

Product Environmental Profile of luminaires for outdoor lighting - Linealuce mini 27R White&Tw family

Reference product: UF31



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Date of issue	09-2023	Validity period	5 years

Independent verification of the declaration and data, in compliance with ISO 14025: 2006

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The PCR review was conducted by a panel of experts chaired by Julie ORGELET (DDemain)

PEP are compliant with XP C08-100-1:2016 or EN 50693:2019

The elements of the present PEP cannot be compared with elements from another program.

Document in compliance with ISO 14025 : 2006 « Environmental labels and declarations. Type III environmental declarations»



General information

Company information:

iGuzzini illuminazione S.p.A via Mariano Guzzini, 37 62019, Recanati, Italy

Web Site available at: <https://www.iguzzini.com/it/>

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Reference product:

“Linealuce UF31”

The assessed product range covers outdoor lighting luminaires for the “Linealuce” family. The luminaires are used for professional lighting of outdoor environments.

The main technical features of the reference product UF31 are described in the table below.

Characteristics	Unit	Linealuce family
Product code	-	UF31
Light source	-	Integrated LED module
Power supply	-	19,1
Color temperature	K	4000
Protection index for water and dust (IP)	-	IP66
Impact resistance index (IK)	-	IK06
Nominal operating voltage	V	220-240
Assigned lifetime	Hours	100.000
Declaration lifetime of the LED module	Hours	100.000
Useful output flux	Lumen	1.519,25
Electrical power	W	19,1
Luminous efficiency	Lumen/W	79,5
Dimension	mm	1511x27x37

Functional unit:

“Provide lighting that delivers an outgoing artificial luminous flux of 1,000 lumens during a reference lifetime of 35,000 hours”.

The reference flow is calculated as:

(1,000/outgoing luminous flux of the analyzed product in lumens) x (35,000/declared product lifetime of the analyzed product in hours):

$$(1.000/1.519,25) \times (35.000/100.000) = 0,230$$

Homogeneous environmental family:

The reference product represents the Linealuce luminaires family, which differs in terms of power, useful output flux (lumen) and size.

The range of variations for the products in the same family is the following:

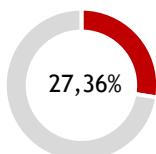
Linealuce Family	Unit	Value for the reference product	Minimum value in product range	Maximum value in product range
Power	W	19,1	3,9	20,4
Useful output flux	Lumen	1.519,25	117,6	2065
Size	kg	3,267	1,893	3,267

The present PEP declaration is valid for all the products in the described homogenous environmental family. The spreadsheet provided as annex shall be used by the PEP user to extrapolate the impact of the other products for the Linealuce family, based on the technical parameters of the considered product, as requested by the PSR.



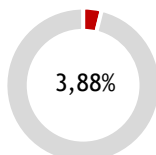
Constituent materials

METALS



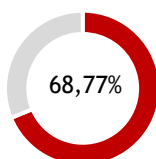
	kg	%
Aluminum	0,917	24,51
Zamak	0,086	2,30
Steel	0,021	0,55

PLASTICS



	kg	%
Polymethyl methacrylate (PMMA)	0,090	63,84
Polycarbonate (PC)	0,040	28,51
Silicon	0,007	5,12
Nylon (PA66)	0,002	1,42
Polyethylene (PL)	0,001	0,57
Polyurethane (PU)	0,001	0,54

OTHER MATERIALS



	kg	%
Electronical components	1,580	42,22
Glass	0,390	10,42
Chemicals	0,063	1,70
Paper	0,066	1,75
Cardboard - Packaging	0,230	6,16
Plastic (PE) - Packaging	0,047	1,27
Wood - Packaging	0,196	5,25

Total reference product	3,267	87,32
Total packaging	0,474	12,68
TOTAL	3,741	100%

The list above includes also materials with a certain amount of recycled content, in order to reduce the impacts linked to the production of virgin materials. In particular:

- The paperboard box of packaging is made of 100% of recycled content;
- The “housing” of UF31 is made of 75% of recycled aluminum;
- The pallet used for shipment is reused.



Manufacture

The product components are manufactured or assembled by iGuzzini S.p.A. in Recanati (Italy) manufacturing site. iGuzzini applies an environmental management system, certified according to ISO 14001:2015 and an energy management system certified according to ISO 50001:2018 (the certificates are available at: <https://www.iguzzini.com/it/certificazioni/>).

In 2023 iGuzzini gained the gold medal in the EcoVadis platform.

In 2022, iGuzzini disclosed its sustainability performances within the Fagerhult Group Sustainability Report. In the same year iGuzzini plant of Recanati passed to 100% green energy procurement verified and certified by GO (origin guarantee certificates).

All lighting products manufactured by iGuzzini comply to the European directive “2011/65/EU ROHS 2 - Restriction of dangerous substances in electrical and electronic equipment”.



Distribution

There is no hub for the distribution. Products leaving the production site in Recanati (MC), Italy, are delivered directly to the final clients. The distribution of the final destinations is the following:

Destination	Share (%)	Type transport considered
Emirates	15%	Intracontinental
China	13%	Intracontinental
Italy	12%	Local
Swiss	10%	Intercontinental
Poland	8%	Intercontinental
Finland	7%	Intercontinental
Spain	4%	Intercontinental
Norway	4%	Intercontinental
Malaysia	3%	Intracontinental
France	3%	Intercontinental
New York	3%	Intracontinental
Germain	3%	Intercontinental
Brazil	3%	Intracontinental
New Zeland	3%	Intracontinental
India	2%	Intracontinental
England	2%	Intercontinental
Belgium	2%	Intercontinental
Other (Europe)	2%	Intercontinental
Other (extra EU)	1%	Intracontinental



Installation

The luminaires are provided to the client with the power supply, the fixing elements and the assembly elements, fittings and other electrical connectors needed for installation. Therefore, the installation of the luminaire does not require additional components and the product is easily installed using manual tools. In this phase the end of life (EoL) of the packaging of the final product is considered as well.



Use

Energy efficient light sources (LED lighting) are integrated. The use phase consists of electricity use during the whole lifetime of the product. The assigned lifetime of the luminaire is 100.000 hours.



End of life

The company is affiliated with a WEEE (Waste Electrical and Electronic Equipment) Italian consortium (Ecolight, <https://ecolight.it/>). The product at its end of life is managed as prescribed by the current legislation about EEE waste (Directive 2012/19/EU) and the waste treatment scenarios of the Countries in which the product is distributed. According to the most recent data available, waste treatment scenarios are the following:

Scenario	Recycling	Energy recovery	Incineration	Landfill
Emirates	6%	-	-	94%
China	20%	-	-	80%
Italy	95%	2%	0%	3%
Swiss	34%	-	-	66%
Poland	23%	-	-	77%
Finland	59%	-	-	41%
Spain	34%	-	-	66%
Norway	59%	-	-	41%
Malaysia	0%	-	-	100%
France	77%	8,50%	6%	8,50%
New York	15%	-	-	85%
German	54%	-	-	46%
Brazil	1%	-	-	99%
New Zealand	9%	-	-	91%
India	1%	-	-	99%
England	59%	-	-	41%
Belgium	54%	-	-	46%
Other (Europe)	43%	-	-	58%
Other (extra EU)	10%	-	-	90%

The end of life scenarios are made with the following assumptions:

- In Italian scenario the transport to the end of life is assumed to be 150 km and the treatment of waste is based on Ecolight statistics;
- In French scenario the transport to the end of life is assumed to be 1000 km and the treatment of waste is based on PSR statistics;
- In other European scenarios the transport to the end of life is assumed to be 1000 km and the treatment of waste is based on Global E-Waste Monitor report;
- For the not-Europeans scenarios the transport to end of life is assumed to be 1000 km and the treatment of waste is based on global statistics.



Environmental impacts

The evaluation of environmental impacts examines the manufacturing, distribution, installation, use and end-of-life stages of the Reference Product life cycle.

The environmental impacts assessment of the reference product has been performed using SimaPro 9.4.0.2 software. Background datasets have been retrieved from Ecoinvent 3.8 libraries. The impact indicators and impact models used are the ones indicated by the PCR-ed4-EN-2021 09 06. This environmental declaration has been developed considering an outgoing artificial luminous flux of 1,000 lumens over a reference lifetime of 35,000 hours (Functional Unit).

Results of mandatory indicators per F.U. (for 1.000 lumens during 35.000 hours) of UF31 luminaire:

Impact category	Unit	Total	Manufacturing	Distribution	Installation	Use	EoL
Climate change	kg CO ₂ eq	2,44E+02	4,92E+00	2,80E+00	5,24E-02	2,36E+02	4,51E-01
Ozone depletion	kg CFC-11 eq	1,02E-05	8,11E-07	6,38E-07	1,44E-09	8,71E-06	1,62E-08
Photochemical ozone formation	kg NMVOC eq	5,76E-01	1,93E-02	1,49E-02	3,96E-05	5,42E-01	4,96E-04
Acidification	mol H ⁺ eq	1,18E+00	6,38E-02	1,44E-02	2,93E-05	1,10E+00	3,86E-04
Eutrophication, freshwater	kg P eq	1,09E-01	3,23E-03	4,28E-05	4,85E-07	1,06E-01	1,00E-05
Eutrophication, marine	kg N eq	2,12E-01	5,61E-03	5,24E-03	5,23E-05	2,00E-01	8,62E-04
Eutrophication, terrestrial	mol N eq	2,13E+00	6,23E-02	5,73E-02	9,15E-05	2,01E+00	1,38E-03
Water use	m ³ depriv.	4,69E+01	2,50E+00	3,11E-02	5,48E-04	4,43E+01	7,17E-03
Abiotic resource depletion, fossils	MJ	3,52E+03	5,83E+01	3,94E+01	9,70E-02	3,42E+03	1,11E+00
Abiotic resource depletion, minerals and metals	kg Sb eq	2,78E-03	1,27E-03	1,17E-06	1,48E-08	1,51E-03	1,72E-07
Climate change - Fossil	kg CO ₂ eq	2,38E+02	4,87E+00	2,80E+00	6,64E-03	2,31E+02	8,81E-02
Climate change - Biogenic	kg CO ₂ eq	5,08E+00	3,43E-02	9,14E-04	4,29E-02	4,66E+00	3,40E-01
Climate change - Land use and LU change	kg CO ₂ eq	4,72E-01	5,10E-03	2,09E-04	2,60E-06	4,67E-01	2,97E-05

Results of mandatory indicators per unit of product (declared unit, 1.519,25 lumens during 100.000 hours) of UF31 luminaire:

Impact category	Unit	Total	Manufacturing	Distribution	Installation	Use	EoL
Climate change	kg CO ₂ eq	1,06E+03	2,13E+01	1,22E+01	2,28E-01	1,02E+03	1,96E+00
Ozone depletion	kg CFC-11 eq	4,42E-05	3,52E-06	2,77E-06	6,23E-09	3,78E-05	7,01E-08
Photochemical ozone formation	kg NMVOC eq	2,50E+00	8,39E-02	6,48E-02	1,72E-04	2,35E+00	2,15E-03
Acidification	mol H ⁺ eq	5,12E+00	2,77E-01	6,26E-02	1,27E-04	4,78E+00	1,68E-03
Eutrophication, freshwater	kg P eq	4,73E-01	1,40E-02	1,86E-04	2,10E-06	4,59E-01	4,35E-05
Eutrophication, marine	kg N eq	9,19E-01	2,43E-02	2,27E-02	2,27E-04	8,68E-01	3,74E-03
Eutrophication, terrestrial	mol N eq	9,26E+00	2,70E-01	2,49E-01	3,97E-04	8,73E+00	6,01E-03
Water use	m ³ depriv.	2,03E+02	1,08E+01	1,35E-01	2,38E-03	1,92E+02	3,11E-02
Abiotic resource depletion, fossils	MJ	1,53E+04	2,53E+02	1,71E+02	4,21E-01	1,49E+04	4,81E+00
Abiotic resource depletion, minerals and metals	kg Sb eq	1,21E-02	5,52E-03	5,07E-06	6,43E-08	6,55E-03	7,47E-07
Climate change - Fossil	kg CO ₂ eq	1,03E+03	2,11E+01	1,22E+01	2,88E-02	1,00E+03	3,82E-01
Climate change - Biogenic	kg CO ₂ eq	2,20E+01	1,49E-01	3,97E-03	1,86E-01	2,02E+01	1,48E+00
Climate change - Land use and LU change	kg CO ₂ eq	2,05E+00	2,21E-02	9,09E-04	1,13E-05	2,03E+00	1,29E-04

Results of mandatory indicators per unit of product (UF31 luminaire) - Detail of the use phase with the decomposition of module B (B1-B7) according to EN 15978 and EN 15804:

Impact category	Unit	Total	B1	B2	B3	B4	B5	B6	B7
Climate change	kg CO ₂ eq	1,02E+03	-	-	-	-	-	1,02E+03	-
Ozone depletion	kg CFC-11 eq	3,78E-05	-	-	-	-	-	3,78E-05	-
Photochemical ozone formation	kg NMVOC eq	2,35E+00	-	-	-	-	-	2,35E+00	-
Acidification	mol H ⁺ eq	4,78E+00	-	-	-	-	-	4,78E+00	-
Eutrophication, freshwater	kg P eq	4,59E-01	-	-	-	-	-	4,59E-01	-
Eutrophication, marine	kg N eq	8,68E-01	-	-	-	-	-	8,68E-01	-
Eutrophication, terrestrial	mol N eq	8,73E+00	-	-	-	-	-	8,73E+00	-
Water use	m ³ depriv.	1,92E+02	-	-	-	-	-	1,92E+02	-
Abiotic resource depletion, fossils	MJ	1,49E+04	-	-	-	-	-	1,49E+04	-
Abiotic resource depletion, minerals and metals	kg Sb eq	6,55E-03	-	-	-	-	-	6,55E-03	-
Climate change - Fossil	kg CO ₂ eq	1,00E+03	-	-	-	-	-	1,00E+03	-
Climate change - Biogenic	kg CO ₂ eq	2,02E+01	-	-	-	-	-	2,02E+01	-
Climate change - Land use and LU change	kg CO ₂ eq	2,03E+00	-	-	-	-	-	2,03E+00	-

Within the determination of the impacts of the manufacturing, installation, use and end of life the choice of the dataset relating to electricity consumption fell on low voltage energy (230 V) for all the geographical areas considered in the study. Furthermore, energy mixes were used for each country.

Results of mandatory inventory flow indicators per F.U. (1.000 lumens during 35.000 hours) and declared unit (1.519,25 lumens during 100.000 hours) of UF31 luminaire:

Indicators	Unit	F.U.	D.U.
Renewable primary energy (without raw material)	MJ	7,24E+02	3,14E+03
Renewable primary energy (raw material)	MJ	4,15E+00	1,80E+01
Total use of renewable primary energy	MJ	7,28E+02	3,16E+03
Nonrenewable primary energy (without raw material)	MJ	3,66E+03	1,59E+04
Nonrenewable primary energy (raw material)	MJ	4,45E+01	1,93E+02
Total use of non-renewable primary energy	MJ	3,70E+03	1,61E+04
Use of secondary materials	kg	2,25E-01	9,78E-01
Use of renewable secondary fuels	MJ	-	-
Use of non-renewable secondary fuels	MJ	1,27E+01	5,52E+01
Net use of fresh water	m ³	1,66E-03	7,20E-03
Hazardous waste disposed	kg	6,54E-03	2,84E-02
Non-hazardous waste disposed	kg	2,16E-01	9,38E-01
Radioactive waste disposed	kg	-	-
Components for reuse	kg	4,52E-02	1,96E-01
Materials for recycling	kg	*	*
Materials for energy recovery	kg	*	*
Exported energy	MJ	-	-
Biogenic carbon content of the product	kg	1,51E-02	6,56E-02
Biogenic carbon content of the associated packaging	kg	9,83E-02	4,27E-01

*The use of the symbol * indicates that the value depends on the country where the WEEE is disposed*



Extrapolation rules

Extrapolations rules have been calculated following PCR-ed4-EN-2021 09 06 and PSR-0014-ed1.0-EN-2018 07 18. The defined rules shall be applied using the Extrapolation rules file provided in the following tables.

Parameter	Value for reference product
Lighting output [lumens]	1519,3
Weight of light source [kg]	0,0016
Weight of luminaire structure and his packaging [kg]	2,510
Weight of power equipment [kg]	1,23
Weight of light management system [kg]	-
Weight of product including its light source (no packaging) [kg]	3,2671
Weight of product including its packaging [kg]	3,7411
Power [W]	19,1

The extrapolation coefficients calculation at the functional unit level shall be taken into account with the following formula:

$$\text{Estrapolatuion coefficient at the product level} \times \frac{\text{Lighting output of reference product (lumen)}}{\text{Lighting output of concerned product (lumens)}}$$

Extrapolation coefficients

The reported extrapolation coefficients are intended at product level (declared unit) and not at functional unit.

Product Code	Manufacturing	Distribution	Installation	Use	EoL
UE19	0,73	0,58	0,56	0,20	0,58
UE20	0,73	0,58	0,56	0,20	0,58
UE21	0,73	0,58	0,56	0,20	0,58
UE22	0,73	0,58	0,56	0,20	0,58
UE23	0,73	0,58	0,56	0,20	0,58
UE24	0,73	0,58	0,56	0,20	0,58
UE25	0,73	0,58	0,56	0,20	0,58
UE26	0,73	0,58	0,56	0,20	0,58
UE27	0,73	0,58	0,56	0,20	0,58
UE28	0,73	0,58	0,56	0,20	0,58
UE29	0,73	0,58	0,56	0,20	0,58
UE30	0,73	0,58	0,56	0,20	0,58
UE31	0,73	0,58	0,56	0,20	0,58
UE32	0,73	0,58	0,56	0,20	0,58
UE33	0,73	0,58	0,56	0,20	0,58
UE34	0,73	0,58	0,56	0,20	0,58
UE35	0,73	0,58	0,56	0,20	0,58
UE36	0,73	0,58	0,56	0,20	0,58
UE37	0,73	0,58	0,56	0,20	0,58
UE38	0,73	0,58	0,56	0,20	0,58
UE39	0,73	0,58	0,56	0,20	0,58
UE40	0,73	0,58	0,56	0,20	0,58
UE41	0,73	0,58	0,56	0,20	0,58
UE42	0,73	0,58	0,56	0,20	0,58
UE43	0,73	0,58	0,56	0,20	0,58
UE44	0,73	0,58	0,56	0,20	0,58
UE45	0,73	0,58	0,56	0,20	0,58
UE46	0,73	0,58	0,56	0,20	0,58
UE47	0,75	0,68	0,65	0,40	0,68
UE48	0,75	0,68	0,65	0,40	0,68
UE49	0,75	0,68	0,65	0,40	0,68
UE50	0,75	0,68	0,65	0,40	0,68
UE51	0,75	0,68	0,65	0,40	0,68
UE52	0,75	0,68	0,65	0,40	0,68
UE53	0,75	0,68	0,65	0,40	0,68
UE54	0,75	0,68	0,65	0,40	0,68
UE55	0,75	0,68	0,65	0,40	0,68
UE56	0,75	0,68	0,65	0,40	0,68
UE57	0,75	0,68	0,65	0,40	0,68
UE58	0,75	0,68	0,65	0,40	0,68
UE59	0,75	0,68	0,65	0,40	0,68
UE60	0,75	0,68	0,65	0,40	0,68

UE61	0,75	0,68	0,65	0,40	0,68
UE62	0,75	0,68	0,65	0,40	0,68
UE63	0,75	0,68	0,65	0,40	0,68
UE64	0,75	0,68	0,65	0,40	0,68
UE65	0,75	0,68	0,65	0,40	0,68
UE66	0,75	0,68	0,65	0,40	0,68
UE67	0,75	0,68	0,65	0,40	0,68
UE68	0,75	0,68	0,65	0,40	0,68
UE69	0,75	0,68	0,65	0,40	0,68
UE70	0,75	0,68	0,65	0,40	0,68
UE71	0,75	0,68	0,65	0,40	0,68
UE72	0,75	0,68	0,65	0,40	0,68
UE73	0,75	0,68	0,65	0,40	0,68
UE74	0,75	0,68	0,65	0,40	0,68
UE75	0,81	0,78	0,69	0,60	0,79
UE76	0,81	0,78	0,69	0,60	0,79
UE77	0,81	0,78	0,69	0,60	0,79
UE78	0,81	0,78	0,69	0,60	0,79
UE79	0,81	0,78	0,69	0,60	0,79
UE80	0,81	0,78	0,69	0,60	0,79
UE81	0,81	0,78	0,69	0,60	0,79
UE82	0,81	0,78	0,69	0,60	0,79
UE83	0,81	0,78	0,69	0,60	0,79
UE84	0,81	0,78	0,69	0,60	0,79
UE85	0,81	0,78	0,69	0,60	0,79
UE86	0,81	0,78	0,69	0,60	0,79
UE87	0,81	0,78	0,69	0,60	0,79
UE88	0,81	0,78	0,69	0,60	0,79
UE89	0,81	0,78	0,69	0,60	0,79
UE90	0,81	0,78	0,69	0,60	0,79
UE91	0,81	0,78	0,69	0,60	0,79
UE92	0,81	0,78	0,69	0,60	0,79
UE93	0,81	0,78	0,69	0,60	0,79
UE94	0,81	0,78	0,69	0,60	0,79
UE95	0,81	0,78	0,69	0,60	0,79
UE96	0,81	0,78	0,69	0,60	0,79
UE97	0,81	0,78	0,69	0,60	0,79
UE98	0,81	0,78	0,69	0,60	0,79
UE99	0,81	0,78	0,69	0,60	0,79
UF00	0,81	0,78	0,69	0,60	0,79
UF01	0,81	0,78	0,69	0,60	0,79
UF02	0,81	0,78	0,69	0,60	0,79
UF03	0,87	0,86	0,76	0,80	0,87
UF04	0,87	0,86	0,76	0,80	0,87
UF05	0,87	0,86	0,76	0,80	0,87
UF06	0,87	0,86	0,76	0,80	0,87
UF07	0,87	0,86	0,76	0,80	0,87
UF08	0,87	0,86	0,76	0,80	0,87
UF09	0,87	0,86	0,76	0,80	0,87

UF10	0,87	0,86	0,76	0,80	0,87
UF11	0,87	0,86	0,76	0,80	0,87
UF12	0,87	0,86	0,76	0,80	0,87
UF13	0,87	0,86	0,76	0,80	0,87
UF14	0,87	0,86	0,76	0,80	0,87
UF15	0,87	0,86	0,76	0,80	0,87
UF16	0,87	0,86	0,76	0,80	0,87
UF17	0,87	0,86	0,76	0,80	0,87
UF18	0,87	0,86	0,76	0,80	0,87
UF19	0,87	0,86	0,76	0,80	0,87
UF20	0,87	0,86	0,76	0,80	0,87
UF21	0,87	0,86	0,76	0,80	0,87
UF22	0,87	0,86	0,76	0,80	0,87
UF23	0,87	0,86	0,76	0,80	0,87
UF24	0,87	0,86	0,76	0,80	0,87
UF25	0,87	0,86	0,76	0,80	0,87
UF26	0,87	0,86	0,76	0,80	0,87
UF27	0,87	0,86	0,76	0,80	0,87
UF28	0,87	0,86	0,76	0,80	0,87
UF29	0,87	0,86	0,76	0,80	0,87
UF30	0,87	0,86	0,76	0,80	0,87
UF31	1,00	1,00	1,00	1,00	1,00
UF32	1,00	1,00	1,00	1,00	1,00
UF33	1,00	1,00	1,00	1,00	1,00
UF34	1,00	1,00	1,00	1,00	1,00
UF35	1,00	1,00	1,00	1,00	1,00
UF36	1,00	1,00	1,00	1,00	1,00
UF37	1,00	1,00	1,00	1,00	1,00
UF38	1,00	1,00	1,00	1,00	1,00
UF39	1,00	1,00	1,00	1,00	1,00
UF40	1,00	1,00	1,00	1,00	1,00
UF41	1,00	1,00	1,00	1,00	1,00
UF42	1,00	1,00	1,00	1,00	1,00
UF43	1,00	1,00	1,00	1,00	1,00
UF44	1,00	1,00	1,00	1,00	1,00
UF45	1,00	1,00	1,00	1,00	1,00
UF46	1,00	1,00	1,00	1,00	1,00
UF47	1,00	1,00	1,00	1,00	1,00
UF48	1,00	1,00	1,00	1,00	1,00
UF49	1,00	1,00	1,00	1,00	1,00
UF50	1,00	1,00	1,00	1,00	1,00
UF51	1,00	1,00	1,00	1,00	1,00
UF52	1,00	1,00	1,00	1,00	1,00
UF53	1,00	1,00	1,00	1,00	1,00
UF54	1,00	1,00	1,00	1,00	1,00
UF55	1,00	1,00	1,00	1,00	1,00
UF56	1,00	1,00	1,00	1,00	1,00
UF57	1,00	1,00	1,00	1,00	1,00
UF58	1,00	1,00	1,00	1,00	1,00

UF59	0,73	0,58	0,56	0,20	0,58
UF60	0,73	0,58	0,56	0,20	0,58
UF61	0,73	0,58	0,56	0,20	0,58
UF62	0,73	0,58	0,56	0,20	0,58
UF63	0,73	0,58	0,56	0,20	0,58
UF64	0,73	0,58	0,56	0,20	0,58
UF65	0,73	0,58	0,56	0,20	0,58
UF66	0,73	0,58	0,56	0,20	0,58
UF67	0,73	0,58	0,56	0,20	0,58
UF68	0,73	0,58	0,56	0,20	0,58
UF69	0,73	0,58	0,56	0,20	0,58
UF70	0,73	0,58	0,56	0,20	0,58
UF71	0,75	0,68	0,65	0,40	0,68
UF72	0,75	0,68	0,65	0,40	0,68
UF73	0,75	0,68	0,65	0,40	0,68
UF74	0,75	0,68	0,65	0,40	0,68
UF75	0,75	0,68	0,65	0,40	0,68
UF76	0,75	0,68	0,65	0,40	0,68
UF77	0,75	0,68	0,65	0,40	0,68
UF78	0,75	0,68	0,65	0,40	0,68
UF79	0,75	0,68	0,65	0,40	0,68
UF80	0,75	0,68	0,65	0,40	0,68
UF81	0,75	0,68	0,65	0,40	0,68
UF82	0,75	0,68	0,65	0,40	0,68
UF83	0,81	0,78	0,69	0,60	0,79
UF84	0,81	0,78	0,69	0,60	0,79
UF85	0,81	0,78	0,69	0,60	0,79
UF86	0,81	0,78	0,69	0,60	0,79
UF87	0,81	0,78	0,69	0,60	0,79
UF88	0,81	0,78	0,69	0,60	0,79
UF89	0,81	0,78	0,69	0,60	0,79
UF90	0,81	0,78	0,69	0,60	0,79
UF91	0,81	0,78	0,69	0,60	0,79
UF92	0,81	0,78	0,69	0,60	0,79
UF93	0,81	0,78	0,69	0,60	0,79
UF94	0,81	0,78	0,69	0,60	0,79
UF95	0,87	0,86	0,76	0,80	0,87
UF96	0,87	0,86	0,76	0,80	0,87
UF97	0,87	0,86	0,76	0,80	0,87
UF98	0,87	0,86	0,76	0,80	0,87
UF99	0,87	0,86	0,76	0,80	0,87
UG00	0,87	0,86	0,76	0,80	0,87
UG01	0,87	0,86	0,76	0,80	0,87
UG02	0,87	0,86	0,76	0,80	0,87
UG03	0,87	0,86	0,76	0,80	0,87
UG04	0,87	0,86	0,76	0,80	0,87
UG05	0,87	0,86	0,76	0,80	0,87
UG06	0,87	0,86	0,76	0,80	0,87
UG07	1,00	1,00	1,00	1,00	1,00

UG08	1,00	1,00	1,00	1,00	1,00
UG09	1,00	1,00	1,00	1,00	1,00
UG10	1,00	1,00	1,00	1,00	1,00
UG11	1,00	1,00	1,00	1,00	1,00
UG12	1,00	1,00	1,00	1,00	1,00
UG13	1,00	1,00	1,00	1,00	1,00
UG14	1,00	1,00	1,00	1,00	1,00
UG15	1,00	1,00	1,00	1,00	1,00
UG16	1,00	1,00	1,00	1,00	1,00
UG17	1,00	1,00	1,00	1,00	1,00
UG18	1,00	1,00	1,00	1,00	1,00
UG23	0,75	0,68	0,65	0,42	0,68
UG24	0,75	0,68	0,65	0,42	0,68
UG25	0,75	0,68	0,65	0,42	0,68
UG26	0,75	0,68	0,65	0,42	0,68
UG27	0,75	0,68	0,65	0,42	0,68
UG28	0,75	0,68	0,65	0,42	0,68
UG33	0,81	0,78	0,69	0,64	0,79
UG34	0,81	0,78	0,69	0,64	0,79
UG35	0,81	0,78	0,69	0,64	0,79
UG36	0,81	0,78	0,69	0,64	0,79
UG37	0,81	0,78	0,69	0,64	0,79
UG38	0,81	0,78	0,69	0,64	0,79
UG43	0,87	0,86	0,76	0,86	0,87
UG44	0,87	0,86	0,76	0,86	0,87
UG45	0,87	0,86	0,76	0,86	0,87
UG46	0,87	0,86	0,76	0,86	0,87
UG47	0,87	0,86	0,76	0,86	0,87
UG48	0,87	0,86	0,76	0,86	0,87
UG53	1,00	1,00	1,00	1,07	1,00
UG54	1,00	1,00	1,00	1,07	1,00
UG55	1,00	1,00	1,00	1,07	1,00
UG56	1,00	1,00	1,00	1,07	1,00
UG57	1,00	1,00	1,00	1,07	1,00
UG58	1,00	1,00	1,00	1,07	1,00
S965	0,73	0,58	0,56	0,20	0,58
S966	0,73	0,58	0,56	0,20	0,58
S967	0,73	0,58	0,56	0,20	0,58
S968	0,73	0,58	0,56	0,20	0,58
S969	0,75	0,68	0,65	0,40	0,68
S970	0,75	0,68	0,65	0,40	0,68
S971	0,75	0,68	0,65	0,40	0,68
S972	0,75	0,68	0,65	0,40	0,68
S973	0,81	0,78	0,69	0,60	0,79
S974	0,81	0,78	0,69	0,60	0,79
S975	0,81	0,78	0,69	0,60	0,79
S976	0,81	0,78	0,69	0,60	0,79
S977	0,73	0,58	0,56	0,20	0,58
S978	0,73	0,58	0,56	0,20	0,58

S979	0,73	0,58	0,56	0,20	0,58
S980	0,73	0,58	0,56	0,20	0,58
S981	0,75	0,68	0,65	0,40	0,68
S982	0,75	0,68	0,65	0,40	0,68
S983	0,75	0,68	0,65	0,40	0,68
S984	0,75	0,68	0,65	0,40	0,68
S985	0,81	0,78	0,69	0,60	0,79
S986	0,81	0,78	0,69	0,60	0,79
S987	0,81	0,78	0,69	0,60	0,79
S988	0,81	0,78	0,69	0,60	0,79

The following table reports the information of the products included in the homogeneous environmental family.

Product Code	System power (Watt)	Total weight (Kg)	Structure weight + Packaging weight (Kg)	Power supply weight (Kg)	Lighting Source weight (Kg)	Packaging weight (Kg)	Luminaries weight (Kg)
UE19	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE20	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE21	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE22	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE23	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE24	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE25	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE26	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE27	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE28	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE29	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE30	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE31	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE32	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE33	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE34	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE35	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE36	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE37	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE38	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE39	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE40	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE41	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE42	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE43	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE44	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE45	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE46	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UE47	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE48	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE49	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE50	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE51	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE52	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE53	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE54	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE55	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE56	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE57	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE58	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE59	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE60	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229

UE61	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE62	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE63	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE64	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE65	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE66	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE67	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE68	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE69	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE70	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE71	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE72	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE73	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE74	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UE75	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE76	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE77	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE78	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE79	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE80	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE81	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE82	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE83	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE84	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE85	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE86	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE87	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE88	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE89	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE90	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE91	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE92	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE93	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE94	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE95	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE96	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE97	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE98	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UE99	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF00	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF01	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF02	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF03	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF04	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF05	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF06	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF07	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF08	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF09	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846

UF10	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF11	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF12	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF13	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF14	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF15	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF16	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF17	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF18	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF19	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF20	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF21	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF22	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF23	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF24	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF25	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF26	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF27	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF28	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF29	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF30	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF31	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF32	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF33	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF34	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF35	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF36	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF37	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF38	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF39	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF40	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF41	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF42	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF43	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF44	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF45	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF46	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF47	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF48	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF49	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF50	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF51	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF52	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF53	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF54	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF55	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF56	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF57	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UF58	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671

UF59	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF60	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF61	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF62	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF63	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF64	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF65	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF66	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF67	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF68	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF69	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF70	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
UF71	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF72	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF73	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF74	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF75	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF76	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF77	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF78	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF79	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF80	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF81	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF82	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
UF83	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF84	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF85	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF86	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF87	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF88	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF89	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF90	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF91	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF92	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF93	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF94	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
UF95	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF96	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF97	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF98	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UF99	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG00	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG01	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG02	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG03	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG04	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG05	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG06	15,3	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG07	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671

UG08	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG09	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG10	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG11	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG12	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG13	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG14	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG15	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG16	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG17	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG18	19,1	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG23	8,1	2,5357	1,305	1,23	0,0006	0,3067	2,229
UG24	8,1	2,5357	1,305	1,23	0,0006	0,3067	2,229
UG25	8,1	2,5357	1,305	1,23	0,0006	0,3067	2,229
UG26	8,1	2,5357	1,305	1,23	0,0006	0,3067	2,229
UG27	8,1	2,5357	1,305	1,23	0,0006	0,3067	2,229
UG28	8,1	2,5357	1,305	1,23	0,0006	0,3067	2,229
UG33	12,3	2,9125	1,682	1,23	0,0009	0,3265	2,586
UG34	12,3	2,9125	1,682	1,23	0,0009	0,3265	2,586
UG35	12,3	2,9125	1,682	1,23	0,0009	0,3265	2,586
UG36	12,3	2,9125	1,682	1,23	0,0009	0,3265	2,586
UG37	12,3	2,9125	1,682	1,23	0,0009	0,3265	2,586
UG38	12,3	2,9125	1,682	1,23	0,0009	0,3265	2,586
UG43	16,4	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG44	16,4	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG45	16,4	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG46	16,4	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG47	16,4	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG48	16,4	3,2082	1,977	1,23	0,0013	0,3622	2,846
UG53	20,4	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG54	20,4	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG55	20,4	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG56	20,4	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG57	20,4	3,7411	2,510	1,23	0,0016	0,474	3,2671
UG58	20,4	3,7411	2,510	1,23	0,0016	0,474	3,2671
S965	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
S966	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
S967	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
S968	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
S969	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
S970	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
S971	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
S972	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
S973	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
S974	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
S975	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
S976	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
S977	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
S978	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893

S979	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
S980	3,9	2,1577	0,927	1,23	0,0003	0,2647	1,893
S981	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
S982	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
S983	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
S984	7,7	2,5357	1,305	1,23	0,0006	0,3067	2,229
S985	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
S986	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
S987	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586
S988	11,5	2,9125	1,682	1,23	0,0009	0,3265	2,586