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Nata

Client:

LumCAT: 2-2008-M

Luminaire: 92.70.131.00

Report No: GC2019091909

Test No: NATA07

LampCAT: TRIDONIC SLE G7 13MM

Lamp flux(lm): 1835.0

Number of Lamps: 1

Length(mm): 70

Phm Type: C

Voltage(V): 220.4000

Current(A): 0.0700

Power (W): 14.3900

PF: 0.9200

Ballast type: AC

Width(mm): 70

Height(mm): 0

Photometric Results

Lumens(lm): 1632.88, Efficiency(%): 88.99% , Luminous Efficacy(lm/W): 113.47

Central intensity(cd): 3378.325, Maximum intensity(cd): 3378.325

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=37.0

[C90/270]Total=37.0

Field angle(10%Imax): [C0/180]Total=73.4

[C90/270]Total=73.4

Maximum s/h(1/2): C0_180=0.61 C90_270=0.61

Maximum s/h(1/4): C0_180=0.61 C90_270=0.61

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 88.99%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.661%

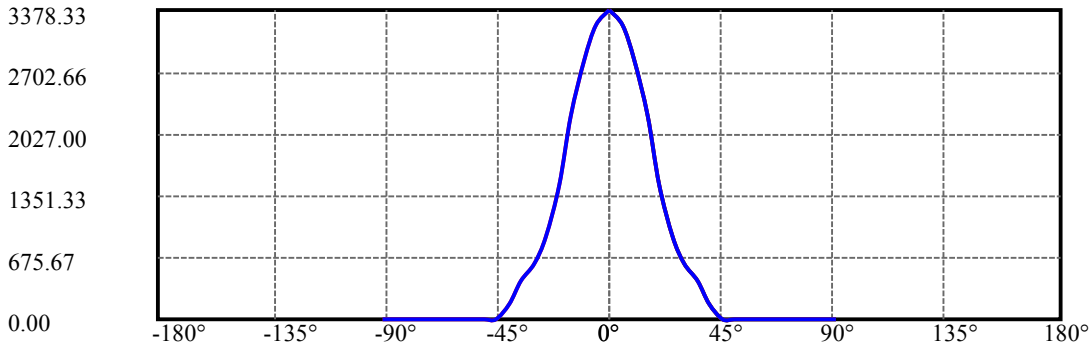
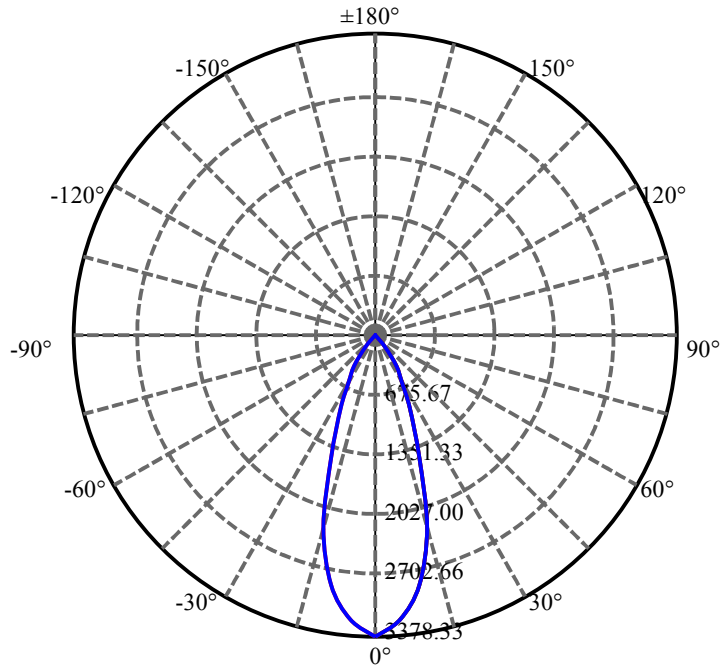
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3378.326	0.000	0	.000%	.000%
5.0	3201.355	78.658	78.658	4.287%	4.817%
10.0	2835.001	215.939	294.598	11.768%	18.042%
15.0	2229.437	300.419	595.017	16.372%	36.440%
20.0	1464.020	304.393	899.409	16.588%	55.081%
25.0	892.864	247.194	1146.603	13.471%	70.220%
30.0	612.205	190.468	1337.071	10.380%	81.884%
35.0	430.107	153.488	1490.558	8.364%	91.284%
40.0	162.052	98.797	1589.356	5.384%	97.335%
45.0	9.391	31.744	1621.1	1.730%	99.279%
50.0	4.814	2.870	1623.97	.156%	99.455%
55.0	3.677	1.846	1625.816	.101%	99.568%
60.0	2.894	1.519	1627.336	.083%	99.661%
65.0	2.314	1.266	1628.602	.069%	99.738%
70.0	1.908	1.069	1629.671	.058%	99.804%
75.0	1.630	0.925	1630.596	.050%	99.860%
80.0	1.427	0.818	1631.414	.045%	99.910%
85.0	1.311	0.744	1632.158	.041%	99.956%
90.0	1.311	0.718	1632.876	.039%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1337.07	72.86%	81.88%
0-40	1589.36	86.61%	97.33%
0-60	1627.34	88.68%	99.66%
0-90	1632.16	88.95%	99.96%
0-120	1632.16	88.95%	99.96%
0-180	1632.88	88.99%	100.00%
60-90	6.34	0.35%	0.39%
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%
0-29.19	1306.30	71.19%	80.00%

ZONAL LUMEN SUMMARY

0-10	294.60
10-20	604.81
20-30	437.66
30-40	252.28
40-50	34.61
50-60	3.37
60-70	2.34
70-80	1.74
80-90	0.74
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: —————

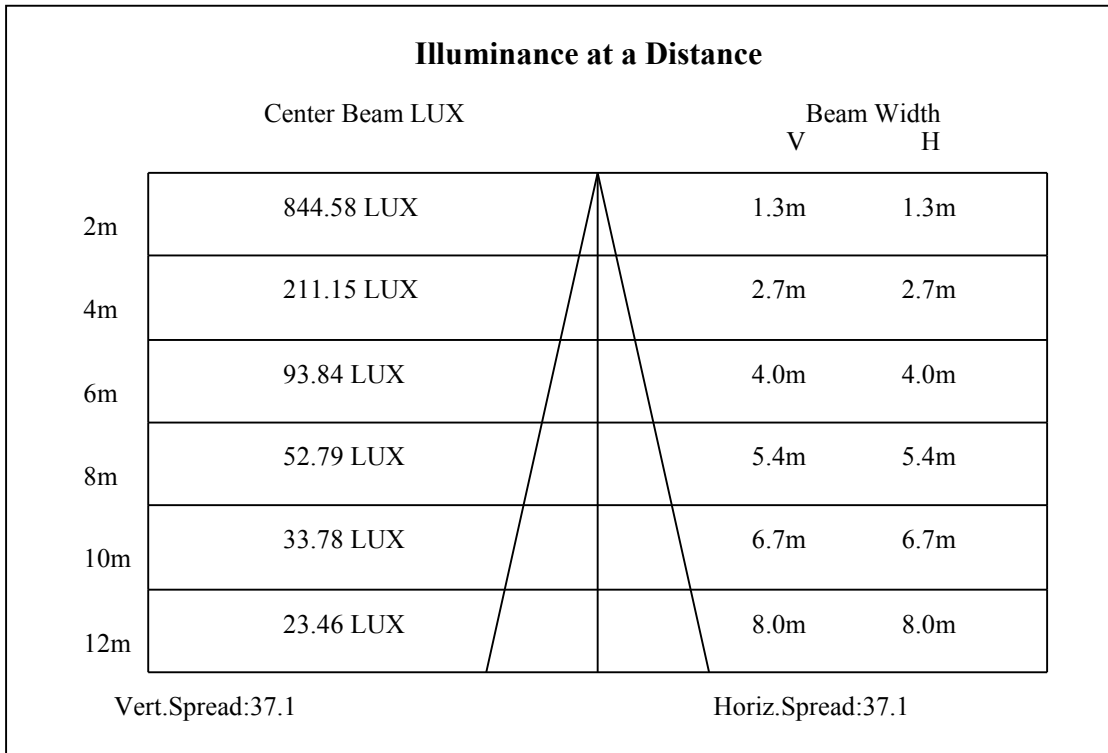
C90/C270: —————

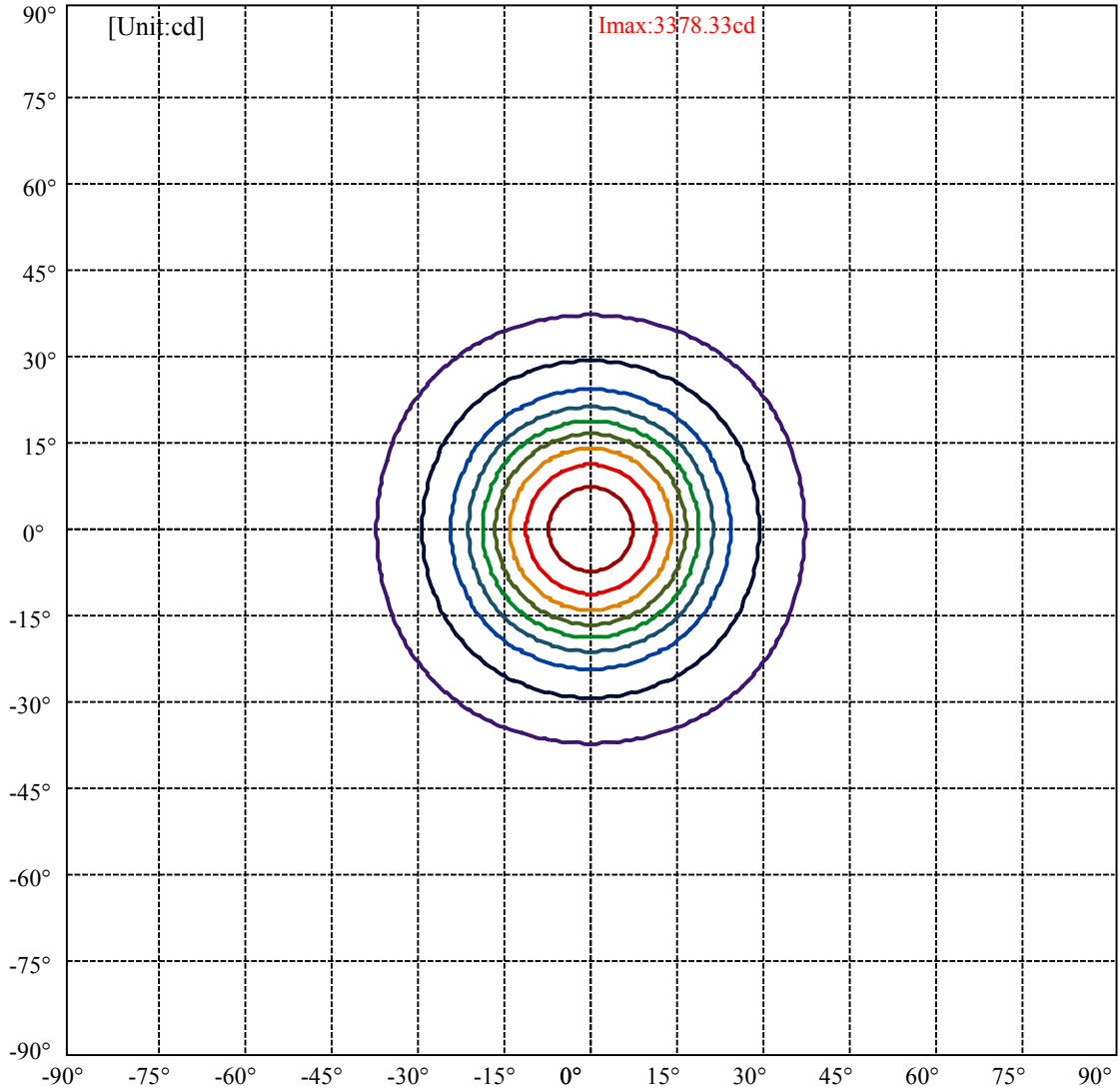
Field angle(10%Imax):C0/180Left:36.7 Right:36.7

:C90/270Left:36.7 Right:36.7

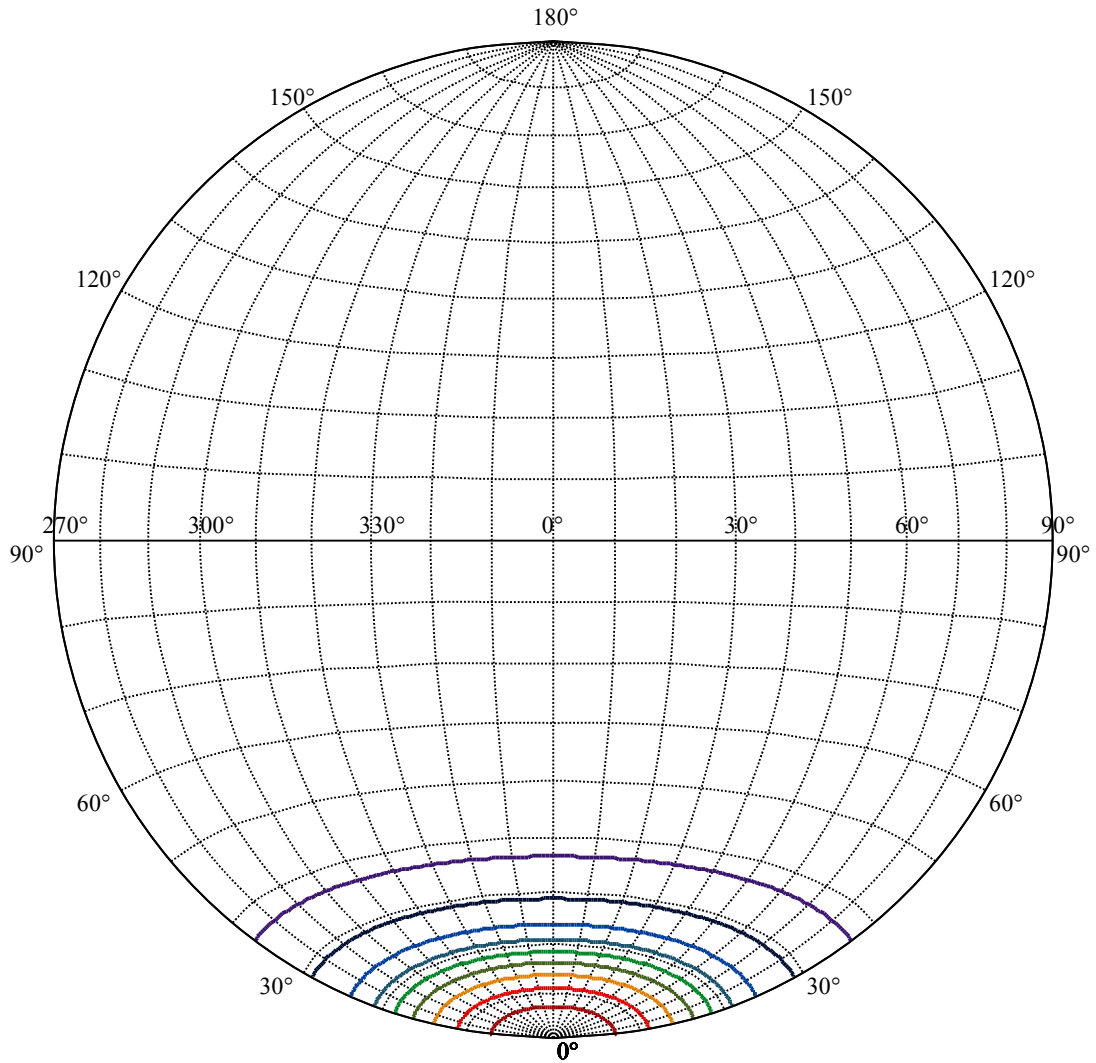
Beam Angle(50%Imax):C0/180Left:18.5 Right:18.5

:C90/270Left:18.5 Right:18.5





(10%Imax) 337.833	—
(20%Imax) 675.665	—
(30%Imax) 1013.5	—
(40%Imax) 1351.33	—
(50%Imax) 1689.16	—
(60%Imax) 2027	—
(70%Imax) 2364.83	—
(80%Imax) 2702.66	—
(90%Imax) 3040.49	—



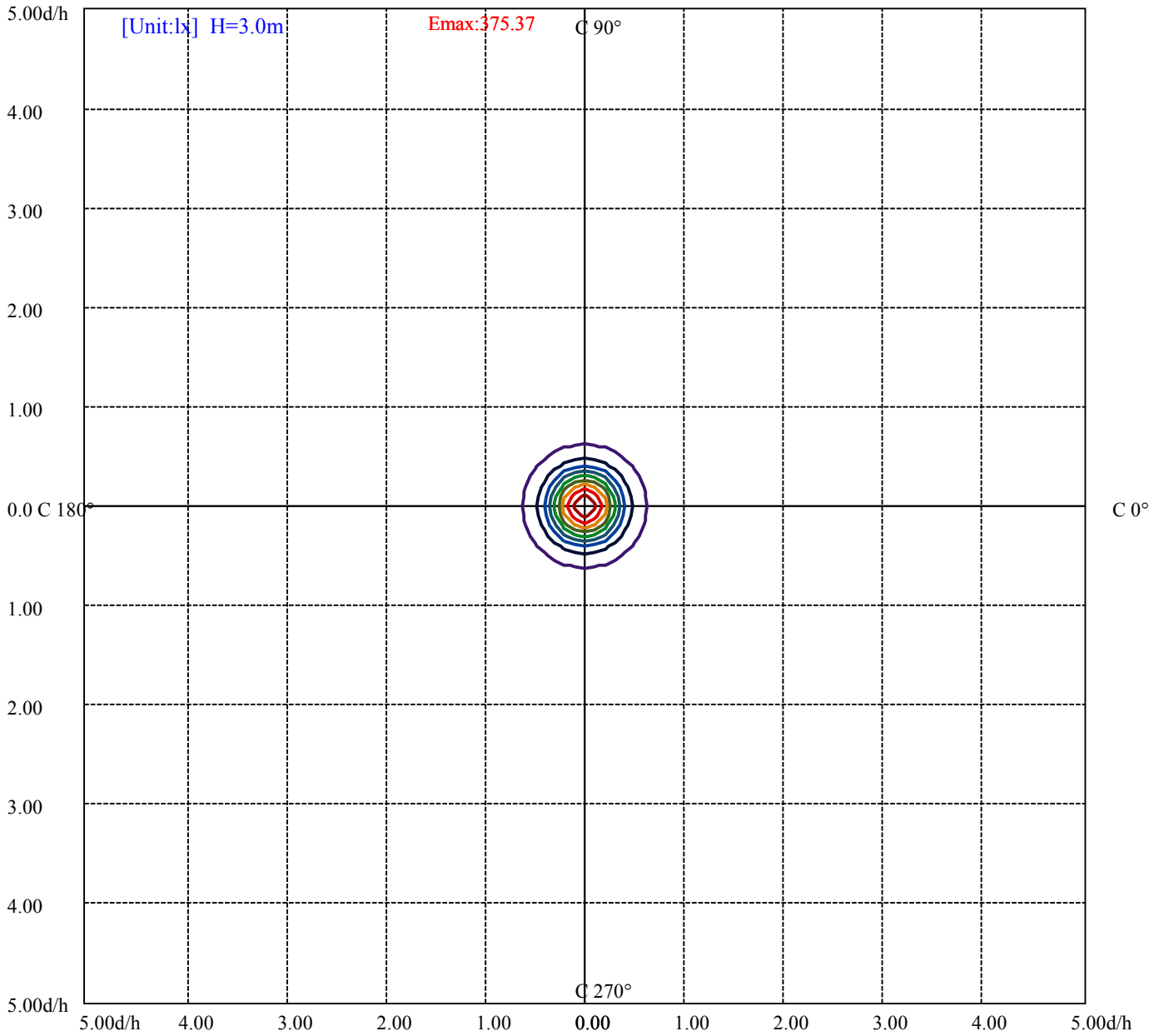
House

[Unit:cd]

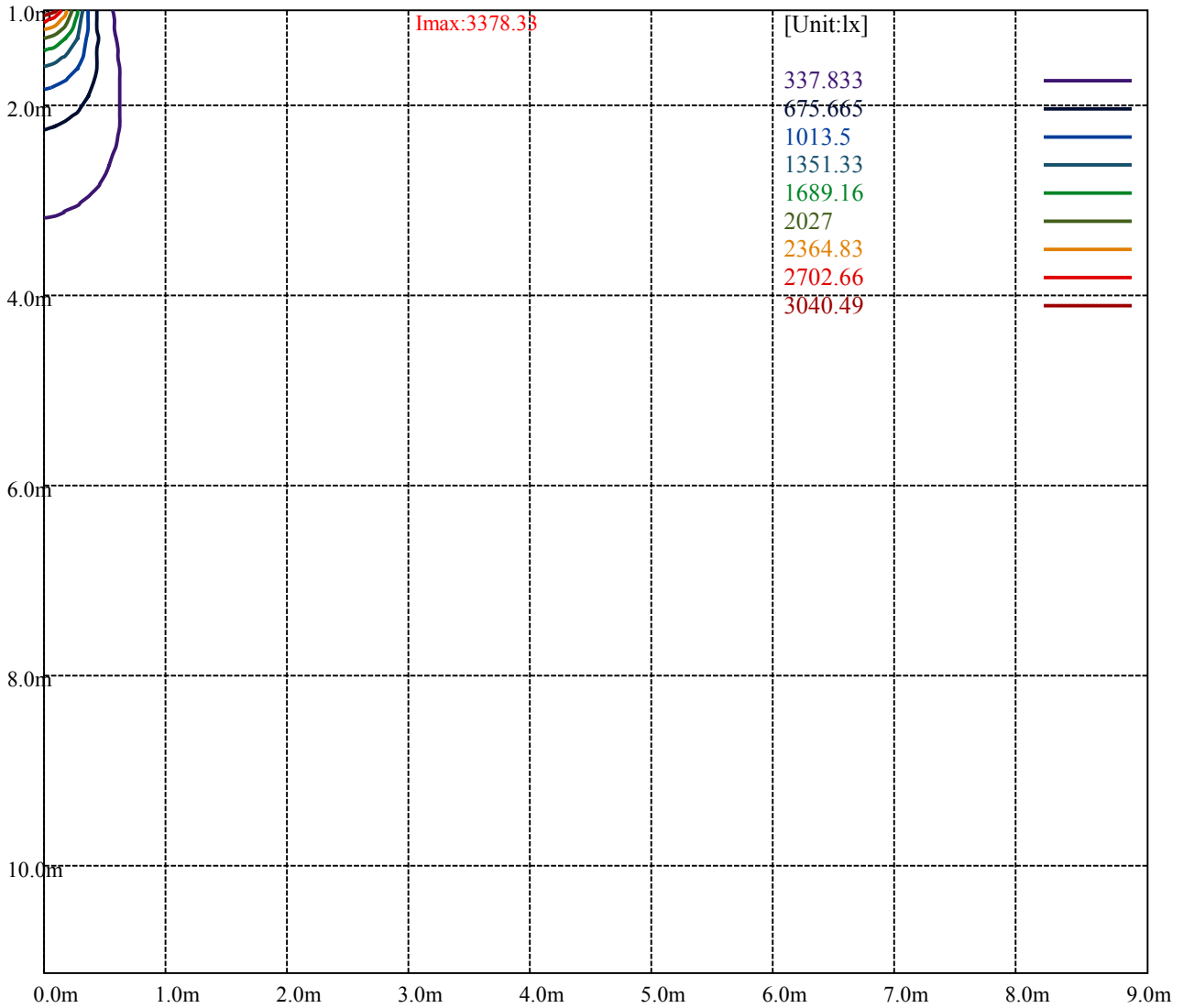
Road

Imax:3378.33

(10%Imax)	337.833	—
(20%Imax)	675.665	—
(30%Imax)	1013.5	—
(40%Imax)	1351.33	—
(50%Imax)	1689.16	—
(60%Imax)	2027	—
(70%Imax)	2364.83	—
(80%Imax)	2702.66	—
(90%Imax)	3040.49	—



(10%Emax) 37.53689	—
(20%Emax) 75.07378	—
(30%Emax) 112.6111	—
(40%Emax) 150.1478	—
(50%Emax) 187.6844	—
(60%Emax) 225.2211	—
(70%Emax) 262.7578	—
(80%Emax) 300.2955	—
(90%Emax) 337.8322	—



Luminance Table

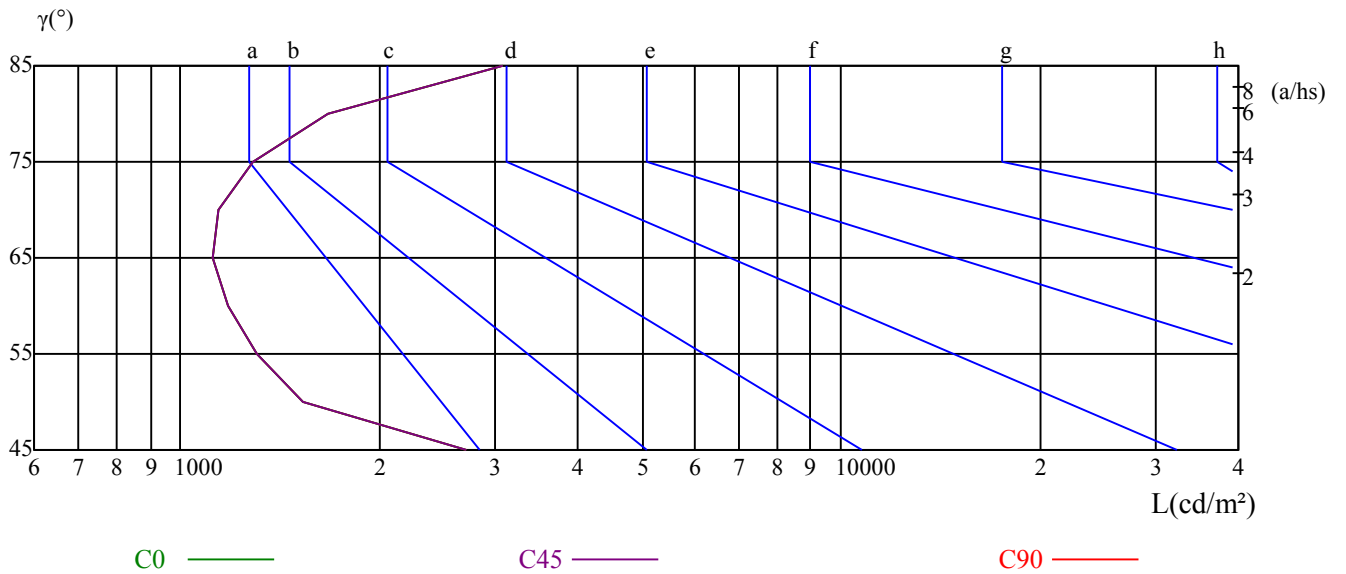
γ	45	50	55	60	65	70	75	80	85
C0	2710	1529	1308	1181	1118	1139	1285	1677	3070
C45	2710	1529	1308	1181	1118	1139	1285	1677	3070
C90	2710	1529	1308	1181	1118	1139	1285	1677	3070

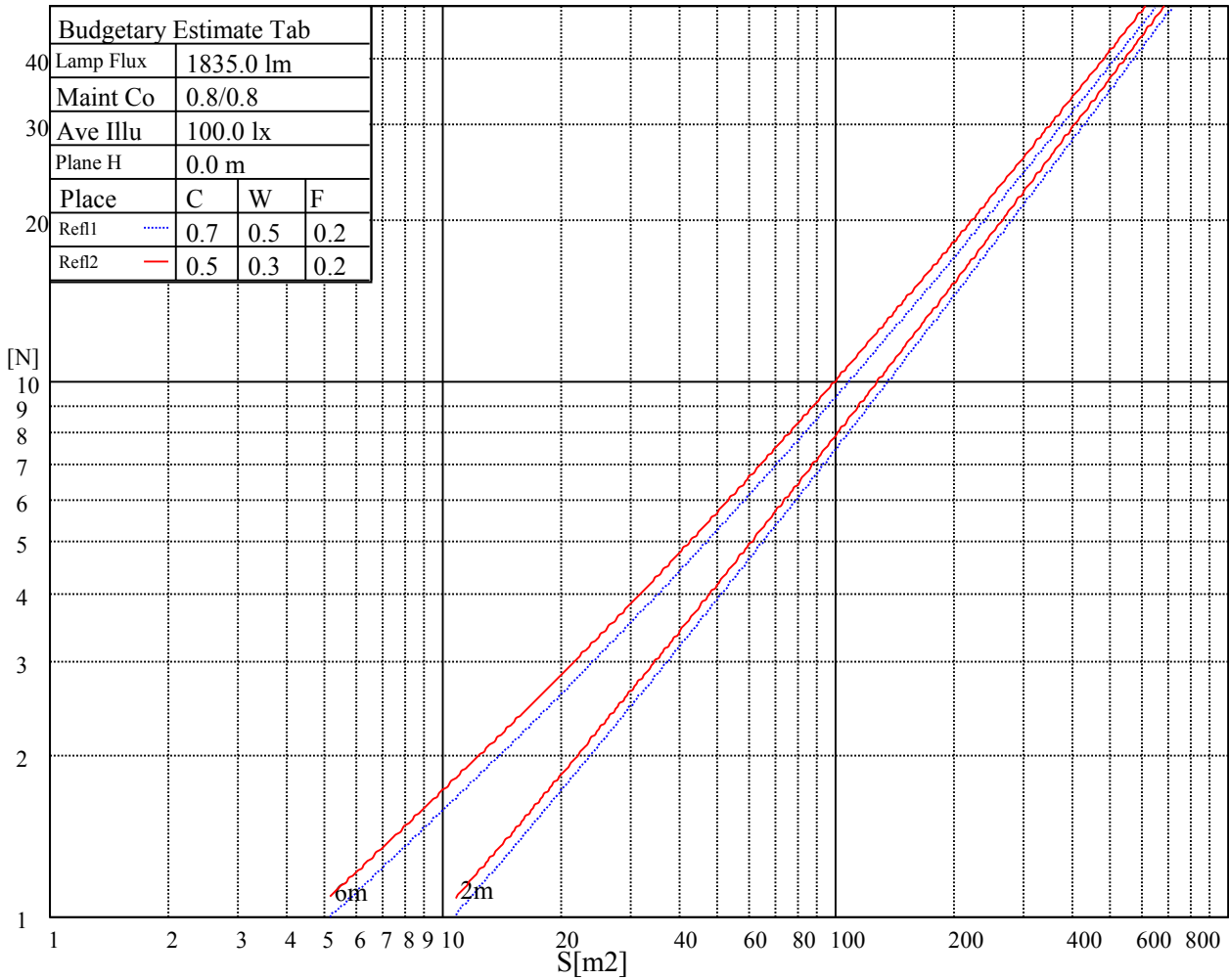
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1118	1118	1118	1285	1285	1285	3070	3070	3070

Glare Table

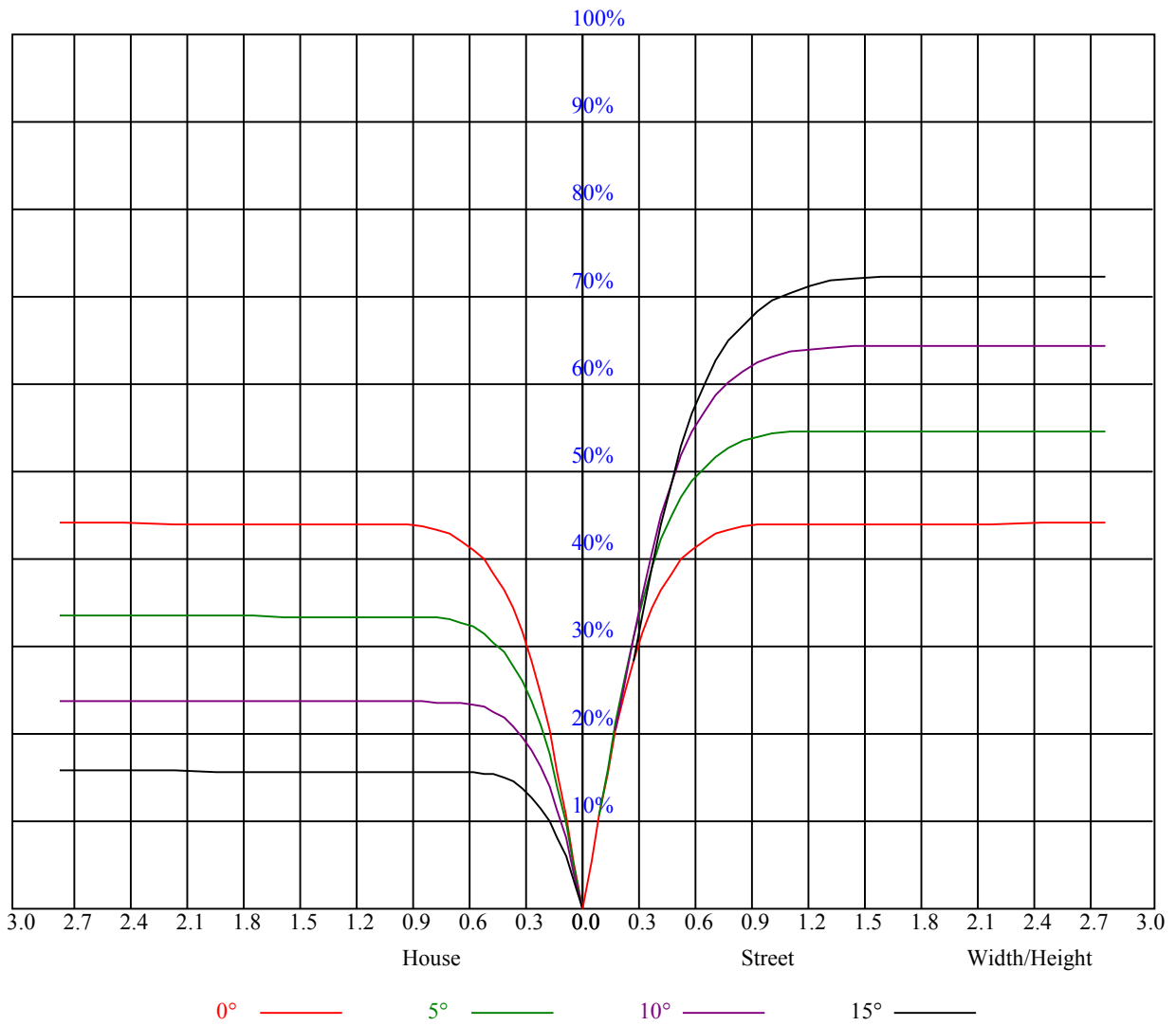
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

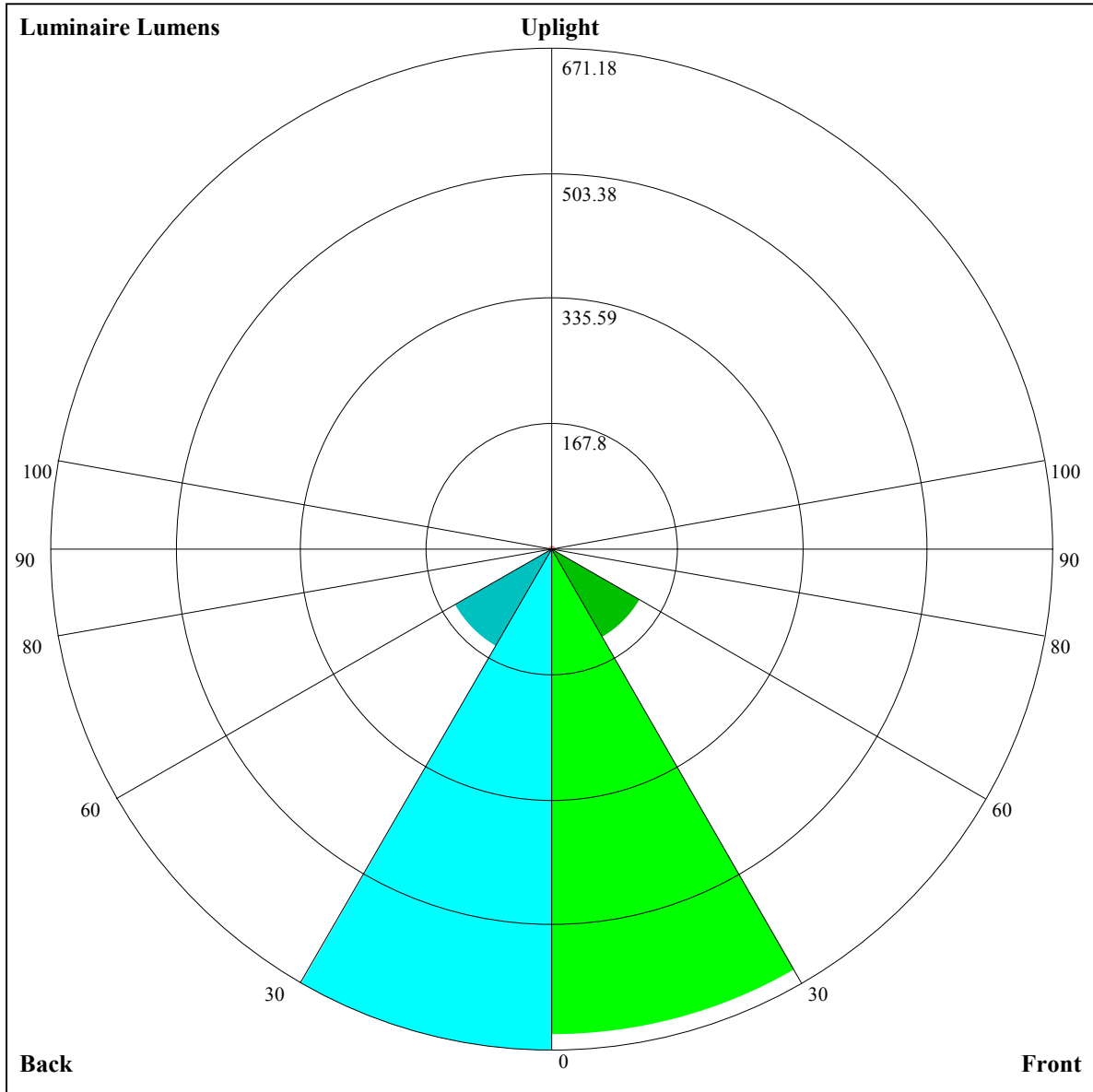
Luminance Limiting Curve





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	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.89
1	0.99	0.97	0.96	0.97	0.96	0.94	0.94	0.92	0.91	0.91	0.89	0.88	0.88	0.87	0.86	0.84
2	0.93	0.90	0.87	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.84	0.82	0.81	0.80
3	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.82	0.80	0.78	0.81	0.78	0.77	0.75
4	0.83	0.79	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.70	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.74	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	0.71	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
8	0.68	0.63	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58
9	0.65	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56
10	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.61	0.57	0.54	0.60	0.57	0.54	0.53





Luminaire Lumens:

FL=651.51,FM=136.68,FH=2,FVH=0.73

BL=671.18,BM=149.72,BH=2.07,BVH=0.73

UL=1.43,UH=6.81

BUG Rating:B2-U1-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	3376.82	3140.16	2778.68	1993.53	1329.50	796.33	585.56	370.44	63.71
45.0	3380.07	3253.38	2902.11	2408.84	1516.97	927.19	616.28	468.72	232.53
90.0	3370.79	3090.05	2662.67	1978.68	864.12	709.55	558.28	328.12	16.75
135.0	3385.63	3285.40	2887.26	2377.75	1642.26	947.14	623.71	472.90	263.62
180.0	3376.82	3272.87	2933.67	2402.35	1726.71	970.80	648.30	484.96	278.00
225.0	3380.07	3137.38	2750.37	2072.42	1356.42	805.28	597.03	382.60	92.34
270.0	3370.79	3302.11	3003.27	2458.50	1835.76	1162.91	676.14	540.65	246.45
315.0	3385.63	3129.49	2761.97	2143.42	1440.41	823.71	592.34	392.48	103.02
360.0	3376.82	3140.16	2778.68	1993.53	1329.50	796.33	585.56	370.44	63.71
C/ γ (°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	7.24	4.55	3.57	2.88	2.18	1.90	1.62	1.44	1.35
45.0	9.00	4.59	3.43	2.74	2.32	1.81	1.58	1.39	1.35
90.0	6.50	3.99	3.06	2.41	2.00	1.76	1.48	1.35	1.30
135.0	9.79	4.92	3.90	2.97	2.37	1.95	1.67	1.48	1.30
180.0	11.09	5.57	4.13	3.20	2.55	2.04	1.72	1.53	1.30
225.0	8.82	4.64	3.53	2.83	2.27	1.90	1.62	1.39	1.30
270.0	13.87	5.38	4.04	3.25	2.51	2.09	1.76	1.48	1.35
315.0	8.82	4.87	3.76	2.88	2.32	1.81	1.58	1.35	1.25
360.0	7.24	4.55	3.57	2.88	2.18	1.90	1.62	1.44	1.35
C/ γ (°)	90.0								
0.0	1.44								
45.0	1.30								
90.0	1.25								
135.0	1.35								
180.0	1.30								
225.0	1.30								
270.0	1.25								
315.0	1.30								
360.0	1.44								