ShenZhen Sanwen Optoelectronics Co.,ltd

LumCAT: 5075LS40W12
Luminaire:
Report No:
Test No:
LampCAT:
Lamp flux(lm)
Number of Lamps: 1
Length(mm): 1190
Phm Type: C

Voltage(V): 220.0900
Current(A): 0.1860
Power (W): 39.6400
PF: 0.9695
Ballast type:
Width(mm): 50
Height(mm): 0

Photometric Results

Lumens(lm): 3568.81
Lumens(lm)/Power(W): 90.03
Central intensity(cd): 1160.692
Maximum intensity(cd): 1172.434
Angle of maximum intensity: C=0.0 γ=1.0
Beam Angle(50%Imax): [C0/180]Total=113.6
[C90/270]Total=107.0
Field angle(10%Imax): [C0/180]Total=174.0
[C90/270]Total=158.2
Maximum s/h(1/2): C0_180=1.25 C90_270=1.21
Maximum s/h(1/4): C0_180=1.37 C90_270=1.33
Up flux rate of LUM(%): 7.04%
Down flux rate of LUM(%): 92.96%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 71.365%

Equipment:
Temperature(°C): 25.3

Date: 2018-7-25
Humidity(%): 57.0%

Operator: Dick
Distance(m): 15.17

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1160.692	.000	.000	.000%	.000%
1.0	1161.900	1.111	1.111	.031%	.031%
2.0	1161.296	3.334	4.446	.093%	.125%
3.0	1160.202	5.552	9.998	.156%	.280%
4.0	1158.591	7.762	17.760	.217%	.498%
5.0	1156.432	9.959	27.719	.279%	.777%
6.0	1154.187	12.143	39.862	.340%	1.117%
7.0	1151.136	14.309	54.171	.401%	1.518%
8.0	1147.596	16.452	70.623	.461%	1.979%
9.0	1143.682	18.571	89.193	.520%	2.499%
10.0	1139.278	20.661	109.855	.579%	3.078%
11.0	1134.242	22.717	132.572	.637%	3.715%
12.0	1128.658	24.737	157.309	.693%	4.408%
13.0	1122.931	26.721	184.029	.749%	5.157%
14.0	1117.059	28.672	212.701	.803%	5.960%
15.0	1109.634	30.569	243.270	.857%	6.817%
16.0	1101.978	32.406	275.676	.908%	7.725%
17.0	1094.351	34.203	309.879	.958%	8.683%
18.0	1086.321	35.955	345.834	1.007%	9.690%
19.0	1077.715	37.650	383.484	1.055%	10.745%
20.0	1069.081	39.292	422.776	1.101%	11.846%
21.0	1059.151	40.866	463.642	1.145%	12.992%
22.0	1049.653	42.377	506.020	1.187%	14.179%
23.0	1038.832	43.822	549.842	1.228%	15.407%
24.0	1028.557	45.201	595.042	1.267%	16.673%
25.0	1017.793	46.530	641.572	1.304%	17.977%
26.0	1006.107	47.774	689.346	1.339%	19.316%
27.0	994.998	48.957	738.303	1.372%	20.688%
28.0	983.111	50.082	788.385	1.403%	22.091%
29.0	970.994	51.125	839.510	1.433%	23.524%
30.0	958.129	52.086	891.596	1.459%	24.983%
31.0	945.782	52.983	944.579	1.485%	26.468%
32.0	932.427	53.808	998.387	1.508%	27.975%
33.0	919.188	54.549	1052.937	1.529%	29.504%
34.0	905.718	55.227	1108.164	1.547%	31.051%
35.0	892.278	55.839	1164.003	1.565%	32.616%
36.0	878.146	56.371	1220.373	1.580%	34.196%
37.0	864.446	56.834	1277.207	1.593%	35.788%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	850.170	57.232	1334.438	1.604%	37.392%
39.0	835.492	57.536	1391.975	1.612%	39.004%
40.0	820.641	57.760	1449.735	1.618%	40.622%
41.0	805.703	57.913	1507.648	1.623%	42.245%
42.0	790.881	58.007	1565.655	1.625%	43.871%
43.0	775.483	58.023	1623.677	1.626%	45.496%
44.0	760.488	57.972	1681.649	1.624%	47.121%
45.0	745.435	57.874	1739.524	1.622%	48.742%
46.0	729.606	57.686	1797.209	1.616%	50.359%
47.0	713.718	57.405	1854.614	1.609%	51.967%
48.0	698.119	57.074	1911.688	1.599%	53.567%
49.0	681.915	56.672	1968.360	1.588%	55.155%
50.0	665.395	56.174	2024.534	1.574%	56.729%
51.0	649.910	55.649	2080.182	1.559%	58.288%
52.0	633.764	55.083	2135.266	1.543%	59.831%
53.0	617.071	54.411	2189.677	1.525%	61.356%
54.0	601.097	53.692	2243.369	1.504%	62.860%
55.0	584.289	52.914	2296.282	1.483%	64.343%
56.0	567.596	52.050	2348.333	1.458%	65.802%
57.0	550.787	51.135	2399.468	1.433%	67.234%
58.0	533.979	50.163	2449.631	1.406%	68.640%
59.0	517.631	49.163	2498.795	1.378%	70.018%
60.0	500.535	48.102	2546.896	1.348%	71.365%
61.0	482.576	46.916	2593.813	1.315%	72.680%
62.0	465.509	45.684	2639.497	1.280%	73.960%
63.0	449.132	44.484	2683.980	1.246%	75.207%
64.0	431.547	43.215	2727.195	1.211%	76.418%
65.0	413.789	41.835	2769.030	1.172%	77.590%
66.0	396.376	40.422	2809.452	1.133%	78.722%
67.0	378.963	38.986	2848.438	1.092%	79.815%
68.0	361.349	37.502	2885.940	1.051%	80.866%
69.0	344.368	36.002	2921.942	1.009%	81.874%
70.0	326.207	34.440	2956.382	.965%	82.839%
71.0	308.420	32.801	2989.183	.919%	83.759%
72.0	291.094	31.173	3020.355	.873%	84.632%
73.0	273.940	29.547	3049.903	.828%	85.460%
74.0	256.384	27.880	3077.783	.781%	86.241%
75.0	240.007	26.227	3104.010	.735%	86.976%

Equipment:
Temperature(°C): 25.3
Date: 2018-7-25
Humidity(%): 57.0%
Operator: Dick
Distance(m): 15.17

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	223.256	24.592	3128.602	.689%	87.665%
77.0	206.707	22.924	3151.526	.642%	88.308%
78.0	190.359	21.255	3172.781	.596%	88.903%
79.0	174.443	19.601	3192.382	.549%	89.452%
80.0	159.563	18.007	3210.389	.505%	89.957%
81.0	143.791	16.405	3226.794	.460%	90.417%
82.0	129.602	14.826	3241.620	.415%	90.832%
83.0	115.125	13.304	3254.924	.373%	91.205%
84.0	104.102	11.943	3266.867	.335%	91.539%
85.0	92.359	10.722	3277.589	.300%	91.840%
86.0	82.574	9.562	3287.151	.268%	92.108%
87.0	74.025	8.570	3295.722	.240%	92.348%
88.0	67.291	7.741	3303.463	.217%	92.565%
89.0	63.319	7.159	3310.622	.201%	92.765%
90.0	61.275	6.831	3317.453	.191%	92.957%
91.0	60.210	6.661	3324.114	.187%	93.144%
92.0	59.548	6.564	3330.678	.184%	93.327%
93.0	58.771	6.481	3337.159	.182%	93.509%
94.0	58.138	6.398	3343.558	.179%	93.688%
95.0	57.591	6.326	3349.884	.177%	93.866%
96.0	56.958	6.252	3356.135	.175%	94.041%
97.0	56.411	6.176	3362.312	.173%	94.214%
98.0	55.778	6.099	3368.410	.171%	94.385%
99.0	55.203	6.018	3374.429	.169%	94.553%
100.0	54.684	5.943	3380.371	.167%	94.720%
101.0	54.138	5.867	3386.238	.164%	94.884%
102.0	53.533	5.785	3392.023	.162%	95.046%
103.0	53.044	5.705	3397.729	.160%	95.206%
104.0	52.526	5.629	3403.357	.158%	95.364%
105.0	51.979	5.548	3408.905	.155%	95.519%
106.0	51.403	5.462	3414.367	.153%	95.673%
107.0	50.885	5.378	3419.745	.151%	95.823%
108.0	50.338	5.293	3425.038	.148%	95.972%
109.0	49.792	5.206	3430.244	.146%	96.117%
110.0	49.130	5.113	3435.357	.143%	96.261%
111.0	48.583	5.018	3440.375	.141%	96.401%
112.0	48.007	4.928	3445.303	.138%	96.539%
113.0	47.288	4.827	3450.130	.135%	96.675%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	46.683	4.725	3454.855	.132%	96.807%
115.0	46.194	4.634	3459.490	.130%	96.937%
116.0	45.532	4.539	3464.029	.127%	97.064%
117.0	44.870	4.436	3468.465	.124%	97.188%
118.0	44.294	4.337	3472.802	.122%	97.310%
119.0	43.690	4.240	3477.041	.119%	97.429%
120.0	43.028	4.138	3481.179	.116%	97.545%
121.0	42.308	4.032	3485.211	.113%	97.658%
122.0	41.704	3.928	3489.139	.110%	97.768%
123.0	40.956	3.822	3492.961	.107%	97.875%
124.0	40.294	3.715	3496.676	.104%	97.979%
125.0	39.603	3.610	3500.286	.101%	98.080%
126.0	38.970	3.507	3503.794	.098%	98.178%
127.0	38.135	3.398	3507.192	.095%	98.274%
128.0	37.560	3.293	3510.485	.092%	98.366%
129.0	36.782	3.190	3513.675	.089%	98.455%
130.0	36.034	3.081	3516.756	.086%	98.541%
131.0	35.343	2.976	3519.732	.083%	98.625%
132.0	34.681	2.876	3522.608	.081%	98.705%
133.0	33.933	2.774	3525.381	.078%	98.783%
134.0	33.185	2.669	3528.051	.075%	98.858%
135.0	32.350	2.563	3530.614	.072%	98.930%
136.0	31.659	2.460	3533.074	.069%	98.999%
137.0	30.940	2.363	3535.437	.066%	99.065%
138.0	30.249	2.267	3537.703	.064%	99.128%
139.0	29.443	2.169	3539.872	.061%	99.189%
140.0	28.695	2.070	3541.942	.058%	99.247%
141.0	27.889	1.973	3543.916	.055%	99.303%
142.0	27.342	1.885	3545.801	.053%	99.355%
143.0	26.536	1.798	3547.599	.050%	99.406%
144.0	25.702	1.704	3549.303	.048%	99.453%
145.0	24.953	1.613	3550.916	.045%	99.499%
146.0	24.061	1.522	3552.438	.043%	99.541%
147.0	23.284	1.433	3553.871	.040%	99.581%
148.0	22.478	1.348	3555.219	.038%	99.619%
149.0	21.787	1.268	3556.487	.036%	99.655%
150.0	20.838	1.186	3557.673	.033%	99.688%
151.0	20.061	1.104	3558.777	.031%	99.719%

Zonal flux distribution table

γ(°)	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	19.255	1.029	3559.806	.029%	99.748%
153.0	18.449	.955	3560.760	.027%	99.775%
154.0	17.585	.882	3561.642	.025%	99.799%
155.0	16.808	.812	3562.454	.023%	99.822%
156.0	16.031	.747	3563.200	.021%	99.843%
157.0	15.312	.685	3563.886	.019%	99.862%
158.0	14.448	.624	3564.510	.017%	99.880%
159.0	13.757	.567	3565.077	.016%	99.895%
160.0	12.980	.513	3565.591	.014%	99.910%
161.0	12.232	.461	3566.052	.013%	99.923%
162.0	11.541	.414	3566.466	.012%	99.934%
163.0	10.620	.365	3566.831	.010%	99.945%
164.0	10.073	.322	3567.153	.009%	99.954%
165.0	9.268	.283	3567.437	.008%	99.962%
166.0	8.548	.245	3567.681	.007%	99.968%
167.0	8.059	.213	3567.894	.006%	99.974%
168.0	7.339	.183	3568.077	.005%	99.980%
169.0	6.850	.155	3568.232	.004%	99.984%
170.0	6.188	.130	3568.362	.004%	99.988%
171.0	5.612	.107	3568.469	.003%	99.991%
172.0	5.094	.087	3568.555	.002%	99.993%
173.0	4.605	.069	3568.625	.002%	99.995%
174.0	4.317	.055	3568.680	.002%	99.996%
175.0	3.828	.043	3568.723	.001%	99.998%
176.0	3.425	.031	3568.754	.001%	99.999%
177.0	3.224	.022	3568.776	.001%	99.999%
178.0	3.252	.015	3568.792	.000%	100.000%
179.0	3.166	.009	3568.801	.000%	100.000%
180.0	2.993	.003	3568.804	.000%	100.000%

Zonal flux distribution table

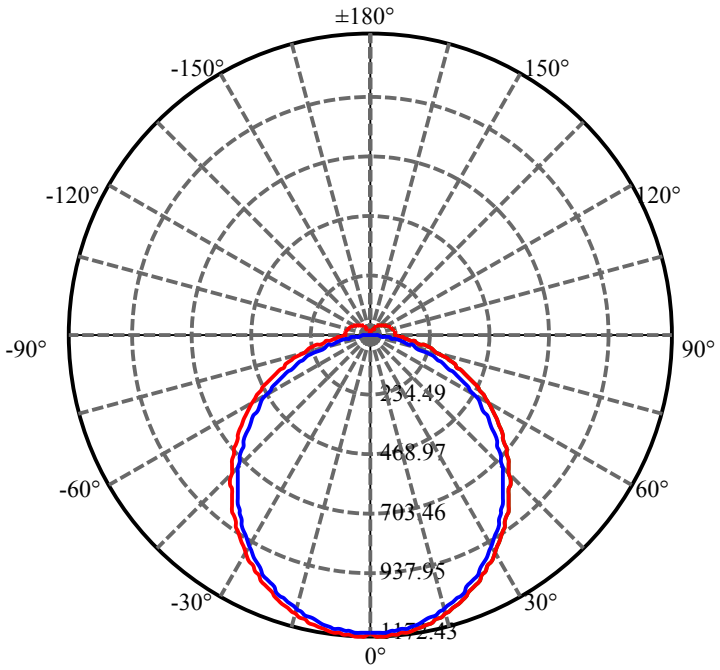
ZONAL LUMEN SUMMARY

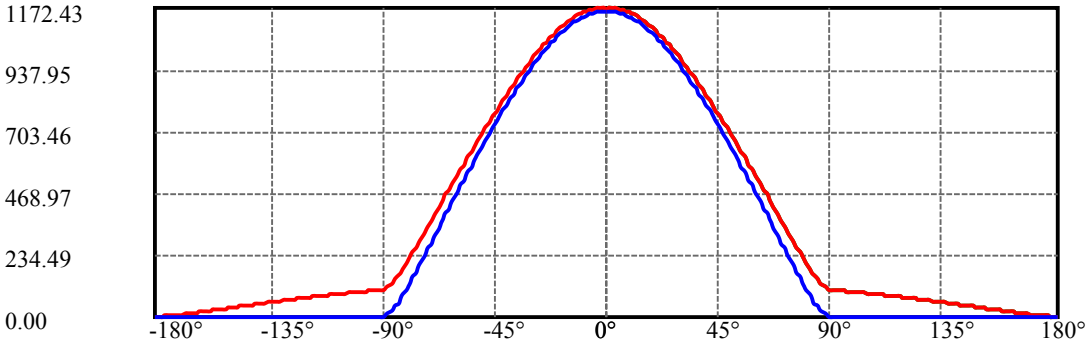
Zone	Lumens	%Fixt
0-30	891.60	24.98%
0-40	1449.74	40.62%
0-60	2546.90	71.37%
0-90	3317.45	92.96%
0-120	3481.18	97.54%
0-180	3568.80	100.00%
60-90	818.66	22.94%
90-120	170.56	4.78%
90-130	206.13	5.78%
90-150	247.05	6.92%
90-180	258.18	7.23%
0-67.18	2855.04	80.00%

ZONAL LUMEN SUMMARY

0-10	109.85
10-20	312.92
20-30	468.82
30-40	558.14
40-50	574.80
50-60	522.36
60-70	409.49
70-80	254.01
80-90	107.06
90-100	62.92
100-110	54.99
110-120	45.82
120-130	35.58
130-140	25.19
140-150	15.73
150-160	7.92
160-170	2.77
170-180	0.44

Light Distribution Curve [Unit:cd]





C0(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:87.0 Right:87.0

:C90/270Left:79.1 Right:79.1

Beam Angle(50%Imax):C0/180Left:56.8 Right:56.8

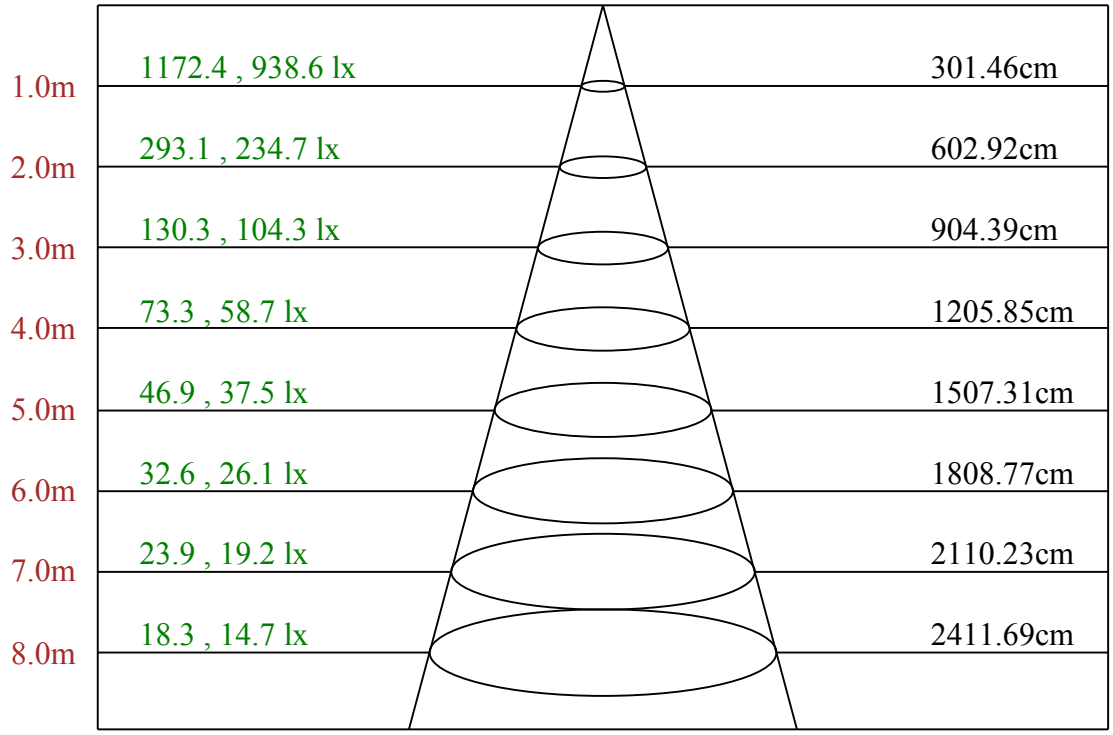
:C90/270Left:53.5 Right:53.5

Equipment:
Temperature(°C): 25.3

Date: 2018-7-25
Humidity(%): 57.0%

Operator: Dick
Distance(m): 15.17

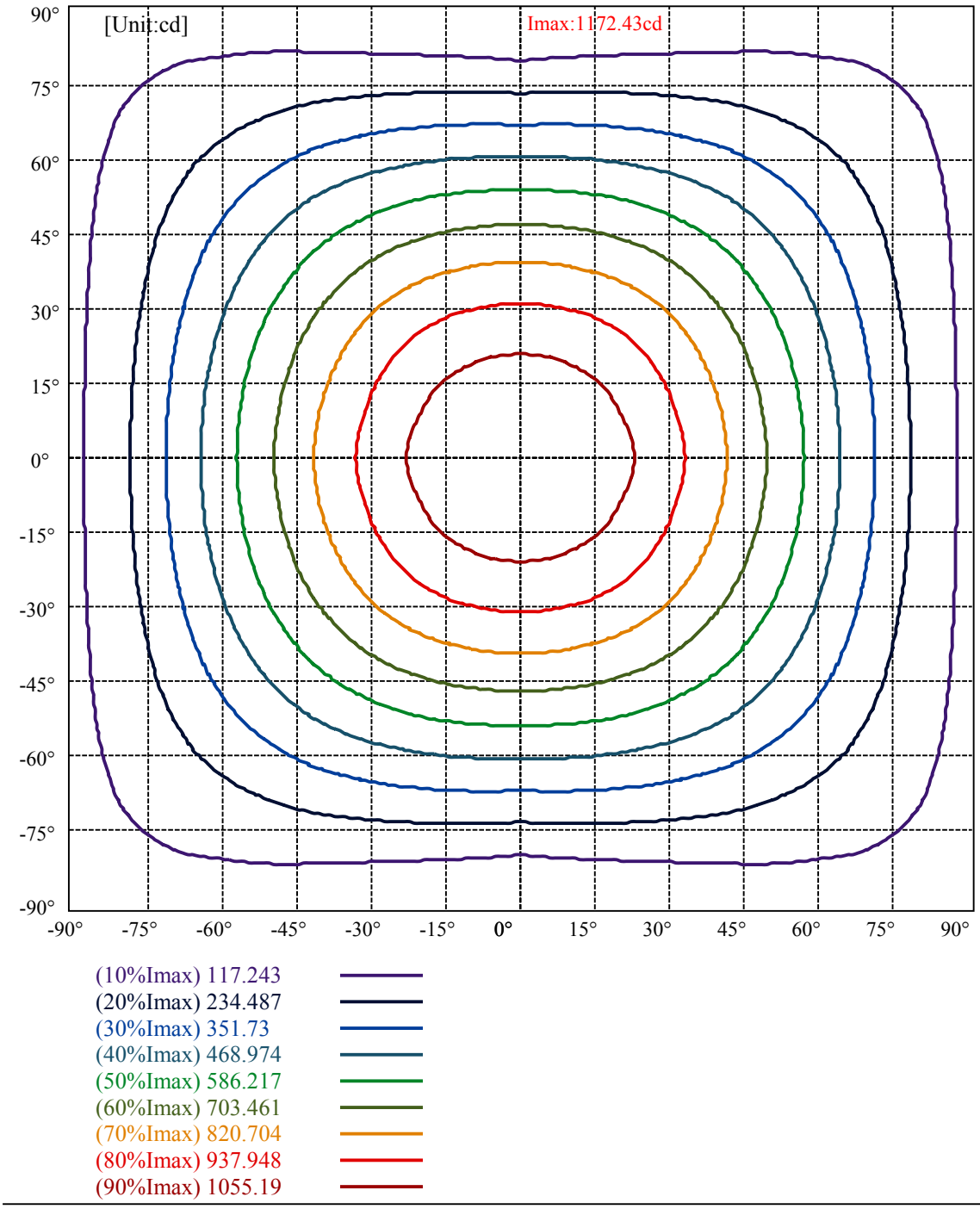
Lux distance Curve



Max , Ave

Beam angle of C0plane112.88

ISO-Intensity(V-H)



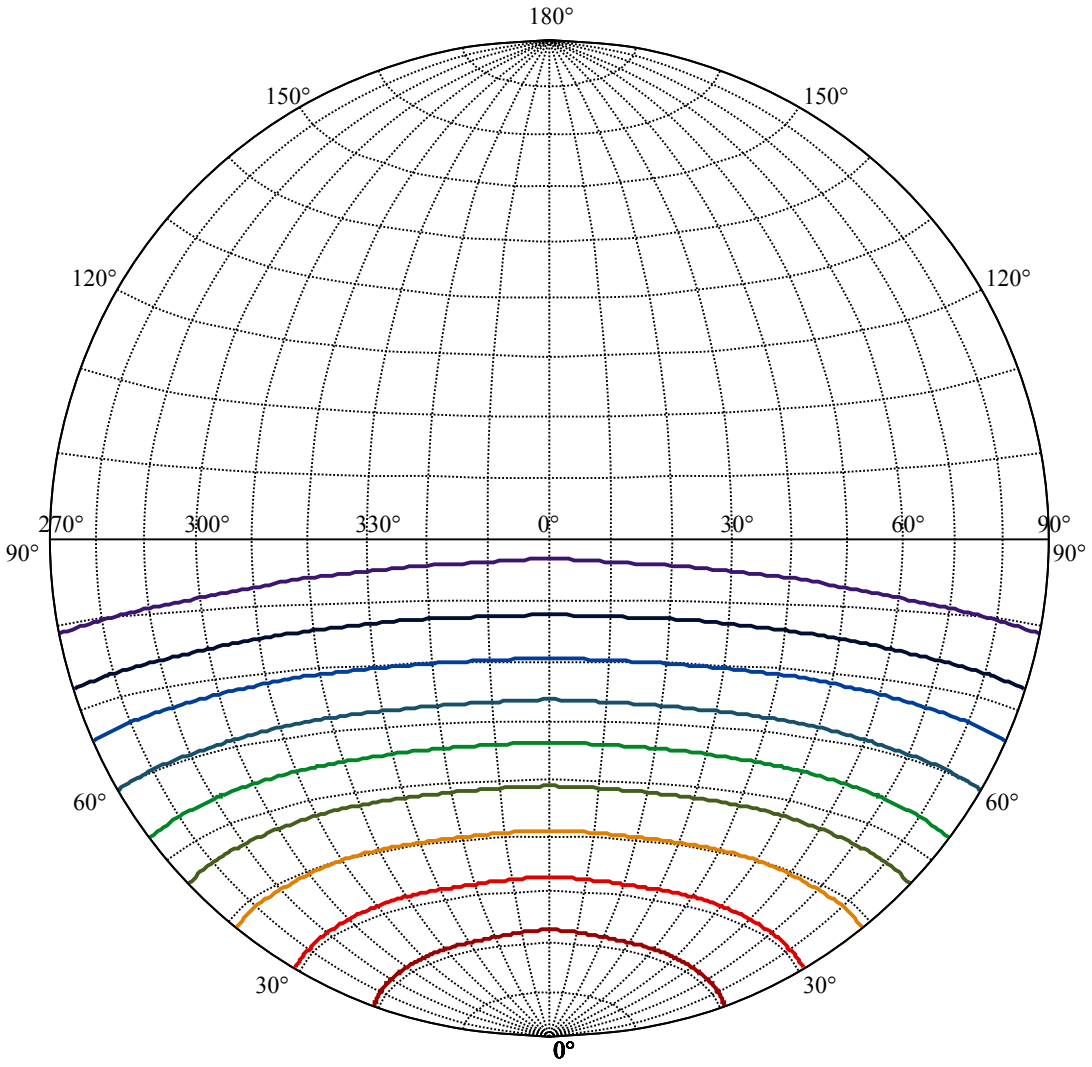
(10%Imax) 117.243
(20%Imax) 234.487
(30%Imax) 351.73
(40%Imax) 468.974
(50%Imax) 586.217
(60%Imax) 703.461
(70%Imax) 820.704
(80%Imax) 937.948
(90%Imax) 1055.19

Equipment:
Temperature(°C): 25.3

Date: 2018-7-25
Humidity(%): 57.0%

Operator: Dick
Distance(m): 15.17

ISO candela diagram on circular web



House [Unit:cd] Road

Imax:1172.43

(10%Imax) 117.243
(20%Imax) 234.487
(30%Imax) 351.73
(40%Imax) 468.974
(50%Imax) 586.217
(60%Imax) 703.461
(70%Imax) 820.704
(80%Imax) 937.948
(90%Imax) 1055.19

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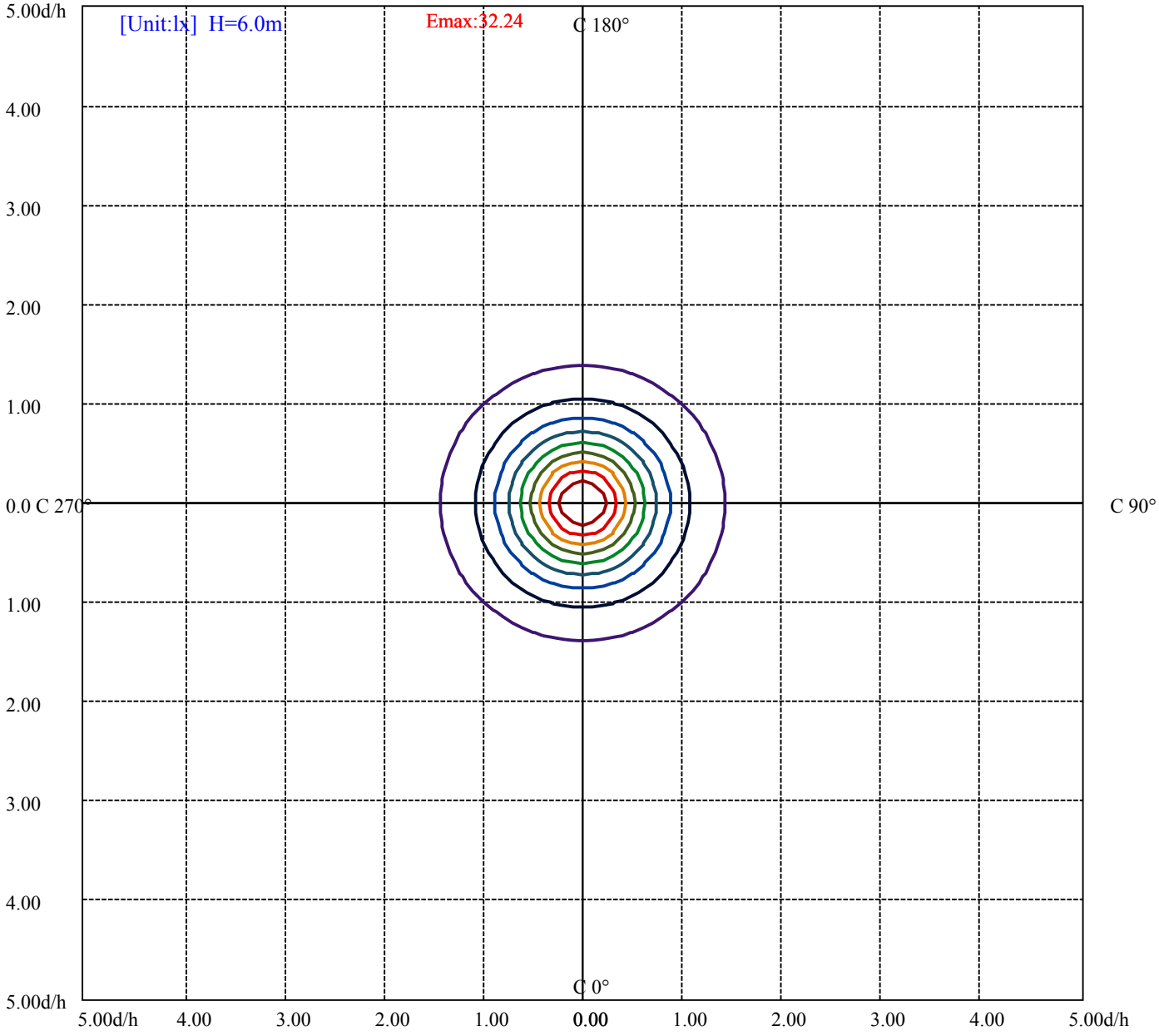
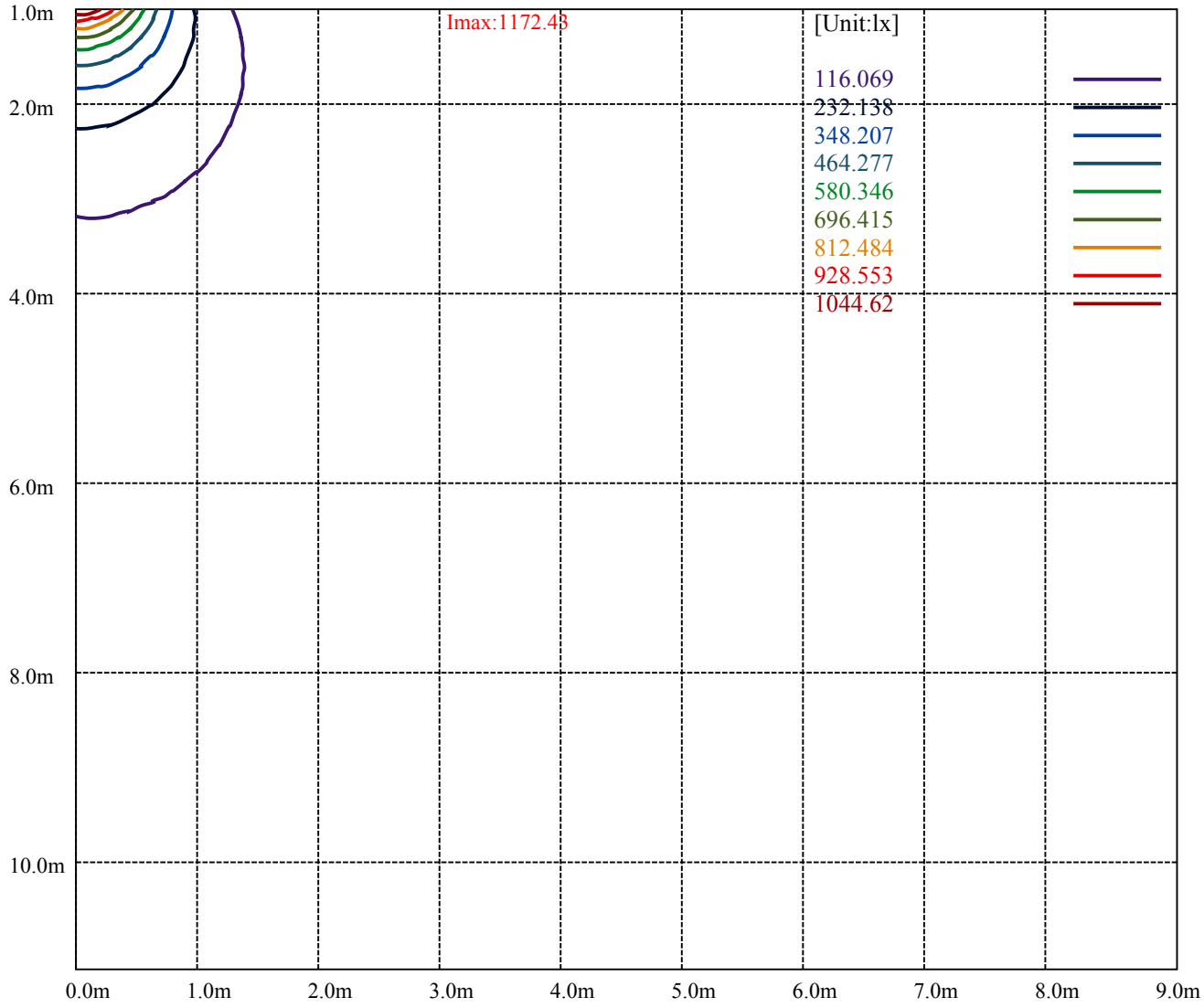
ISO illuminance diagram



(10%Emax) 3.224139
(20%Emax) 6.448278
(30%Emax) 9.672417
(40%Emax) 12.89658
(50%Emax) 16.12072
(60%Emax) 19.34486
(70%Emax) 22.569
(80%Emax) 25.79314
(90%Emax) 29.01722

Equipment:
Temperature(°C): 25.3
Date: 2018-7-25
Humidity(%): 57.0%
Operator: Dick
Distance(m): 15.17

Space ISO Lux diagram



Equipment:
Temperature(°C): 25.3

Date: 2018-7-25
Humidity(%): 57.0%

Operator: Dick
Distance(m): 15.17

Luminance Limitting Curve(no luminous side)

Luminance Table

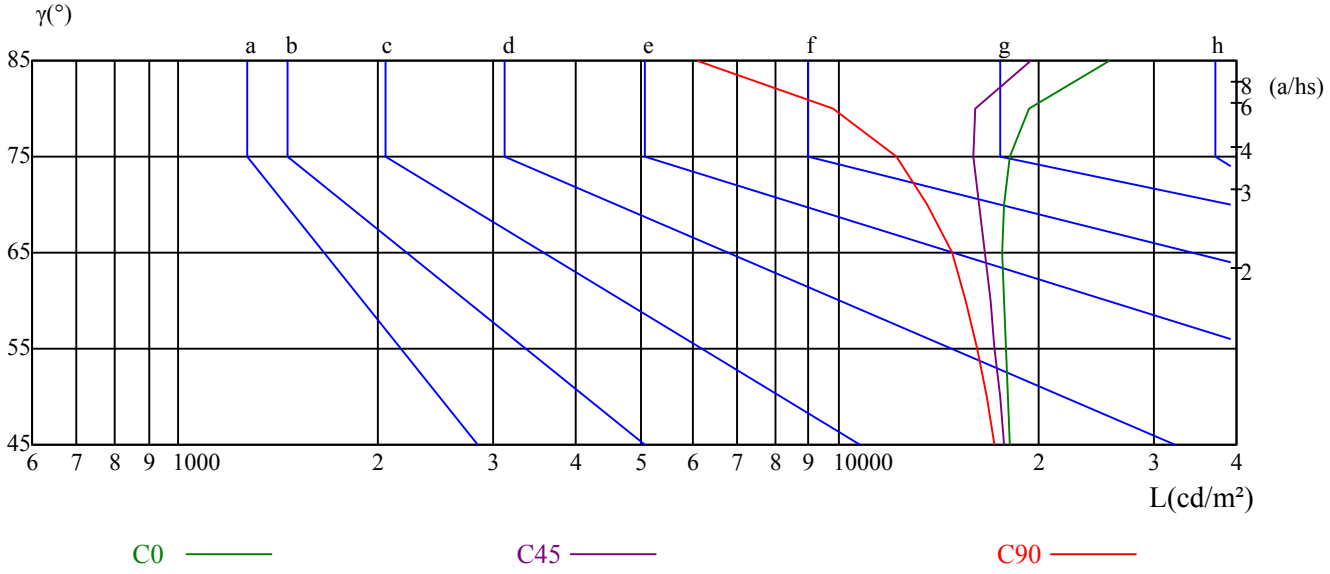
γ	45	50	55	60	65	70	75	80	85
C0	18197	18007	17913	17840	17654	17752	18091	19433	25663
C45	17792	17519	17191	16988	16656	16349	15968	16045	19492
C90	17212	16700	16192	15587	14825	13634	12215	9805	6083

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
17654	14825	16656	18091	12215	15968	25663	6083	19492

Glare Table

Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limitting Curve

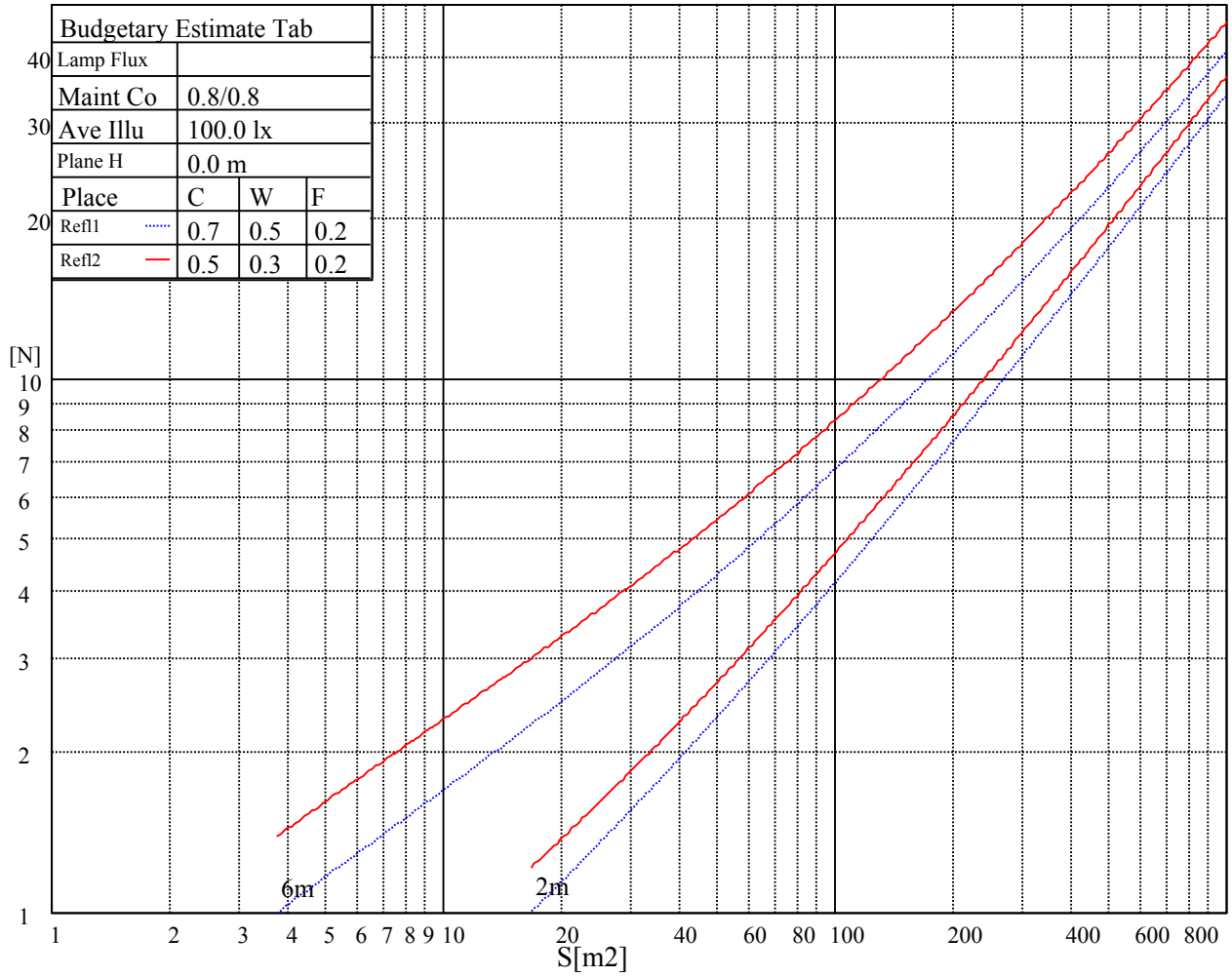


UGR Glare

Illumination assessment according UGR											
Rf of Ceiling		7	7	5	5	3	7	7	5	5	3
Rf of Wall		5	3	5	3	3	5	3	5	3	3
Rf of Floor		2	2	2	2	2	2	2	2	2	2
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	21.94	23.44	22.41	23.89	24.38	21.45	22.94	21.92	23.40	23.88
	3H	24.01	25.37	24.50	25.83	26.36	23.18	24.54	23.67	25.00	25.53
	4H	24.90	26.17	25.40	26.66	27.20	23.80	25.08	24.30	25.56	26.10
	6H	25.70	26.89	26.22	27.38	27.94	24.20	25.39	24.72	25.88	26.44
	8H	26.07	27.20	26.60	27.72	28.26	24.31	25.44	24.84	25.96	26.51
	12H	26.65	27.73	27.18	28.24	28.83	24.41	25.50	24.95	26.01	26.60
4H	2H	22.57	23.84	23.07	24.33	24.86	22.18	23.46	22.69	23.94	24.48
	3H	24.87	25.94	25.38	26.47	27.03	24.16	25.24	24.68	25.76	26.32
	4H	25.90	26.88	26.44	27.41	28.01	24.92	25.89	25.45	26.43	27.03
	6H	26.72	27.60	27.30	28.16	28.77	25.34	26.22	25.92	26.78	27.39
	8H	27.21	28.01	27.78	28.58	29.20	25.52	26.32	26.08	26.89	27.51
	12H	27.83	28.55	28.42	29.15	29.77	25.65	26.37	26.23	26.96	27.59
8H	4H	26.22	27.02	26.79	27.59	28.21	25.37	26.17	25.93	26.73	27.35
	6H	27.26	28.47	27.86	28.54	29.16	26.00	27.21	26.59	27.27	27.90
	8H	27.86	28.46	28.47	29.08	29.72	26.26	26.86	26.87	27.47	28.11
	12H	28.89	29.42	29.50	30.46	30.74	26.90	27.43	27.51	28.47	28.74
12H	4H	26.25	26.97	26.84	27.57	28.19	25.45	26.17	26.04	26.77	27.39
	6H	28.29	27.95	27.97	28.53	29.22	27.11	26.77	26.78	27.35	28.03
	8H	28.02	28.55	28.63	29.15	29.86	26.49	27.03	27.10	27.63	28.34

Variation with the observer position at spacings:		
S = 1.0H	0.3/-0.6	0.2/-0.8
S = 1.5H	0.6/-0.6	0.5/-0.6
S = 2.0H	0.7/-0.8	0.5/-0.6
Standard tables:	BK4	BKBF
Uncorrected UGR	8.1	12.3

Budgetary Estimate Table



Equipment:
Temperature(°C): 25.3

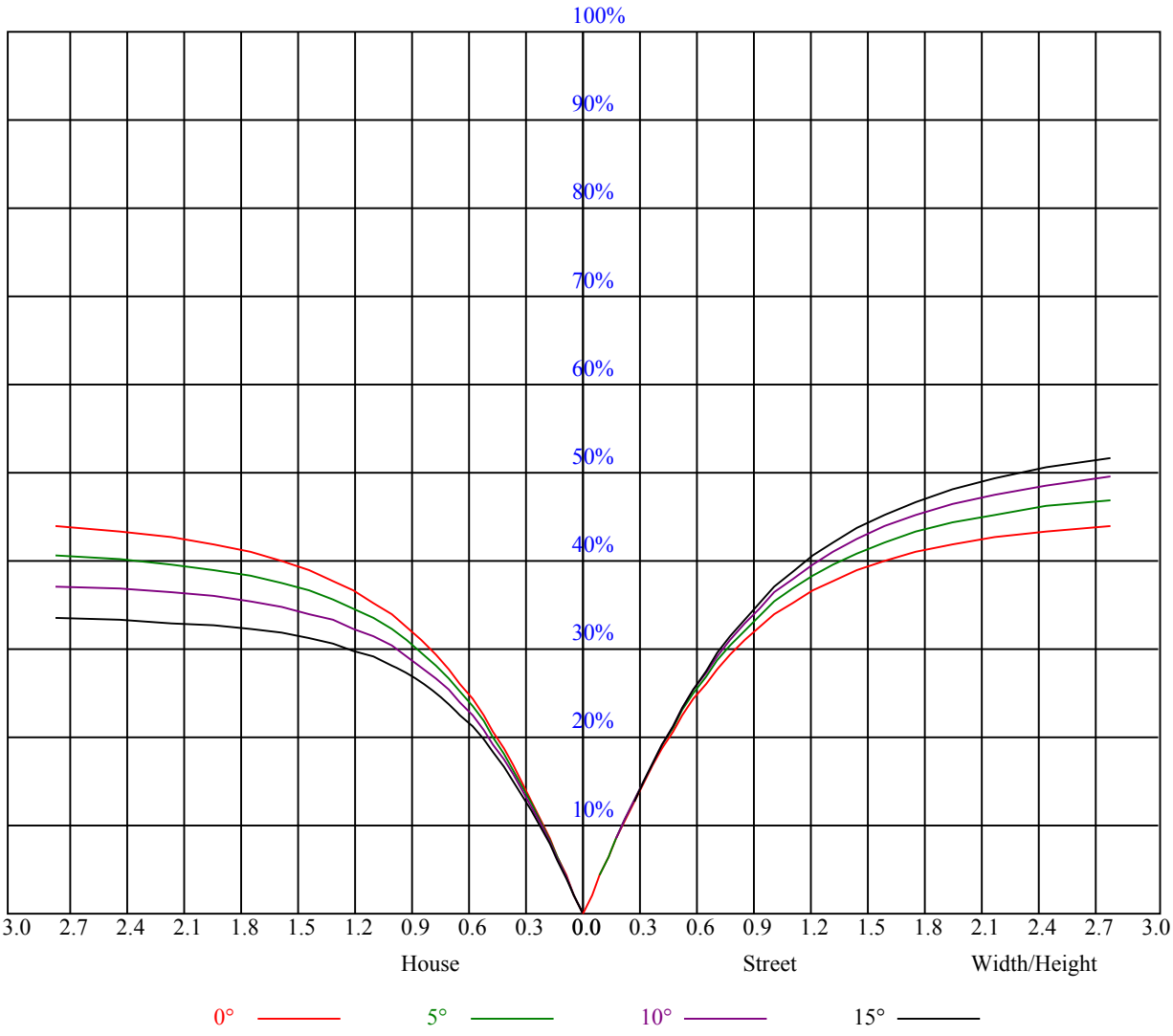
Date: 2018-7-25
Humidity(%): 57.0%

Operator: Dick
Distance(m): 15.17

Utilization factor table for indoor luminaire

RHOCC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	0.96	0.96	0.96	0.93
1	1.02	0.97	0.93	0.99	0.95	0.91	0.93	0.90	0.87	0.88	0.85	0.83	0.83	0.81	0.79	0.77
2	0.88	0.81	0.75	0.86	0.79	0.74	0.81	0.76	0.71	0.77	0.72	0.68	0.73	0.69	0.66	0.63
3	0.77	0.69	0.62	0.75	0.68	0.61	0.71	0.65	0.59	0.68	0.62	0.58	0.64	0.60	0.56	0.53
4	0.68	0.60	0.53	0.67	0.58	0.52	0.63	0.56	0.51	0.60	0.54	0.49	0.57	0.52	0.48	0.45
5	0.61	0.52	0.45	0.60	0.51	0.45	0.57	0.49	0.44	0.54	0.48	0.43	0.51	0.46	0.41	0.39
6	0.55	0.46	0.40	0.54	0.45	0.39	0.51	0.44	0.38	0.49	0.42	0.37	0.47	0.41	0.36	0.34
7	0.50	0.41	0.35	0.49	0.40	0.35	0.46	0.39	0.34	0.44	0.38	0.33	0.43	0.37	0.32	0.30
8	0.45	0.37	0.31	0.44	0.36	0.31	0.43	0.35	0.30	0.41	0.34	0.30	0.39	0.33	0.29	0.27
9	0.42	0.33	0.28	0.41	0.33	0.28	0.39	0.32	0.27	0.38	0.31	0.27	0.36	0.30	0.26	0.24
10	0.38	0.31	0.25	0.38	0.30	0.25	0.36	0.29	0.25	0.35	0.29	0.24	0.33	0.28	0.24	0.22

Coefficient Utilization Curve



Equipment:
Temperature(°C): 25.3

Date: 2018-7-25
Humidity(%): 57.0%

Operator: Dick
Distance(m): 15.17

Intensity data(cd)

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	1160.69	1172.43	1171.97	1171.05	1169.90	1168.06	1165.53	1163.22	1160.46
22.5	1160.69	1160.23	1159.77	1158.85	1157.47	1155.63	1153.55	1150.33	1147.11
45.0	1160.69	1160.46	1159.77	1158.62	1157.01	1154.94	1152.86	1149.87	1146.19
67.5	1160.69	1160.69	1160.00	1158.62	1156.78	1154.25	1152.17	1148.95	1144.80
90.0	1160.69	1160.00	1159.31	1158.39	1156.32	1153.78	1150.79	1147.57	1144.11
112.5	1160.69	1160.69	1160.00	1158.62	1156.78	1154.25	1152.17	1148.95	1144.80
135.0	1160.69	1160.46	1159.77	1158.62	1157.01	1154.94	1152.86	1149.87	1146.19
157.5	1160.69	1160.23	1159.77	1158.85	1157.47	1155.63	1153.55	1150.33	1147.11
180.0	1160.69	1172.43	1171.97	1171.05	1169.90	1168.06	1165.53	1163.22	1160.46
202.5	1160.69	1160.23	1159.77	1158.85	1157.47	1155.63	1153.55	1150.33	1147.11
225.0	1160.69	1160.46	1159.77	1158.62	1157.01	1154.94	1152.86	1149.87	1146.19
247.5	1160.69	1160.69	1160.00	1158.62	1156.78	1154.25	1152.17	1148.95	1144.80
270.0	1160.69	1160.00	1159.31	1158.39	1156.32	1153.78	1150.79	1147.57	1144.11
292.5	1160.69	1160.69	1160.00	1158.62	1156.78	1154.25	1152.17	1148.95	1144.80
315.0	1160.69	1160.46	1159.77	1158.62	1157.01	1154.94	1152.86	1149.87	1146.19
337.5	1160.69	1160.23	1159.77	1158.85	1157.47	1155.63	1153.55	1150.33	1147.11
360.0	1160.69	1172.43	1171.97	1171.05	1169.90	1168.06	1165.53	1163.22	1160.46

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1156.09	1151.48	1147.11	1141.81	1134.21	1130.30	1123.62	1115.79	1107.96
22.5	1143.65	1139.74	1134.44	1128.92	1123.85	1118.10	1110.50	1103.36	1095.99
45.0	1142.50	1138.36	1133.52	1127.54	1122.24	1116.02	1109.35	1101.29	1093.92
67.5	1140.43	1136.29	1130.99	1125.69	1119.48	1113.26	1105.43	1097.83	1089.78
90.0	1139.28	1133.98	1128.92	1123.16	1118.10	1111.42	1102.90	1095.07	1087.47
112.5	1136.29	1136.29	1130.99	1125.69	1119.48	1113.26	1105.43	1097.83	1089.78
135.0	1136.98	1138.36	1133.52	1127.54	1122.24	1116.02	1109.35	1101.29	1093.92
157.5	1138.59	1139.74	1134.44	1128.92	1123.85	1118.10	1110.50	1103.36	1095.99
180.0	1156.09	1151.48	1147.11	1141.81	1134.21	1130.30	1123.62	1115.79	1107.96
202.5	1143.65	1139.74	1134.44	1128.92	1123.85	1118.10	1110.50	1103.36	1095.99
225.0	1142.50	1138.36	1133.52	1127.54	1122.24	1116.02	1109.35	1101.29	1093.92
247.5	1140.43	1136.29	1130.99	1125.69	1119.48	1113.26	1105.43	1097.83	1089.78
270.0	1139.28	1133.98	1128.92	1123.16	1118.10	1111.42	1102.90	1095.07	1087.47
292.5	1145.73	1136.29	1130.99	1125.69	1119.48	1113.26	1105.43	1097.83	1089.78
315.0	1147.80	1138.36	1133.52	1127.54	1122.24	1116.02	1109.35	1101.29	1093.92
337.5	1149.64	1139.74	1134.44	1128.92	1123.85	1118.10	1110.50	1103.36	1095.99
360.0	1156.09	1151.48	1147.11	1141.81	1134.21	1130.30	1123.62	1115.79	1107.96

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1100.60	1091.62	1082.87	1072.97	1063.53	1052.47	1042.34	1032.21	1020.01
22.5	1087.47	1079.64	1070.89	1062.38	1052.24	1041.19	1031.52	1022.08	1009.42
45.0	1085.86	1077.80	1069.28	1058.23	1049.71	1038.66	1028.99	1018.17	1007.35
67.5	1081.95	1072.51	1064.22	1054.09	1044.19	1034.28	1022.77	1011.26	999.75
90.0	1079.41	1070.20	1060.99	1050.86	1041.42	1029.91	1019.55	1007.12	995.83
112.5	1081.95	1072.51	1064.22	1054.09	1044.19	1034.28	1022.77	1011.26	999.75
135.0	1085.86	1077.80	1069.28	1058.23	1049.71	1038.66	1028.99	1018.17	1007.35
157.5	1087.47	1079.64	1070.89	1062.38	1052.24	1041.19	1031.52	1022.08	1009.42
180.0	1100.60	1091.62	1082.87	1072.97	1063.53	1052.47	1042.34	1032.21	1020.01
202.5	1087.47	1079.64	1070.89	1062.38	1052.24	1041.19	1031.52	1022.08	1009.42
225.0	1085.86	1077.80	1069.28	1058.23	1049.71	1038.66	1028.99	1018.17	1007.35
247.5	1081.95	1072.51	1064.22	1054.09	1044.19	1034.28	1022.77	1011.26	999.75
270.0	1079.41	1070.20	1060.99	1050.86	1041.42	1029.91	1019.55	1007.12	995.83
292.5	1081.95	1072.51	1064.22	1054.09	1044.19	1034.28	1022.77	1011.26	999.75
315.0	1085.86	1077.80	1069.28	1058.23	1049.71	1038.66	1028.99	1018.17	1007.35
337.5	1087.47	1079.64	1070.89	1062.38	1052.24	1041.19	1031.52	1022.08	1009.42
360.0	1100.60	1091.62	1082.87	1072.97	1063.53	1052.47	1042.34	1032.21	1020.01

Intensity data(cd)

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1009.65	997.21	986.85	973.27	961.76	947.71	935.05	921.46	909.26
22.5	998.37	987.08	974.88	962.68	950.93	936.89	923.76	911.33	898.67
45.0	996.06	985.24	971.89	959.68	947.25	934.36	921.23	907.42	894.75
67.5	988.69	975.57	964.06	950.24	938.04	924.69	911.33	898.21	883.24
90.0	984.09	971.89	959.45	946.56	932.05	919.85	905.80	890.38	875.64
112.5	988.69	975.57	964.06	950.24	938.04	924.69	911.33	898.21	883.24
135.0	996.06	985.24	971.89	959.68	947.25	934.36	921.23	907.42	894.75
157.5	998.37	987.08	974.88	962.68	950.93	936.89	923.76	911.33	898.67
180.0	1009.65	997.21	986.85	973.27	961.76	947.71	935.05	921.46	909.26
202.5	998.37	987.08	974.88	962.68	950.93	936.89	923.76	911.33	898.67
225.0	996.06	985.24	971.89	959.68	947.25	934.36	921.23	907.42	894.75
247.5	988.69	975.57	964.06	950.24	938.04	924.69	911.33	898.21	883.24
270.0	984.09	971.89	959.45	946.56	932.05	919.85	905.80	890.38	875.64
292.5	988.69	975.57	964.06	950.24	938.04	924.69	911.33	898.21	883.24
315.0	996.06	985.24	971.89	959.68	947.25	934.36	921.23	907.42	894.75
337.5	998.37	987.08	974.88	962.68	950.93	936.89	923.76	911.33	898.67
360.0	1009.65	997.21	986.85	973.27	961.76	947.71	935.05	921.46	909.26

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	894.98	880.71	867.81	854.23	839.72	822.68	808.87	796.21	781.01
22.5	883.70	871.04	856.30	842.26	827.75	813.93	799.20	783.54	769.96
45.0	881.63	867.81	853.08	839.03	824.07	809.10	794.36	779.40	763.74
67.5	868.27	854.46	840.64	824.53	809.56	794.59	778.94	763.05	747.85
90.0	862.98	848.24	833.51	818.08	802.65	787.69	773.18	755.68	739.79
112.5	868.27	854.46	840.64	824.53	809.56	794.59	778.94	763.05	747.85
135.0	881.63	867.81	853.08	839.03	824.07	809.10	794.36	779.40	763.74
157.5	883.70	871.04	856.30	842.26	827.75	813.93	799.20	783.54	769.96
180.0	894.98	880.71	867.81	854.23	839.72	822.68	808.87	796.21	781.01
202.5	883.70	871.04	856.30	842.26	827.75	813.93	799.20	783.54	769.96
225.0	881.63	867.81	853.08	839.03	824.07	809.10	794.36	779.40	763.74
247.5	868.27	854.46	840.64	824.53	809.56	794.59	778.94	763.05	747.85
270.0	862.98	848.24	833.51	818.08	802.65	787.69	773.18	755.68	739.79
292.5	868.27	854.46	840.64	824.53	809.56	794.59	778.94	763.05	747.85
315.0	881.63	867.81	853.08	839.03	824.07	809.10	794.36	779.40	763.74
337.5	883.70	871.04	856.30	842.26	827.75	813.93	799.20	783.54	769.96
360.0	894.98	880.71	867.81	854.23	839.72	822.68	808.87	796.21	781.01

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	765.58	750.16	735.88	721.37	703.41	688.68	672.56	657.36	641.48
22.5	754.76	738.41	724.14	708.94	693.05	677.17	662.66	646.77	630.89
45.0	748.54	733.81	716.54	701.11	685.92	670.03	654.14	636.87	620.52
67.5	733.58	716.77	700.88	684.99	668.19	650.69	635.26	619.60	601.18
90.0	724.14	708.71	690.75	673.48	657.59	638.71	622.60	606.25	589.90
112.5	733.58	716.77	700.88	684.99	668.19	650.69	635.26	619.60	601.18
135.0	748.54	733.81	716.54	701.11	685.92	670.03	654.14	636.87	620.52
157.5	754.76	738.41	724.14	708.94	693.05	677.17	662.66	646.77	630.89
180.0	765.58	750.16	735.88	721.37	703.41	688.68	672.56	657.36	641.48
202.5	754.76	738.41	724.14	708.94	693.05	677.17	662.66	646.77	630.89
225.0	748.54	733.81	716.54	701.11	685.92	670.03	654.14	636.87	620.52
247.5	733.58	716.77	700.88	684.99	668.19	650.69	635.26	619.60	601.18
270.0	724.14	708.71	690.75	673.48	657.59	638.71	622.60	606.25	589.90
292.5	733.58	716.77	700.88	684.99	668.19	650.69	635.26	619.60	601.18
315.0	748.54	733.81	716.54	701.11	685.92	670.03	654.14	636.87	620.52
337.5	754.76	738.41	724.14	708.94	693.05	677.17	662.66	646.77	630.89
360.0	765.58	750.16	735.88	721.37	703.41	688.68	672.56	657.36	641.48

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	626.51	611.31	593.59	576.78	561.58	547.54	530.73	511.16	495.27
22.5	614.77	599.34	584.15	567.11	549.15	533.72	517.60	500.33	483.53
45.0	604.41	586.68	571.25	555.13	539.02	521.29	505.40	489.28	470.40
67.5	586.68	569.18	550.30	533.03	517.37	499.87	481.91	461.65	446.46
90.0	570.56	552.60	535.79	518.98	499.18	483.76	463.72	446.92	428.04
112.5	586.68	569.18	550.30	533.03	517.37	499.87	481.91	461.65	446.46
135.0	604.41	586.68	571.25	555.13	539.02	521.29	505.40	489.28	470.40
157.5	614.77	599.34	584.15	567.11	549.15	533.72	517.60	500.33	483.53
180.0	626.51	611.31	593.59	576.78	561.58	547.54	530.73	511.16	495.27
202.5	614.77	599.34	584.15	567.11	549.15	533.72	517.60	500.33	483.53
225.0	604.41	586.68	571.25	555.13	539.02	521.29	505.40	489.28	470.40
247.5	586.68	569.18	550.30	533.03	517.37	499.87	481.91	461.65	446.46
270.0	570.56	552.60	535.79	518.98	499.18	483.76	463.72	446.92	428.04
292.5	586.68	569.18	550.30	533.03	517.37	499.87	481.91	461.65	446.46
315.0	604.41	586.68	571.25	555.13	539.02	521.29	505.40	489.28	470.40
337.5	614.77	599.34	584.15	567.11	549.15	533.72	517.60	500.33	483.53
360.0	626.51	611.31	593.59	576.78	561.58	547.54	530.73	511.16	495.27

C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	479.61	463.72	443.92	428.04	411.92	393.27	377.15	361.26	343.99
22.5	467.64	451.98	434.94	417.67	400.41	383.83	367.94	349.29	332.71
45.0	454.28	436.55	418.83	401.79	384.29	367.02	350.21	332.71	312.68
67.5	430.34	410.77	393.04	374.62	357.35	340.31	321.89	303.47	286.43
90.0	408.92	390.04	372.78	354.82	335.70	315.21	297.71	277.45	259.72
112.5	430.34	410.77	393.04	374.62	357.35	340.31	321.89	303.47	286.43
135.0	454.28	436.55	418.83	401.79	384.29	367.02	350.21	332.71	312.68
157.5	467.64	451.98	434.94	417.67	400.41	383.83	367.94	349.29	332.71
180.0	479.61	463.72	443.92	428.04	411.92	393.27	377.15	361.26	343.99
202.5	467.64	451.98	434.94	417.67	400.41	383.83	367.94	349.29	332.71
225.0	454.28	436.55	418.83	401.79	384.29	367.02	350.21	332.71	312.68
247.5	430.34	410.77	393.04	374.62	357.35	340.31	321.89	303.47	286.43
270.0	408.92	390.04	372.78	354.82	335.70	315.21	297.71	277.45	259.72
292.5	430.34	410.77	393.04	374.62	357.35	340.31	321.89	303.47	286.43
315.0	454.28	436.55	418.83	401.79	384.29	367.02	350.21	332.71	312.68
337.5	467.64	451.98	434.94	417.67	400.41	383.83	367.94	349.29	332.71
360.0	479.61	463.72	443.92	428.04	411.92	393.27	377.15	361.26	343.99

C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	325.80	309.69	294.26	278.60	263.18	244.30	229.56	215.05	200.78
22.5	315.67	300.48	282.98	266.63	251.43	236.47	219.66	203.31	189.27
45.0	297.02	278.37	262.02	245.91	228.64	212.06	195.48	180.75	165.78
67.5	267.55	249.36	230.71	214.13	197.09	180.29	164.40	147.13	132.16
90.0	242.45	225.42	205.38	188.11	168.54	151.73	134.24	118.12	101.31
112.5	267.55	249.36	230.71	214.13	197.09	180.29	164.40	147.13	132.16
135.0	297.02	278.37	262.02	245.91	228.64	212.06	195.48	180.75	165.78
157.5	315.67	300.48	282.98	266.63	251.43	236.47	219.66	203.31	189.27
180.0	325.80	309.69	294.26	278.60	263.18	244.30	229.56	215.05	200.78
202.5	315.67	300.48	282.98	266.63	251.43	236.47	219.66	203.31	189.27
225.0	297.02	278.37	262.02	245.91	228.64	212.06	195.48	180.75	165.78
247.5	267.55	249.36	230.71	214.13	197.09	180.29	164.40	147.13	132.16
270.0	242.45	225.42	205.38	188.11	168.54	151.73	134.24	118.12	101.31
292.5	267.55	249.36	230.71	214.13	197.09	180.29	164.40	147.13	132.16
315.0	297.02	278.37	262.02	245.91	228.64	212.06	195.48	180.75	165.78
337.5	315.67	300.48	282.98	266.63	251.43	236.47	219.66	203.31	189.27
360.0	325.80	309.69	294.26	278.60	263.18	244.30	229.56	215.05	200.78

Intensity data(cd)

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	183.97	170.62	158.18	144.37	133.08	123.64	116.05	108.68	104.53
22.5	174.30	160.02	146.44	135.39	123.18	113.51	104.99	98.78	94.86
45.0	149.43	135.62	121.57	113.05	101.08	91.87	83.35	75.52	71.15
67.5	116.28	101.54	87.73	74.60	62.86	52.27	43.29	37.07	33.62
90.0	86.34	71.84	51.35	42.37	31.54	21.64	12.89	6.91	2.76
112.5	116.28	101.54	87.73	74.60	62.86	52.27	43.29	37.07	33.62
135.0	149.43	135.62	121.57	113.05	101.08	91.87	83.35	75.52	71.15
157.5	174.30	160.02	146.44	135.39	123.18	113.51	104.99	98.78	94.86
180.0	183.97	170.62	158.18	144.37	133.08	123.64	116.05	108.68	104.53
202.5	174.30	160.02	146.44	135.39	123.18	113.51	104.99	98.78	94.86
225.0	149.43	135.62	121.57	113.05	101.08	91.87	83.35	75.52	71.15
247.5	116.28	101.54	87.73	74.60	62.86	52.27	43.29	37.07	33.62
270.0	86.34	71.84	51.35	42.37	31.54	21.64	12.89	6.91	2.76
292.5	116.28	101.54	87.73	74.60	62.86	52.27	43.29	37.07	33.62
315.0	149.43	135.62	121.57	113.05	101.08	91.87	83.35	75.52	71.15
337.5	174.30	160.02	146.44	135.39	123.18	113.51	104.99	98.78	94.86
360.0	183.97	170.62	158.18	144.37	133.08	123.64	116.05	108.68	104.53

C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	102.69	101.54	100.85	99.93	99.24	98.32	97.40	96.71	95.78
22.5	93.02	91.87	90.95	90.03	89.11	88.42	87.73	86.80	85.88
45.0	68.15	66.77	66.08	65.16	64.47	63.78	62.86	62.17	61.48
67.5	32.00	31.08	30.39	29.70	29.24	28.78	28.32	28.09	27.63
90.0	1.15	0.69	0.69	0.46	0.23	0.46	0.46	0.46	0.46
112.5	32.00	31.08	30.39	29.70	29.24	28.78	28.32	28.09	27.63
135.0	68.15	66.77	66.08	65.16	64.47	63.78	62.86	62.17	61.48
157.5	93.02	91.87	90.95	90.03	89.11	88.42	87.73	86.80	85.88
180.0	102.69	101.54	100.85	99.93	99.24	98.32	97.40	96.71	95.78
202.5	93.02	91.87	90.95	90.03	89.11	88.42	87.73	86.80	85.88
225.0	68.15	66.77	66.08	65.16	64.47	63.78	62.86	62.17	61.48
247.5	32.00	31.08	30.39	29.70	29.24	28.78	28.32	28.09	27.63
270.0	1.15	0.69	0.69	0.46	0.23	0.46	0.46	0.46	0.46
292.5	32.00	31.08	30.39	29.70	29.24	28.78	28.32	28.09	27.63
315.0	68.15	66.77	66.08	65.16	64.47	63.78	62.86	62.17	61.48
337.5	93.02	91.87	90.95	90.03	89.11	88.42	87.73	86.80	85.88
360.0	102.69	101.54	100.85	99.93	99.24	98.32	97.40	96.71	95.78

C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	94.86	93.94	93.02	92.33	91.18	90.26	89.34	88.42	87.26
22.5	84.96	84.04	83.12	82.20	81.74	80.82	79.90	79.21	78.29
45.0	60.79	60.33	59.63	58.94	58.48	58.02	57.33	56.64	56.18
67.5	27.40	27.17	26.94	26.48	26.02	25.79	25.56	25.10	24.87
90.0	0.46	0.46	0.69	0.69	0.69	0.69	0.92	0.92	1.15
112.5	27.40	27.17	26.94	26.48	26.02	25.79	25.56	25.10	24.87
135.0	60.79	60.33	59.63	58.94	58.48	58.02	57.33	56.64	56.18
157.5	84.96	84.04	83.12	82.20	81.74	80.82	79.90	79.21	78.29
180.0	94.86	93.94	93.02	92.33	91.18	90.26	89.34	88.42	87.26
202.5	84.96	84.04	83.12	82.20	81.74	80.82	79.90	79.21	78.29
225.0	60.79	60.33	59.63	58.94	58.48	58.02	57.33	56.64	56.18
247.5	27.40	27.17	26.94	26.48	26.02	25.79	25.56	25.10	24.87
270.0	0.46	0.46	0.69	0.69	0.69	0.69	0.92	0.92	1.15
292.5	27.40	27.17	26.94	26.48	26.02	25.79	25.56	25.10	24.87
315.0	60.79	60.33	59.63	58.94	58.48	58.02	57.33	56.64	56.18
337.5	84.96	84.04	83.12	82.20	81.74	80.82	79.90	79.21	78.29
360.0	94.86	93.94	93.02	92.33	91.18	90.26	89.34	88.42	87.26

Intensity data(cd)

C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	86.57	85.42	84.27	83.35	82.20	81.05	79.90	78.98	77.59
22.5	77.36	76.44	75.52	74.60	73.68	72.53	71.61	70.69	69.77
45.0	55.49	55.03	54.34	53.65	52.96	52.27	51.58	51.12	50.42
67.5	24.64	24.41	23.95	23.72	23.49	23.03	22.79	22.56	22.33
90.0	1.15	1.15	1.15	1.38	1.61	1.61	1.61	1.84	1.61
112.5	24.64	24.41	23.95	23.72	23.49	23.03	22.79	22.56	22.33
135.0	55.49	55.03	54.34	53.65	52.96	52.27	51.58	51.12	50.42
157.5	77.36	76.44	75.52	74.60	73.68	72.53	71.61	70.69	69.77
180.0	86.57	85.42	84.27	83.35	82.20	81.05	79.90	78.98	77.59
202.5	77.36	76.44	75.52	74.60	73.68	72.53	71.61	70.69	69.77
225.0	55.49	55.03	54.34	53.65	52.96	52.27	51.58	51.12	50.42
247.5	24.64	24.41	23.95	23.72	23.49	23.03	22.79	22.56	22.33
270.0	1.15	1.15	1.15	1.38	1.61	1.61	1.61	1.84	1.61
292.5	24.64	24.41	23.95	23.72	23.49	23.03	22.79	22.56	22.33
315.0	55.49	55.03	54.34	53.65	52.96	52.27	51.58	51.12	50.42
337.5	77.36	76.44	75.52	74.60	73.68	72.53	71.61	70.69	69.77
360.0	86.57	85.42	84.27	83.35	82.20	81.05	79.90	78.98	77.59

C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	76.67	75.75	74.37	73.22	72.07	71.15	70.00	68.38	67.46
22.5	68.61	67.92	67.00	65.85	64.70	63.78	62.63	61.71	60.56
45.0	49.50	48.81	48.12	47.43	46.74	45.82	44.90	44.21	43.52
67.5	22.10	21.64	21.41	21.18	20.72	20.49	20.26	20.03	19.57
90.0	1.84	1.84	2.07	2.07	2.07	2.30	2.07	2.07	2.07
112.5	22.10	21.64	21.41	21.18	20.72	20.49	20.26	20.03	19.57
135.0	49.50	48.81	48.12	47.43	46.74	45.82	44.90	44.21	43.52
157.5	68.61	67.92	67.00	65.85	64.70	63.78	62.63	61.71	60.56
180.0	76.67	75.75	74.37	73.22	72.07	71.15	70.00	68.38	67.46
202.5	68.61	67.92	67.00	65.85	64.70	63.78	62.63	61.71	60.56
225.0	49.50	48.81	48.12	47.43	46.74	45.82	44.90	44.21	43.52
247.5	22.10	21.64	21.41	21.18	20.72	20.49	20.26	20.03	19.57
270.0	1.84	1.84	2.07	2.07	2.07	2.30	2.07	2.07	2.07
292.5	22.10	21.64	21.41	21.18	20.72	20.49	20.26	20.03	19.57
315.0	49.50	48.81	48.12	47.43	46.74	45.82	44.90	44.21	43.52
337.5	68.61	67.92	67.00	65.85	64.70	63.78	62.63	61.71	60.56
360.0	76.67	75.75	74.37	73.22	72.07	71.15	70.00	68.38	67.46

C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	66.31	64.93	63.78	62.63	61.25	60.10	58.94	57.56	56.18
22.5	59.40	58.25	57.33	56.18	55.03	53.88	52.73	51.58	50.42
45.0	42.83	41.91	41.21	40.29	39.60	38.68	37.99	37.30	36.38
67.5	19.34	18.88	18.65	18.19	17.73	17.50	17.27	16.81	16.58
90.0	2.30	2.07	2.30	2.30	2.30	2.53	2.53	2.53	2.53
112.5	19.34	18.88	18.65	18.19	17.73	17.50	17.27	16.81	16.58
135.0	42.83	41.91	41.21	40.29	39.60	38.68	37.99	37.30	36.38
157.5	59.40	58.25	57.33	56.18	55.03	53.88	52.73	51.58	50.42
180.0	66.31	64.93	63.78	62.63	61.25	60.10	58.94	57.56	56.18
202.5	59.40	58.25	57.33	56.18	55.03	53.88	52.73	51.58	50.42
225.0	42.83	41.91	41.21	40.29	39.60	38.68	37.99	37.30	36.38
247.5	19.34	18.88	18.65	18.19	17.73	17.50	17.27	16.81	16.58
270.0	2.30	2.07	2.30	2.30	2.30	2.53	2.53	2.53	2.53
292.5	19.34	18.88	18.65	18.19	17.73	17.50	17.27	16.81	16.58
315.0	42.83	41.91	41.21	40.29	39.60	38.68	37.99	37.30	36.38
337.5	59.40	58.25	57.33	56.18	55.03	53.88	52.73	51.58	50.42
360.0	66.31	64.93	63.78	62.63	61.25	60.10	58.94	57.56	56.18

Intensity data(cd)

C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	55.03	53.65	52.27	50.89	49.50	48.58	46.97	46.05	44.67
22.5	49.04	48.12	46.97	45.82	44.67	43.52	42.14	41.45	40.29
45.0	35.46	34.77	33.85	33.16	32.24	31.54	30.62	29.93	29.01
67.5	16.12	15.66	15.43	15.20	14.74	14.05	13.82	13.58	13.12
90.0	2.53	2.53	2.76	2.76	2.76	2.76	2.99	2.76	2.76
112.5	16.12	15.66	15.43	15.20	14.74	14.05	13.82	13.58	13.12
135.0	35.46	34.77	33.85	33.16	32.24	31.54	30.62	29.93	29.01
157.5	49.04	48.12	46.97	45.82	44.67	43.52	42.14	41.45	40.29
180.0	55.03	53.65	52.27	50.89	49.50	48.58	46.97	46.05	44.67
202.5	49.04	48.12	46.97	45.82	44.67	43.52	42.14	41.45	40.29
225.0	35.46	34.77	33.85	33.16	32.24	31.54	30.62	29.93	29.01
247.5	16.12	15.66	15.43	15.20	14.74	14.05	13.82	13.58	13.12
270.0	2.53	2.53	2.76	2.76	2.76	2.76	2.99	2.76	2.76
292.5	16.12	15.66	15.43	15.20	14.74	14.05	13.82	13.58	13.12
315.0	35.46	34.77	33.85	33.16	32.24	31.54	30.62	29.93	29.01
337.5	49.04	48.12	46.97	45.82	44.67	43.52	42.14	41.45	40.29
360.0	55.03	53.65	52.27	50.89	49.50	48.58	46.97	46.05	44.67

C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	43.29	41.91	40.52	39.37	37.99	36.61	35.23	34.08	32.70
22.5	38.91	37.76	36.38	35.23	34.08	32.93	31.54	30.39	29.24
45.0	28.09	27.17	26.25	25.33	24.41	23.72	22.56	21.64	20.49
67.5	12.66	12.43	11.97	11.51	11.05	10.82	10.13	9.67	9.44
90.0	2.99	2.99	2.76	2.76	2.76	2.76	2.99	2.99	2.99
112.5	12.66	12.43	11.97	11.51	11.05	10.82	10.13	9.67	9.44
135.0	28.09	27.17	26.25	25.33	24.41	23.72	22.56	21.64	20.49
157.5	38.91	37.76	36.38	35.23	34.08	32.93	31.54	30.39	29.24
180.0	43.29	41.91	40.52	39.37	37.99	36.61	35.23	34.08	32.70
202.5	38.91	37.76	36.38	35.23	34.08	32.93	31.54	30.39	29.24
225.0	28.09	27.17	26.25	25.33	24.41	23.72	22.56	21.64	20.49
247.5	12.66	12.43	11.97	11.51	11.05	10.82	10.13	9.67	9.44
270.0	2.99	2.99	2.76	2.76	2.76	2.76	2.99	2.99	2.99
292.5	12.66	12.43	11.97	11.51	11.05	10.82	10.13	9.67	9.44
315.0	28.09	27.17	26.25	25.33	24.41	23.72	22.56	21.64	20.49
337.5	38.91	37.76	36.38	35.23	34.08	32.93	31.54	30.39	29.24
360.0	43.29	41.91	40.52	39.37	37.99	36.61	35.23	34.08	32.70

C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	31.31	29.93	28.55	27.17	26.02	24.64	23.03	21.87	20.72
22.5	28.09	26.71	25.56	24.41	23.26	21.87	20.72	19.34	17.96
45.0	19.57	18.65	17.73	16.58	15.89	14.74	14.05	13.35	12.43
67.5	8.98	8.52	8.29	8.06	7.60	7.37	7.14	6.68	6.45
90.0	2.99	2.99	2.76	2.99	2.99	2.99	3.22	3.22	3.45
112.5	8.98	8.52	8.29	8.06	7.60	7.37	7.14	6.68	6.45
135.0	19.57	18.65	17.73	16.58	15.89	14.74	14.05	13.35	12.43
157.5	28.09	26.71	25.56	24.41	23.26	21.87	20.72	19.34	17.96
180.0	31.31	29.93	28.55	27.17	26.02	24.64	23.03	21.87	20.72
202.5	28.09	26.71	25.56	24.41	23.26	21.87	20.72	19.34	17.96
225.0	19.57	18.65	17.73	16.58	15.89	14.74	14.05	13.35	12.43
247.5	8.98	8.52	8.29	8.06	7.60	7.37	7.14	6.68	6.45
270.0	2.99	2.99	2.76	2.99	2.99	2.99	3.22	3.22	3.45
292.5	8.98	8.52	8.29	8.06	7.60	7.37	7.14	6.68	6.45
315.0	19.57	18.65	17.73	16.58	15.89	14.74	14.05	13.35	12.43
337.5	28.09	26.71	25.56	24.41	23.26	21.87	20.72	19.34	17.96
360.0	31.31	29.93	28.55	27.17	26.02	24.64	23.03	21.87	20.72

Intensity data(cd)

C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	19.34	17.73	16.58	15.20	14.05	12.89	11.51	10.36	9.44
22.5	16.81	15.43	14.51	13.12	11.97	11.05	9.90	8.98	7.83
45.0	11.74	10.82	10.13	9.21	8.52	8.29	7.37	6.91	6.22
67.5	6.22	5.76	5.76	5.53	5.07	4.84	4.61	4.61	4.37
90.0	3.45	3.22	3.22	3.22	3.22	3.22	3.45	3.45	3.22
112.5	6.22	5.76	5.76	5.53	5.07	4.84	4.61	4.61	4.37
135.0	11.74	10.82	10.13	9.21	8.52	8.29	7.37	6.91	6.22
157.5	16.81	15.43	14.51	13.12	11.97	11.05	9.90	8.98	7.83
180.0	19.34	17.73	16.58	15.20	14.05	12.89	11.51	10.36	9.44
202.5	16.81	15.43	14.51	13.12	11.97	11.05	9.90	8.98	7.83
225.0	11.74	10.82	10.13	9.21	8.52	8.29	7.37	6.91	6.22
247.5	6.22	5.76	5.76	5.53	5.07	4.84	4.61	4.61	4.37
270.0	3.45	3.22	3.22	3.22	3.22	3.22	3.45	3.45	3.22
292.5	6.22	5.76	5.76	5.53	5.07	4.84	4.61	4.61	4.37
315.0	11.74	10.82	10.13	9.21	8.52	8.29	7.37	6.91	6.22
337.5	16.81	15.43	14.51	13.12	11.97	11.05	9.90	8.98	7.83
360.0	19.34	17.73	16.58	15.20	14.05	12.89	11.51	10.36	9.44

C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	8.29	7.37	6.45	5.53	4.84	4.14	3.45	3.22	2.53
22.5	6.91	6.22	5.53	5.07	4.37	3.45	2.99	2.99	2.76
45.0	5.76	5.07	4.61	4.61	3.91	3.45	3.22	3.22	3.45
67.5	3.91	3.68	3.45	3.22	2.99	2.99	3.22	3.45	3.45
90.0	3.45	3.45	3.22	3.22	3.22	3.45	3.45	3.45	3.45
112.5	3.91	3.68	3.45	3.22	2.99	2.99	3.22	3.45	3.45
135.0	5.76	5.07	4.61	4.61	3.91	3.45	3.22	3.22	3.45
157.5	6.91	6.22	5.53	5.07	4.37	3.45	2.99	2.99	2.76
180.0	8.29	7.37	6.45	5.53	4.84	4.14	3.45	3.22	2.53
202.5	6.91	6.22	5.53	5.07	4.37	3.45	2.99	2.99	2.76
225.0	5.76	5.07	4.61	4.61	3.91	3.45	3.22	3.22	3.45
247.5	3.91	3.68	3.45	3.22	2.99	2.99	3.22	3.45	3.45
270.0	3.45	3.45	3.22	3.22	3.22	3.45	3.45	3.45	3.45
292.5	3.91	3.68	3.45	3.22	2.99	2.99	3.22	3.45	3.45
315.0	5.76	5.07	4.61	4.61	3.91	3.45	3.22	3.22	3.45
337.5	6.91	6.22	5.53	5.07	4.37	3.45	2.99	2.99	2.76
360.0	8.29	7.37	6.45	5.53	4.84	4.14	3.45	3.22	2.53

C/γ(°)	180.0
0.0	2.99
22.5	2.99
45.0	2.99
67.5	2.99
90.0	2.99
112.5	2.99
135.0	2.99
157.5	2.99
180.0	2.99
202.5	2.99
225.0	2.99
247.5	2.99
270.0	2.99
292.5	2.99
315.0	2.99
337.5	2.99
360.0	2.99