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## Nata

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LumCAT: 1-0942-N	
Luminaire: 92.70.259.00	
Report No: 200923-B043	Voltage(V): 230.9000
Test No: 200923-C043	Current(A): 0.0910
LampCAT: BRIDGELUX V6HD	Power (W): 11.4100
Lamp flux(lm): 1100.5	PF: 0.5400
Number of Lamps: 1	Ballast type: AC
Length(feet)(ft.):0.000	Width(feet)(ft.):0.000
Phm Type: C	Height(feet)(ft.):0.000

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## Photometric Results

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Lumens(lm): 839.66  
Efficiency(%): 76.30%  
Lumens(lm)/Power(W): 73.59  
Central intensity(cd): 2251.026  
Maximum intensity(cd): 2251.026  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=34.0  
                                  [C90/270]Total=34.0  
Field angle(10%Imax): [C0/180]Total=58.7  
                                  [C90/270]Total=58.7  
Maximum s/h(1/2): C0\_180=0.55 C90\_270=0.55  
Maximum s/h(1/4): C0\_180=0.58 C90\_270=0.58  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 77.45%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.095%

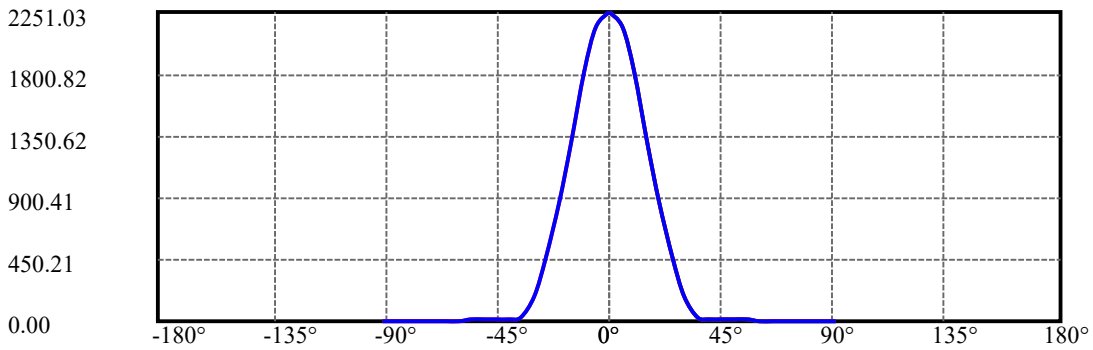
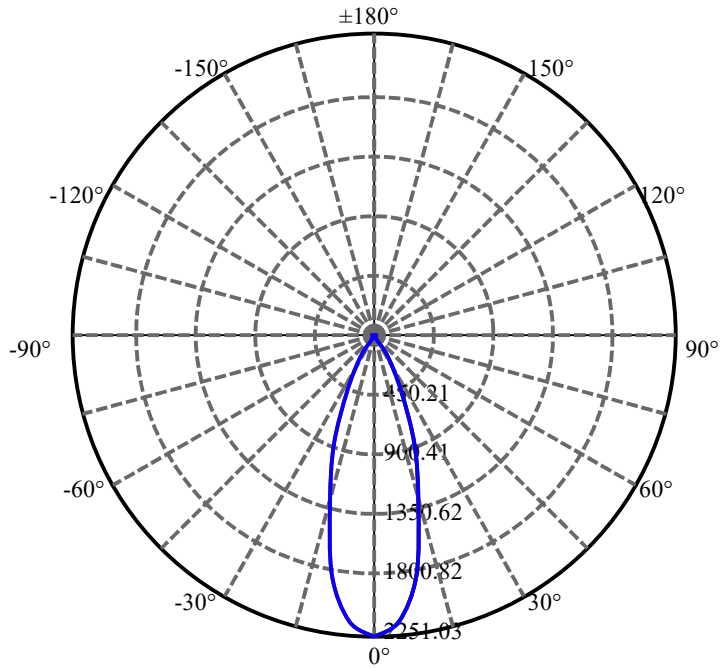
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2251.026	13.462	13.462	1.223%	1.603%
5.0	2146.039	102.523	115.985	9.316%	13.813%
10.0	1824.289	173.641	289.626	15.779%	34.493%
15.0	1291.997	183.293	472.92	16.656%	56.322%
20.0	871.768	163.434	636.354	14.851%	75.787%
25.0	465.576	107.852	744.206	9.801%	88.631%
30.0	187.754	51.457	795.663	4.676%	94.760%
35.0	33.573	10.555	806.219	.959%	96.017%
40.0	16.380	5.771	811.99	.524%	96.704%
45.0	12.192	4.726	816.716	.429%	97.267%
50.0	9.640	4.048	820.764	.368%	97.749%
55.0	8.051	3.615	824.379	.328%	98.180%
60.0	6.711	3.186	827.564	.289%	98.559%
65.0	5.470	2.717	830.282	.247%	98.883%
70.0	4.611	2.375	832.657	.216%	99.165%
75.0	4.171	2.208	834.865	.201%	99.428%
80.0	3.834	2.070	836.935	.188%	99.675%
85.0	3.637	1.986	838.921	.180%	99.911%
90.0	2.715	0.744	839.664	.068%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	795.66	72.30%	94.76%
0-40	811.99	73.79%	96.70%
0-60	827.56	75.20%	98.56%
0-90	838.92	76.23%	99.91%
0-120	838.92	76.23%	99.91%
0-180	839.66	76.30%	100.00%
60-90	14.54	1.32%	1.73%
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%
0-21.64	671.73	61.04%	80.00%

ZONAL LUMEN SUMMARY

0-10	289.63
10-20	346.73
20-30	159.31
30-40	16.33
40-50	8.77
50-60	6.80
60-70	5.09
70-80	4.28
80-90	1.99
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: —————

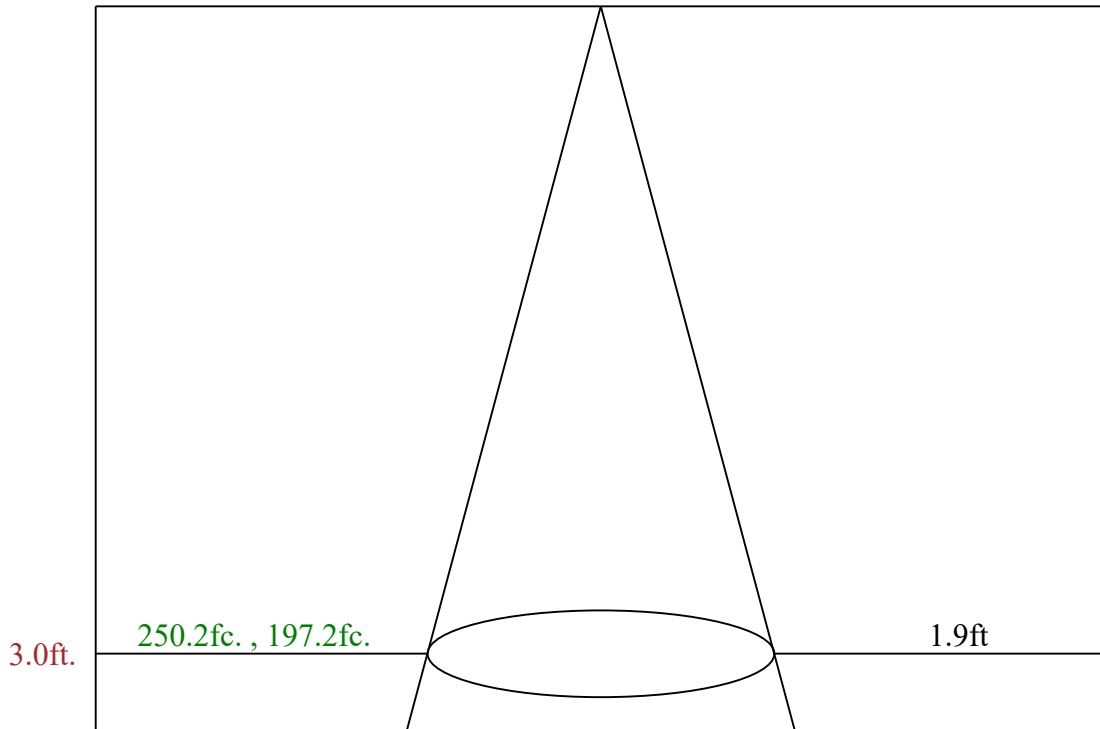
C90/C270: —————

Field angle(10%Imax):C0/180Left:29.3 Right:29.3

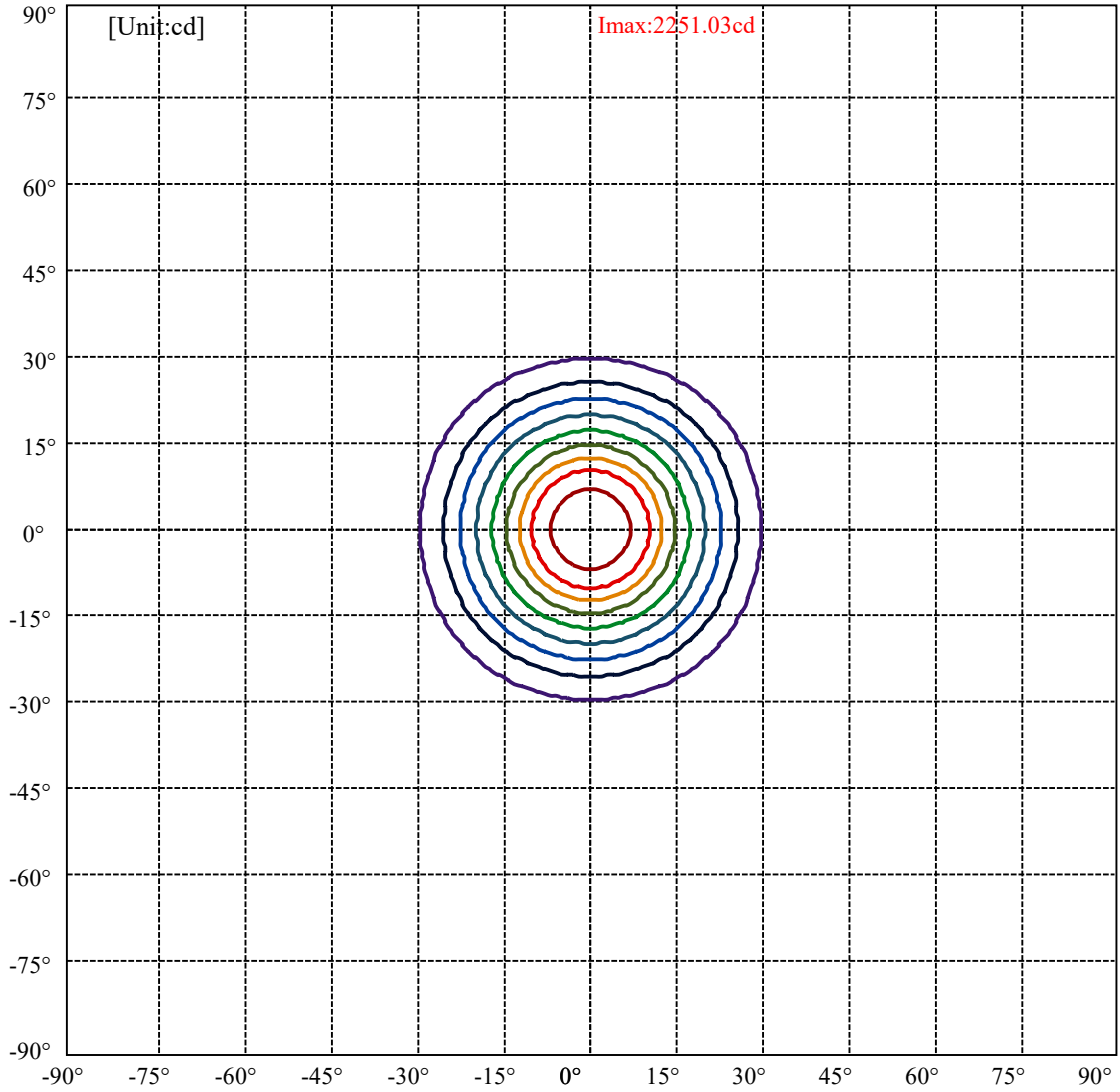
:C90/270Left:29.3 Right:29.3

Beam Angle(50%Imax):C0/180Left:17.0 Right:17.0

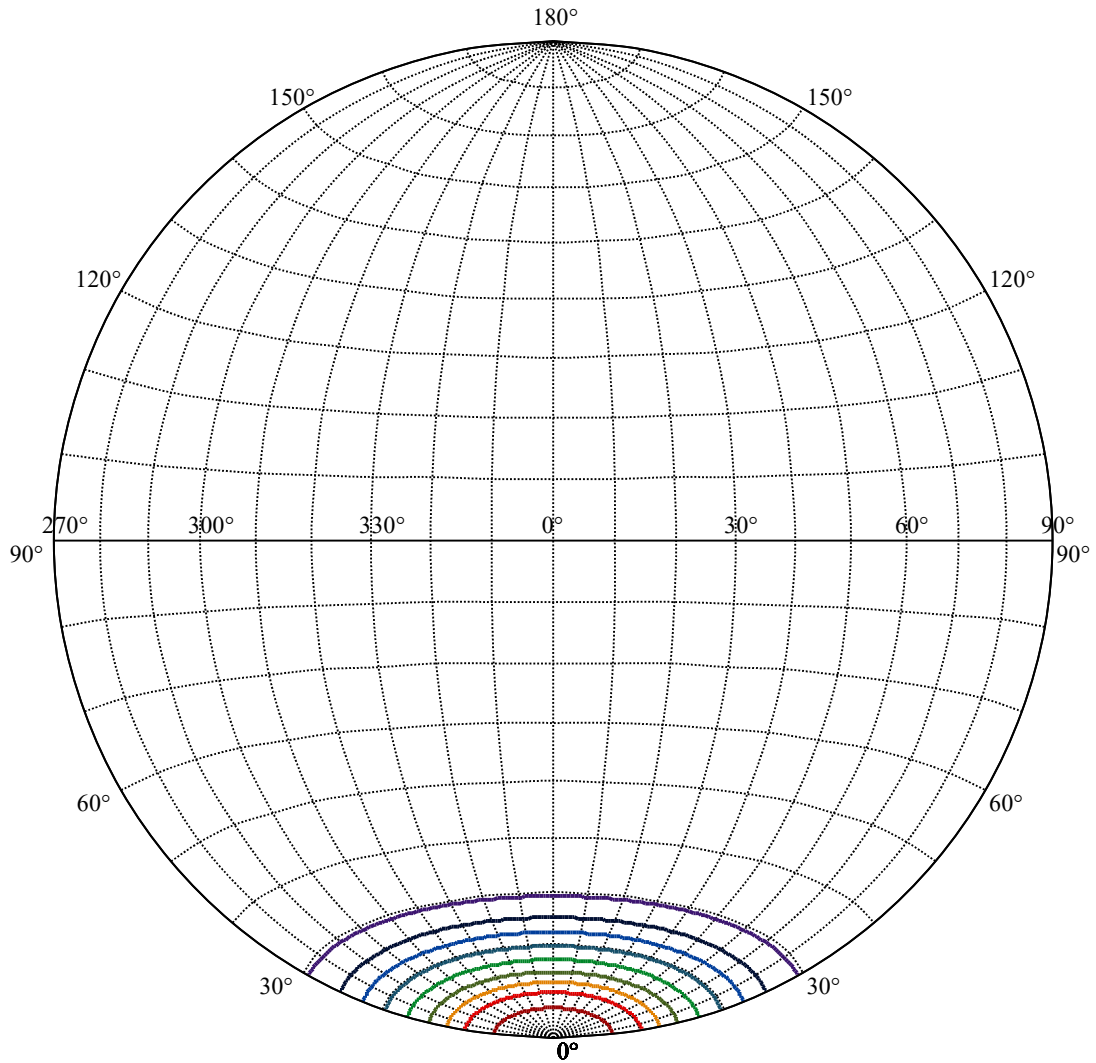
:C90/270Left:17.0 Right:17.0



Max , Ave      Beam angle of C0 plane 35.21



(10%Imax) 225.103	—
(20%Imax) 450.205	—
(30%Imax) 675.308	—
(40%Imax) 900.41	—
(50%Imax) 1125.51	—
(60%Imax) 1350.62	—
(70%Imax) 1575.72	—
(80%Imax) 1800.82	—
(90%Imax) 2025.92	—



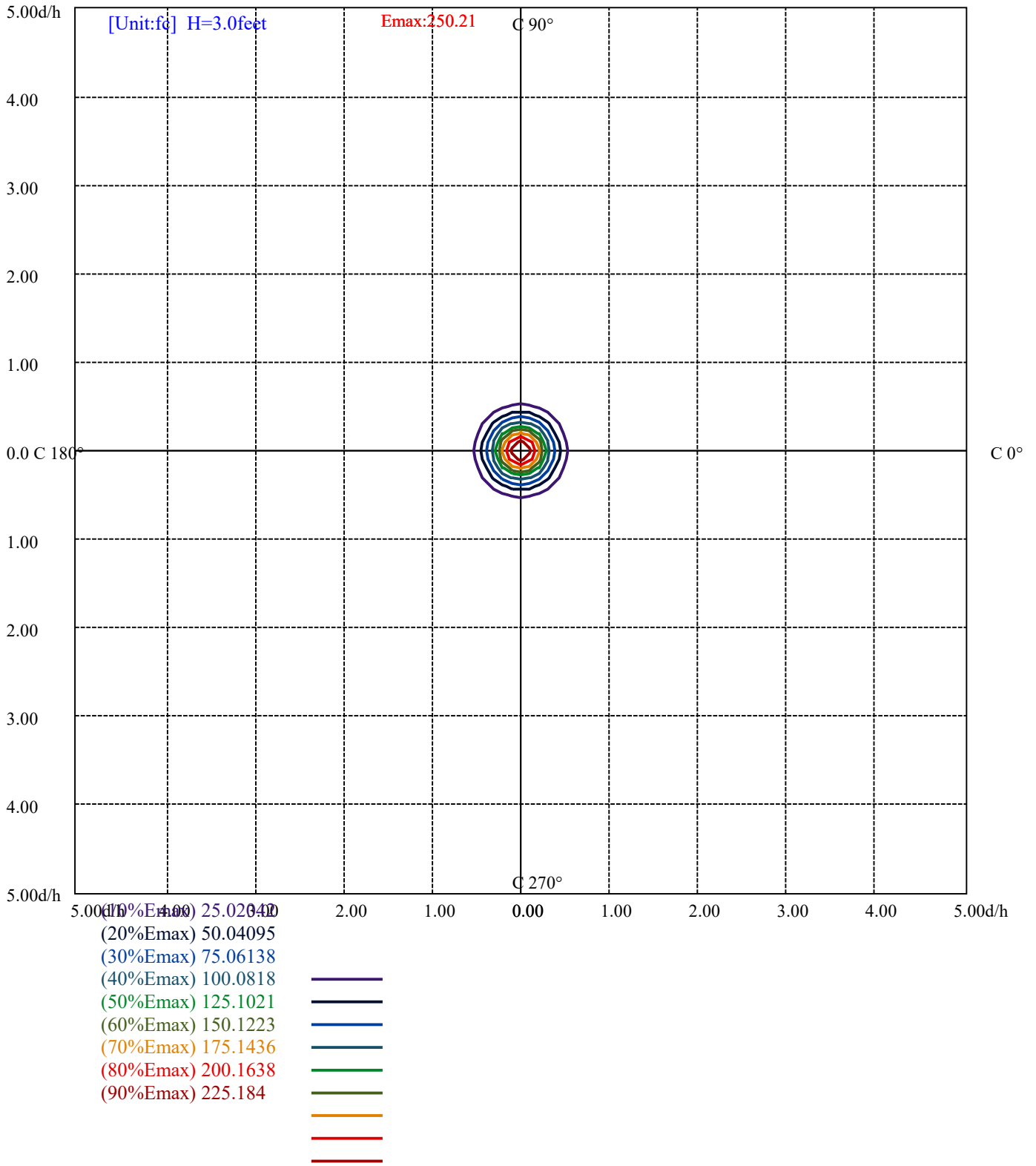
House

[Unit:cd]

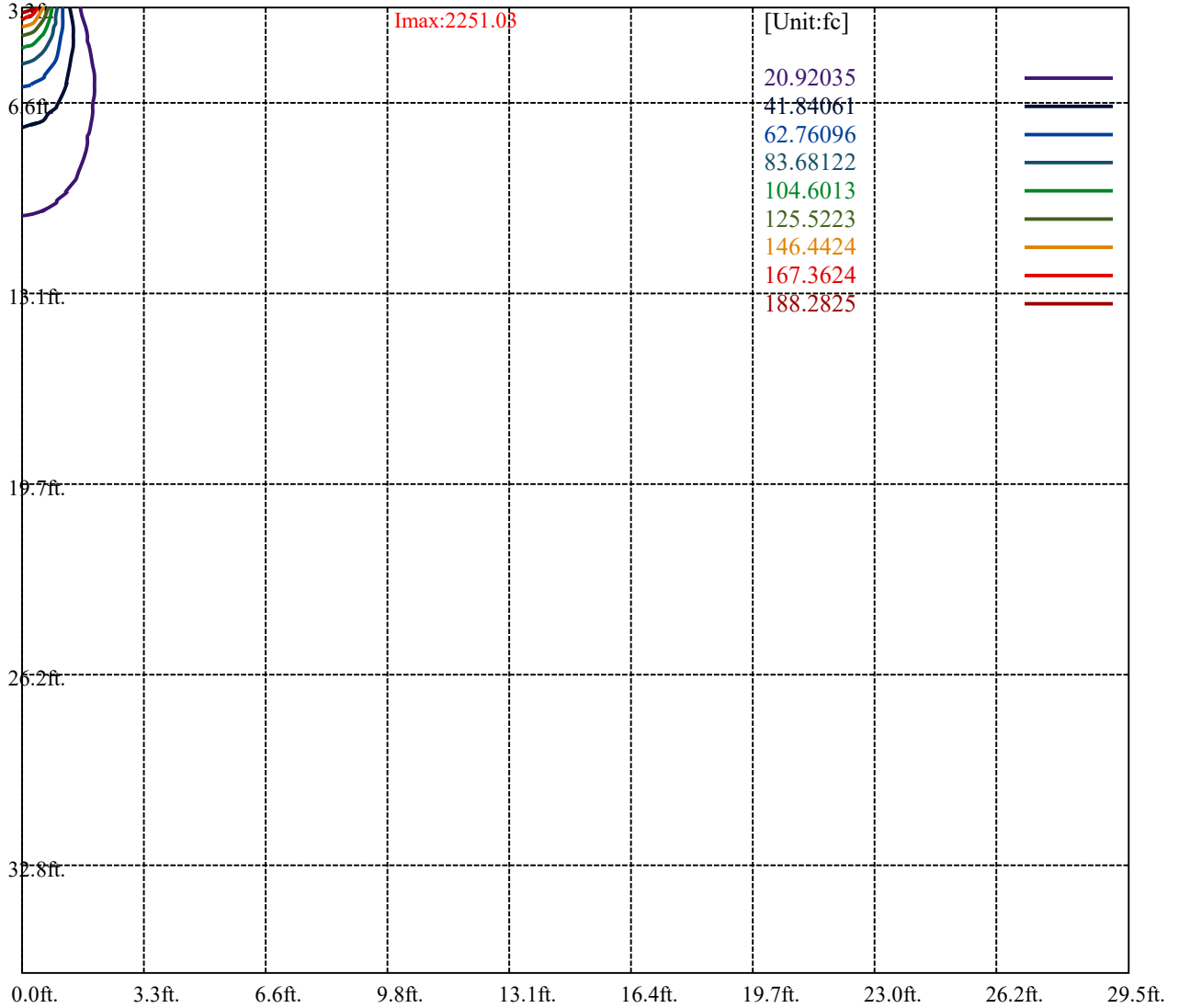
Road

**Imax:2251.03**

(10%Imax) 225.103	—
(20%Imax) 450.205	—
(30%Imax) 675.308	—
(40%Imax) 900.41	—
(50%Imax) 1125.51	—
(60%Imax) 1350.62	—
(70%Imax) 1575.72	—
(80%Imax) 1800.82	—
(90%Imax) 2025.92	—







Luminance Table

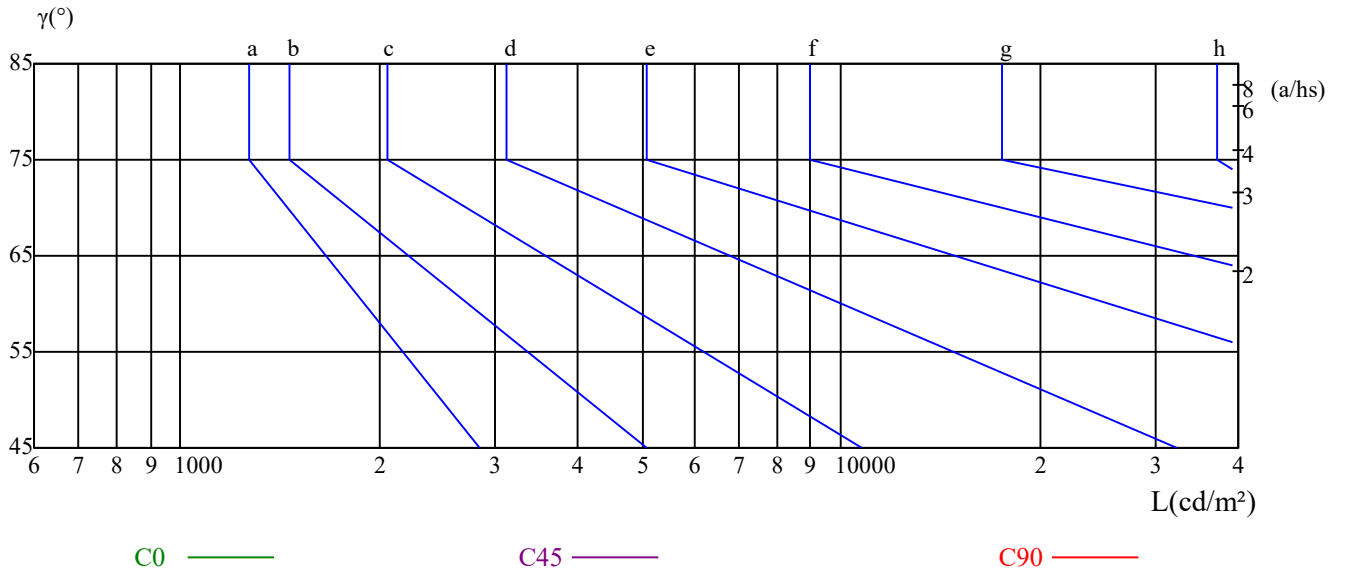
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

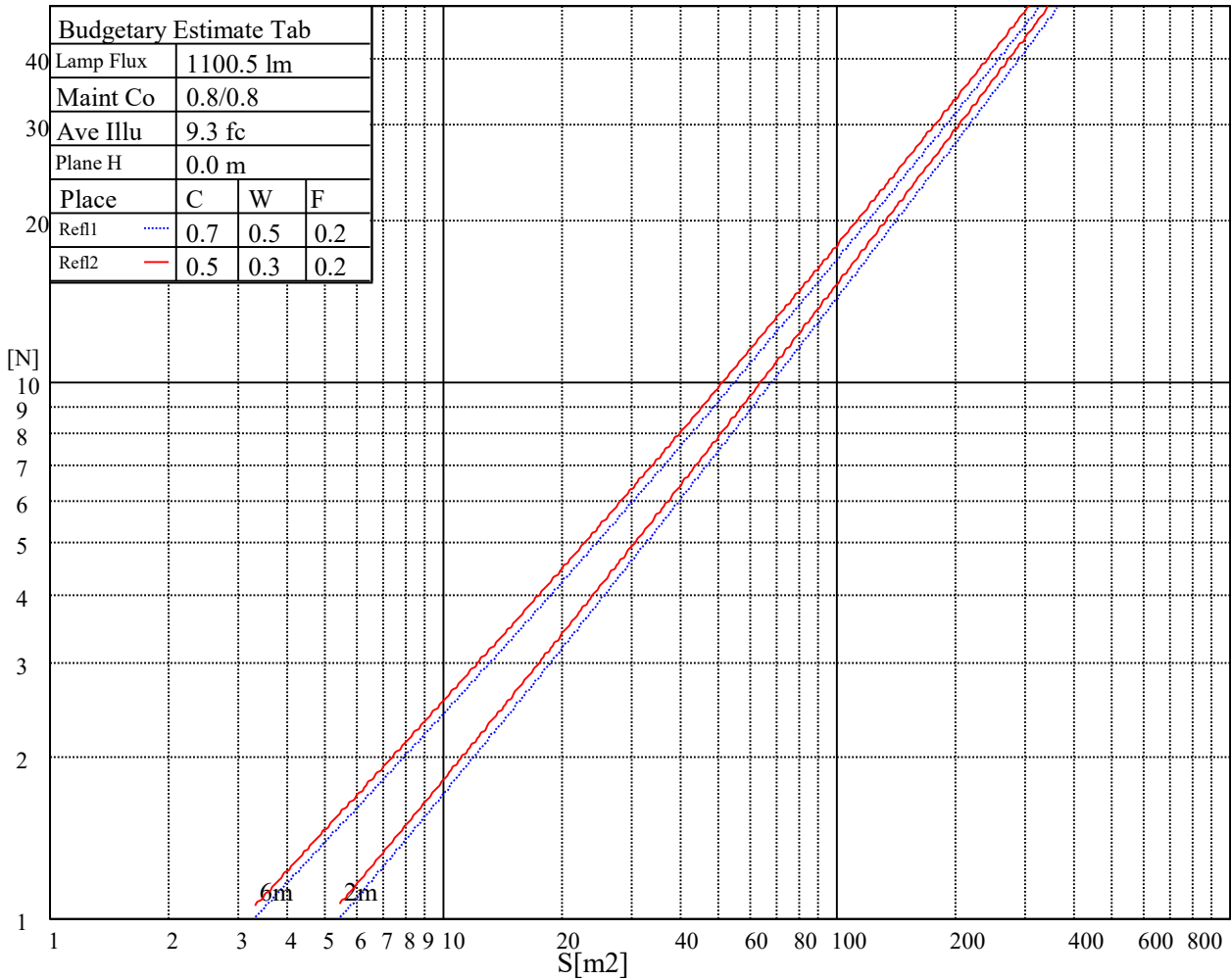
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

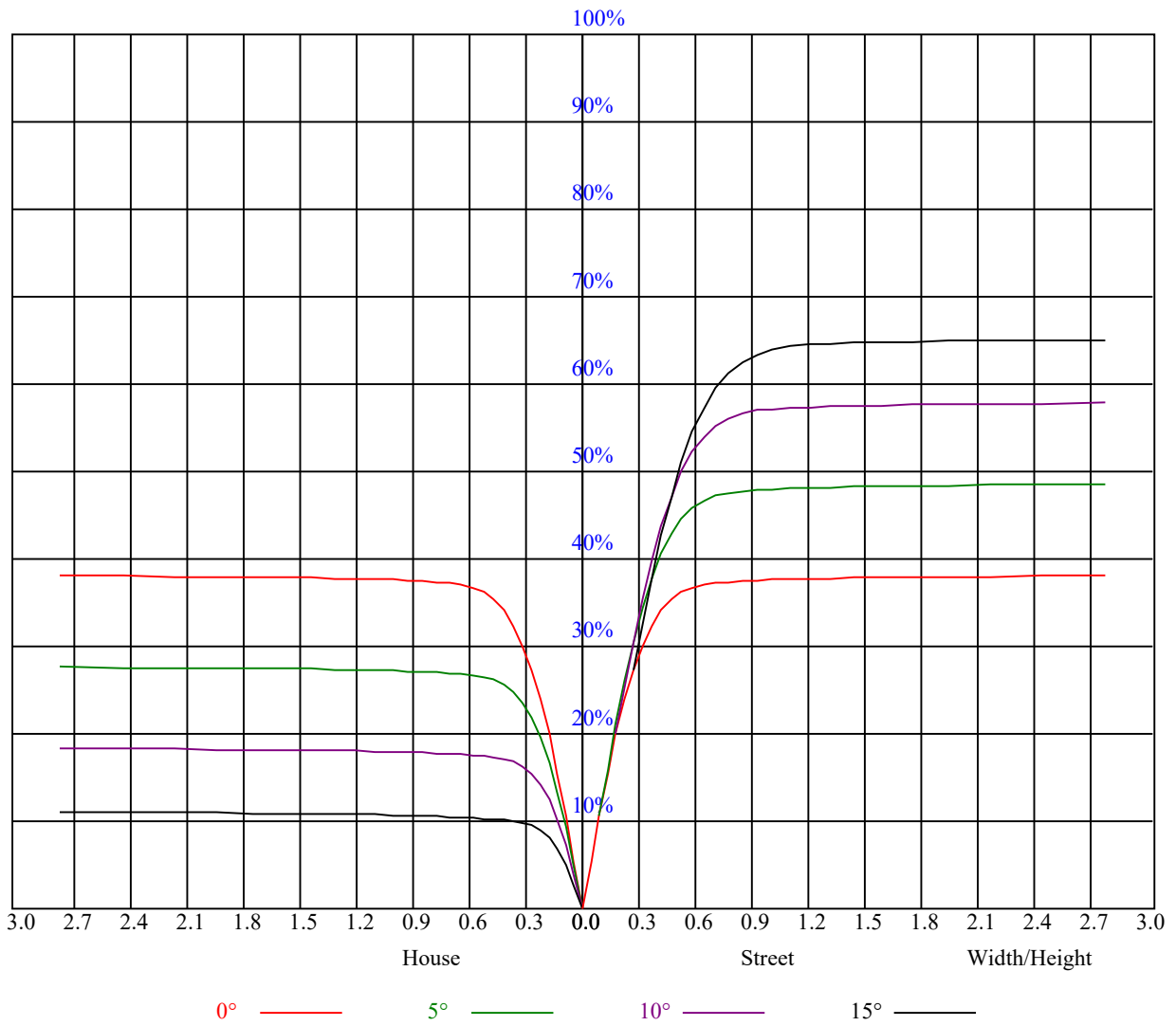
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve





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	0.92	0.92	0.92	0.90	0.90	0.90	0.86	0.86	0.86	0.82	0.82	0.82	0.79	0.79	0.79	0.77
1	0.85	0.83	0.82	0.84	0.82	0.80	0.81	0.79	0.78	0.78	0.77	0.76	0.75	0.74	0.73	0.72
2	0.81	0.78	0.76	0.80	0.77	0.75	0.77	0.75	0.73	0.75	0.73	0.72	0.73	0.72	0.70	0.69
3	0.77	0.74	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.73	0.70	0.69	0.71	0.69	0.68	0.67
4	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.70	0.68	0.66	0.69	0.67	0.65	0.64
5	0.71	0.68	0.65	0.71	0.67	0.65	0.69	0.66	0.64	0.68	0.66	0.64	0.67	0.65	0.63	0.62
6	0.69	0.65	0.62	0.68	0.65	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.65	0.63	0.61	0.60
7	0.66	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.63	0.61	0.59	0.58
8	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.58	0.62	0.59	0.57	0.57
9	0.62	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.58	0.56	0.55
10	0.60	0.57	0.55	0.60	0.57	0.55	0.59	0.57	0.55	0.59	0.56	0.54	0.58	0.56	0.54	0.54



Intensity data(cd)

C/\u03b3(\u00b0)	0.0	5.0	10.0	15.0	20.0	25.0	30.0	35.0	40.0
0.0	2240.12	2046.16	1664.26	875.03	691.36	335.73	105.80	19.21	13.87
45.0	2248.01	2174.69	1907.87	1398.83	941.29	520.41	251.27	32.20	16.24
90.0	2258.68	2107.87	1710.66	1113.91	757.16	359.63	105.85	21.72	14.85
135.0	2257.29	2231.77	1911.59	1503.24	1005.79	565.89	269.37	43.85	18.70
180.0	2240.12	2220.17	1967.73	1584.44	1008.11	600.69	268.91	61.62	18.42
225.0	2248.01	2111.12	1763.56	1251.73	814.80	397.91	130.67	25.43	15.03
270.0	2258.68	2218.31	1962.63	1487.92	995.58	560.78	264.27	41.62	19.16
315.0	2257.29	2058.22	1706.02	1120.87	760.04	383.57	105.89	22.92	14.76
360.0	2240.12	2046.16	1664.26	875.03	691.36	335.73	105.80	19.21	13.87
C/\u03b3(\u00b0)	45.0	50.0	55.0	60.0	65.0	70.0	75.0	80.0	85.0
0.0	10.72	8.49	6.96	5.57	4.36	3.62	3.16	2.92	3.25
45.0	12.20	9.61	7.89	6.50	5.06	3.99	3.34	2.92	2.55
90.0	10.77	8.72	6.91	5.61	4.41	3.57	3.11	2.78	2.55
135.0	13.69	10.02	8.21	6.64	5.10	4.08	3.43	3.06	2.92
180.0	13.22	10.58	9.00	7.80	6.64	5.52	5.10	4.87	4.27
225.0	11.79	9.65	8.26	7.05	5.89	5.24	4.97	4.55	3.85
270.0	13.83	10.49	9.00	7.66	6.54	5.66	5.24	4.83	3.99
315.0	11.32	9.56	8.17	6.87	5.75	5.20	5.01	4.73	5.71
360.0	10.72	8.49	6.96	5.57	4.36	3.62	3.16	2.92	3.25
C/\u03b3(\u00b0)	90.0								
0.0	2.13								
45.0	2.18								
90.0	2.18								
135.0	2.41								
180.0	3.20								
225.0	2.97								
270.0	3.02								
315.0	3.62								
360.0	2.13								