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Project No: 2583

10<sup>th</sup> June 2011

Dear Mr Djemal

**Re: Shade Analysis – Lambs Close, Cuffley**

Further to your request, I have now completed the arboricultural shade analysis for the above location. The tree data was collected during my site visit on 7<sup>th</sup> December 2010. The positions of the originally surveyed specimens (referenced as T001 and T002) are shown on drawing no. 2583.D.SAP.

In order to provide a fully informed assessment of the shading from T001 and T002, a calculation has been made using the proprietary Arbor-Shadow programme. This uses a complex formula that allows for tree form and density, and sun angle throughout the year – a considerably more refined technique than the crude methodology postulated in BS 5837:2005. The assessment has been made in accordance with *BS 8206-2:1992 Lighting for Buildings Code of Practice For Buildings* – specifically paragraph 5.3, where it is stated that “Interiors in which occupants have a reasonable expectation of direct sunlight should receive at least 25% of probable sunlight hours. At least 5% of probable sunlight hours should be received during the winter months, between 23 September and 21 March”.



At the Lambs Close site, eight carefully selected strategic locations on the ground floor of the proposed new dwellings were appraised. The results are fully documented in the attached data sheets, but in summary are as follows:-

POINT NO	% PROBABLE SUNLIGHT (SUMMER)	% PROBABLE SUNLIGHT (WINTER)	% PROBABLE SUNLIGHT (OVERALL)
<b>Ground Floor</b>			
1	46.32	100.00	73.16
2	43.92	100.00	71.96
3	31.43	89.14	60.29
4	29.68	89.09	59.38
5	29.64	89.08	59.36
6	30.21	89.09	59.65
7	30.78	89.11	59.94
8	31.42	89.12	60.27

I trust the enclosed is to your satisfaction. Should you have any queries or wish to discuss any of the above, please do not hesitate to contact me.

Yours sincerely



**David Carmichael**  
Arboricultural Consultant

