Shenzhen Belling Efficiency Testing Laboratory Co.,Ltd.
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Client:
LumCAT: LL6SR-5CCT-3000K
Luminaire:
Report No:
Ballast type:

Test No:	Voltage(V): 120.07
LampCAT:	Current(A): 0.1370
Lamp flux(lm): -1.0	Power (W): 16.29
Number of Lamps: 1	PF: 0.9872
Length(mm): 0	Width(mm): 0
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1095.72, Efficiency(%): 0.00% , Luminous Efficacy(lm/W): 67.27
Central intensity(cd): 437.589, Maximum intensity(cd): 438.436
Angle of maximum intensity: C=90.0 γ=5.0
Beam Angle(50%Imax): [C0/180]Total=102.2
[C90/270]Total=102.8
Field angle(10%Imax): [C0/180]Total=152.9
[C90/270]Total=153.0
Maximum s/h(1/2): C0_180=1.20 C90_270=1.23
Maximum s/h(1/4): C0_180=1.31 C90_270=1.33
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 0.00%
Up flux rate of LUM(%): 0.48%
Down flux rate of LUM(%): 99.52%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 82.777%

Equipment: GMS-3000	Date:	Operator: Sam
Temperature(°C): 25	Humidity(%): 58%	

LL6SR-5CCT-3000K

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	437.589	0.000	0	0.00%	0.00%
5.0	435.102	10.433	10.433	0.00%	0.95%
10.0	428.010	30.876	41.309	0.00%	3.77%
15.0	416.207	50.078	91.387	0.00%	8.34%
20.0	399.800	67.250	158.638	0.00%	14.48%
25.0	378.286	81.607	240.245	0.00%	21.93%
30.0	353.384	92.593	332.838	0.00%	30.38%
35.0	324.805	99.868	432.706	0.00%	39.49%
40.0	293.499	103.159	535.866	0.00%	48.91%
45.0	260.050	102.494	638.36	0.00%	58.26%
50.0	226.045	98.223	736.582	0.00%	67.22%
55.0	190.585	90.589	827.172	0.00%	75.49%
60.0	154.807	79.836	907.008	0.00%	82.78%
65.0	118.844	66.525	973.533	0.00%	88.85%
70.0	84.072	51.380	1024.913	0.00%	93.54%
75.0	51.549	35.449	1060.363	0.00%	96.77%
80.0	22.626	19.847	1080.21	0.00%	98.58%
85.0	7.013	8.053	1088.263	0.00%	99.32%
90.0	1.032	2.203	1090.466	0.00%	99.52%
95.0	0.503	0.420	1090.886	0.00%	99.56%
100.0	0.450	0.259	1091.145	0.00%	99.58%
105.0	0.450	0.241	1091.386	0.00%	99.60%
110.0	0.635	0.284	1091.669	0.00%	99.63%
115.0	0.688	0.335	1092.004	0.00%	99.66%
120.0	0.767	0.354	1092.358	0.00%	99.69%
125.0	0.794	0.361	1092.719	0.00%	99.73%
130.0	0.953	0.380	1093.099	0.00%	99.76%
135.0	0.979	0.390	1093.489	0.00%	99.80%
140.0	1.085	0.382	1093.871	0.00%	99.83%
145.0	1.164	0.375	1094.247	0.00%	99.87%
150.0	1.244	0.355	1094.601	0.00%	99.90%
155.0	1.323	0.325	1094.926	0.00%	99.93%
160.0	1.297	0.275	1095.201	0.00%	99.95%
165.0	1.323	0.216	1095.417	0.00%	99.97%
170.0	1.455	0.165	1095.581	0.00%	99.99%
175.0	1.429	0.103	1095.685	0.00%	100.00%
180.0	1.576	0.036	1095.721	0.00%	100.00%

Zonal flux distribution table

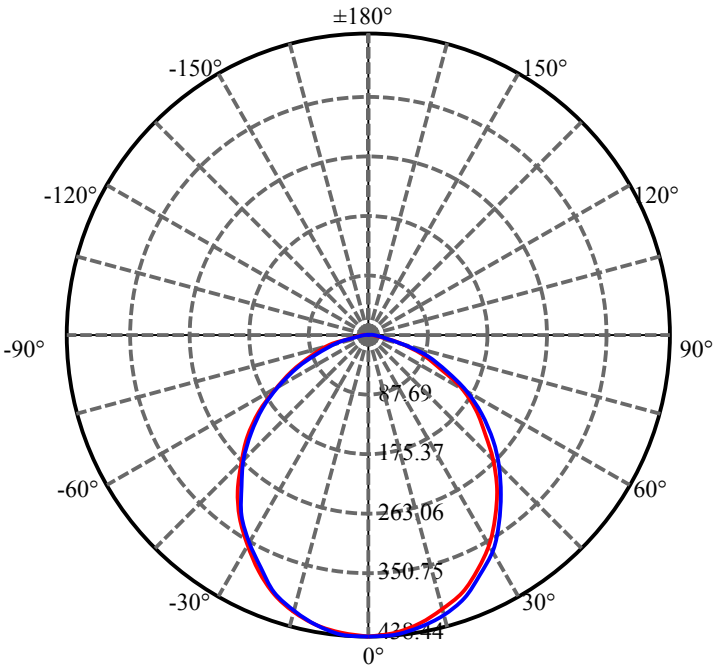
ZONAL LUMEN SUMMARY

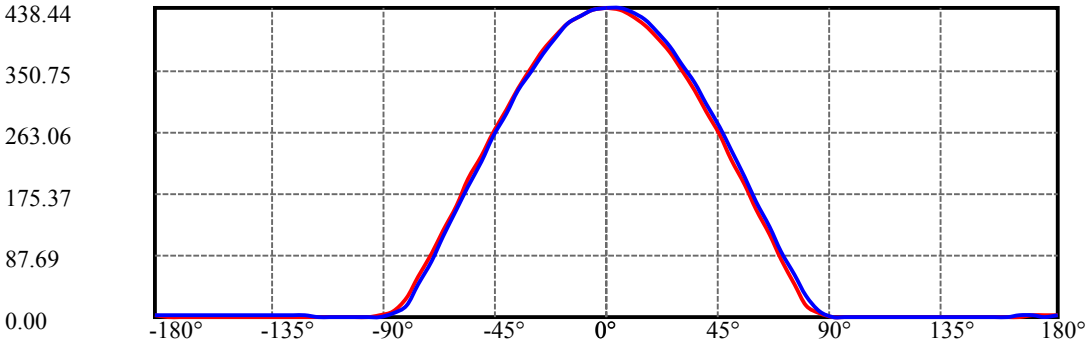
Zone	Lumens	%Lamp	%Fixt
0-30	332.84	N.A.	30.38%
0-40	535.87	N.A.	48.91%
0-60	907.01	N.A.	82.78%
0-90	1090.47	N.A.	99.52%
0-120	1092.36	N.A.	99.69%
0-180	1095.72	N.A.	100.00%
60-90	183.46	N.A.	16.74%
90-120	1.89	N.A.	0.17%
90-130	2.63	N.A.	0.24%
90-150	4.14	N.A.	0.38%
90-180	5.22	N.A.	0.48%
0-58.09	876.58	N.A.	80.00%

ZONAL LUMEN SUMMARY

0-10	41.31
10-20	117.33
20-30	174.20
30-40	203.03
40-50	200.72
50-60	170.43
60-70	117.91
70-80	55.30
80-90	10.26
90-100	0.68
100-110	0.52
110-120	0.69
120-130	0.74
130-140	0.77
140-150	0.73
150-160	0.60
160-170	0.38
170-180	0.10

Light Distribution Curve [Unit:cd]





C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:77.3 Right:75.6

:C90/270Left:75.4 Right:77.6

Beam Angle(50%Imax):C0/180Left:51.4 Right:50.8

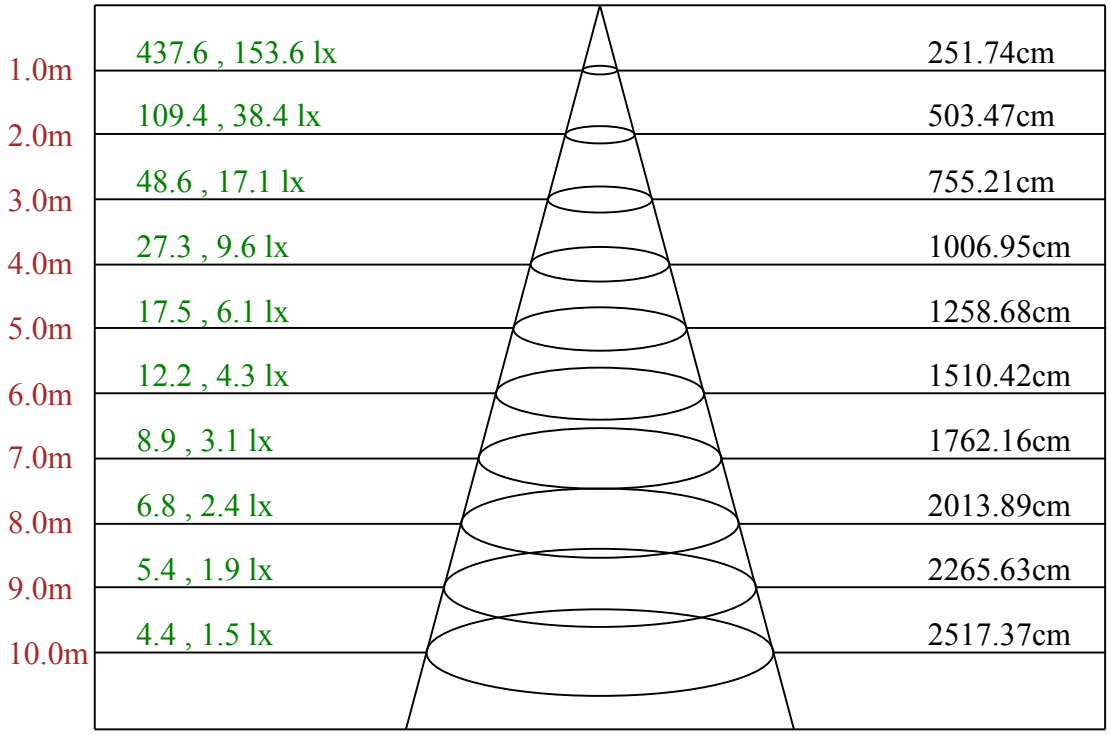
:C90/270Left:50.4 Right:52.4

Equipment: GMS-3000 Date: Operator: Sam

Temperature(°C): 25 Humidity(%): 58%

LL6SR-5CCT-3000K

Lux distance Curve



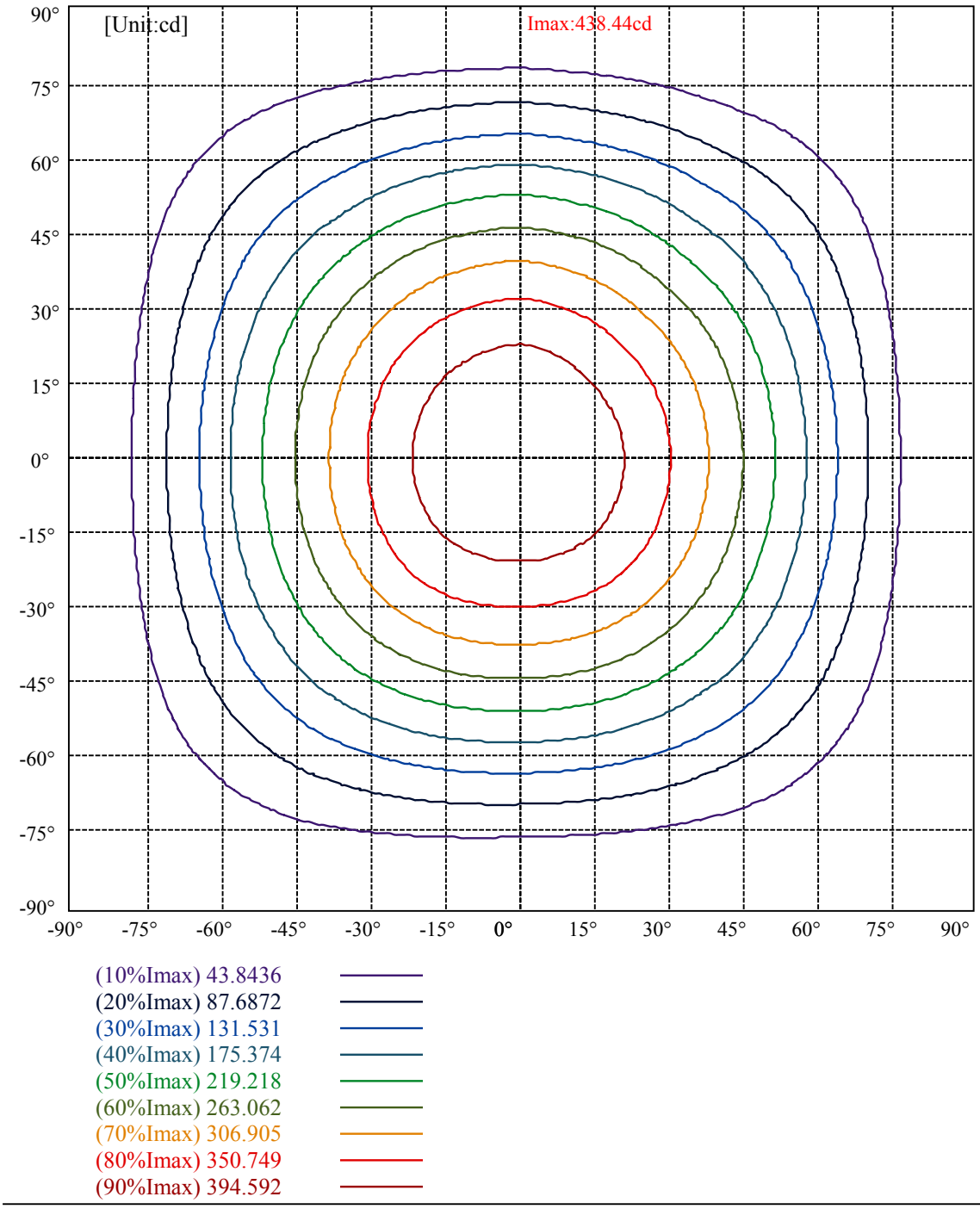
Max , Ave

Beam angle of C90 plane 103.07

Equipment: GMS-3000 Date: Operator: Sam

Temperature(°C): 25 Humidity(%): 58%

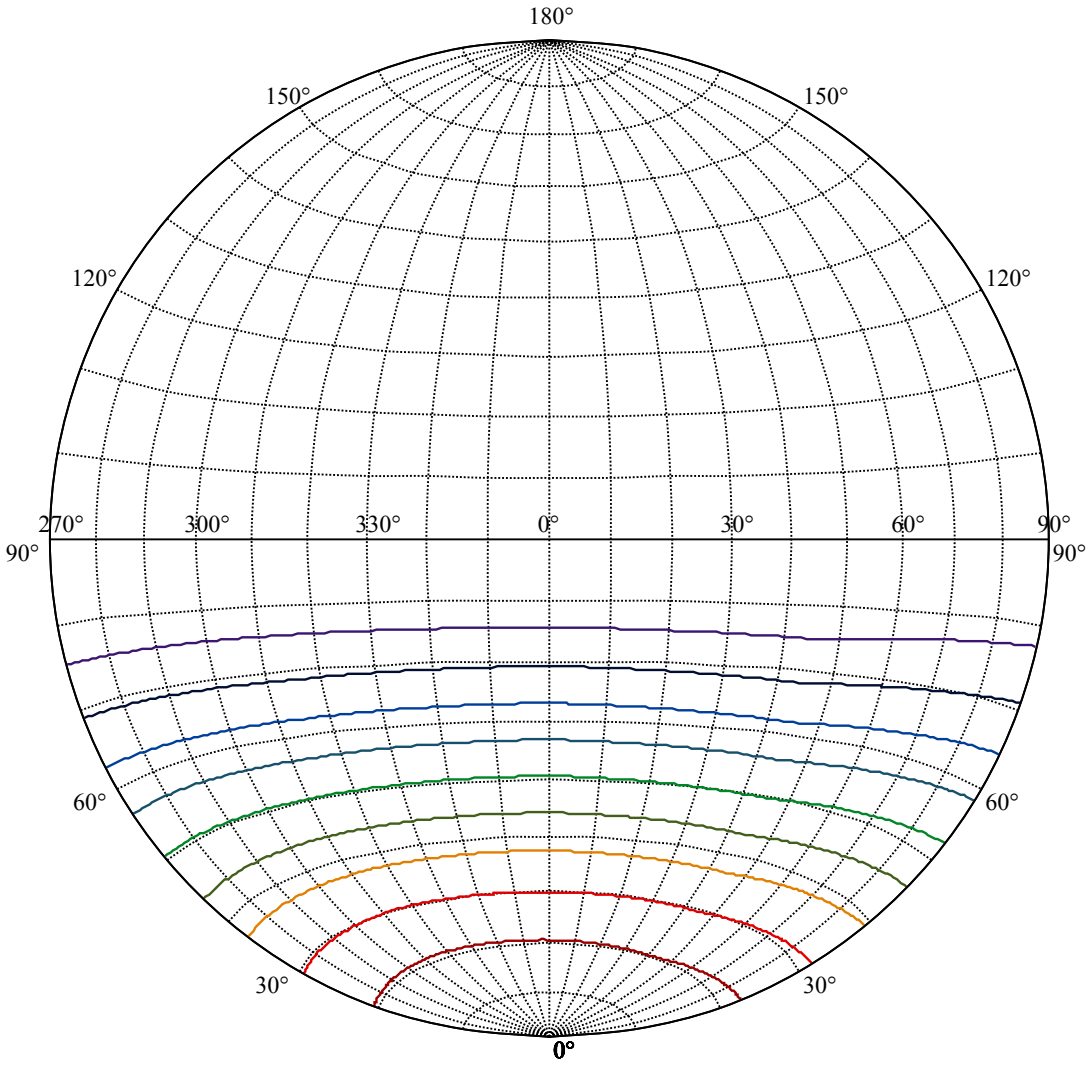
ISO-Intensity(V-H)



(10%Imax) 43.8436
(20%Imax) 87.6872
(30%Imax) 131.531
(40%Imax) 175.374
(50%Imax) 219.218
(60%Imax) 263.062
(70%Imax) 306.905
(80%Imax) 350.749
(90%Imax) 394.592

Equipment: GMS-3000 Date: Operator: Sam
Temperature(°C): 25 Humidity(%): 58%

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:438.44

(10%Imax) 43.8436
(20%Imax) 87.6872
(30%Imax) 131.531
(40%Imax) 175.374
(50%Imax) 219.218
(60%Imax) 263.062
(70%Imax) 306.905
(80%Imax) 350.749
(90%Imax) 394.592

Intensity data(cd)

C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	437.59	434.63	426.58	414.51	397.58	375.77	350.16	322.21	291.73
45.0	437.59	432.51	424.68	412.61	395.46	373.87	348.89	319.25	286.43
90.0	437.59	438.44	432.30	421.29	405.83	384.03	360.32	332.80	301.89
135.0	437.59	435.47	428.70	417.48	401.60	381.91	356.93	327.50	296.81
180.0	437.59	435.05	428.70	416.63	400.97	378.52	352.70	325.39	294.90
225.0	437.59	433.57	427.64	416.63	400.97	381.06	357.78	328.14	296.60
270.0	437.59	436.32	428.27	415.36	397.15	373.02	348.46	320.09	288.55
315.0	437.59	434.84	427.22	415.15	398.85	378.10	351.85	323.06	291.09
360.0	437.59	434.63	426.58	414.51	397.58	375.77	350.16	322.21	291.73

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	258.49	224.19	189.26	153.48	117.92	82.35	47.42	17.15	5.72
45.0	253.20	217.63	182.70	146.08	109.66	74.73	43.40	17.36	5.08
90.0	268.44	236.90	200.06	163.86	127.87	92.94	59.70	28.79	8.26
135.0	262.94	228.00	192.01	156.66	120.25	85.95	54.83	26.89	8.26
180.0	261.66	228.22	194.77	159.20	123.42	90.19	58.01	27.31	8.26
225.0	263.36	229.49	193.92	157.72	122.79	88.07	56.10	27.95	9.10
270.0	255.10	221.86	186.51	151.37	114.95	80.24	46.15	16.09	5.72
315.0	257.22	222.08	185.45	150.10	113.90	78.12	46.79	19.48	5.72
360.0	258.49	224.19	189.26	153.48	117.92	82.35	47.42	17.15	5.72

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.64	0.64	0.64	0.64	0.64	0.85	0.64	0.85	1.06
45.0	0.42	0.42	0.64	0.42	0.64	0.85	0.85	0.64	1.06
90.0	1.27	0.42	0.21	0.42	0.64	0.64	0.85	0.42	0.85
135.0	0.64	0.00	0.00	0.42	0.21	0.21	0.42	0.85	0.64
180.0	1.48	0.21	0.21	0.00	0.42	0.42	0.42	0.64	0.85
225.0	1.91	0.00	0.00	0.00	0.42	0.42	0.42	0.42	0.64
270.0	1.27	1.27	1.27	1.06	1.27	1.27	1.48	1.69	1.48
315.0	0.64	1.06	0.64	0.64	0.85	0.85	1.06	0.85	1.06
360.0	0.64	0.64	0.64	0.64	0.64	0.85	0.64	0.85	1.06

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.85	1.06	1.27	1.27	1.27	1.27	1.27	1.48	1.48
45.0	1.06	1.27	1.27	1.27	1.27	1.06	1.27	1.48	1.48
90.0	0.85	1.06	1.27	1.27	1.27	1.27	1.48	1.48	1.27
135.0	0.64	0.85	0.85	1.06	1.06	1.06	1.06	1.27	1.27
180.0	0.85	0.85	1.06	1.27	1.06	1.27	1.27	1.27	1.27
225.0	0.64	0.85	0.85	0.85	1.27	1.27	1.06	1.27	1.27
270.0	1.69	1.48	1.48	1.69	1.91	1.91	1.91	1.91	1.91
315.0	1.27	1.27	1.27	1.27	1.48	1.27	1.27	1.48	1.48
360.0	0.85	1.06	1.27	1.27	1.27	1.27	1.27	1.48	1.48

C/γ(°)	180.0
0.0	1.58
45.0	1.58
90.0	1.58
135.0	1.58
180.0	1.58
225.0	1.58
270.0	1.58
315.0	1.58
360.0	1.58