

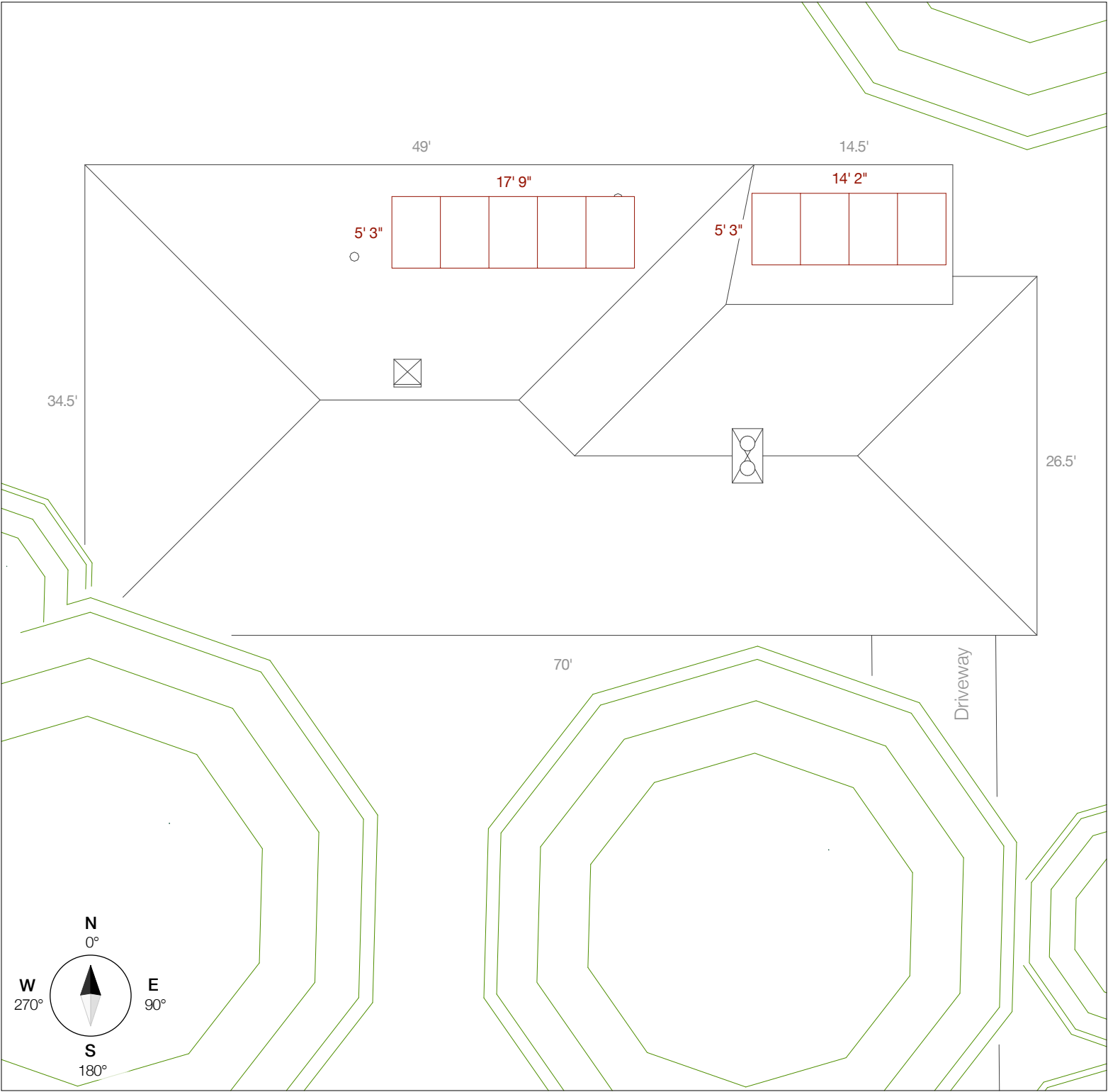
DANIEL H RESIDENCE

1909 Franwall Ave
Silver Spring, MD 20902

2.3 kW DC

Optimal Location

9 250W Solar PV Panels
Canadian Solar: CS5P-250M



Array	Modules	Azimuth	Tilt	Yield kWh/kW/yr
1	4	180° S	10°	1,026
2	5	180° S	10°	976

PLAN VIEW

PRELIMINARY PV DESIGN

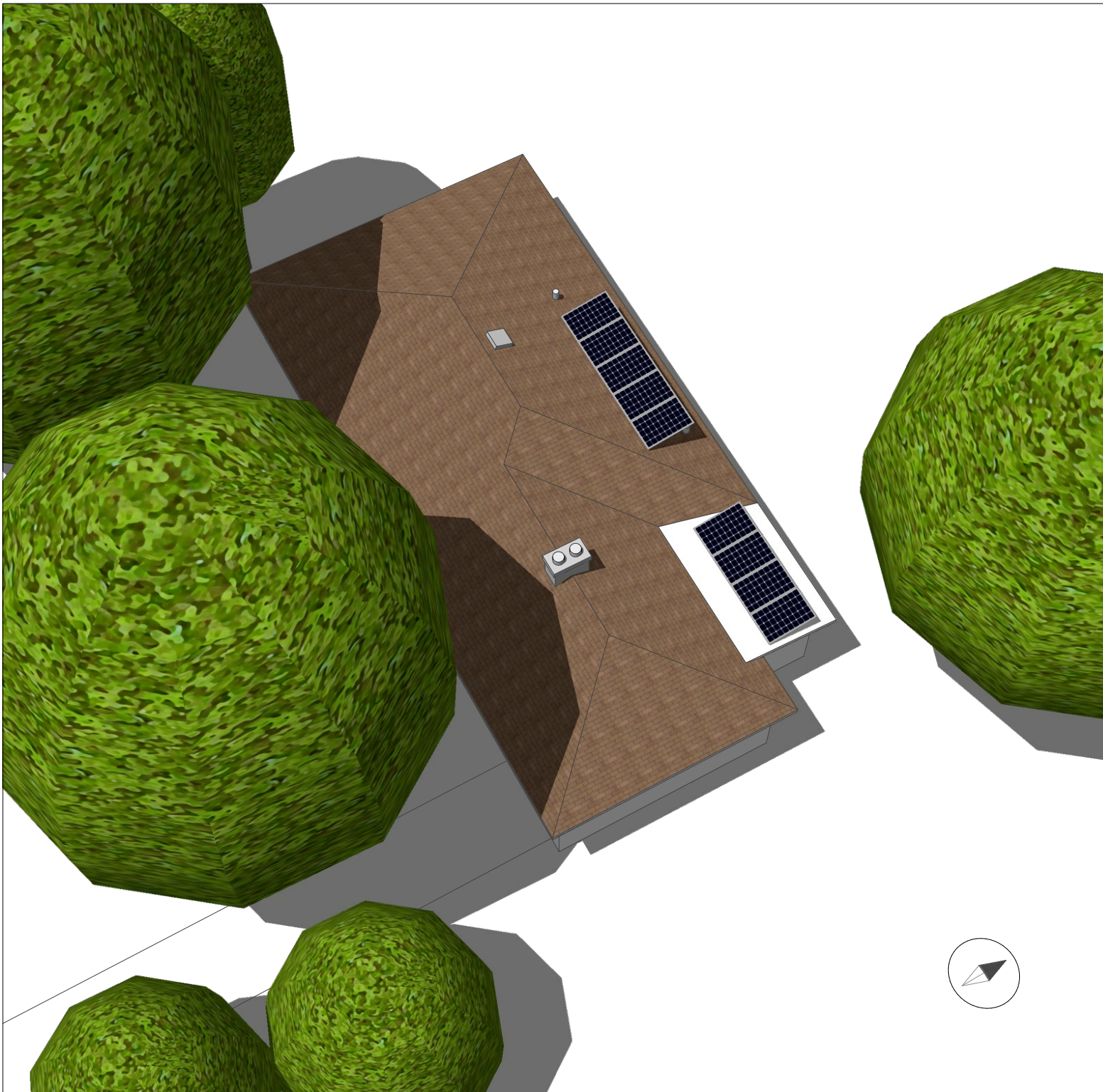
by BrightHarvestSolar.com

Drawn by TR, JL. Checked by MH.

Date: 5/16/2012

Sheet size: 8.5" x 11"

Scale: 1" = 10' (1:120)



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PERSPECTIVE VIEW

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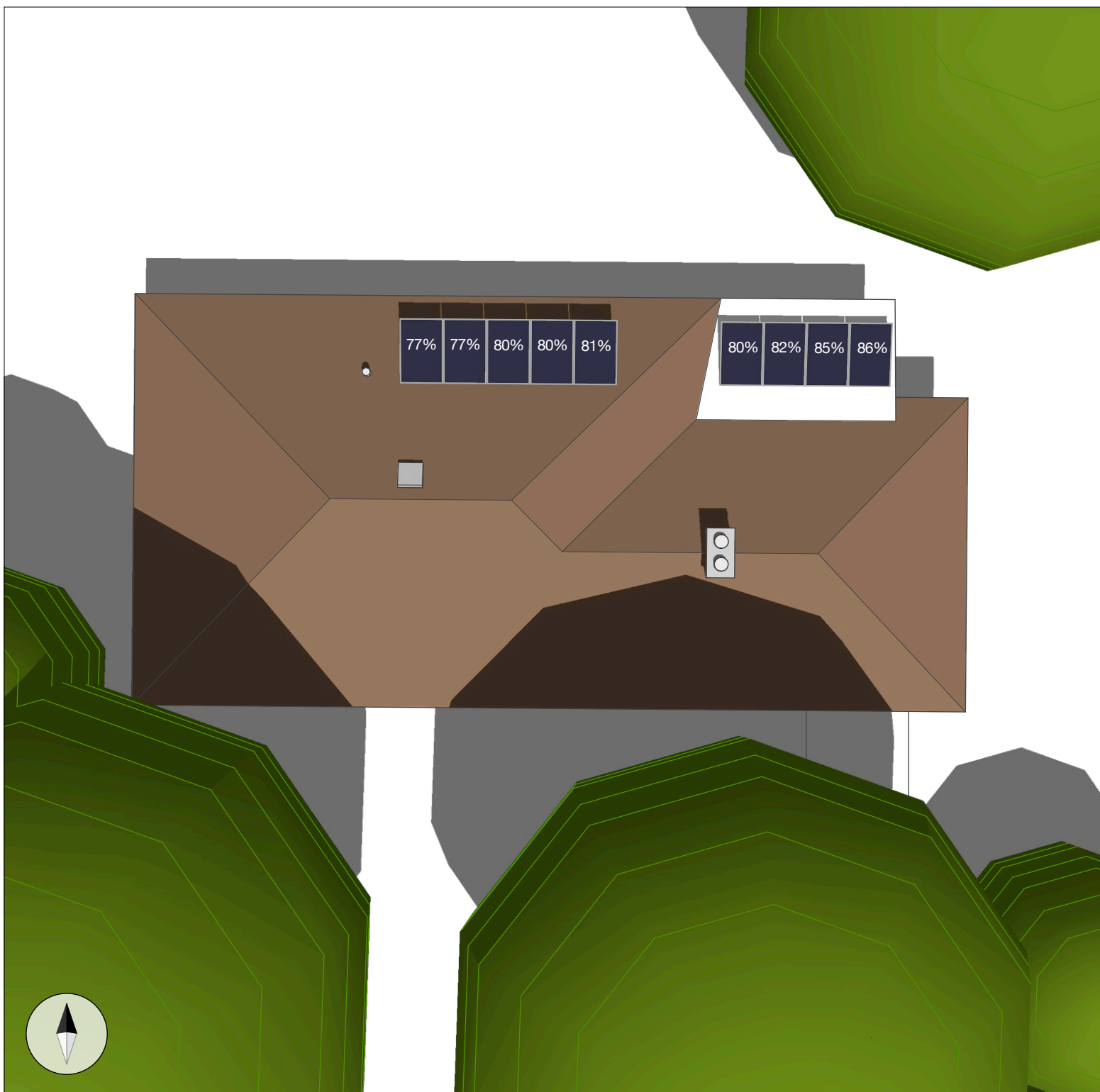
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3D SHADING ANALYSIS

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SHADING ANALYSIS

ARRAY	1	2	ALL
January	28	14	20%
February	36	26	30%
March	85	77	81%
April	99	99	99%
May	99	98	98%
June	99	98	98%
July	99	98	98%
August	99	99	99%
September	97	92	94%
October	42	31	36%
November	27	14	20%
December	22	11	16%
Summer	93	91	92%
Winter	64	57	60%
Annual	83	79	81%

PRODUCTION ESTIMATES

ARRAY	1	2	ALL
Yield (unshaded)	1,236	1,236	1,236 kWh/kW/yr
Shading derate	83	79	81% %
Yield (shaded)	1,026	976	998 kWh/kW/yr
Module count	4	5	9
System size	1	1.3	2.25 kW STC
Annual energy	1,026	1,221	2,246 kWh +/-10%
Monthly energy	85	102	187 kWh +/-10%

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SYSTEM PERFORMANCE

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