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Nata

Client:

LumCAT: 3-1550-A3

Luminaire: 99.02.73.172+92.76.365.00

Report No:

Voltage(V): 34.0200

Test No: GC20190823010

Current(A): 0.4480

LampCAT: TRIDONIC SLE 15MM G7

Power (W): 15.2400

Lamp flux(lm): 2050.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 78

Width(mm): 78

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1718.07, Efficiency(%): 83.81% , Luminous Efficacy(lm/W): 112.73

Central intensity(cd): 2885.906, Maximum intensity(cd): 2885.906

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=44.0

[C90/270]Total=44.0

Field angle(10%Imax): [C0/180]Total=74.0

[C90/270]Total=74.0

Maximum s/h(1/2): C0_180=0.70 C90_270=0.70

Maximum s/h(1/4): C0_180=0.73 C90_270=0.73

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 83.81%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.486%

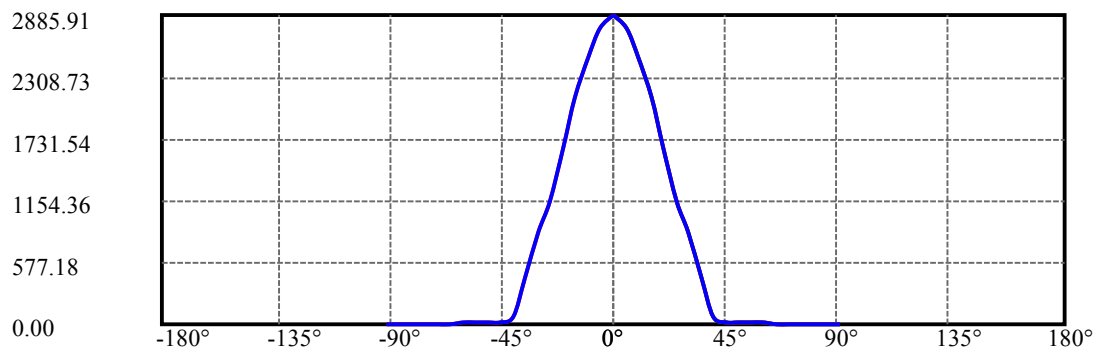
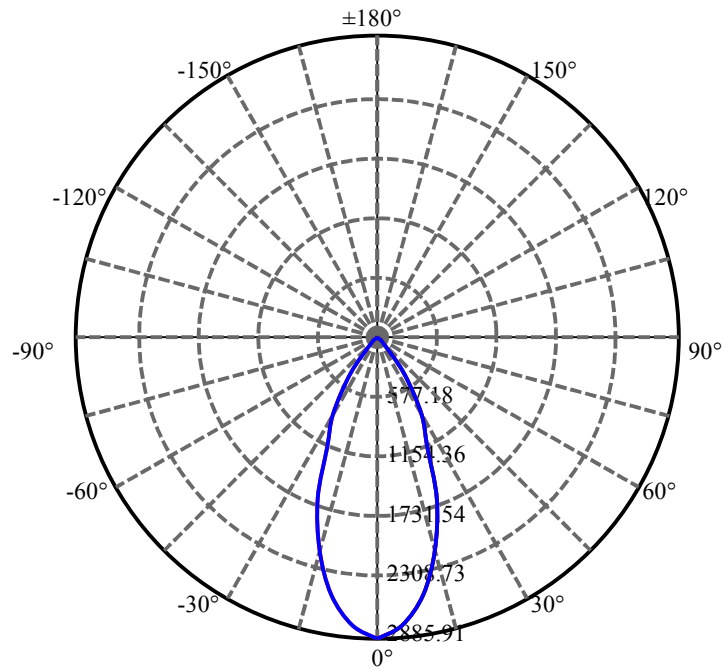
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2885.906	0.000	0	.000%	.000%
5.0	2765.672	67.563	67.563	3.296%	3.932%
10.0	2492.367	188.097	255.66	9.175%	14.881%
15.0	2113.734	273.231	528.89	13.328%	30.784%
20.0	1641.445	309.480	838.37	15.097%	48.797%
25.0	1150.952	292.871	1131.241	14.286%	65.844%
30.0	858.115	254.249	1385.49	12.402%	80.642%
35.0	436.620	190.659	1576.149	9.300%	91.739%
40.0	73.434	85.099	1661.247	4.151%	96.693%
45.0	15.328	16.435	1677.683	.802%	97.649%
50.0	11.095	5.339	1683.022	.260%	97.960%
55.0	9.991	4.585	1687.607	.224%	98.227%
60.0	9.302	4.460	1692.066	.218%	98.486%
65.0	8.782	4.396	1696.463	.214%	98.742%
70.0	8.423	4.357	1700.819	.213%	98.996%
75.0	8.149	4.332	1705.151	.211%	99.248%
80.0	7.995	4.320	1709.471	.211%	99.499%
85.0	7.889	4.316	1713.787	.211%	99.751%
90.0	7.755	4.284	1718.07	.209%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1385.49	67.58%	80.64%
0-40	1661.25	81.04%	96.69%
0-60	1692.07	82.54%	98.49%
0-90	1713.79	83.60%	99.75%
0-120	1713.79	83.60%	99.75%
0-180	1718.07	83.81%	100.00%
60-90	26.18	1.28%	1.52%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-29.78	1374.46	67.05%	80.00%

ZONAL LUMEN SUMMARY

0-10	255.66
10-20	582.71
20-30	547.12
30-40	275.76
40-50	21.77
50-60	9.04
60-70	8.75
70-80	8.65
80-90	4.32
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



C0(Max):

C0/C180:

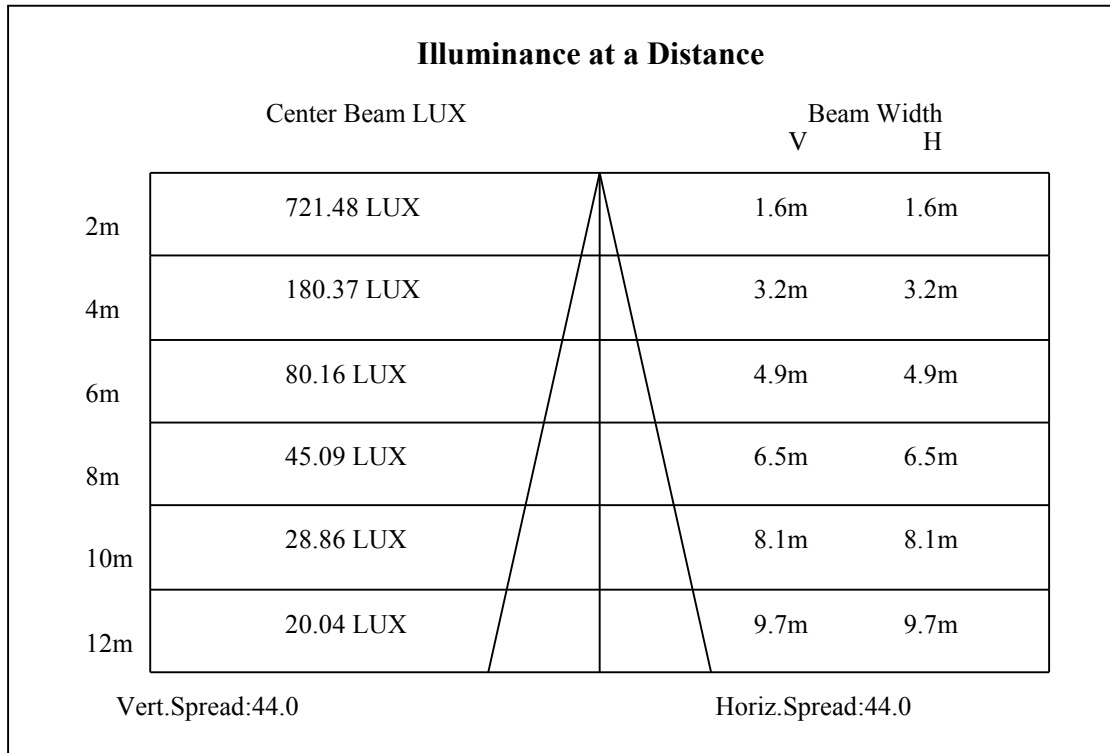
C90/C270:

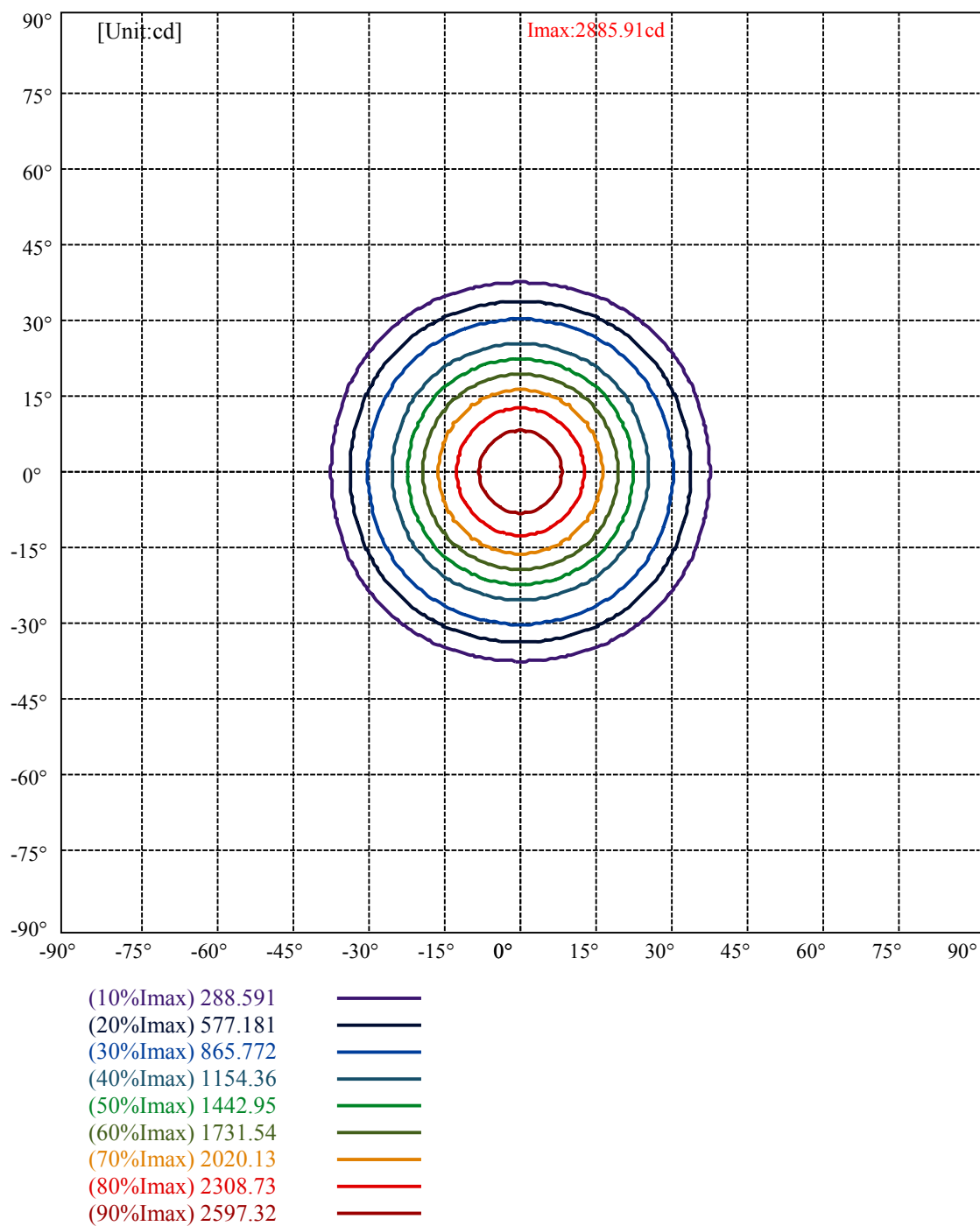
Field angle(10%Imax):C0/180Left:37.0 Right:37.0

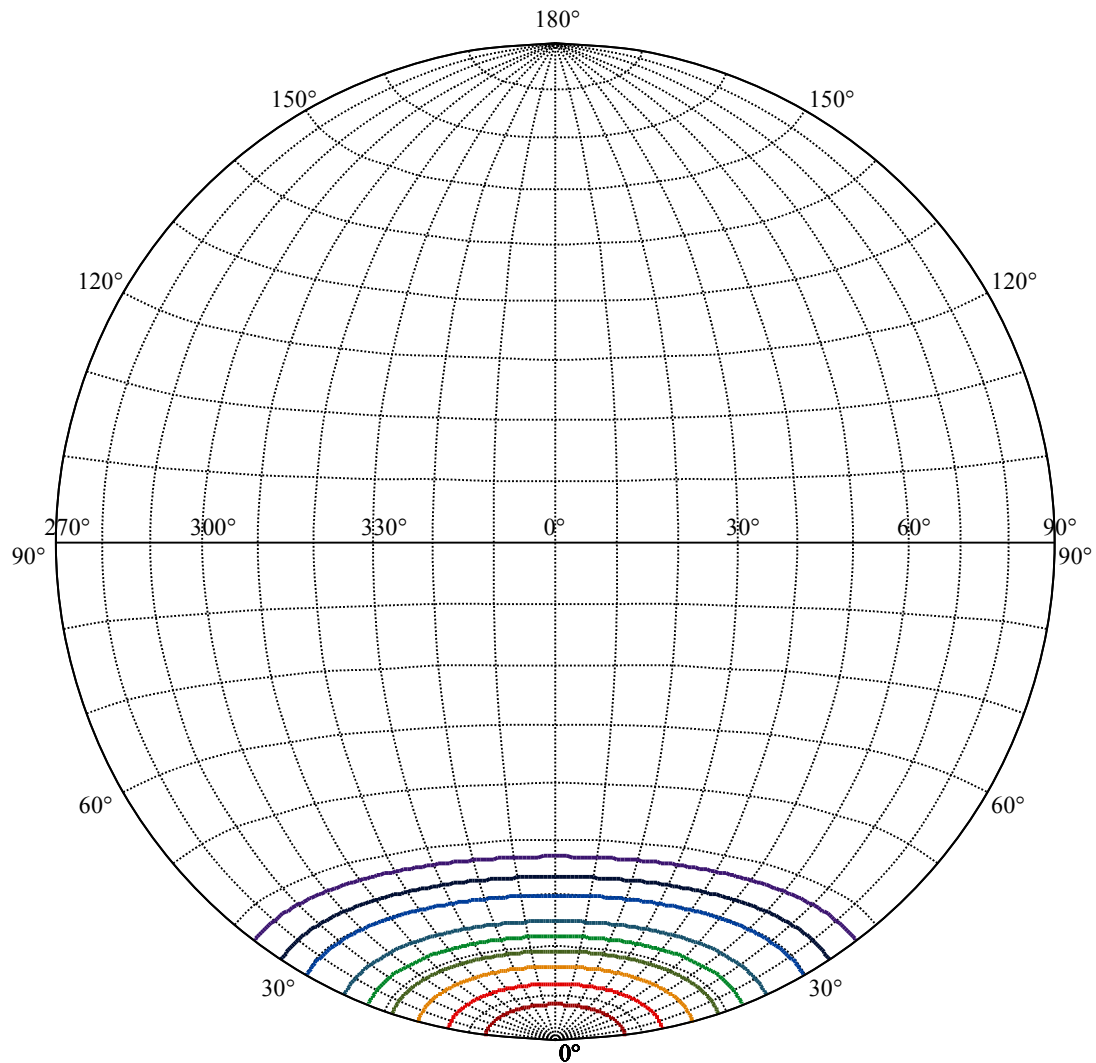
:C90/270Left:37.0 Right:37.0

Beam Angle(50%Imax):C0/180Left:22.0 Right:22.0

:C90/270Left:22.0 Right:22.0







House

[Unit:cd]

Road

Imax:2885.91

(10%Imax) 288.591

(20%Imax) 577.181

(30%Imax) 865.772

(40%Imax) 1154.36

(50%Imax) 1442.95

(60%Imax) 1731.54

(70%Imax) 2020.13

(80%Imax) 2308.73

(90%Imax) 2597.32

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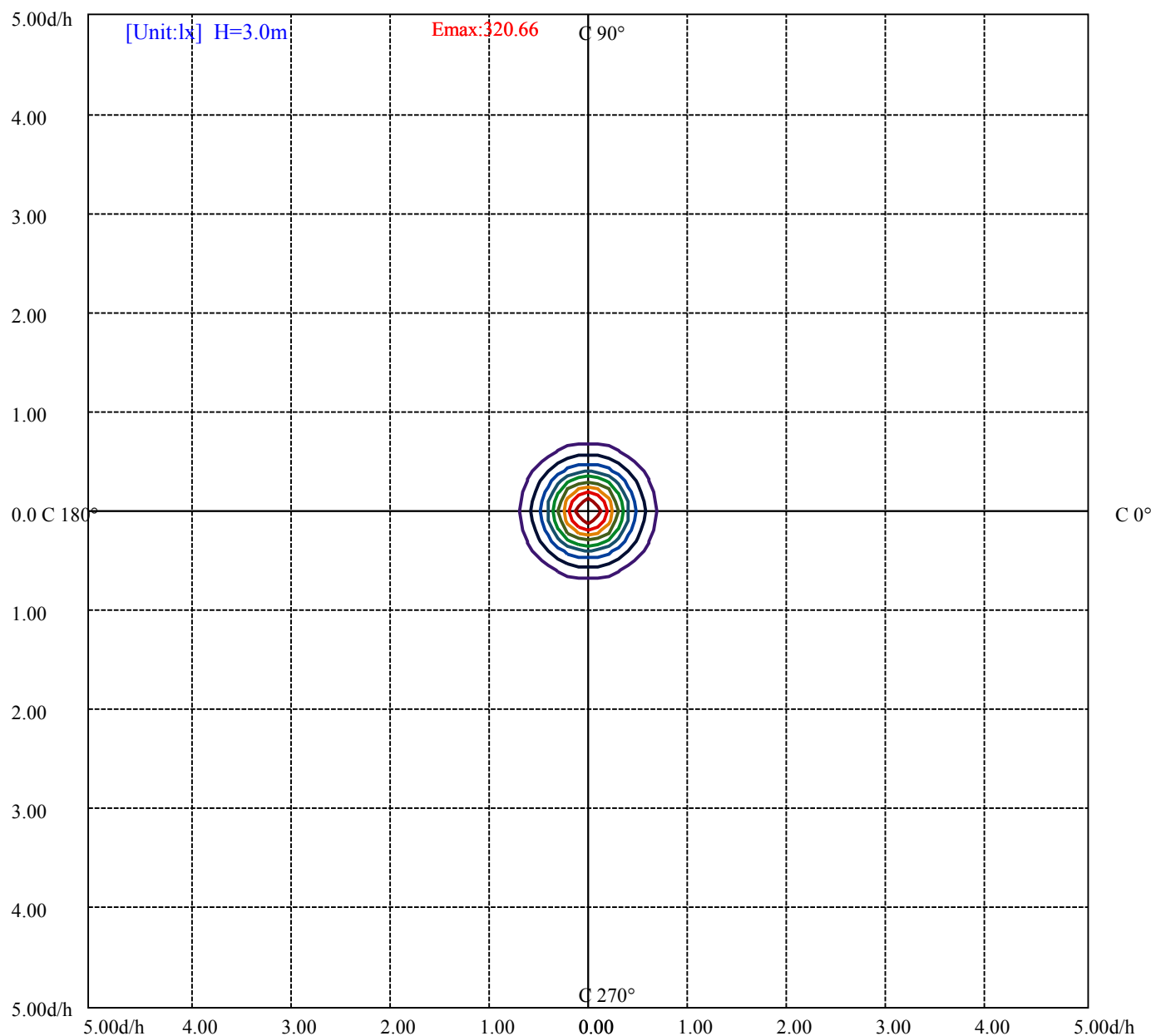
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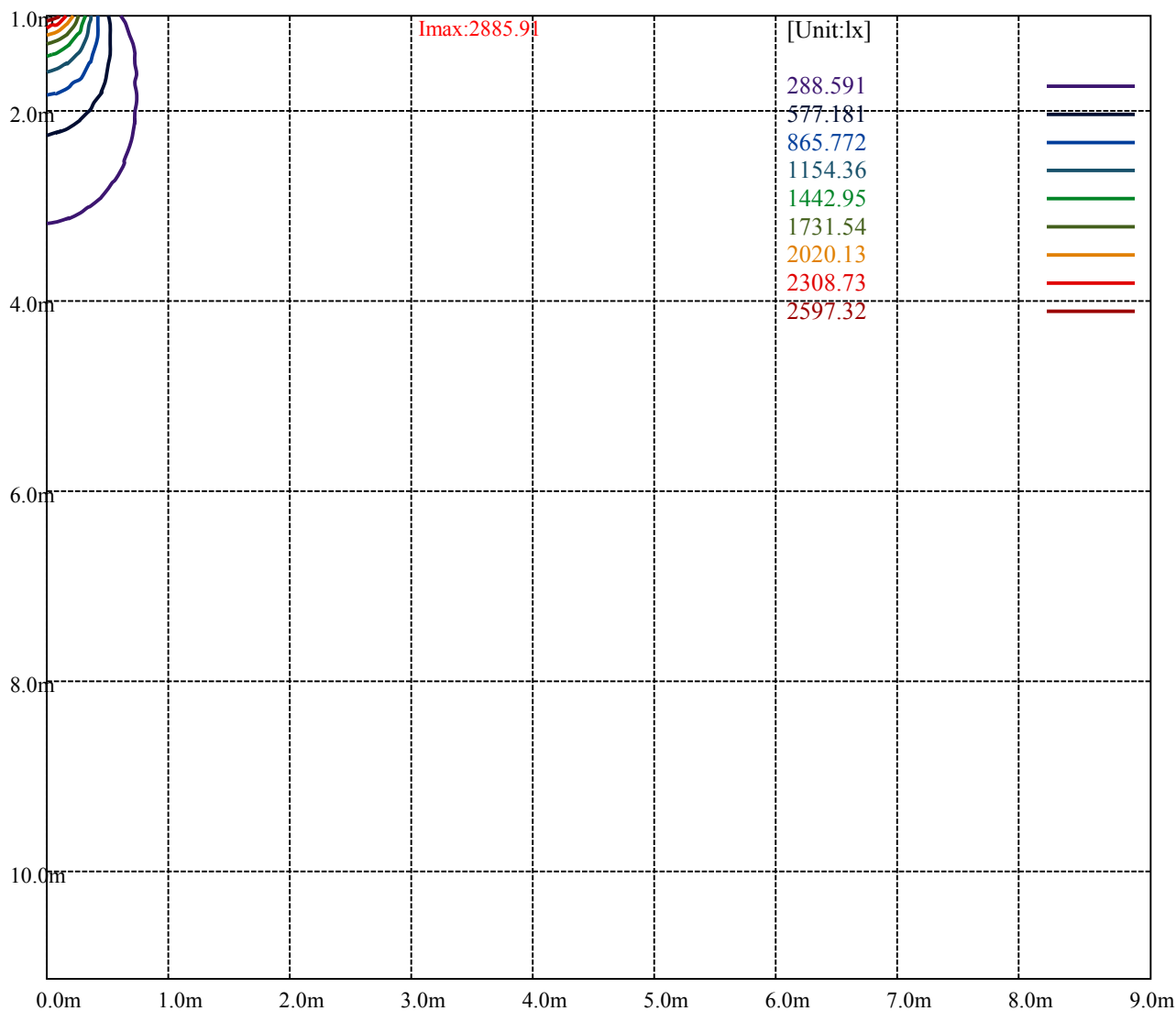
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(10%Emax)	32.06556	
(20%Emax)	64.13123	
(30%Emax)	96.19678	
(40%Emax)	128.2622	
(50%Emax)	160.3278	
(60%Emax)	192.3933	
(70%Emax)	224.4589	
(80%Emax)	256.5244	
(90%Emax)	288.59	



Luminance Table

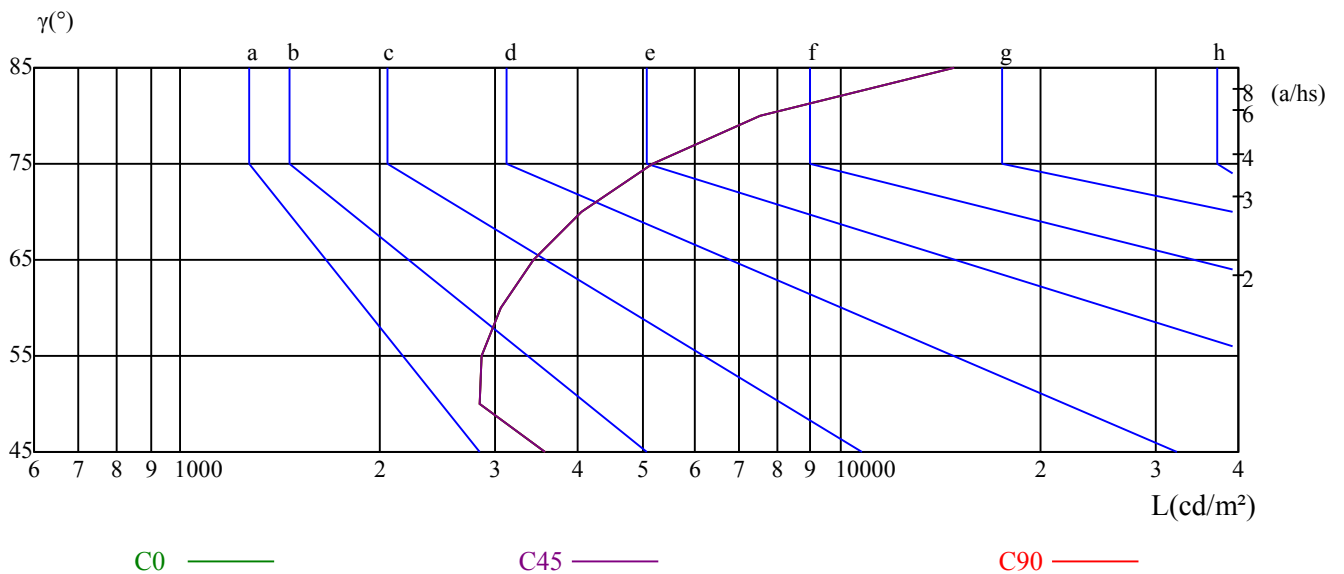
γ	45	50	55	60	65	70	75	80	85
C0	3563	2837	2863	3058	3416	4048	5175	7567	14878
C45	3563	2837	2863	3058	3416	4048	5175	7567	14878
C90	3563	2837	2863	3058	3416	4048	5175	7567	14878

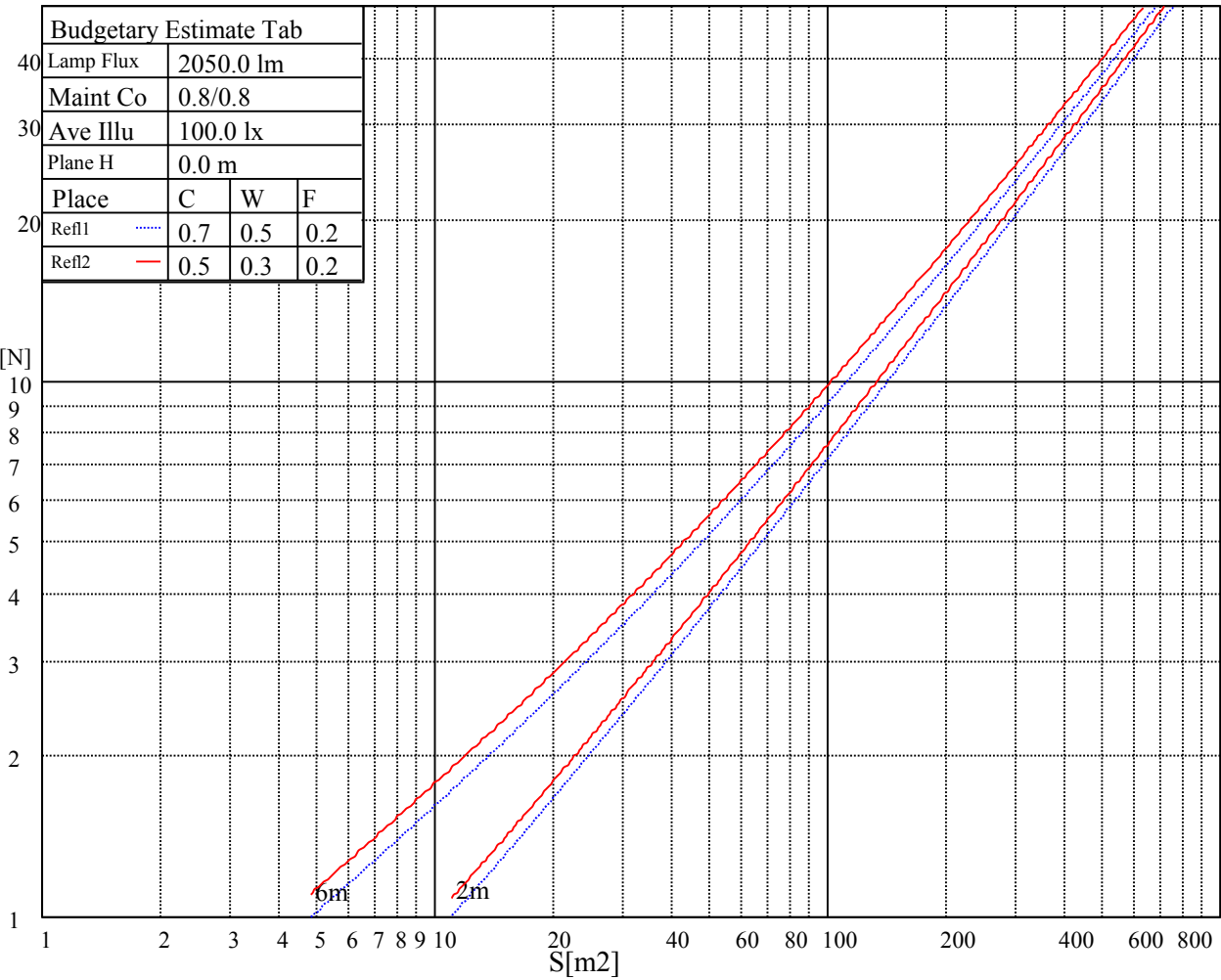
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3416	3416	3416	5175	5175	5175	14878	14878	14878

Glare Table

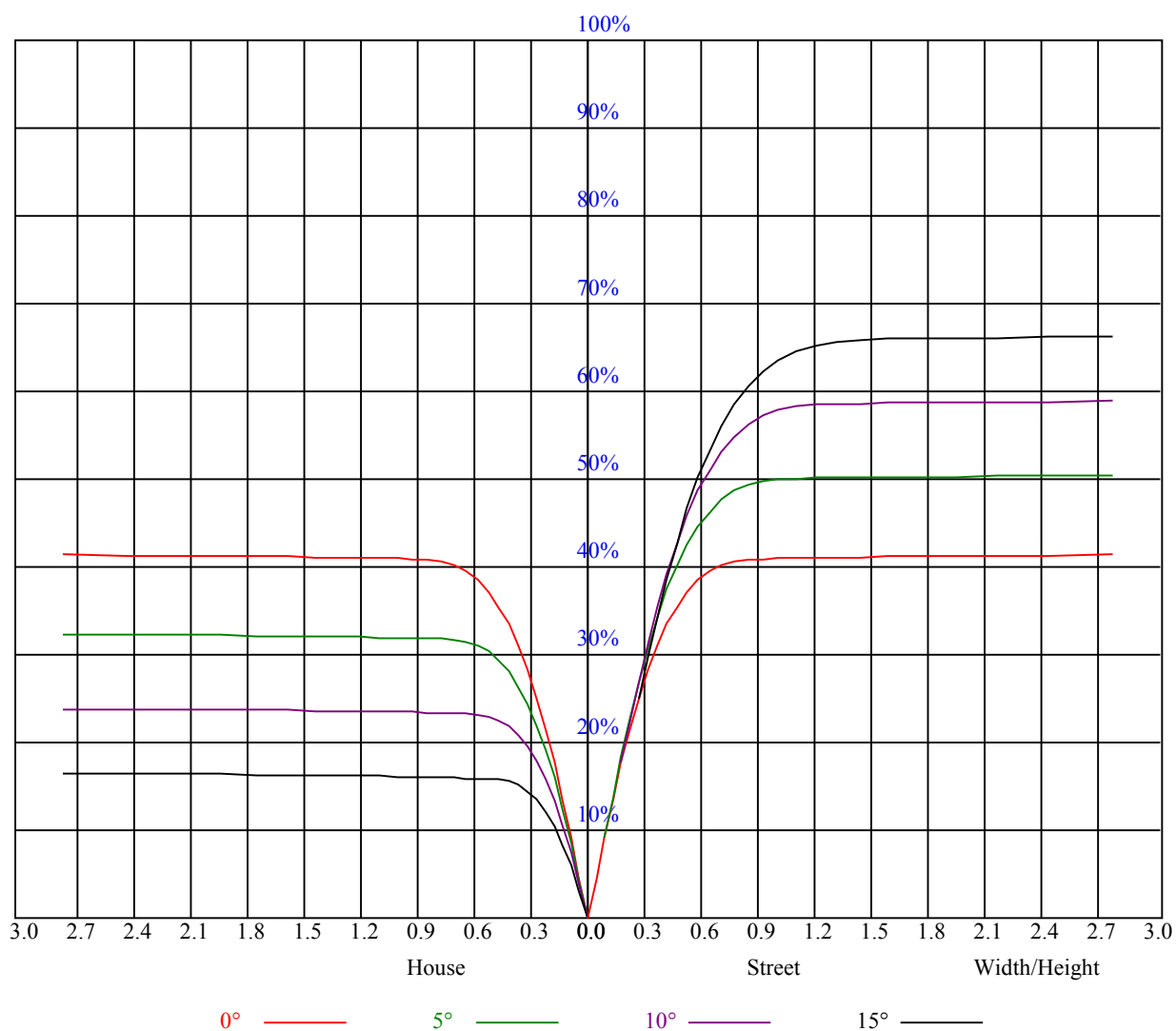
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

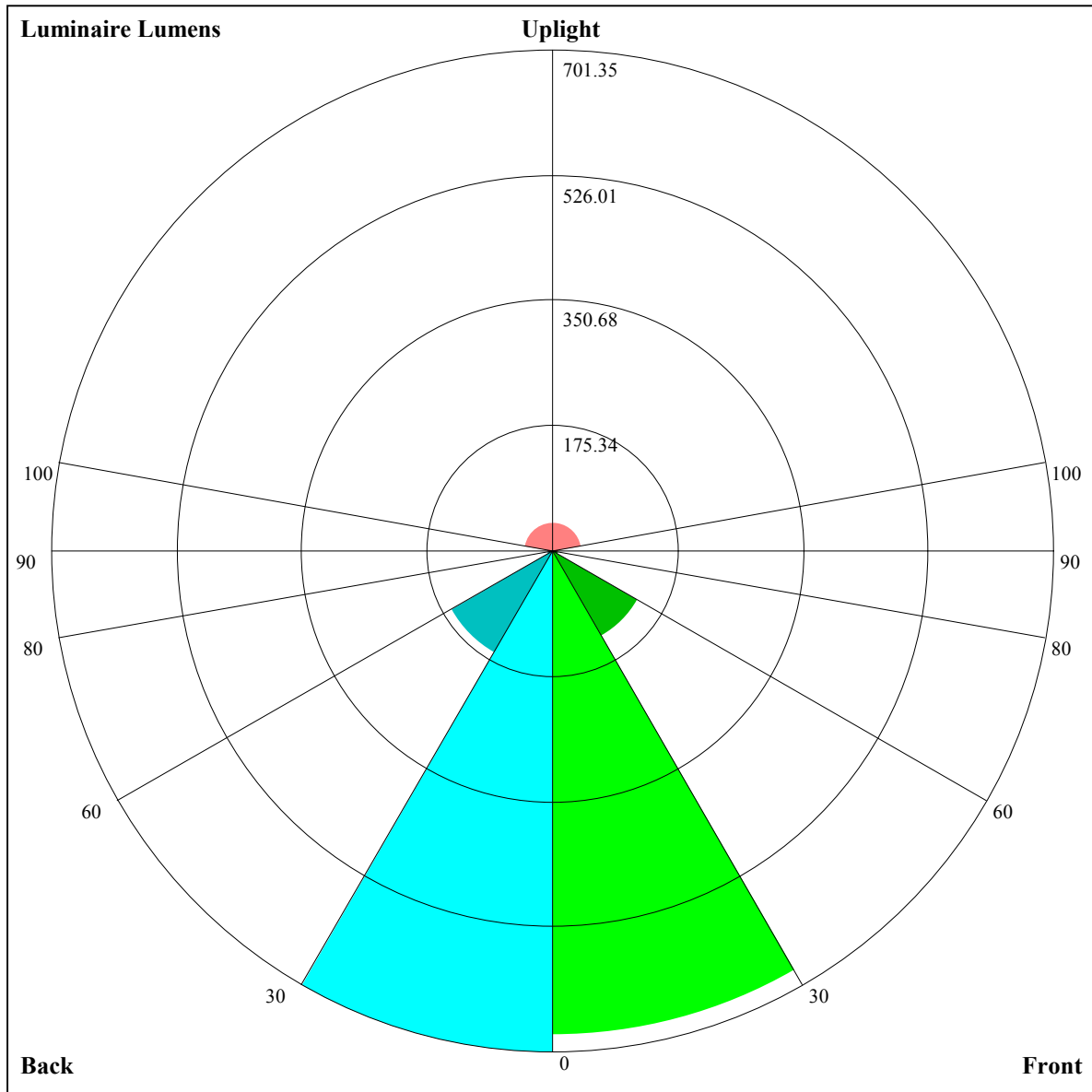
Luminance Limiting Curve





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	1.00	1.00	1.00	0.97	0.97	0.97	0.93	0.93	0.93	0.89	0.89	0.89	0.86	0.86	0.86	0.84
1	0.93	0.91	0.89	0.91	0.89	0.88	0.88	0.86	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.87	0.84	0.81	0.86	0.83	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.78	0.77	0.75	0.74
3	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.74	0.72	0.75	0.73	0.71	0.70
4	0.77	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.71	0.69	0.67	0.66
5	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.65	0.62	0.60	0.59
7	0.65	0.61	0.58	0.65	0.61	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56
8	0.62	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.59	0.56	0.54	0.53
9	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.51	0.57	0.54	0.51	0.57	0.53	0.51	0.50
10	0.56	0.52	0.49	0.56	0.52	0.49	0.55	0.52	0.49	0.55	0.51	0.49	0.54	0.51	0.49	0.48





Luminaire Lumens:

FL=676.91,FM=138.26,FH=8.62,FVH=4.3

BL=701.35,BM=165.79,BH=8.79,BVH=4.31

UL=8.46,UH=40.27

BUG Rating:B2-U2-G0

Nata 2-1550-A3

Intensity data(cd)										Appendix 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	2891.81	2726.44	2449.69	2042.44	1551.38	1140.75	811.69	353.25	36.73		
45.0	2883.38	2774.81	2486.25	2044.69	1594.13	1131.19	826.88	377.44	46.80		
90.0	2888.44	2778.19	2455.88	2020.50	1513.13	1080.28	795.99	357.98	35.78		
135.0	2880.00	2835.56	2562.75	2208.38	1740.94	1242.00	923.63	533.25	112.44		
180.0	2891.81	2803.50	2518.88	2184.19	1714.50	1113.13	903.60	513.51	113.51		
225.0	2883.38	2761.88	2509.88	2172.94	1713.94	1107.23	896.12	492.58	96.02		
270.0	2888.44	2760.19	2533.50	2209.50	1765.69	1285.31	911.25	536.63	113.06		
315.0	2880.00	2684.81	2422.13	2027.25	1537.88	1107.73	795.77	328.33	33.13		
360.0	2891.81	2726.44	2449.69	2042.44	1551.38	1140.75	811.69	353.25	36.73		
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0		
0.0	12.21	10.24	9.45	8.89	8.49	8.27	8.04	7.93	7.88		
45.0	13.28	10.58	9.79	9.11	8.66	8.38	8.16	7.99	7.88		
90.0	13.84	11.25	10.13	9.39	8.83	8.44	8.21	8.04	7.93		
135.0	19.63	12.21	10.74	9.90	9.17	8.66	8.21	8.04	7.88		
180.0	19.69	11.87	10.46	9.68	9.00	8.55	8.16	7.99	7.88		
225.0	16.54	11.25	10.01	9.28	8.78	8.44	8.16	7.99	7.88		
270.0	15.58	11.08	9.90	9.23	8.78	8.44	8.21	8.10	7.93		
315.0	11.87	10.29	9.45	8.94	8.55	8.21	8.04	7.88	7.88		
360.0	12.21	10.24	9.45	8.89	8.49	8.27	8.04	7.93	7.88		
C/γ(°)	90.0										
0.0	7.76										
45.0	7.76										
90.0	7.76										
135.0	7.76										
180.0	7.71										
225.0	7.76										
270.0	7.76										
315.0	7.76										
360.0	7.76										