



LumCAT: 6060-NW-40W

Luminaire:

Report No:

Voltage(V): 240.7000

Test No:

Current(A): 0.1850

LampCAT:

Power (W): 39.8000

Lamp flux(lm)

PF: 0.8910

Number of Lamps: 1

Ballast type: /

Length(mm): 600

Width(mm): 600

Phm Type: C

Height(mm): 10

Photometric Results

Lumens(lm): 3231.06

Lumens(lm)/Power(W): 81.18

Central intensity(cd): 1099.590

Maximum intensity(cd): 1103.349

Angle of maximum intensity: C=60.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=113.9

[C90/270]Total=113.8

Field angle(10%Imax): [C0/180]Total=164.6

[C90/270]Total=164.7

Beam angle of C60plane: 113.89

Maximum s/h(1/2): C0_180=1.26 C90_270=1.28

Maximum s/h(1/4): C0_180=1.80 C90_270=1.40

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 77.399%



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Zonal flux distribution table

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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1101.470	.000	.000	.000%	.000%
5.0	1096.614	26.277	26.277	.813%	.813%
10.0	1082.203	77.943	104.221	2.412%	3.226%
15.0	1059.021	127.016	231.237	3.931%	7.157%
20.0	1025.657	171.807	403.043	5.317%	12.474%
25.0	984.149	210.792	613.835	6.524%	18.998%
30.0	935.278	242.905	856.740	7.518%	26.516%
35.0	879.046	267.172	1123.912	8.269%	34.785%
40.0	813.728	282.426	1406.338	8.741%	43.526%
45.0	741.832	288.025	1694.363	8.914%	52.440%
50.0	665.706	284.414	1978.776	8.802%	61.242%
55.0	584.412	271.817	2250.594	8.413%	69.655%
60.0	498.105	250.221	2500.814	7.744%	77.399%
65.0	409.918	220.742	2721.556	6.832%	84.231%
70.0	321.575	185.219	2906.775	5.732%	89.964%
75.0	234.015	145.223	3051.998	4.495%	94.458%
80.0	147.865	102.181	3154.178	3.162%	97.621%
85.0	66.414	58.225	3212.403	1.802%	99.423%
90.0	1.723	18.656	3231.060	.577%	100.000%



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Zonal flux distribution table

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ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixt
0-30	856.74	26.52%
0-40	1406.34	43.53%
0-60	2500.81	77.40%
0-90	3212.40	99.42%
0-120	3212.40	99.42%
0-180	3231.06	100.00%
60-90	961.81	29.77%
90-120	0.00	0.00%
90-130	0.00	0.00%
90-150	0.00	0.00%
90-180	0.00	0.00%
0-61.90	2584.85	80.00%

ZONAL LUMEN SUMMARY

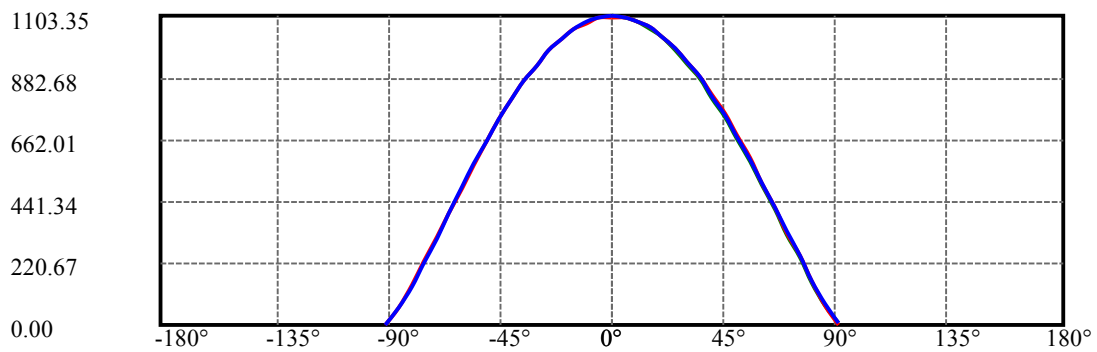
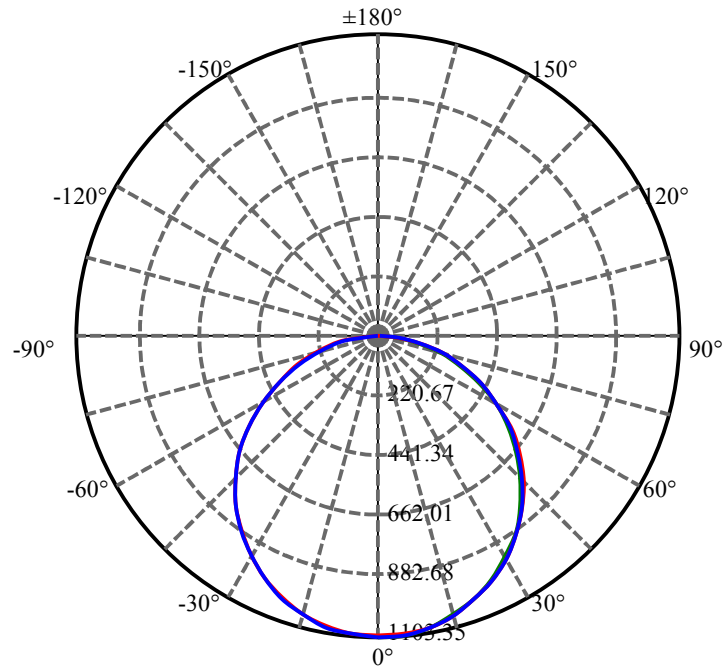
0-10	104.22
10-20	298.82
20-30	453.70
30-40	549.60
40-50	572.44
50-60	522.04
60-70	405.96
70-80	247.40
80-90	58.22
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



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Light Distribution Curve [Unit:cd]

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C60(Max):

C0/C180:

C90/C270:

Field angle(10%Imax):C0/180Left:81.9 Right:82.7

:C90/270Left:81.7 Right:83.0

Beam Angle(50%Imax):C0/180Left:56.3 Right:57.6

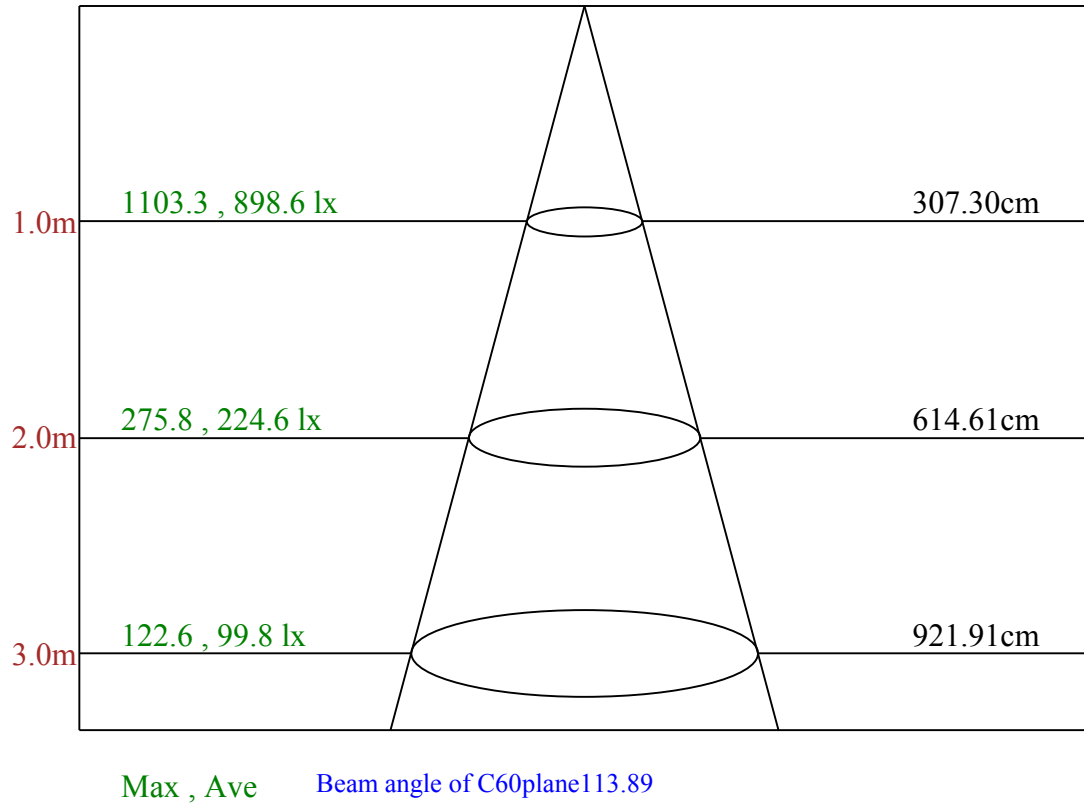
:C90/270Left:56.4 Right:57.4



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Lux distance Curve

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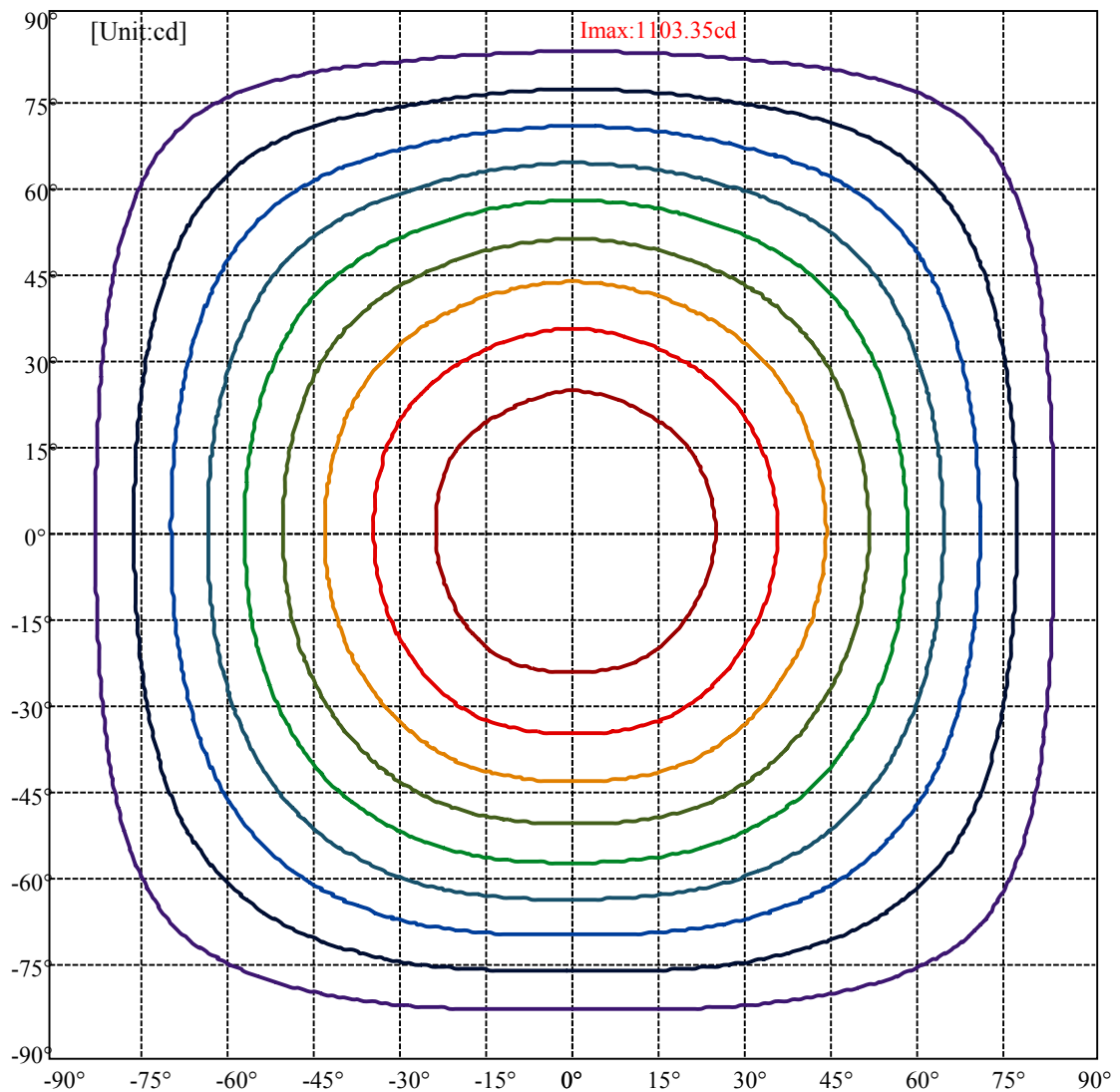




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ISO-Intensity(V-H)

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(10%Imax)	110.147	
(20%Imax)	220.294	
(30%Imax)	330.441	
(40%Imax)	440.588	
(50%Imax)	550.735	
(60%Imax)	660.882	
(70%Imax)	771.029	
(80%Imax)	881.176	
(90%Imax)	991.323	

Equipment:
Temperature(°C): 25.0

Date: 2016-4-23
Humidity(%): 65.0%

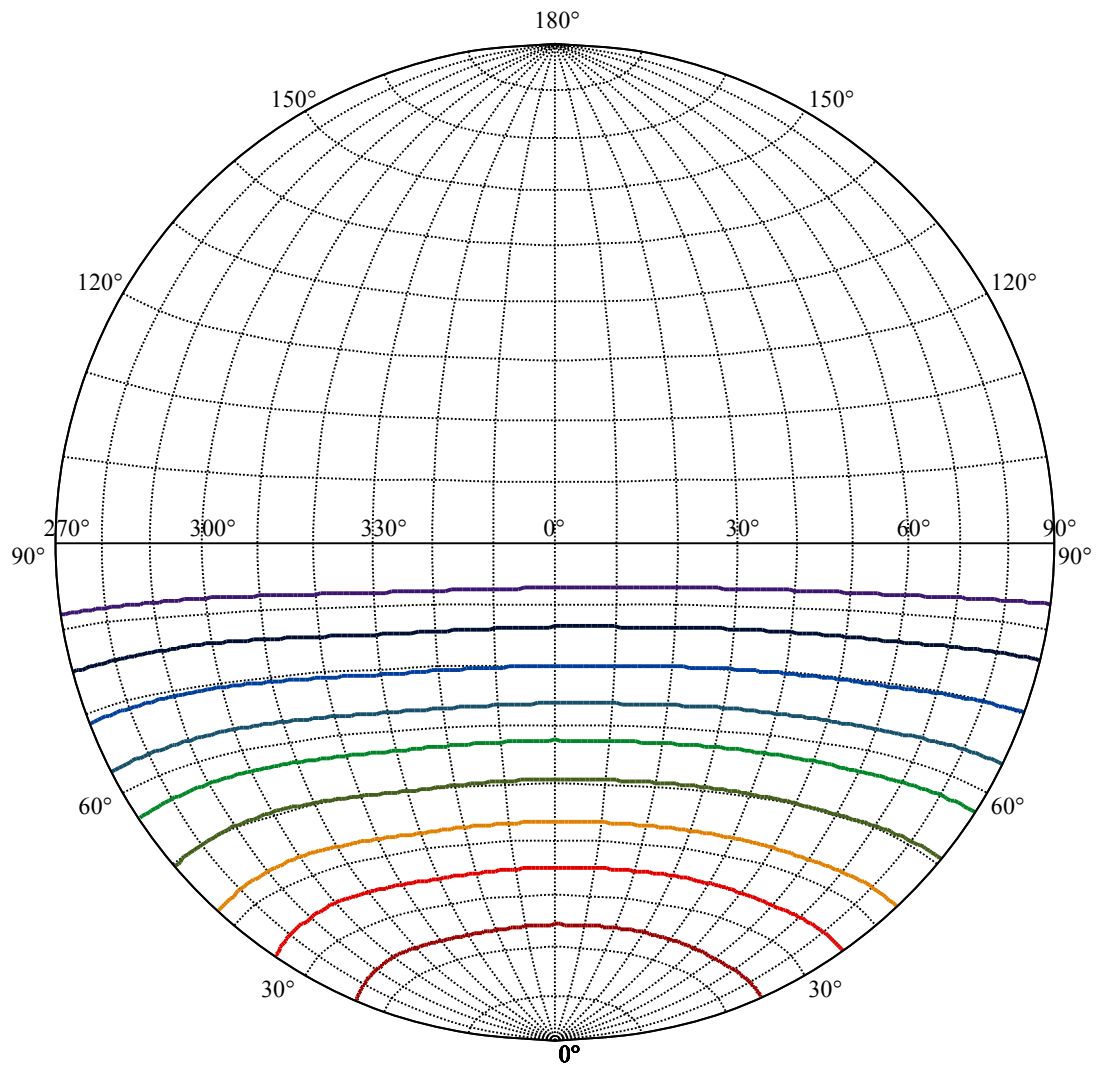
Operator: fmd
Distance(m): 13.71



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ISO candela diagram on circular web

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House

[Unit:cd]

Road

Imax:1103.35

(10%Imax) 110.335

(20%Imax) 220.67

(30%Imax) 331.005

(40%Imax) 441.34

(50%Imax) 551.675

(60%Imax) 662.01

(70%Imax) 772.344

(80%Imax) 882.679

(90%Imax) 993.014

Equipment:
Temperature(°C): 25.0

Date: 2016-4-23
Humidity(%): 65.0%

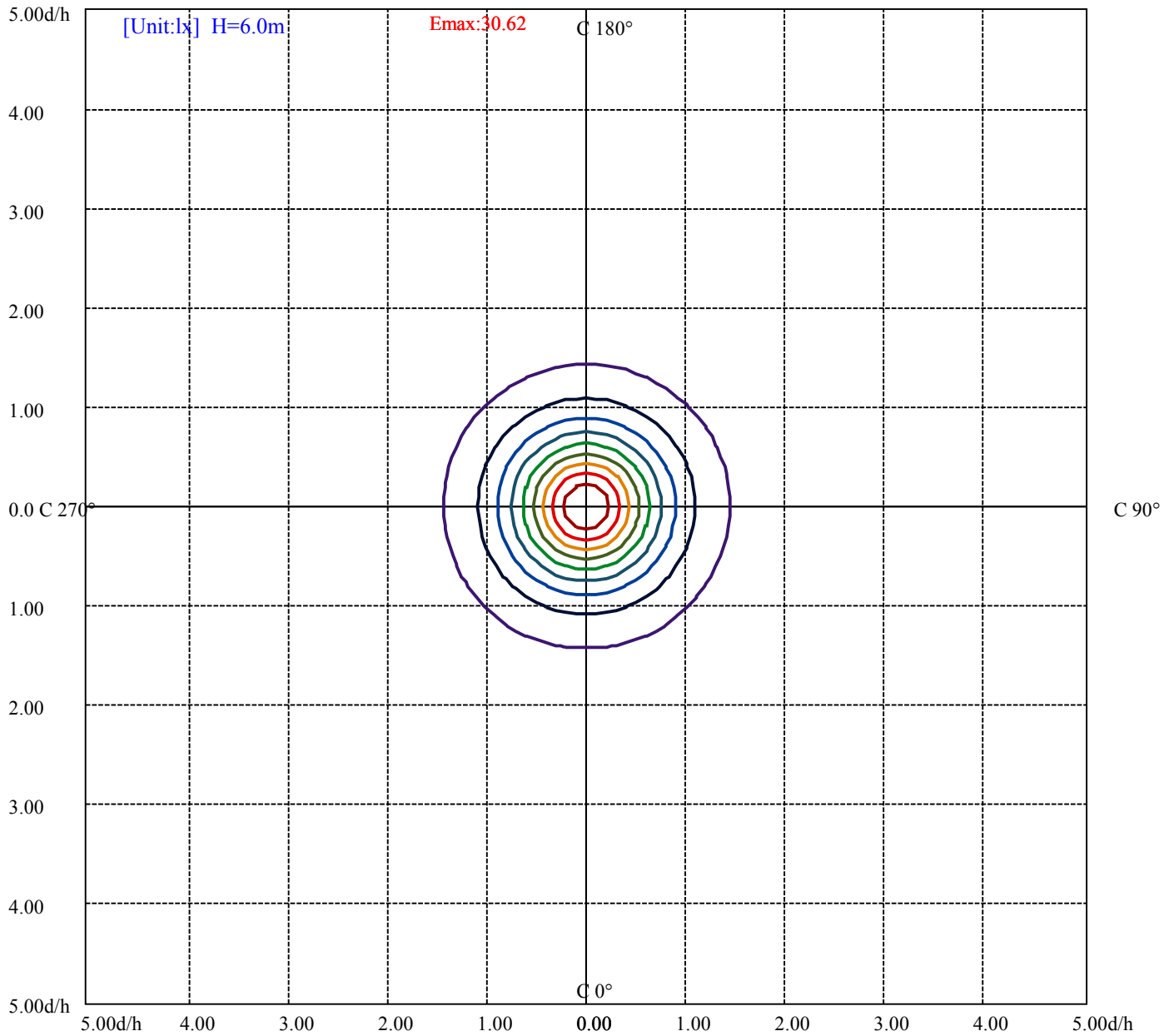
Operator: fmd
Distance(m): 13.71



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ISO illuminance diagram

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(10%Emax)	3.06225	—
(20%Emax)	6.1245	—
(30%Emax)	9.186749	—
(40%Emax)	12.249	—
(50%Emax)	15.31125	—
(60%Emax)	18.3735	—
(70%Emax)	21.43575	—
(80%Emax)	24.498	—
(90%Emax)	27.56025	—

Equipment:
Temperature(°C): 25.0

Date: 2016-4-23
Humidity(%): 65.0%

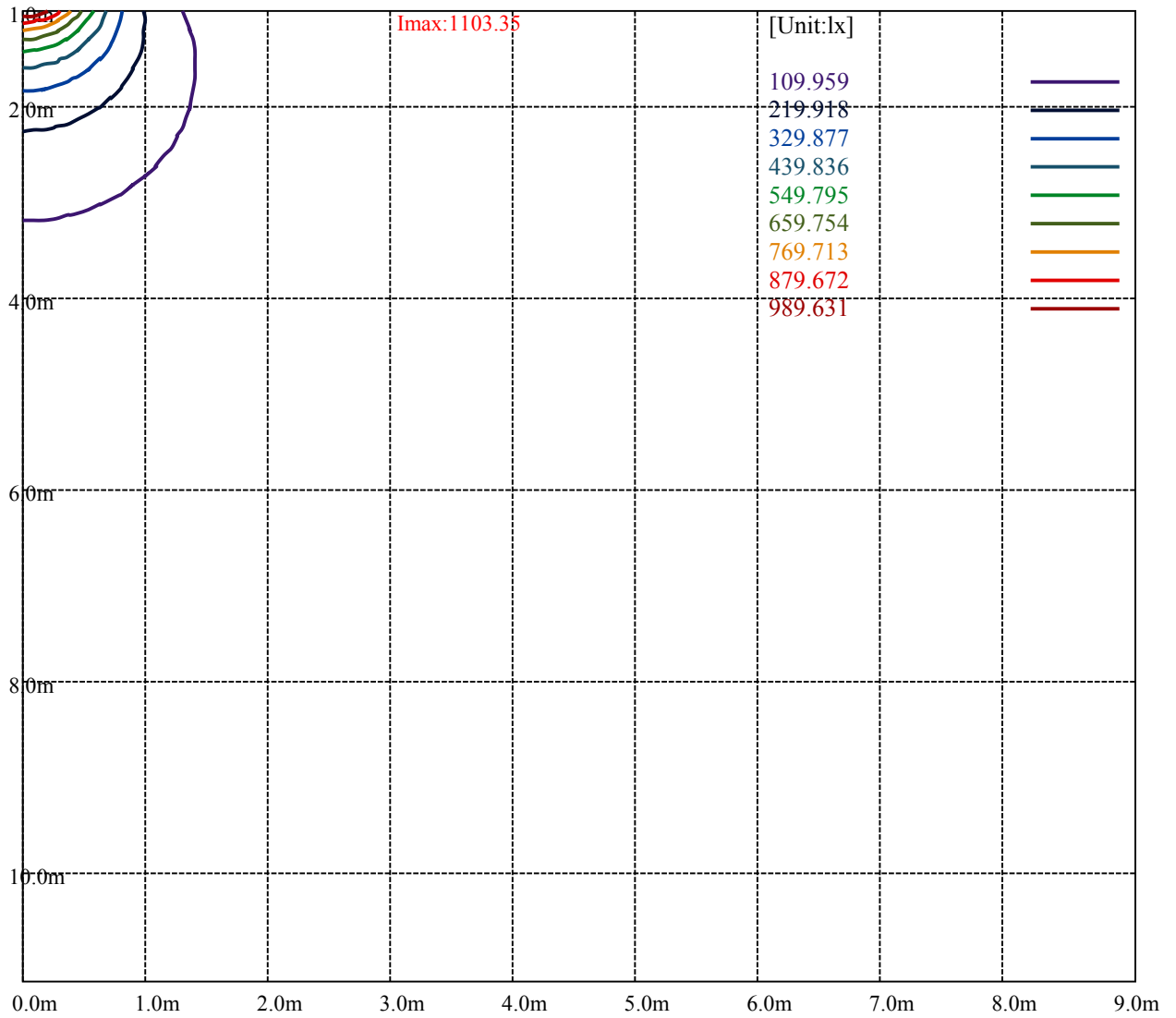
Operator: fmd
Distance(m): 13.71



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Space ISO Lux diagram

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Equipment:
Temperature(°C): 25.0

Date: 2016-4-23
Humidity(%): 65.0%

Operator: fmd
Distance(m): 13.71



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Luminance Limiting Curve(no luminous side)

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Luminance Table

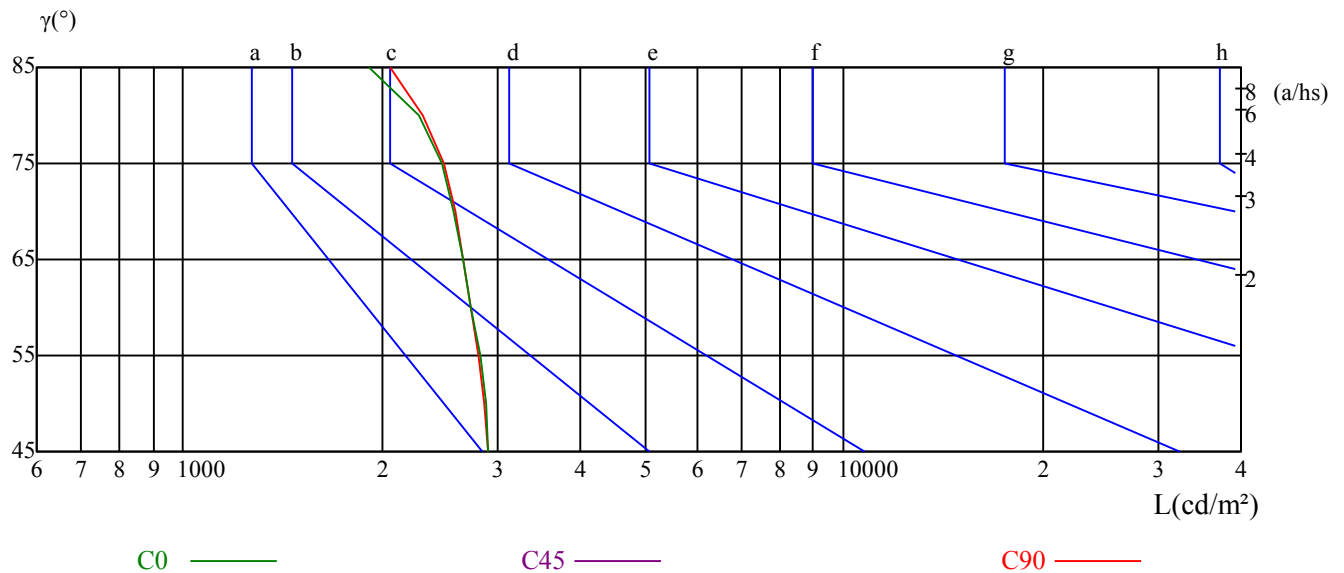
γ	45	50	55	60	65	70	75	80	85
C0	2905	2867	2827	2730	2660	2569	2469	2280	1912
C45	0	0	0	0	0	0	0	0	0
C90	2891	2851	2801	2730	2660	2584	2488	2308	2063

L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
2687	2687	0	2522	2501	0	2097	2157	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($^{\circ}$ C): 25.0

Date: 2016-4-23
Humidity(%): 65.0%

Operator: fmd
Distance(m): 13.71



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UGR Glare

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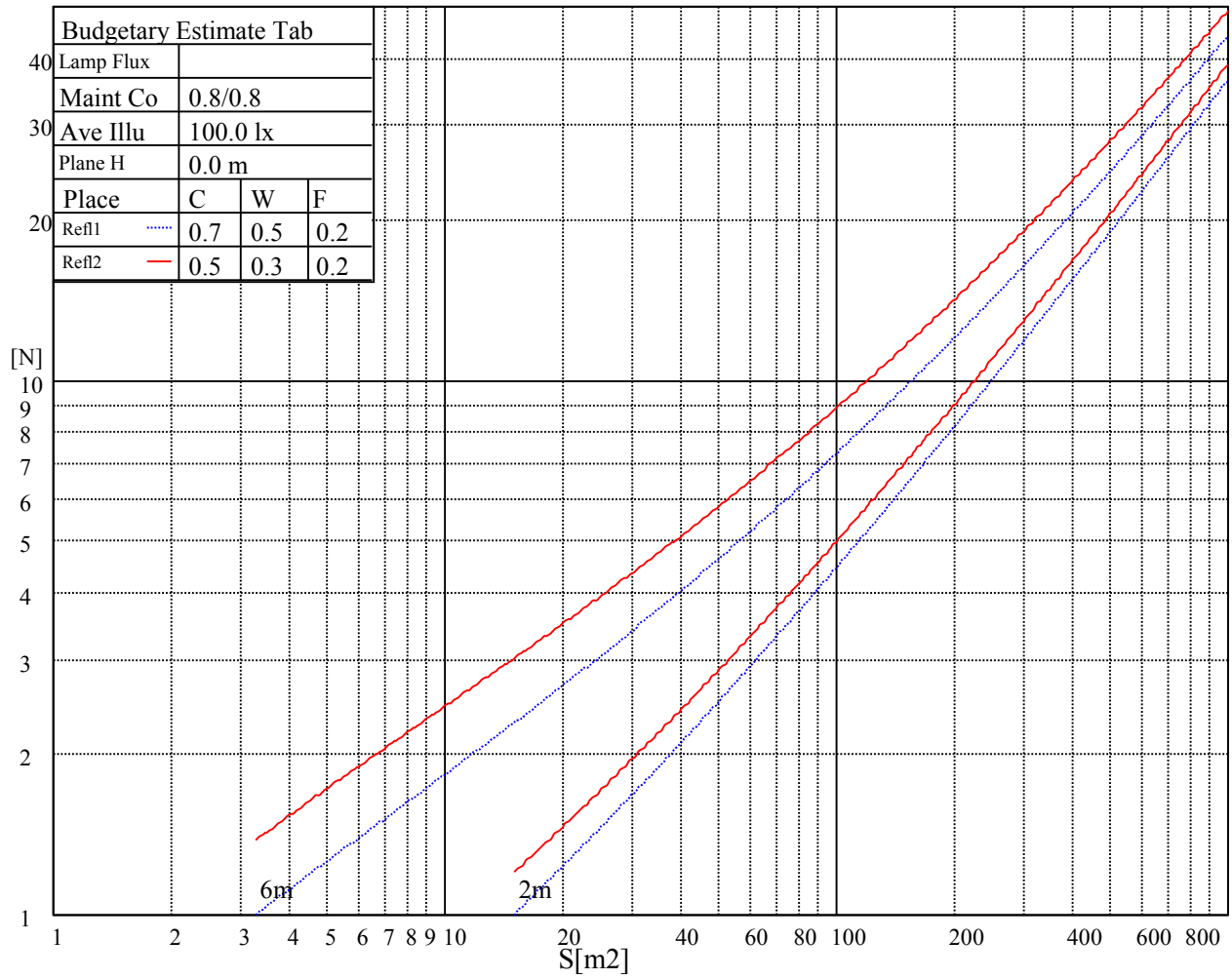
Illuminatin assessment acconding UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	10.6	12.0	10.9	12.2	12.5	10.7	12.1	11.0	12.3	12.6
	3H	12.3	13.6	12.7	13.9	14.1	12.4	13.6	12.7	13.9	14.2
	4H	12.9	14.0	13.3	14.3	14.6	13.0	14.0	13.3	14.4	14.7
	6H	13.6	14.6	13.9	15.0	15.3	13.6	14.7	14.0	15.0	15.3
	8H	13.8	14.9	14.2	15.2	15.6	13.9	14.9	14.2	15.3	15.6
	12H	13.8	14.6	14.2	15.0	15.4	13.8	14.7	14.3	15.0	15.5
4H	2H	11.1	12.2	11.5	12.5	12.9	11.2	12.3	11.6	12.6	12.9
	3H	13.0	13.9	13.5	14.3	14.7	13.1	13.9	13.5	14.3	14.7
	4H	14.0	14.8	14.4	15.2	15.6	14.0	14.9	14.5	15.3	15.7
	6H	14.7	15.6	15.2	16.0	16.4	14.8	15.6	15.2	16.0	16.4
	8H	14.9	15.4	15.4	15.9	16.4	15.0	15.4	15.5	15.9	16.4
	12H	15.1	15.6	15.6	16.1	16.6	15.2	15.6	15.7	16.1	16.6
8H	4H	14.3	14.7	14.8	15.2	15.7	14.3	14.8	14.8	15.3	15.8
	6H	15.2	15.7	15.7	16.1	16.6	15.3	15.7	15.8	16.2	16.7
	8H	15.6	16.1	16.1	16.5	17.0	15.6	16.1	16.1	16.6	17.1
	12H	15.9	16.4	16.4	16.8	17.4	15.9	16.4	16.4	16.9	17.4
12H	4H	14.3	14.8	14.8	15.3	15.8	14.4	14.9	14.9	15.3	15.9
	6H	15.3	15.8	15.8	16.3	16.8	15.4	15.8	15.9	16.3	16.8
	8H	15.7	16.2	16.2	16.7	17.2	15.8	16.3	16.3	16.7	17.3
Variation with the observer position at spacings:											
S = 1.0H		0.2/-0.7					0.2/-0.7				
S = 1.5H		0.5/-0.6					0.6/-0.6				
S = 2.0H		0.7/-0.7					0.7/-0.7				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		5.5					5.6				



6060-NW-40W

Budgetary Estimate Table

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Equipment:
Temperature(°C): 25.0

Date: 2016-4-23
Humidity(%): 65.0%

Operator: fmd
Distance(m): 13.71



6060-NW-40W

Utilization factor table for indoor luminaire

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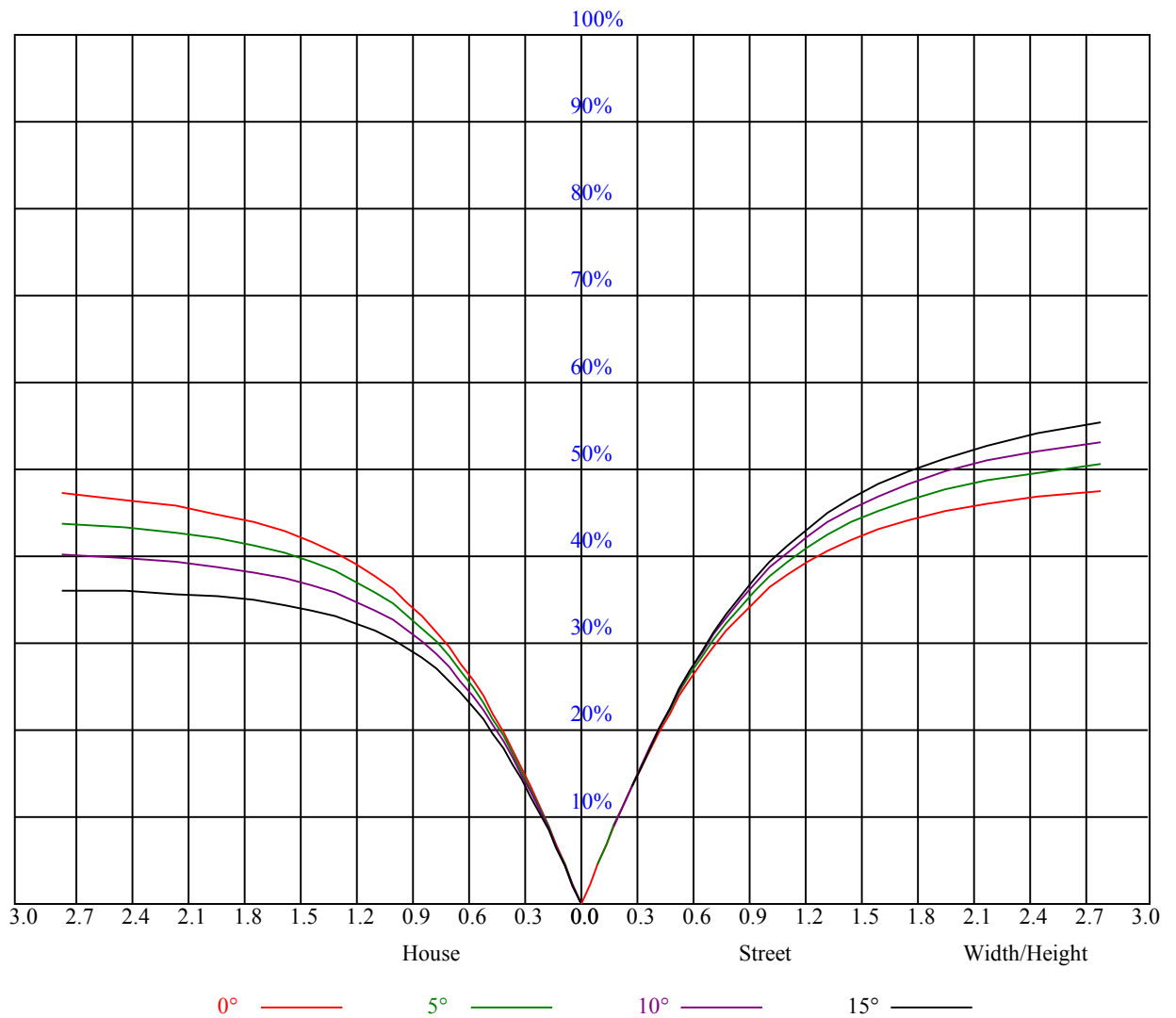
RHOC	80			70			50			30			10			0
RHOW	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.03	0.99	0.95	1.01	0.97	0.93	0.97	0.93	0.90	0.93	0.90	0.88	0.89	0.87	0.85	0.83
2	0.90	0.83	0.77	0.88	0.81	0.76	0.84	0.79	0.74	0.81	0.76	0.72	0.78	0.74	0.71	0.69
3	0.79	0.70	0.64	0.77	0.69	0.63	0.74	0.67	0.62	0.71	0.66	0.61	0.69	0.64	0.60	0.58
4	0.70	0.61	0.54	0.68	0.60	0.53	0.66	0.58	0.53	0.63	0.57	0.52	0.61	0.56	0.51	0.49
5	0.62	0.53	0.46	0.61	0.52	0.46	0.59	0.51	0.45	0.57	0.50	0.45	0.55	0.49	0.44	0.42
6	0.56	0.47	0.40	0.55	0.46	0.40	0.53	0.45	0.40	0.51	0.44	0.39	0.50	0.44	0.39	0.37
7	0.51	0.42	0.35	0.50	0.41	0.35	0.48	0.41	0.35	0.47	0.40	0.35	0.45	0.39	0.35	0.32
8	0.46	0.37	0.32	0.45	0.37	0.31	0.44	0.37	0.31	0.43	0.36	0.31	0.42	0.35	0.31	0.29
9	0.42	0.34	0.28	0.42	0.34	0.28	0.41	0.33	0.28	0.39	0.33	0.28	0.38	0.32	0.28	0.26
10	0.39	0.31	0.26	0.38	0.31	0.26	0.37	0.30	0.26	0.37	0.30	0.25	0.36	0.30	0.25	0.24



6060-NW-40W

Coefficient Utilization Curve

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Intensity data(cd)										Page: 15 Total:15			
C/γ(°)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0				
0.0	1099.59	1095.83	1082.67	1060.12	1028.16	988.69	941.70	885.31	821.40				
30.0	1101.47	1097.71	1082.67	1062.00	1028.16	988.69	941.70	885.31	817.64				
60.0	1103.35	1097.71	1082.67	1058.24	1026.28	983.05	934.18	877.79	812.00				
90.0	1101.47	1097.71	1084.55	1062.00	1028.16	988.69	941.70	885.31	817.64				
120.0	1101.47	1095.83	1080.79	1056.36	1024.40	981.17	932.30	875.91	812.00				
150.0	1101.47	1097.71	1082.67	1058.24	1026.28	986.81	936.06	881.55	813.88				
180.0	1099.59	1093.95	1077.03	1054.48	1020.65	977.41	928.54	870.27	808.25				
210.0	1101.47	1095.83	1080.79	1056.36	1022.53	979.29	930.42	872.15	808.25				
240.0	1103.35	1097.71	1084.55	1062.00	1026.28	986.81	936.06	881.55	813.88				
270.0	1101.47	1095.83	1082.67	1058.24	1022.53	979.29	928.54	872.15	808.25				
300.0	1101.47	1097.71	1084.55	1062.00	1028.16	986.81	937.94	883.43	817.64				
330.0	1101.47	1095.83	1080.79	1058.24	1026.28	983.05	934.18	877.79	813.88				
360.0	1099.59	1095.83	1082.67	1060.12	1028.16	988.69	941.70	885.31	821.40				
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0				
0.0	751.86	676.67	597.73	505.62	419.16	330.82	244.35	156.01	71.43				
30.0	748.10	672.91	593.97	507.50	421.04	332.70	246.23	157.89	73.31				
60.0	738.70	663.51	582.69	499.98	409.76	323.30	236.83	152.25	71.43				
90.0	748.10	672.91	592.09	505.62	419.16	332.70	246.23	157.89	77.07				
120.0	738.70	661.63	578.93	490.59	404.12	317.66	229.32	146.61	67.67				
150.0	744.34	671.03	590.21	501.86	413.52	325.18	238.71	150.37	67.67				
180.0	734.94	655.99	571.41	488.71	398.48	312.02	225.56	140.97	60.15				
210.0	734.94	657.87	577.05	492.47	402.24	313.90	223.68	139.09	58.27				
240.0	744.34	667.27	586.45	499.98	415.40	323.30	233.08	144.73	63.91				
270.0	733.06	655.99	575.17	490.59	398.48	310.14	219.92	137.21	58.27				
300.0	746.22	671.03	586.45	498.10	411.64	321.42	234.96	146.61	63.91				
330.0	738.70	661.63	580.81	496.23	406.00	315.78	229.32	144.73	63.91				
360.0	751.86	676.67	597.73	505.62	419.16	330.82	244.35	156.01	71.43				
C/γ(°)	90.0												
0.0	1.88												
30.0	3.76												
60.0	3.76												
90.0	5.64												
120.0	3.76												
150.0	1.88												
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	1.88												