

TEST REPORT

1. Applicant

Client Name : FEELUX Co. Ltd.

Address : 235-48 Gwangjeok-ro Gwangjeok-myeon Yangju-si Gyeonggi-do 482-844 Korea

Date of Receipt : 20141031

2. Purpose of Report : Sample test

3. Test Standard / Item : LED / NDV FLEX 1W 4K 90

4. Test Period : 20141031 ~ 20141031

5. Test Environment

Ambient Temp. : (19.31 +- 3) °C

Relative Humidity : (41.26 +- 10) % RH

6. Test Result : Refer to the attachment

Test Item

Name of Product :

Model / Rating :

Model :

Rating :

Confirmation	Test by	Technical manager
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The result shown in this test report refer only to the sample(s) tested unless otherwise stated.

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This report is for reference only. It cannot replace the report by standard organization(s).

TEST RESULT

Report Number	Sample Name	Sample Number	Test Standard
20141031-0010			LED

Test Item	Unit	Result	Memo
Beam Distribution Test	-	See attachment	
ATHD	%	0.0	
CIE 1931 Cxy		0.3811, 0.3764	
Correlated Color Temperature	K	3988	
Ra	-	85.8	
Power Factor	%	1.000	
Input Voltage	V	24.000	
Input Current	A	0.047	
Input Watt	W	1.12	
Lamp Flux	lm	54.9	
Efficient	lm/W	48.67	
Illuminance	lx	22	1 m
		5	2 m
		2	3 m

* This test result is for the sample provided by the client.

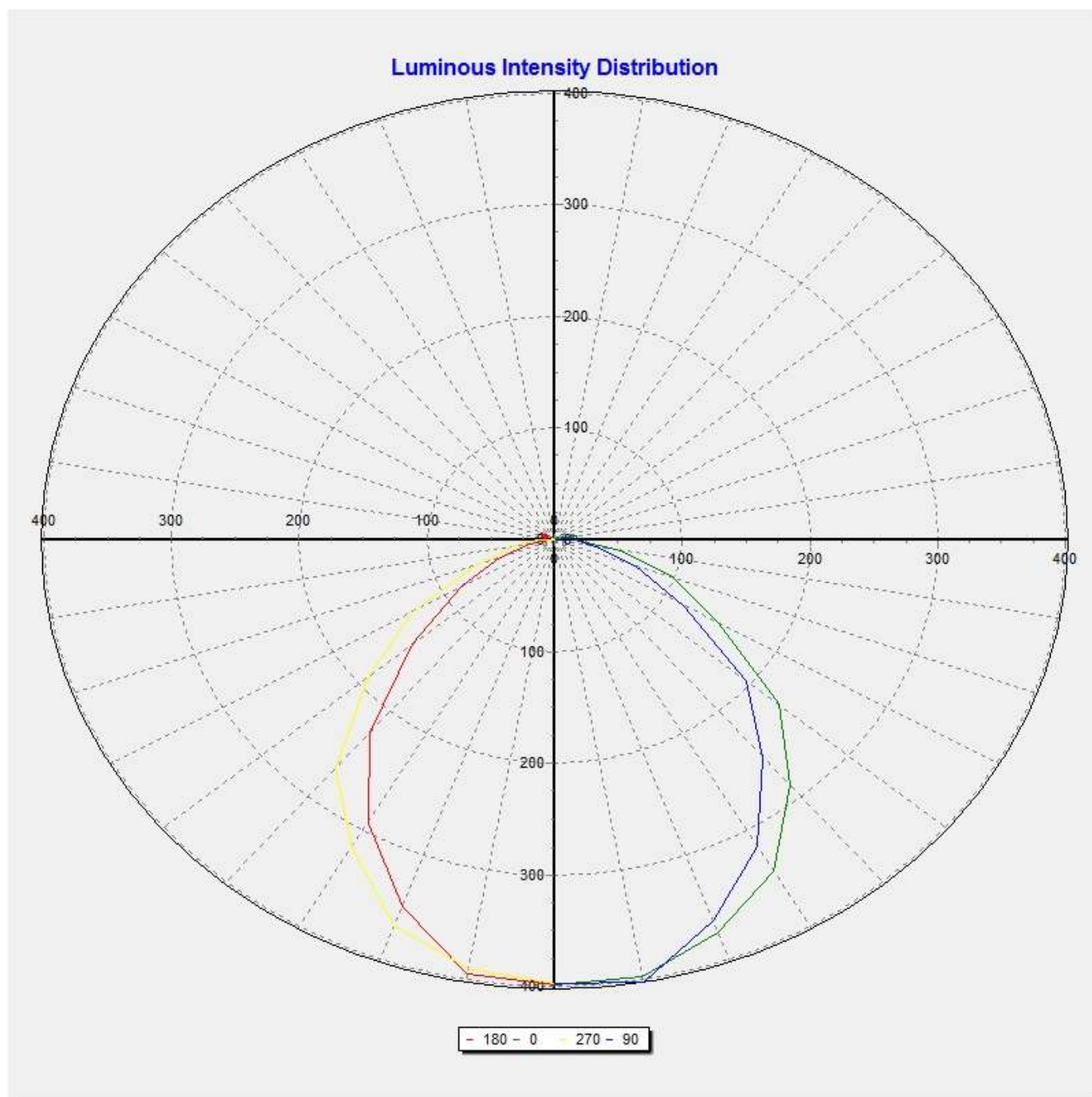
Sample photo

[Click to load image](#)

Luminaire

Lamp	Report	20141031-0010
No. of lamps	1	Filename C:\Program Files\JNCTECH\GoniLED\StartUp\Data\141031\WINDV FLEX 1W 4K 90.jdt
Lamp flux (lm)	55	Operator Current (A) 0.047
Total flux (lm)	55	Date Power Factor 1

2014-10-31 오후 4:07:52



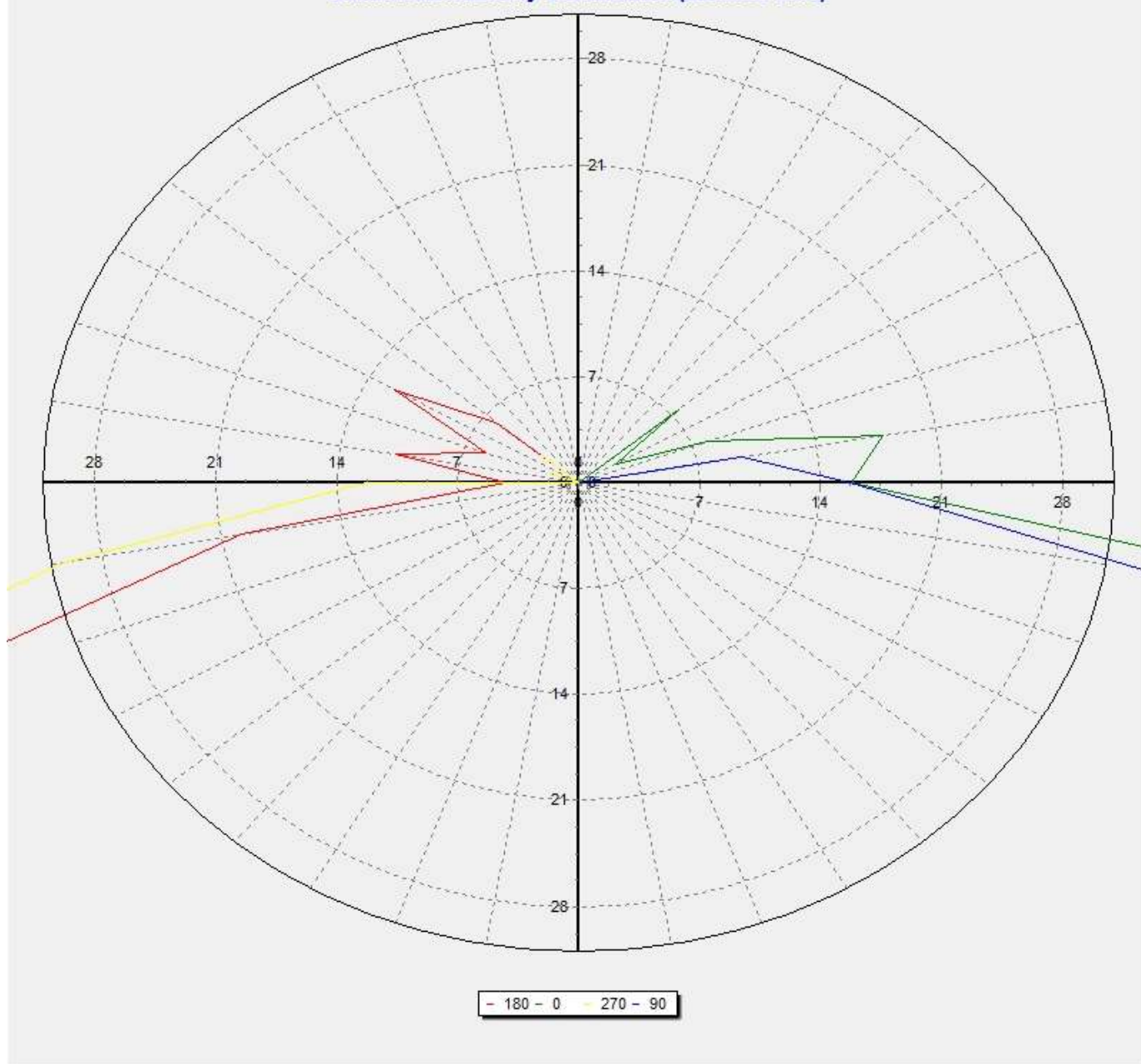
All luminous intensity values are in Cd/KLm unit.

Luminaire

Lamp	Report	20141031-0010
No. of lamps	1	Filename C:\Program Files\JNCTECH\GoniLED\StartUp\Data\141031\WINDV FLEX 1W 4K 90.jdt
Lamp flux (lm)	55	Operator Current (A) 0.047
Total flux (lm)	55	Date Power Factor 1

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Luminous Intensity Distribution (Lowest 10%)



All luminous intensity values are in Cd/Klm unit.

Luminaire

Lamp	Report				20141031-0010
No. of lamps	1	Filename C:\Program Files\JNCTECH\GoniLED\Startup\Data\141031\WINDV FLEX 1W 4K 90.jdt			
Lamp flux (lm)	55	Operator	Current (A)	0.047	
Total flux (lm)	55	Date	Power Factor	1	2014-10-31 오후 4:07:52

Luminous Intensity Data

GWC	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140
0	21.89	21.87	22.41	22.58	22.09	22.20	22.64	21.82	21.85	21.81	21.84	22.11	21.81	21.85	21.66
10	21.79	21.69	21.89	21.94	22.10	22.04	21.74	21.43	21.32	22.07	21.54	21.02	21.15	21.13	20.58
20	20.54	20.36	21.17	21.55	21.11	20.60	20.37	20.07	19.67	19.94	19.42	20.14	19.53	18.72	20.15
30	18.83	18.63	18.62	18.91	18.20	18.26	17.77	17.42	17.03	17.41	16.72	16.66	16.99	16.64	16.69
40	15.76	15.33	16.05	15.54	15.27	15.04	14.87	13.79	14.11	13.93	13.92	13.11	13.50	12.96	12.68
50	12.58	11.76	11.65	12.62	11.48	10.73	11.05	10.14	10.79	10.78	10.12	9.63	8.84	8.38	8.79
60	8.18	8.52	7.80	7.18	8.10	7.80	7.46	7.25	6.86	6.39	6.23	6.17	6.36	6.01	6.05
70	5.36	5.24	5.47	5.93	5.05	4.00	4.60	4.21	3.94	3.68	3.75	2.78	3.55	3.65	2.67
80	2.96	2.56	2.72	3.07	2.86	2.48	2.51	2.32	1.74	1.81	1.60	1.37	1.72	2.05	2.01
90	0.87	1.37	1.66	1.03	1.16	1.34	1.17	0.97	0.41	0.86	1.18	1.29	1.39	0.63	0.43
100	0.98	0.04	0.47	0.08	0.43	0.49	0.79	0.39	-0.11	0.53	0.24	0.33	1.08	0.34	0.70
110	0.44	-0.26	0.38	0.34	0.37	0.22	0.23	0.39	0.48	-0.16	0.78	-0.14	0.16	1.02	1.24
120	0.14	-0.22	0.17	0.72	0.70	-0.08	0.74	0.20	0.64	-0.33	0.35	0.73	-0.09	0.25	-0.63
130	0.41	0.49	-0.12	0.60	0.34	0.39	0.54	0.59	0.34	-0.11	-0.09	0.89	-0.06	0.29	-0.41

Luminaire

Lamp	Report				20141031-0010
No. of lamps	1	Filename C:\Program Files\JNCTECH\GoniLED\StartUp\Data\141031\W\NDV FLEX 1W 4K 90.jdt			
Lamp flux (lm)	55	Operator	Current (A)	0.047	
Total flux (lm)	55	Date	Power Factor	1	2014-10-31 오후 4:07:52

Luminous Intensity Data (Continued)

GWC	150	160	170	180	190	200	210	220	230	240	250	260	270	280	290
0	21.92	21.65	22.29	21.89	21.87	22.41	22.58	22.09	22.20	22.64	21.82	21.85	21.81	21.84	22.11
10	21.14	21.18	20.60	21.66	21.13	20.64	21.38	21.92	21.37	20.93	21.23	21.90	21.40	20.96	21.17
20	18.46	19.37	19.42	19.17	19.62	19.29	19.33	19.78	20.37	19.81	19.92	19.96	20.16	20.47	20.44
30	16.12	16.49	15.53	16.06	15.97	15.78	16.11	16.93	17.01	17.21	17.28	17.17	17.46	17.51	17.86
40	12.33	12.29	12.23	12.35	12.23	12.72	13.20	13.54	13.46	13.80	13.48	14.01	14.64	14.75	15.10
50	8.56	9.27	8.97	7.98	8.54	9.08	9.07	8.90	9.22	9.04	9.97	10.13	10.46	10.75	11.06
60	5.35	5.53	5.08	4.62	5.24	6.04	5.56	4.96	5.90	6.12	6.31	6.29	7.08	7.22	7.30
70	3.65	3.29	2.69	2.48	2.33	2.33	2.88	3.28	2.92	3.56	4.16	3.73	3.65	3.90	4.77
80	1.54	0.50	0.82	1.08	0.86	1.05	1.85	1.33	1.02	1.50	1.51	1.58	1.66	2.36	2.13
90	0.72	0.77	0.47	0.23	0.69	0.55	0.68	-0.13	0.06	0.24	0.97	0.32	0.68	0.38	0.98
100	0.07	-0.02	0.28	0.59	0.21	0.35	0.49	0.13	-0.40	0.14	0.13	0.66	-0.19	0.13	0.64
110	0.71	-0.15	0.56	0.31	0.56	0.27	0.48	0.39	0.75	0.52	-0.04	0.37	0.09	-0.28	-0.07
120	0.06	0.32	0.19	0.67	0.14	0.94	0.50	0.11	0.73	0.09	0.14	0.31	-0.27	0.29	0.03
130	0.04	0.07	0.75	0.34	-0.53	-0.13	-0.11	-0.49	0.15	0.18	0.11	0.22	0.15	0.27	0.19

Luminaire

Lamp	Report				20141031-0010
No. of lamps	1	Filename C:\Program Files\JNCTECH\GoniLED\StartUp\Data\141031\WINDV FLEX 1W 4K 90.jdt			
Lamp flux (lm)	55	Operator	Current (A)	0.047	
Total flux (lm)	55	Date	Power Factor	1	2014-10-31 오후 4:07:52

Luminous Intensity Data (Continued)

GWC	300	310	320	330	340	350	360
0	21.81	21.85	21.66	21.92	21.65	22.29	21.89
10	21.75	21.43	21.61	22.41	22.29	22.16	21.79
20	20.51	21.12	21.10	20.97	20.75	21.74	20.54
30	18.38	18.38	18.32	19.47	18.90	18.66	18.83
40	14.80	16.32	15.97	14.99	15.46	16.44	15.76
50	11.65	11.91	12.25	12.39	11.51	12.74	12.58
60	7.08	8.33	8.18	7.97	8.39	8.36	8.18
70	4.94	5.11	4.80	5.11	5.00	5.78	5.36
80	2.25	2.84	3.18	3.17	2.60	2.56	2.96
90	1.55	0.94	0.49	0.97	1.56	1.48	0.87
100	0.22	-0.04	0.95	0.05	0.35	0.59	0.98
110	0.28	0.06	-0.30	-0.14	0.17	-0.05	0.44
120	0.02	0.96	0.79	0.09	0.13	-0.22	0.14
130	-0.14	0.13	0.18	1.05	-0.54	0.07	0.41

Luminaire

Lamp	Report	20141031-0010
No. of lamps	1	Filename C:\Program Files\JNCTECH\GoniLED\StartUp\Data\141031\WINDV FLEX 1W 4K 90.jdt
Lamp flux (lm)	55	Operator Current (A) 0.047
Total flux (lm)	55	Date Power Factor 1 2014-10-31 오후 4:07:52

Luminous Flux Table

Total Lamp Lumens: 54.9
 Luminaire Efficiency (lm/W): 54.92
 CIE Classification: Direct

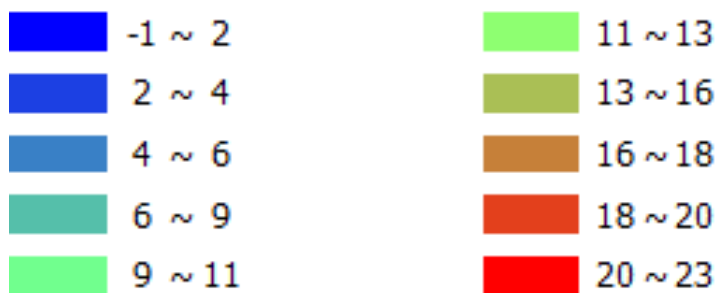
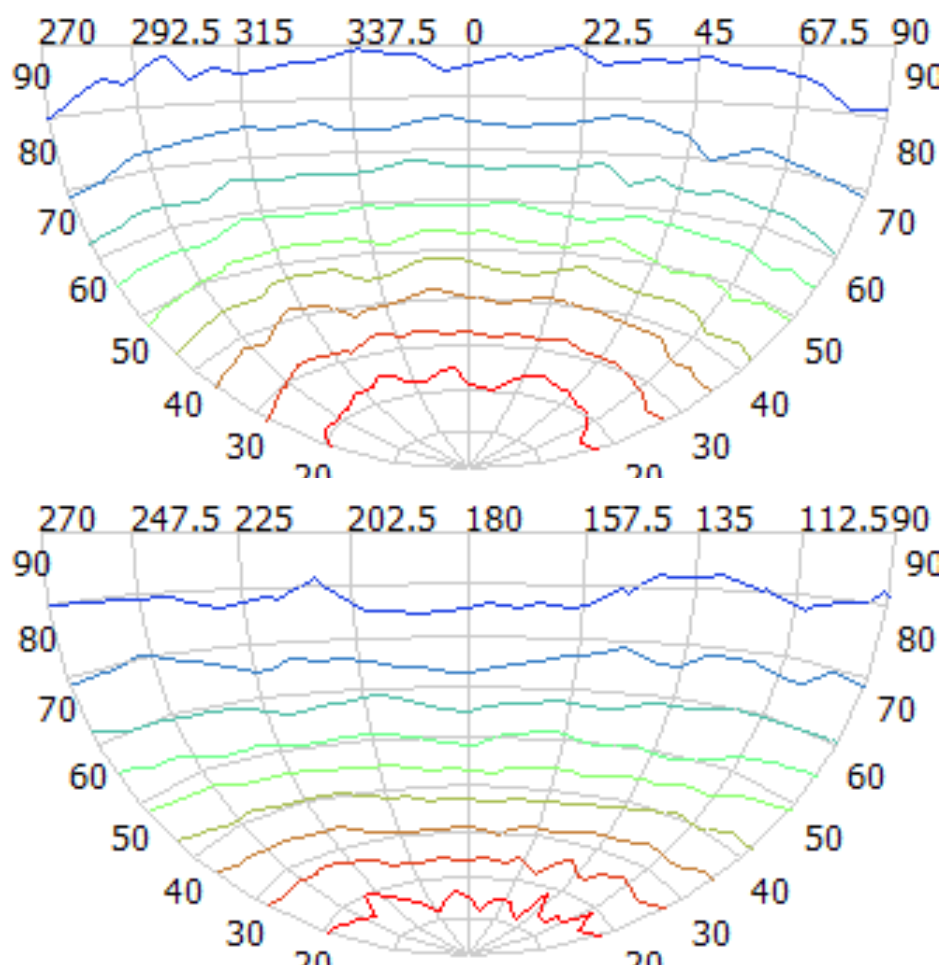
Elevation	Lumens	Cumulative	Lamp %	Luminaire %
0	0.53	0.53	0.96	0.96
10	4.09	4.61	8.40	8.40
20	7.54	12.16	22.15	22.14
30	9.54	21.70	39.53	39.52
40	9.97	31.67	57.70	57.67
50	8.69	40.36	73.52	73.49
60	6.41	46.77	85.20	85.17
70	4.12	50.90	92.71	92.67
80	2.13	53.03	96.59	96.56
90	0.92	53.95	98.28	98.24
100	0.36	54.32	98.94	98.90
110	0.29	54.60	99.46	99.42
120	0.24	54.85	99.90	99.87
130	0.07	54.92	100.04	100.00

Luminaire

Lamp	Report	20141031-0010
No. of lamps	1	Filename C:\Program Files\JNCTECH\GoniLED\StartUp\Data\141031\W\NDV FLEX 1W 4K 90.jdt
Lamp flux (lm)	55	Operator Current (A) 0.047
Total flux (lm)	55	Date Power Factor 1

2014-10-31 오후 4:07:52

IsoCandela (Type C)

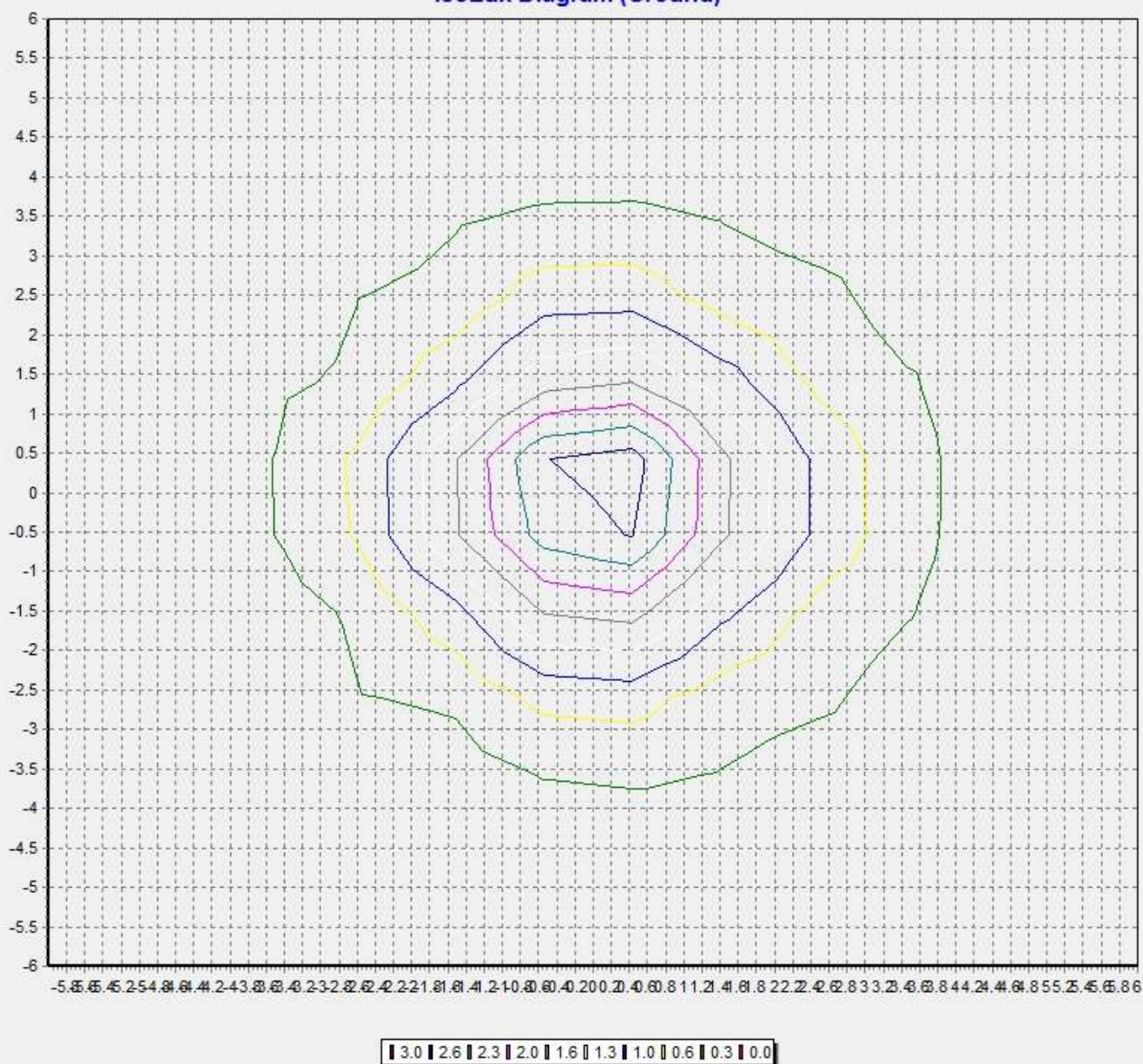


Luminaire

Lamp	Report	20141031-0010
No. of lamps	1	Filename C:\Program Files\WJNCTECH\GoniLED\StartUp\Data\W141031\WNDV FLEX 1W 4K 90.jdt
Lamp flux (lm)	55	Operator Current (A) 0.047
Total flux (lm)	55	Date Power Factor 1

2014-10-31 오후 4:07:52

IsoLux Diagram (Ground)



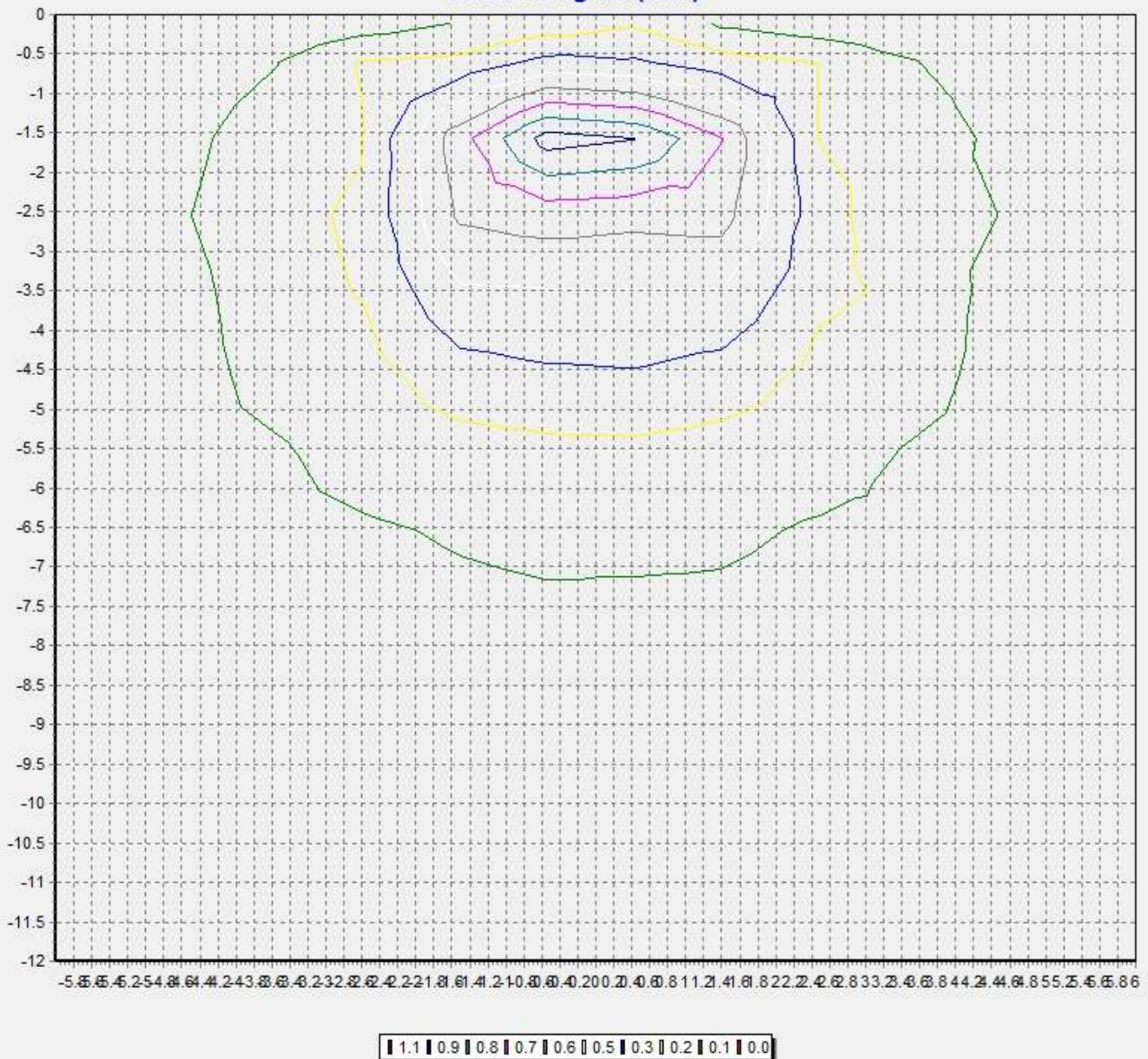
Pole Height (m): 2.7

Area Width (m): 12

Luminaire

Lamp	Report				20141031-0010
No. of lamps	1	Filename C:\Program Files\JNCTECH\GoniLED\StartUp\Data\141031\NDV FLEX 1W 4K 90.jdt			
Lamp flux (lm)	55	Operator	Current (A)	0.047	
Total flux (lm)	55	Date	Power Factor	1	2014-10-31 오후 4:07:52

IsoLux Diagram (Wall)



Pole Height (m): 2.7
Aiming Plane: 0

Wall Distance (m): 2.7
Wall Height (m): 12

Luminaire

Lamp

Report

20141031-0010

No. of lamps 1 Voltage (V) 24

Filename C:\Program Files\JNCTECH\GoniLED\StartUp\Data\141031\WINDV FLEX 1W 4K 90.jdt

Lamp flux (lm) 55 Current (A) 0.047

Operator

Total flux (lm) 55 Power Factor 1

Date

2014-10-31 오후 4:07:52

Illuminance Levels (Ground)

6.00	0.02	0.03	0.02	0.03	0.03	0.04	0.05	0.05	0.05	0.03	0.03	0.04	0.03
5.00	0.03	0.02	0.03	0.05	0.11	0.14	0.15	0.14	0.11	0.06	0.05	0.04	0.04
4.00	0.02	0.03	0.08	0.12	0.13	0.17	0.20	0.18	0.15	0.16	0.11	0.05	0.03
3.00	0.03	0.05	0.12	0.14	0.35	0.37	0.47	0.42	0.40	0.19	0.16	0.07	0.04
2.00	0.03	0.10	0.12	0.33	0.47	0.85	1.08	0.95	0.60	0.43	0.15	0.13	0.05
1.00	0.04	0.12	0.15	0.33	0.80	1.66	2.49	1.83	0.99	0.45	0.22	0.16	0.06
0.00	0.03	0.11	0.14	0.36	0.97	2.44	3.00	2.46	1.20	0.54	0.24	0.17	0.06
-1.00	0.03	0.10	0.13	0.34	0.82	1.64	2.42	1.81	0.99	0.47	0.22	0.16	0.06
-2.00	0.03	0.09	0.12	0.35	0.48	0.86	1.11	0.94	0.59	0.43	0.16	0.13	0.05
-3.00	0.02	0.04	0.12	0.13	0.36	0.35	0.46	0.42	0.41	0.18	0.17	0.07	0.04
-4.00	0.02	0.03	0.08	0.12	0.12	0.17	0.20	0.19	0.14	0.16	0.11	0.05	0.03
-5.00	0.02	0.02	0.03	0.05	0.11	0.13	0.15	0.14	0.12	0.06	0.05	0.03	0.04
-6.00	0.02	0.02	0.02	0.03	0.04	0.05	0.05	0.05	0.05	0.04	0.03	0.04	0.03
-6.00	-5.00	-4.00	-3.00	-2.00	-1.00	0.00	1.00	2.00	3.00	4.00	5.00	6.00	

Illum. (Max.): 3.00

All illuminance level values are in lux.

Illum. (Min.): 0.02

Illum. Avg.: 0.31

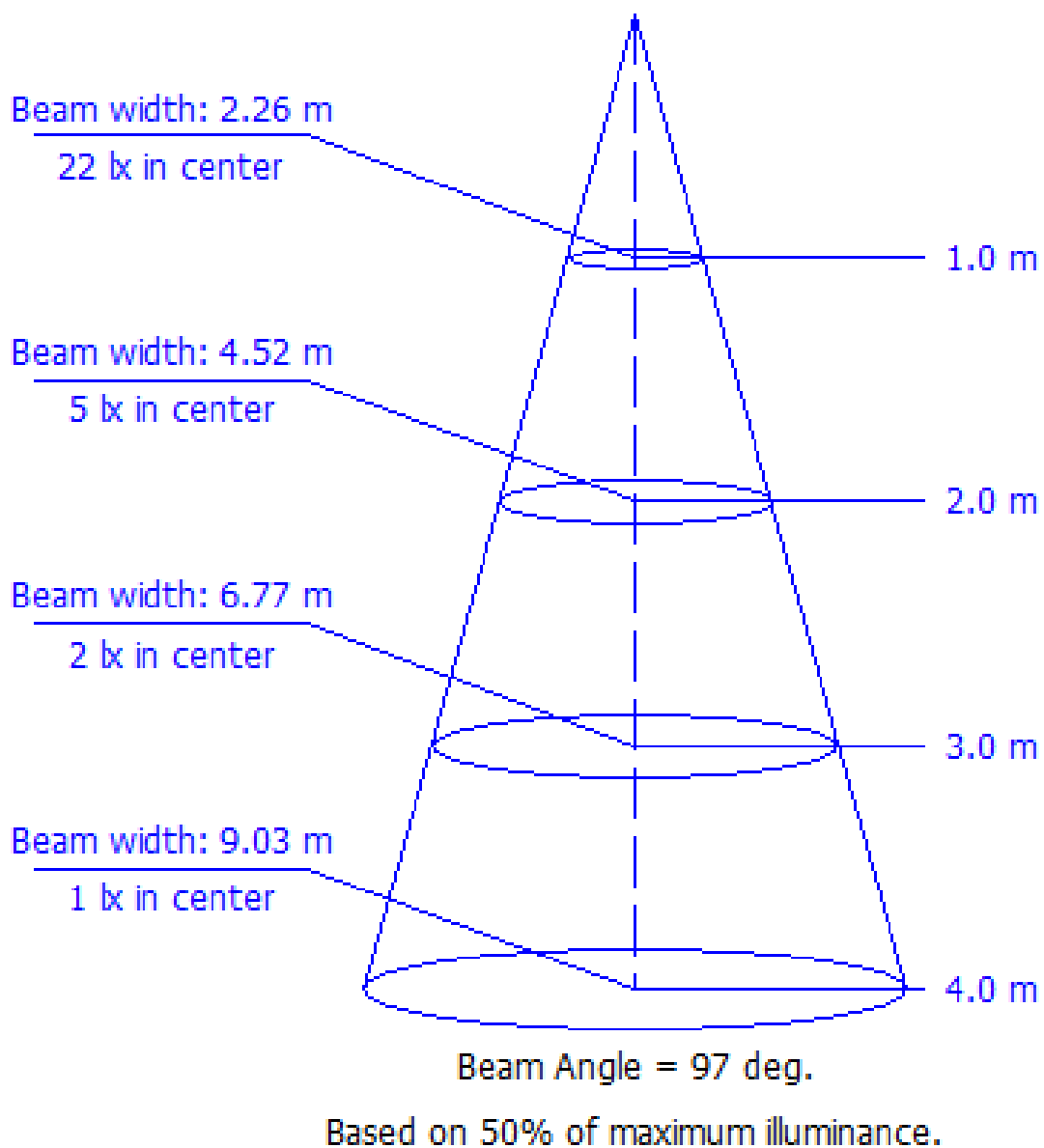
Total Optical Solution Provider


<http://www.jnctech.co.kr>
 J & C Technology Co., Ltd.

Luminaire

Lamp	Report				20141031-0010
No. of lamps	1	Filename C:\Program Files\JUNCTECH\GoniLED\StartUp\Data\141031\WINDV FLEX 1W 4K 90.jdt			
Lamp flux (lm)	55	Operator	Current (A)	0.047	
Total flux (lm)	55	Date	Power Factor	1	2014-10-31 오후 4:07:52

Illuminance Cone Diagram



Luminaire

Lamp

Report

20141031-0010

No. of lamps	1	Voltage (V)	24	Filename	C:\Program Files\JNCTECH\GoniLED\StartUp\Data\141031\WINDV FLEX 1W 4K 90.jdt
Lamp flux (lm)	55	Current (A)	0.047	Operator	
Total flux (lm)	55	Power Factor	1	Date	2014-10-31 오후 4:07:52

Coefficient of Utilization

Refl. Ceiling (%)	80%	80%	80%	70%	70%	70%	70%	50%	50%	50%	30%	30%	30%	10%	10%	10%	0%
Refl. Wall (%)	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0%	
Eff. Floor Cavity Refl.	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	20%	
Room CR 0	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	0.00	
Room CR 1	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	0.00	
Room CR 2	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	0.00	
Room CR 3	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	0.00	
Room CR 4	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	0.00	
Room CR 5	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	0.00	
Room CR 6	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	0.00	
Room CR 7	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	0.00	
Room CR 8	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	0.00	
Room CR 9	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	0.00	
Room CR 10	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	0.00	