1,487'	271°	1,911'
Frankel	Cope Latrine	283°	2,267'	284°	2,323'	285°	2,752'	296°	877'	283°	1,748'	277°	1,861'	283°	1,919'	273°	508'	283°	622'	290°	735'	299°	1,337'
Frankel	Cope Shelter	284°	2,337'	285°	2,393'	286°	2,824'	298°	957'	284°	1,818'	278°	1,925'	285°	1,989'	279°	571'	287°	694'	292°	811'	301°	1,417'
Frankel	Dan Beard Trailhead	295°	1,977'	295°	2,037'	295°	2,473'	333°	804'	299°	1,472'	291°	1,529'	298°	1,641'	345°	359'	338°	502'	334°	633'	323°	1,233'
Frankel	Duplex	266°	2,998'	267°	3,044'	270°	3,435'	258°	1,603'	262°	2,509'	259°	2,679'	264°	2,663'	242°	1,466'	247°	1,505'	252°	1,550'	268°	1,948'
Frankel	Flaming Arrow Cabin			309°	62'	297°	496'	95°	1,427'	104°	519'	130°	467'	101°	348'	106°	1,770'	103°	1,645'	100°	1,538'	82°	1,054'
Frankel	Flaming Arrow Latrine	129°	62'			295°	436'	96°	1,479'	106°	575'	129°	529'	105°	404'	107°	1,827'	104°	1,700'	101°	1,593'	85°	1,097'
Frankel	Fort Madison	117°	496'	115°	436'			100°	1,898'	110°	1,009'	123°	957'	110°	837'	108°	2,260'	106°	2,130'	104°	2,019'	93°	1,490'

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Ridge	Location	Flaming Arrow Cabin		Flaming Arrow Latrine		Fort Madison		Fort Pella		Frankel Parking Latrine		Frankel Pool Showers		Frankel Trading Post		Hopi Soapy		Hoxie Cabin		Hoxie Latrine		Lake Front Latrine		
		Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel
Frankel	Fort Pella	275°	1,427'	276°	1,479'	280°	1,898'		270°	918'	261°	1,076'	273°	1,082'	143°	460'	144°	307'	147°	171'	305°	463'		
Frankel	Frankel Parking Latrine	284°	519'	286°	575'	290°	1,009'	90°	918'		220°	226'	289°	172'	107°	1,252'	103°	1,126'	98°	1,021'	64°	602'		
Frankel	Frankel Pool Showers	310°	467'	309°	529'	303°	957'	81°	1,076'	40°	226'		356°	232'	98°	1,355'	93°	1,244'	89°	1,155'	57°	814'		
Frankel	Frankel Trading Post	281°	348'	285°	404'	290°	837'	93°	1,082'	109°	172'	176°	232'		107°	1,423'	104°	1,297'	100°	1,190'	73°	733'		
Frankel	Hopi Soapy	286°	1,770'	287°	1,827'	288°	2,260'	323°	460'	287°	1,252'	278°	1,355'	287°	1,423'		320°	153'	320°	290'	314°	912'		
Frankel	Hoxie Cabin	283°	1,645'	284°	1,700'	286°	2,130'	324°	307'	283°	1,126'	273°	1,244'	284°	1,297'	140°	153'		320°	136'	313°	760'		
Frankel	Hoxie Latrine	280°	1,538'	281°	1,593'	284°	2,019'	327°	171'	278°	1,021'	269°	1,155'	280°	1,190'	140°	290'	140°	136'		311°	625'		
Frankel	Lake Front Latrine	262°	1,054'	265°	1,097'	273°	1,490'	125°	463'	244°	602'	237°	814'	253°	733'	134°	912'	133°	760'	131°	625'			
Frankel	Lake Front Tower	266°	1,215'	268°	1,261'	275°	1,662'	134°	293'	254°	737'	246°	932'	260°	882'	139°	751'	139°	598'	139°	461'	291°	179'	
Frankel	Longhouse	267°	2,824'	268°	2,870'	271°	3,265'	259°	1,425'	263°	2,332'	260°	2,501'	265°	2,488'	240°	1,290'	247°	1,326'	252°	1,371'	270°	1,776'	
Frankel	Monroe	267°	2,980'	268°	3,026'	271°	3,421'	260°	1,578'	264°	2,487'	260°	2,654'	265°	2,643'	243°	1,428'	249°	1,471'	254°	1,520'	270°	1,932'	
Frankel	Newplex	266°	3,111'	267°	3,157'	270°	3,549'	259°	1,713'	263°	2,621'	260°	2,789'	265°	2,776'	244°	1,563'	249°	1,607'	254°	1,657'	268°	2,062'	
Frankel	Old Quartermaster	325°	453'	323°	512'	310°	920'	78°	1,190'	45°	350'	54°	127'	15°	317'	95°	1,448'	90°	1,344'	85°	1,261'	57°	940'	
Frankel	Old Ranger	269°	2,899'	269°	2,946'	273°	3,346'	263°	1,488'	265°	2,401'	262°	2,564'	267°	2,559'	245°	1,319'	251°	1,368'	256°	1,423'	272°	1,856'	
Frankel	Pine Lodge	326°	365'	324°	425'	309°	834'	82°	1,231'	59°	350'	88°	156'	30°	274'	97°	1,509'	93°	1,400'	88°	1,311'	62°	952'	
Frankel	Richey Nature Cabin	97°	317'	89°	267'	325°	226'	95°	1,744'	101°	834'	116°	753'	99°	665'	105°	2,083'	102°	1,960'	99°	1,855'	85°	1,363'	
Frankel	Sawtelle Shelter	33°	169'	14°	186'	316°	505'	89°	1,515'	88°	597'	109°	479'	80°	441'	101°	1,827'	98°	1,711'	94°	1,613'	76°	1,172'	
Frankel	Shop Office	265°	3,278'	266°	3,323'	269°	3,711'	258°	1,887'	262°	2,791'	259°	2,962'	263°	2,945'	244°	1,742'	249°	1,786'	253°	1,833'	267°	2,227'	
Frankel	Tew Cabin	55°	239'	40°	230'	325°	438'	89°	1,617'	89°	699'	106°	577'	82°	542'	100°	1,928'	97°	1,812'	94°	1,715'	77°	1,271'	
Frankel	Uncle Bade's Cabin	104°	430'	100°	375'	347°	120'	97°	1,853'	104°	949'	117°	875'	103°	778'	106°	2,200'	103°	2,075'	101°	1,967'	88°	1,462'	
Frankel	Wakan Latrine	283°	1,014'	285°	1,070'	288°	1,502'	76°	449'	283°	496'	264°	630'	285°	667'	110°	758'	103°	630'	94°	529'	9°	382'	
Frankel	Wakan Shelter	281°	1,117'	282°	1,171'	285°	1,600'	76°	334'	278°	599'	263°	744'	280°	768'	115°	667'	108°	531'	99°	422'	351°	352'	
Frankel	Windmill	113°	484'	111°	425'	0°	30'	100°	1,892'	108°	999'	121°	941'	108°	827'	108°	2,251'	105°	2,122'	103°	2,012'	92°	1,489'	
Frankel	Zuni Shelter	279°	1,833'	280°	1,887'	283°	2,311'	294°	423'	277°	1,316'	270°	1,449'	279°	1,485'	209°	223'	249°	221'	275°	295'	300°	882'	
Frankel	Zuni Soapy	277°	1,839'	278°	1,891'	281°	2,312'	282°	414'	274°	1,326'	267°	1,470'	276°	1,492'	204°	306'	234°	277'	260°	317'	294°	859'	

To find your directions go across the top row to the correct starting point column. Then follow it down to the row that has the right ending point. Read your degree and distance.

Ridge	Location	Lake Front Tower		Longhouse		Monroe		Newplex		Old Quartermaster		Old Ranger		Pine Lodge		Richey Nature Cabin		Sawelle Shelter		Shop Office		Tew Cabin	
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance
Blank	Amphitheater Stage	204°	412'	102°	1,475'	101°	1,628'	99°	1,748'	233°	1,394'	104°	1,571'	237°	1,399'	256°	1,744'	248°	1,588'	96°	1,899'	249°	1,682'
Blank	Blank Pool Showers	234°	1,273'	139°	896'	133°	1,004'	126°	1,075'	239°	2,318'	139°	1,013'	241°	2,330'	253°	2,675'	247°	2,527'	119°	1,172'	248°	2,620'
Blank	Chaplain's Cabin	193°	948'	121°	1,637'	119°	1,772'	116°	1,866'	220°	1,803'	122°	1,749'	223°	1,787'	241°	1,989'	233°	1,900'	112°	1,985'	235°	1,980'
Blank	Chipewa Shelter	228°	697'	110°	1,154'	107°	1,302'	104°	1,414'	238°	1,737'	112°	1,258'	241°	1,748'	256°	2,111'	249°	1,951'	100°	1,557'	251°	2,046'
Blank	Chippewa Latrine	231°	559'	103°	1,206'	102°	1,358'	99°	1,477'	240°	1,605'	106°	1,303'	243°	1,619'	259°	2,002'	252°	1,832'	96°	1,628'	253°	1,928'
Blank	Clayman Chapel	193°	583'	109°	1,554'	107°	1,703'	104°	1,815'	227°	1,492'	111°	1,657'	230°	1,487'	250°	1,771'	241°	1,642'	101°	1,956'	243°	1,731'
Blank	Deere Conf Center	236°	1,445'	151°	845'	142°	931'	135°	982'	240°	2,494'	149°	959'	242°	2,508'	253°	2,855'	248°	2,706'	126°	1,057'	248°	2,800'
Blank	Dining Hall	179°	1,035'	120°	1,898'	118°	2,033'	116°	2,128'	212°	1,753'	122°	2,009'	215°	1,725'	234°	1,848'	225°	1,793'	112°	2,246'	228°	1,865'
Blank	Directors Cabin	244°	1,314'	139°	651'	131°	762'	122°	839'	245°	2,370'	139°	768'	247°	2,390'	257°	2,780'	252°	2,612'	113°	947'	253°	2,709'
Blank	Flags	174°	811'	114°	1,842'	112°	1,986'	109°	2,091'	215°	1,533'	115°	1,949'	218°	1,509'	239°	1,678'	230°	1,599'	106°	2,223'	232°	1,677'
Blank	Fox Latrine	151°	702'	106°	2,021'	104°	2,172'	103°	2,287'	210°	1,232'	107°	2,121'	214°	1,202'	241°	1,359'	229°	1,278'	100°	2,431'	232°	1,355'
Blank	Friendship Circle	236°	1,128'	130°	873'	124°	998'	118°	1,086'	240°	2,178'	131°	989'	242°	2,193'	255°	2,554'	249°	2,397'	111°	1,202'	250°	2,492'
Blank	Health Lodge	249°	1,542'	161°	515'	146°	586'	134°	634'	247°	2,596'	157°	625'	249°	2,620'	259°	3,025'	254°	2,851'	121°	718'	255°	2,948'
Blank	Leader Showers	214°	934'	123°	1,286'	119°	1,420'	116°	1,514'	230°	1,922'	124°	1,400'	233°	1,922'	248°	2,211'	242°	2,085'	111°	1,633'	243°	2,174'
Blank	Mort Miles Lodge	240°	813'	111°	967'	108°	1,115'	104°	1,227'	242°	1,868'	113°	1,072'	245°	1,886'	258°	2,275'	252°	2,104'	99°	1,371'	253°	2,201'
Blank	Osage Latrine	133°	736'	101°	2,188'	101°	2,341'	99°	2,461'	204°	1,044'	103°	2,283'	208°	1,005'	241°	1,132'	227°	1,057'	97°	2,611'	230°	1,131'
Blank	Ottawa Latrine	262°	830'	93°	787'	93°	943'	90°	1,071'	252°	1,865'	99°	874'	255°	1,897'	266°	2,355'	261°	2,154'	87°	1,235'	261°	2,254'
Blank	Pawnee Latrine	150°	1,110'	112°	2,341'	111°	2,486'	109°	2,592'	196°	1,467'	113°	2,447'	199°	1,417'	224°	1,396'	212°	1,398'	106°	2,724'	216°	1,453'
Blank	Piegan Latrine	131°	1,033'	104°	2,462'	103°	2,613'	102°	2,729'	189°	1,148'	106°	2,559'	192°	1,090'	226°	1,044'	210°	1,046'	100°	2,874'	215°	1,099'
Blank	Quartermaster	221°	844'	118°	1,195'	115°	1,334'	111°	1,435'	234°	1,861'	120°	1,305'	237°	1,866'	252°	2,191'	245°	2,048'	106°	1,564'	246°	2,140'
Blank	Sac Latrine	161°	1,041'	115°	2,150'	113°	2,292'	111°	2,394'	203°	1,563'	116°	2,258'	206°	1,523'	229°	1,572'	219°	1,545'	108°	2,522'	222°	1,609'
Blank	Scoutmasters' Circle	179°	873'	116°	1,813'	114°	1,954'	112°	2,055'	215°	1,623'	118°	1,921'	218°	1,600'	239°	1,766'	230°	1,690'	108°	2,182'	232°	1,767'
Blank	Sioux West Latrine	130°	775'	101°	2,243'	100°	2,396'	99°	2,516'	201°	1,017'	103°	2,337'	205°	974'	240°	1,080'	225°	1,012'	97°	2,667'	229°	1,084'
Blank	S Entrance Monument	245°	2,025'	196°	820'	185°	792'	175°	746'	245°	3,081'	190°	888'	246°	3,102'	255°	3,480'	251°	3,320'	162°	705'	252°	3,415'
Blank	Thomas Lodge	243°	1,208'	132°	718'	125°	841'	118°	927'	244°	2,263'	133°	834'	246°	2,283'	257°	2,669'	252°	2,502'	110°	1,045'	253°	2,598'
Blank	Trading Post	206°	1,163'	132°	1,471'	128°	1,591'	124°	1,669'	224°	2,094'	132°	1,587'	227°	2,084'	242°	2,309'	235°	2,212'	119°	1,768'	237°	2,295'
Blank	Water Tower	169°	1,035'	118°	2,033'	116°	2,172'	113°	2,271'	207°	1,656'	119°	2,143'	210°	1,621'	231°	1,706'	222°	1,665'	110°	2,394'	225°	1,733'
Casady	Cayuga Latrine	185°	1,392'	132°	1,976'	129°	2,095'	126°	2,171'	211°	2,136'	132°	2,092'	213°	2,105'	229°	2,191'	222°	2,157'	122°	2,264'	224°	2,224'
Casady	Climbing Tower	228°	1,692'	162°	1,104'	155°	1,162'	148°	1,185'	235°	2,722'	160°	1,212'	236°	2,727'	247°	3,027'	242°	2,901'	140°	1,220'	243°	2,991'

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Ridge	Location	Lake Front Tower		Longhouse		Monroe		Newplex		Old Quartermaster		Old Ranger		Pine Lodge		Richey Nature Cabin		Sawelle Shelter		Shop Office		Tew Cabin	
		Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance
Casady	Crow Adirondack	205°	1,612'	146°	1,676'	142°	1,767'	138°	1,816'	220°	2,516'	146°	1,792'	222°	2,500'	236°	2,669'	230°	2,601'	133°	1,877'	231°	2,677'
Casady	Crow Latrine	200°	1,652'	145°	1,807'	141°	1,901'	137°	1,951'	217°	2,518'	145°	1,923'	219°	2,497'	233°	2,635'	227°	2,581'	132°	2,013'	228°	2,654'
Casady	Fort Clatsop	201°	1,772'	148°	1,854'	145°	1,940'	141°	1,983'	217°	2,641'	148°	1,969'	219°	2,620'	232°	2,752'	226°	2,701'	136°	2,035'	228°	2,773'
Casady	Iriquois Latrine	189°	1,754'	141°	2,139'	138°	2,241'	135°	2,297'	209°	2,502'	141°	2,256'	211°	2,469'	225°	2,522'	219°	2,506'	131°	2,366'	220°	2,568'
Casady	Kickapoo Latrine	211°	1,461'	144°	1,467'	139°	1,564'	135°	1,619'	225°	2,410'	143°	1,583'	227°	2,400'	240°	2,618'	234°	2,527'	129°	1,689'	236°	2,609'
Casady	Kiowa Adirondack	196°	1,907'	148°	2,075'	145°	2,161'	141°	2,203'	213°	2,720'	148°	2,190'	214°	2,693'	227°	2,777'	222°	2,748'	137°	2,252'	223°	2,814'
Casady	Kiowa Latrine	192°	1,873'	145°	2,145'	142°	2,237'	139°	2,285'	210°	2,649'	145°	2,261'	212°	2,618'	225°	2,679'	219°	2,660'	134°	2,342'	221°	2,724'
Casady	Mohawk Latrine	208°	1,636'	149°	1,606'	144°	1,693'	140°	1,737'	222°	2,563'	148°	1,721'	224°	2,550'	237°	2,738'	231°	2,661'	134°	1,793'	233°	2,740'
Casady	Mohawk Shelter	210°	1,660'	150°	1,571'	146°	1,653'	141°	1,694'	223°	2,600'	150°	1,685'	225°	2,588'	238°	2,785'	232°	2,705'	135°	1,746'	234°	2,784'
Casady	Navajo Latrine	172°	1,555'	129°	2,343'	126°	2,467'	124°	2,546'	200°	2,123'	129°	2,458'	202°	2,079'	220°	2,054'	212°	2,069'	121°	2,643'	214°	2,122'
Casady	Onadaga Adirondack	199°	1,946'	151°	2,024'	147°	2,104'	144°	2,140'	215°	2,787'	150°	2,138'	216°	2,762'	229°	2,864'	223°	2,827'	139°	2,182'	225°	2,896'
Casady	Onadaga Latrine	201°	1,967'	153°	1,994'	149°	2,070'	145°	2,103'	216°	2,823'	152°	2,107'	217°	2,800'	230°	2,911'	224°	2,871'	140°	2,141'	225°	2,940'
Casady	Oneida Adirondack	205°	1,991'	156°	1,898'	152°	1,966'	148°	1,992'	218°	2,883'	155°	2,009'	220°	2,864'	232°	3,002'	227°	2,950'	143°	2,022'	228°	3,023'
Casady	Oneida Latrine	206°	2,025'	158°	1,877'	154°	1,941'	150°	1,963'	219°	2,929'	157°	1,988'	221°	2,911'	233°	3,058'	227°	3,002'	145°	1,988'	229°	3,076'
Casady	Scott Marshall Shelter	212°	1,988'	161°	1,702'	156°	1,759'	152°	1,774'	223°	2,935'	160°	1,810'	225°	2,923'	236°	3,110'	231°	3,036'	146°	1,793'	232°	3,114'
Casady	Seneca Latrine	182°	1,663'	136°	2,225'	133°	2,337'	130°	2,404'	205°	2,342'	136°	2,342'	207°	2,304'	223°	2,325'	216°	2,321'	126°	2,485'	218°	2,380'
Casady	Shotgun Shelter	221°	2,682'	185°	1,948'	180°	1,941'	176°	1,900'	228°	3,677'	182°	2,030'	229°	3,671'	238°	3,889'	234°	3,804'	171°	1,843'	235°	3,885'
Frankel	Bear Creek Lodge	323°	1,141'	43°	1,354'	48°	1,465'	50°	1,592'	286°	1,699'	48°	1,349'	287°	1,771'	292°	2,373'	289°	2,103'	51°	1,764'	288°	2,201'
Frankel	Blacksmith Shop	95°	1,552'	91°	3,154'	91°	3,310'	90°	3,438'	135°	842'	93°	3,235'	135°	755'	175°	193'	147°	440'	89°	3,600'	159°	391'
Frankel	Chanotedah Latrine	349°	421'	72°	1,605'	74°	1,755'	74°	1,891'	268°	1,033'	76°	1,657'	272°	1,086'	283°	1,647'	278°	1,396'	73°	2,068'	277°	1,498'
Frankel	Chanotedah Shelter	352°	363'	75°	1,619'	76°	1,770'	76°	1,906'	265°	1,006'	78°	1,674'	269°	1,056'	281°	1,606'	276°	1,360'	75°	2,082'	276°	1,462'
Frankel	Chief	269°	1,743'	290°	143'	24°	52'	58°	176'	260°	2,739'	236°	69'	262°	2,781'	269°	3,271'	265°	3,058'	62°	354'	266°	3,159'
Frankel	Cope Latrine	301°	1,160'	43°	904'	49°	1,017'	52°	1,145'	274°	1,955'	50°	901'	276°	2,015'	282°	2,582'	279°	2,331'	53°	1,319'	279°	2,432'
Frankel	Cope Shelter	302°	1,241'	37°	916'	44°	1,018'	47°	1,142'	276°	2,017'	45°	902'	278°	2,079'	283°	2,652'	280°	2,398'	50°	1,313'	280°	2,499'
Frankel	Dan Beard Trailhead	328°	1,085'	46°	1,428'	50°	1,544'	52°	1,673'	287°	1,602'	51°	1,429'	289°	1,674'	293°	2,280'	290°	2,008'	53°	1,847'	289°	2,105'
Frankel	Duplex	266°	1,783'	252°	179'	196°	56'	95°	114'	258°	2,794'	213°	169'	260°	2,833'	267°	3,310'	264°	3,104'	77°	284'	264°	3,205'
Frankel	Flaming Arrow Cabin	86°	1,215'	87°	2,824'	87°	2,980'	86°	3,111'	145°	453'	89°	2,899'	146°	365'	277°	317'	213°	169'	85°	3,278'	235°	239'
Frankel	Flaming Arrow Latrine	88°	1,261'	88°	2,870'	88°	3,026'	87°	3,157'	143°	512'	89°	2,946'	144°	425'	269°	267'	194°	186'	86°	3,323'	220°	230'
Frankel	Fort Madison	95°	1,662'	91°	3,265'	91°	3,421'	90°	3,549'	130°	920'	93°	3,346'	129°	834'	145°	226'	136°	505'	89°	3,711'	145°	438'

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Ridge	Location	Frankel		Longhouse		Frankel		Monroe		Frankel		Newplex		Frankel		Old Quartermaster		Frankel		Old Ranger		Frankel		Pine Lodge		Frankel		Richey Nature Cabin		Frankel		Sawtelle Shelter		Frankel		Shop Office		Frankel		Tew Cabin				
		Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance	Degrees	Distance					
Frankel	Fort Pella	314°	293'	79°	1,425'	80°	1,578'	79°	1,713'	258°	1,190'	83°	1,488'	262°	1,231'	275°	1,744'	269°	1,515'	78°	1,887'	269°	1,617'																					
Frankel	Frankel Parking Latrine	74°	737'	83°	2,332'	84°	2,487'	83°	2,621'	225°	350'	85°	2,401'	239°	350'	281°	834'	268°	597'	82°	2,791'	269°	699'																					
Frankel	Frankel Pool Showers	66°	932'	80°	2,501'	80°	2,654'	80°	2,789'	234°	127'	82°	2,564'	268°	156'	296°	753'	289°	479'	79°	2,962'	286°	577'																					
Frankel	Frankel Trading Post	80°	882'	85°	2,488'	85°	2,643'	85°	2,776'	195°	317'	87°	2,559'	210°	274'	279°	665'	260°	441'	83°	2,945'	262°	542'																					
Frankel	Hopi Soapy	319°	751'	60°	1,290'	63°	1,428'	64°	1,563'	275°	1,448'	65°	1,319'	277°	1,509'	285°	2,083'	281°	1,827'	64°	1,742'	280°	1,928'																					
Frankel	Hoxie Cabin	319°	598'	67°	1,326'	69°	1,471'	69°	1,607'	270°	1,344'	71°	1,368'	273°	1,400'	282°	1,960'	278°	1,711'	69°	1,786'	277°	1,812'																					
Frankel	Hoxie Latrine	319°	461'	72°	1,371'	74°	1,520'	74°	1,657'	265°	1,261'	76°	1,423'	268°	1,311'	279°	1,855'	274°	1,613'	73°	1,833'	274°	1,715'																					
Frankel	Lake Front Latrine	111°	179'	90°	1,776'	90°	1,932'	88°	2,062'	237°	940'	92°	1,856'	242°	952'	265°	1,363'	256°	1,172'	87°	2,227'	257°	1,271'																					
Frankel	Lake Front Tower			87°	1,610'	88°	1,765'	86°	1,897'	245°	1,056'	91°	1,686'	249°	1,079'	268°	1,528'	260°	1,324'	85°	2,064'	261°	1,424'																					
Frankel	Longhouse	267°	1,610'			90°	156'	81°	289'	258°	2,615'	138°	117'	260°	2,655'	268°	3,137'	264°	2,928'	75°	463'	264°	3,029'																					
Frankel	Monroe	268°	1,765'	270°	156'			71°	137'	259°	2,768'	222°	117'	261°	2,809'	268°	3,293'	265°	3,083'	68°	315'	265°	3,184'																					
Frankel	Newplex	266°	1,897'	261°	289'	251°	137'			259°	2,903'	237°	246'	260°	2,944'	267°	3,424'	264°	3,216'	65°	179'	264°	3,317'																					
Frankel	Old Quartermaster	65°	1,056'	78°	2,615'	79°	2,768'	79°	2,903'			81°	2,676'	322°	88'	305°	703'	303°	420'	78°	3,077'	297°	510'																					
Frankel	Old Ranger	271°	1,686'	318°	117'	42°	117'	57°	246'	261°	2,676'			262°	2,719'	269°	3,213'	266°	2,998'	61°	423'	266°	3,100'																					
Frankel	Pine Lodge	69°	1,079'	80°	2,655'	81°	2,809'	80°	2,944'	142°	88'	82°	2,719'			303°	620'	299°	338'	79°	3,117'	292°	432'																					
Frankel	Richey Nature Cabin	88°	1,528'	88°	3,137'	88°	3,293'	87°	3,424'	125°	703'	89°	3,213'	123°	620'			129°	284'	86°	3,590'	145°	211'																					
Frankel	Sawtelle Shelter	80°	1,324'	84°	2,928'	85°	3,083'	84°	3,216'	123°	420'	86°	2,998'	119°	338'	309°	284'			83°	3,385'	272°	102'																					
Frankel	Shop Office	265°	2,064'	255°	463'	248°	315'	245°	179'	258°	3,077'	241°	423'	259°	3,117'	266°	3,590'	263°	3,385'			263°	3,486'																					
Frankel	Tew Cabin	81°	1,424'	84°	3,029'	85°	3,184'	84°	3,317'	117°	510'	86°	3,100'	112°	432'	325°	211'	92°	102'	83°	3,486'																							
Frankel	Uncle Bade's Cabin	91°	1,629'	89°	3,237'	89°	3,393'	88°	3,523'	125°	827'	91°	3,315'	123°	743'	124°	123'	127°	407'	87°	3,688'	138°	329'																					
Frankel	Wakan Latrine	36°	387'	78°	1,873'	79°	2,026'	78°	2,162'	259°	742'	81°	1,934'	265°	786'	282°	1,330'	275°	1,084'	77°	2,336'	275°	1,186'																					
Frankel	Wakan Shelter	22°	307'	78°	1,759'	79°	1,912'	79°	2,047'	259°	857'	81°	1,820'	264°	899'	280°	1,433'	273°	1,193'	78°	2,221'	273°	1,295'																					
Frankel	Windmill	94°	1,660'	91°	3,264'	91°	3,420'	90°	3,549'	129°	900'	92°	3,344'	127°	815'	140°	202'	133°	484'	89°	3,712'	143°	413'																					
Frankel	Zuni Shelter	302°	705'	66°	1,105'	69°	1,250'	69°	1,386'	267°	1,553'	72°	1,147'	270°	1,605'	279°	2,149'	275°	1,908'	69°	1,564'	274°	2,010'																					
Frankel	Zuni Soapy	295°	680'	70°	1,057'	72°	1,205'	72°	1,342'	264°	1,577'	76°	1,106'	267°	1,626'	277°	2,156'	272°	1,921'	71°	1,519'	272°	2,023'																					

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Ridge	Location	Uncle Bades Cabin		Wakan Latrine		Wakan Shelter		Windmill		Zuni Shelter		Zuni Soapy	
		Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance
Blank	Amphitheater Stage	259°	1,829'	209°	795'	203°	719'	262°	1,840'	150°	868'	146°	806'
Blank	Blank Pool Showers	255°	2,753'	230°	1,645'	228°	1,542'	257°	2,758'	201°	1,207'	201°	1,122'
Blank	Chaplain's Cabin	244°	2,047'	199°	1,313'	195°	1,252'	246°	2,035'	163°	1,355'	162°	1,281'
Blank	Chipewa Shelter	258°	2,195'	224°	1,078'	220°	981'	261°	2,206'	175°	840'	173°	759'
Blank	Chippewa Latrine	261°	2,090'	225°	938'	221°	840'	263°	2,105'	167°	744'	164°	667'
Blank	Clayman Chapel	253°	1,846'	202°	953'	196°	888'	256°	1,848'	154°	1,049'	151°	983'
Blank	Deere Conf Center	254°	2,933'	232°	1,813'	230°	1,708'	256°	2,937'	207°	1,328'	208°	1,245'
Blank	Dining Hall	238°	1,894'	188°	1,364'	184°	1,323'	240°	1,873'	156°	1,542'	154°	1,473'
Blank	Directors Cabin	259°	2,866'	238°	1,663'	237°	1,553'	261°	2,877'	212°	1,110'	214°	1,030'
Blank	Flags	243°	1,735'	187°	1,131'	182°	1,092'	246°	1,722'	150°	1,363'	148°	1,300'
Blank	Fox Latrine	245°	1,419'	173°	937'	166°	928'	249°	1,410'	137°	1,362'	134°	1,316'
Blank	Friendship Circle	257°	2,636'	231°	1,497'	229°	1,393'	259°	2,643'	199°	1,061'	199°	975'
Blank	Health Lodge	260°	3,112'	242°	1,877'	241°	1,765'	262°	3,125'	222°	1,255'	224°	1,182'
Blank	Leader Showers	251°	2,283'	215°	1,322'	211°	1,236'	253°	2,282'	177°	1,148'	175°	1,066'
Blank	Mort Miles Lodge	261°	2,363'	232°	1,177'	230°	1,073'	263°	2,377'	188°	793'	187°	707'
Blank	Osage Latrine	246°	1,193'	159°	876'	152°	895'	251°	1,186'	128°	1,435'	125°	1,400'
Blank	Ottawa Latrine	268°	2,453'	248°	1,133'	247°	1,019'	270°	2,478'	205°	541'	207°	458'
Blank	Pawnee Latrine	229°	1,422'	165°	1,318'	160°	1,322'	232°	1,388'	139°	1,765'	137°	1,715'
Blank	Piegan Latrine	232°	1,076'	151°	1,139'	146°	1,172'	237°	1,048'	128°	1,733'	125°	1,698'
Blank	Quartermaster	254°	2,268'	219°	1,230'	216°	1,138'	257°	2,272'	178°	1,012'	176°	929'
Blank	Sac Latrine	233°	1,608'	175°	1,304'	170°	1,289'	236°	1,580'	145°	1,650'	143°	1,592'
Blank	Scoutmasters' Circle	242°	1,821'	190°	1,206'	185°	1,162'	245°	1,807'	154°	1,391'	151°	1,325'
Blank	Sioux West Latrine	245°	1,138'	156°	893'	148°	918'	250°	1,130'	126°	1,477'	123°	1,444'
Blank	S Entrance Monument	256°	3,562'	240°	2,370'	240°	2,259'	258°	3,569'	225°	1,748'	227°	1,676'
Blank	Thomas Lodge	259°	2,754'	236°	1,562'	235°	1,453'	261°	2,765'	207°	1,043'	209°	960'
Blank	Trading Post	244°	2,368'	208°	1,546'	205°	1,470'	247°	2,357'	176°	1,425'	175°	1,342'
Blank	Water Tower	235°	1,747'	181°	1,332'	177°	1,304'	238°	1,722'	150°	1,600'	148°	1,537'
Casady	Cayuga Latrine	232°	2,226'	192°	1,738'	188°	1,689'	235°	2,196'	165°	1,821'	164°	1,745'
Casady	Climbing Tower	249°	3,096'	226°	2,071'	224°	1,971'	251°	3,092'	204°	1,640'	205°	1,556'

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Ridge Location	Uncle Bades Cabin		Wakan Latrine		Wakan Shelter		Windmill		Zuni Shelter		Zuni Soapy	
	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance
Casady Crow Adirondack	238°	2,717'	207°	1,994'	204°	1,919'	240°	2,695'	182°	1,841'	182°	1,756'
Casady Crow Latrine	235°	2,677'	203°	2,028'	200°	1,959'	237°	2,651'	179°	1,926'	179°	1,843'
Casady Fort Clatsop	234°	2,792'	204°	2,149'	201°	2,079'	236°	2,765'	181°	2,028'	181°	1,944'
Casady Iriquois Latrine	228°	2,549'	193°	2,106'	191°	2,054'	230°	2,512'	171°	2,136'	170°	2,056'
Casady Kickapoo Latrine	243°	2,674'	212°	1,847'	209°	1,765'	244°	2,660'	185°	1,639'	185°	1,553'
Casady Kiowa Adirondack	230°	2,808'	199°	2,275'	197°	2,213'	232°	2,774'	178°	2,212'	177°	2,129'
Casady Kiowa Latrine	228°	2,706'	196°	2,233'	193°	2,176'	230°	2,670'	174°	2,218'	174°	2,137'
Casady Mohawk Latrine	239°	2,788'	210°	2,021'	207°	1,941'	241°	2,768'	185°	1,826'	185°	1,741'
Casady Mohawk Shelter	240°	2,837'	211°	2,046'	209°	1,964'	242°	2,818'	187°	1,827'	187°	1,741'
Casady Navajo Latrine	223°	2,070'	180°	1,854'	177°	1,827'	225°	2,026'	157°	2,081'	155°	2,011'
Casady Onadaga Adirondack	231°	2,897'	202°	2,319'	199°	2,252'	233°	2,865'	181°	2,217'	180°	2,133'
Casady Onadaga Latrine	232°	2,947'	203°	2,343'	201°	2,274'	234°	2,915'	182°	2,219'	182°	2,134'
Casady Oneida Adirondack	234°	3,042'	207°	2,372'	204°	2,297'	236°	3,015'	186°	2,194'	186°	2,109'
Casady Oneida Latrine	235°	3,100'	208°	2,408'	206°	2,331'	236°	3,073'	188°	2,208'	188°	2,123'
Casady Scott Marshall Shelter	238°	3,159'	213°	2,375'	211°	2,291'	240°	3,137'	193°	2,109'	193°	2,023'
Casady Seneca Latrine	226°	2,346'	188°	1,996'	185°	1,954'	228°	2,306'	165°	2,109'	164°	2,033'
Casady Shotgun Shelter	240°	3,941'	221°	3,068'	219°	2,973'	241°	3,921'	206°	2,662'	207°	2,579'
Frankel Bear Creek Lodge	292°	2,494'	304°	1,087'	308°	1,014'	294°	2,552'	351°	546'	354°	627'
Frankel Blacksmith Shop	214°	149'	109°	1,399'	107°	1,495'	252°	117'	104°	2,205'	101°	2,204'
Frankel Chanotedah Latrine	284°	1,762'	288°	319'	304°	231'	287°	1,812'	86°	520'	77°	551'
Frankel Chanotedah Shelter	283°	1,720'	279°	277'	295°	179'	285°	1,768'	92°	549'	83°	571'
Frankel Chief	270°	3,372'	260°	1,997'	261°	1,883'	271°	3,400'	251°	1,213'	254°	1,171'
Frankel Cope Latrine	283°	2,697'	283°	1,252'	286°	1,152'	285°	2,744'	299°	455'	308°	487'
Frankel Cope Shelter	284°	2,767'	285°	1,323'	288°	1,225'	286°	2,816'	302°	536'	310°	571'
Frankel Dan Beard Trailhead	293°	2,401'	307°	1,005'	312°	939'	295°	2,461'	2°	543'	3°	628'
Frankel Duplex	268°	3,410'	258°	2,052'	258°	1,937'	270°	3,435'	247°	1,284'	250°	1,236'
Frankel Flaming Arrow Cabin	284°	430'	103°	1,014'	101°	1,117'	293°	484'	99°	1,833'	97°	1,839'
Frankel Flaming Arrow Latrine	280°	375'	105°	1,070'	102°	1,171'	291°	425'	100°	1,887'	98°	1,891'
Frankel Fort Madison	167°	120'	108°	1,502'	105°	1,600'	180°	30'	103°	2,311'	101°	2,312'

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Ridge	Location	Uncle Bades Cabin		Wakan Latrine		Wakan Shelter		Windmill		Zuni Shelter		Zuni Soapy	
		Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance	Frankel	Degrees Distance
Frankel	Fort Pella	277°	1,853'	256°	449'	256°	334'	280°	1,892'	114°	423'	102°	414'
Frankel	Frankel Parking Latrine	284°	949'	103°	496'	98°	599'	288°	999'	97°	1,316'	94°	1,326'
Frankel	Frankel Pool Showers	297°	875'	84°	630'	83°	744'	301°	941'	90°	1,449'	87°	1,470'
Frankel	Frankel Trading Post	283°	778'	105°	667'	100°	768'	288°	827'	99°	1,485'	96°	1,492'
Frankel	Hopi Soapy	286°	2,200'	290°	758'	295°	667'	288°	2,251'	29°	223'	24°	306'
Frankel	Hoxie Cabin	283°	2,075'	283°	630'	288°	531'	285°	2,122'	69°	221'	54°	277'
Frankel	Hoxie Latrine	281°	1,967'	274°	529'	279°	422'	283°	2,012'	95°	295'	80°	317'
Frankel	Lake Front Latrine	268°	1,462'	189°	382'	171°	352'	272°	1,489'	120°	882'	114°	859'
Frankel	Lake Front Tower	271°	1,629'	216°	387'	202°	307'	274°	1,660'	122°	705'	115°	680'
Frankel	Longhouse	269°	3,237'	258°	1,873'	258°	1,759'	271°	3,264'	246°	1,105'	250°	1,057'
Frankel	Monroe	269°	3,393'	259°	2,026'	259°	1,912'	271°	3,420'	249°	1,250'	252°	1,205'
Frankel	Newplex	268°	3,523'	258°	2,162'	259°	2,047'	270°	3,549'	249°	1,386'	252°	1,342'
Frankel	Old Quartermaster	305°	827'	79°	742'	79°	857'	309°	900'	87°	1,553'	84°	1,577'
Frankel	Old Ranger	271°	3,315'	261°	1,934'	261°	1,820'	272°	3,344'	252°	1,147'	256°	1,106'
Frankel	Pine Lodge	303°	743'	85°	786'	84°	899'	307°	815'	90°	1,605'	87°	1,626'
Frankel	Richey Nature Cabin	304°	123'	102°	1,330'	100°	1,433'	320°	202'	99°	2,149'	97°	2,156'
Frankel	Sawtelle Shelter	307°	407'	95°	1,084'	93°	1,193'	313°	484'	95°	1,908'	92°	1,921'
Frankel	Shop Office	267°	3,688'	257°	2,336'	258°	2,221'	269°	3,712'	249°	1,564'	251°	1,519'
Frankel	Tew Cabin	318°	329'	95°	1,186'	93°	1,295'	323°	413'	94°	2,010'	92°	2,023'
Frankel	Uncle Bades Cabin			104°	1,444'	102°	1,546'	343°	91'	100°	2,261'	98°	2,266'
Frankel	Wakan Latrine	284°	1,444'			75°	115'	287°	1,493'	94°	824'	88°	840'
Frankel	Wakan Shelter	282°	1,546'	255°	115'			284°	1,592'	97°	717'	90°	729'
Frankel	Windmill	163°	91'	107°	1,493'	104°	1,592'			102°	2,305'	100°	2,306'
Frankel	Zuni Shelter	280°	2,261'	274°	824'	277°	717'	282°	2,305'			12°	86'
Frankel	Zuni Soapy	278°	2,266'	268°	840'	270°	729'	280°	2,306'	192°	86'		