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Nata

Client:

LumCAT: 3-1550-A3

Luminaire: 99.02.73.172+92.76.365.00

Report No:

Voltage(V): 34.9200

Test No: GC20190823010

Current(A): 0.3980

LampCAT: TRIDONIC SLE 13MM G7

Power (W): 13.9000

Lamp flux(lm): 1702.0

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): 1554.72, Efficiency(%): 91.35% , Luminous Efficacy(lm/W): 111.85

Central intensity(cd): 2662.734, Maximum intensity(cd): 2662.734

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=43.4

[C90/270]Total=43.4

Field angle(10%Imax): [C0/180]Total=73.8

[C90/270]Total=73.8

Maximum s/h(1/2): C0_180=0.69 C90_270=0.69

Maximum s/h(1/4): C0_180=0.72 C90_270=0.72

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.35%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.497%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2019/8/23
Humidity(%): 65.0%

Operator: NT07
Distance(m): 7.50

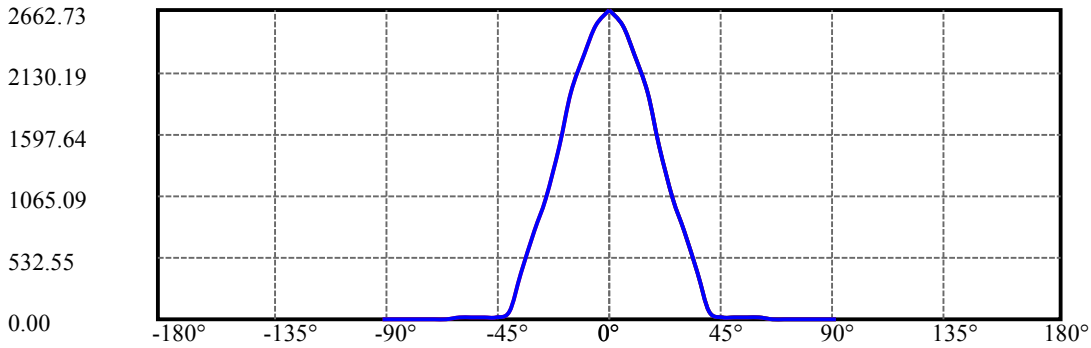
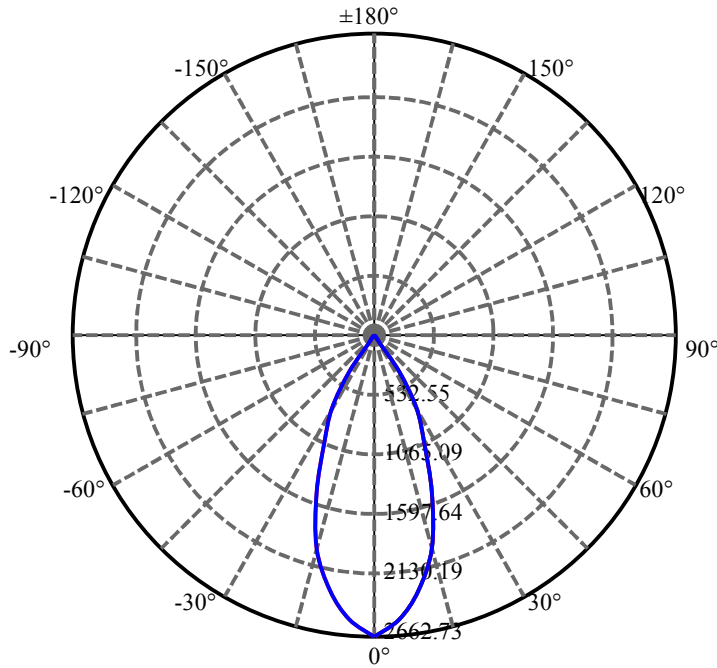
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2662.734	0.000	0	.000%	.000%
5.0	2526.609	62.037	62.037	3.645%	3.990%
10.0	2281.992	172.019	234.056	10.107%	15.055%
15.0	1950.609	251.075	485.131	14.752%	31.204%
20.0	1482.469	282.934	768.065	16.624%	49.402%
25.0	1043.044	264.880	1032.944	15.563%	66.439%
30.0	753.940	227.410	1260.354	13.361%	81.066%
35.0	395.670	169.288	1429.642	9.946%	91.955%
40.0	58.289	75.740	1505.382	4.450%	96.826%
45.0	13.409	13.275	1518.657	.780%	97.680%
50.0	9.752	4.680	1523.337	.275%	97.981%
55.0	8.873	4.050	1527.387	.238%	98.242%
60.0	8.276	3.964	1531.351	.233%	98.497%
65.0	7.875	3.926	1535.277	.231%	98.749%
70.0	7.580	3.913	1539.191	.230%	99.001%
75.0	7.348	3.902	1543.092	.229%	99.252%
80.0	7.200	3.893	1546.985	.229%	99.502%
85.0	7.080	3.880	1550.865	.228%	99.752%
90.0	7.003	3.856	1554.721	.227%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1260.35	74.05%	81.07%
0-40	1505.38	88.45%	96.83%
0-60	1531.35	89.97%	98.50%
0-90	1550.87	91.12%	99.75%
0-120	1550.87	91.12%	99.75%
0-180	1554.72	91.35%	100.00%
60-90	23.48	1.38%	1.51%
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%
0-29.64	1243.78	73.08%	80.00%

ZONAL LUMEN SUMMARY

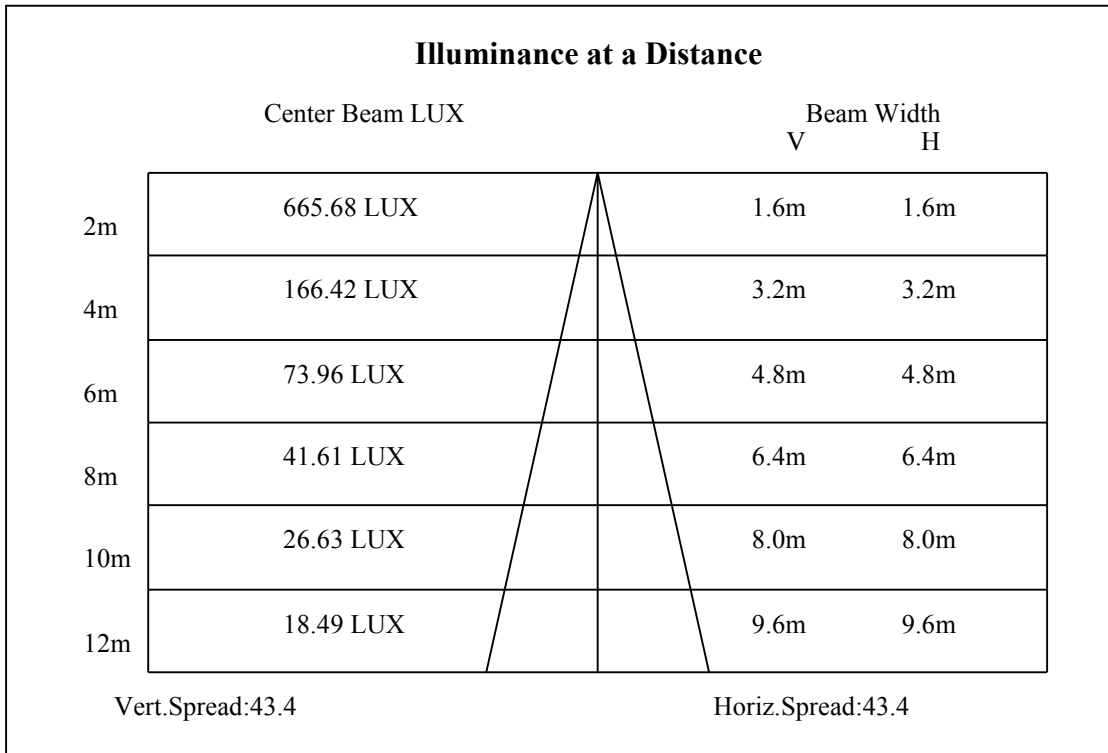
0-10	234.06
10-20	534.01
20-30	492.29
30-40	245.03
40-50	17.96
50-60	8.01
60-70	7.84
70-80	7.79
80-90	3.88
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

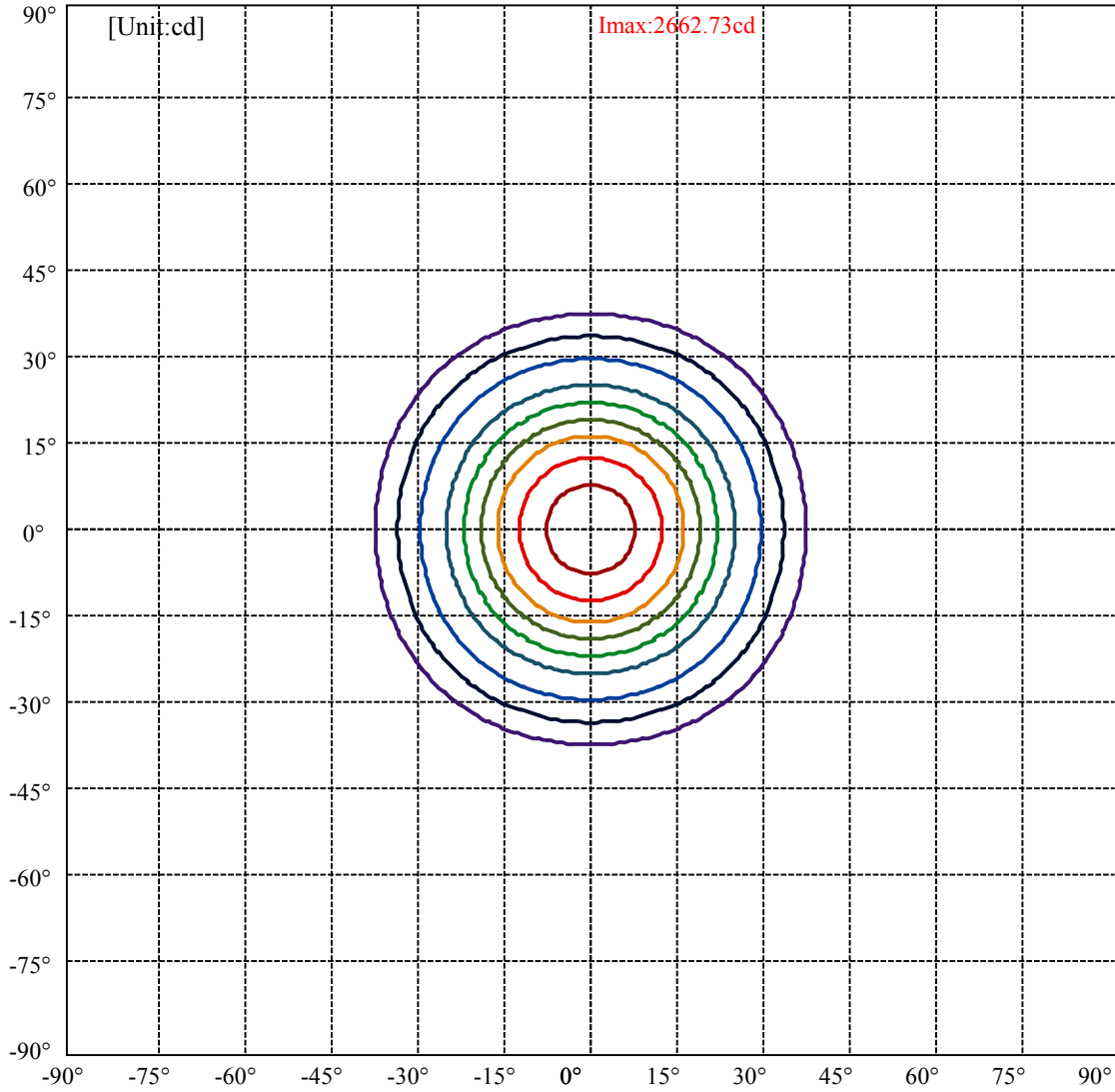


C0(Max): ———
C0/C180: ———
C90/C270: ———

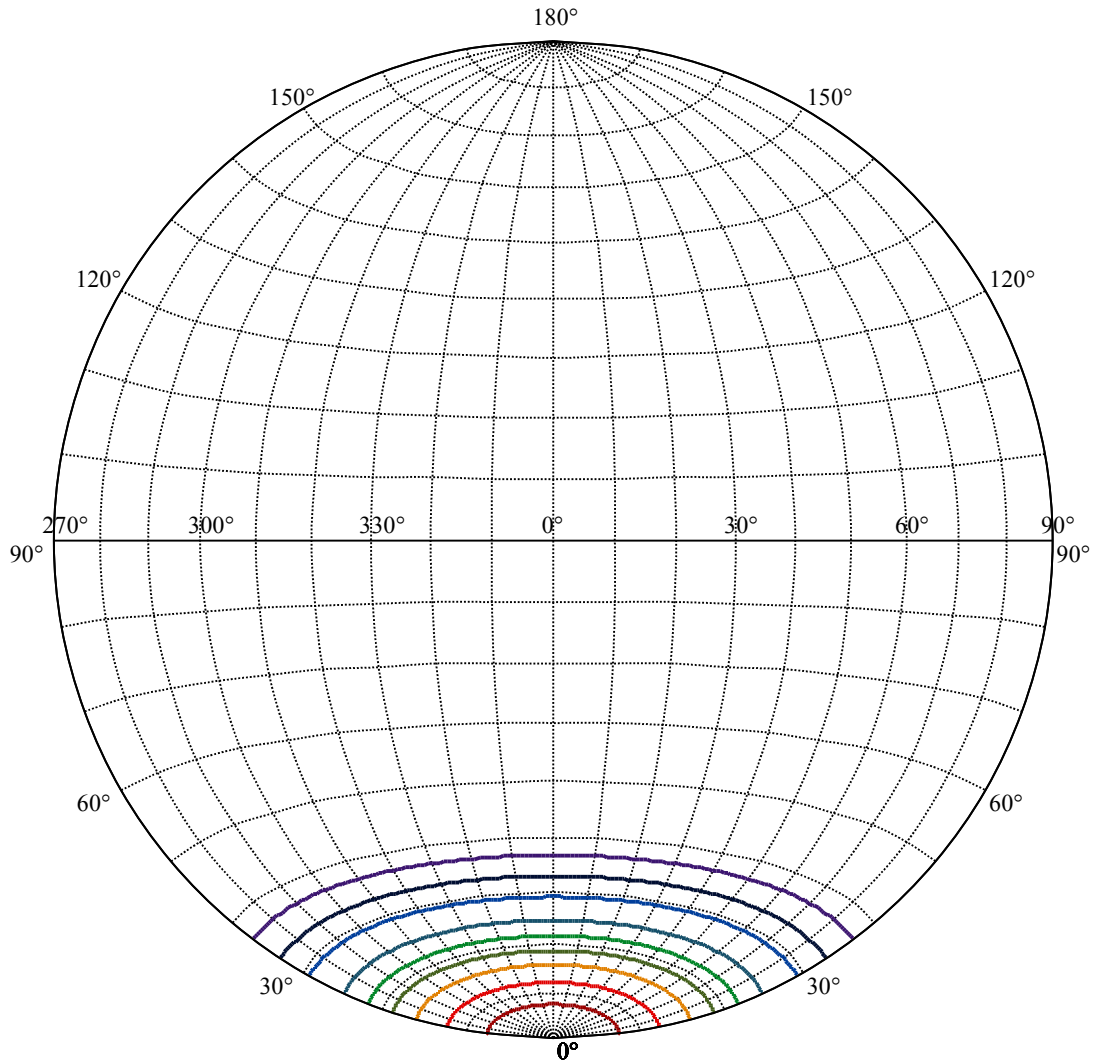
Field angle(10%Imax):C0/180Left:36.9 Right:36.9
:C90/270Left:36.9 Right:36.9

Beam Angle(50%Imax):C0/180Left:21.7 Right:21.7
:C90/270Left:21.7 Right:21.7





(10%Imax) 266.273	—
(20%Imax) 532.547	—
(30%Imax) 798.82	—
(40%Imax) 1065.09	—
(50%Imax) 1331.37	—
(60%Imax) 1597.64	—
(70%Imax) 1863.91	—
(80%Imax) 2130.19	—
(90%Imax) 2396.46	—



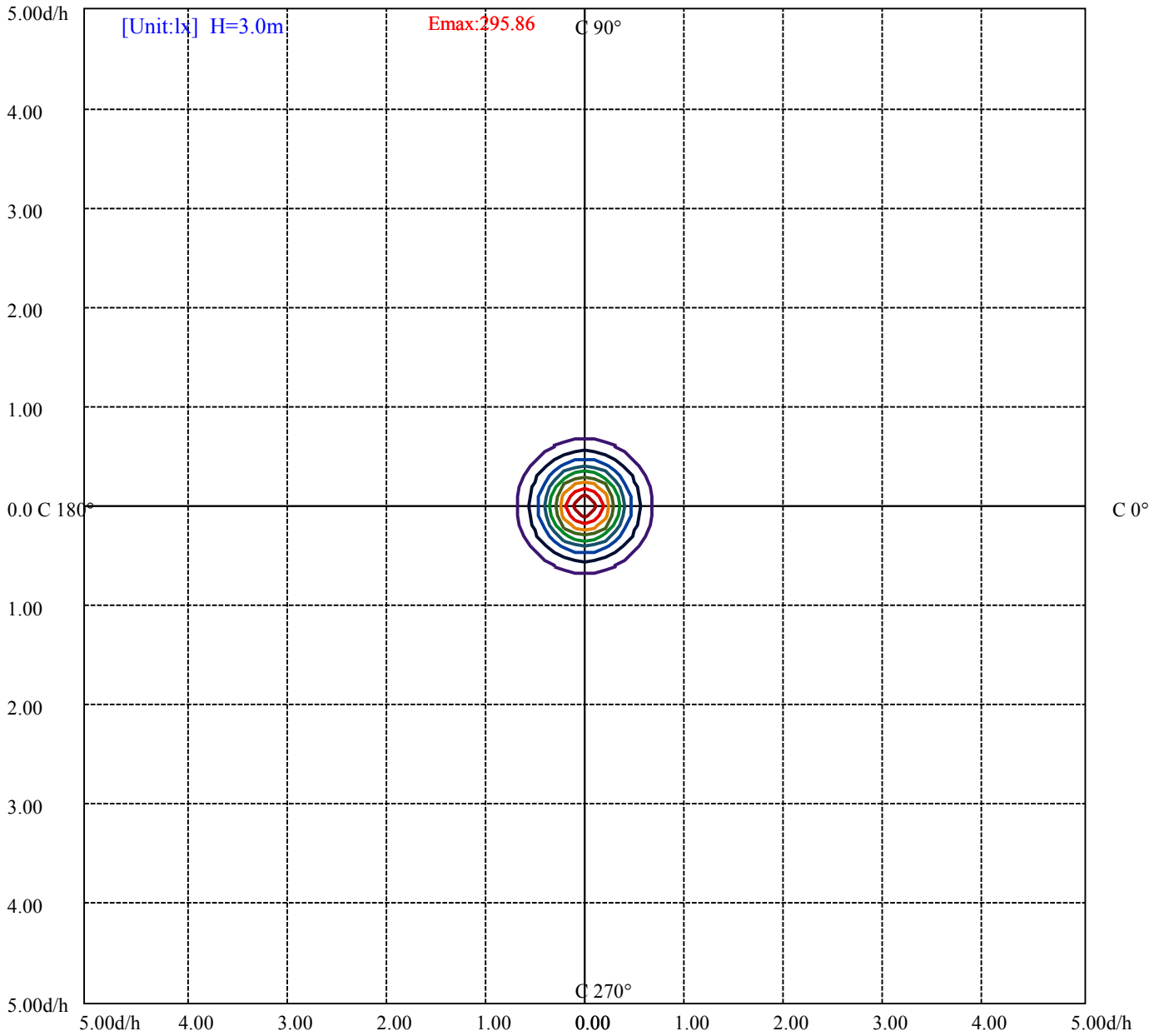
House

[Unit:cd]

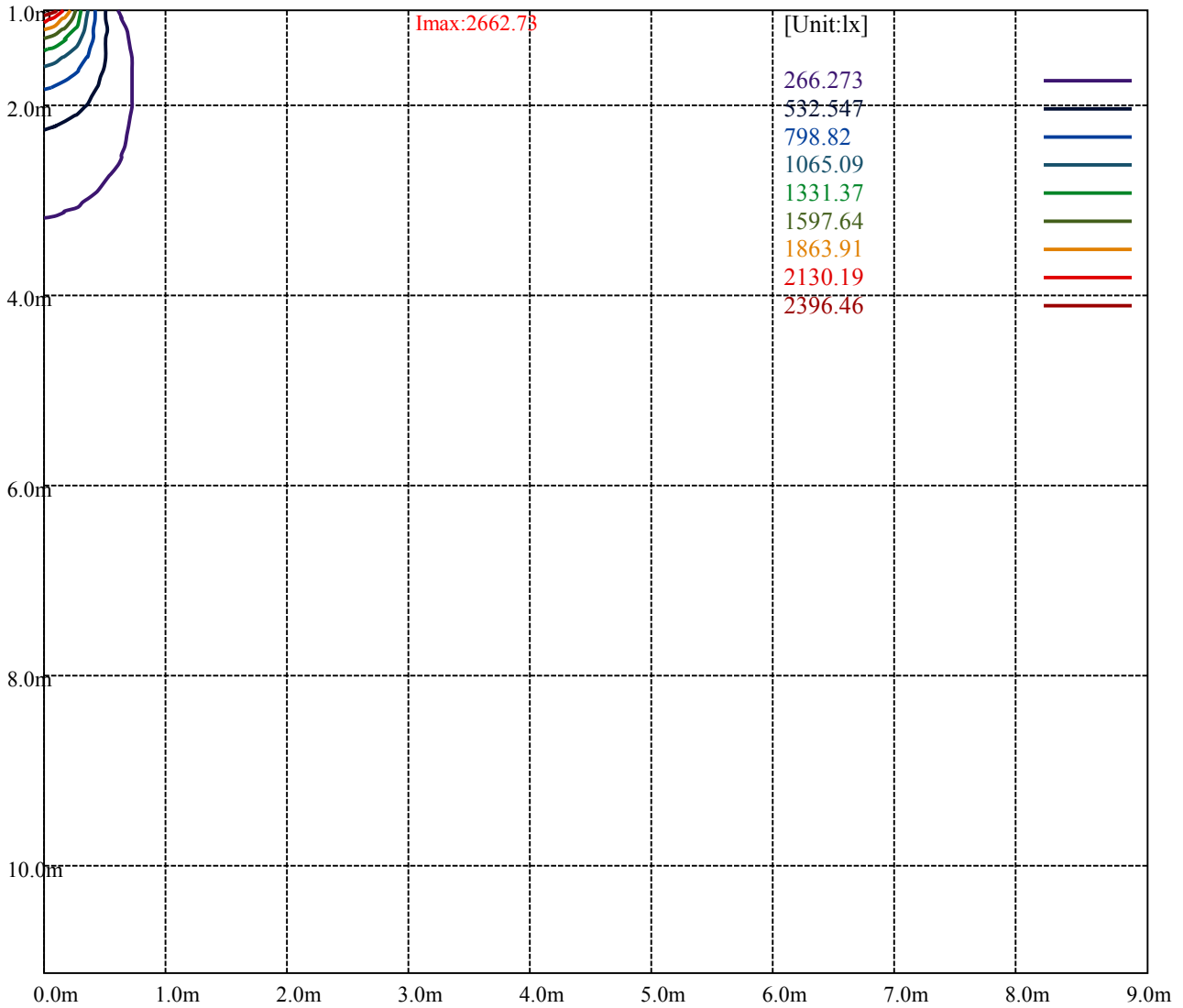
Road

Imax:2662.73

(10%Imax) 266.273	—
(20%Imax) 532.547	—
(30%Imax) 798.82	—
(40%Imax) 1065.09	—
(50%Imax) 1331.37	—
(60%Imax) 1597.64	—
(70%Imax) 1863.91	—
(80%Imax) 2130.19	—
(90%Imax) 2396.46	—



- (10%Emax) 29.58589
- (20%Emax) 59.17178
- (30%Emax) 88.75766
- (40%Emax) 118.3433
- (50%Emax) 147.93
- (60%Emax) 177.5156
- (70%Emax) 207.1011
- (80%Emax) 236.6867
- (90%Emax) 266.2733



Luminance Table

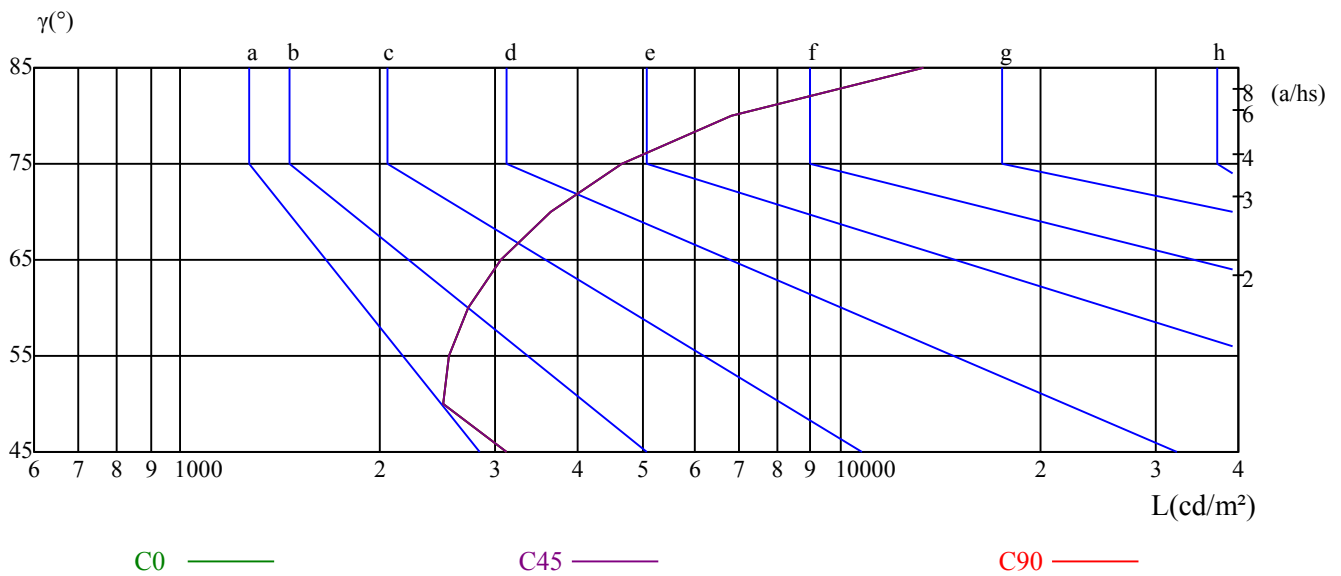
γ	45	50	55	60	65	70	75	80	85
C0	3117	2494	2543	2721	3063	3643	4666	6815	13353
C45	3117	2494	2543	2721	3063	3643	4666	6815	13353
C90	3117	2494	2543	2721	3063	3643	4666	6815	13353

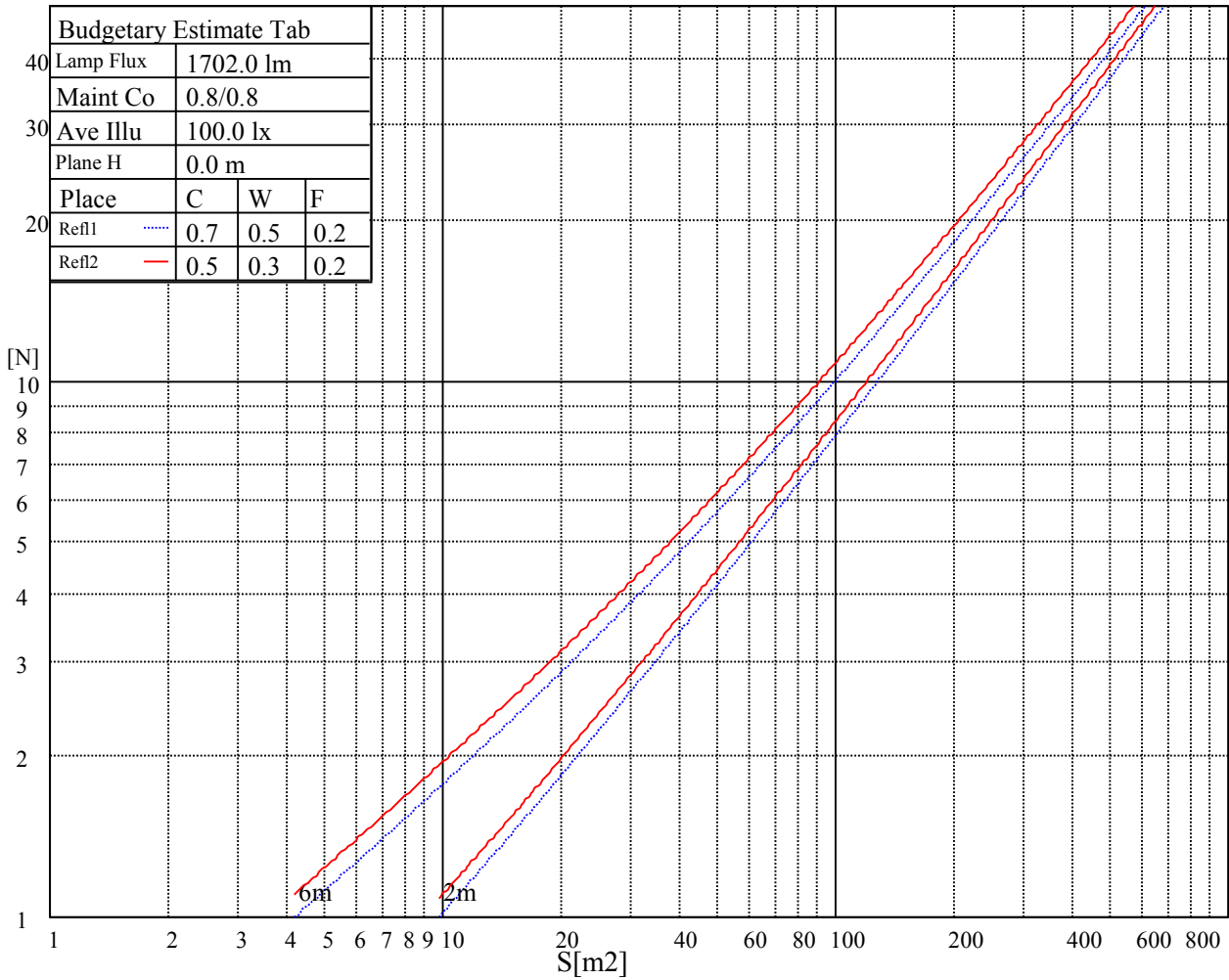
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3063	3063	3063	4666	4666	4666	13353	13353	13353

Glare Table

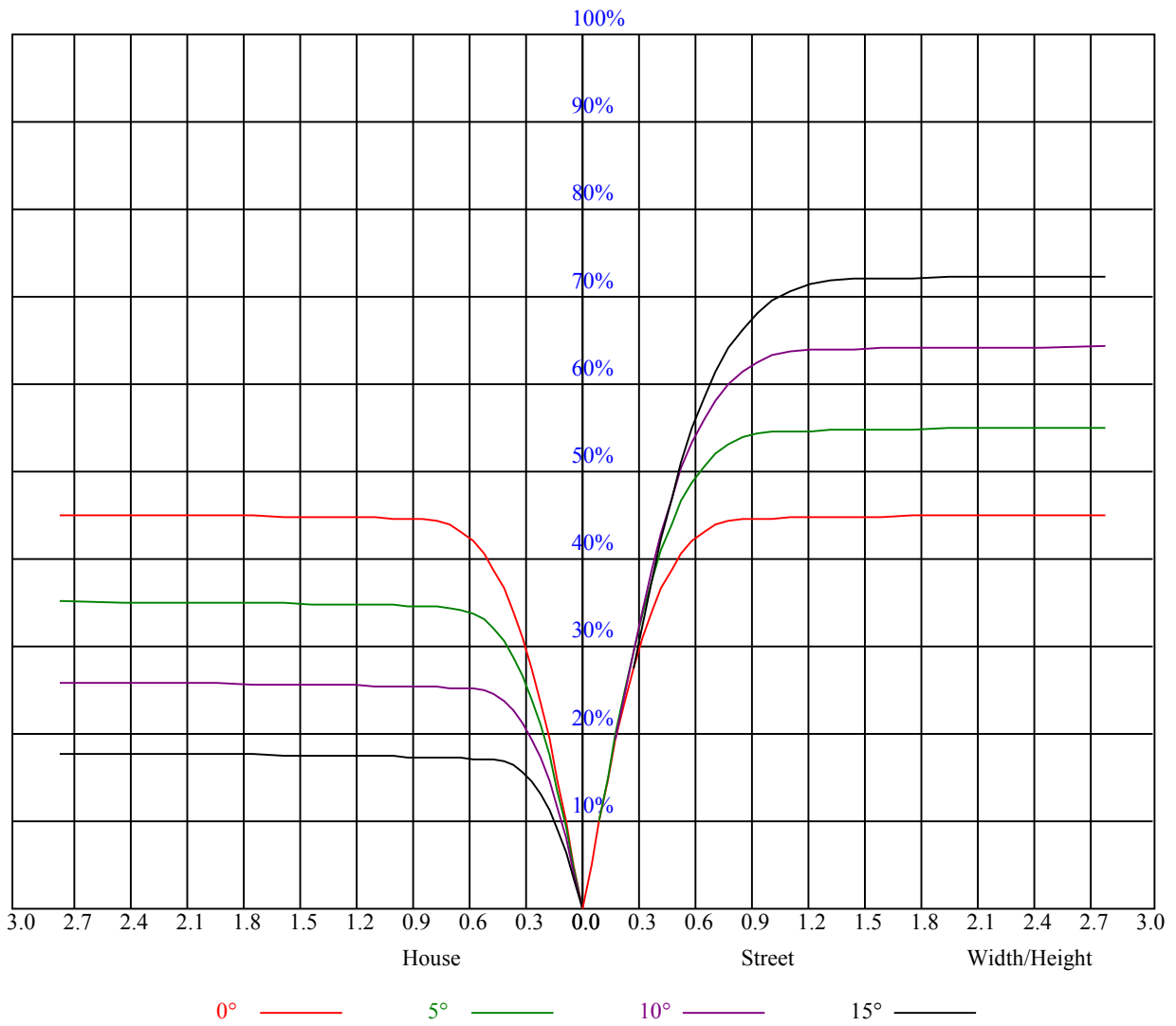
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

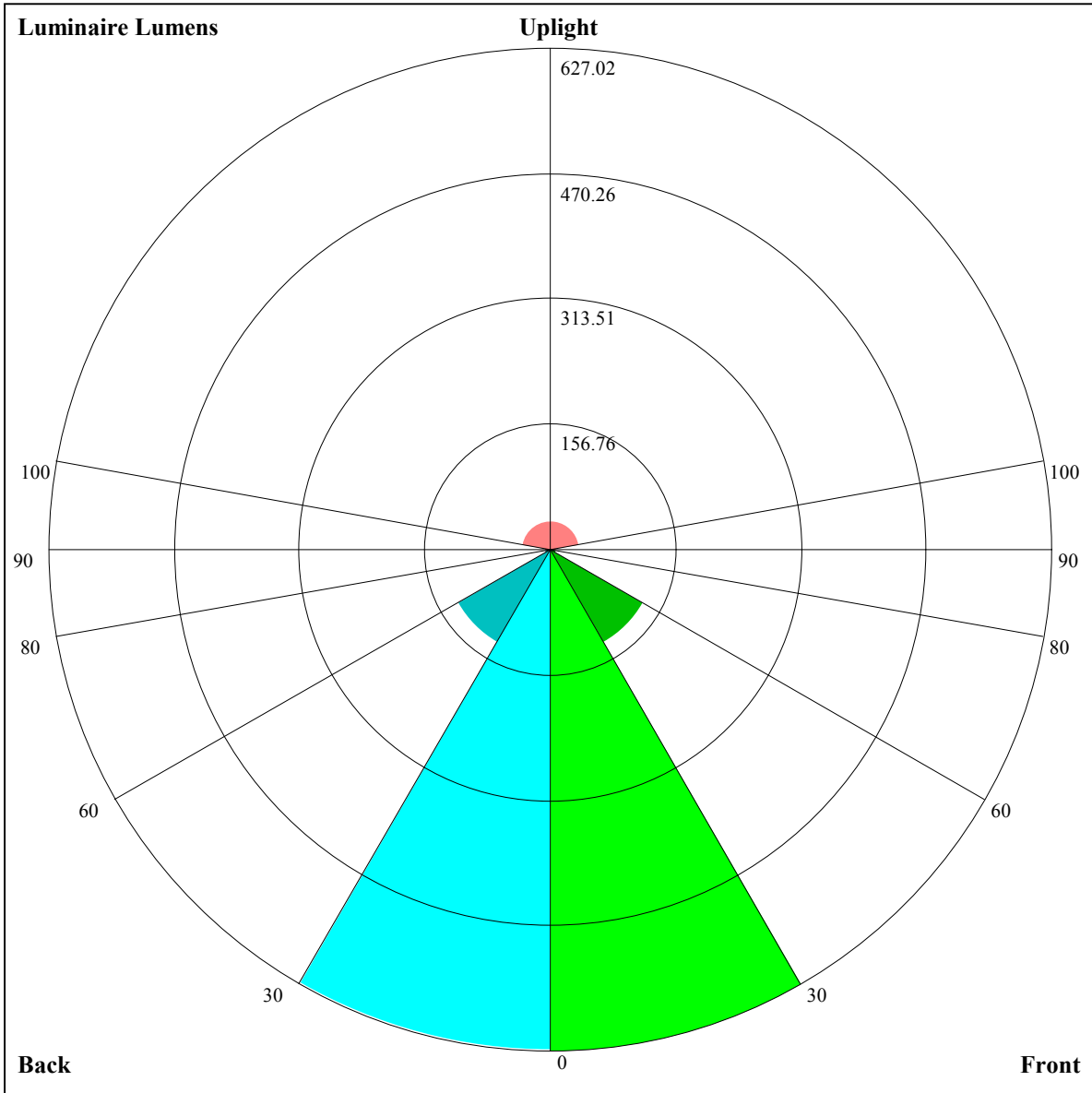
Luminance Limiting Curve





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	1.09	1.09	1.09	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.01	0.99	0.97	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86
2	0.95	0.92	0.89	0.93	0.90	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.85	0.84	0.82	0.81
3	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.79	0.77	0.76
4	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.76	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.71	0.79	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.59	0.67	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.58
9	0.65	0.60	0.57	0.64	0.60	0.56	0.64	0.59	0.56	0.63	0.59	0.56	0.62	0.58	0.56	0.55
10	0.62	0.57	0.54	0.61	0.57	0.54	0.61	0.56	0.54	0.60	0.56	0.53	0.59	0.56	0.53	0.52





Luminaire Lumens:

FL=627.02,FM=134.2,FH=7.78,FVH=3.87

BL=625.59,BM=133.8,BH=7.84,BVH=3.86

UL=7.64,UH=36.36

BUG Rating:B2-U2-G0

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	2671.31	2505.94	2291.63	1963.69	1505.81	1062.00	773.44	421.31	48.32
45.0	2658.38	2571.75	2338.88	2030.63	1590.75	1132.31	810.56	489.38	108.51
90.0	2663.44	2565.56	2323.13	1982.81	1531.69	1068.53	759.15	445.39	69.53
135.0	2657.81	2598.75	2376.56	2082.38	1617.75	1123.31	802.69	515.25	105.08
180.0	2671.31	2530.13	2280.38	1945.13	1447.31	1027.74	739.69	371.36	43.03
225.0	2658.38	2476.69	2214.56	1852.88	1354.50	936.00	705.54	296.10	29.87
270.0	2663.44	2509.31	2246.63	1911.94	1443.94	1027.13	740.25	353.81	35.78
315.0	2657.81	2454.75	2184.19	1835.44	1368.00	967.33	700.20	272.76	26.21
360.0	2671.31	2505.94	2291.63	1963.69	1505.81	1062.00	773.44	421.31	48.32
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	13.28	9.51	8.66	8.16	7.82	7.54	7.37	7.26	7.14
45.0	14.29	9.62	8.83	8.27	7.88	7.59	7.37	7.26	7.14
90.0	13.67	9.79	8.89	8.27	7.88	7.59	7.37	7.20	7.09
135.0	16.37	10.46	9.28	8.55	8.04	7.71	7.43	7.20	7.09
180.0	14.12	10.13	9.11	8.49	7.99	7.65	7.37	7.14	7.03
225.0	11.59	9.84	8.89	8.27	7.88	7.54	7.26	7.20	7.03
270.0	13.39	9.51	8.78	8.16	7.82	7.54	7.31	7.20	7.09
315.0	10.58	9.17	8.55	8.04	7.71	7.48	7.31	7.14	7.03
360.0	13.28	9.51	8.66	8.16	7.82	7.54	7.37	7.26	7.14
C/ γ (°)	90.0								
0.0	6.98								
45.0	7.03								
90.0	6.98								
135.0	7.03								
180.0	6.98								
225.0	7.03								
270.0	7.03								
315.0	6.98								
360.0	6.98								