



UL LLC
1075 W Lambert Rd Suite B
Brea, CA 92821

Photometric Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
Auroralight Inc
2742 Loker Ave. West
Carlsbad, CA 92010

Catalog Number
LBD250-S7-SL-12-30-25 (STACKED LOUVERS, 3000K)
Order Number
11263738
Test Number
1254209

Test Date

2016-07-27

Prepared By

Tony Rubio, Technician

Approved By

Eric Gaudreau, Senior Engineering Associate

The results contained in this report pertain only to the tested sample.
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Luminaire Description: Spherical 7" copper shade with stacked louvers and cylindrical 25" copper stem with brass base
Lamp: Six (6) Cree XPL-L 3000K LEDs
Mounting: Path/Area
Ballast/Driver: L.T.F. DL112W480C24LP6?-0000

Luminaire



Luminaire Characteristics

Luminous Diameter: 7.00 in.
Luminous Height: 1.500 in.

Summary of Results

Roadway Classification: Type V, Very Short
Cutoff Classification: Semicutoff
BUG Rating: B0 U1 G0

Test Conditions

Test Temperature: 24.5 °C
Voltage: 12.04 VAC
Current: 1.881 A
Power: 13.24 W
Power Factor: 0.584
Frequency: 60 Hz
Current THD: 78.8 %

Tested in 30 planes left side, 30 planes right side, left and right averaged
Vertical test increments are 2.5 degrees
Test distance exceeds five times the greatest luminous opening of luminaire

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.5 °C	12.04 VAC	1.881 A	13.24 W	0.584	60 Hz	78.8 %

Summary of Results

Spacing Criteria

0-180: 1.01

90-270: 1.01

Total Lumen Output:

212.2 Lumens

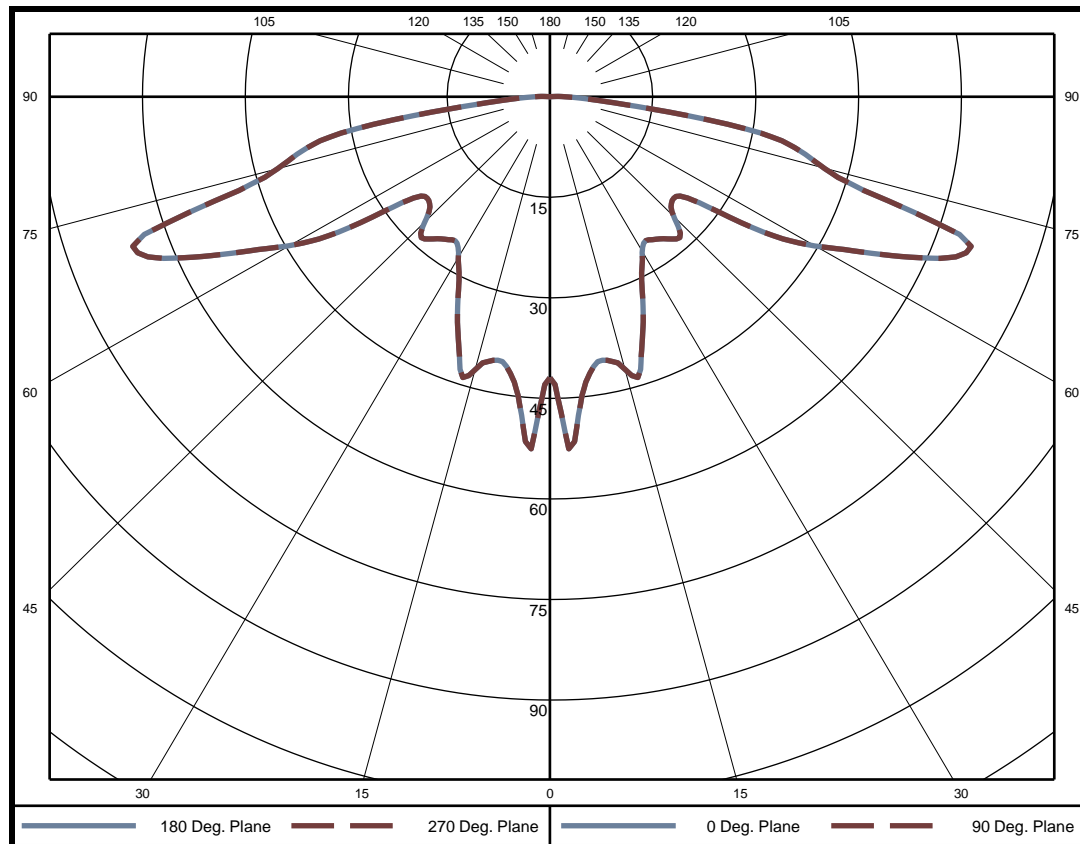
Luminaire Efficacy:

16.0 lm/w

Maximum Candela:

65 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	1.18	0.6%	60-65	24.35	11.5%	120-125	0	0.0%
5-10	3.04	1.4%	65-70	31.44	14.8%	125-130	0	0.0%
10-15	4.82	2.3%	70-75	27.52	13.0%	130-135	0	0.0%
15-20	6.96	3.3%	75-80	19.80	9.3%	135-140	0	0.0%
20-25	7.42	3.5%	80-85	9.95	4.7%	140-145	0	0.0%
25-30	7.36	3.5%	85-90	2.52	1.2%	145-150	0	0.0%
30-35	7.64	3.6%	90-95	0.62	0.3%	150-155	0	0.0%
35-40	8.94	4.2%	95-100	0.02	0.0%	155-160	0	0.0%
40-45	10.20	4.8%	100-105	0	0.0%	160-165	0	0.0%
45-50	9.76	4.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	11.00	5.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	17.62	8.3%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	47	22.3%
0-60	96	45.2%
0-90	212	99.7%
90-180	1	0.3%



Candela Tabulation

Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
	0	41.92	41.92	41.92	41.92	41.92	41.92	41.92	41.92	41.92	41.92	41.92	41.92	41.92	41.92	41.92
	5	47.70	47.70	47.70	47.70	47.70	47.70	47.70	47.70	47.70	47.70	47.70	47.70	47.70	47.70	47.70
	10	40.12	40.12	40.12	40.12	40.12	40.12	40.12	40.12	40.12	40.12	40.12	40.12	40.12	40.12	40.12
	15	42.06	42.06	42.06	42.06	42.06	42.06	42.06	42.06	42.06	42.06	42.06	42.06	42.06	42.06	42.06
	20	39.24	39.24	39.24	39.24	39.24	39.24	39.24	39.24	39.24	39.24	39.24	39.24	39.24	39.24	39.24
	25	31.79	31.79	31.79	31.79	31.79	31.79	31.79	31.79	31.79	31.79	31.79	31.79	31.79	31.79	31.79
	30	26.86	26.86	26.86	26.86	26.86	26.86	26.86	26.86	26.86	26.86	26.86	26.86	26.86	26.86	26.86
	35	26.04	26.04	26.04	26.04	26.04	26.04	26.04	26.04	26.04	26.04	26.04	26.04	26.04	26.04	26.04
	40	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70	27.70
	45	25.68	25.68	25.68	25.68	25.68	25.68	25.68	25.68	25.68	25.68	25.68	25.68	25.68	25.68	25.68
	50	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55	23.55
	55	29.83	29.83	29.83	29.83	29.83	29.83	29.83	29.83	29.83	29.83	29.83	29.83	29.83	29.83	29.83
	60	44.52	44.52	44.52	44.52	44.52	44.52	44.52	44.52	44.52	44.52	44.52	44.52	44.52	44.52	44.52
	65	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39	56.39
	70	65.28	65.28	65.28	65.28	65.28	65.28	65.28	65.28	65.28	65.28	65.28	65.28	65.28	65.28	65.28
	75	41.44	41.44	41.44	41.44	41.44	41.44	41.44	41.44	41.44	41.44	41.44	41.44	41.44	41.44	41.44
	80	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18	31.18
	85	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11	8.11
	90	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20	2.20
	95	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17	0.17
	100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Average Luminance (cd/m²)

Horizontal Angle (Degrees)

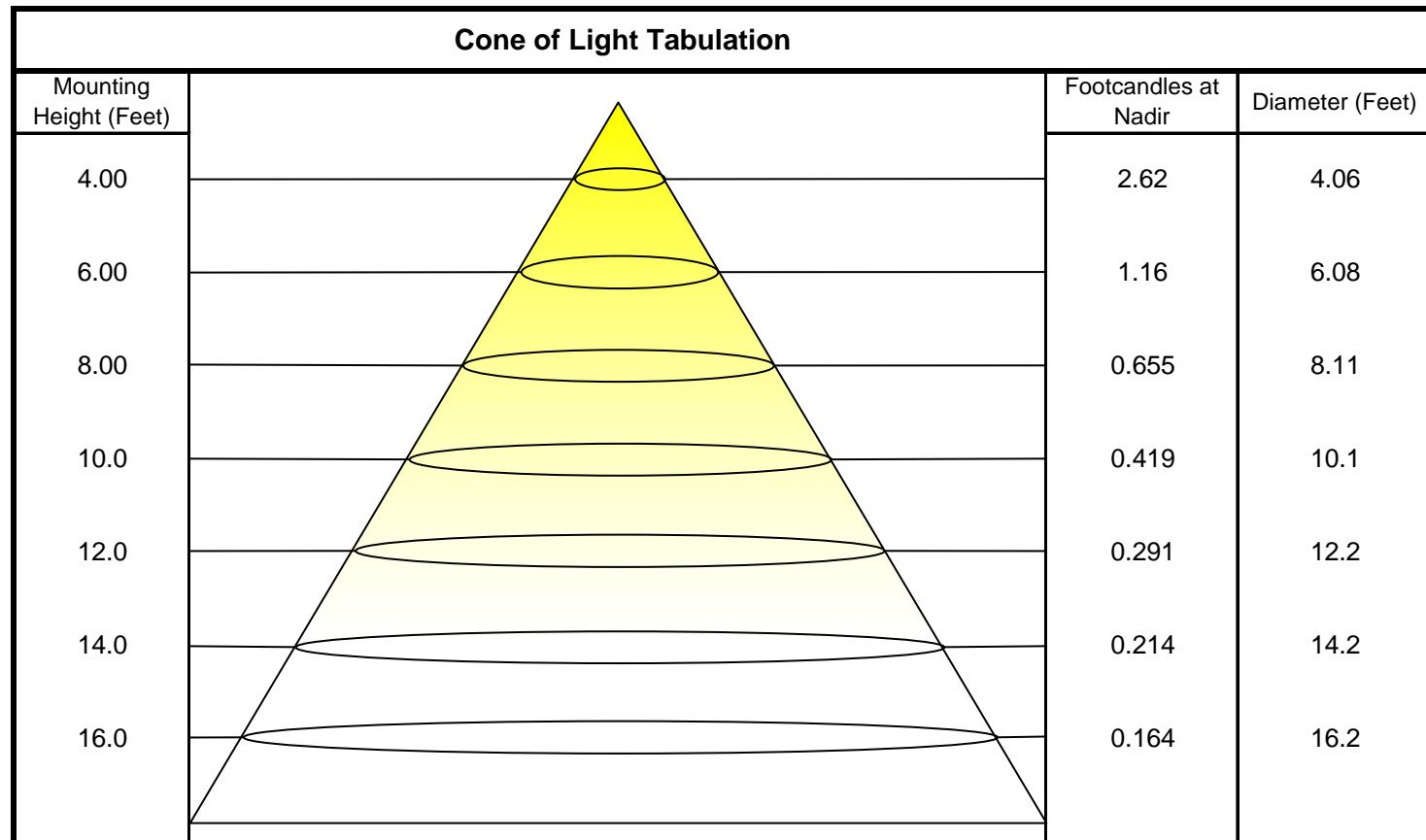
Vertical Angle (Degrees)	0	45	90
	0	1689	1689
	45	1878	1878
	55	2003	2003
	65	3524	3524
	75	2506	2506
	85	494	494



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%																		
Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	252	252	252	252	246	246	246	246	235	235	235	225	225	225	216	216	216	212
1	219	203	190	178	212	198	186	174	189	178	169	180	171	163	171	164	158	153
2	191	166	145	128	184	161	143	127	153	137	123	145	132	120	138	127	117	111
3	169	139	115	97	162	135	113	96	128	109	94	121	105	92	115	102	90	84
4	151	119	95	77	146	116	93	76	110	90	75	104	87	73	99	84	72	66
5	138	104	80	63	132	101	79	62	96	76	61	91	74	60	87	72	59	54
6	126	92	69	53	121	90	68	53	86	66	52	82	64	51	78	62	50	45
7	117	83	61	46	112	81	60	45	77	59	45	74	57	44	71	55	44	39
8	108	75	54	40	105	74	54	40	71	52	40	68	51	39	65	50	39	34
9	101	69	49	36	98	68	49	36	65	48	35	62	46	35	60	45	35	30
10	95	64	45	32	92	62	44	32	60	43	32	58	43	32	56	42	31	27

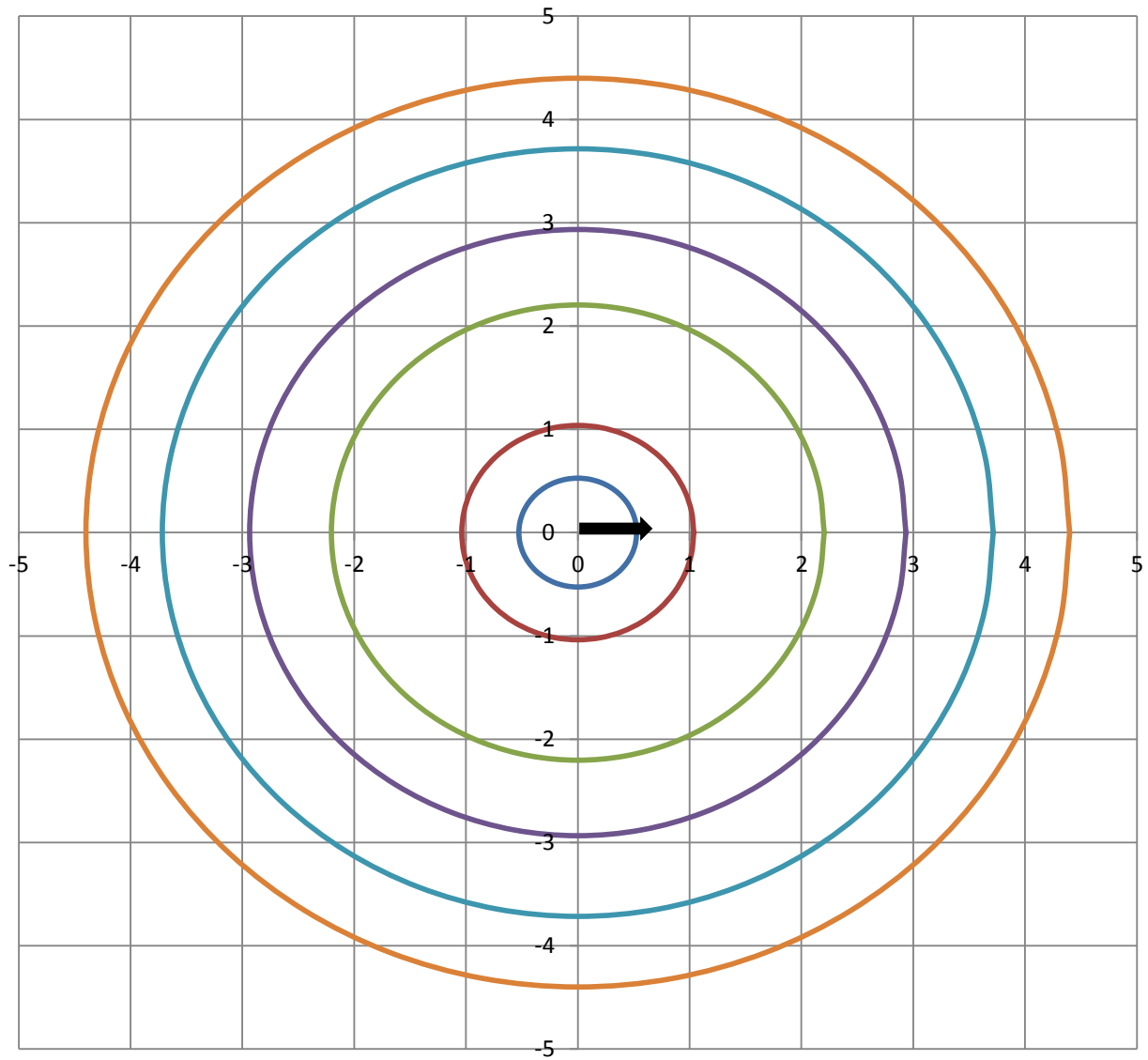
Beam and Field Information	
CIE Type:	Direct
Center Beam Intensity:	41.92 Candela
Central Cone Intensity:	48 Candela
Beam Flux:	204.3 Lumens
Beam Angle (0-180):	163.8 Degrees
Beam Angle (90-270):	163.8 Degrees
Field Angle (0-180):	175.3 Degrees
Field Angle (90-270):	175.3 Degrees





ISOFootcandle Plot

Mounting Height - 2 Feet

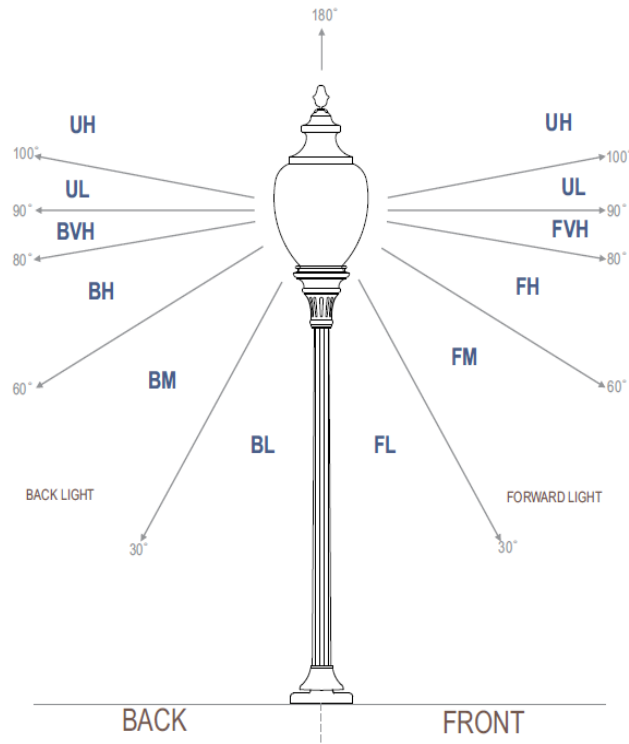


Grid Lines in Units of Mounting Height





IES "BUG" Rating
(Back Light, Uplight, Glare)
Per IES TM-15-11



Luminaire Classification System (LCS)

LCS	Zone	Lumens	Luminaire %
FL	(0-30)	15.4	7.2%
FM	(30-60)	32.7	15.4%
FH	(60-80)	51.7	24.2%
FVH	(80-90)	6.4	3.0%
BL	(0-30)	15.4	7.2%
BM	(30-60)	32.7	15.4%
BH	(60-80)	51.7	24.2%
BVH	(80-90)	6.4	3.0%
UL	(90-100)	0.7	0.3%
UH	(100-180)	0.0	0.0%
Total		213.2	100.0%
BUG Rating	B0 U1 G0		