

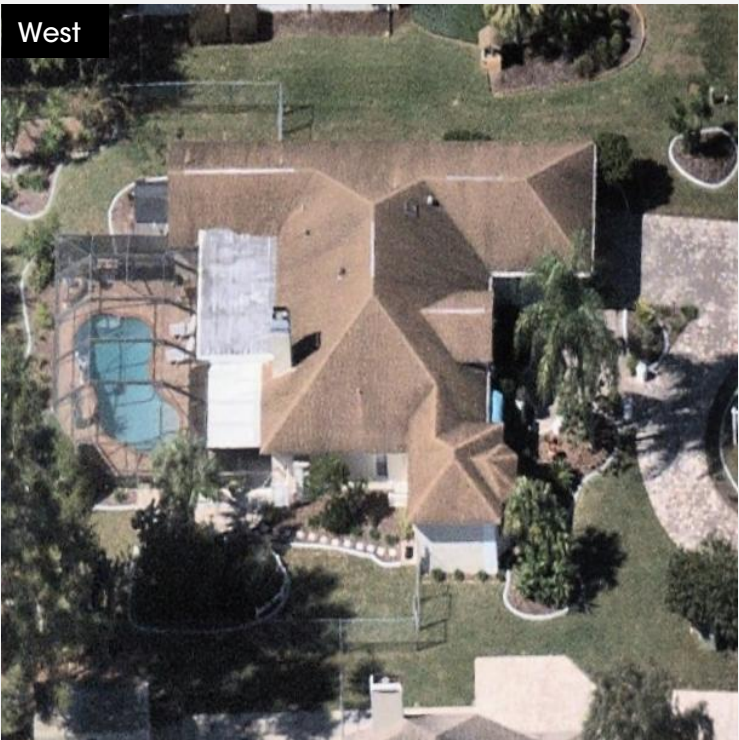
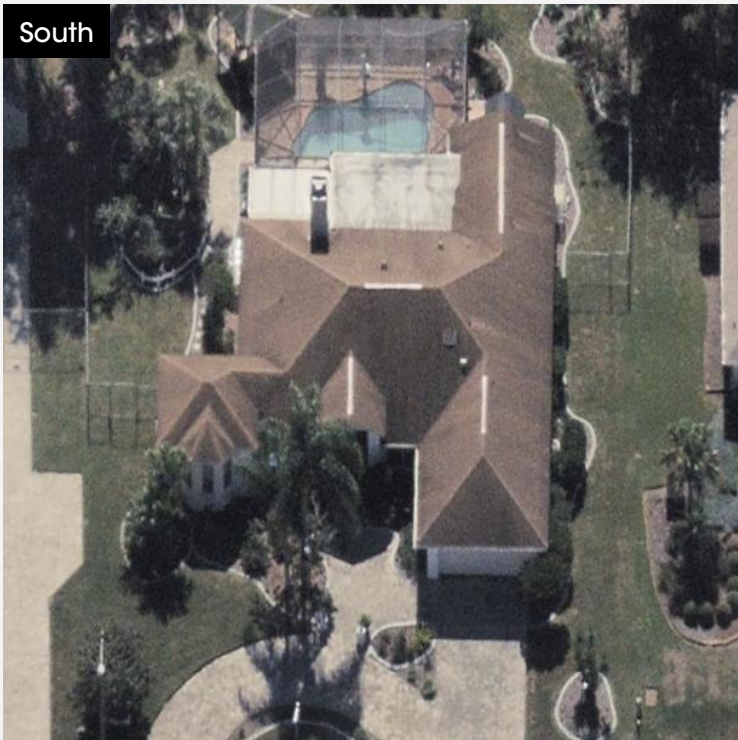
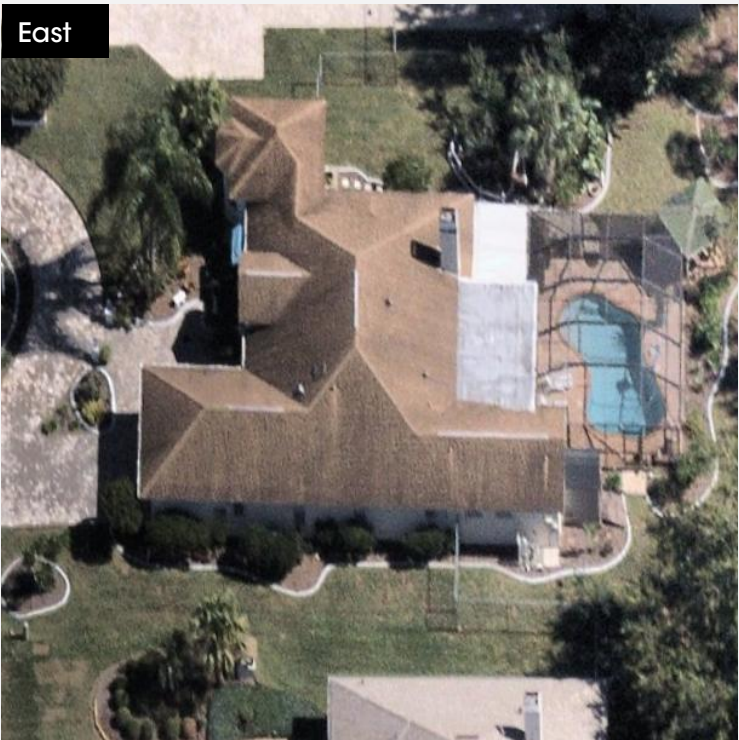
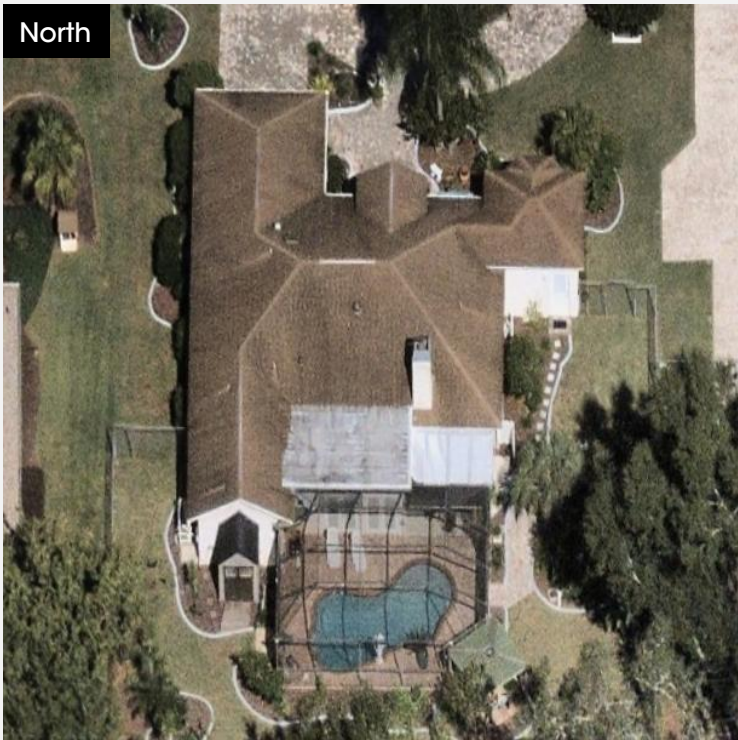
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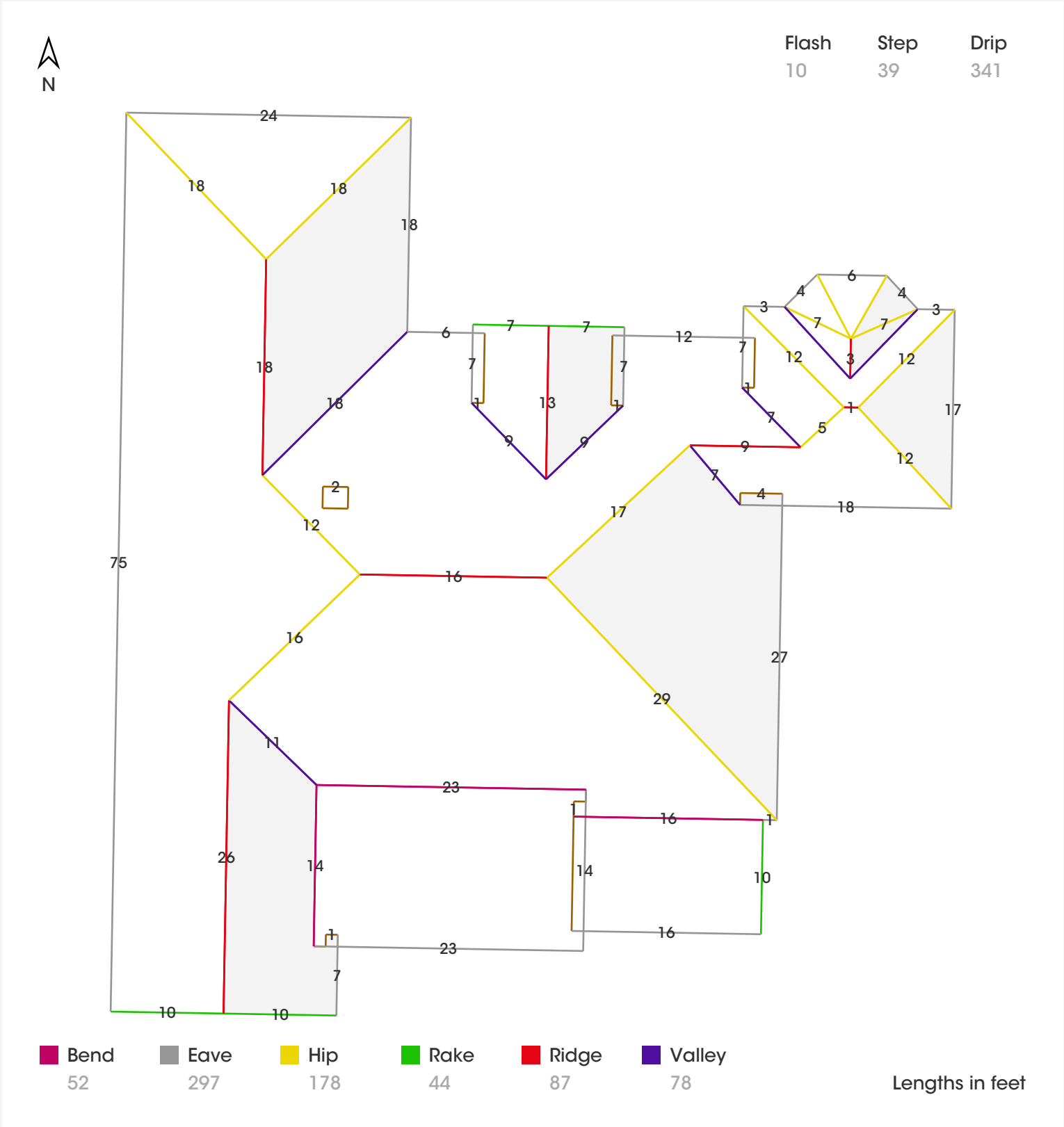
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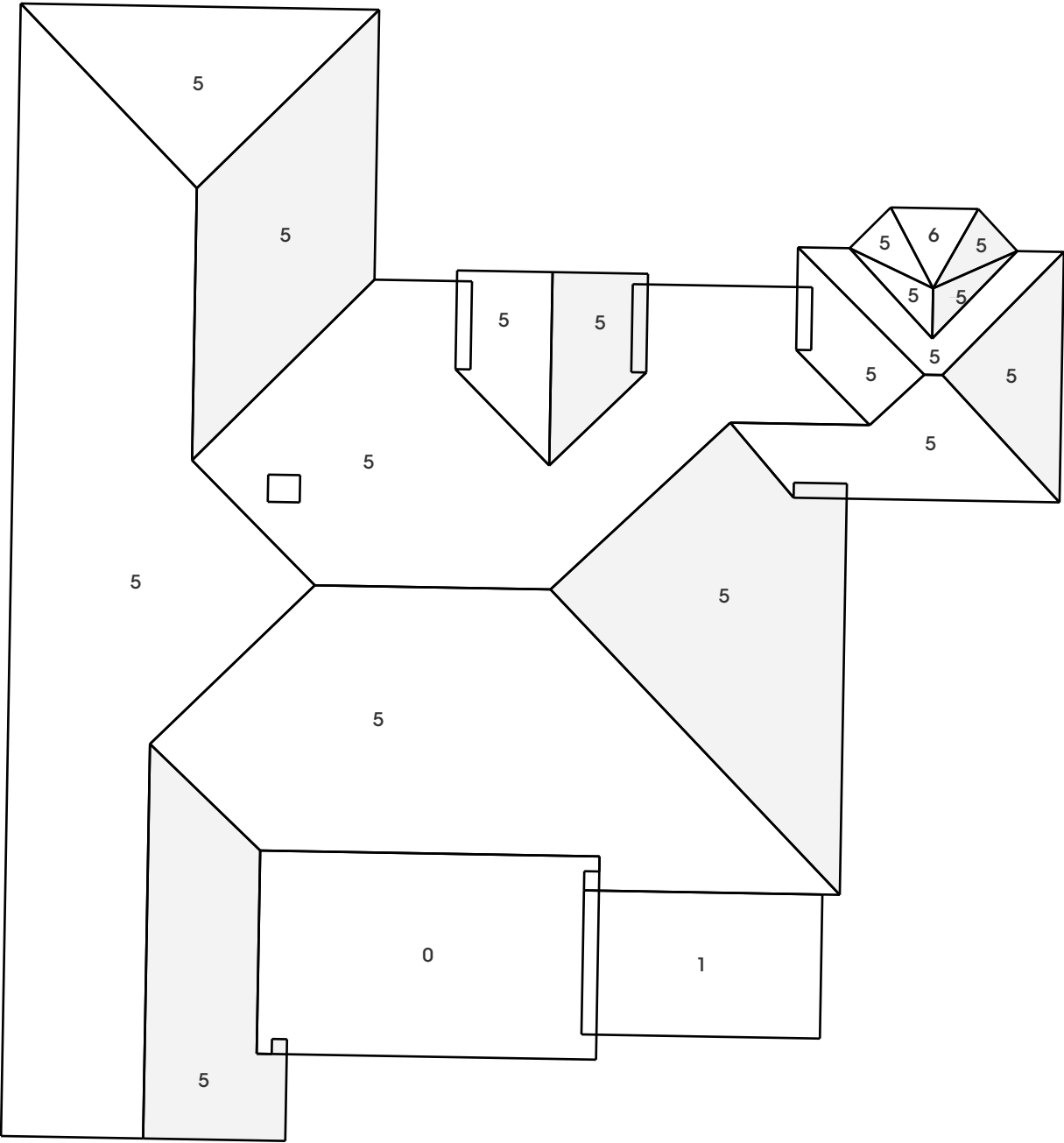
Measurements

Roof Area	3,957 sq ft
Roof Facets	20
Predominant Pitch	5 / 12
Ridges/Hips	265 ft
Valleys	78 ft
Rakes	44 ft
Eaves	297 ft
Bends	52 ft

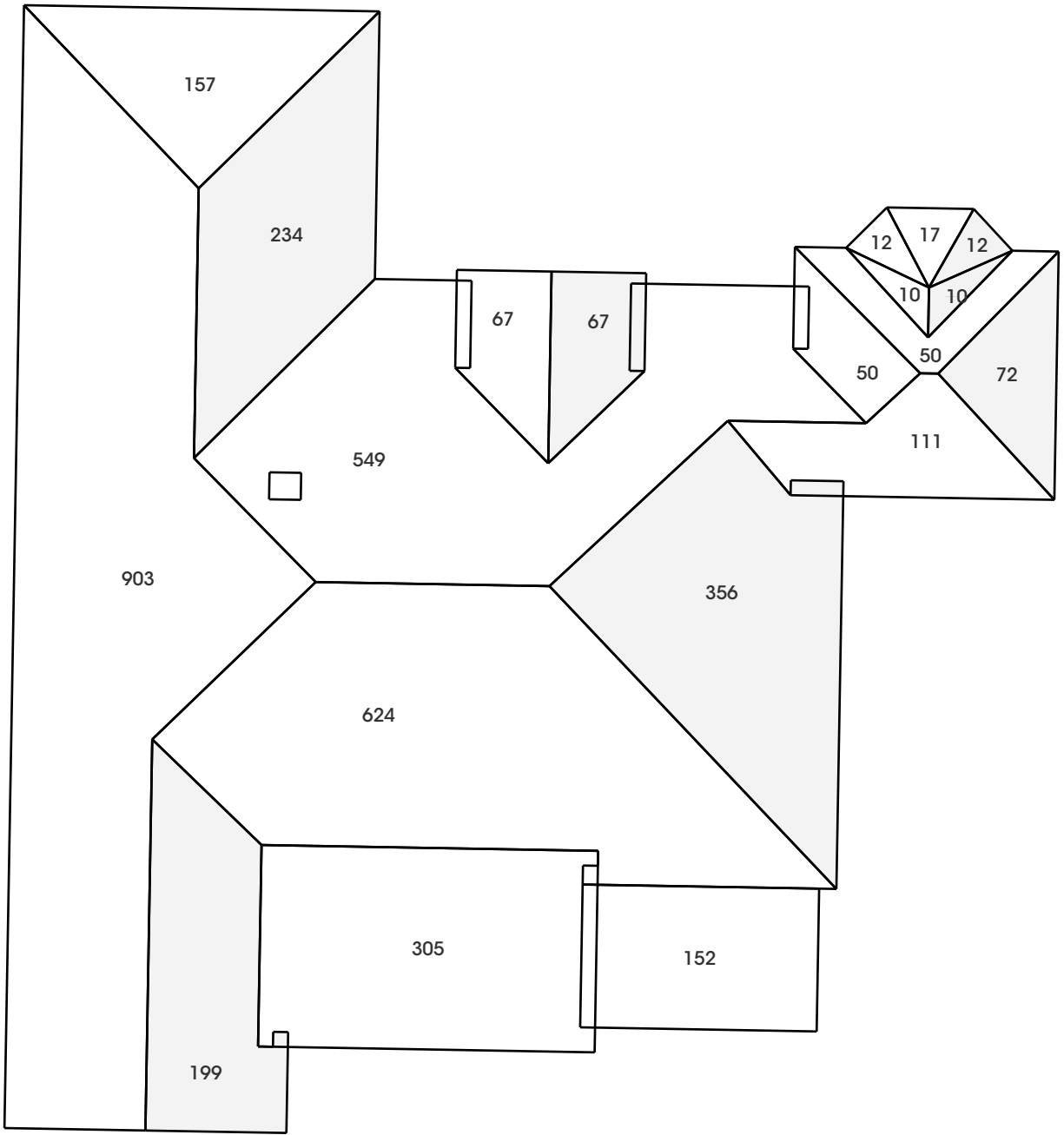








Pitches in inches per foot



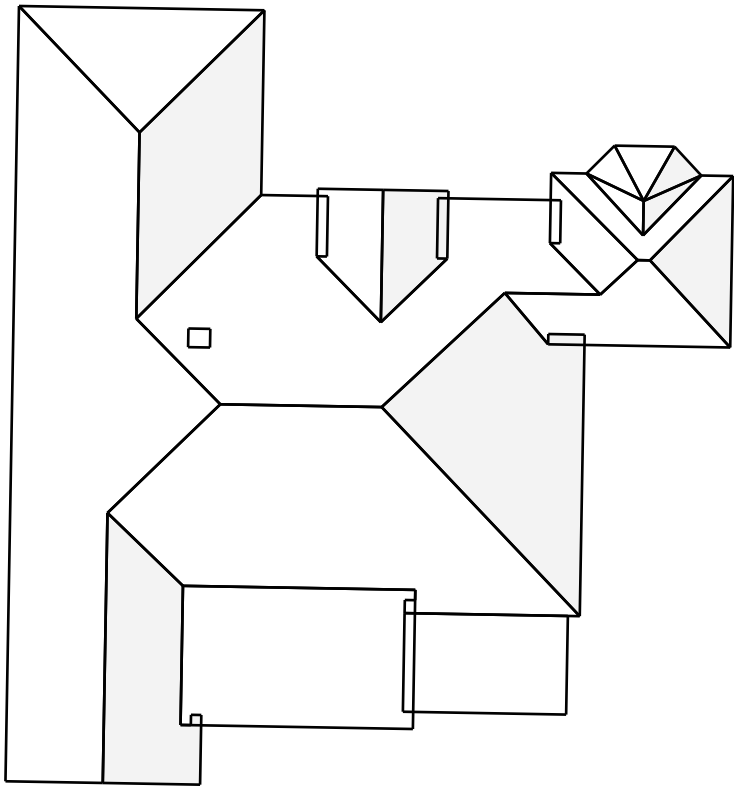
Areas in square feet



Pitch	0	1	5	6
Area	305	152	3,482	17
Percent	8%	4%	88%	0%

Suggested

Waste	0%	10%	13%	15%	17%	20%	25%
Area	3,957	4,352	4,471	4,550	4,629	4,748	4,946
Squares	40	44	45	46	47	48	50



Roof Area	3,957 sq ft
Roof Facets	20
Pitch	5 / 12

Bends	52 ft
Eaves	297 ft
Hips	178 ft
Rakes	44 ft
Ridges	87 ft
Valleys	78 ft

Flash	10 ft
Step	39 ft
Drip Edge	341 ft

Leak Barrier	78 ft
Ridge Cap	265 ft
Starter	245 ft

Penetrations	1
Pen. Area	4 sq ft
Pen. Perimeter	8 ft

Notes: 1) Measurements are rounded to the nearest whole number. 2) Rakes are defined as sloped roof edges. 3) Eaves are defined as level roof edges. 4) Flashing pertains to level roof edges and excludes valleys. 5) Step flashing pertains to sloped roof edges and excludes areas around penetrations. 6) Drip edge = eaves + rakes. 7) Waste table excludes additional materials needed for ridges, hips, valleys, etc. 8) Suggested waste factor is based on the roof complexity and is provided for guidance purposes only. You should confirm the appropriate waste factor prior to ordering.



	Waste	0%	10%	Suggested 15%	20%
Shingle Products					
Timberline: HDZ, UHDZ, NS, ASII, HDZ RS	bundle	107	118	123	129
Royal Sovereign					
Low-Slope Roofing System					
Liberty Base/Ply Sheet	roll	1	1	1	1
Liberty Cap Sheet	roll	2	2	2	2
Liberty Asphalt Primer	gallon	1	1	1	1
Liberty Flashing Cement	gallon	2	2	2	2
Starter					
WeatherBlocker	bundle	3	3	3	3
Pro-Start	bundle	3	3	3	3
Quick-Start	roll	8	9	9	9
Roof Deck Protection					
Deck-Armor, Tiger Paw, FeltBuster 10 sq	roll	4	4	5	5
Shingle-Mate	roll	9	10	11	11
VersaShield	roll	10	11	12	12
Leak Barrier					
StormGuard, WeatherWatch 2 sq	roll	2	2	2	2
WeatherWatch 1.5 sq	roll	2	2	2	2
Ridge Cap					
Seal-A-Ridge, Seal-A-Ridge AS	bundle	11	12	13	13
TimberTex	bundle	14	15	16	16
Z-Ridge	bundle	9	9	10	10
TimberCrest	box	14	15	16	16
Nails					
Cap Nails	box	2	3	3	3
Coil Nails 1.25 in	box	2	3	3	3
Step Flashing					
Step Flashing 10 ft	piece	4	5	5	5
Step Flashing 8 ft	piece	5	6	6	6
Drip Edge					
Drip Edge 10 ft	piece	35	38	40	41
Drip Edge 8 ft	piece	43	47	50	52

Notes: 1) These approximate quantities are based on estimated measurements and are for guidance purposes only. You should always confirm quantities prior to ordering and ensure you are following local building code requirements. 2) For Timberline, 3 bundles = 0.984 squares. 3) Starter = eaves. 4) Leak barrier = valleys. 5) Ridge cap = hips + ridges. 6) Low-slope products applied to 1/12 pitch areas. 7) Timberline products applied to 2/12 pitch areas and above. 8) Installed coverage will be less and depend on quantity and width of side and end laps. 9) Liberty low slope roofing system should be installed as a system. For more information, see gaf.com/liberty.



Static

	Quantity	Units
Cobra® Rigid Vent 3™, SnowCountry® & SnowCountry® Advanced	47	ft
Cobra® Exhaust Vent Roll - Nail Gunnable	60	ft
Cobra® Exhaust Vent Roll - Hand Nailable	50	ft
Cobra® RidgeRunner®	68	ft
Cobra® Hip Vent	94	ft
Master Flow® SSB960 Metal Super Slant-Back Roof Vents	14	vent
Master Flow® RV50/R50 Square-Top Roof Vents	17	vent
Master Flow® IR65 Plastic Slant-Back Roof Vents	13	vent
Master Flow® High-Capacity Dome Vents	6	vent
Master Flow® 10' Aluminum Ridge Vent	40	ft
Cobra IntakePro® Rooftop Intake Vent	94	ft
Master Flow® Undereave Intake Vents - 16" x 8"	17	vent

Powered - Roof Mount

	Exhaust (vent)	Cobra IntakePro (ft)	Master Flow 16x8 Intake (vent)
Master Flow® ERV4 Power Attic Vents	3	160	29
Master Flow® ERV5 Power & Wi-Fi Attic Vents	2	134	24
Master Flow® ERV6 Power Attic Vents	2	160	29
Master Flow EZ Cool™ Plug-in Power Attic Vents	2	112	21
Master Flow® GreenMachine™ Solar/Dual-Powered Vents	5	140	26
Master Flow® GreenMachine™ High-Power Solar/Dual-Powered Vents	4	160	29
Master Flow® 12" Wind Turbines	5	132	24
Master Flow® 14" Wind Turbines	4	150	27

Note: The estimated quantity of attic ventilation products in this report is based solely on the total exterior square footage of all roof planes and is meant for estimating purposes only. It is the responsibility of the installer to verify the correct quantity and type of attic ventilation products prior to commencement of work. Installer must always review job-specific attic ventilation needs such as local code requirements, attic floor square footage, roof design, and conditioned spaces under the roof. GAF recommends a minimum of 1 square foot of attic ventilation (evenly split between intake and exhaust) for every 300 square feet of attic floor space. The amount of exhaust ventilation at or near the ridge must never exceed the amount of intake ventilation at or near the soffit. See gaf.com/ventcalculator for details.



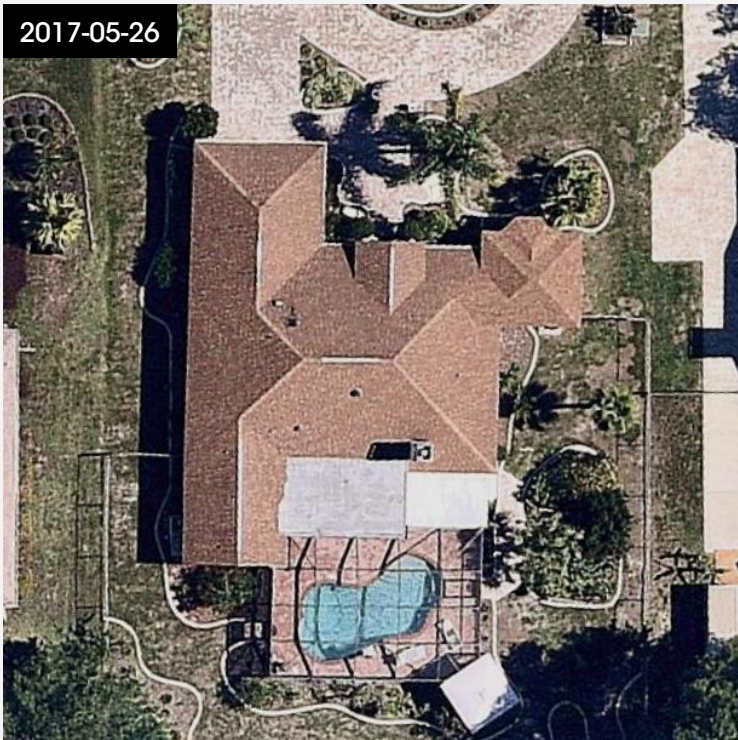
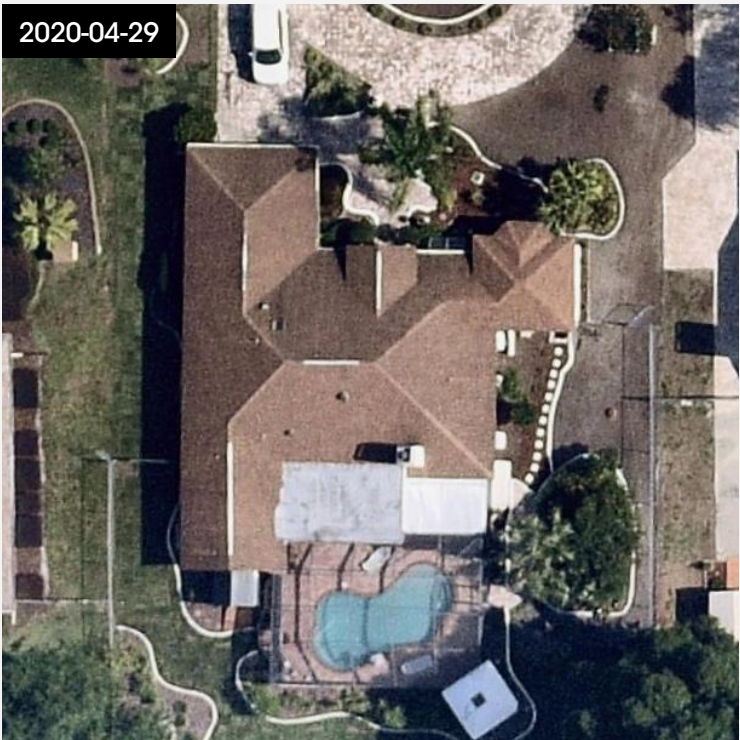
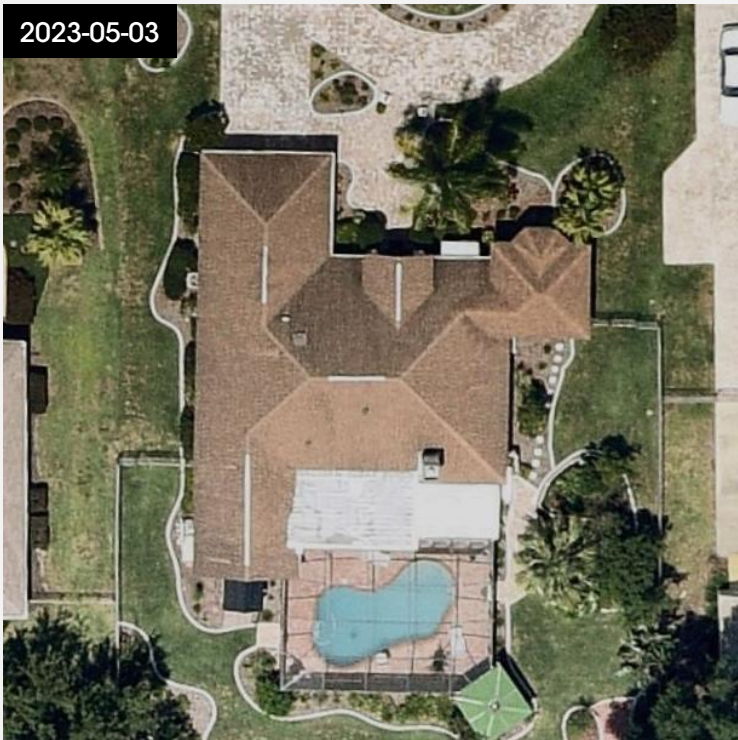
FORTIFIED Roof™ Materials

GAF and IBHS have formed an alliance to help make resilient roofing more accessible to homeowners across the country. Below are GAF products that can be used to comply with certain FORTIFIED Roof™ requirements. Use of GAF products listed below does not guarantee FORTIFIED Roof™ designation will be issued.

* Eligibility criteria, terms, and restrictions apply. For details see fortifiedspecs.org. U.S. only. For more information about the GAF and IBHS alliance visit gaf.com/fortified.

	Waste	0%	10%	Suggested 15%	20%
Shingle Products for High Wind and Hurricane Designation					
Timberline HDZ, UHDZ, NS, HDZ RS	bundle	107	118	123	129
Camelot II, Woodland	bundle	140	154	161	168
Grand Sequoia, Grand Sequoia AS/RS	bundle	175	193	202	210
Shingle Products for Hail Supplement					
Timberline HDZ, UHDZ, AS II	bundle	107	118	123	129
Grand Sequoia AS	bundle	175	193	202	210
Fully Adhered Starter					
Quick-Start	roll	8	9	9	9
Sealed Roof Deck					
<i>Option A: Seam tape and underlayment</i>					
Deck Seam Tape	roll	22	24	25	26
Deck-Armor, Tiger Paw, FeltBuster 10 sq	roll	4	4	5	5
<i>Option B: Two-ply underlayment</i>					
Deck-Armor, Tiger Paw, FeltBuster 10 sq	roll	7	8	9	9
Ridge Cap					
Seal-A-Ridge	bundle	11	12	13	13
TimberTex	bundle	14	15	16	16
Z-Ridge	bundle	9	9	10	10
Seal-A-Ridge AS	bundle	11	12	13	13
TimberCrest	box	14	15	16	16
Enhanced Roof Deck Attachment					
Framing Nails 2 3/8 8d ring shank 2k/box	box	3	3	4	4
Nails					
Cap Nails 1 in x .083 ring shank	box	2	3	3	3
Coil Nails 1.25 in	box	2	3	3	3
Drip Edge (minimum 26-gauge for steel)					
Drip Edge 10 ft	piece	35	38	40	41
Drip Edge 8 ft	piece	43	47	50	52

Notes: 1) These approximate quantities are based on estimated measurements and are for guidance purposes only. You should always confirm quantities prior to ordering and ensure you are following local building code requirements. 2) For Timberline, 3 bundles = 0.984 squares. 3) Starter = eaves. 4) Leak barrier = valleys. 5) Ridge cap = hips + ridges. 6) Timberline products applied to 2/12 pitch areas and above. 7) Installed coverage will be less and depend on quantity and width of side and end laps. 8) Seam tape calculation assumes 12LF for every 32SF of sheathing.




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