
SAVEENERGYLIFE

Client:

LumCAT: SE-350.187 120V

Luminaire:

Report No:

Voltage(V): 120.0000

Test No:

Current(A): 0.0590

LampCAT: 2835

Power (W): 5.6310

Lamp flux(lm): 500.0

PF: 0.7830

Number of Lamps: 1

Ballast type:

Length(mm): 55

Width(mm): 55

Phm Type: C

Height(mm): 2

Photometric Results

Lumens(lm): 573.38

Efficiency(%): 100.00%

Lumens(lm)/Power(W): 101.83

Central intensity(cd): 1200.940

Maximum intensity(cd): 1230.973

Angle of maximum intensity: C=30.0 γ =0.0

Beam Angle(50% I_{max}): [C0/180]Total=28.6

[C90/270]Total=28.3

Field angle(10% I_{max}): [C0/180]Total=71.5

[C90/270]Total=71.9

Maximum s/h(1/2): C0_180=0.45 C90_270=0.46

Maximum s/h(1/4): C0_180=0.53 C90_270=0.53

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 114.67%

Up flux rate of LUM(%): 0.00%

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.535%

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Zonal flux distribution table

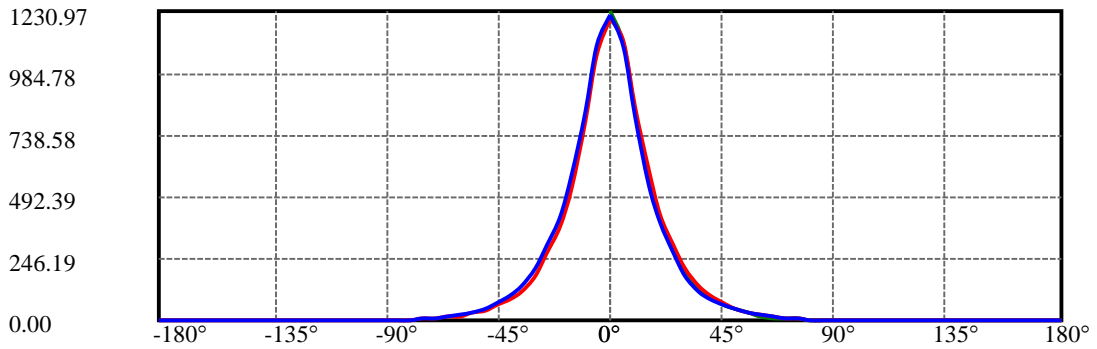
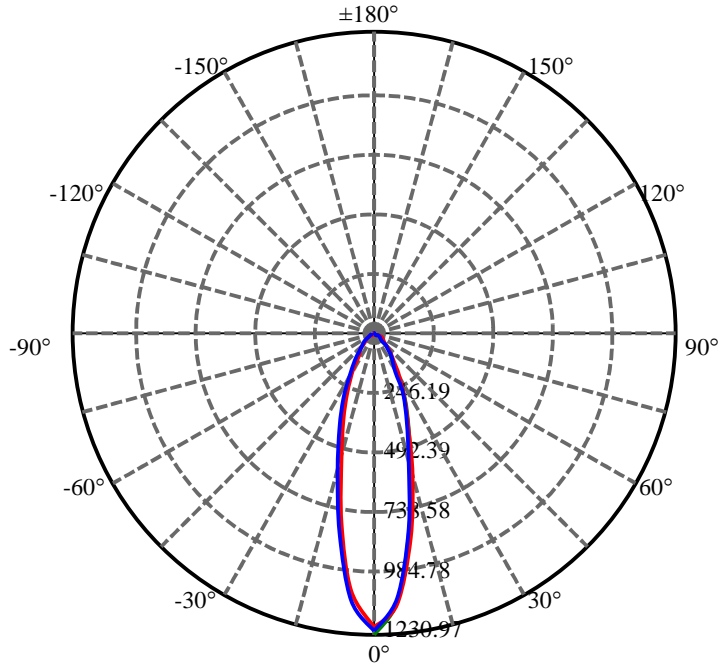
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$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1211.639	0.000	0	.000%	.000%
5.0	1086.803	27.477	27.477	5.495%	4.792%
10.0	818.377	68.154	95.632	13.631%	16.678%
15.0	570.356	82.379	178.01	16.476%	31.046%
20.0	400.607	80.021	258.031	16.004%	45.001%
25.0	282.703	71.667	329.698	14.333%	57.500%
30.0	191.241	59.978	389.676	11.996%	67.961%
35.0	128.879	47.140	436.816	9.428%	76.182%
40.0	92.301	36.902	473.718	7.380%	82.618%
45.0	65.278	29.177	502.895	5.835%	87.706%
50.0	45.037	22.291	525.186	4.458%	91.594%
55.0	31.034	16.540	541.726	3.308%	94.479%
60.0	19.972	11.790	553.516	2.358%	96.535%
65.0	12.370	7.862	561.378	1.572%	97.906%
70.0	8.121	5.189	566.567	1.038%	98.811%
75.0	5.256	3.497	570.063	.699%	99.421%
80.0	2.766	2.146	572.209	.429%	99.795%
85.0	0.757	0.957	573.167	.191%	99.962%
90.0	0.000	0.207	573.374	.041%	99.998%
95.0	0.000	0.000	573.374	.000%	99.998%
100.0	0.000	0.000	573.374	.000%	99.998%
105.0	0.000	0.000	573.374	.000%	99.998%
110.0	0.000	0.000	573.374	.000%	99.998%
115.0	0.000	0.000	573.374	.000%	99.998%
120.0	0.000	0.000	573.374	.000%	99.998%
125.0	0.000	0.000	573.374	.000%	99.998%
130.0	0.000	0.000	573.374	.000%	99.998%
135.0	0.000	0.000	573.374	.000%	99.998%
140.0	0.000	0.000	573.374	.000%	99.998%
145.0	0.000	0.000	573.374	.000%	99.998%
150.0	0.000	0.000	573.374	.000%	99.998%
155.0	0.000	0.000	573.374	.000%	99.998%
160.0	0.019	0.002	573.376	.000%	99.998%
165.0	0.025	0.004	573.379	.001%	99.999%
170.0	0.031	0.003	573.383	.001%	100.000%
175.0	0.013	0.002	573.384	.000%	100.000%
180.0	0.000	0.000	573.385	.000%	100.000%

ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	389.68	77.94%	67.96%
0-40	473.72	94.74%	82.62%
0-60	553.52	110.70%	96.53%
0-90	573.37	114.67%	100.00%
0-120	573.37	114.67%	100.00%
0-180	573.38	114.68%	100.00%
60-90	31.65	6.33%	5.52%
90-120	0.21	0.04%	0.04%
90-130	0.21	0.04%	0.04%
90-150	0.21	0.04%	0.04%
90-180	0.22	0.04%	0.04%
0-37.97	458.71	91.74%	80.00%

ZONAL LUMEN SUMMARY

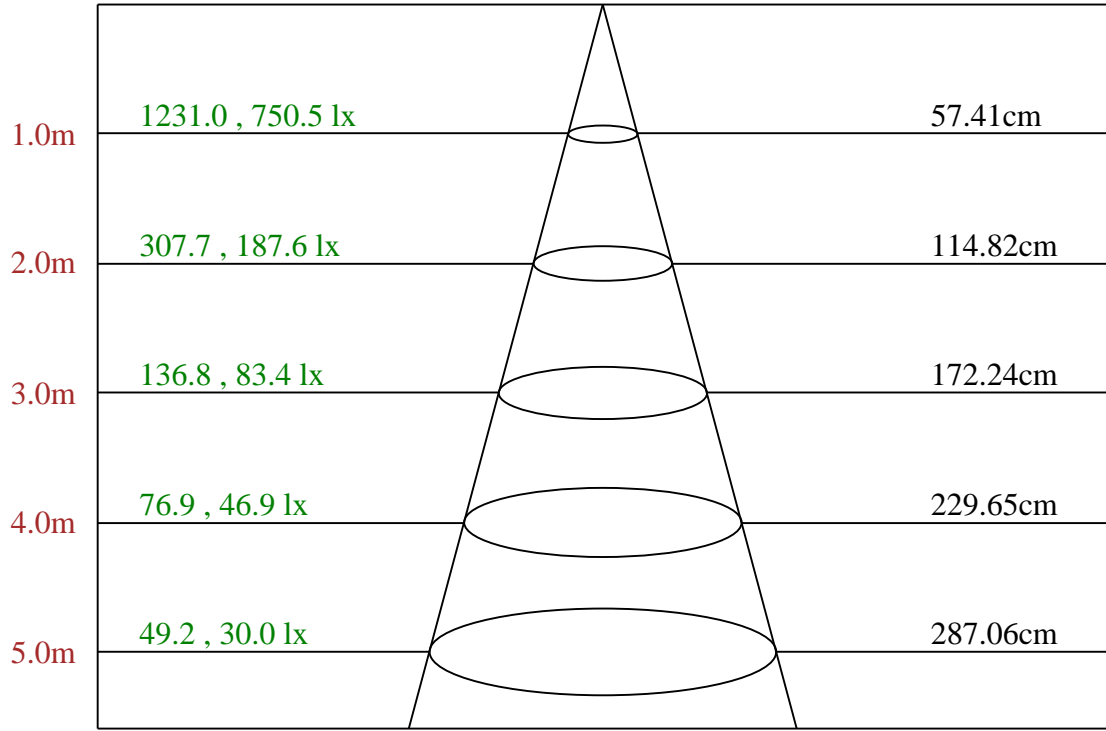
0-10	95.63
10-20	162.40
20-30	131.64
30-40	84.04
40-50	51.47
50-60	28.33
60-70	13.05
70-80	5.64
80-90	1.16
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.01
170-180	0.00



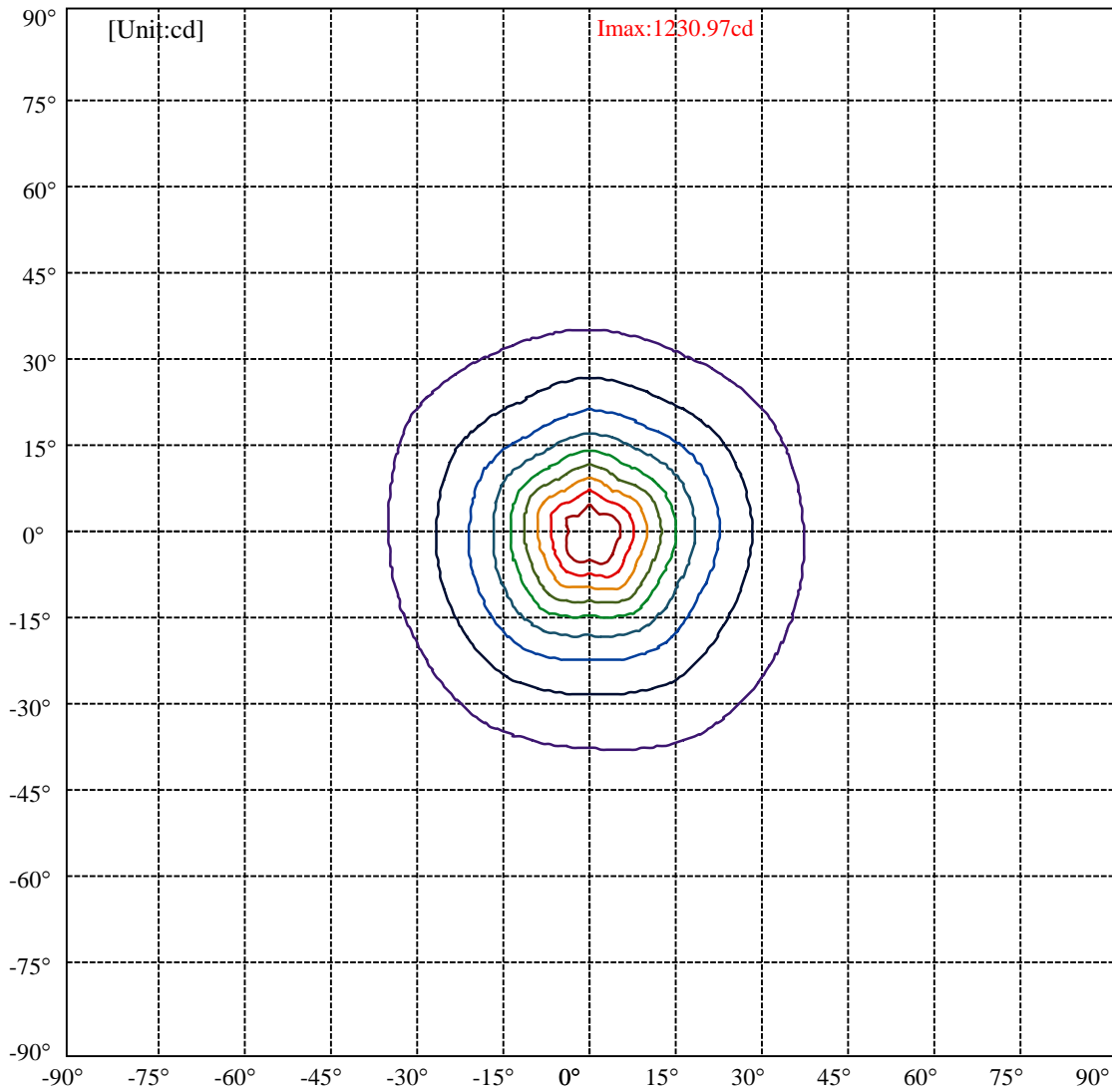
C30(Max): ———
C0/C180: ———
C90/C270: ———

Field angle(10%Imax):C0/180Left:34.5 Right:37.0
:C90/270Left:37.2 Right:34.7

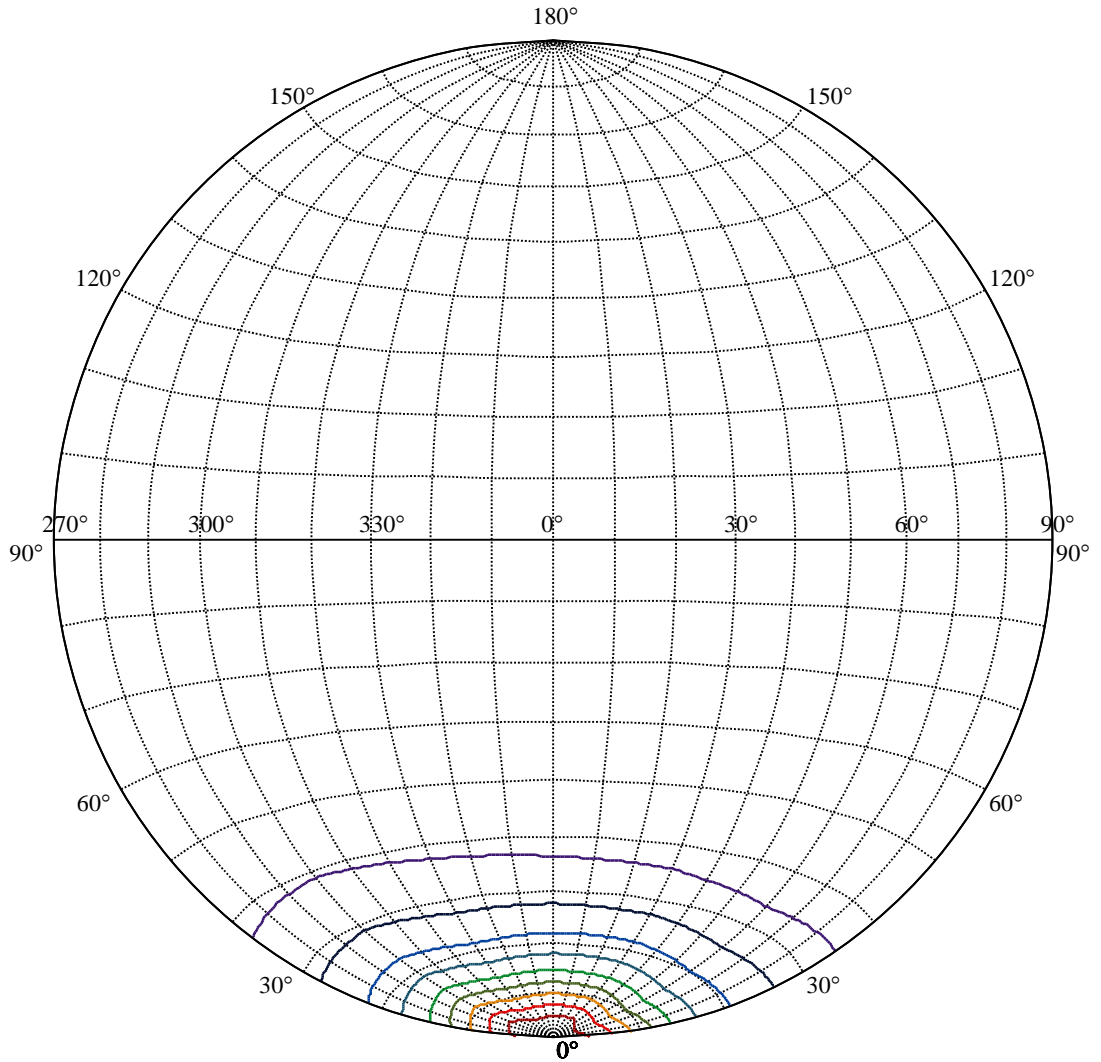
Beam Angle(50%Imax):C0/180Left:13.6 Right:15.0
:C90/270Left:14.5 Right:13.8



Max , Ave Beam angle of C30 plane 32.03



(10% I _{max}) 121.468	—
(20% I _{max}) 242.936	—
(30% I _{max}) 364.404	—
(40% I _{max}) 485.872	—
(50% I _{max}) 607.34	—
(60% I _{max}) 728.808	—
(70% I _{max}) 850.276	—
(80% I _{max}) 971.744	—
(90% I _{max}) 1093.21	—



House

[Unit:cd]

Road

Imax:1230.97

(10%Imax) 123.097

(20%Imax) 246.195

(30%Imax) 369.292

(40%Imax) 492.389

(50%Imax) 615.487

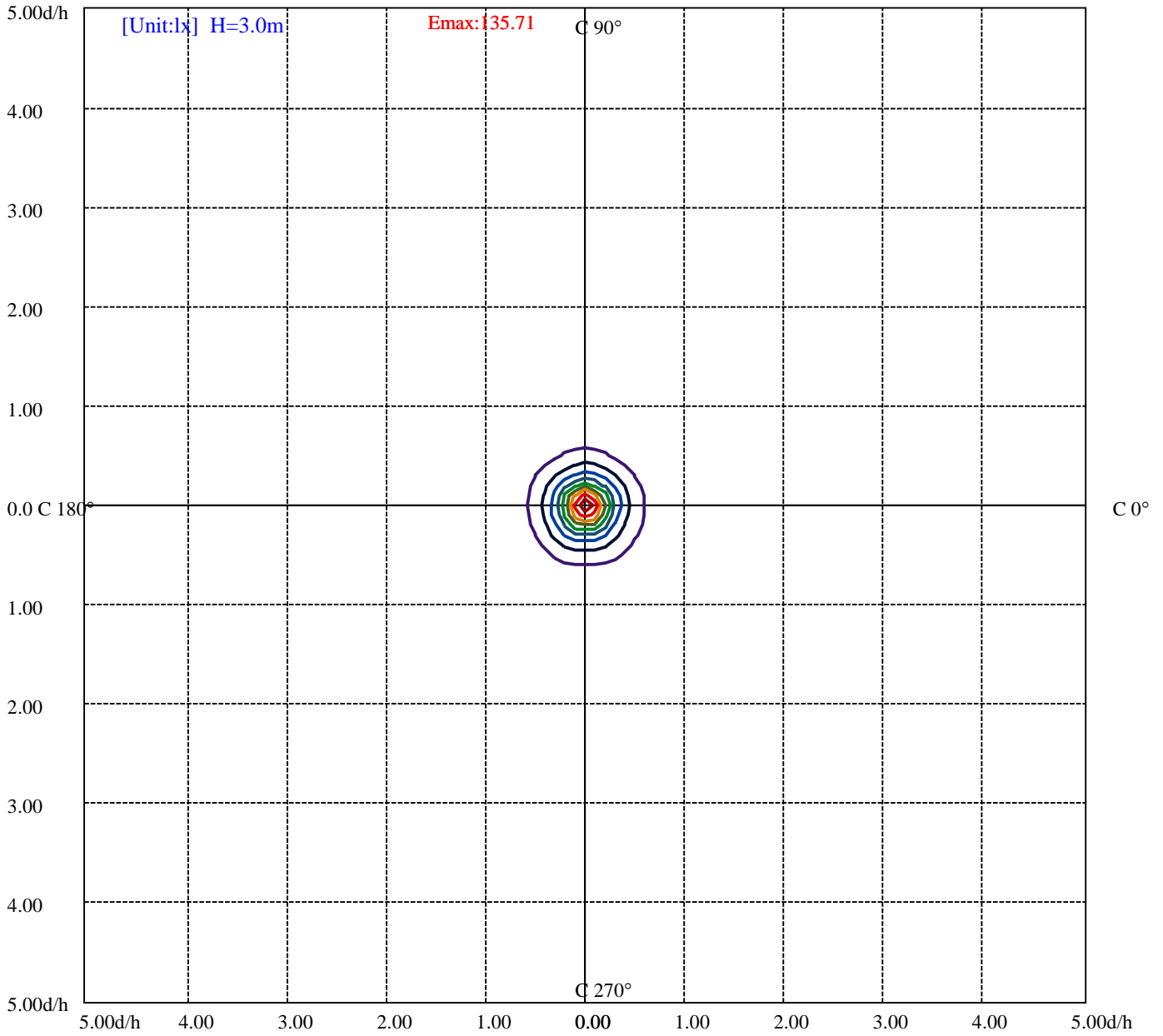
(60%Imax) 738.584

(70%Imax) 861.681

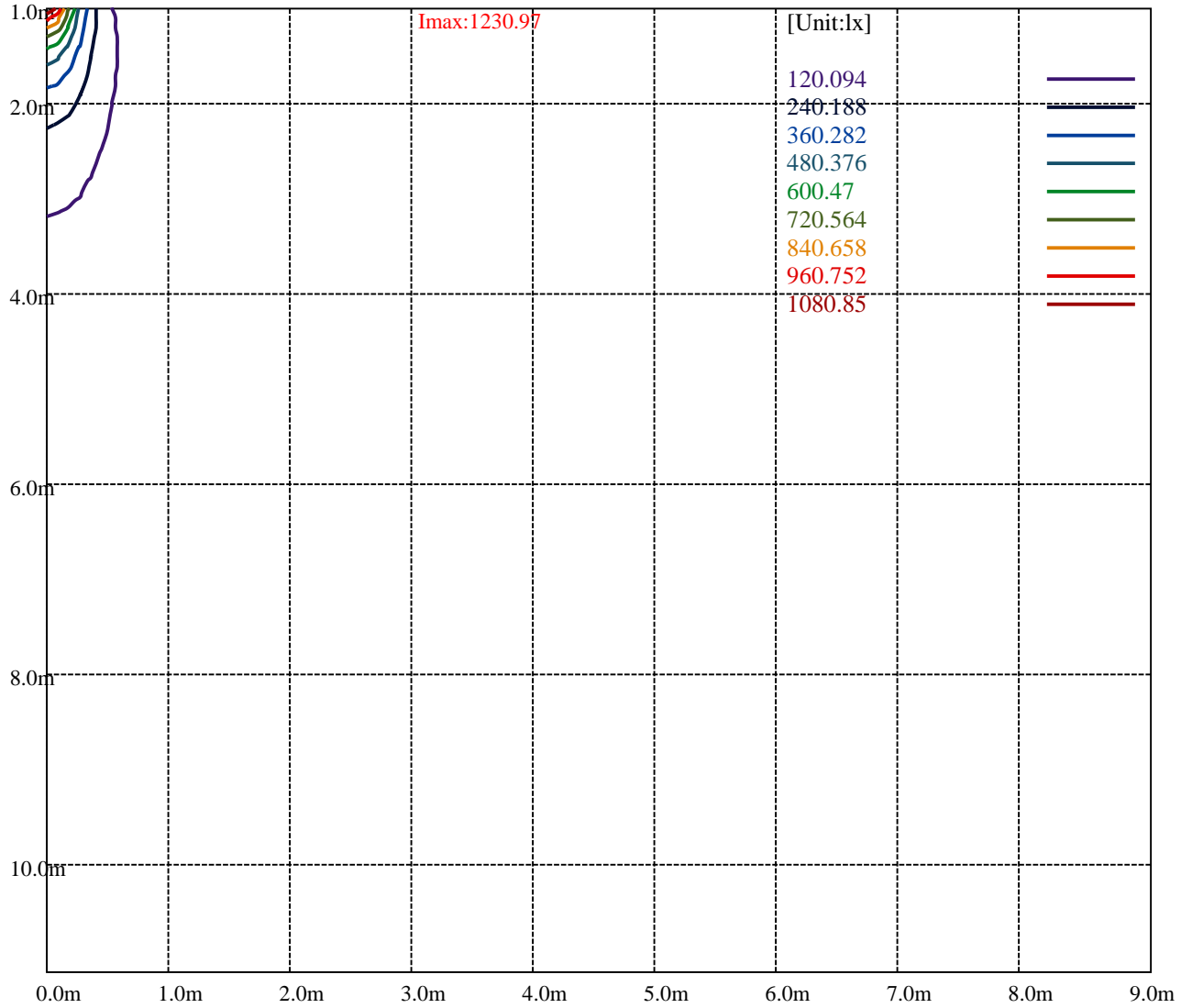
(80%Imax) 984.778

(90%Imax) 1107.88





- (10% Emax) 13.57067
- (20% Emax) 27.14122
- (30% Emax) 40.71189
- (40% Emax) 54.28244
- (50% Emax) 67.85311
- (60% Emax) 81.42367
- (70% Emax) 94.99433
- (80% Emax) 108.565
- (90% Emax) 122.1356



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Luminance Limiting Curve(no luminous side)

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Luminance Table

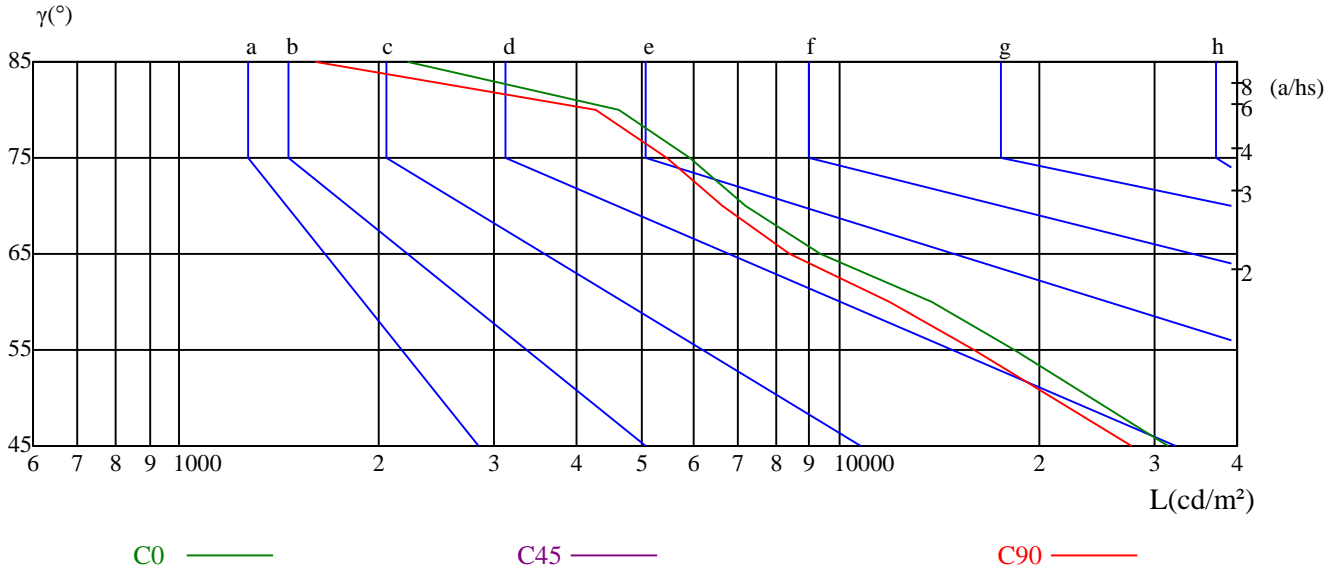
γ	45	50	55	60	65	70	75	80	85
C0	31499	24094	18388	13823	9371	7192	5911	4621	2213
C45	0	0	0	0	0	0	0	0	0
C90	27672	21059	16002	11908	8390	6664	5489	4266	1609

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9632	9955	0	6713	6809	0	2705	2848	0

Glare Table

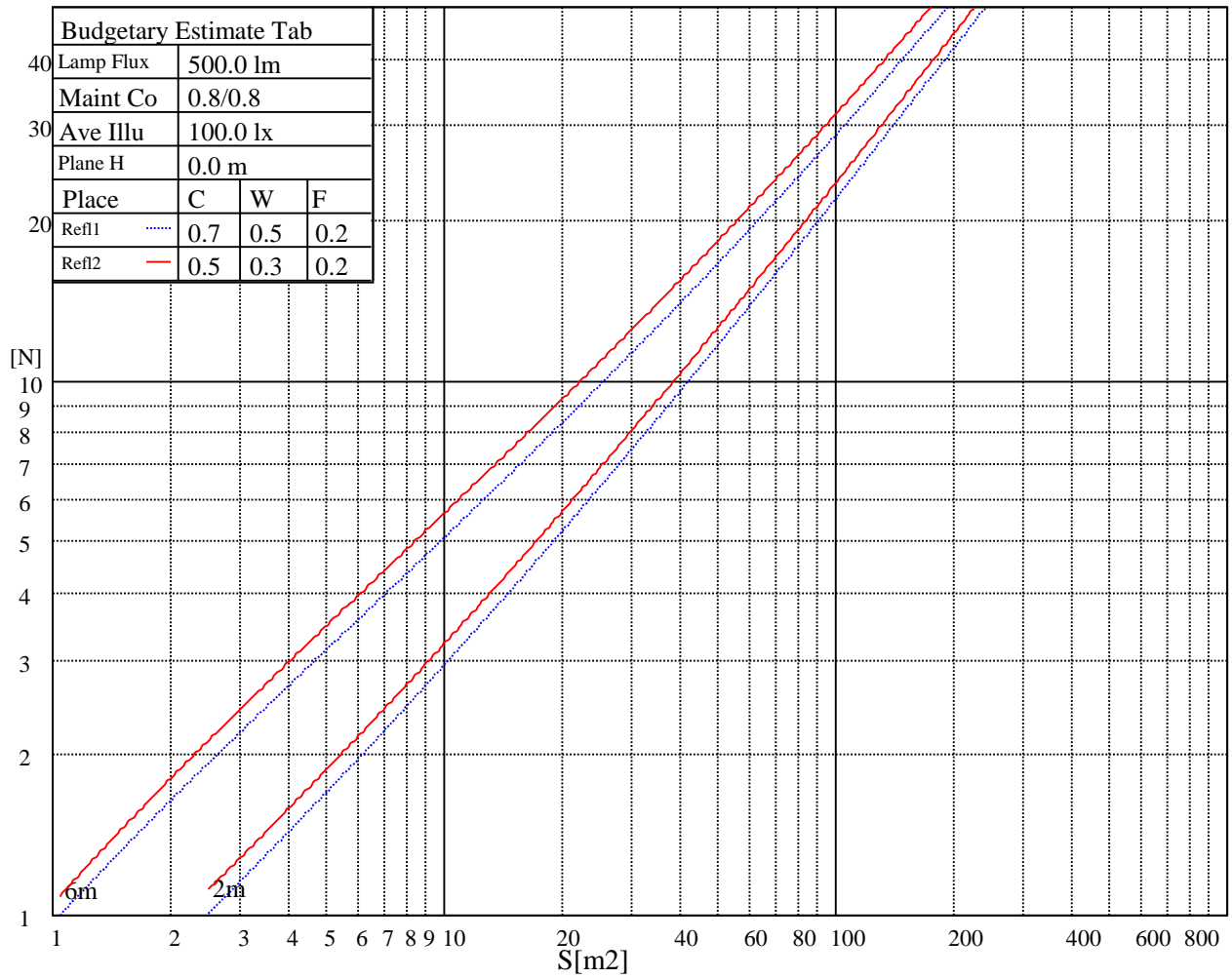
Glare	Quality	Service Values Illuminance(lx)							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve



Illumination assessment according 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	19.97	21.10	20.33	21.41	21.73	19.11	20.24	19.47	20.55	20.86
	3H	20.21	21.21	20.59	21.55	21.89	19.36	20.36	19.74	20.70	21.04
	4H	20.27	21.20	20.67	21.55	21.92	19.43	20.36	19.83	20.72	21.08
	6H	20.31	21.16	20.72	21.53	21.93	19.48	20.33	19.89	20.70	21.10
	8H	20.27	21.09	20.69	21.47	21.88	19.44	20.26	19.86	20.64	21.05
4H	12H	20.22	21.00	20.65	21.39	21.81	19.39	20.16	19.81	20.56	20.97
	2H	19.93	20.85	20.32	21.21	21.57	19.13	20.06	19.53	20.41	20.78
	3H	20.22	21.00	20.65	21.39	21.81	19.44	20.22	19.87	20.61	21.03
	4H	20.38	21.05	20.82	21.47	21.92	19.61	20.28	20.04	20.70	21.15
	6H	20.42	21.01	20.89	21.46	21.91	19.65	20.24	20.12	20.69	21.14
8H	8H	20.42	20.97	20.91	21.43	21.90	19.64	20.19	20.13	20.65	21.12
	12H	20.41	20.91	20.89	21.36	21.88	19.62	20.12	20.10	20.57	21.09
	4H	20.29	20.84	20.77	21.29	21.76	19.54	20.09	20.02	20.54	21.01
	6H	20.36	20.81	20.86	21.29	21.80	19.59	20.05	20.10	20.52	21.03
	8H	20.43	20.81	20.96	21.33	21.83	19.65	20.03	20.18	20.55	21.05
12H	12H	20.42	20.72	20.95	21.24	21.76	19.62	19.93	20.16	20.45	20.97
	4H	20.25	20.75	20.73	21.20	21.72	19.50	20.01	19.99	20.46	20.98
	6H	20.36	20.75	20.89	21.27	21.76	19.61	19.99	20.13	20.51	21.00
	8H	20.40	20.70	20.93	21.22	21.74	19.62	19.93	20.16	20.45	20.97
Variation with the observer position at spacings:											
S = 1.0H		1.3/-1.7					1.3/-1.6				
S = 1.5H		2.6/-2.8					2.8/-2.7				
S = 2.0H		5.0/-3.6					5.2/-3.6				
Standard tables:		BK2					BK1				
Uncorrected UGR		1.8					2.1				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25

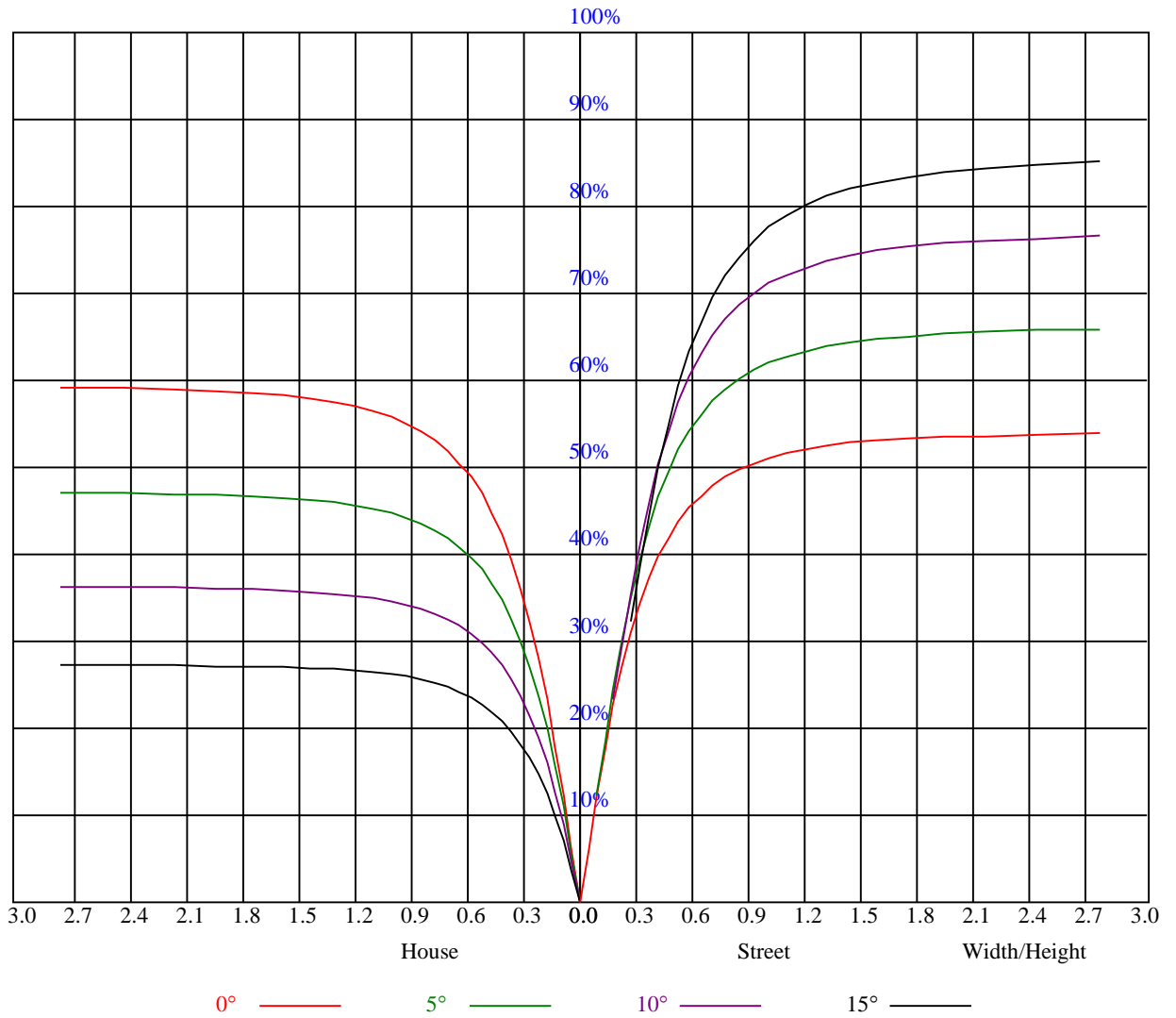


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Utilization factor table for indoor luminaire

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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	1.37	1.37	1.37	1.33	1.33	1.33	1.27	1.27	1.27	1.22	1.22	1.22	1.17	1.17	1.17	1.15
1	1.26	1.23	1.21	1.24	1.21	1.19	1.19	1.17	1.15	1.15	1.13	1.12	1.11	1.10	1.08	1.06
2	1.17	1.12	1.08	1.15	1.11	1.07	1.11	1.08	1.04	1.08	1.05	1.02	1.05	1.02	1.00	0.98
3	1.09	1.03	0.98	1.07	1.02	0.97	1.04	0.99	0.96	1.01	0.97	0.94	0.99	0.95	0.93	0.91
4	1.01	0.95	0.90	1.00	0.94	0.89	0.98	0.92	0.88	0.95	0.91	0.87	0.93	0.89	0.86	0.84
5	0.95	0.88	0.83	0.94	0.88	0.83	0.92	0.86	0.82	0.90	0.85	0.81	0.88	0.84	0.81	0.79
6	0.89	0.82	0.77	0.89	0.82	0.77	0.87	0.81	0.77	0.85	0.80	0.76	0.84	0.79	0.76	0.74
7	0.84	0.77	0.73	0.84	0.77	0.72	0.82	0.76	0.72	0.81	0.76	0.72	0.79	0.75	0.71	0.70
8	0.80	0.73	0.68	0.79	0.73	0.68	0.78	0.72	0.68	0.77	0.71	0.68	0.76	0.71	0.67	0.66
9	0.76	0.69	0.65	0.75	0.69	0.64	0.74	0.68	0.64	0.73	0.68	0.64	0.72	0.67	0.64	0.62
10	0.72	0.66	0.61	0.72	0.65	0.61	0.71	0.65	0.61	0.70	0.65	0.61	0.69	0.64	0.61	0.59



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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	1200.94	1108.74	849.10	600.58	423.69	300.10	203.55	135.07	96.93
30.0	1230.97	1103.78	833.56	578.51	414.83	292.37	189.28	128.47	93.25
60.0	1211.75	1027.35	736.86	517.69	372.41	255.81	157.97	110.37	78.54
90.0	1214.68	1086.44	810.59	544.27	386.45	269.55	179.00	117.20	85.22
120.0	1204.62	1022.85	746.92	509.13	342.98	243.12	166.61	112.92	81.69
150.0	1206.87	1088.99	824.25	553.36	384.42	269.77	188.16	128.99	90.40
180.0	1200.94	1051.83	785.74	529.03	377.51	265.12	174.34	114.50	82.74
210.0	1230.97	1077.73	793.54	565.82	401.92	283.29	183.95	118.18	85.82
240.0	1211.75	1130.06	871.33	637.97	441.03	315.12	211.58	138.98	96.11
270.0	1214.68	1094.47	826.88	581.81	411.15	296.42	204.75	138.68	100.16
300.0	1204.62	1154.39	910.90	646.61	448.47	315.95	230.43	159.17	113.97
330.0	1206.87	1095.00	830.86	579.48	402.44	285.84	205.27	144.01	102.79
360.0	1200.94	1108.74	849.10	600.58	423.69	300.10	203.55	135.07	96.93
C/γ(°)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	69.83	48.88	33.56	22.22	12.91	8.18	5.26	2.93	0.83
30.0	63.97	43.10	28.16	17.64	11.19	7.36	4.81	2.63	0.83
60.0	55.71	38.59	25.08	14.64	9.69	6.68	4.28	1.95	0.38
90.0	61.34	42.72	29.21	19.15	11.56	7.58	4.88	2.70	0.60
120.0	57.36	39.42	27.71	17.42	10.59	7.06	4.43	2.18	0.30
150.0	63.22	44.00	31.08	20.42	12.46	8.33	5.48	2.85	0.75
180.0	58.79	40.77	28.38	18.62	11.71	8.03	5.26	2.48	0.60
210.0	60.44	41.67	27.86	17.04	11.34	7.81	5.18	2.70	0.68
240.0	68.93	48.13	33.34	21.55	13.36	8.86	6.01	3.45	1.28
270.0	71.48	48.28	32.74	21.47	13.89	9.08	5.78	3.08	0.90
300.0	79.66	55.34	40.17	26.73	15.84	9.76	6.31	3.45	1.20
330.0	72.60	49.55	35.14	22.75	13.89	8.71	5.41	2.78	0.75
360.0	69.83	48.88	33.56	22.22	12.91	8.18	5.26	2.93	0.83
C/γ(°)	90.0	95.0	100.0	105.0	110.0	115.0	120.0	125.0	130.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
C/γ(°)	135.0	140.0	145.0	150.0	155.0	160.0	165.0	170.0	175.0
0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.08
30.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
60.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
120.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
150.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
210.0	0.00	0.00	0.00	0.00	0.00	0.15	0.08	0.08	0.08
240.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.00
270.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00
300.0	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00
330.0	0.00	0.00	0.00	0.00	0.00	0.08	0.08	0.00	0.00
360.0	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.00	0.08

Intensity data(cd)

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