

DILUCE | 登路仕

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

HX-DA615S-40090

LumCAT: HX-DA615S-40090	Luminaire: HX-DA615S
Report No:	Voltage(V): 230.300
Test No:	Current(A): 0.084
LampCAT: 2835 12C10B 40090	Power (W): 18.900
Lamp flux(lm): 2391.0	PF: 0.971
Number of Lamps: 1	Ballast type: OSRAM OTFIT 20/220-240/500CS
Length(mm): -135	Width(mm): -135
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1722.68
Efficiency(%): 72.05%
Lumens(lm)/Power(W): 91.15
Central intensity(cd): 721.971
Maximum intensity(cd): 731.537
Angle of maximum intensity: C=30.0 γ =2.0
Beam Angle(50%Imax): [H]Left=51.2 Right=47.5
[V]Left=50.4 Right=47.9
Field angle(10%Imax): [H]Left=76.5 Right=72.4
[V]Left=75.6 Right=73.0
Maximum s/h: C0_180=1.22 C90_270=1.20
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 72.05%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 84.893%

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

Date: 2023-9-21
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	726.217	.000	.000	.000%	.000%
1.0	726.062	.695	.695	.029%	.029%
2.0	725.538	2.083	2.778	.087%	.116%
3.0	724.657	3.468	6.247	.145%	.261%
4.0	723.459	4.847	11.094	.203%	.464%
5.0	721.953	6.218	17.312	.260%	.724%
6.0	720.147	7.579	24.891	.317%	1.041%
7.0	717.927	8.926	33.817	.373%	1.414%
8.0	715.426	10.258	44.075	.429%	1.843%
9.0	712.563	11.573	55.648	.484%	2.327%
10.0	709.229	12.867	68.515	.538%	2.866%
11.0	705.780	14.139	82.654	.591%	3.457%
12.0	701.979	15.389	98.043	.644%	4.100%
13.0	697.724	16.611	114.654	.695%	4.795%
14.0	693.263	17.805	132.458	.745%	5.540%
15.0	688.286	18.967	151.425	.793%	6.333%
16.0	683.357	20.098	171.523	.841%	7.174%
17.0	677.869	21.198	192.721	.887%	8.060%
18.0	672.148	22.259	214.980	.931%	8.991%
19.0	665.960	23.280	238.260	.974%	9.965%
20.0	659.521	24.260	262.520	1.015%	10.980%
21.0	652.672	25.197	287.717	1.054%	12.033%
22.0	645.660	26.091	313.807	1.091%	13.125%
23.0	638.181	26.938	340.746	1.127%	14.251%
24.0	630.425	27.736	368.482	1.160%	15.411%
25.0	622.378	28.486	396.968	1.191%	16.603%
26.0	613.873	29.182	426.150	1.220%	17.823%
27.0	605.329	29.828	455.978	1.248%	19.071%
28.0	596.414	30.426	486.403	1.273%	20.343%
29.0	587.412	30.972	517.376	1.295%	21.638%
30.0	577.973	31.465	548.841	1.316%	22.954%
31.0	568.459	31.904	580.744	1.334%	24.289%
32.0	558.845	32.296	613.040	1.351%	25.640%
33.0	548.781	32.631	645.671	1.365%	27.004%
34.0	538.509	32.905	678.576	1.376%	28.380%
35.0	528.080	33.124	711.700	1.385%	29.766%
36.0	517.655	33.296	744.997	1.393%	31.158%
37.0	506.877	33.414	778.411	1.398%	32.556%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	496.095	33.478	811.889	1.400%	33.956%
39.0	484.873	33.483	845.372	1.400%	35.356%
40.0	473.721	33.432	878.804	1.398%	36.755%
41.0	462.067	33.323	912.127	1.394%	38.148%
42.0	450.694	33.162	945.290	1.387%	39.535%
43.0	439.199	32.964	978.254	1.379%	40.914%
44.0	427.686	32.719	1010.972	1.368%	42.282%
45.0	416.089	32.427	1043.400	1.356%	43.639%
46.0	403.911	32.068	1075.468	1.341%	44.980%
47.0	391.997	31.655	1107.123	1.324%	46.304%
48.0	379.819	31.201	1138.324	1.305%	47.609%
49.0	367.997	30.709	1169.034	1.284%	48.893%
50.0	355.533	30.166	1199.200	1.262%	50.155%
51.0	343.641	29.581	1228.781	1.237%	51.392%
52.0	331.295	28.962	1257.743	1.211%	52.603%
53.0	318.954	28.286	1286.029	1.183%	53.786%
54.0	306.745	27.578	1313.607	1.153%	54.940%
55.0	294.470	26.837	1340.444	1.122%	56.062%
56.0	282.217	26.059	1366.503	1.090%	57.152%
57.0	270.277	25.261	1391.764	1.057%	58.208%
58.0	258.125	24.435	1416.199	1.022%	59.230%
59.0	245.986	23.568	1439.767	.986%	60.216%
60.0	233.817	22.668	1462.435	.948%	61.164%
61.0	221.511	21.729	1484.164	.909%	62.073%
62.0	209.615	20.774	1504.938	.869%	62.942%
63.0	197.591	19.805	1524.742	.828%	63.770%
64.0	186.077	18.826	1543.569	.787%	64.557%
65.0	174.067	17.823	1561.392	.745%	65.303%
66.0	162.708	16.803	1578.195	.703%	66.006%
67.0	150.807	15.764	1593.959	.659%	66.665%
68.0	139.457	14.704	1608.663	.615%	67.280%
69.0	128.287	13.659	1622.322	.571%	67.851%
70.0	117.448	12.621	1634.943	.528%	68.379%
71.0	106.807	11.591	1646.533	.485%	68.864%
72.0	96.316	10.562	1657.095	.442%	69.306%
73.0	86.190	9.544	1666.639	.399%	69.705%
74.0	75.888	8.521	1675.160	.356%	70.061%
75.0	66.520	7.524	1682.684	.315%	70.376%

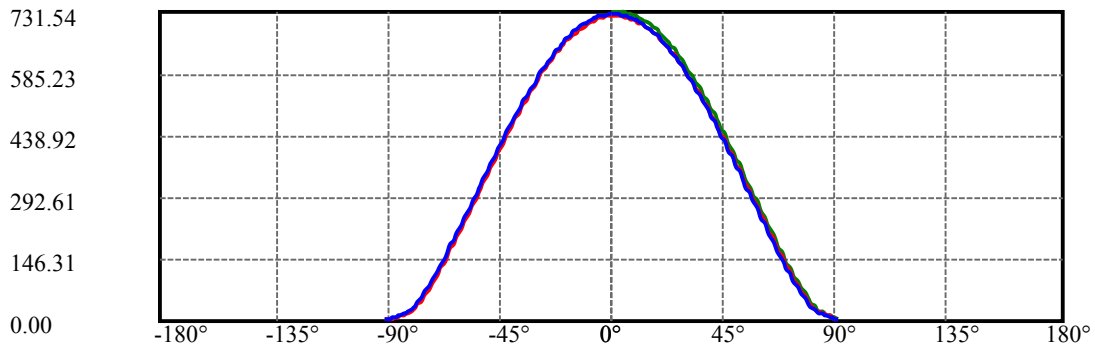
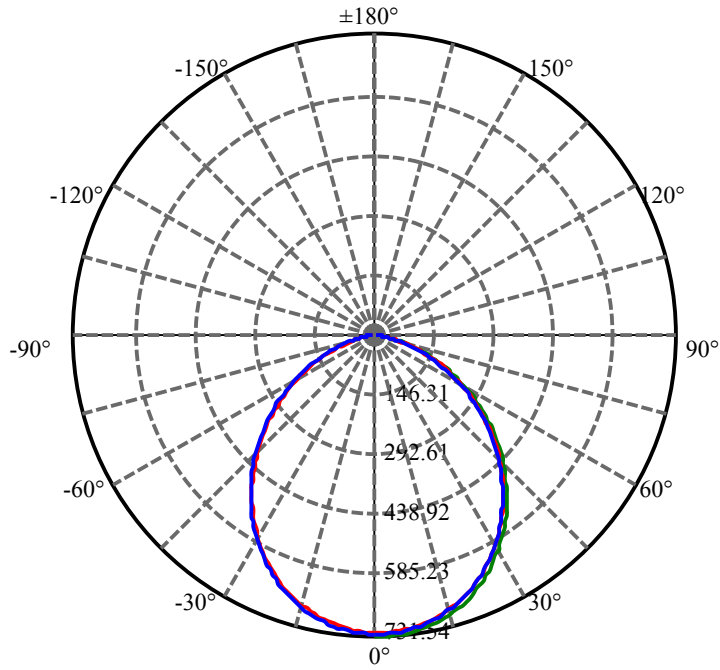
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	57.301	6.573	1689.257	.275%	70.651%
77.0	48.911	5.663	1694.920	.237%	70.887%
78.0	41.027	4.814	1699.734	.201%	71.089%
79.0	34.315	4.048	1703.782	.169%	71.258%
80.0	28.593	3.392	1707.174	.142%	71.400%
81.0	24.528	2.873	1710.046	.120%	71.520%
82.0	21.357	2.488	1712.535	.104%	71.624%
83.0	18.631	2.174	1714.708	.091%	71.715%
84.0	16.116	1.893	1716.601	.079%	71.794%
85.0	13.746	1.630	1718.231	.068%	71.862%
86.0	11.390	1.374	1719.605	.057%	71.920%
87.0	9.086	1.121	1720.726	.047%	71.967%
88.0	6.787	.870	1721.595	.036%	72.003%
89.0	4.713	.630	1722.226	.026%	72.030%
90.0	3.634	.458	1722.683	.019%	72.049%

ZONAL LUMEN SUMMARY

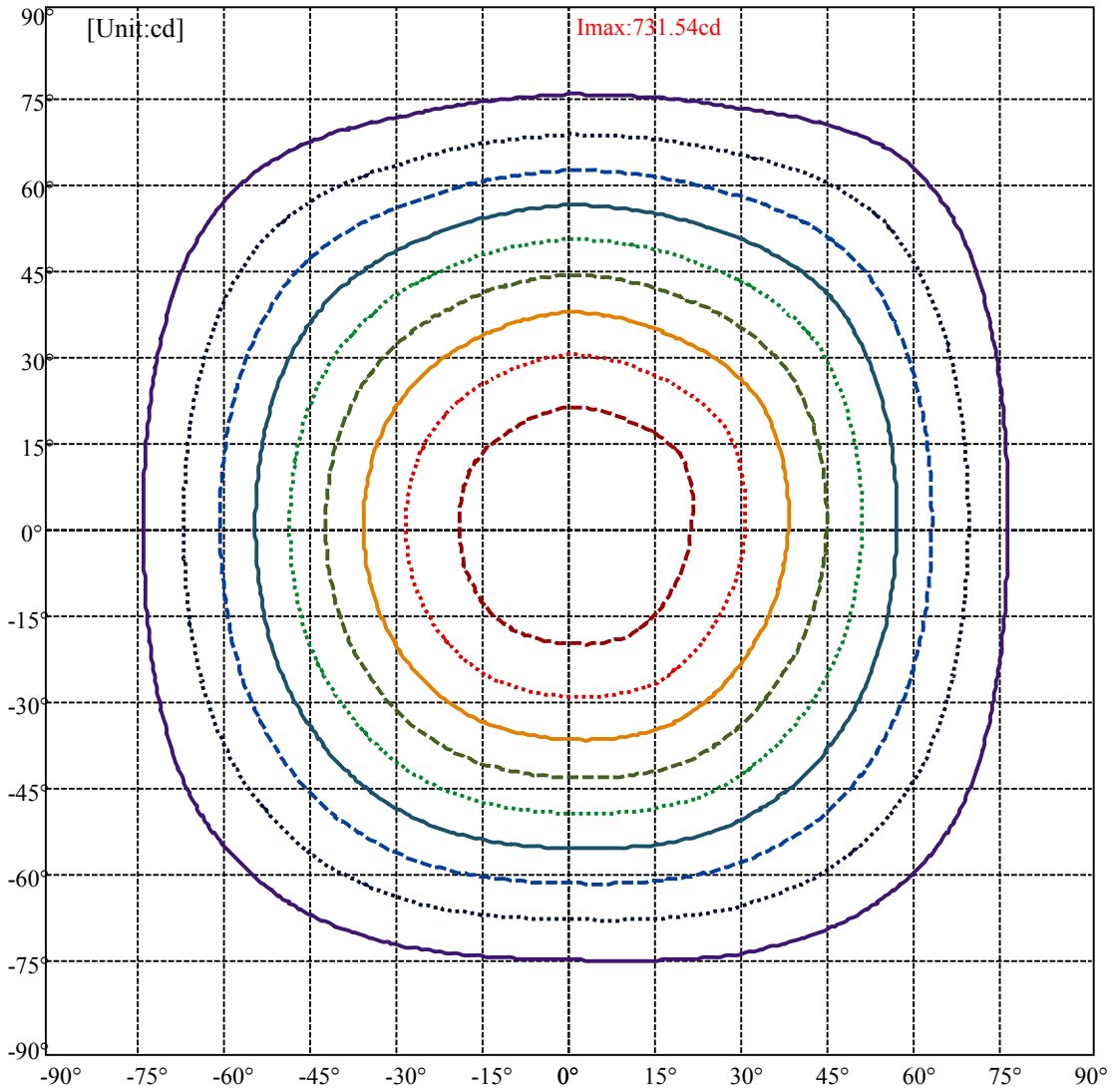
Zone	Lumens	%Lamp	%Fixt
0-30	548.84	22.95%	31.86%
0-40	878.80	36.75%	51.01%
0-60	1462.44	61.16%	84.89%
0-90	1722.23	72.03%	99.97%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-180	1722.68	72.05%	100.00%

ZONAL LUMEN SUMMARY

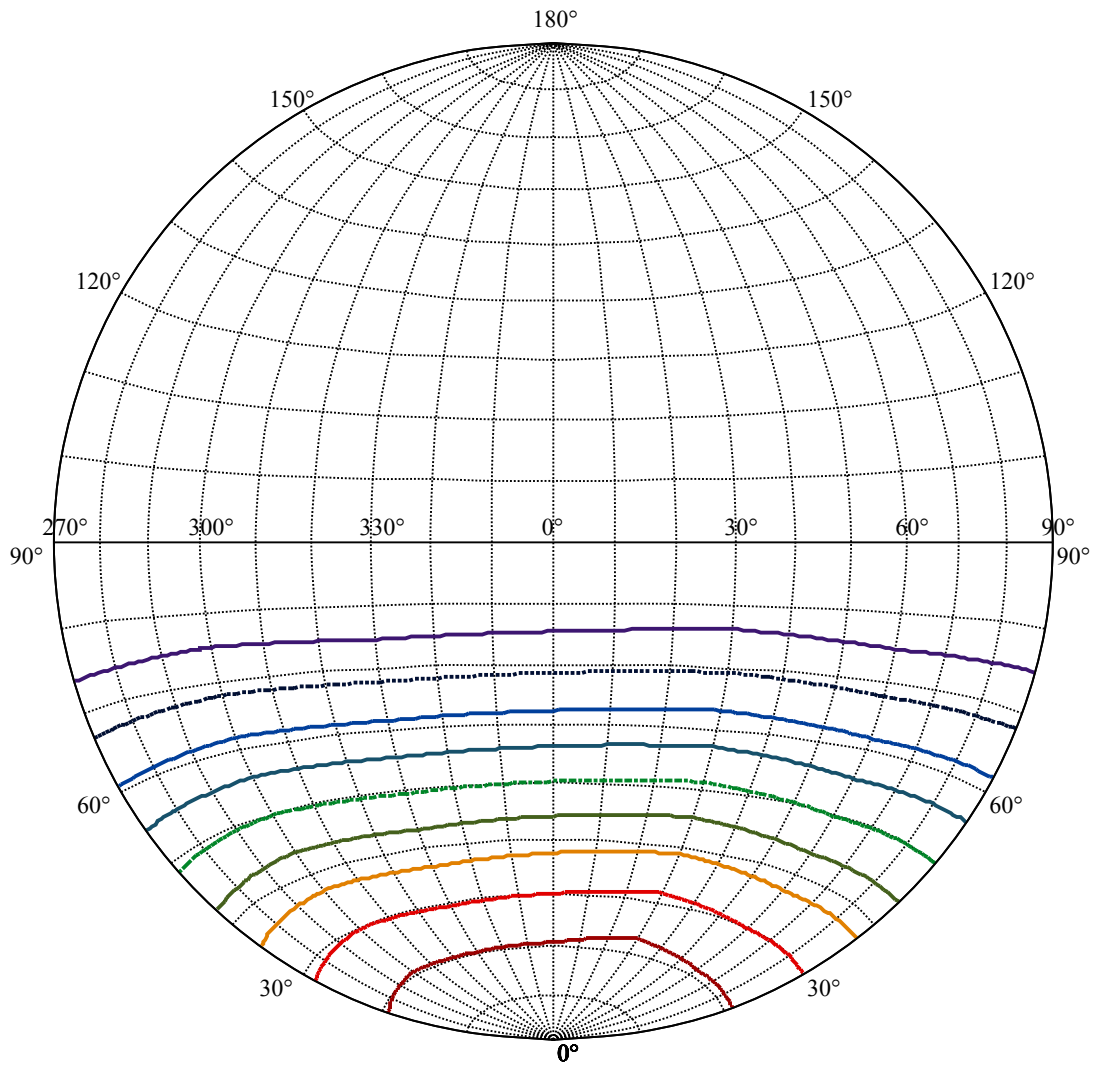
0-10	68.51
10-20	194.01
20-30	286.32
30-40	329.96
40-50	320.40
50-60	263.23
60-70	172.51
70-80	72.23
80-90	15.05
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



C30(Max): —
C0/C180: —
C90/C270: —



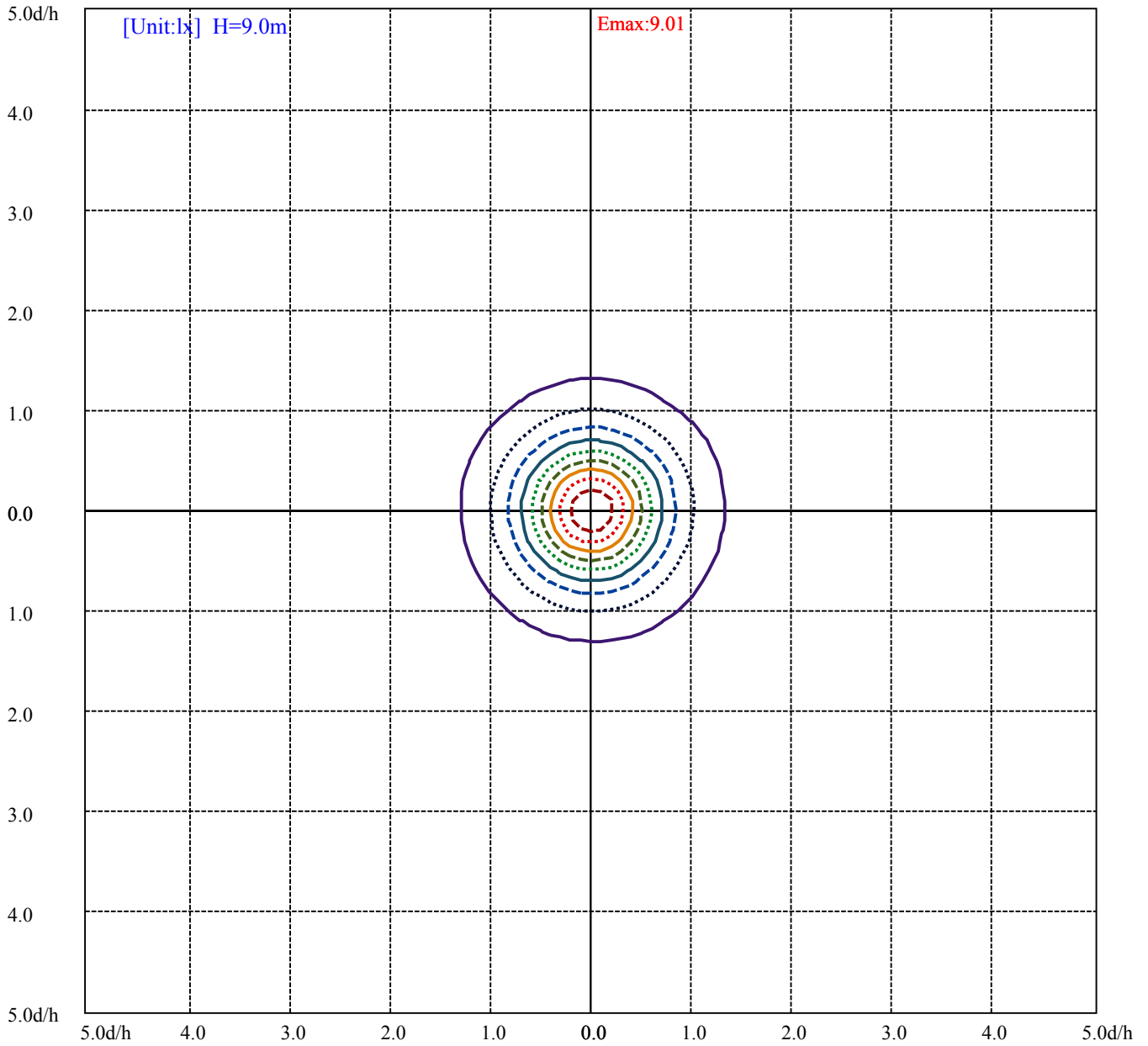
- (10%Imax) 73.063
- (20%Imax) 146.126
- (30%Imax) 219.189
- (40%Imax) 292.252
- (50%Imax) 365.315
- (60%Imax) 438.378
- (70%Imax) 511.441
- (80%Imax) 584.504
- (90%Imax) 657.567



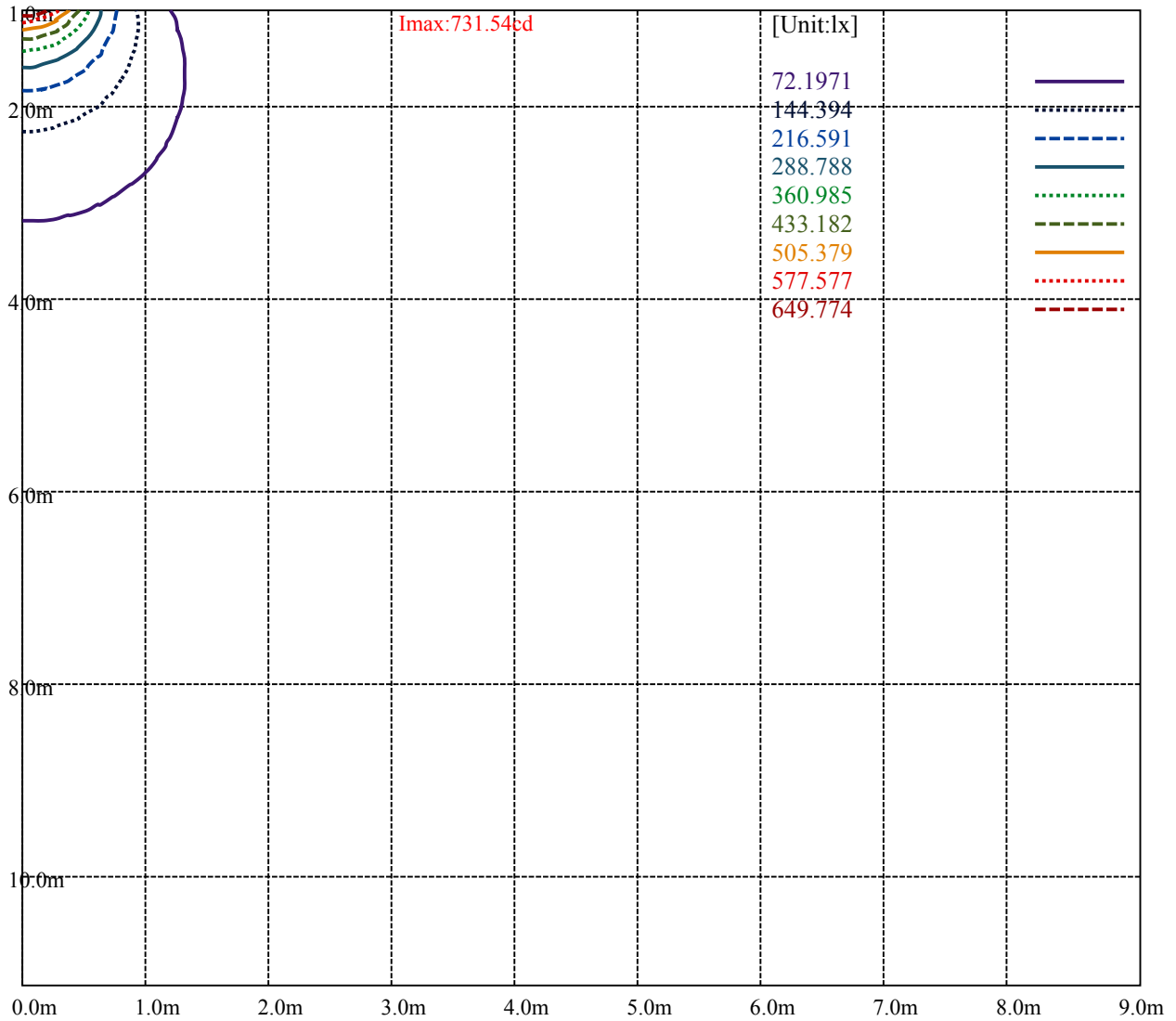
House

Road

I_{max}:731.54cd	
(10%I _{max}) 73.1537	—
(20%I _{max}) 146.307	⋯
(30%I _{max}) 219.461	- - -
(40%I _{max}) 292.615	—
(50%I _{max}) 365.768	⋯
(60%I _{max}) 438.922	- - -
(70%I _{max}) 512.076	—
(80%I _{max}) 585.23	⋯
(90%I _{max}) 658.383	- - -



- (10%Emax) 0.9010444
- (20%Emax) 1.802086
- (30%Emax) 2.703136
- (40%Emax) 3.604173
- (50%Emax) 4.505222
- (60%Emax) 5.40626
- (70%Emax) 6.307309
- (80%Emax) 7.208345
- (90%Emax) 8.109395

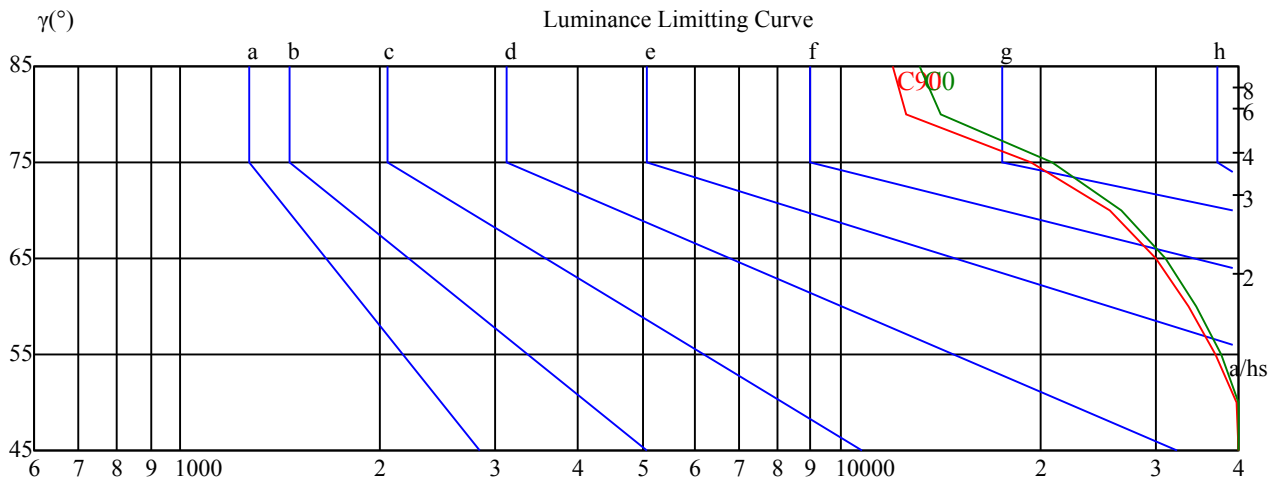


Luminance Table

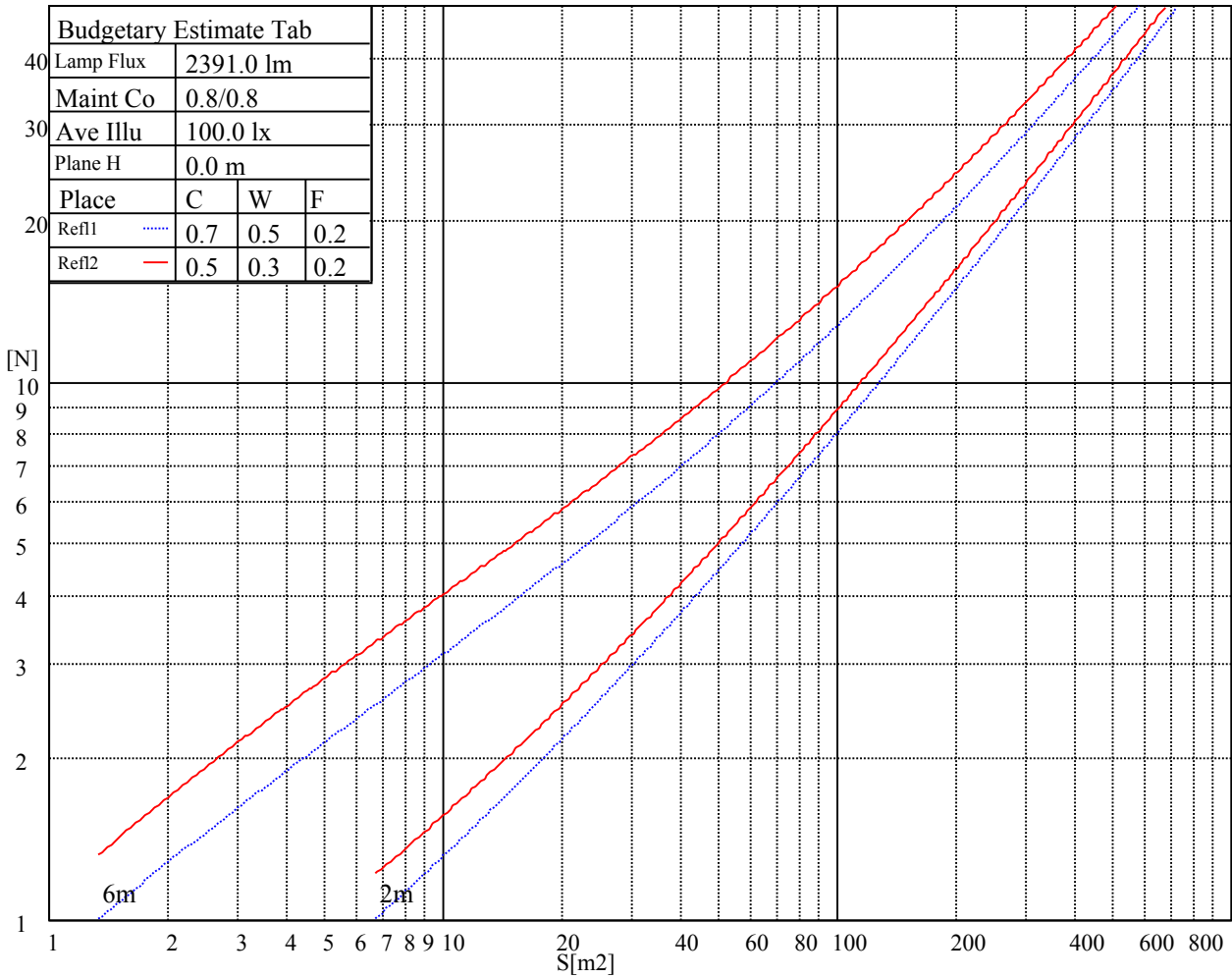
γ	45	50	55	60	65	70	75	80	85
C0	42543	40113	37634	34605	31113	26612	20858	14119	13133
C45	0	0	0	0	0	0	0	0	0
C90	42047	39699	36803	33668	30082	25468	19388	12567	11990

Glare Table

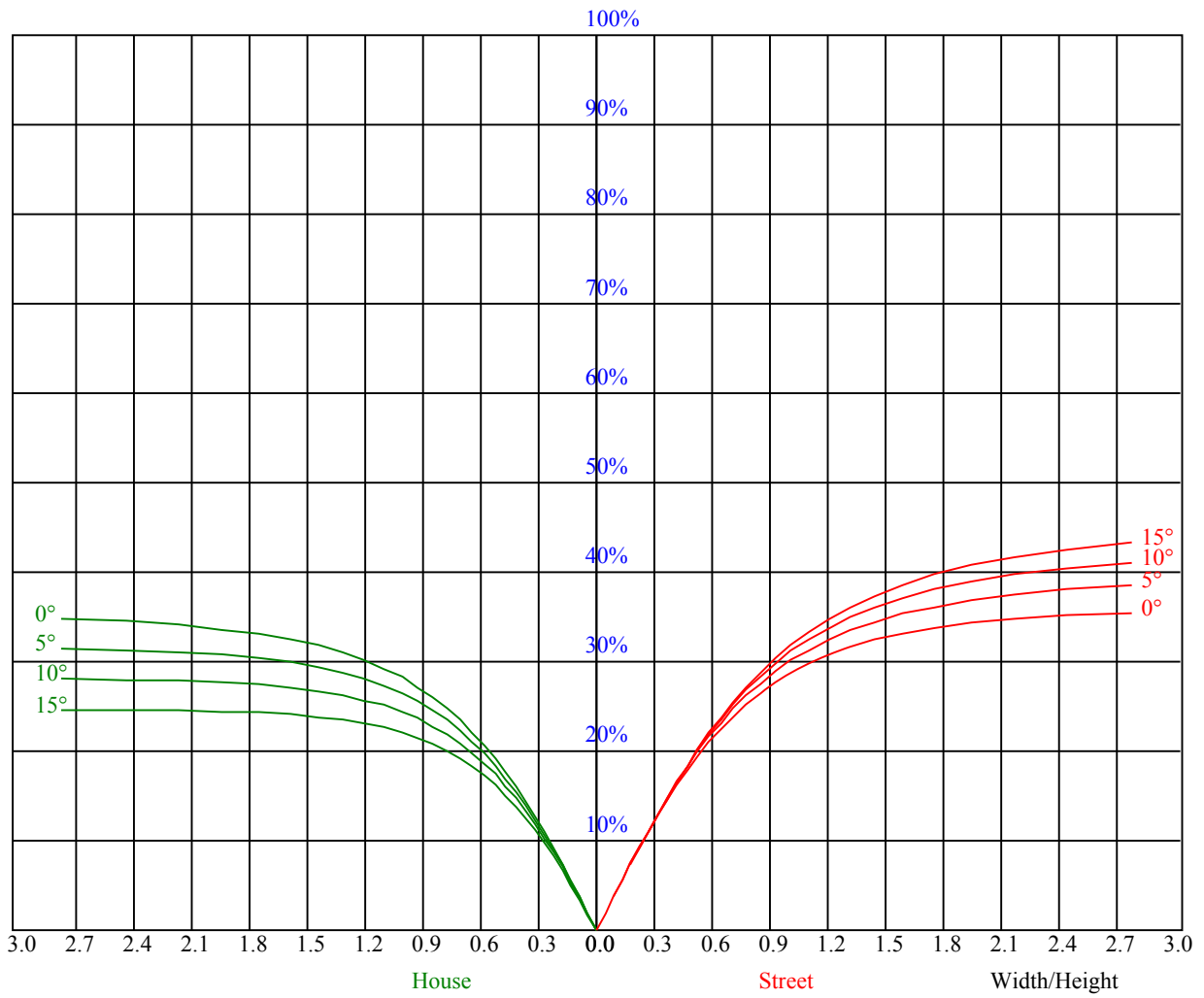
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



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	22.3	23.6	22.6	23.9	24.1	22.0	23.3	22.3	23.6	23.8
	3H	23.5	24.7	23.8	24.9	25.2	23.2	24.3	23.5	24.6	24.9
	4H	23.7	24.7	24.1	25.0	25.4	23.4	24.3	23.7	24.7	25.0
	6H	24.0	24.9	24.3	25.3	25.6	23.6	24.5	23.9	24.9	25.2
	8H	24.0	25.0	24.4	25.3	25.7	23.6	24.6	24.0	24.9	25.2
	12H	23.9	24.6	24.3	25.0	25.4	23.5	24.2	23.9	24.6	25.0
4H	2H	22.7	23.7	23.1	24.0	24.3	22.5	23.4	22.8	23.8	24.1
	3H	24.1	24.8	24.5	25.2	25.6	23.7	24.5	24.2	24.8	25.3
	4H	24.6	25.3	25.0	25.7	26.1	24.2	24.9	24.6	25.3	25.7
	6H	24.9	25.6	25.3	26.0	26.4	24.4	25.2	24.9	25.6	26.0
	8H	24.8	25.2	25.3	25.7	26.2	24.4	24.8	24.8	25.2	25.7
	12H	24.9	25.3	25.4	25.8	26.3	24.4	24.8	24.9	25.3	25.8
8H	4H	24.7	25.1	25.2	25.6	26.1	24.3	24.7	24.8	25.2	25.7
	6H	25.1	25.5	25.6	25.9	26.5	24.6	25.0	25.1	25.5	26.0
	8H	25.2	25.6	25.7	26.1	26.6	24.7	25.1	25.2	25.6	26.1
	12H	25.3	25.7	25.8	26.2	26.7	24.8	25.2	25.3	25.7	26.2
12H	4H	24.7	25.1	25.2	25.6	26.1	24.3	24.7	24.8	25.2	25.7
	6H	25.1	25.5	25.6	26.0	26.5	24.6	25.0	25.1	25.5	26.0
	8H	25.2	25.6	25.7	26.1	26.6	24.8	25.2	25.3	25.6	26.1
Variation with the observer position at spacings:											
S = 1.0H	0.4/-0.4					0.4/-0.4					
S = 1.5H	0.7/-0.9					0.7/-0.9					
S = 2.0H	1.3/-1.3					1.5/-1.3					
Standard tables:	BK3					BK3					
Uncorrected UGR	6.0					5.6					
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 RHOFC=20 CU															
0	0.86	0.86	0.86	0.84	0.84	0.84	0.80	0.80	0.80	0.77	0.77	0.77	0.74	0.74	0.74	0.72
1	0.76	0.73	0.71	0.74	0.72	0.70	0.71	0.69	0.67	0.69	0.67	0.65	0.66	0.65	0.64	0.62
2	0.67	0.63	0.59	0.66	0.62	0.58	0.63	0.60	0.57	0.61	0.58	0.56	0.59	0.56	0.54	0.53
3	0.59	0.54	0.50	0.58	0.53	0.49	0.56	0.52	0.48	0.54	0.51	0.48	0.53	0.49	0.47	0.45
4	0.53	0.47	0.43	0.52	0.47	0.42	0.50	0.46	0.42	0.49	0.45	0.41	0.47	0.44	0.41	0.39
5	0.48	0.42	0.37	0.47	0.41	0.37	0.45	0.40	0.36	0.44	0.40	0.36	0.43	0.39	0.36	0.34
6	0.43	0.37	0.33	0.42	0.37	0.32	0.41	0.36	0.32	0.40	0.35	0.32	0.39	0.35	0.32	0.30
7	0.39	0.33	0.29	0.39	0.33	0.29	0.38	0.32	0.29	0.37	0.32	0.28	0.36	0.31	0.28	0.27
8	0.36	0.30	0.26	0.35	0.30	0.26	0.34	0.29	0.26	0.34	0.29	0.26	0.33	0.29	0.25	0.24
9	0.33	0.27	0.23	0.33	0.27	0.23	0.32	0.27	0.23	0.31	0.26	0.23	0.30	0.26	0.23	0.22
10	0.31	0.25	0.21	0.30	0.25	0.21	0.29	0.25	0.21	0.29	0.24	0.21	0.28	0.24	0.21	0.20



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	721.97	722.29	722.08	721.71	720.86	719.86	718.54	716.69	714.47
30.0	730.69	731.22	731.54	731.38	730.80	730.06	728.95	727.20	725.46
60.0	729.00	729.16	728.95	728.42	727.36	726.30	724.51	722.76	720.33
90.0	726.04	726.25	725.88	725.14	724.24	723.13	721.39	719.65	717.16
120.0	725.35	724.82	724.35	723.03	721.65	719.96	718.01	715.58	713.09
150.0	724.24	723.98	723.40	722.23	720.97	719.33	717.43	715.05	712.25
180.0	721.97	721.44	720.39	719.12	717.48	715.79	713.57	710.71	708.02
210.0	730.69	730.00	728.63	727.20	725.30	722.23	720.65	717.53	714.68
240.0	729.00	728.47	727.73	726.36	724.88	723.13	720.86	718.43	715.36
270.0	726.04	725.67	724.72	723.77	722.39	720.60	718.32	716.00	713.41
300.0	725.35	725.30	724.98	724.40	723.34	722.02	720.39	718.38	716.32
330.0	724.24	724.14	723.82	723.13	722.23	721.02	719.17	717.16	714.57
360.0	721.97	722.29	722.08	721.71	720.86	719.86	718.54	716.69	714.47
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	712.19	709.29	706.38	702.73	699.35	695.02	690.42	685.87	680.38
30.0	723.29	720.81	717.90	715.05	711.03	707.01	702.63	698.50	693.91
60.0	717.85	714.62	711.66	707.86	703.68	699.83	695.12	690.73	685.19
90.0	714.78	711.77	708.23	705.00	700.99	696.39	691.63	687.14	682.38
120.0	709.92	706.17	702.84	698.56	694.59	689.73	684.76	679.95	674.19
150.0	709.23	706.22	702.73	698.61	694.22	690.10	685.08	679.53	674.61
180.0	704.58	700.83	697.24	692.85	688.67	683.65	678.53	673.56	667.80
210.0	710.87	706.64	702.63	698.08	693.06	688.30	682.38	676.94	670.76
240.0	712.51	708.70	704.69	700.78	696.13	691.42	685.87	680.06	673.82
270.0	710.08	706.33	702.42	698.77	693.96	689.52	684.23	679.11	673.19
300.0	713.51	710.34	707.28	703.42	699.24	695.12	690.15	685.45	679.74
330.0	711.93	709.02	705.37	702.05	697.76	693.06	688.62	683.44	678.47
360.0	712.19	709.29	706.38	702.73	699.35	695.02	690.42	685.87	680.38
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	675.41	669.65	663.52	657.01	651.15	644.65	636.93	629.85	621.23
30.0	688.62	682.86	677.42	671.13	664.73	658.44	650.78	643.75	635.50
60.0	679.27	673.08	666.95	659.50	652.68	644.96	637.78	629.32	620.55
90.0	676.73	670.49	664.04	658.12	651.94	644.38	637.19	629.16	620.60
120.0	668.80	662.35	655.53	649.25	641.53	634.45	626.15	618.54	609.87
150.0	668.64	662.88	655.69	648.24	641.26	633.12	625.62	616.95	608.87
180.0	662.19	655.59	649.46	641.74	633.92	625.62	617.96	609.29	601.36
210.0	664.63	657.81	650.57	643.01	635.87	627.36	619.70	610.87	602.73
240.0	668.22	661.14	654.53	647.08	640.00	631.80	623.08	615.15	606.01
270.0	666.79	660.03	653.90	647.29	639.47	631.38	623.82	615.26	606.33
300.0	673.93	668.59	662.19	656.49	649.46	643.06	635.29	627.10	618.75
330.0	672.55	667.06	660.45	653.21	645.92	638.94	630.80	623.29	614.68
360.0	675.41	669.65	663.52	657.01	651.15	644.65	636.93	629.85	621.23
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	612.57	603.79	595.65	586.40	578.00	568.33	559.50	549.19	538.73
30.0	626.73	619.07	609.92	601.68	592.11	583.44	573.61	563.41	552.89
60.0	612.67	603.47	594.86	585.08	575.04	565.90	555.17	544.33	534.82
90.0	611.67	603.58	594.28	585.93	576.04	567.22	557.07	546.82	537.46
120.0	600.73	591.53	582.86	572.82	563.83	554.69	543.86	532.97	521.82
150.0	599.72	590.42	580.75	571.87	561.56	552.37	541.90	532.33	521.45
180.0	593.27	583.92	574.14	563.99	554.85	544.44	535.08	524.30	513.31
210.0	593.38	583.76	575.04	564.57	555.22	544.49	533.60	523.67	512.41
240.0	597.66	588.20	579.48	569.49	559.55	549.25	539.79	528.74	518.86
270.0	598.14	588.99	580.32	570.23	560.24	551.10	540.53	531.17	520.34
300.0	610.77	602.73	593.59	584.13	575.62	565.63	555.27	545.65	534.92
330.0	606.65	597.50	588.04	579.48	569.44	559.29	549.99	539.52	529.96
360.0	612.57	603.79	595.65	586.40	578.00	568.33	559.50	549.19	538.73

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	529.16	518.33	508.50	497.19	485.67	474.04	463.68	452.00	441.32
30.0	543.43	532.49	522.50	510.98	500.57	488.68	476.79	466.16	454.17
60.0	523.88	513.99	502.63	491.00	480.43	468.28	457.55	445.29	434.40
90.0	526.63	516.85	505.33	493.86	482.18	471.34	459.24	448.35	436.30
120.0	511.83	500.62	490.32	478.69	466.48	455.54	443.28	432.34	419.97
150.0	510.19	498.93	488.68	478.32	466.48	454.38	443.44	431.17	420.39
180.0	503.58	492.27	480.86	470.34	459.45	447.08	434.66	422.56	411.35
210.0	500.99	490.58	480.22	468.44	456.28	444.18	433.18	420.87	409.72
240.0	507.60	497.50	485.88	474.25	463.89	452.05	441.48	429.69	417.64
270.0	510.61	499.30	488.04	476.79	466.32	454.43	443.59	431.54	420.60
300.0	524.94	513.84	502.42	492.27	480.80	470.44	458.87	448.51	436.57
330.0	519.02	507.81	497.77	486.35	476.10	464.37	452.58	441.90	429.80
360.0	529.16	518.33	508.50	497.19	485.67	474.04	463.68	452.00	441.32
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	430.59	418.17	405.59	393.07	381.76	369.07	357.81	345.24	332.60
30.0	443.38	431.12	418.65	406.12	394.92	381.92	370.39	358.77	345.98
60.0	422.24	409.82	397.40	386.46	373.93	362.36	350.78	337.68	324.89
90.0	425.57	413.15	400.63	389.31	376.74	365.27	352.26	340.74	327.74
120.0	408.82	396.19	383.71	371.24	359.93	346.87	335.09	321.98	310.46
150.0	408.18	395.82	384.72	372.30	359.77	348.41	335.62	324.09	311.25
180.0	398.99	387.83	375.36	364.32	351.79	338.95	327.32	314.32	302.79
210.0	397.08	385.93	373.30	360.56	348.99	336.09	324.62	311.73	298.78
240.0	406.65	394.34	383.18	370.76	359.56	346.82	334.19	321.87	310.83
270.0	408.29	395.92	384.87	372.24	360.93	348.25	335.67	324.41	311.57
300.0	424.30	411.94	400.84	388.20	376.95	364.26	352.95	340.37	327.58
330.0	418.97	406.70	395.71	383.24	370.71	358.13	346.98	334.35	322.98
360.0	430.59	418.17	405.59	393.07	381.76	369.07	357.81	345.24	332.60
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	321.61	308.98	296.13	284.67	273.20	260.46	247.67	234.83	223.57
30.0	333.08	320.29	308.87	295.98	284.45	271.35	259.82	246.93	233.98
60.0	312.31	300.89	288.15	276.79	264.16	251.58	240.59	228.06	216.80
90.0	315.00	302.16	290.85	279.49	266.75	253.80	240.96	229.59	216.86
120.0	297.56	284.56	273.04	260.09	248.67	235.94	223.41	212.26	199.52
150.0	298.51	287.36	274.94	263.84	251.16	239.90	227.37	214.90	202.48
180.0	289.95	277.27	266.06	253.32	240.64	229.59	217.33	206.34	193.92
210.0	287.26	274.36	261.52	250.05	237.20	225.89	213.21	200.42	189.27
240.0	298.51	287.36	274.78	262.10	250.89	238.21	227.11	214.64	203.59
270.0	300.26	287.47	274.84	263.74	251.16	239.90	227.16	214.58	203.54
300.0	316.54	303.80	290.90	279.38	266.43	254.96	242.12	229.22	217.97
330.0	310.35	299.15	286.52	273.88	262.78	250.26	239.05	226.37	213.90
360.0	321.61	308.98	296.13	284.67	273.20	260.46	247.67	234.83	223.57
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	211.20	200.26	188.21	177.32	165.06	152.90	142.12	130.28	119.98
30.0	222.51	209.77	198.46	185.94	173.52	161.31	150.58	138.53	128.12
60.0	204.28	193.18	180.81	168.39	156.29	145.61	133.88	123.73	112.52
90.0	205.76	193.07	181.97	169.66	157.66	145.66	135.09	124.68	113.21
120.0	186.78	175.63	163.16	152.32	140.27	128.43	118.18	107.03	97.51
150.0	191.43	180.44	168.18	156.18	144.34	133.88	122.14	111.89	100.79
180.0	181.39	170.45	158.29	147.57	135.73	125.37	114.00	103.12	92.49
210.0	176.79	165.69	153.64	142.97	131.18	119.66	108.35	98.73	88.00
240.0	191.43	179.33	167.49	157.13	145.29	134.77	123.25	113.05	102.06
270.0	191.17	180.07	167.91	155.92	143.97	133.56	122.04	112.00	100.95
300.0	205.49	194.55	182.45	171.77	159.72	147.62	136.94	125.21	115.17
330.0	202.85	190.48	178.22	167.33	156.66	144.71	132.87	121.14	110.89
360.0	211.20	200.26	188.21	177.32	165.06	152.90	142.12	130.28	119.98

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	108.51	97.30	87.74	77.27	67.49	59.14	50.26	42.76	35.09
30.0	116.43	106.50	95.66	85.09	76.00	66.12	57.82	49.21	41.12
60.0	102.75	91.70	80.60	71.09	60.68	51.90	42.71	34.67	29.02
90.0	102.16	92.55	82.08	71.83	63.16	53.80	46.14	38.11	31.24
120.0	86.94	77.69	67.65	58.14	50.37	42.07	34.83	29.23	24.31
150.0	90.85	80.13	69.61	60.52	50.84	42.71	34.62	28.96	24.26
180.0	83.19	74.15	64.16	54.76	46.09	38.85	31.66	26.69	22.57
210.0	78.86	68.97	59.57	51.69	43.45	36.79	30.28	25.69	21.83
240.0	91.01	81.34	70.82	61.84	52.17	43.29	36.05	29.54	24.58
270.0	91.33	80.86	70.88	62.26	53.12	45.56	37.63	31.55	26.16
300.0	104.17	93.29	82.82	73.99	64.59	56.61	48.31	41.23	34.14
330.0	99.57	89.80	79.07	69.77	59.67	50.10	42.02	34.14	28.80
360.0	108.51	97.30	87.74	77.27	67.49	59.14	50.26	42.76	35.09
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	28.91	24.63	21.67	18.87	16.38	13.90	11.63	8.98	6.18
30.0	34.78	28.38	23.78	20.56	18.02	15.54	13.21	10.73	8.35
60.0	24.26	21.93	19.61	17.07	14.75	12.58	10.25	8.09	5.81
90.0	26.37	22.09	19.61	17.18	14.96	12.58	10.15	7.82	5.71
120.0	20.98	18.66	16.38	14.06	11.79	9.35	7.19	5.18	3.22
150.0	21.83	19.61	16.91	14.64	12.47	9.99	7.88	5.76	3.86
180.0	20.19	17.97	15.59	13.37	10.94	8.56	6.40	4.39	3.07
210.0	19.24	16.86	14.48	12.16	9.67	7.56	5.34	3.44	3.22
240.0	22.36	19.66	17.34	14.90	12.58	10.31	8.09	6.03	3.75
270.0	22.52	20.24	17.60	15.06	12.74	10.41	8.03	5.50	3.59
300.0	28.17	23.94	20.88	18.13	15.70	13.32	10.99	8.40	5.50
330.0	24.74	22.30	19.71	17.39	14.96	12.58	9.88	7.14	4.28
360.0	28.91	24.63	21.67	18.87	16.38	13.90	11.63	8.98	6.18
C/ γ (°)	90.0								
0.0	3.44								
30.0	5.81								
60.0	4.70								
90.0	3.65								
120.0	3.17								
150.0	3.17								
180.0	3.12								
210.0	3.22								
240.0	3.28								
270.0	3.38								
300.0	3.33								
330.0	3.33								
360.0	3.44								