



Shenzhen Anbotek Compliance Laboratory Ltd

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LumCAT:

Luminaire:

Report No:

Test No:

LampCAT:

Lamp flux(lm)

Number of Lamps: 1

Length(mm): 0

Phm Type: C

Voltage(V): 4.2200

Current(A): 0.6020

Power (W): 2.5400

PF: 1.0000

Ballast type:

Width(mm): 0

Height(mm): 0

Photometric Results

Lumens(lm): 214.95

Lumens(lm)/Power(W): 84.63

Central intensity(cd): 75.522

Maximum intensity(cd): 75.522

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=106.9

[C90/270]Total=106.9

Field angle(10%Imax): [C0/180]Total=159.3

[C90/270]Total=159.3

Maximum s/h(1/2): C0_180=1.29 C90_270=1.29

Maximum s/h(1/4): C0_180=1.38 C90_270=1.38

Up flux rate of LUM(%): 3.00%

Down flux rate of LUM(%): 97.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 78.608%

Equipment:
Temperature(°C): 25.0

Date: 2017-1-10
Humidity(%): 60.0%

Operator: Alcander
Distance(m): 12.87

Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)	Sum/Lum(%)
0.0	75.522	.000	.000	.000%	.000%	.000%
5.0	75.388	1.804	1.804	.839%	.839%	.839%
10.0	74.703	5.369	7.173	2.498%	3.337%	3.337%
15.0	73.702	8.803	15.977	4.095%	7.433%	7.433%
20.0	71.934	12.002	27.979	5.584%	13.016%	13.016%
25.0	69.257	14.808	42.787	6.889%	19.906%	19.906%
30.0	65.846	17.097	59.885	7.954%	27.860%	27.860%
35.0	61.759	18.791	78.675	8.742%	36.602%	36.602%
40.0	56.703	19.764	98.440	9.195%	45.796%	45.796%
45.0	50.221	19.798	118.237	9.210%	55.007%	55.007%
50.0	42.884	18.813	137.051	8.752%	63.759%	63.759%
55.0	35.458	17.034	154.085	7.925%	71.684%	71.684%
60.0	28.931	14.883	168.968	6.924%	78.608%	78.608%
65.0	22.198	12.430	181.398	5.782%	84.390%	84.390%
70.0	16.583	9.820	191.217	4.568%	88.959%	88.959%
75.0	11.249	7.275	198.492	3.384%	92.343%	92.343%
80.0	7.277	4.957	203.449	2.306%	94.649%	94.649%
85.0	4.445	3.185	206.635	1.482%	96.131%	96.131%
90.0	2.362	1.864	208.498	.867%	96.998%	96.998%
95.0	1.406	1.032	209.530	.480%	97.478%	97.478%
100.0	1.433	.771	210.301	.359%	97.837%	97.837%
105.0	1.583	.807	211.108	.375%	98.213%	98.213%
110.0	1.502	.806	211.915	.375%	98.588%	98.588%
115.0	1.295	.708	212.623	.329%	98.917%	98.917%
120.0	1.117	.586	213.210	.273%	99.190%	99.190%
125.0	.882	.462	213.672	.215%	99.405%	99.405%
130.0	.703	.345	214.016	.160%	99.565%	99.565%
135.0	.594	.262	214.279	.122%	99.687%	99.687%
140.0	.456	.194	214.473	.090%	99.778%	99.778%
145.0	.414	.145	214.618	.068%	99.845%	99.845%
150.0	.345	.112	214.730	.052%	99.897%	99.897%
155.0	.303	.082	214.812	.038%	99.936%	99.936%
160.0	.262	.059	214.871	.028%	99.963%	99.963%
165.0	.262	.043	214.915	.020%	99.983%	99.983%
170.0	.179	.026	214.941	.012%	99.995%	99.995%
175.0	.069	.009	214.950	.004%	100.000%	100.000%
180.0	.000	.001	214.950	.000%	100.000%	100.000%

Equipment:
Temperature($^{\circ}\text{C}$): 25.0

Date: 2017-1-10
Humidity(%): 60.0%

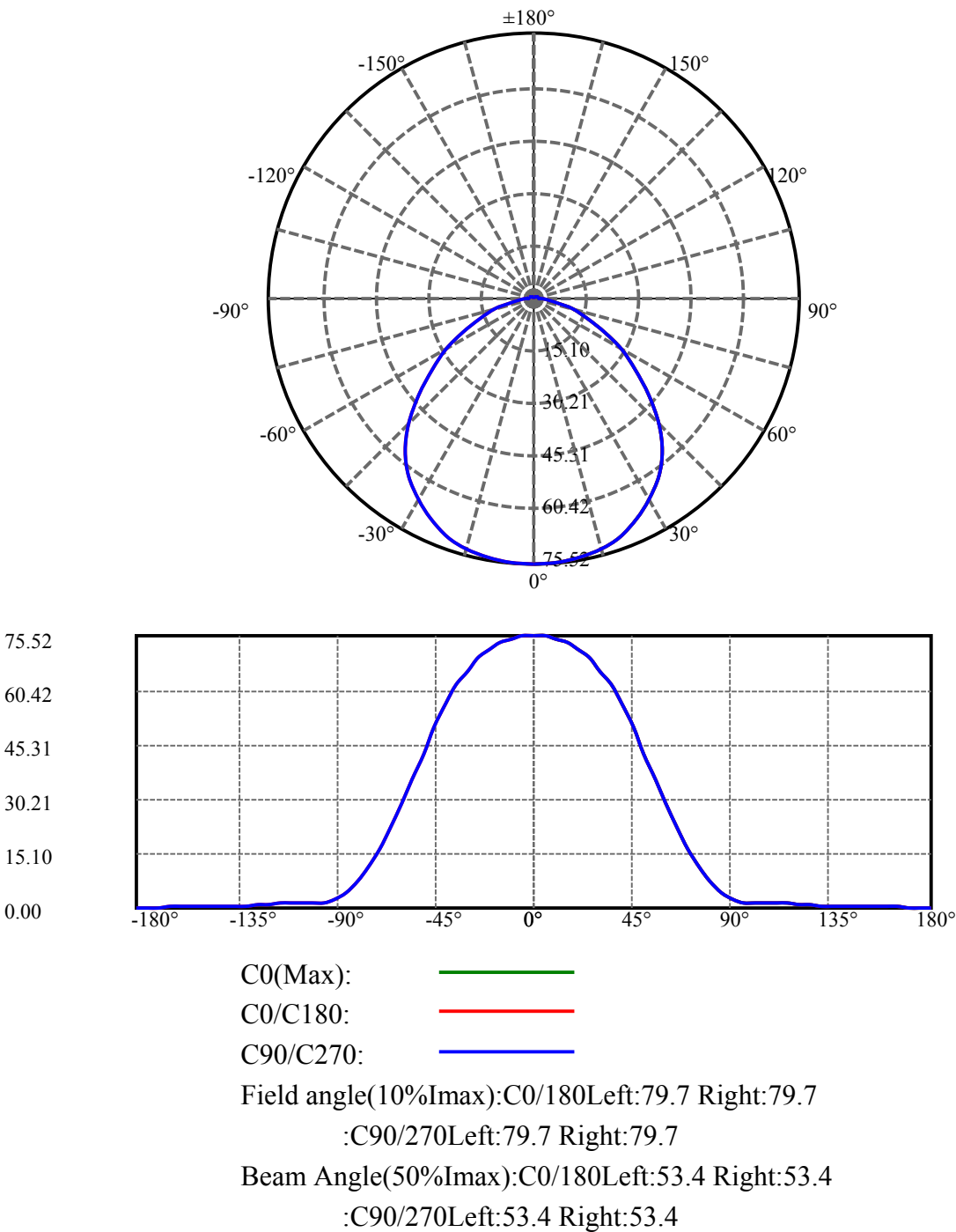
Operator: Alcander
Distance(m): 12.87

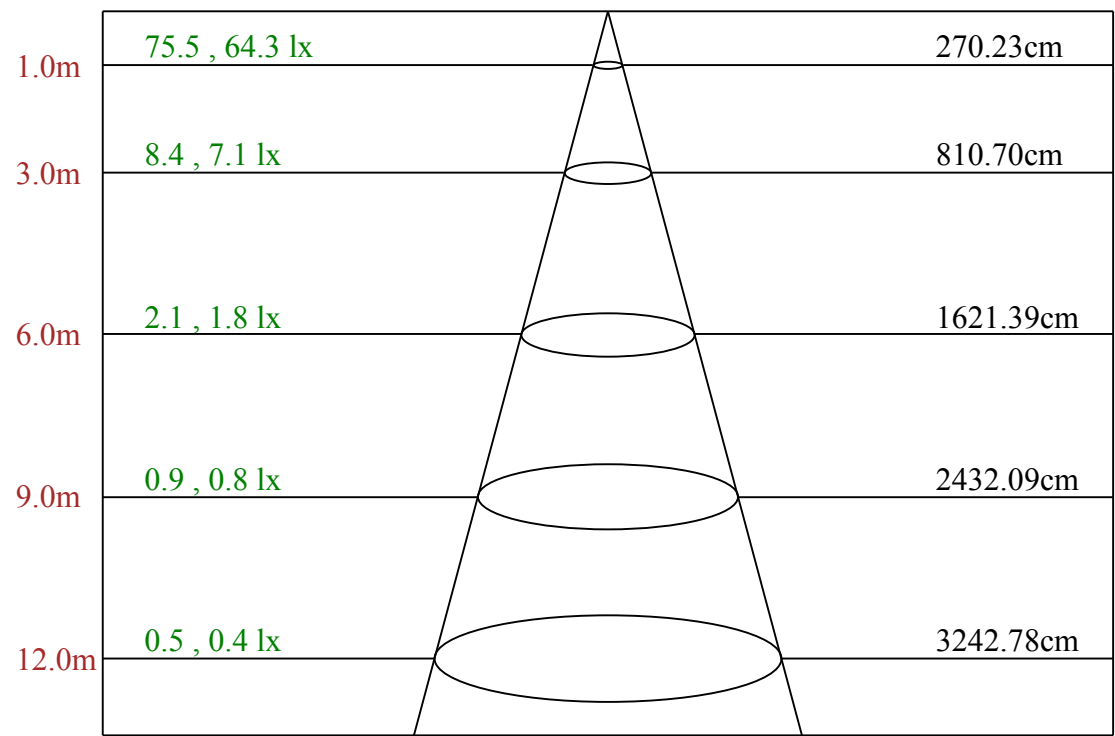
ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	59.88	27.86%
0-40	98.44	45.80%
0-60	168.97	78.61%
0-90	208.50	97.00%
0-120	213.21	99.19%
0-180	214.95	100.00%
60-90	54.41	25.31%
90-120	6.57	3.06%
90-130	7.38	3.43%
90-150	8.10	3.77%
90-180	8.32	3.87%
0-61.20	171.96	80.00%

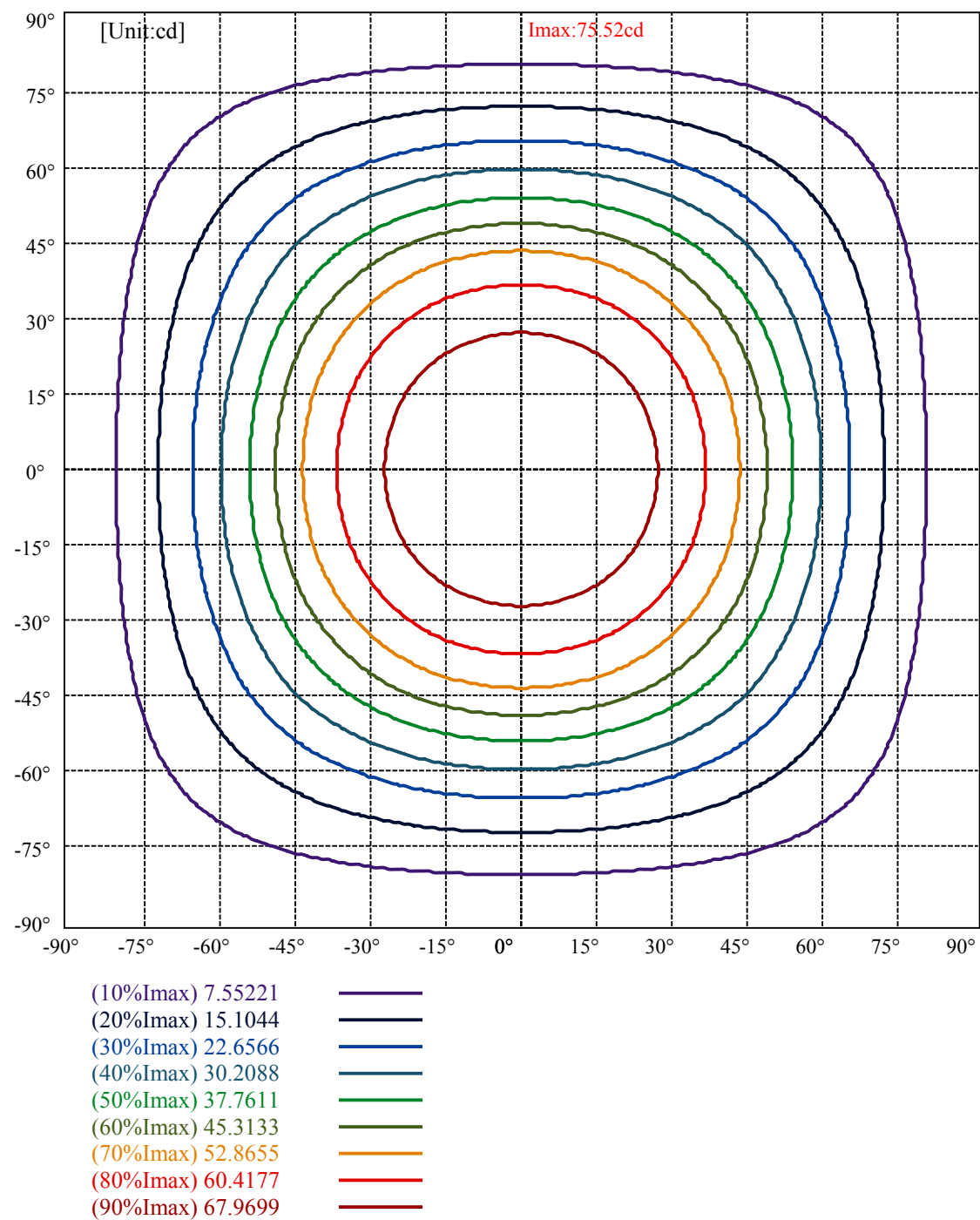
ZONAL LUMEN SUMMARY

0-10	7.17
10-20	20.81
20-30	31.91
30-40	38.56
40-50	38.61
50-60	31.92
60-70	22.25
70-80	12.23
80-90	5.05
90-100	1.80
100-110	1.61
110-120	1.29
120-130	0.81
130-140	0.46
140-150	0.26
150-160	0.14
160-170	0.07
170-180	0.01





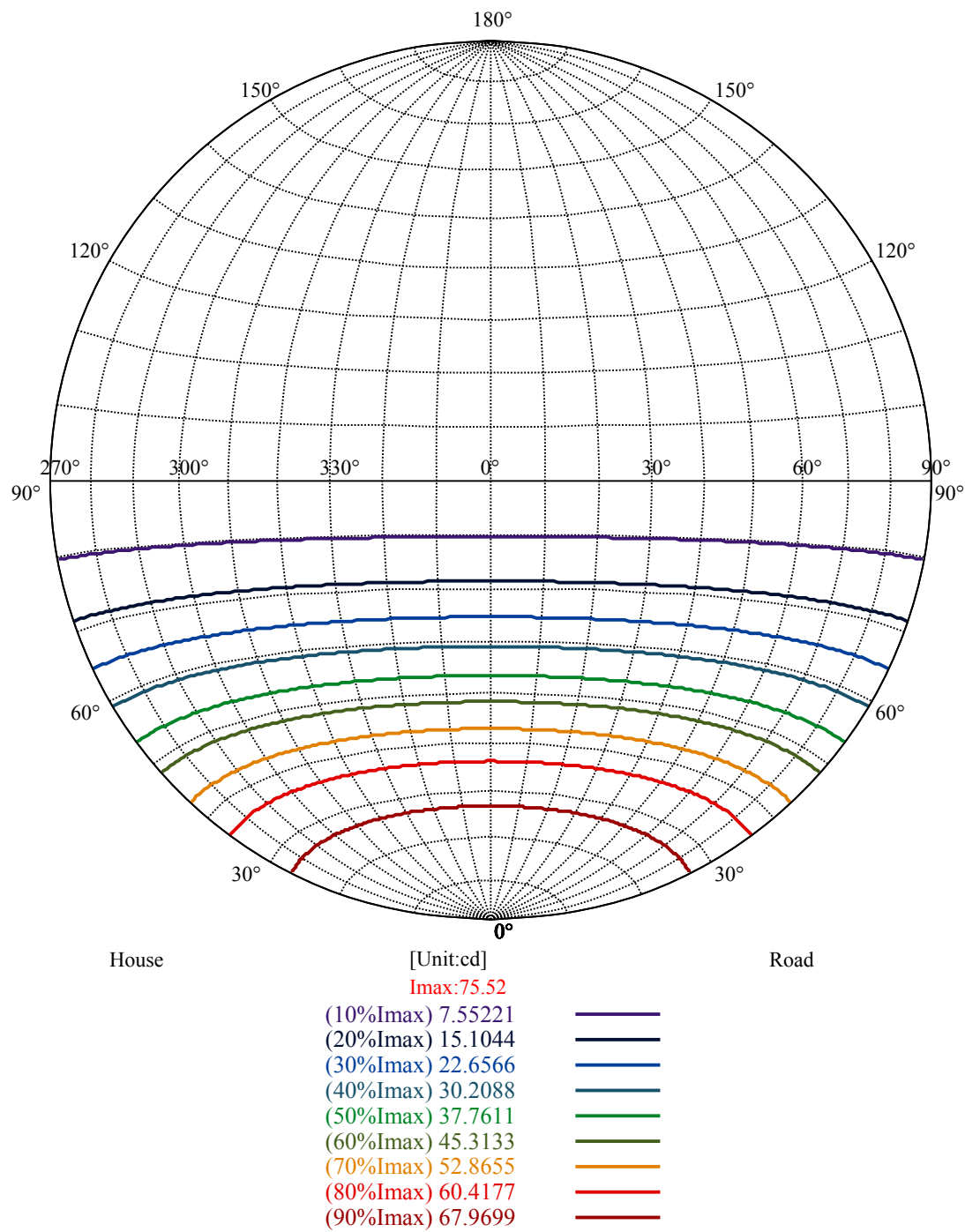
Max , Ave Beam angle of C0plane106.99

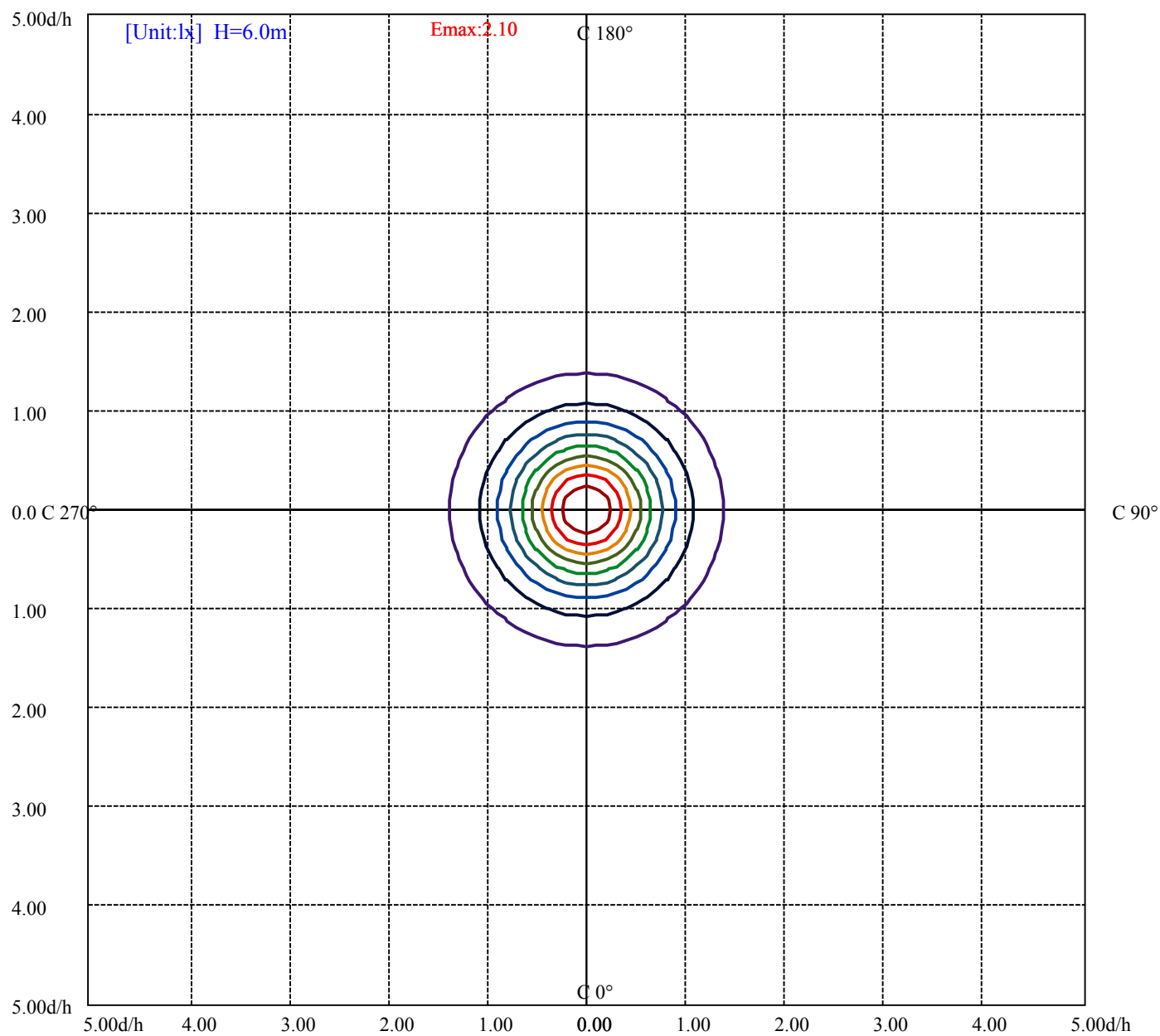


Equipment:
Temperature(°C): 25.0

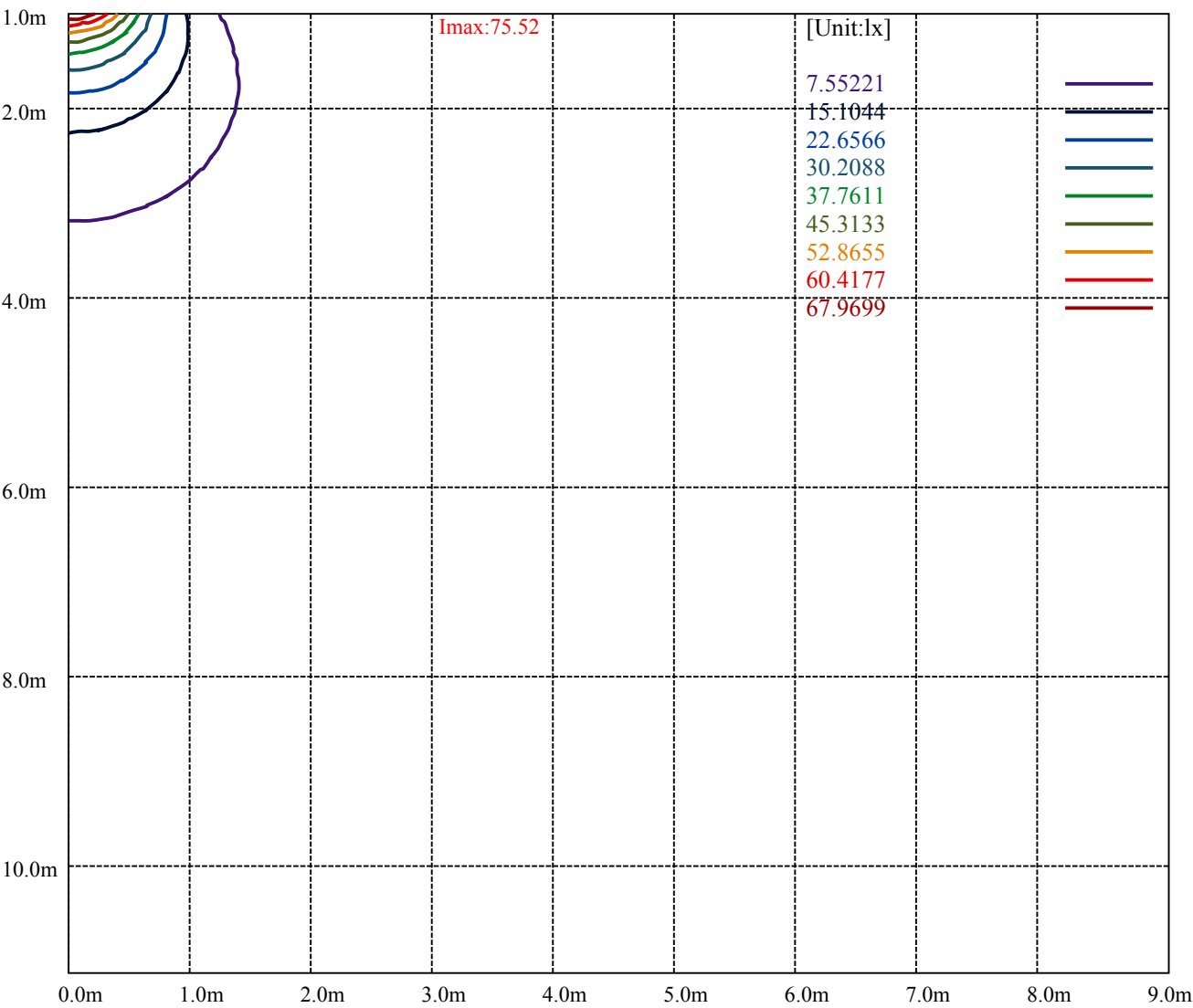
Date: 2017-1-10
Humidity(%): 60.0%

Operator: Alcander
Distance(m): 12.87





(10%Emax)	0.2097836	—
(20%Emax)	0.4195667	—
(30%Emax)	0.62935	—
(40%Emax)	0.8391333	—
(50%Emax)	1.048919	—
(60%Emax)	1.258703	—
(70%Emax)	1.468486	—
(80%Emax)	1.67827	—
(90%Emax)	1.888053	—



Luminance Limiting Curve(no luminous side)

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Luminance Table

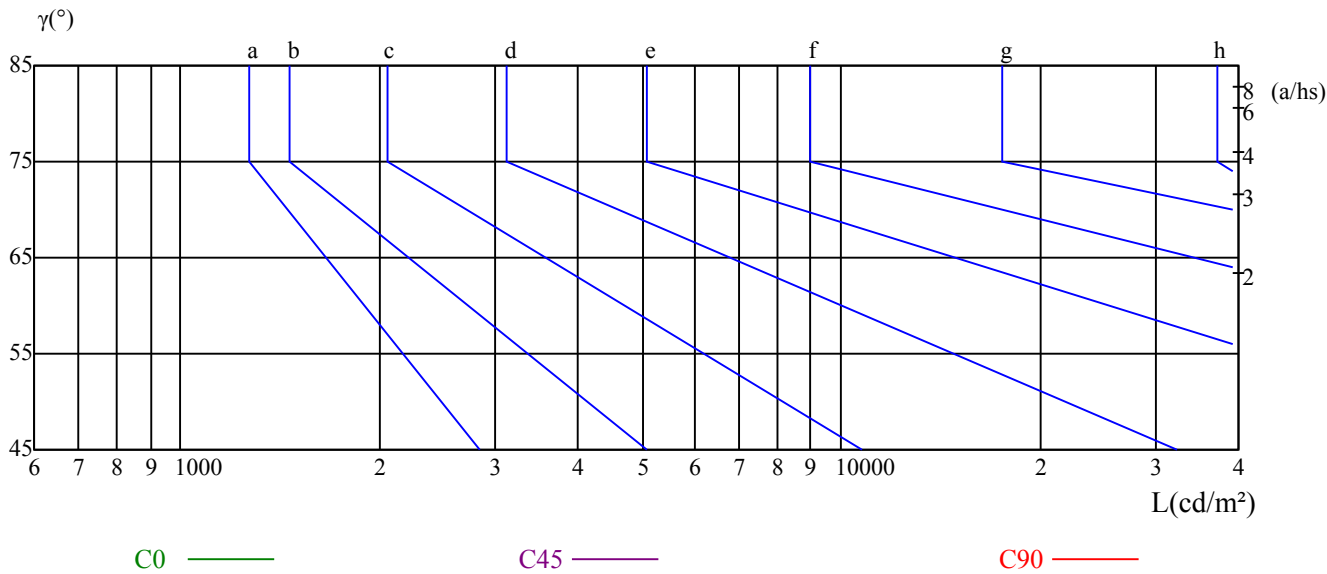
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

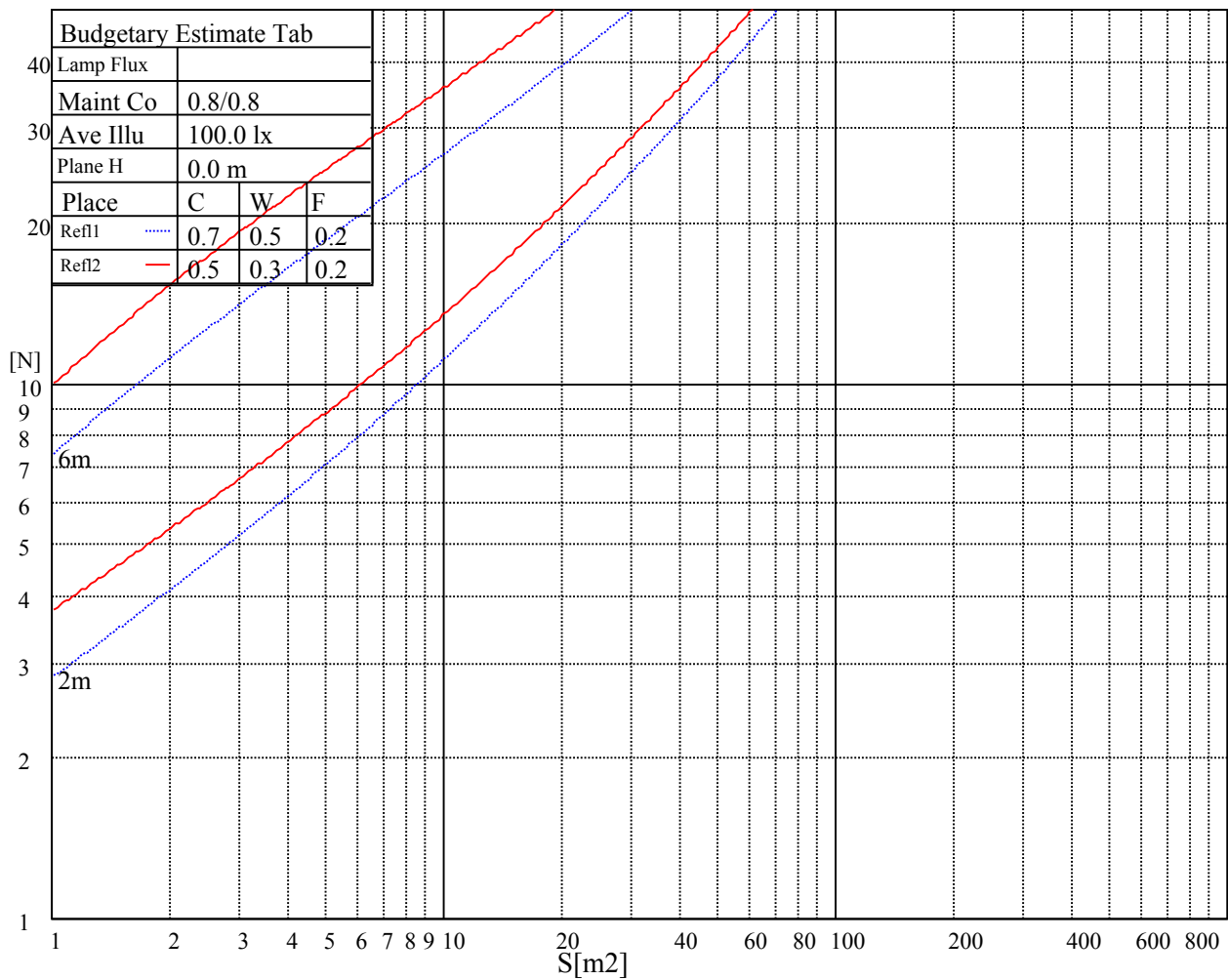
Luminance Limiting Curve



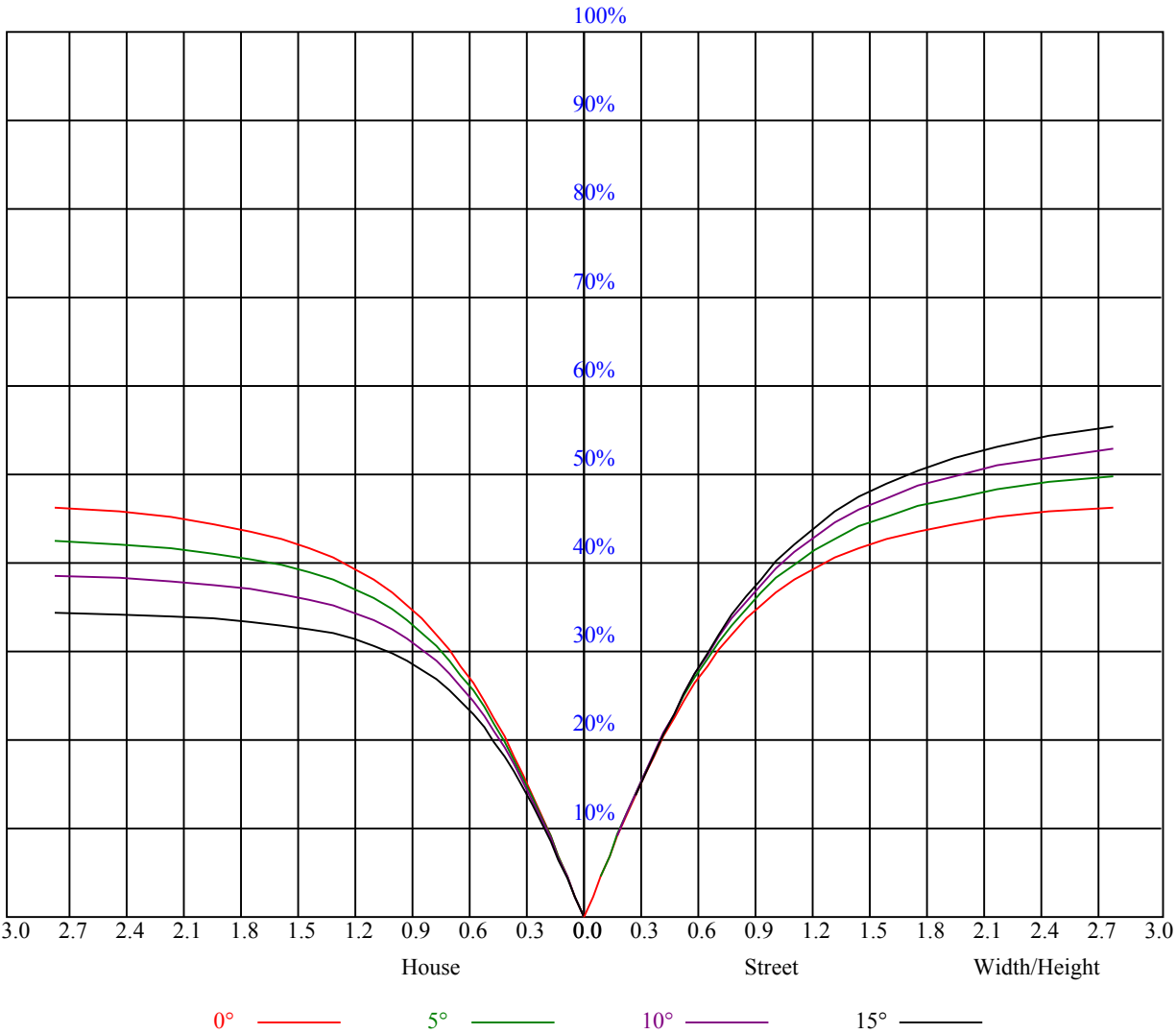
Equipment:
Temperature($^{\circ}\text{C}$): 25.0

Date: 2017-1-10
Humidity(%): 60.0%

Operator: Alcander
Distance(m): 12.87



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	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.97
1	1.04	0.99	0.96	1.01	0.97	0.94	0.96	0.93	0.90	0.92	0.89	0.87	0.88	0.86	0.84	0.81
2	0.91	0.84	0.78	0.88	0.82	0.77	0.84	0.79	0.75	0.81	0.77	0.73	0.77	0.74	0.71	0.68
3	0.80	0.72	0.66	0.78	0.71	0.65	0.75	0.68	0.63	0.72	0.66	0.62	0.69	0.64	0.60	0.58
4	0.71	0.62	0.56	0.69	0.61	0.55	0.67	0.60	0.54	0.64	0.58	0.53	0.61	0.56	0.52	0.50
5	0.64	0.55	0.48	0.62	0.54	0.48	0.60	0.53	0.47	0.57	0.51	0.46	0.55	0.50	0.45	0.43
6	0.57	0.48	0.42	0.56	0.48	0.42	0.54	0.47	0.41	0.52	0.46	0.41	0.50	0.45	0.40	0.38
7	0.52	0.43	0.37	0.51	0.43	0.37	0.49	0.42	0.37	0.48	0.41	0.36	0.46	0.40	0.36	0.34
8	0.47	0.39	0.33	0.47	0.39	0.33	0.45	0.38	0.33	0.44	0.37	0.32	0.42	0.36	0.32	0.30
9	0.44	0.35	0.30	0.43	0.35	0.30	0.41	0.34	0.29	0.40	0.34	0.29	0.39	0.33	0.29	0.27
10	0.40	0.32	0.27	0.40	0.32	0.27	0.38	0.31	0.27	0.37	0.31	0.27	0.36	0.30	0.26	0.25



C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
30.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
60.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
90.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
120.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
150.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
180.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
210.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
240.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
270.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
300.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
330.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70
360.0	75.52	75.39	74.70	73.70	71.93	69.26	65.85	61.76	56.70

C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
30.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
60.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
90.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
120.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
150.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
180.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
210.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
240.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
270.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
300.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
330.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45
360.0	50.22	42.88	35.46	28.93	22.20	16.58	11.25	7.28	4.45

C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
30.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
60.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
90.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
120.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
150.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
180.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
210.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
240.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
270.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
300.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
330.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70
360.0	2.36	1.41	1.43	1.58	1.50	1.30	1.12	0.88	0.70

C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
30.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
60.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
90.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
120.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
150.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
180.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
210.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
240.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
270.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
300.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
330.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07
360.0	0.59	0.46	0.41	0.35	0.30	0.26	0.26	0.18	0.07

Intensity data(cd)

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C/γ(°)	180.0
0.0	0.00
30.0	0.00
60.0	0.00
90.0	0.00
120.0	0.00
150.0	0.00
180.0	0.00
210.0	0.00
240.0	0.00
270.0	0.00
300.0	0.00
330.0	0.00
360.0	0.00