

ZhongShan HaoXiang Lighting CO.,LTD
Http://www.diluce.cc
Email:haoxiang88@vip.sina.com
Tel:+86-760-22253325 Fax:+86-760-22287069
Address:12 Wanfu Road Xinglong industrial area,Jiu Zhou ji,Xiaolan town,Zhongshan City,China.

HX-DA613R-30090

LumCAT: HX-DA613R-30090	Luminaire: HX-DA613R
Report No:	Voltage(V): 230.500
Test No:	Current(A): 0.062
LampCAT: 2835 12C5B 30090	Power (W): 7.900
Lamp flux(lm): 895.0	PF: 0.545
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): 526.33
Efficiency(%): 58.81%
Lumens(lm)/Power(W): 66.62
Central intensity(cd): 254.487
Maximum intensity(cd): 255.755
Angle of maximum intensity: C=30.0 γ =0.0
Beam Angle(50%Imax): [H]Left=45.6 Right=44.4
[V]Left=44.6 Right=45.3
Field angle(10%Imax): [H]Left=70.5 Right=67.8
[V]Left=67.9 Right=70.2
Maximum s/h: C0_180=1.14 C90_270=1.18
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 58.81%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 88.751%

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	254.989	.000	.000	.000%	.000%
1.0	254.914	.244	.244	.027%	.027%
2.0	254.689	.731	.975	.082%	.109%
3.0	254.341	1.217	2.193	.136%	.245%
4.0	253.897	1.701	3.894	.190%	.435%
5.0	253.298	2.182	6.076	.244%	.679%
6.0	252.549	2.658	8.734	.297%	.976%
7.0	251.699	3.130	11.864	.350%	1.326%
8.0	250.637	3.595	15.459	.402%	1.727%
9.0	249.514	4.053	19.513	.453%	2.180%
10.0	248.277	4.505	24.018	.503%	2.684%
11.0	246.872	4.948	28.965	.553%	3.236%
12.0	245.339	5.381	34.346	.601%	3.838%
13.0	243.670	5.803	40.149	.648%	4.486%
14.0	241.947	6.216	46.365	.695%	5.180%
15.0	240.058	6.617	52.982	.739%	5.920%
16.0	238.063	7.006	59.988	.783%	6.703%
17.0	235.874	7.380	67.368	.825%	7.527%
18.0	233.663	7.742	75.110	.865%	8.392%
19.0	231.205	8.088	83.198	.904%	9.296%
20.0	228.642	8.416	91.614	.940%	10.236%
21.0	225.726	8.725	100.339	.975%	11.211%
22.0	222.801	9.013	109.352	1.007%	12.218%
23.0	219.714	9.285	118.638	1.037%	13.256%
24.0	216.367	9.534	128.172	1.065%	14.321%
25.0	212.905	9.761	137.932	1.091%	15.411%
26.0	209.302	9.966	147.899	1.114%	16.525%
27.0	205.893	10.158	158.057	1.135%	17.660%
28.0	201.969	10.326	168.383	1.154%	18.814%
29.0	198.141	10.468	178.851	1.170%	19.983%
30.0	194.045	10.589	189.440	1.183%	21.166%
31.0	189.945	10.686	200.126	1.194%	22.360%
32.0	185.919	10.768	210.894	1.203%	23.564%
33.0	181.677	10.830	221.723	1.210%	24.774%
34.0	177.423	10.867	232.591	1.214%	25.988%
35.0	173.098	10.886	243.476	1.216%	27.204%
36.0	168.588	10.879	254.356	1.216%	28.420%
37.0	164.064	10.849	265.205	1.212%	29.632%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	159.598	10.803	276.008	1.207%	30.839%
39.0	155.163	10.744	286.752	1.200%	32.039%
40.0	150.521	10.661	297.413	1.191%	33.231%
41.0	145.623	10.546	307.959	1.178%	34.409%
42.0	140.875	10.409	318.368	1.163%	35.572%
43.0	136.242	10.265	328.633	1.147%	36.719%
44.0	131.630	10.110	338.743	1.130%	37.848%
45.0	126.931	9.937	348.680	1.110%	38.959%
46.0	122.165	9.742	358.422	1.088%	40.047%
47.0	117.510	9.532	367.954	1.065%	41.112%
48.0	112.845	9.312	377.266	1.040%	42.153%
49.0	108.128	9.074	386.341	1.014%	43.167%
50.0	103.380	8.819	395.159	.985%	44.152%
51.0	98.897	8.558	403.717	.956%	45.108%
52.0	94.201	8.286	412.003	.926%	46.034%
53.0	89.528	7.992	419.995	.893%	46.927%
54.0	84.780	7.683	427.678	.858%	47.785%
55.0	80.543	7.380	435.058	.825%	48.610%
56.0	75.941	7.071	442.129	.790%	49.400%
57.0	71.594	6.746	448.875	.754%	50.154%
58.0	67.176	6.417	455.292	.717%	50.871%
59.0	62.930	6.083	461.374	.680%	51.550%
60.0	58.821	5.752	467.126	.643%	52.193%
61.0	54.562	5.411	472.537	.605%	52.797%
62.0	50.541	5.064	477.602	.566%	53.363%
63.0	46.603	4.725	482.326	.528%	53.891%
64.0	42.820	4.388	486.714	.490%	54.381%
65.0	39.045	4.051	490.766	.453%	54.834%
66.0	35.513	3.720	494.486	.416%	55.250%
67.0	32.051	3.397	497.883	.380%	55.629%
68.0	28.994	3.092	500.975	.346%	55.975%
69.0	25.933	2.802	503.777	.313%	56.288%
70.0	23.145	2.521	506.298	.282%	56.570%
71.0	20.745	2.268	508.566	.253%	56.823%
72.0	18.543	2.043	510.609	.228%	57.051%
73.0	16.653	1.840	512.450	.206%	57.257%
74.0	14.988	1.663	514.113	.186%	57.443%
75.0	13.715	1.517	515.630	.169%	57.612%

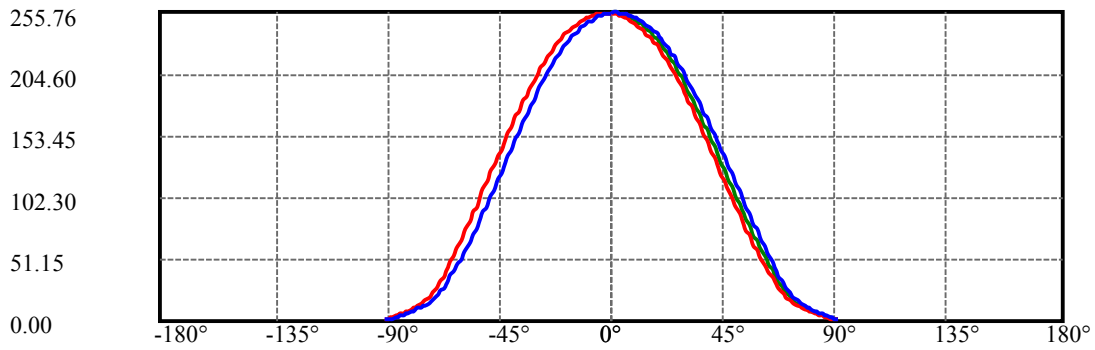
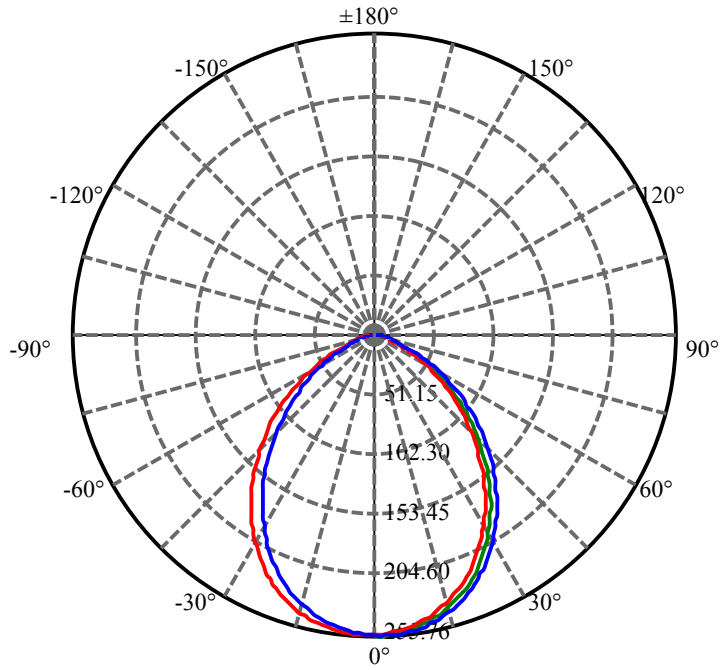
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.588	1.396	517.026	.156%	57.768%
77.0	11.526	1.286	518.312	.144%	57.912%
78.0	10.505	1.179	519.491	.132%	58.044%
79.0	9.544	1.077	520.568	.120%	58.164%
80.0	8.602	.978	521.546	.109%	58.273%
81.0	7.659	.879	522.426	.098%	58.372%
82.0	6.770	.782	523.208	.087%	58.459%
83.0	5.906	.689	523.897	.077%	58.536%
84.0	5.025	.596	524.493	.067%	58.603%
85.0	4.224	.505	524.998	.056%	58.659%
86.0	3.466	.420	525.418	.047%	58.706%
87.0	2.704	.338	525.756	.038%	58.744%
88.0	2.022	.259	526.015	.029%	58.773%
89.0	1.365	.186	526.200	.021%	58.793%
90.0	1.044	.132	526.332	.015%	58.808%

ZONAL LUMEN SUMMARY

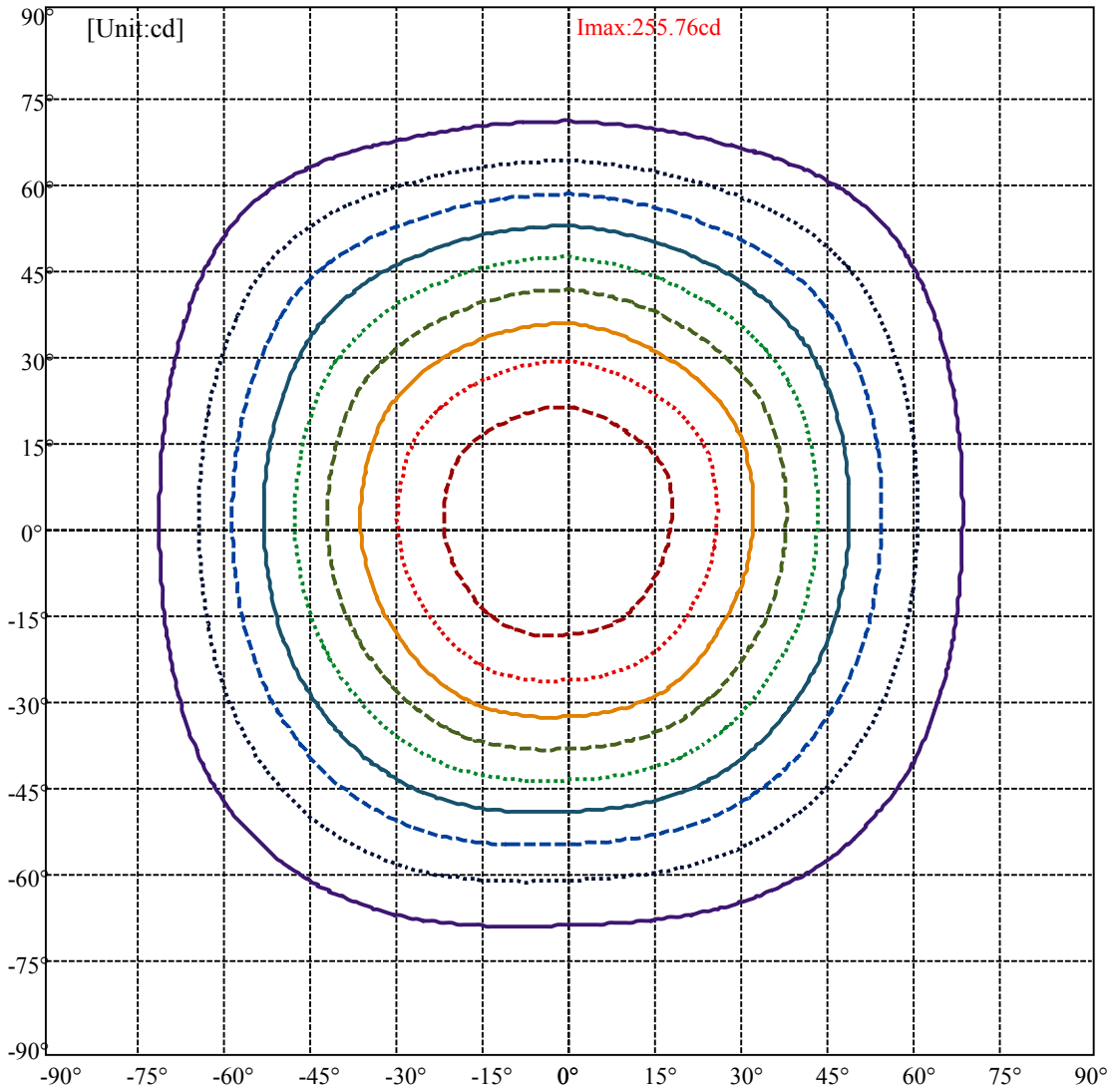
Zone	Lumens	%Lamp	%Fixt
0-30	189.44	21.17%	35.99%
0-40	297.41	33.23%	56.51%
0-60	467.13	52.19%	88.75%
0-90	526.20	58.79%	99.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-180	526.33	58.81%	100.00%

ZONAL LUMEN SUMMARY

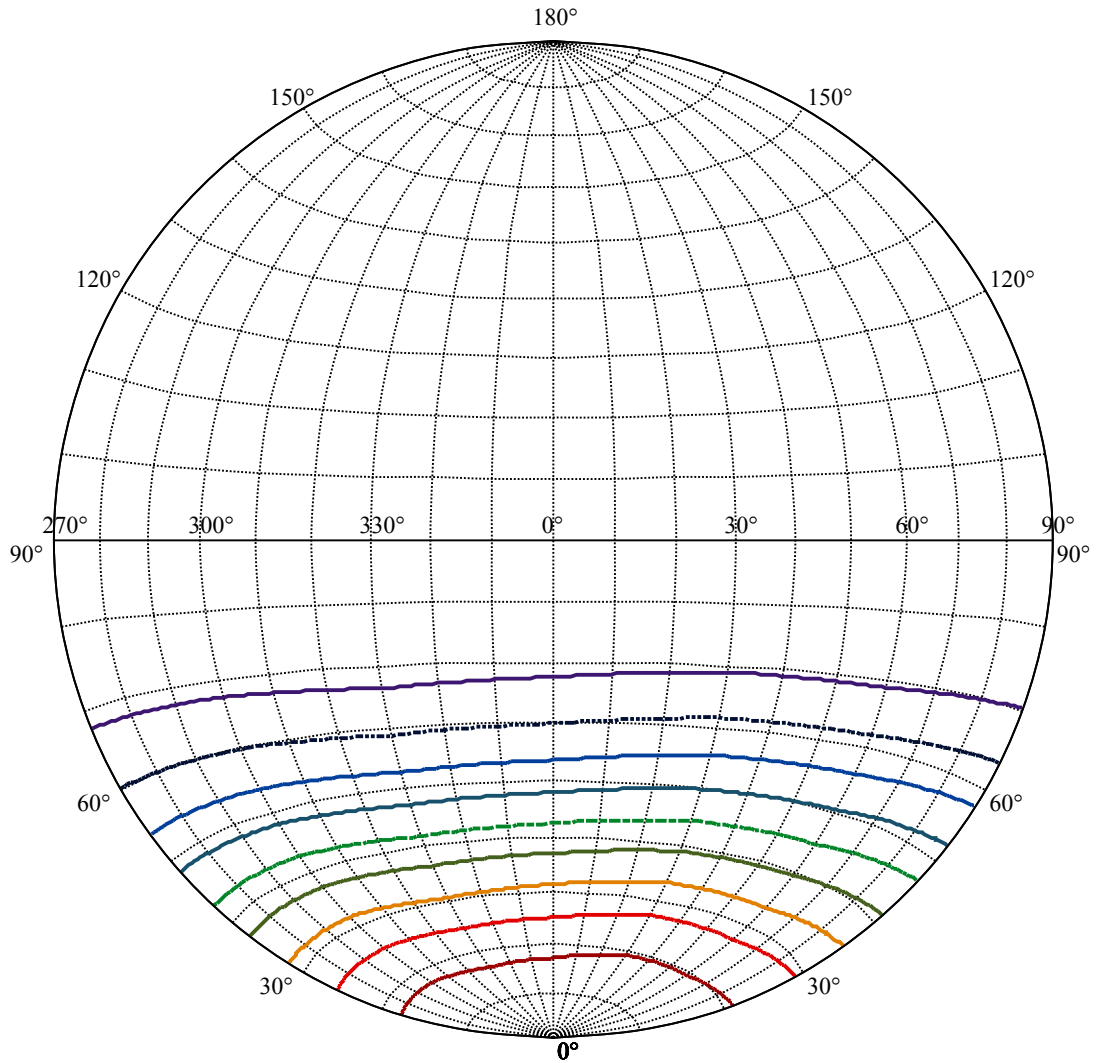
0-10	24.02
10-20	67.60
20-30	97.83
30-40	107.97
40-50	97.75
50-60	71.97
60-70	39.17
70-80	15.25
80-90	4.65
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C30(Max): —
C0/C180: —
C90/C270: —



(10%Imax)	25.5454	———
(20%Imax)	51.0908	·····
(30%Imax)	76.6362	- - - - -
(40%Imax)	102.182	—————
(50%Imax)	127.727	·····
(60%Imax)	153.272	- - - - -
(70%Imax)	178.818	—————
(80%Imax)	204.363	·····
(90%Imax)	229.909	- - - - -

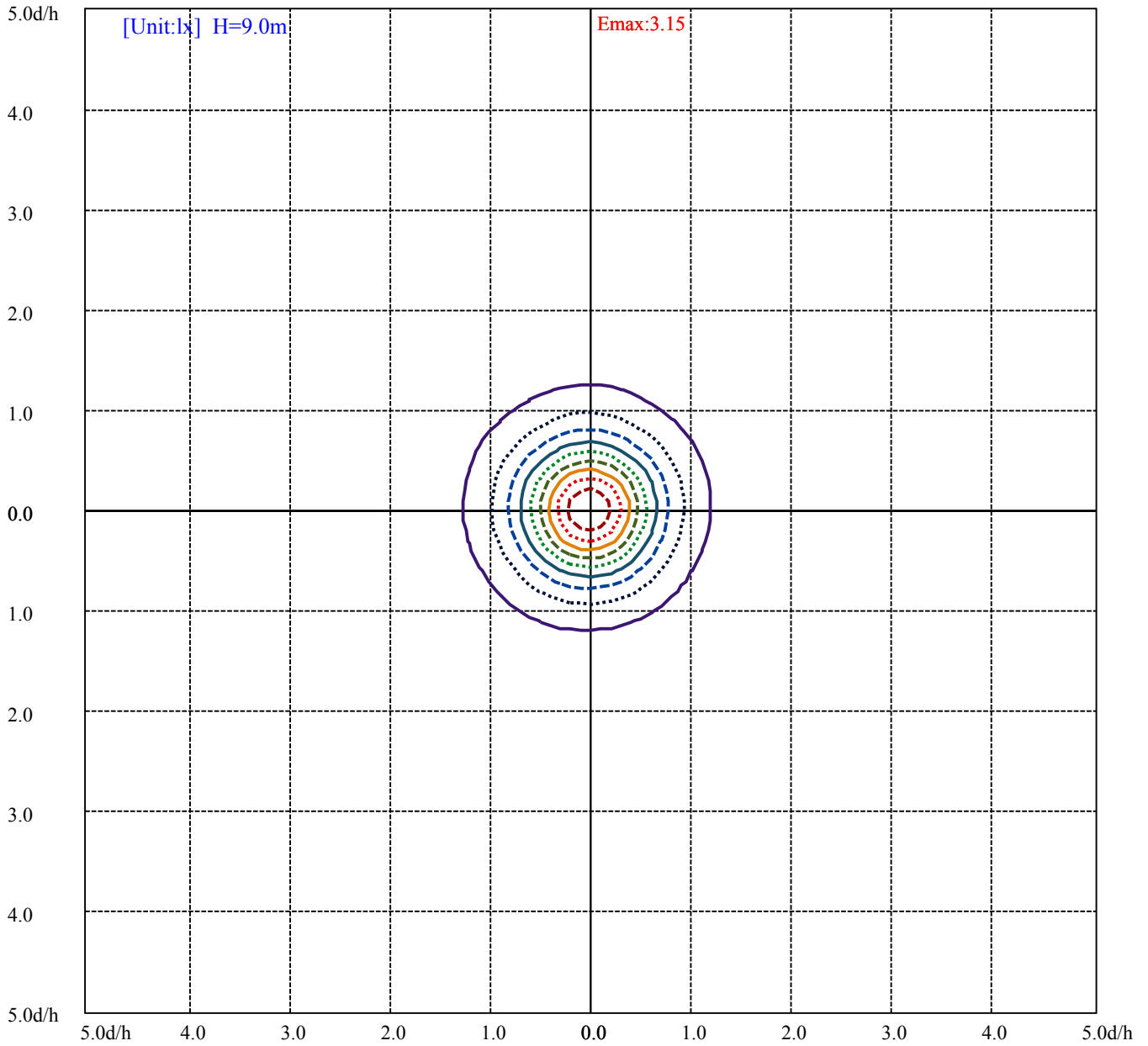


House

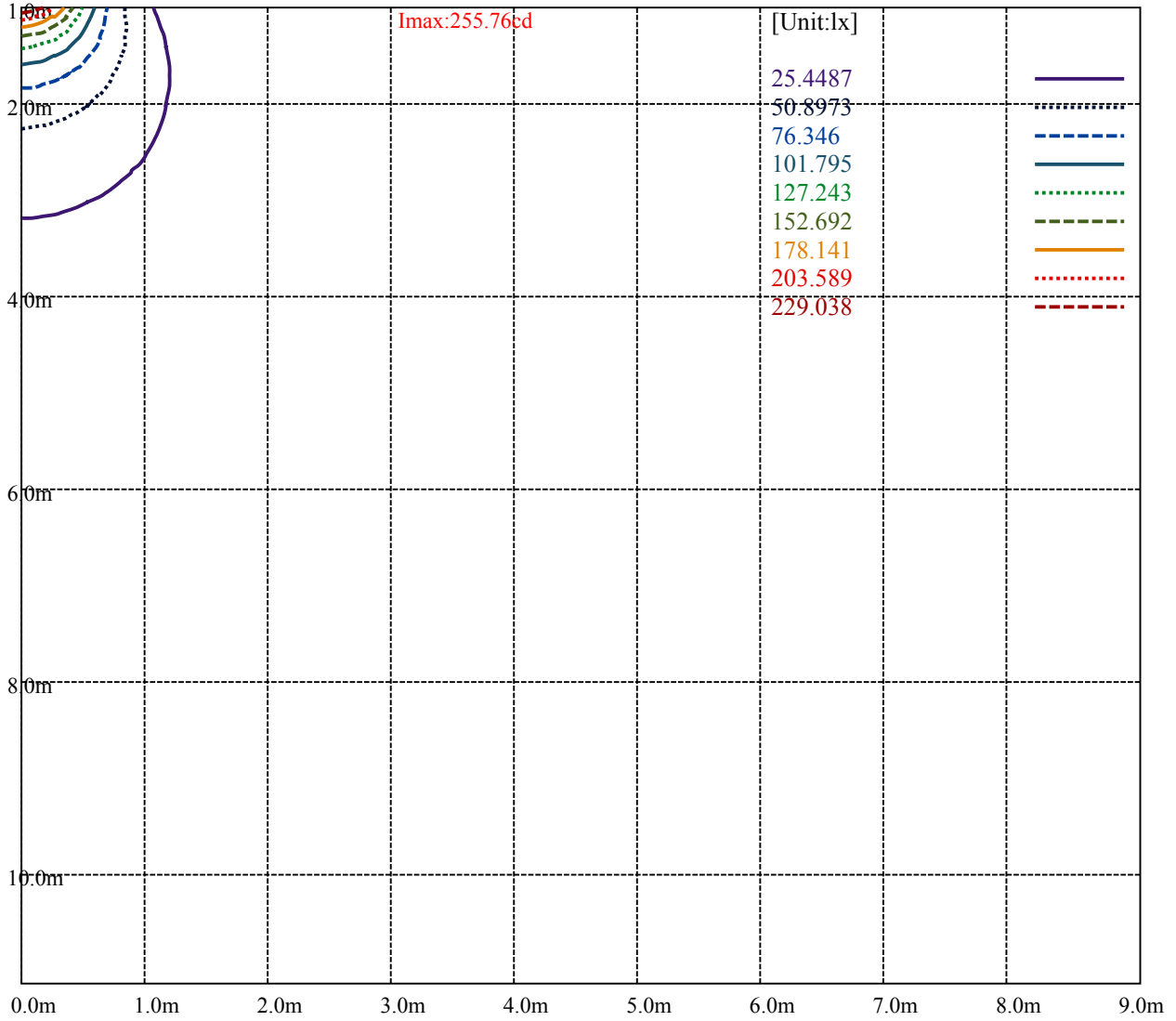
Road

I_{max}:255.76cd

(10%I _{max}) 25.5755	—
(20%I _{max}) 51.151	⋯
(30%I _{max}) 76.7266	- - -
(40%I _{max}) 102.302	—
(50%I _{max}) 127.878	⋯
(60%I _{max}) 153.453	- - -
(70%I _{max}) 179.029	—
(80%I _{max}) 204.604	⋯
(90%I _{max}) 230.18	- - -



- (10%Emax) 0.3154531 ————
- (20%Emax) 0.6309074 ······
- (30%Emax) 0.9463605 - - - -
- (40%Emax) 1.261815 ————
- (50%Emax) 1.577272 ······
- (60%Emax) 1.892716 - - - -
- (70%Emax) 2.208173 ————
- (80%Emax) 2.52363 ······
- (90%Emax) 2.839087 - - - -

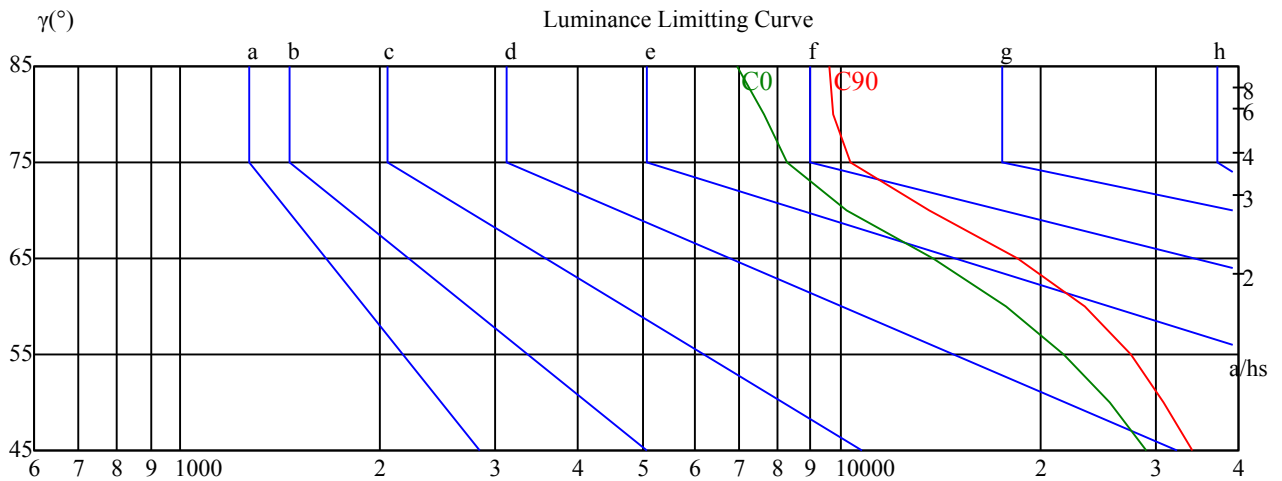


Luminance Table

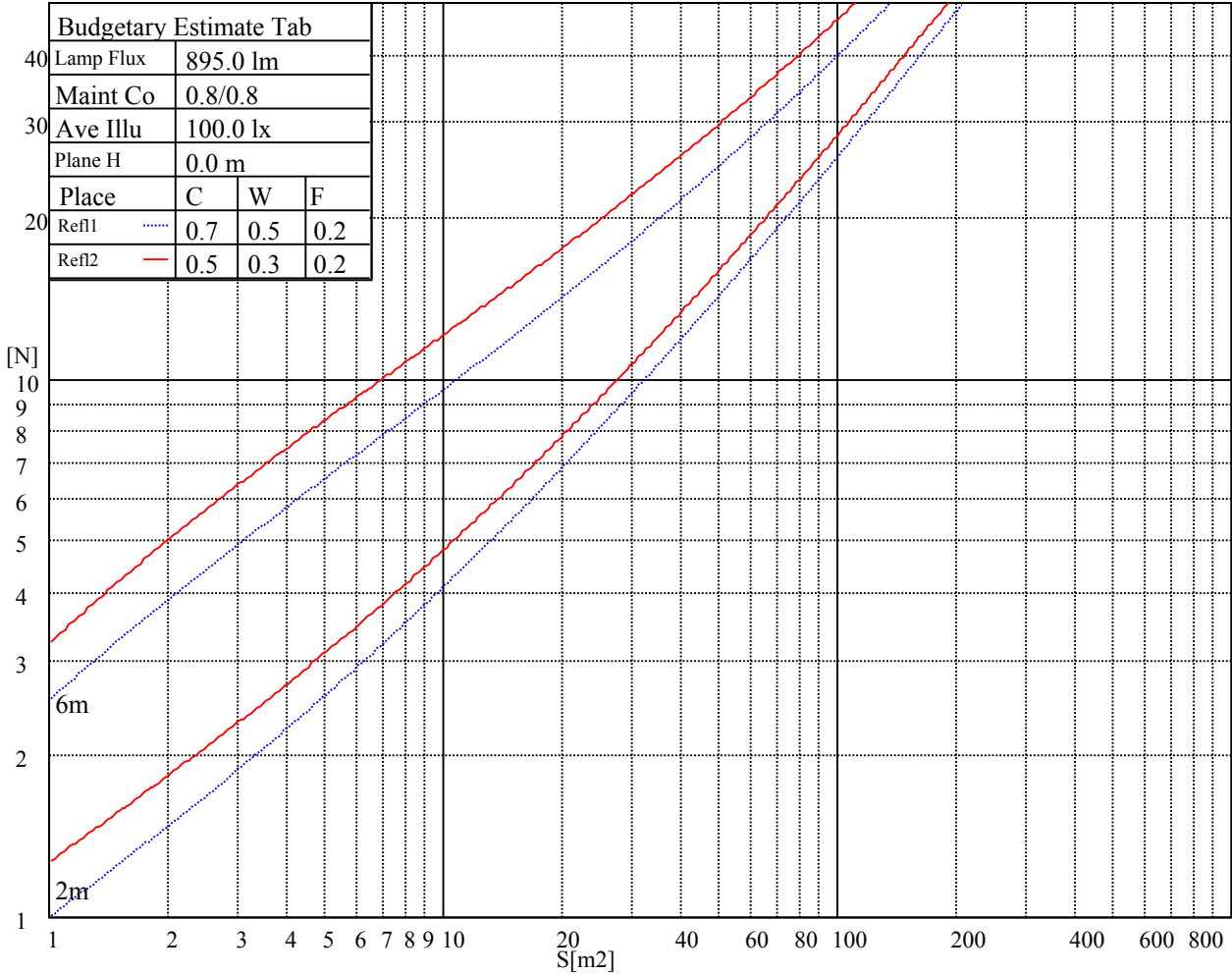
γ	45	50	55	60	65	70	75	80	85
C0	29097	25532	21792	17771	13796	10185	8277	7670	6946
C45	0	0	0	0	0	0	0	0	0
C90	34010	30879	27476	23453	18513	13562	10328	9762	9618

Glare Table

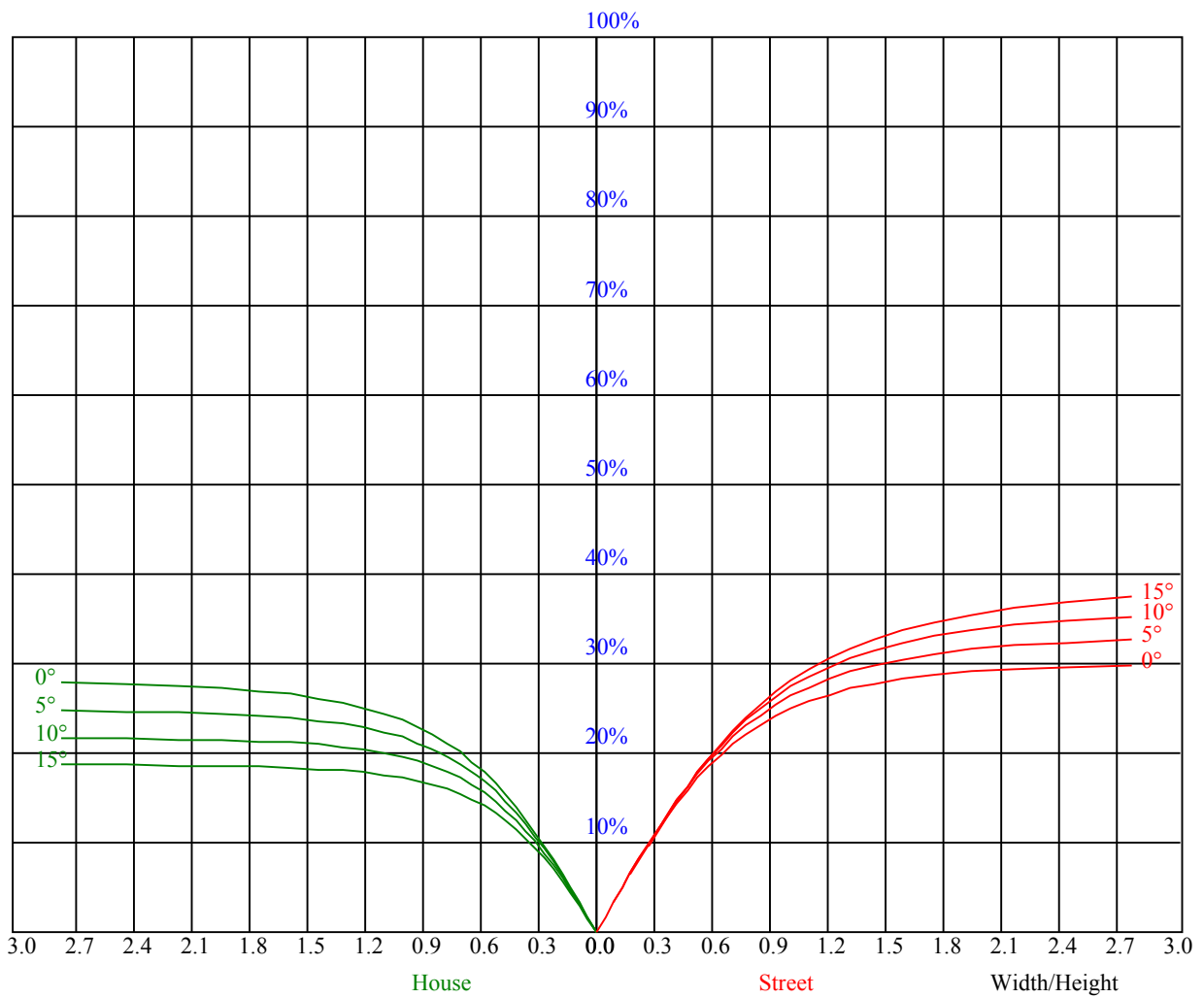
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



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	23.3	24.5	23.6	24.8	25.0	23.9	25.2	24.2	25.4	25.6
	3H	23.8	24.9	24.1	25.2	25.5	24.6	25.7	24.9	26.0	26.3
	4H	23.8	24.8	24.2	25.1	25.4	24.7	25.6	25.0	25.9	26.2
	6H	24.0	24.9	24.4	25.3	25.6	24.9	25.8	25.2	26.1	26.4
	8H	24.1	25.0	24.5	25.3	25.7	24.9	25.9	25.3	26.2	26.5
	12H	24.0	24.7	24.4	25.0	25.4	24.8	25.5	25.3	25.9	26.3
4H	2H	23.5	24.5	23.9	24.8	25.1	24.1	25.0	24.5	25.3	25.7
	3H	24.2	24.9	24.6	25.3	25.7	24.8	25.5	25.3	25.9	26.3
	4H	24.5	25.2	24.9	25.6	26.0	25.2	25.8	25.6	26.2	26.6
	6H	24.7	25.4	25.2	25.8	26.2	25.4	26.1	25.8	26.5	26.9
	8H	24.7	25.1	25.2	25.5	26.1	25.4	25.8	25.9	26.2	26.7
	12H	24.8	25.2	25.3	25.6	26.1	25.5	25.9	26.0	26.3	26.9
8H	4H	24.5	24.9	25.0	25.4	25.9	25.1	25.5	25.6	26.0	26.5
	6H	24.9	25.2	25.4	25.7	26.2	25.5	25.9	26.0	26.3	26.8
	8H	25.0	25.4	25.5	25.9	26.4	25.7	26.0	26.2	26.5	27.0
	12H	25.2	25.5	25.7	26.0	26.5	25.8	26.2	26.3	26.7	27.2
12H	4H	24.5	24.9	25.0	25.4	25.9	25.2	25.5	25.7	26.0	26.5
	6H	24.9	25.3	25.4	25.8	26.3	25.5	25.9	26.0	26.4	26.9
	8H	25.1	25.5	25.6	26.0	26.5	25.7	26.1	26.2	26.6	27.1
Variation with the observer position at spacings:											
S = 1.0H		0.4/-0.7					0.4/-0.6				
S = 1.5H		0.7/-1.7					0.7/-1.3				
S = 2.0H		2.3/-2.5					2.3/-2.2				
Standard tables:		BK3					BK2				
Uncorrected UGR		5.6					5.7				
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	0.70	0.70	0.70	0.68	0.68	0.68	0.65	0.65	0.65	0.63	0.63	0.63	0.60	0.60	0.60	0.59
1	0.63	0.60	0.59	0.61	0.59	0.58	0.59	0.57	0.56	0.57	0.55	0.54	0.55	0.53	0.53	0.51
2	0.56	0.52	0.49	0.55	0.52	0.49	0.53	0.50	0.48	0.51	0.49	0.47	0.49	0.47	0.46	0.44
3	0.50	0.46	0.42	0.49	0.45	0.42	0.47	0.44	0.41	0.46	0.43	0.40	0.44	0.42	0.40	0.39
4	0.45	0.40	0.37	0.44	0.40	0.36	0.43	0.39	0.36	0.41	0.38	0.35	0.40	0.37	0.35	0.34
5	0.40	0.36	0.32	0.40	0.35	0.32	0.39	0.35	0.32	0.37	0.34	0.31	0.36	0.33	0.31	0.30
6	0.37	0.32	0.28	0.36	0.32	0.28	0.35	0.31	0.28	0.34	0.31	0.28	0.33	0.30	0.28	0.27
7	0.34	0.29	0.25	0.33	0.29	0.25	0.32	0.28	0.25	0.31	0.28	0.25	0.31	0.27	0.25	0.24
8	0.31	0.26	0.23	0.30	0.26	0.23	0.30	0.26	0.23	0.29	0.25	0.23	0.28	0.25	0.23	0.21
9	0.28	0.24	0.21	0.28	0.24	0.21	0.27	0.23	0.21	0.27	0.23	0.21	0.26	0.23	0.21	0.20
10	0.26	0.22	0.19	0.26	0.22	0.19	0.25	0.22	0.19	0.25	0.21	0.19	0.24	0.21	0.19	0.18



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	254.49	254.06	253.59	252.90	252.21	251.32	250.36	249.20	247.83
30.0	255.76	255.65	255.33	254.91	254.43	253.85	253.01	252.16	251.05
60.0	255.28	255.17	254.91	254.54	254.17	253.64	252.90	252.11	251.05
90.0	254.86	255.07	255.07	254.91	254.65	254.38	253.85	253.27	252.53
120.0	254.91	255.12	255.17	255.07	254.80	254.49	254.06	253.54	252.80
150.0	254.65	255.02	255.17	255.23	255.23	255.07	254.65	254.17	253.54
180.0	254.49	254.70	254.75	254.70	254.54	254.28	253.80	253.11	252.43
210.0	255.76	255.70	255.60	255.39	254.96	254.43	253.69	252.85	251.69
240.0	255.28	255.12	254.86	254.54	254.01	253.32	252.58	251.69	250.68
270.0	254.86	254.54	254.12	253.59	252.95	251.95	250.89	249.89	248.57
300.0	254.91	254.59	254.12	253.59	252.85	251.95	251.00	249.84	248.46
330.0	254.65	254.22	253.59	252.74	251.95	250.89	249.78	248.57	247.03
360.0	254.49	254.06	253.59	252.90	252.21	251.32	250.36	249.20	247.83
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	246.35	244.92	243.39	241.64	239.64	237.42	235.46	233.08	230.81
30.0	249.62	248.41	246.93	245.45	243.70	241.96	240.01	237.89	235.67
60.0	249.84	248.41	247.03	245.40	243.81	242.01	240.22	238.16	235.94
90.0	251.63	250.68	249.36	248.14	246.61	245.18	243.39	241.54	239.53
120.0	251.84	250.73	249.73	248.41	247.09	245.55	244.02	242.17	240.22
150.0	252.90	252.00	250.95	249.73	248.57	247.03	245.55	243.86	242.01
180.0	251.47	250.58	249.41	248.09	246.77	245.18	243.70	241.96	240.27
210.0	250.63	249.36	248.04	246.51	244.81	243.23	241.27	239.37	237.15
240.0	249.68	248.51	246.98	245.34	243.65	241.96	240.01	238.10	235.78
270.0	247.30	245.87	244.34	242.54	240.59	238.84	236.68	234.51	232.08
300.0	247.25	245.87	244.13	242.38	240.43	238.58	236.31	234.19	231.71
330.0	245.66	243.97	242.17	240.43	238.37	236.41	234.09	231.92	229.33
360.0	246.35	244.92	243.39	241.64	239.64	237.42	235.46	233.08	230.81
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	228.22	225.68	222.72	219.45	216.33	212.84	209.46	205.54	201.53
30.0	233.56	230.91	228.43	225.42	222.30	219.34	215.80	212.63	208.82
60.0	233.77	231.23	228.75	225.73	222.56	219.60	216.12	212.63	209.40
90.0	237.57	235.25	233.03	230.39	227.80	224.78	221.56	218.60	215.11
120.0	238.31	235.99	233.82	231.18	228.32	225.63	222.35	219.13	216.17
150.0	240.27	238.10	236.04	233.61	231.34	228.59	225.63	222.51	219.60
180.0	238.21	236.20	233.82	231.18	228.32	225.63	222.41	219.50	216.17
210.0	234.88	232.66	229.96	227.00	224.20	221.03	217.97	214.53	210.83
240.0	233.77	231.28	228.69	225.84	223.04	220.03	216.54	212.89	209.14
270.0	229.43	226.95	223.94	220.71	217.70	214.21	210.94	207.13	203.17
300.0	229.33	226.63	223.83	220.61	217.60	214.42	210.62	206.76	202.74
330.0	226.63	223.57	220.66	217.60	214.11	210.46	207.02	203.01	198.94
360.0	228.22	225.68	222.72	219.45	216.33	212.84	209.46	205.54	201.53
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	197.88	193.60	189.32	185.51	181.18	177.16	172.56	167.81	163.63
30.0	205.33	201.37	197.25	192.91	189.00	184.67	180.70	176.69	172.09
60.0	205.97	202.00	197.99	193.76	190.01	185.57	181.60	177.11	173.04
90.0	211.94	208.35	204.59	200.63	197.04	192.97	189.21	185.46	181.13
120.0	213.10	209.46	205.65	201.69	198.09	193.97	190.16	185.83	181.92
150.0	216.54	213.05	209.83	206.13	202.22	198.25	194.66	190.96	186.25
180.0	213.16	209.61	205.70	202.27	198.15	194.50	190.22	185.99	182.08
210.0	207.39	203.43	199.84	195.66	191.91	187.68	183.24	178.75	174.78
240.0	205.65	201.58	197.93	193.71	189.95	185.73	181.18	177.06	172.41
270.0	199.52	195.34	191.54	187.15	183.19	178.59	173.94	169.24	165.01
300.0	199.10	194.87	191.01	186.62	182.77	178.22	173.62	169.39	164.64
330.0	195.13	190.96	187.05	182.50	175.84	173.73	169.02	164.80	160.20
360.0	197.88	193.60	189.32	185.51	181.18	177.16	172.56	167.81	163.63

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	158.88	154.49	149.57	145.13	140.17	135.30	130.49	126.16	121.19
30.0	167.33	162.58	158.40	153.59	149.26	144.34	139.37	134.83	129.86
60.0	168.55	163.95	159.93	155.23	151.00	146.03	141.01	136.04	131.71
90.0	176.69	172.14	167.65	163.53	159.51	154.75	149.84	145.45	140.75
120.0	177.48	173.09	169.02	164.37	160.20	155.28	150.26	145.93	141.06
150.0	182.34	177.85	173.83	169.71	165.11	160.36	155.44	151.00	146.24
180.0	177.64	173.20	169.18	165.11	160.51	155.76	150.79	146.46	141.65
210.0	170.13	165.96	161.25	157.08	152.27	147.35	143.07	138.05	133.72
240.0	168.18	163.42	159.25	154.33	149.36	144.45	140.17	135.30	131.02
270.0	160.25	155.86	150.90	146.51	141.54	136.57	132.13	127.11	122.67
300.0	160.36	155.39	150.37	145.98	140.96	135.99	131.60	126.74	122.30
330.0	155.23	150.84	145.82	141.38	136.36	131.29	126.32	121.83	117.39
360.0	158.88	154.49	149.57	145.13	140.17	135.30	130.49	126.16	121.19
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	116.75	111.68	107.29	102.43	97.51	93.13	88.32	84.09	79.44
30.0	125.53	120.66	116.28	111.41	106.60	101.69	97.36	92.60	88.32
60.0	127.01	122.67	117.81	113.53	108.72	104.01	99.68	94.82	90.43
90.0	136.47	131.71	127.38	122.41	117.54	112.63	108.24	103.33	98.83
120.0	136.20	131.87	126.90	122.57	117.65	112.63	108.14	103.01	98.46
150.0	142.02	137.15	132.13	127.75	122.72	117.76	113.26	108.72	103.64
180.0	137.26	132.40	128.01	123.20	118.28	113.85	108.82	104.33	99.20
210.0	128.80	123.94	119.02	114.69	110.30	105.55	101.21	96.35	91.49
240.0	126.00	121.03	116.59	111.73	107.45	102.64	98.31	93.55	88.95
270.0	117.60	112.74	107.87	103.49	99.10	94.18	89.96	85.09	80.44
300.0	117.17	112.15	107.71	102.75	98.36	93.50	89.22	84.51	79.81
330.0	112.37	107.98	103.12	98.20	93.29	89.00	84.25	80.02	75.32
360.0	116.75	111.68	107.29	102.43	97.51	93.13	88.32	84.09	79.44
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	74.95	70.93	66.38	62.47	58.14	54.39	50.42	46.46	42.60
30.0	83.40	79.28	74.79	70.40	66.49	62.10	58.30	54.07	50.05
60.0	85.57	81.34	76.80	72.14	67.55	63.53	59.09	55.18	50.90
90.0	93.76	89.43	84.67	79.86	75.63	70.77	66.54	61.84	57.24
120.0	93.34	88.95	84.14	79.23	74.36	70.14	65.48	61.31	56.66
150.0	98.52	93.55	89.22	84.35	79.97	75.10	70.82	66.07	61.26
180.0	94.24	90.43	84.93	80.60	75.79	71.03	66.91	62.21	58.03
210.0	86.73	82.50	77.69	73.57	68.92	64.32	60.31	55.81	52.06
240.0	84.41	80.34	75.74	71.72	67.28	63.37	59.09	54.86	51.27
270.0	75.90	71.83	67.39	63.53	59.25	55.07	51.53	47.62	44.24
300.0	75.32	71.30	67.28	62.79	58.51	54.70	50.69	46.62	43.18
330.0	71.25	66.65	62.26	58.46	54.23	50.63	46.67	42.71	39.01
360.0	74.95	70.93	66.38	62.47	58.14	54.39	50.42	46.46	42.60
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	39.38	35.99	33.09	29.97	27.27	24.42	21.88	19.77	17.76
30.0	46.46	42.60	38.85	35.57	32.08	29.12	25.95	23.04	20.72
60.0	46.62	42.86	38.79	35.31	31.61	28.54	25.42	22.52	20.03
90.0	53.22	48.78	44.40	40.70	36.68	33.30	29.70	26.32	23.63
120.0	52.06	48.04	43.60	39.80	35.73	32.29	28.70	25.48	22.57
150.0	57.08	52.54	48.57	44.24	39.96	36.36	32.50	28.86	25.90
180.0	53.43	49.05	44.66	40.86	36.79	33.35	29.76	26.43	23.78
210.0	47.73	43.92	39.85	35.94	32.29	29.23	25.95	23.31	20.61
240.0	47.20	43.71	40.01	36.36	33.19	29.70	26.80	23.78	21.46
270.0	40.64	37.42	33.98	30.71	27.64	25.11	22.46	20.30	18.13
300.0	39.53	36.42	33.09	29.97	27.06	24.63	22.41	20.03	18.23
330.0	35.89	32.50	29.65	26.74	24.31	21.88	19.66	17.92	16.12
360.0	39.38	35.99	33.09	29.97	27.27	24.42	21.88	19.77	17.76

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	16.07	14.38	13.16	12.16	11.26	10.25	9.41	8.40	7.56
30.0	18.45	16.65	14.96	13.69	12.58	11.52	10.46	9.57	8.56
60.0	18.02	16.23	14.64	13.37	12.37	11.20	10.15	9.25	8.19
90.0	20.93	18.82	16.75	15.17	13.85	12.68	11.52	10.52	9.62
120.0	20.24	18.02	16.23	14.69	13.53	12.37	11.26	10.25	9.14
150.0	22.89	20.51	18.29	16.28	14.85	13.58	12.53	11.42	10.46
180.0	21.04	18.87	16.81	15.22	13.90	12.74	11.57	10.62	9.67
210.0	18.55	16.54	14.85	13.79	12.58	11.57	10.46	9.46	8.51
240.0	19.08	17.02	15.12	13.85	12.74	11.79	10.78	9.83	8.83
270.0	16.38	14.69	13.27	12.37	11.36	10.46	9.51	8.51	7.72
300.0	16.33	14.75	13.42	12.53	11.52	10.62	9.67	8.88	7.93
330.0	14.53	13.37	12.37	11.47	10.52	9.51	8.72	7.82	7.03
360.0	16.07	14.38	13.16	12.16	11.26	10.25	9.41	8.40	7.56
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.71	5.92	5.02	4.23	3.44	2.75	2.06	1.37	0.90
30.0	7.72	6.77	5.97	5.02	4.23	3.54	2.70	2.06	1.32
60.0	7.24	6.45	5.60	4.81	3.96	3.17	2.43	1.80	1.11
90.0	8.56	7.51	6.61	5.66	4.76	4.07	3.22	2.48	1.69
120.0	8.14	7.29	6.40	5.55	4.65	3.75	2.96	2.33	1.59
150.0	9.35	8.35	7.29	6.40	5.50	4.65	3.81	3.01	2.33
180.0	8.72	7.61	6.82	5.92	5.02	4.28	3.49	2.75	2.01
210.0	7.66	6.71	5.87	4.92	4.12	3.38	2.64	1.96	1.22
240.0	7.82	7.03	6.13	5.18	4.49	3.70	2.91	2.22	1.48
270.0	6.82	5.97	5.23	4.33	3.54	2.85	2.17	1.53	0.90
300.0	7.03	6.24	5.39	4.49	3.81	3.07	2.38	1.69	1.00
330.0	6.13	5.39	4.55	3.81	3.17	2.38	1.69	1.06	0.85
360.0	6.71	5.92	5.02	4.23	3.44	2.75	2.06	1.37	0.90
C/ γ (°)	90.0								
0.0	0.90								
30.0	0.85								
60.0	0.90								
90.0	1.00								
120.0	1.27								
150.0	1.59								
180.0	1.64								
210.0	0.90								
240.0	0.90								
270.0	0.85								
300.0	0.85								
330.0	0.90								
360.0	0.90								