

ZhongShan HaoXiang Lighting CO.,LTD
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HX-DA613R-40090

LumCAT: HX-DA613R-40090	Luminaire: HX-DA613R
Report No:	Voltage(V): 230.900
Test No:	Current(A): 0.062
LampCAT: 2835 12C5B 40090	Power (W): 7.800
Lamp flux(lm): 876.0	PF: 0.542
Number of Lamps: 1	Ballast type: LS-8-200 SI ECO 8/220-240/200CS
Length(mm): -85	Width(mm): -85
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 506.18
Efficiency(%): 57.78%
Lumens(lm)/Power(W): 64.90
Central intensity(cd): 244.762
Maximum intensity(cd): 245.555
Angle of maximum intensity: C=30.0 γ =2.0
Beam Angle(50%Imax): [H]Left=47.0 Right=42.9
[V]Left=45.5 Right=44.3
Field angle(10%Imax): [H]Left=70.9 Right=67.7
[V]Left=70.2 Right=67.7
Maximum s/h: C0_180=1.19 C90_270=1.16
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 57.78%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 88.736%

Equipment: GMS-1980
Temperature(°C): 25.0

Date: 2023-9-13
Humidity(%): 65.3%

Operator: MinLi Ke
Distance(m): 7.27

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	244.841	.000	.000	.000%	.000%
1.0	244.753	.234	.234	.027%	.027%
2.0	244.555	.702	.937	.080%	.107%
3.0	244.247	1.169	2.106	.133%	.240%
4.0	243.780	1.634	3.739	.186%	.427%
5.0	243.242	2.095	5.834	.239%	.666%
6.0	242.516	2.553	8.387	.291%	.957%
7.0	241.701	3.006	11.393	.343%	1.301%
8.0	240.683	3.452	14.845	.394%	1.695%
9.0	239.648	3.893	18.738	.444%	2.139%
10.0	238.446	4.327	23.064	.494%	2.633%
11.0	237.147	4.752	27.817	.542%	3.175%
12.0	235.662	5.168	32.985	.590%	3.765%
13.0	234.011	5.574	38.559	.636%	4.402%
14.0	232.350	5.969	44.528	.681%	5.083%
15.0	230.470	6.354	50.882	.725%	5.808%
16.0	228.628	6.727	57.609	.768%	6.576%
17.0	226.501	7.088	64.697	.809%	7.385%
18.0	224.453	7.435	72.132	.849%	8.234%
19.0	221.987	7.767	79.899	.887%	9.121%
20.0	219.599	8.082	87.981	.923%	10.044%
21.0	216.842	8.381	96.362	.957%	11.000%
22.0	214.072	8.659	105.021	.989%	11.989%
23.0	211.125	8.922	113.943	1.018%	13.007%
24.0	207.976	9.163	123.106	1.046%	14.053%
25.0	204.646	9.382	132.488	1.071%	15.124%
26.0	201.339	9.583	142.072	1.094%	16.218%
27.0	197.925	9.768	151.840	1.115%	17.333%
28.0	194.146	9.926	161.766	1.133%	18.466%
29.0	190.455	10.062	171.828	1.149%	19.615%
30.0	186.544	10.179	182.007	1.162%	20.777%
31.0	182.823	10.279	192.286	1.173%	21.950%
32.0	178.744	10.358	202.645	1.182%	23.133%
33.0	174.745	10.414	213.059	1.189%	24.322%
34.0	170.574	10.450	223.509	1.193%	25.515%
35.0	166.390	10.465	233.974	1.195%	26.709%
36.0	162.210	10.463	244.437	1.194%	27.904%
37.0	157.867	10.439	254.876	1.192%	29.095%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	153.749	10.401	265.277	1.187%	30.283%
39.0	149.151	10.339	275.616	1.180%	31.463%
40.0	144.808	10.252	285.868	1.170%	32.633%
41.0	140.126	10.146	296.014	1.158%	33.792%
42.0	135.762	10.023	306.038	1.144%	34.936%
43.0	131.022	9.882	315.920	1.128%	36.064%
44.0	126.728	9.728	325.649	1.111%	37.174%
45.0	121.985	9.558	335.207	1.091%	38.266%
46.0	117.655	9.372	344.579	1.070%	39.335%
47.0	113.101	9.178	353.756	1.048%	40.383%
48.0	108.635	8.964	362.720	1.023%	41.406%
49.0	104.160	8.739	371.459	.998%	42.404%
50.0	99.531	8.493	379.951	.969%	43.373%
51.0	95.184	8.238	388.189	.940%	44.314%
52.0	90.603	7.972	396.162	.910%	45.224%
53.0	86.168	7.690	403.851	.878%	46.102%
54.0	81.552	7.392	411.243	.844%	46.946%
55.0	77.319	7.092	418.335	.810%	47.755%
56.0	73.021	6.793	425.129	.776%	48.531%
57.0	68.837	6.486	431.615	.740%	49.271%
58.0	64.551	6.168	437.783	.704%	49.975%
59.0	60.569	5.849	443.632	.668%	50.643%
60.0	56.513	5.531	449.164	.631%	51.274%
61.0	52.470	5.201	454.365	.594%	51.868%
62.0	48.700	4.875	459.240	.556%	52.425%
63.0	44.762	4.546	463.785	.519%	52.944%
64.0	41.238	4.220	468.005	.482%	53.425%
65.0	37.534	3.898	471.904	.445%	53.870%
66.0	34.227	3.580	475.484	.409%	54.279%
67.0	30.848	3.272	478.756	.374%	54.653%
68.0	27.853	2.974	481.730	.339%	54.992%
69.0	24.898	2.691	484.421	.307%	55.299%
70.0	22.273	2.423	486.844	.277%	55.576%
71.0	19.952	2.182	489.026	.249%	55.825%
72.0	17.869	1.967	490.993	.224%	56.049%
73.0	16.054	1.774	492.766	.203%	56.252%
74.0	14.451	1.604	494.370	.183%	56.435%
75.0	13.222	1.462	495.832	.167%	56.602%

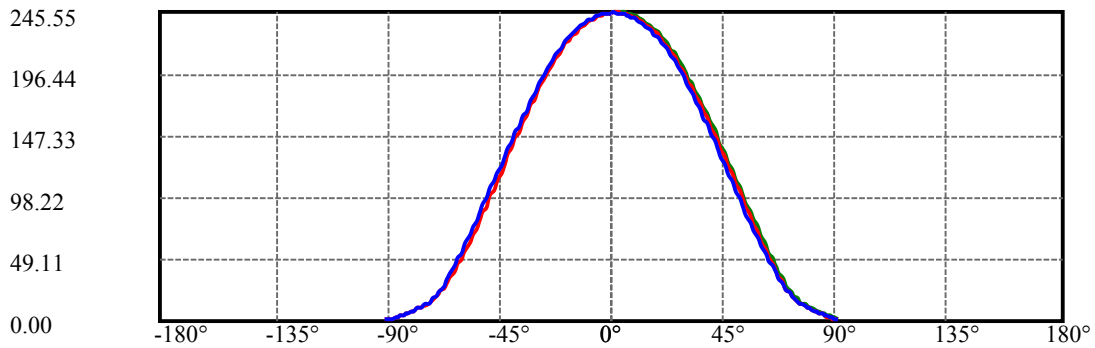
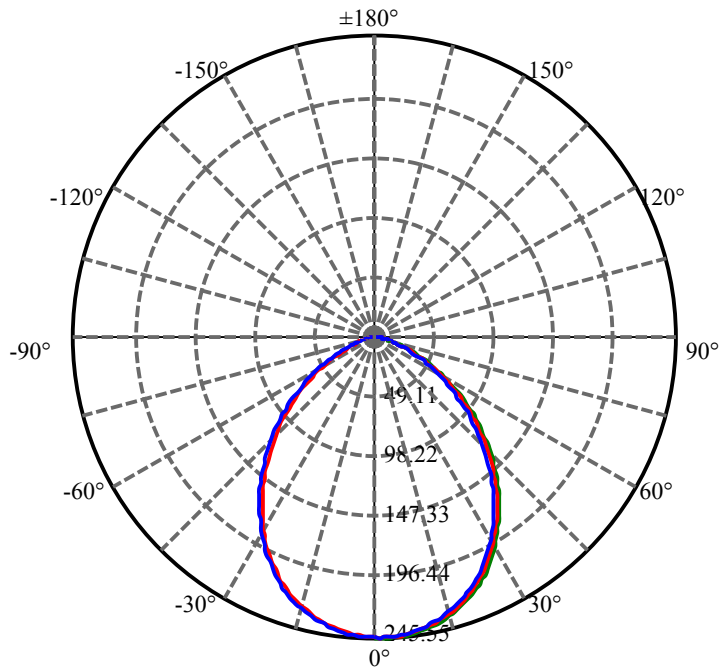
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.108	1.345	497.177	.153%	56.755%
77.0	11.130	1.239	498.416	.141%	56.897%
78.0	10.113	1.137	499.553	.130%	57.027%
79.0	9.201	1.038	500.591	.118%	57.145%
80.0	8.245	.941	501.531	.107%	57.252%
81.0	7.373	.845	502.376	.096%	57.349%
82.0	6.549	.755	503.131	.086%	57.435%
83.0	5.699	.666	503.797	.076%	57.511%
84.0	4.898	.577	504.374	.066%	57.577%
85.0	4.105	.491	504.865	.056%	57.633%
86.0	3.365	.408	505.274	.047%	57.680%
87.0	2.673	.330	505.604	.038%	57.717%
88.0	1.973	.255	505.859	.029%	57.746%
89.0	1.423	.186	506.045	.021%	57.768%
90.0	1.070	.137	506.181	.016%	57.783%

ZONAL LUMEN SUMMARY

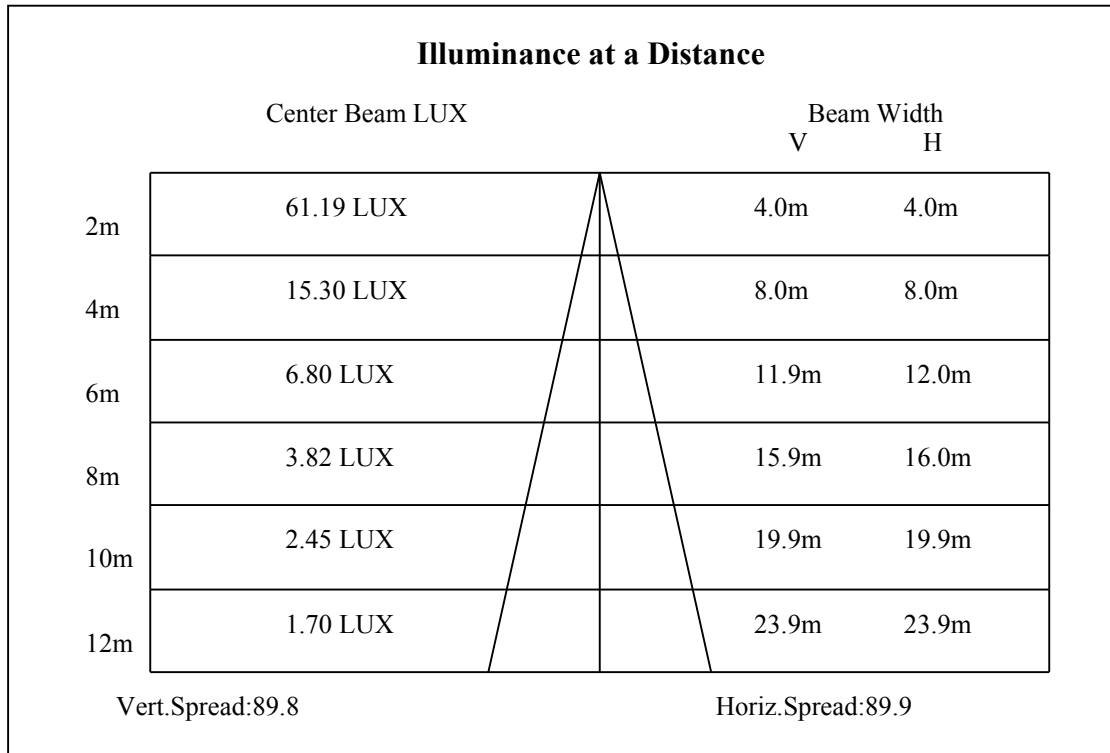
Zone	Lumens	%Lamp	%Fixt
0-30	182.01	20.78%	35.96%
0-40	285.87	32.63%	56.48%
0-60	449.16	51.27%	88.74%
0-90	506.04	57.77%	99.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-180	506.18	57.78%	100.00%

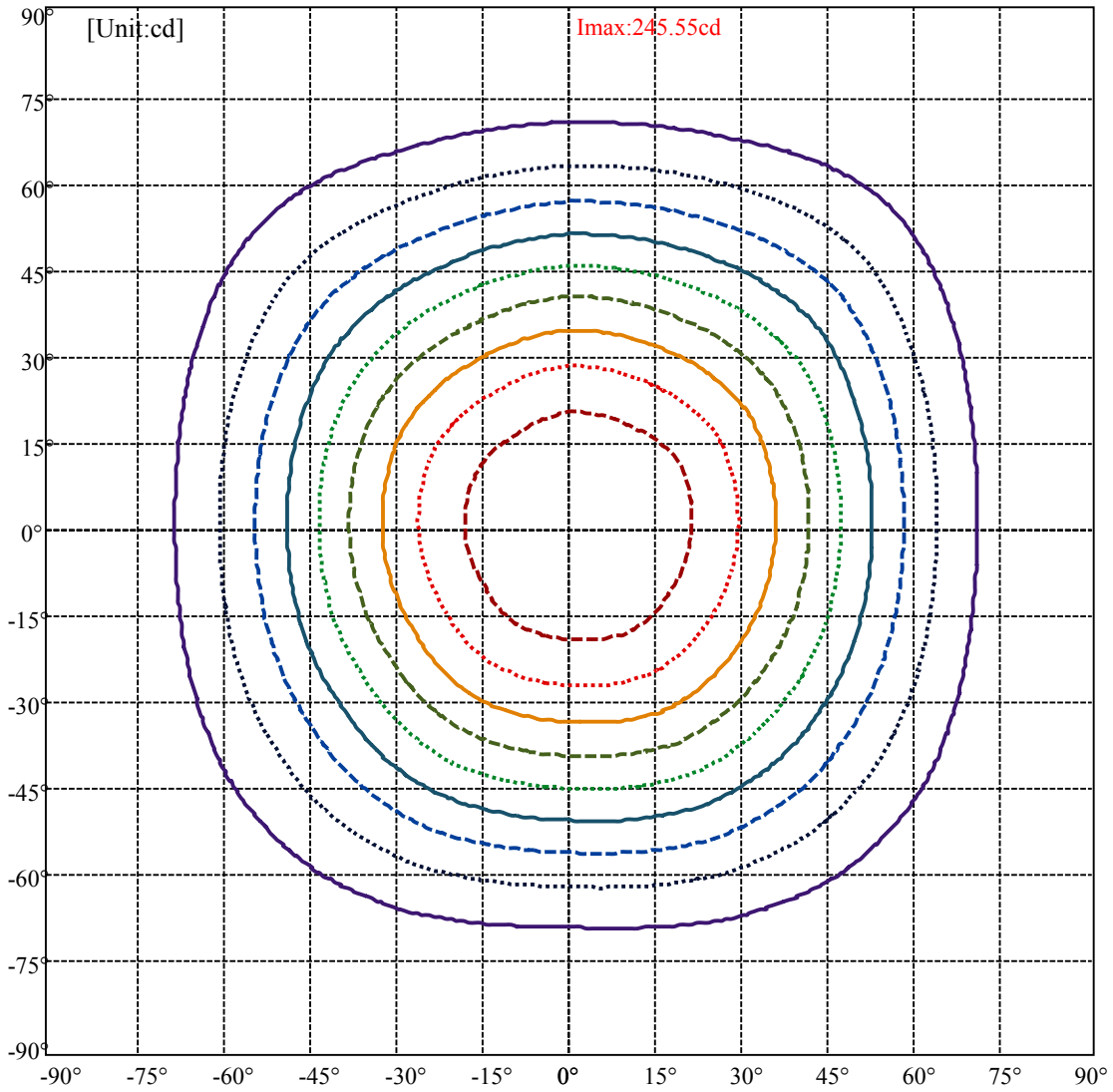
ZONAL LUMEN SUMMARY

0-10	23.06
10-20	64.92
20-30	94.03
30-40	103.86
40-50	94.08
50-60	69.21
60-70	37.68
70-80	14.69
80-90	4.51
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

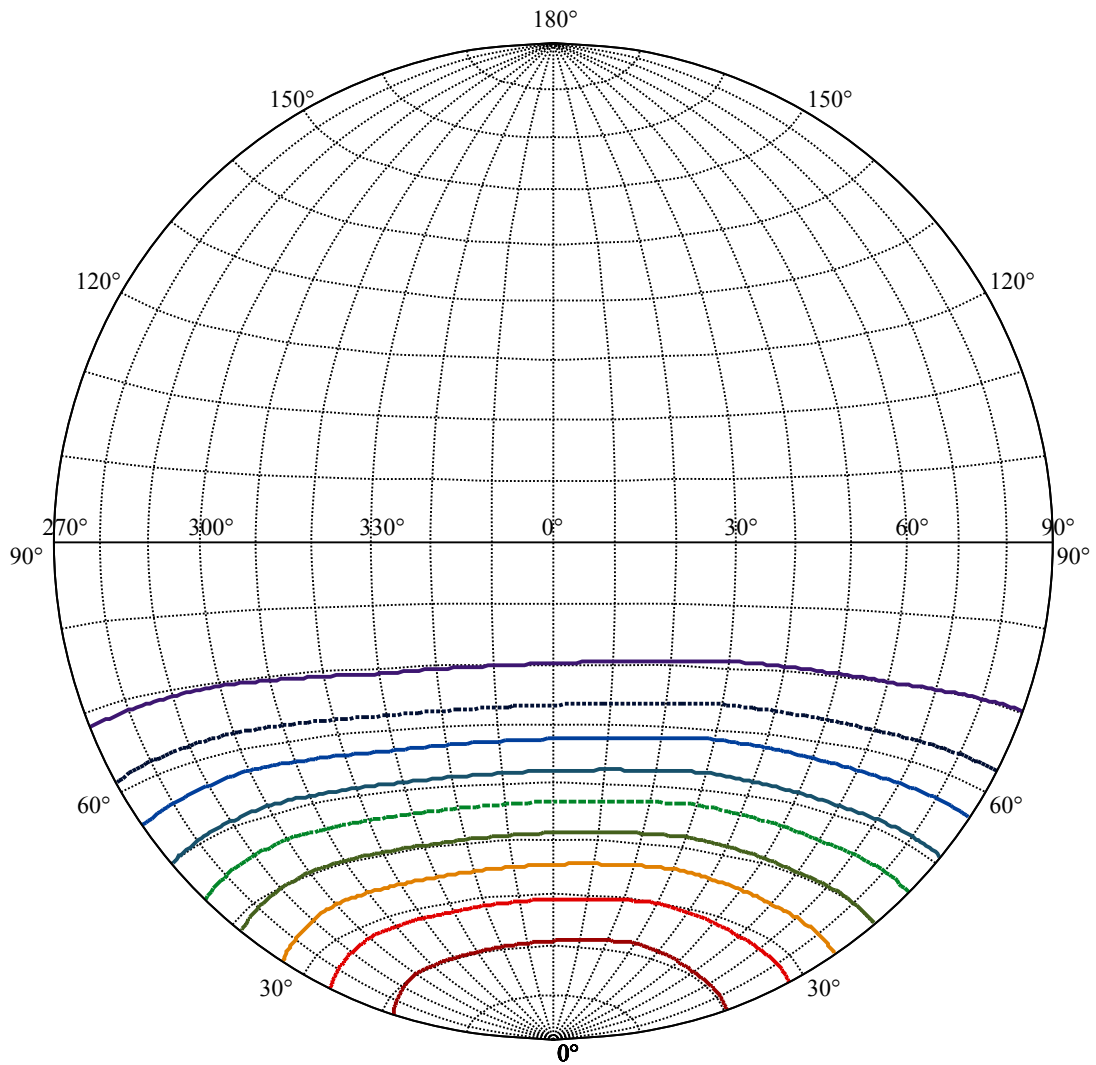


C30(Max): —
C0/C180: —
C90/C270: —





- (10%Imax) 24.5479 ————
- (20%Imax) 49.0958 ······
- (30%Imax) 73.6437 - - - - -
- (40%Imax) 98.1916 ————
- (50%Imax) 122.739 ······
- (60%Imax) 147.287 - - - - -
- (70%Imax) 171.835 ————
- (80%Imax) 196.383 ······
- (90%Imax) 220.931 - - - - -

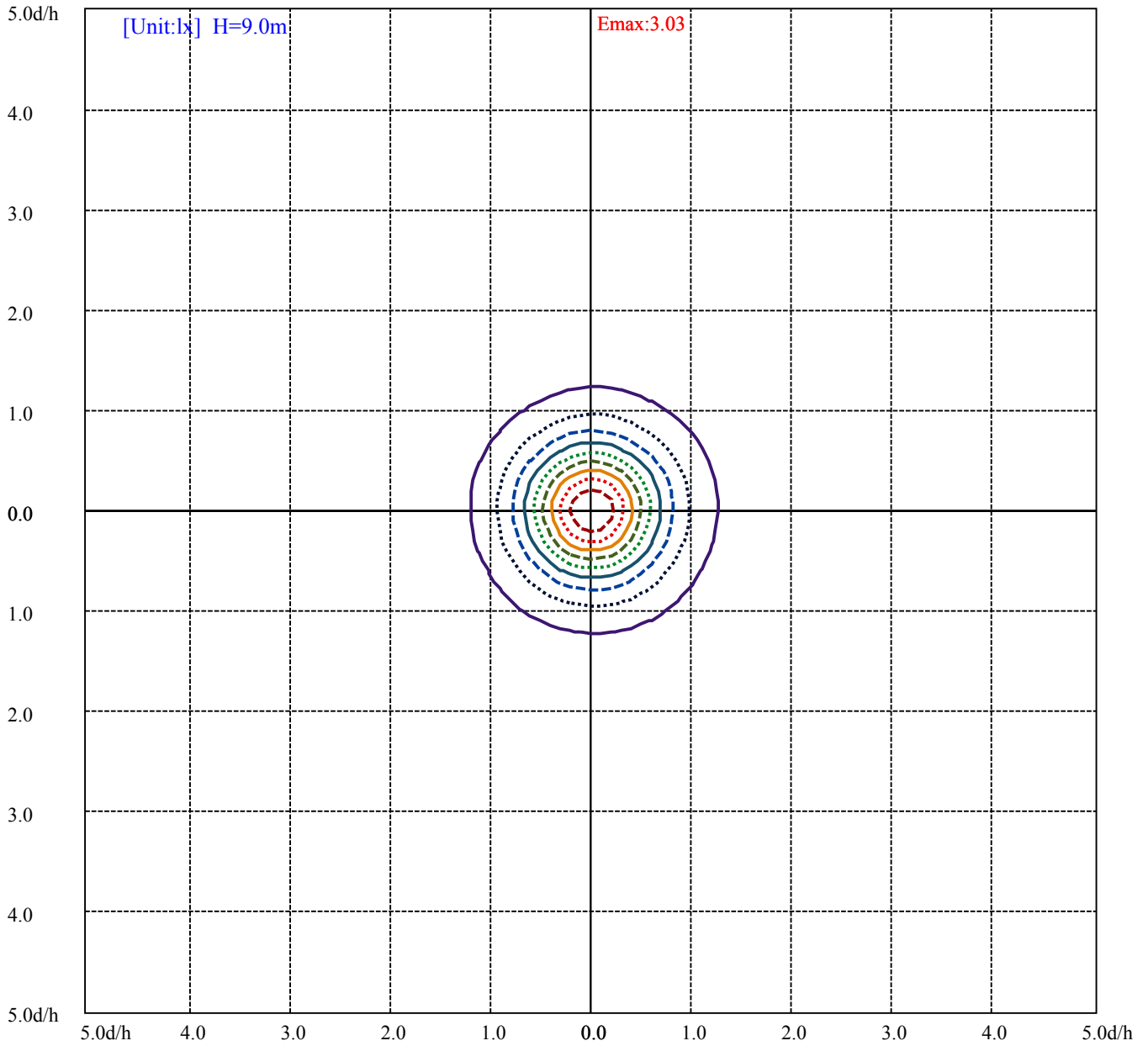


House

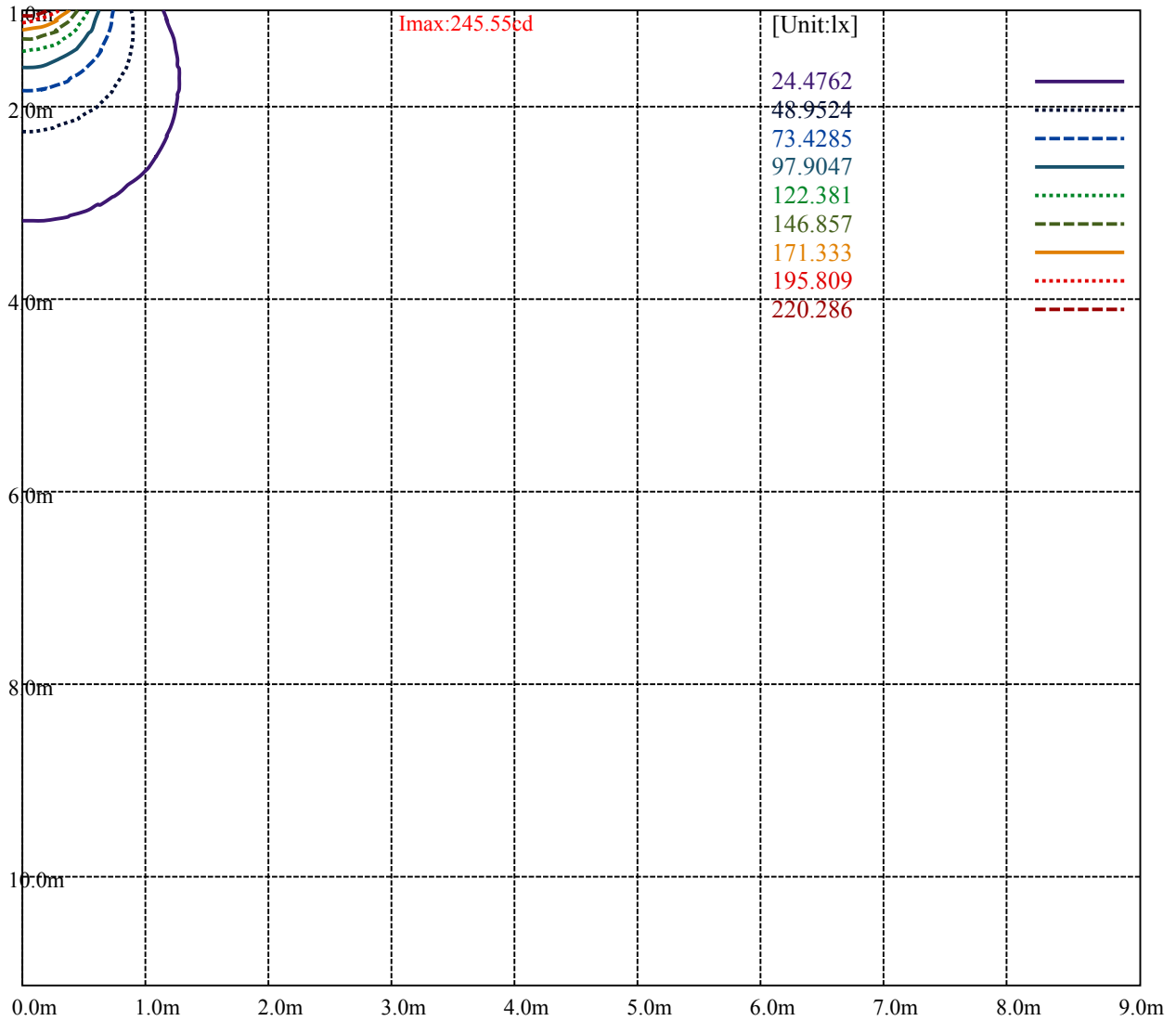
Road

Imax:245.55cd

(10%Imax) 24.5555	—
(20%Imax) 49.1109	·····
(30%Imax) 73.6664	- - - - -
(40%Imax) 98.2218	—
(50%Imax) 122.777	·····
(60%Imax) 147.333	- - - - -
(70%Imax) 171.888	—
(80%Imax) 196.444	·····
(90%Imax) 220.999	- - - - -



- (10%Emax) 0.3025667
- (20%Emax) 0.6051334
- (30%Emax) 0.9076999
- (40%Emax) 1.210267
- (50%Emax) 1.512827
- (60%Emax) 1.815395
- (70%Emax) 2.117963
- (80%Emax) 2.420531
- (90%Emax) 2.723099

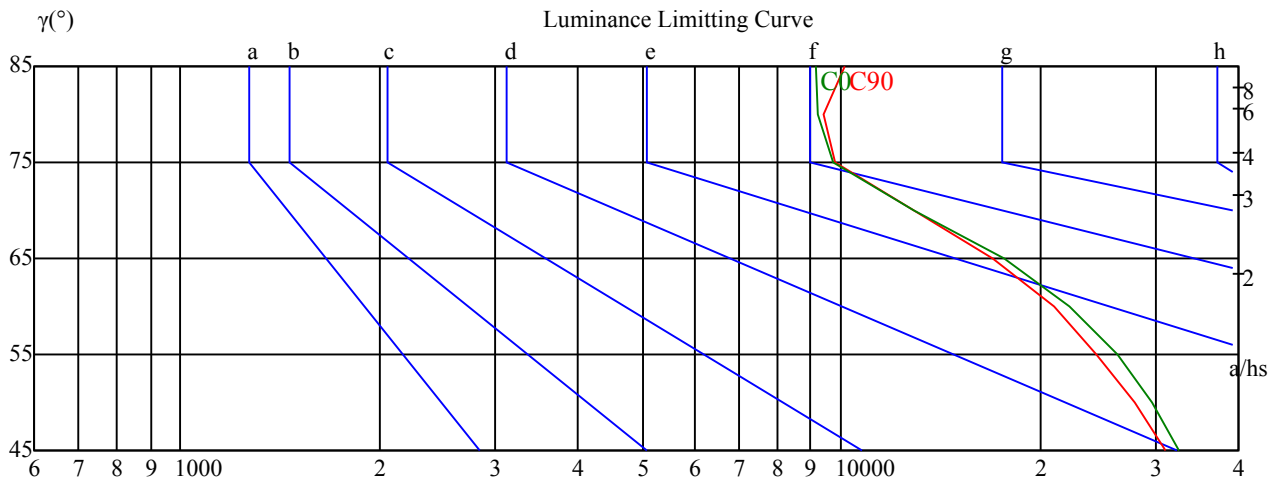


Luminance Table

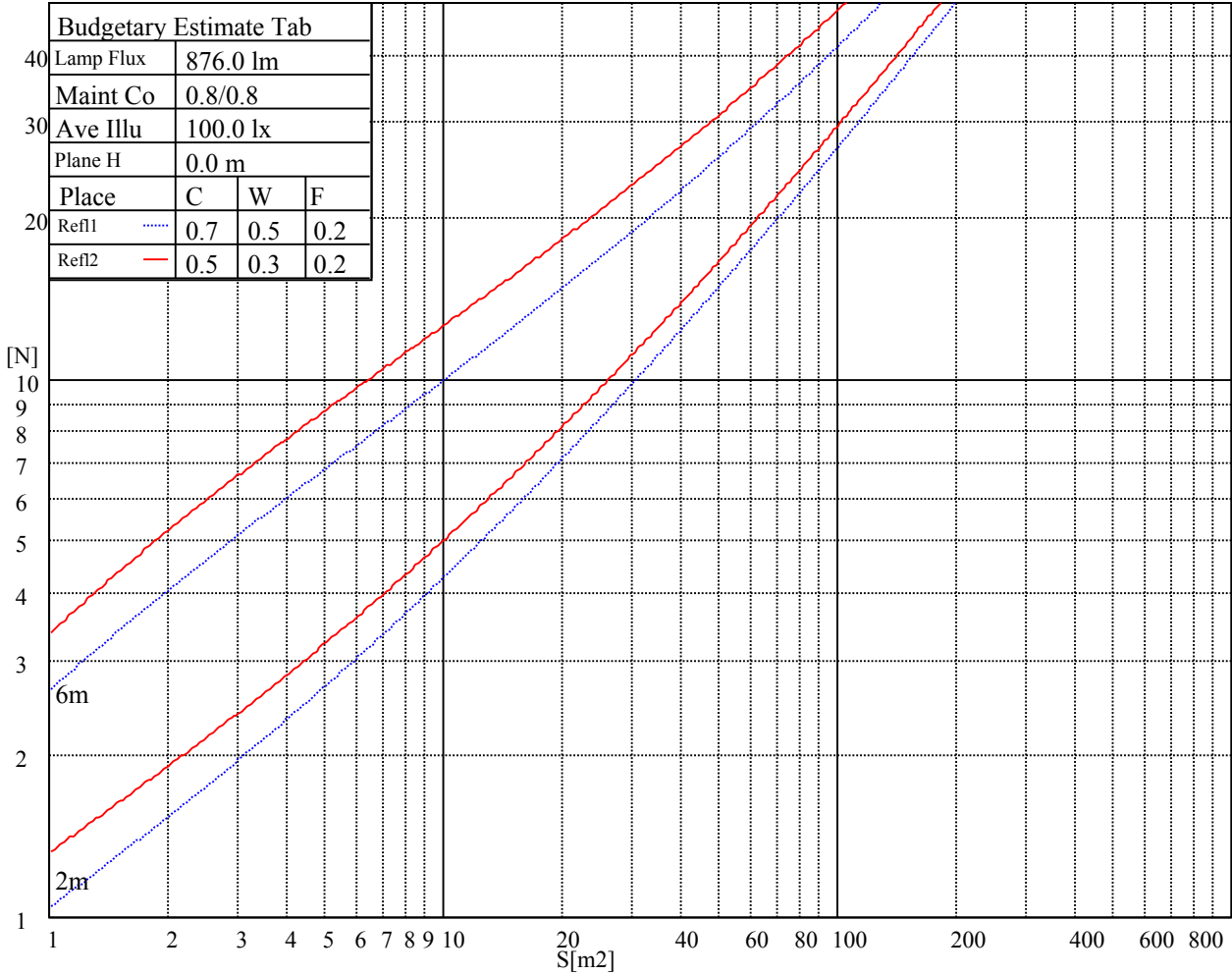
γ	45	50	55	60	65	70	75	80	85
C0	32601	29531	26144	22149	17675	12881	9752	9226	9191
C45	0	0	0	0	0	0	0	0	0
C90	31020	27908	24439	21013	16992	12908	9788	9440	10152

Glare Table

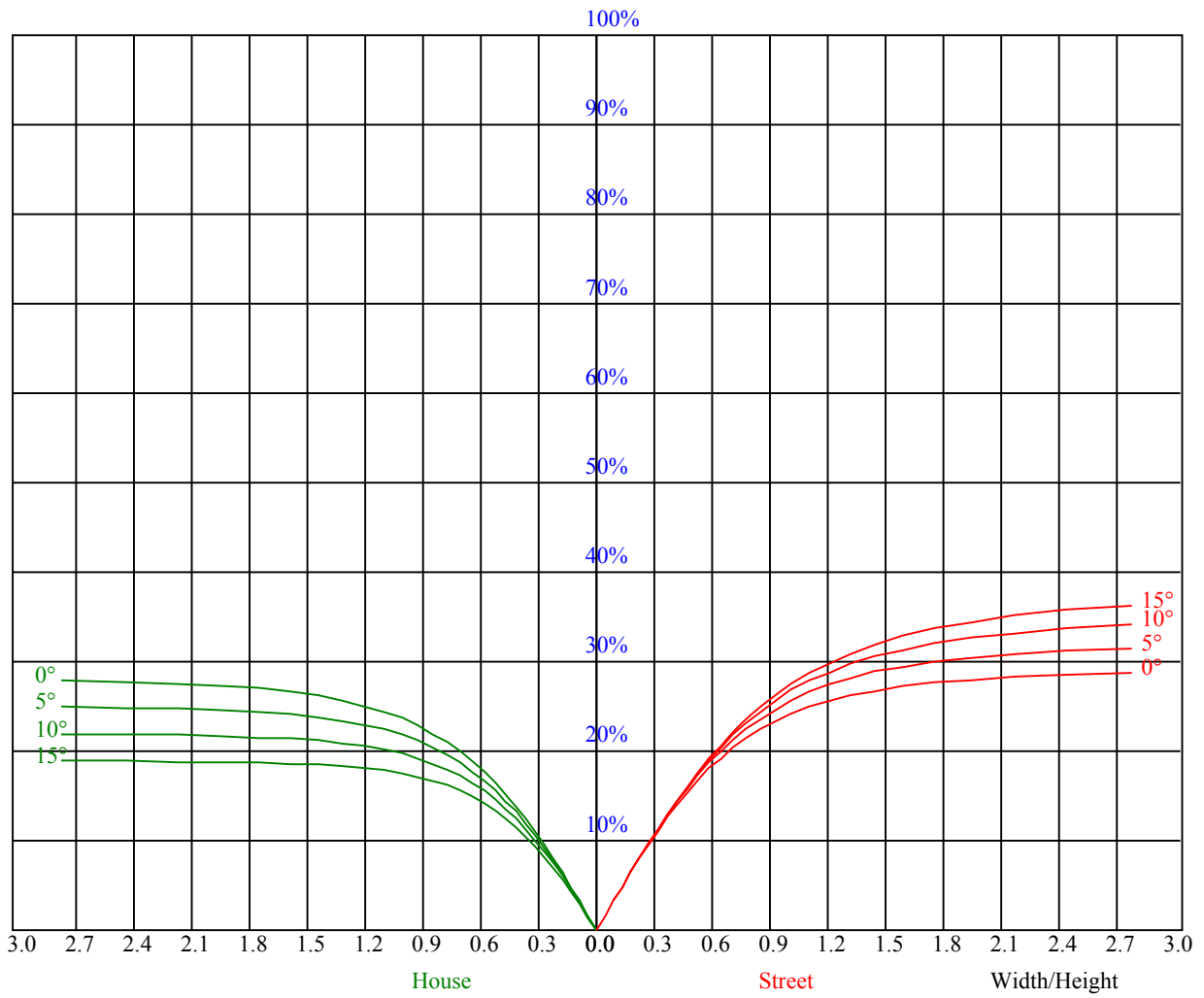
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



Illuminatin 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	24.4	25.6	24.6	25.8	26.1	23.9	25.2	24.2	25.4	25.6
	3H	25.0	26.1	25.4	26.4	26.7	24.6	25.7	24.9	26.0	26.3
	4H	25.1	26.0	25.4	26.3	26.6	24.7	25.6	25.0	25.9	26.2
	6H	25.2	26.2	25.6	26.5	26.8	24.9	25.8	25.2	26.1	26.4
	8H	25.3	26.3	25.7	26.6	26.9	25.0	25.9	25.3	26.2	26.5
	12H	25.2	25.9	25.6	26.3	26.7	24.9	25.6	25.3	25.9	26.3
4H	2H	24.6	25.5	24.9	25.8	26.1	24.2	25.1	24.6	25.5	25.8
	3H	25.4	26.1	25.8	26.5	26.9	25.0	25.7	25.4	26.1	26.5
	4H	25.7	26.4	26.1	26.8	27.2	25.3	26.0	25.7	26.4	26.8
	6H	26.0	26.6	26.4	27.0	27.4	25.6	26.3	26.0	26.7	27.1
	8H	25.9	26.3	26.4	26.8	27.3	25.6	25.9	26.1	26.4	26.9
	12H	26.0	26.4	26.5	26.9	27.4	25.7	26.1	26.2	26.5	27.0
8H	4H	25.7	26.1	26.2	26.6	27.1	25.3	25.7	25.8	26.2	26.7
	6H	26.1	26.4	26.6	26.9	27.4	25.7	26.1	26.2	26.6	27.1
	8H	26.2	26.6	26.7	27.1	27.6	25.9	26.3	26.4	26.7	27.3
	12H	26.4	26.8	26.9	27.3	27.8	26.1	26.5	26.6	26.9	27.4
12H	4H	25.7	26.1	26.2	26.6	27.1	25.4	25.8	25.9	26.2	26.7
	6H	26.1	26.5	26.6	27.0	27.5	25.8	26.1	26.3	26.6	27.1
	8H	26.3	26.7	26.8	27.2	27.7	26.0	26.4	26.5	26.8	27.3
Variation with the observer position at spacings:											
S = 1.0H		0.5/-0.6					0.4/-0.6				
S = 1.5H		0.7/-1.4					0.7/-1.4				
S = 2.0H		2.0/-2.1					2.1/-2.0				
Standard tables:		BK3					BK3				
Uncorrected UGR		6.7					6.4				
According 1000lm											



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 RHOF=20 CU															
0	0.69	0.69	0.69	0.67	0.67	0.67	0.64	0.64	0.64	0.61	0.61	0.61	0.59	0.59	0.59	0.58
1	0.62	0.59	0.58	0.60	0.58	0.57	0.58	0.56	0.55	0.56	0.54	0.53	0.54	0.53	0.52	0.50
2	0.55	0.51	0.49	0.54	0.51	0.48	0.52	0.49	0.47	0.50	0.48	0.46	0.48	0.46	0.45	0.44
3	0.49	0.45	0.41	0.48	0.44	0.41	0.46	0.43	0.40	0.45	0.42	0.40	0.43	0.41	0.39	0.38
4	0.44	0.39	0.36	0.43	0.39	0.36	0.42	0.38	0.35	0.41	0.37	0.35	0.39	0.37	0.34	0.33
5	0.40	0.35	0.32	0.39	0.35	0.31	0.38	0.34	0.31	0.37	0.33	0.31	0.36	0.33	0.30	0.29
6	0.36	0.31	0.28	0.36	0.31	0.28	0.35	0.31	0.28	0.34	0.30	0.27	0.33	0.30	0.27	0.26
7	0.33	0.28	0.25	0.33	0.28	0.25	0.32	0.28	0.25	0.31	0.27	0.25	0.30	0.27	0.24	0.23
8	0.30	0.26	0.23	0.30	0.26	0.22	0.29	0.25	0.22	0.28	0.25	0.22	0.28	0.25	0.22	0.21
9	0.28	0.23	0.20	0.28	0.23	0.20	0.27	0.23	0.20	0.26	0.23	0.20	0.26	0.23	0.20	0.19
10	0.26	0.22	0.19	0.26	0.21	0.19	0.25	0.21	0.19	0.25	0.21	0.19	0.24	0.21	0.18	0.17



Intensity data(cd)

C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	244.76	244.97	244.92	244.81	244.55	244.18	243.70	243.07	242.28
30.0	245.03	245.34	245.55	245.55	245.34	245.13	244.71	244.23	243.60
60.0	245.13	245.18	245.13	244.97	244.60	244.23	243.55	242.86	242.07
90.0	244.76	244.81	244.60	244.39	244.07	243.65	243.02	242.38	241.48
120.0	244.60	244.29	243.92	243.39	242.81	242.22	241.38	240.48	239.42
150.0	244.76	244.50	244.13	243.76	243.18	242.49	241.59	240.75	239.58
180.0	244.76	244.39	243.97	243.49	242.86	242.17	241.17	240.16	238.90
210.0	245.03	244.66	244.18	243.60	242.81	241.85	240.90	239.69	238.26
240.0	245.13	244.92	244.60	244.07	243.55	242.86	241.91	241.01	239.79
270.0	244.76	244.55	244.34	243.97	243.44	242.86	242.12	241.06	239.90
300.0	244.60	244.66	244.60	244.44	244.07	243.60	242.96	242.28	241.43
330.0	244.76	244.76	244.71	244.50	244.07	243.65	243.18	242.44	241.48
360.0	244.76	244.97	244.92	244.81	244.55	244.18	243.70	243.07	242.28
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	241.43	240.53	239.42	238.16	236.68	235.20	233.50	231.87	229.96
30.0	242.81	241.96	240.96	239.90	238.47	236.99	235.41	233.82	231.97
60.0	241.11	240.11	238.84	237.42	236.04	234.61	232.71	230.91	228.91
90.0	240.48	239.37	238.16	236.83	235.20	233.50	231.76	230.07	227.95
120.0	238.31	237.05	235.57	233.87	232.24	230.60	228.69	226.69	224.52
150.0	238.37	237.15	235.62	234.19	232.39	230.49	228.59	226.74	224.47
180.0	237.63	236.09	234.61	232.87	231.18	229.22	227.37	225.26	222.88
210.0	236.99	235.41	233.87	232.08	230.07	228.22	226.00	223.83	221.40
240.0	238.68	237.42	236.04	234.35	232.45	230.70	228.59	226.63	224.41
270.0	238.79	237.42	236.15	234.51	232.76	231.07	229.06	227.16	225.05
300.0	240.59	239.42	238.26	236.94	235.41	233.87	232.02	230.28	228.22
330.0	240.59	239.42	238.26	236.83	235.25	233.72	231.92	230.28	228.27
360.0	241.43	240.53	239.42	238.16	236.68	235.20	233.50	231.87	229.96
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	228.11	225.89	223.57	221.14	218.71	216.17	213.21	209.98	207.02
30.0	230.28	228.11	226.21	223.83	221.24	218.76	215.80	213.16	209.98
60.0	227.06	224.73	222.62	219.97	217.44	214.58	211.46	208.08	205.07
90.0	226.10	223.83	221.72	219.23	216.38	213.79	210.57	207.55	204.12
120.0	222.46	219.92	217.60	214.79	212.05	208.72	205.23	201.74	198.52
150.0	222.35	219.97	217.65	214.85	211.78	208.87	205.60	202.43	198.83
180.0	220.66	218.02	215.48	212.47	209.19	205.70	202.59	198.99	195.71
210.0	219.08	216.17	213.16	209.83	206.81	203.43	200.26	196.56	193.02
240.0	222.04	219.29	216.75	213.84	211.04	208.08	204.65	201.00	197.19
270.0	222.88	220.08	217.23	214.32	211.52	208.24	205.18	201.69	198.46
300.0	226.05	223.73	221.56	218.86	216.33	213.68	210.51	207.13	203.70
330.0	226.37	224.10	221.67	218.97	216.38	213.47	210.67	207.45	204.44
360.0	228.11	225.89	223.57	221.14	218.71	216.17	213.21	209.98	207.02
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	203.59	200.05	196.82	193.07	189.69	185.88	181.97	178.33	174.04
30.0	206.97	203.43	199.78	196.08	192.65	188.79	185.20	181.02	176.79
60.0	201.90	198.15	194.18	190.69	186.62	182.45	178.70	174.41	170.61
90.0	200.89	197.25	193.39	189.37	185.78	181.66	177.85	173.52	169.02
120.0	195.13	191.27	187.15	183.51	179.22	174.94	170.98	166.43	162.47
150.0	195.40	191.54	187.58	183.51	179.75	175.42	171.61	167.12	162.68
180.0	192.28	188.31	184.14	179.91	176.11	171.82	167.81	163.26	159.30
210.0	188.95	184.88	181.18	176.95	173.09	168.81	164.43	160.51	156.02
240.0	193.76	189.74	186.20	182.18	178.11	174.41	170.08	166.17	161.62
270.0	194.71	190.85	187.26	183.14	179.59	175.37	171.14	166.91	163.05
300.0	200.52	196.93	193.71	189.90	186.47	182.55	178.48	174.78	170.40
330.0	201.00	197.35	194.08	190.22	186.78	182.82	178.70	174.41	170.66
360.0	203.59	200.05	196.82	193.07	189.69	185.88	181.97	178.33	174.04

Intensity data(cd)

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	170.19	165.80	161.84	157.50	152.96	148.36	144.34	139.69	135.51
30.0	172.99	168.71	164.80	160.51	156.55	151.95	147.25	142.54	138.47
60.0	166.17	161.73	157.82	153.27	149.15	144.39	140.11	135.36	130.65
90.0	165.11	160.78	156.71	152.00	147.83	143.13	138.32	133.45	129.23
120.0	157.92	153.43	149.31	144.61	140.32	135.36	131.02	126.11	121.30
150.0	158.72	154.07	149.89	145.08	140.43	136.10	131.29	126.32	121.93
180.0	154.70	150.16	146.03	141.28	136.99	132.03	127.11	122.30	117.97
210.0	151.37	147.20	142.97	138.26	133.56	128.70	124.47	119.71	115.43
240.0	157.71	153.22	148.68	143.92	139.85	135.14	131.13	126.58	122.46
270.0	158.82	154.81	150.74	146.19	141.59	136.99	132.93	128.33	124.20
300.0	166.49	162.10	157.71	153.22	149.15	144.71	140.69	136.10	131.97
330.0	166.33	162.42	158.51	153.96	149.31	144.66	140.48	135.78	131.60
360.0	170.19	165.80	161.84	157.50	152.96	148.36	144.34	139.69	135.51
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	130.81	126.00	121.67	116.80	112.47	107.71	103.43	98.78	93.97
30.0	133.93	129.81	125.16	120.98	116.22	111.41	107.24	102.64	98.31
60.0	125.95	121.77	117.12	113.00	108.40	104.38	99.68	94.87	90.64
90.0	124.47	120.24	115.96	111.26	106.55	101.79	97.67	92.97	88.79
120.0	116.49	112.21	107.45	103.33	98.62	93.87	89.69	84.83	80.65
150.0	117.23	112.95	108.19	104.01	99.15	94.92	90.22	85.67	81.45
180.0	113.11	108.88	104.23	100.05	95.40	90.64	86.47	81.71	77.48
210.0	110.62	106.55	101.85	97.25	93.07	88.37	84.30	79.76	75.26
240.0	117.76	113.05	108.93	104.28	100.10	95.45	90.85	86.84	82.50
270.0	119.50	115.38	110.67	106.13	101.95	97.36	93.23	88.69	83.98
300.0	127.22	122.51	118.23	113.53	109.30	104.60	99.73	95.61	90.91
330.0	126.74	122.51	117.76	113.00	108.67	103.86	99.68	94.87	90.06
360.0	130.81	126.00	121.67	116.80	112.47	107.71	103.43	98.78	93.97
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	89.27	85.09	80.39	76.21	71.51	67.39	62.84	58.24	54.33
30.0	93.55	88.79	84.72	80.13	76.06	71.46	67.44	62.84	58.35
60.0	86.04	82.03	77.64	73.20	68.81	65.01	60.73	56.92	53.22
90.0	84.09	79.54	75.63	71.30	67.49	63.32	59.62	55.50	51.58
120.0	76.06	72.04	67.70	63.32	59.25	55.65	51.80	48.36	44.92
150.0	76.80	72.20	68.39	64.16	59.88	56.24	52.17	48.68	44.82
180.0	72.99	68.50	64.69	60.41	56.29	52.80	48.99	45.56	41.75
210.0	70.82	67.02	62.79	59.09	54.97	51.48	47.62	43.82	40.59
240.0	78.06	74.15	69.71	65.85	61.63	57.40	53.75	49.73	46.14
270.0	79.33	75.26	70.72	66.75	62.31	58.40	54.07	49.89	46.19
300.0	86.31	82.13	77.48	73.36	68.71	64.06	60.04	55.50	51.69
330.0	85.30	81.08	76.37	72.25	67.70	63.63	59.09	54.60	50.79
360.0	89.27	85.09	80.39	76.21	71.51	67.39	62.84	58.24	54.33
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	50.10	46.40	42.39	38.32	34.94	31.29	27.80	25.00	22.46
30.0	54.02	50.26	45.98	42.28	38.42	35.04	31.45	27.96	25.11
60.0	49.15	45.14	41.17	37.74	34.04	30.92	27.59	24.63	22.15
90.0	47.78	44.40	40.75	37.63	34.14	31.18	27.96	25.05	22.62
120.0	41.17	37.63	34.35	31.45	28.38	25.85	23.10	20.72	18.76
150.0	41.54	37.84	34.41	31.39	28.43	25.85	23.20	20.77	18.82
180.0	38.16	35.09	31.87	29.07	26.16	23.73	21.19	19.08	17.07
210.0	37.05	34.04	30.81	28.06	25.11	22.36	19.98	17.97	16.07
240.0	42.18	38.90	35.31	31.87	28.54	25.74	23.15	20.51	18.23
270.0	42.07	38.58	34.78	31.55	28.17	25.11	22.20	19.98	17.71
300.0	47.41	43.76	39.85	36.10	32.29	29.12	26.22	23.20	20.56
330.0	46.51	42.81	38.74	35.25	31.55	28.06	24.95	22.41	19.87
360.0	50.10	46.40	42.39	38.32	34.94	31.29	27.80	25.00	22.46

Intensity data(cd)

C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	19.93	17.65	15.70	14.32	13.21	12.21	11.15	10.20	9.09
30.0	22.25	19.93	17.71	15.70	14.16	13.11	11.94	11.05	9.94
60.0	19.61	17.60	15.64	14.16	12.95	11.84	10.78	9.83	8.93
90.0	20.08	18.02	16.01	14.38	13.11	12.10	11.05	10.15	9.30
120.0	16.81	15.22	13.58	12.47	11.52	10.68	9.67	8.83	7.93
150.0	16.91	15.27	13.95	12.79	11.79	10.78	9.94	9.14	8.25
180.0	15.54	14.11	12.74	11.79	10.94	9.99	9.04	8.19	7.35
210.0	14.53	13.27	12.21	11.26	10.25	9.35	8.46	7.61	6.77
240.0	16.44	14.75	13.42	12.47	11.42	10.46	9.51	8.51	7.56
270.0	15.96	14.43	13.27	12.26	11.15	10.25	9.20	8.30	7.29
300.0	18.50	16.49	14.80	13.69	12.58	11.57	10.52	9.46	8.40
330.0	17.86	15.91	14.38	13.37	12.21	11.20	10.09	9.14	8.14
360.0	19.93	17.65	15.70	14.32	13.21	12.21	11.15	10.20	9.09
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.09	7.19	6.29	5.34	4.55	3.81	3.12	2.27	1.64
30.0	9.09	8.14	7.19	6.34	5.50	4.65	3.91	3.07	2.43
60.0	8.03	7.19	6.45	5.55	4.81	3.96	3.33	2.64	1.90
90.0	8.35	7.51	6.61	5.81	5.02	4.23	3.54	2.85	2.11
120.0	7.14	6.45	5.60	4.92	4.12	3.38	2.75	2.06	1.48
150.0	7.35	6.61	5.81	5.13	4.33	3.59	2.91	2.22	1.59
180.0	6.61	5.87	5.07	4.33	3.59	2.91	2.22	1.64	0.95
210.0	5.87	5.13	4.33	3.65	2.85	2.22	1.53	0.90	0.90
240.0	6.77	5.87	4.97	4.23	3.49	2.75	2.06	1.37	0.95
270.0	6.45	5.66	4.76	4.02	3.17	2.54	1.80	1.16	0.95
300.0	7.51	6.66	5.81	4.86	4.07	3.28	2.59	1.85	1.22
330.0	7.24	6.34	5.50	4.60	3.75	3.07	2.33	1.64	0.95
360.0	8.09	7.19	6.29	5.34	4.55	3.81	3.12	2.27	1.64
C/ γ (°)	90.0								
0.0	0.95								
30.0	1.69								
60.0	1.59								
90.0	1.48								
120.0	1.06								
150.0	0.85								
180.0	0.79								
210.0	0.85								
240.0	0.85								
270.0	0.90								
300.0	0.95								
330.0	0.90								
360.0	0.95								