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NT

Client:

LumCAT: 12-0071-S2

Luminaire: 92.70.267.00+99.02.73.185

Report No: 2024429-B007

Ballast type: AC

Test No: 2024429-C007

Voltage(V): 17.480

LampCAT: OSRAM GWJTLPS1.EM 2835

Current(A): 0.403

Lamp flux(lm): 1096.9

Power (W): 7.044

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 672.38, Efficiency(%): 61.30% , Luminous Efficacy(lm/W): 95.45

Central intensity(cd): 769.395, Maximum intensity(cd): 784.494

Angle of maximum intensity: C=90.0 $\gamma=1.0$

Beam Angle(50%Imax): [C0/180]Total=50.5

[C90/270]Total=64.3

Field angle(10%Imax): [C0/180]Total=71.0

[C90/270]Total=84.0

Maximum s/h(1/2): C0_180=0.84 C90_270=1.01

Maximum s/h(1/4): C0_180=0.77 C90_270=0.94

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 61.36%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.497%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/4/29
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	775.657	0.000	0	0.00%	0.00%
1.0	775.248	0.742	0.742	0.07%	0.11%
2.0	773.825	2.223	2.965	0.20%	0.44%
3.0	771.550	3.696	6.661	0.34%	0.99%
4.0	768.199	5.154	11.816	0.47%	1.76%
5.0	763.953	6.591	18.407	0.60%	2.74%
6.0	758.203	7.999	26.406	0.73%	3.93%
7.0	751.912	9.373	35.779	0.85%	5.32%
8.0	744.545	10.710	46.489	0.98%	6.91%
9.0	736.224	12.001	58.49	1.09%	8.70%
10.0	727.255	13.244	71.734	1.21%	10.67%
11.0	717.504	14.436	86.17	1.32%	12.82%
12.0	706.279	15.564	101.734	1.42%	15.13%
13.0	695.211	16.632	118.366	1.52%	17.60%
14.0	682.745	17.638	136.004	1.61%	20.23%
15.0	670.763	18.582	154.586	1.69%	22.99%
16.0	657.204	19.458	174.044	1.77%	25.88%
17.0	643.737	20.259	194.303	1.85%	28.90%
18.0	629.128	20.987	215.29	1.91%	32.02%
19.0	614.497	21.637	236.926	1.97%	35.24%
20.0	598.608	22.203	259.13	2.02%	38.54%
21.0	582.730	22.684	281.814	2.07%	41.91%
22.0	564.044	23.045	304.859	2.10%	45.34%
23.0	545.053	23.272	328.13	2.12%	48.80%
24.0	524.643	23.387	351.518	2.13%	52.28%
25.0	501.399	23.330	374.848	2.13%	55.75%
26.0	477.397	23.105	397.952	2.11%	59.19%
27.0	451.962	22.737	420.689	2.07%	62.57%
28.0	424.884	22.200	442.889	2.02%	65.87%
29.0	395.795	21.471	464.361	1.96%	69.06%
30.0	368.355	20.632	484.992	1.88%	72.13%
31.0	339.248	19.692	504.684	1.80%	75.06%
32.0	311.321	18.638	523.322	1.70%	77.83%
33.0	280.849	17.446	540.768	1.59%	80.43%
34.0	250.805	16.089	556.857	1.47%	82.82%
35.0	220.908	14.650	571.507	1.34%	85.00%
36.0	192.148	13.152	584.659	1.20%	86.95%
37.0	164.649	11.637	596.295	1.06%	88.68%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	139.704	10.159	606.454	0.93%	90.20%
39.0	116.804	8.755	615.209	0.80%	91.50%
40.0	97.619	7.478	622.688	0.68%	92.61%
41.0	81.174	6.367	629.055	0.58%	93.56%
42.0	67.593	5.405	634.46	0.49%	94.36%
43.0	56.368	4.592	639.051	0.42%	95.04%
44.0	46.800	3.894	642.945	0.35%	95.62%
45.0	39.064	3.300	646.245	0.30%	96.11%
46.0	32.864	2.813	649.058	0.26%	96.53%
47.0	27.425	2.398	651.456	0.22%	96.89%
48.0	22.893	2.034	653.49	0.19%	97.19%
49.0	18.848	1.714	655.204	0.16%	97.45%
50.0	15.501	1.432	656.636	0.13%	97.66%
51.0	12.677	1.192	657.828	0.11%	97.84%
52.0	10.443	0.992	658.821	0.09%	97.98%
53.0	8.358	0.818	659.638	0.07%	98.11%
54.0	6.723	0.665	660.303	0.06%	98.20%
55.0	5.680	0.554	660.857	0.05%	98.29%
56.0	4.923	0.479	661.336	0.04%	98.36%
57.0	4.455	0.429	661.765	0.04%	98.42%
58.0	4.151	0.398	662.163	0.04%	98.48%
59.0	3.969	0.380	662.542	0.03%	98.54%
60.0	3.819	0.368	662.91	0.03%	98.59%
61.0	3.680	0.358	663.268	0.03%	98.65%
62.0	3.563	0.349	663.617	0.03%	98.70%
63.0	3.478	0.342	663.959	0.03%	98.75%
64.0	3.394	0.337	664.297	0.03%	98.80%
65.0	3.328	0.333	664.629	0.03%	98.85%
66.0	3.263	0.329	664.958	0.03%	98.90%
67.0	3.219	0.326	665.284	0.03%	98.95%
68.0	3.160	0.323	665.607	0.03%	98.99%
69.0	3.113	0.320	665.927	0.03%	99.04%
70.0	3.087	0.318	666.246	0.03%	99.09%
71.0	3.050	0.317	666.563	0.03%	99.14%
72.0	3.018	0.316	666.878	0.03%	99.18%
73.0	2.981	0.314	667.192	0.03%	99.23%
74.0	2.966	0.313	667.505	0.03%	99.28%
75.0	2.930	0.312	667.816	0.03%	99.32%

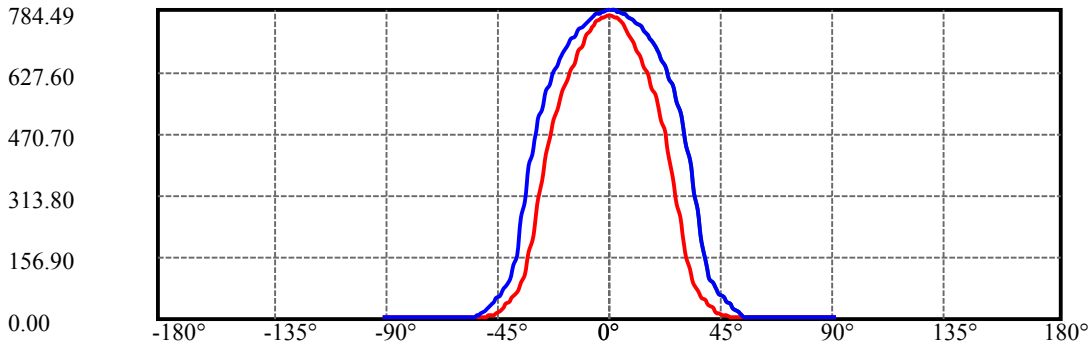
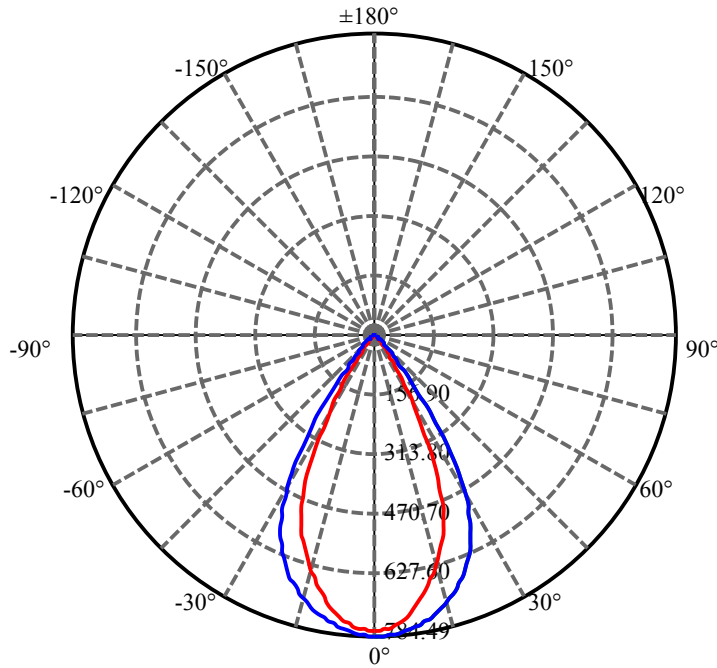
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.890	0.309	668.125	0.03%	99.37%
77.0	2.857	0.306	668.432	0.03%	99.41%
78.0	2.824	0.304	668.736	0.03%	99.46%
79.0	2.783	0.301	669.037	0.03%	99.50%
80.0	2.758	0.299	669.336	0.03%	99.55%
81.0	2.729	0.297	669.632	0.03%	99.59%
82.0	2.703	0.295	669.927	0.03%	99.64%
83.0	2.677	0.292	670.219	0.03%	99.68%
84.0	2.655	0.291	670.51	0.03%	99.72%
85.0	2.666	0.290	670.8	0.03%	99.77%
86.0	2.776	0.297	671.098	0.03%	99.81%
87.0	2.897	0.310	671.408	0.03%	99.86%
88.0	2.959	0.321	671.729	0.03%	99.90%
89.0	2.959	0.324	672.053	0.03%	99.95%
90.0	2.922	0.322	672.376	0.03%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	484.99	44.22%	72.13%
0-40	622.69	56.77%	92.61%
0-60	662.91	60.44%	98.59%
0-90	672.05	61.27%	99.95%
0-120	672.05	61.27%	99.95%
0-180	672.38	61.30%	100.00%
60-90	9.14	0.83%	1.36%
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%
0-32.84	537.90	49.04%	80.00%

ZONAL LUMEN SUMMARY

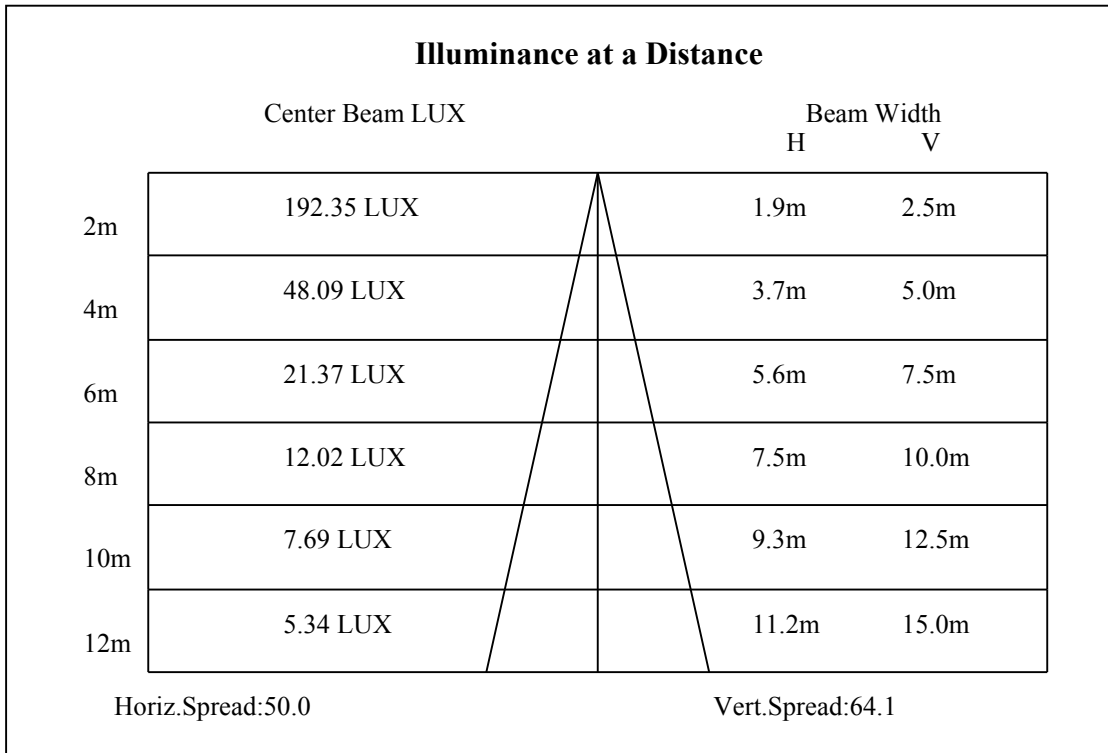
0-10	71.73
10-20	187.40
20-30	225.86
30-40	137.70
40-50	33.95
50-60	6.27
60-70	3.34
70-80	3.09
80-90	2.72
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

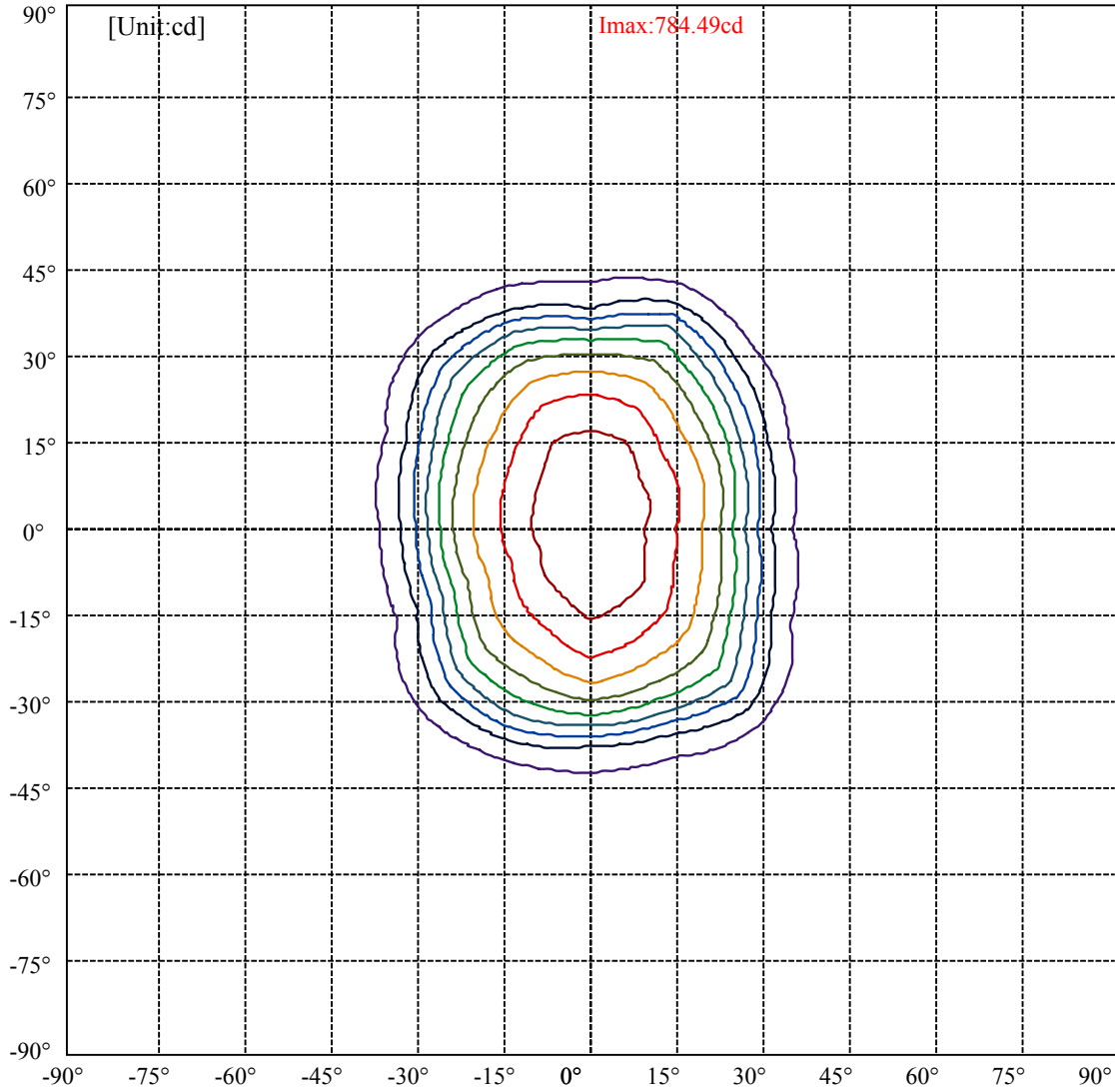


C90(Max): ———
C0/C180: ———
C90/C270: ———

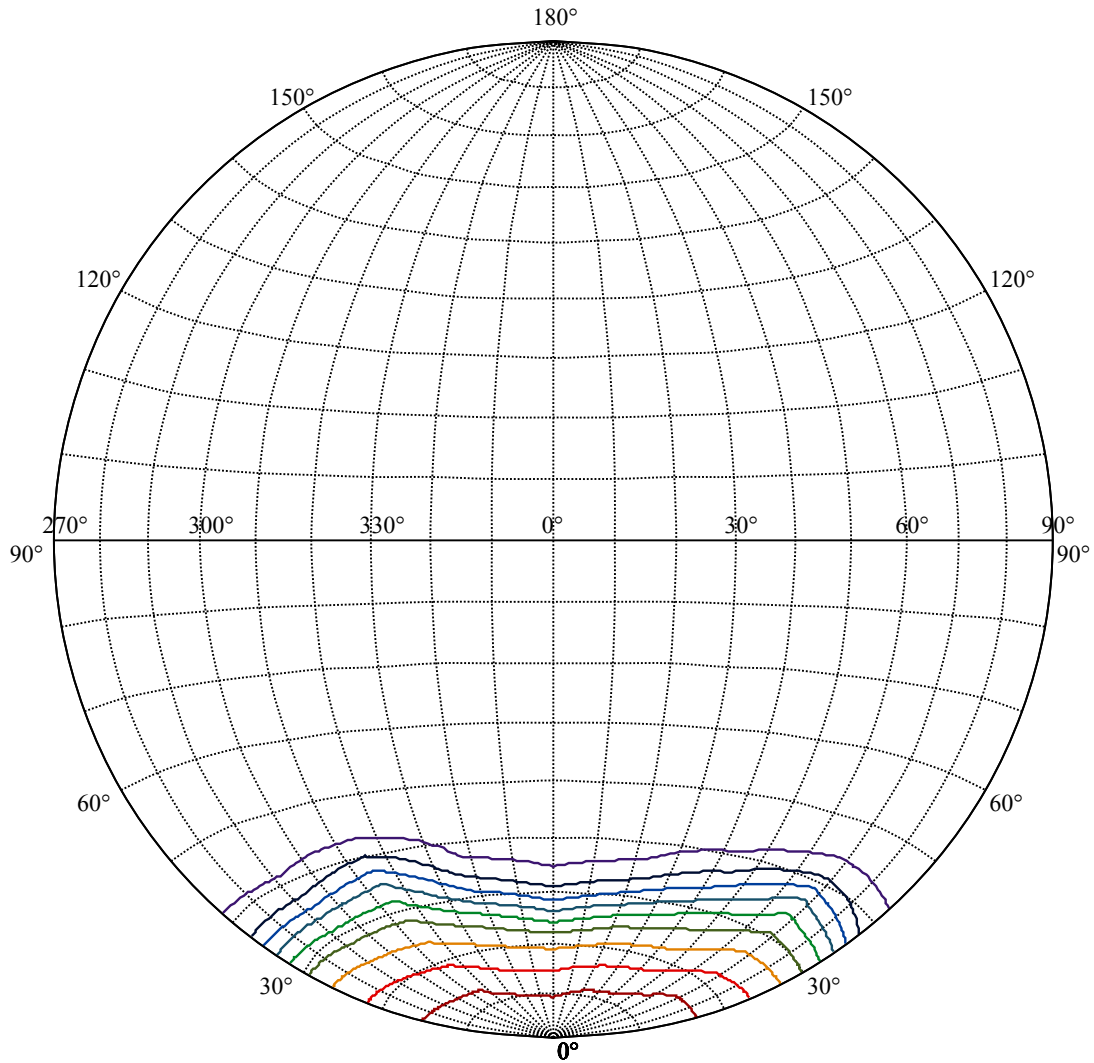
Field angle(10%Imax):C0/180Left:38.5 Right:33.0
:C90/270Left:44.6 Right:39.3

Beam Angle(50%Imax):C0/180Left:28.1 Right:22.6
:C90/270Left:34.8 Right:29.3





(10%Imax) 78.4494	—
(20%Imax) 156.899	—
(30%Imax) 235.348	—
(40%Imax) 313.798	—
(50%Imax) 392.247	—
(60%Imax) 470.696	—
(70%Imax) 549.146	—
(80%Imax) 627.595	—
(90%Imax) 706.045	—



House

[Unit:cd]

Road

Imax:784.49

(10%Imax) 78.4202

(20%Imax) 156.84

(30%Imax) 235.26

(40%Imax) 313.681

(50%Imax) 392.101

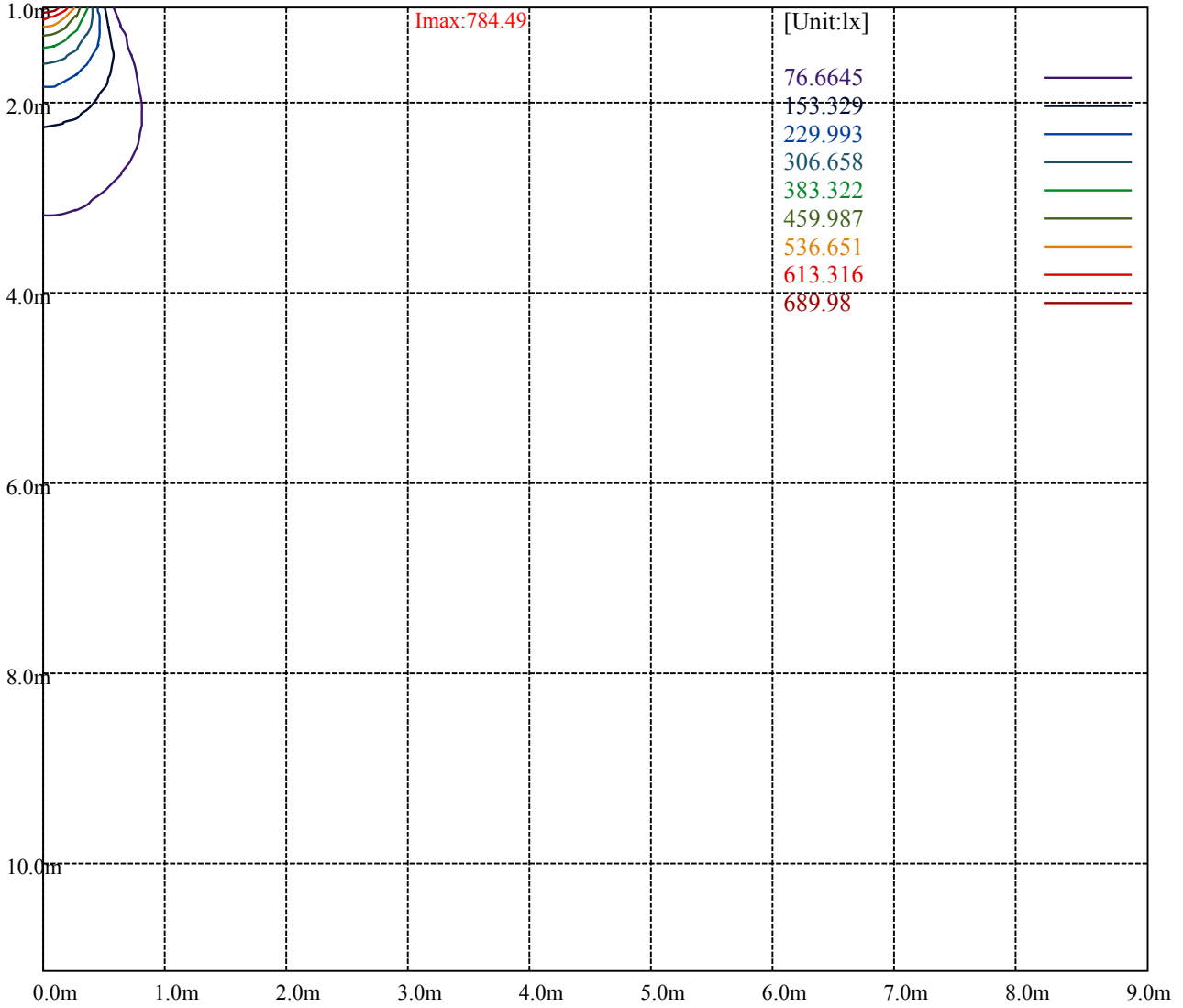
(60%Imax) 470.521

(70%Imax) 548.941

(80%Imax) 627.361

(90%Imax) 705.781





Luminance Table

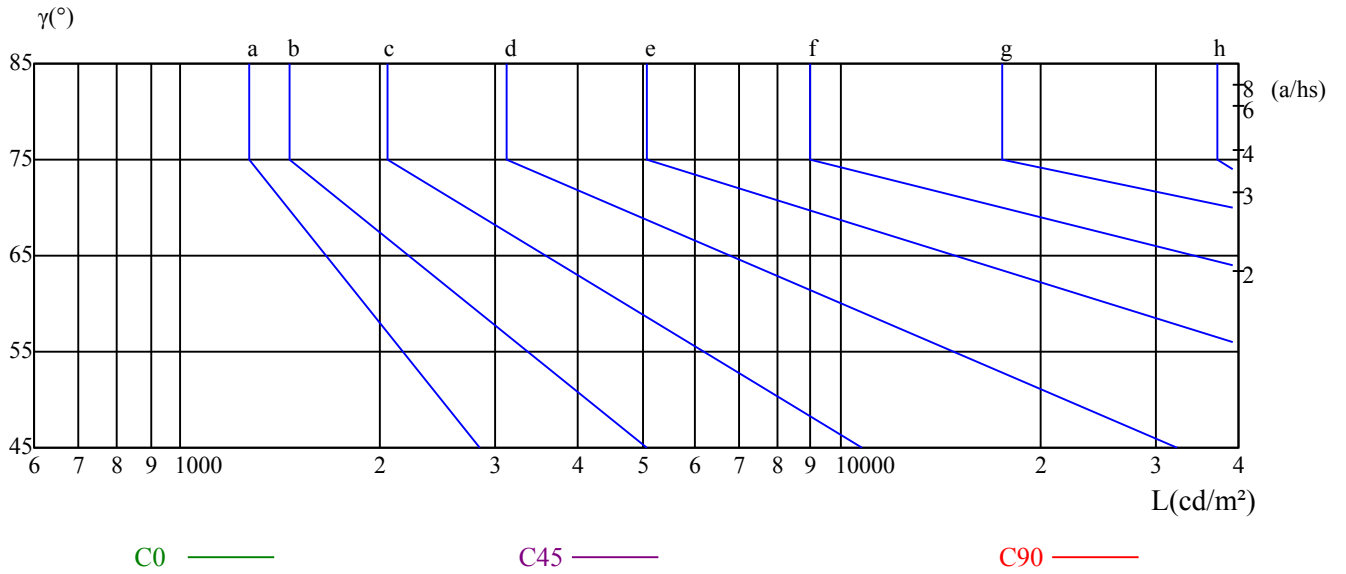
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

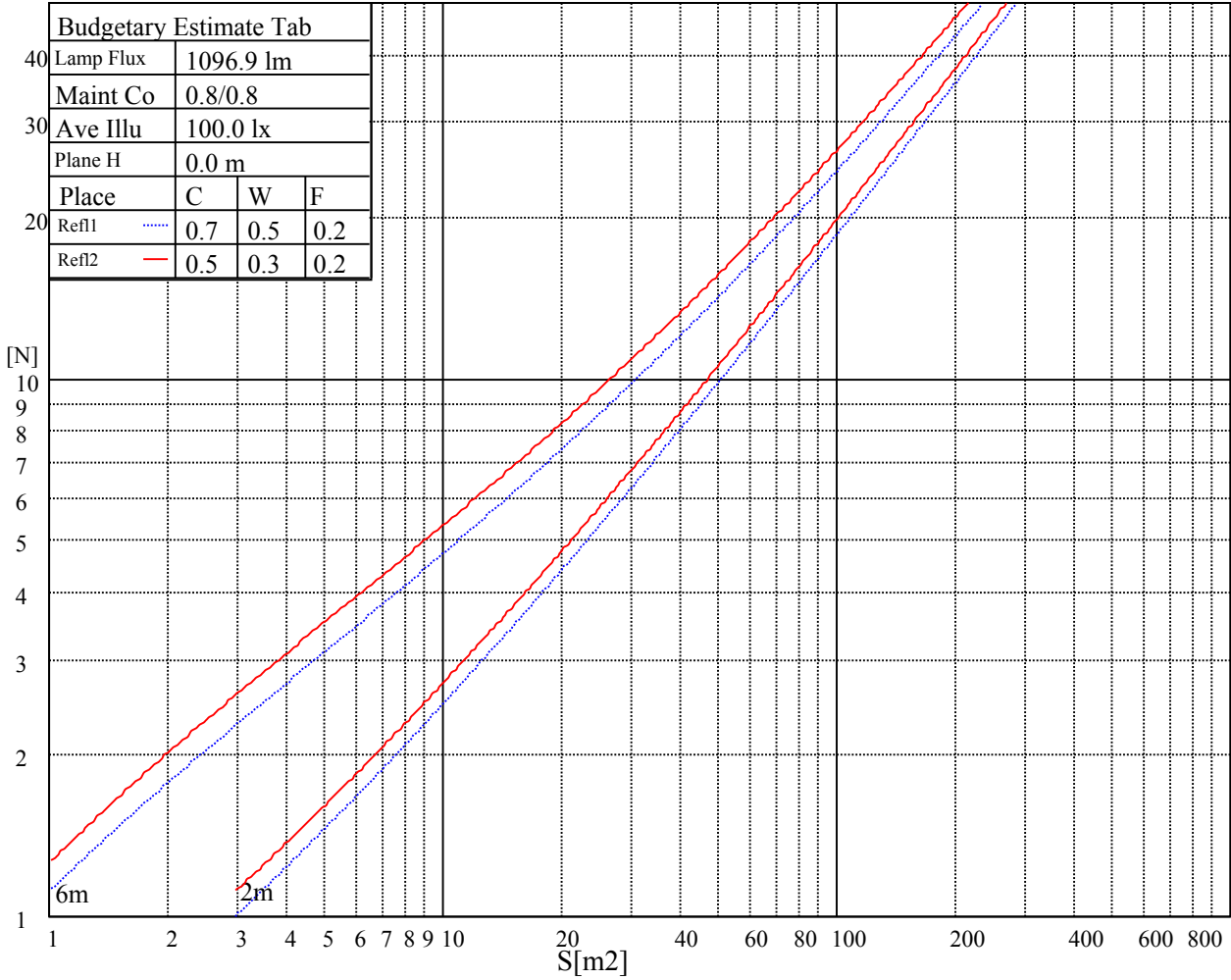
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

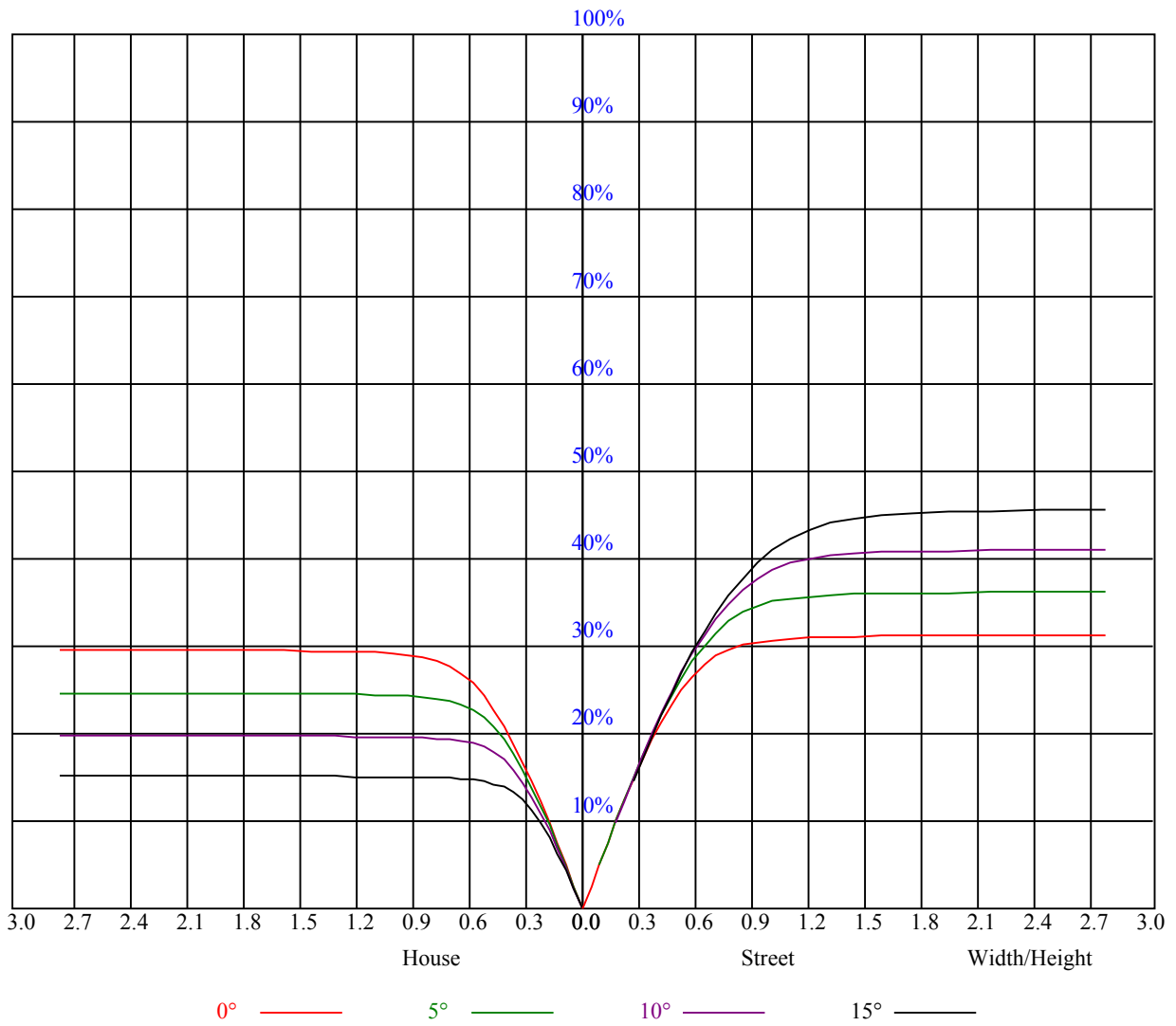
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

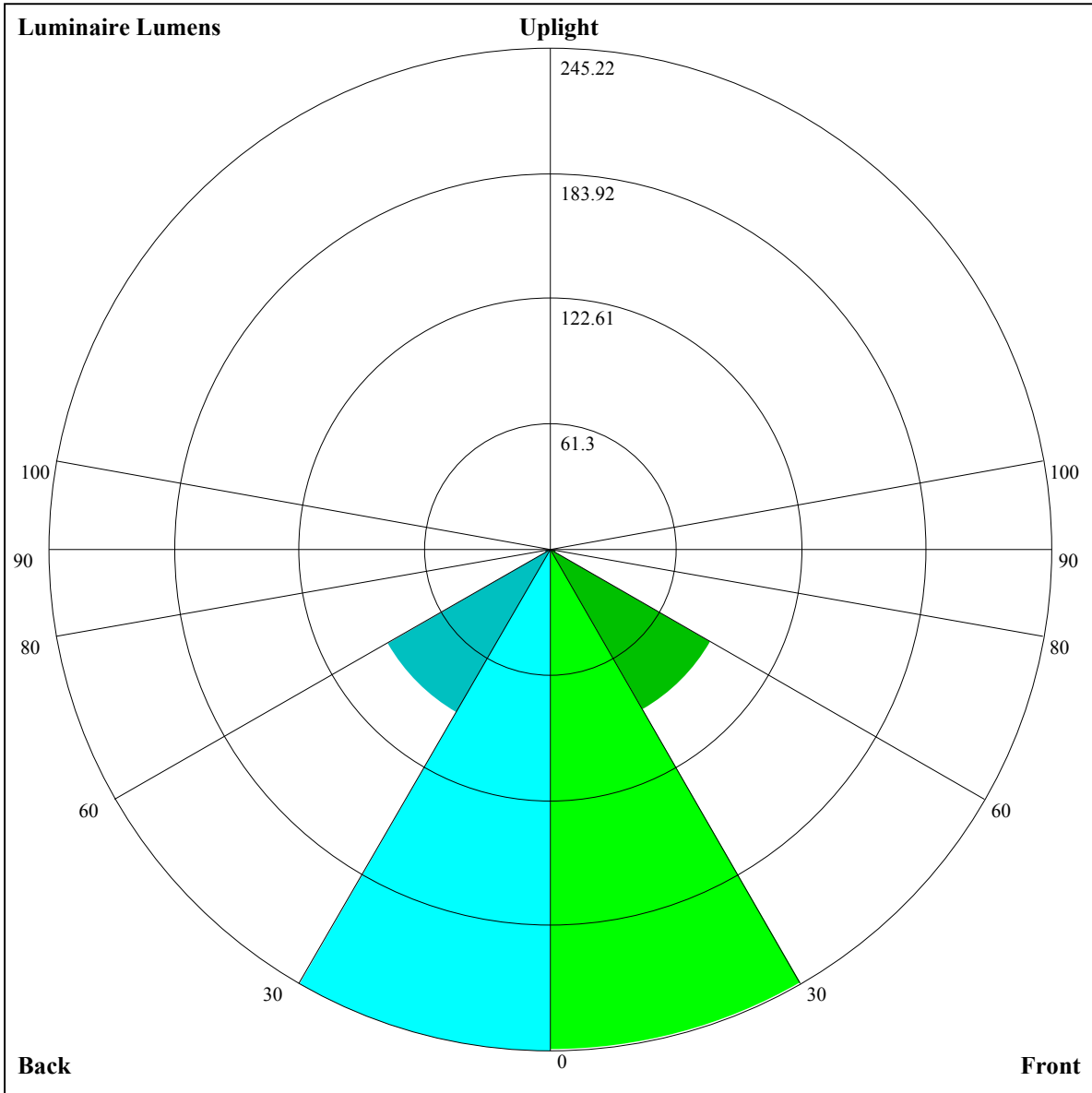
Luminance Limiting Curve





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	0.73	0.73	0.73	0.71	0.71	0.71	0.68	0.68	0.68	0.65	0.65	0.65	0.63	0.63	0.63	0.61
1	0.68	0.66	0.65	0.66	0.65	0.64	0.64	0.63	0.62	0.62	0.61	0.60	0.60	0.59	0.58	0.57
2	0.63	0.60	0.58	0.62	0.60	0.58	0.60	0.58	0.56	0.58	0.57	0.55	0.56	0.55	0.54	0.53
3	0.59	0.56	0.53	0.58	0.55	0.53	0.56	0.54	0.52	0.55	0.53	0.51	0.53	0.52	0.50	0.49
4	0.55	0.52	0.49	0.54	0.51	0.49	0.53	0.50	0.48	0.52	0.49	0.47	0.51	0.49	0.47	0.46
5	0.51	0.48	0.45	0.51	0.48	0.45	0.50	0.47	0.45	0.49	0.46	0.44	0.48	0.46	0.44	0.43
6	0.48	0.45	0.42	0.48	0.44	0.42	0.47	0.44	0.42	0.46	0.43	0.41	0.45	0.43	0.41	0.40
7	0.45	0.42	0.39	0.45	0.42	0.39	0.44	0.41	0.39	0.44	0.41	0.39	0.43	0.40	0.38	0.38
8	0.43	0.39	0.37	0.43	0.39	0.37	0.42	0.39	0.36	0.41	0.38	0.36	0.41	0.38	0.36	0.35
9	0.40	0.37	0.34	0.40	0.37	0.34	0.40	0.36	0.34	0.39	0.36	0.34	0.39	0.36	0.34	0.33
10	0.38	0.35	0.32	0.38	0.35	0.32	0.38	0.34	0.32	0.37	0.34	0.32	0.37	0.34	0.32	0.31





Luminaire Lumens:

FL=245.03,FM=90.46,FH=3.19,FVH=1.51

BL=245.22,BM=92.49,BH=3.23,BVH=1.52

UL=0,UH=0

BUG Rating:B1-U0-G0

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	769.40	768.81	767.41	763.66	758.63	751.90	742.59	733.29	722.87
22.5	771.44	772.56	772.50	771.03	767.46	762.14	755.94	748.21	737.62
45.0	773.26	772.85	772.15	770.27	767.41	763.07	758.51	751.96	744.93
67.5	781.69	782.86	782.91	782.97	782.09	779.99	777.94	775.31	769.69
90.0	784.14	784.49	783.50	781.80	779.81	776.89	773.67	770.04	767.05
112.5	779.52	779.70	779.87	778.93	778.35	776.01	773.08	770.57	765.53
135.0	777.59	776.65	774.78	772.38	767.93	763.54	757.40	749.67	743.12
157.5	768.22	767.64	765.71	763.13	759.15	754.88	747.10	740.89	730.89
180.0	769.40	768.69	767.23	764.65	760.73	754.30	747.68	740.37	731.41
202.5	771.44	769.40	765.24	762.02	756.81	750.73	740.95	732.06	721.70
225.0	773.26	772.50	770.80	767.87	764.25	759.86	753.83	746.22	738.26
247.5	781.69	780.05	777.06	773.84	769.75	765.12	759.15	753.54	746.45
270.0	784.14	782.74	781.22	778.99	775.48	772.79	769.22	763.66	758.63
292.5	779.52	778.52	776.77	775.07	771.91	768.87	763.31	758.92	753.36
315.0	777.59	777.24	776.48	774.08	771.15	767.87	763.95	757.22	751.19
337.5	768.22	769.28	767.58	764.07	760.27	755.29	746.92	738.67	730.01
360.0	769.40	768.81	767.41	763.66	758.63	751.90	742.59	733.29	722.87
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	708.65	696.89	683.43	665.93	651.71	636.78	622.15	606.23	586.28
22.5	729.54	719.53	708.94	694.31	681.03	667.27	652.82	633.80	618.82
45.0	737.21	726.26	716.02	705.72	694.31	678.63	666.28	652.76	639.18
67.5	765.30	759.51	753.36	745.23	737.09	728.61	719.12	706.78	696.48
90.0	762.49	756.58	751.78	745.99	739.37	730.42	722.58	713.62	704.26
112.5	761.20	756.29	750.38	742.77	736.04	728.66	720.29	709.41	699.93
135.0	736.56	729.60	718.83	709.35	698.47	684.71	673.13	661.13	645.62
157.5	721.52	711.69	700.81	685.77	673.89	660.89	648.20	631.46	617.18
180.0	718.77	707.71	693.08	680.15	667.22	648.66	634.68	618.99	603.31
202.5	710.58	695.36	683.13	666.86	653.46	639.65	621.04	606.00	590.26
225.0	729.78	720.94	708.71	697.47	682.26	668.50	657.32	640.82	627.65
247.5	738.73	728.43	720.00	711.58	699.99	690.86	677.98	667.04	654.63
270.0	752.13	746.34	740.66	733.81	725.91	718.25	710.99	701.45	689.51
292.5	745.34	738.67	731.18	721.47	713.04	704.61	694.14	683.95	672.89
315.0	744.76	737.09	726.15	716.08	706.02	691.21	679.86	664.29	650.59
337.5	717.02	705.20	693.61	677.98	663.59	646.21	631.63	617.53	603.19
360.0	708.65	696.89	683.43	665.93	651.71	636.78	622.15	606.23	586.28
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	569.07	550.87	525.65	503.41	478.07	440.67	407.02	362.55	326.73
22.5	602.96	583.59	567.08	548.88	524.65	502.77	478.54	443.48	411.30
45.0	621.57	606.41	587.57	571.47	555.38	534.54	517.05	499.20	480.29
67.5	685.24	670.26	658.09	641.41	627.65	612.85	598.33	578.38	561.35
90.0	692.61	682.02	671.55	659.67	643.81	629.76	610.86	593.36	574.40
112.5	689.75	678.92	665.05	653.11	637.31	623.79	609.16	588.74	571.06
135.0	632.98	620.57	603.13	588.56	573.58	554.09	537.82	521.67	505.87
157.5	601.96	583.24	567.73	550.99	530.45	513.01	488.55	466.48	441.55
180.0	583.82	567.90	550.93	532.32	506.10	484.16	459.28	420.60	386.19
202.5	569.72	553.27	535.89	517.51	492.06	469.70	445.01	416.97	377.47
225.0	614.14	600.15	582.94	568.78	554.44	538.29	520.15	504.00	487.90
247.5	638.30	625.02	610.39	596.46	576.91	561.70	544.96	527.81	505.52
270.0	679.27	669.15	657.38	641.47	627.54	613.49	594.12	577.79	557.72
292.5	661.42	645.56	631.98	618.47	603.66	583.41	566.32	544.55	525.82
315.0	637.25	624.44	606.76	592.42	577.32	563.28	544.03	527.52	510.43
337.5	585.99	570.59	555.61	538.76	515.76	495.33	473.10	449.28	414.75
360.0	569.07	550.87	525.65	503.41	478.07	440.67	407.02	362.55	326.73

Intensity data(cd)

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	291.44	257.73	217.29	185.57	155.49	128.22	101.60	85.74	73.68
22.5	376.30	340.48	297.65	265.40	234.21	203.66	166.32	138.64	115.00
45.0	454.49	432.60	409.13	383.26	347.97	318.36	288.40	251.76	223.79
67.5	543.91	526.29	503.29	484.62	465.37	441.08	420.13	398.71	369.63
90.0	548.59	525.06	500.19	466.48	436.81	404.98	370.04	320.94	278.04
112.5	552.51	528.69	508.68	488.02	466.01	437.28	412.35	384.73	354.76
135.0	485.80	468.94	451.44	432.66	407.14	385.25	355.23	329.25	301.45
157.5	412.76	380.81	339.20	306.42	274.47	244.16	208.34	180.42	147.36
180.0	351.37	306.54	271.90	231.34	200.03	170.36	143.15	113.53	94.57
202.5	343.59	309.17	267.16	235.85	198.92	170.53	143.85	120.38	95.86
225.0	465.90	446.99	421.60	398.36	371.33	345.81	310.64	277.51	251.06
247.5	487.55	468.77	444.42	424.17	403.22	375.01	350.73	324.21	286.99
270.0	532.32	509.97	479.01	450.97	419.20	388.88	342.94	298.11	257.97
292.5	505.81	478.95	455.83	430.90	397.66	367.87	335.39	299.28	249.25
315.0	494.69	473.92	455.77	432.66	412.00	391.46	365.30	338.03	314.50
337.5	384.38	343.23	310.17	276.99	238.13	208.22	179.20	151.63	120.61
360.0	291.44	257.73	217.29	185.57	155.49	128.22	101.60	85.74	73.68
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	64.14	54.48	47.40	39.33	33.47	27.80	21.24	16.62	12.82
22.5	92.11	78.42	65.43	57.18	49.86	41.90	36.11	30.49	25.34
45.0	196.99	165.27	140.40	117.69	93.69	77.89	64.96	54.60	44.24
67.5	343.06	314.44	274.06	237.48	199.56	154.97	124.48	100.31	82.46
90.0	234.68	193.89	150.52	124.54	102.82	90.77	81.40	71.87	65.02
112.5	312.28	274.70	234.32	184.52	149.93	122.72	98.32	84.68	74.73
135.0	266.39	238.60	210.62	183.23	151.63	127.29	104.46	83.86	62.62
157.5	123.25	102.65	82.40	70.29	60.86	53.26	44.89	38.86	33.30
180.0	80.12	69.23	60.51	51.50	44.83	38.51	31.13	25.63	19.37
202.5	80.88	69.41	60.40	51.09	44.36	38.16	31.02	25.63	20.66
225.0	220.92	189.73	164.04	140.34	119.09	93.34	76.08	60.63	50.21
247.5	253.17	216.18	178.79	136.88	110.14	90.07	75.67	62.74	55.01
270.0	211.85	163.04	134.78	112.54	98.14	84.39	76.20	67.07	60.22
292.5	207.40	169.48	137.94	108.79	92.47	80.70	69.82	62.50	54.19
315.0	286.70	250.59	221.74	193.53	158.95	131.79	106.75	84.51	61.98
337.5	100.42	84.27	71.92	59.93	52.09	45.24	38.98	31.89	26.63
360.0	64.14	54.48	47.40	39.33	33.47	27.80	21.24	16.62	12.82
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	10.01	8.08	7.32	6.73	6.32	5.79	5.44	5.15	4.86
22.5	19.37	15.04	11.59	9.07	7.72	6.73	6.20	5.74	5.38
45.0	37.45	31.66	26.51	20.89	16.85	13.23	9.71	7.67	6.26
67.5	67.07	58.05	50.68	44.30	37.16	31.72	25.28	20.78	17.03
90.0	58.41	51.68	43.25	36.69	30.20	24.23	18.32	15.04	11.00
112.5	65.02	58.41	52.26	46.29	38.98	33.07	27.33	22.18	17.09
135.0	49.74	40.03	31.19	25.98	21.65	17.26	14.46	12.06	9.42
157.5	26.92	22.18	17.73	13.69	9.77	7.67	6.67	5.97	5.62
180.0	15.04	11.59	8.84	7.72	7.08	6.55	6.03	5.62	5.33
202.5	15.16	11.59	8.54	7.37	6.73	6.20	5.79	5.33	5.03
225.0	41.43	33.83	28.27	23.12	18.08	14.46	11.53	9.07	6.79
247.5	48.34	40.97	35.41	28.91	24.05	19.61	15.51	11.47	9.13
270.0	53.55	45.00	38.27	31.66	25.34	18.84	15.16	11.94	8.19
292.5	47.87	41.84	35.93	28.62	23.17	18.38	14.63	11.41	8.13
315.0	48.98	39.56	31.25	26.22	21.13	17.79	14.81	12.17	9.31
337.5	20.66	16.33	11.76	9.01	7.32	6.50	5.97	5.50	5.15
360.0	10.01	8.08	7.32	6.73	6.32	5.79	5.44	5.15	4.86

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	4.62	4.45	4.21	4.10	3.98	3.80	3.75	3.63	3.51
22.5	5.15	4.80	4.56	4.39	4.16	4.04	3.92	3.80	3.63
45.0	5.33	4.92	4.56	4.33	4.10	3.98	3.80	3.63	3.51
67.5	12.52	9.89	7.90	6.20	4.80	4.33	4.04	3.86	3.69
90.0	6.91	5.44	4.86	4.39	4.21	3.98	3.80	3.69	3.57
112.5	13.87	10.36	7.08	5.33	4.56	4.27	4.04	3.86	3.75
135.0	7.55	6.09	4.86	4.33	4.10	3.98	3.80	3.63	3.57
157.5	5.15	4.92	4.62	4.45	4.21	4.10	3.92	3.80	3.69
180.0	5.03	4.74	4.56	4.33	4.16	4.04	3.92	3.75	3.63
202.5	4.80	4.56	4.33	4.16	4.04	3.92	3.80	3.69	3.57
225.0	5.62	5.03	4.68	4.39	4.21	3.98	3.86	3.75	3.57
247.5	7.26	5.62	4.51	4.16	3.98	3.75	3.63	3.51	3.39
270.0	5.68	4.92	4.51	4.16	3.98	3.80	3.69	3.57	3.45
292.5	5.85	4.68	4.33	4.16	3.86	3.75	3.63	3.51	3.45
315.0	7.43	5.91	4.86	4.27	4.04	3.92	3.75	3.63	3.51
337.5	4.80	4.56	4.33	4.16	4.04	3.86	3.75	3.57	3.51
360.0	4.62	4.45	4.21	4.10	3.98	3.80	3.75	3.63	3.51
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.39	3.34	3.28	3.22	3.16	3.10	3.04	3.04	3.04
22.5	3.57	3.45	3.39	3.34	3.28	3.22	3.16	3.16	3.10
45.0	3.45	3.34	3.28	3.22	3.16	3.10	3.04	3.04	2.98
67.5	3.57	3.45	3.39	3.34	3.28	3.22	3.16	3.10	3.10
90.0	3.45	3.39	3.34	3.28	3.22	3.16	3.16	3.10	3.10
112.5	3.63	3.57	3.51	3.45	3.39	3.34	3.28	3.22	3.16
135.0	3.51	3.39	3.34	3.22	3.22	3.16	3.10	3.10	3.10
157.5	3.63	3.51	3.45	3.34	3.28	3.22	3.16	3.10	3.04
180.0	3.57	3.51	3.39	3.34	3.22	3.22	3.22	3.16	3.10
202.5	3.45	3.39	3.34	3.28	3.28	3.16	3.16	3.10	3.10
225.0	3.51	3.39	3.34	3.28	3.22	3.10	3.10	3.04	3.04
247.5	3.34	3.28	3.16	3.10	3.10	3.04	2.98	2.98	2.93
270.0	3.39	3.34	3.28	3.28	3.28	3.22	3.16	3.16	3.10
292.5	3.39	3.34	3.28	3.22	3.16	3.16	3.04	3.04	2.98
315.0	3.39	3.34	3.28	3.16	3.16	3.10	3.04	3.04	2.98
337.5	3.39	3.28	3.22	3.16	3.10	3.04	2.98	2.98	2.93
360.0	3.39	3.34	3.28	3.22	3.16	3.10	3.04	3.04	3.04
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.98	2.93	2.93	2.93	2.87	2.87	2.87	2.81	2.81
22.5	3.04	3.04	2.98	2.93	2.93	2.87	2.87	2.87	2.81
45.0	2.98	2.93	2.93	2.93	2.87	2.87	2.81	2.81	2.75
67.5	3.04	2.98	2.98	2.93	2.87	2.87	2.81	2.75	2.75
90.0	3.04	2.98	2.98	2.87	2.81	2.69	2.69	2.63	2.52
112.5	3.10	3.04	3.04	2.98	2.93	2.81	2.81	2.75	2.75
135.0	3.04	3.04	3.04	2.98	2.98	2.93	2.87	2.81	2.81
157.5	3.04	2.98	2.98	2.98	2.93	2.93	2.93	2.87	2.87
180.0	3.04	3.04	2.98	2.98	2.93	2.93	2.93	2.87	2.87
202.5	3.04	2.98	2.98	2.93	2.93	2.93	2.87	2.87	2.87
225.0	3.04	2.98	2.98	2.98	2.93	2.93	2.87	2.81	2.81
247.5	2.93	2.93	2.93	2.87	2.81	2.81	2.75	2.69	2.69
270.0	3.10	3.10	3.04	2.98	2.93	2.81	2.75	2.63	2.57
292.5	2.93	2.93	2.87	2.87	2.81	2.81	2.75	2.75	2.69
315.0	2.98	2.93	2.93	2.93	2.87	2.87	2.87	2.81	2.81
337.5	2.93	2.87	2.87	2.81	2.87	2.81	2.75	2.81	2.75
360.0	2.98	2.93	2.93	2.93	2.87	2.87	2.87	2.81	2.81

Intensity data(cd)

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.81	2.75	2.81	2.75	2.75	2.75	2.69	2.69	2.69
22.5	2.81	2.81	2.81	2.75	2.75	2.75	2.75	2.87	2.98
45.0	2.69	2.69	2.69	2.69	2.75	3.10	3.39	3.51	3.45
67.5	2.69	2.69	2.63	2.57	2.69	2.98	3.45	3.51	3.51
90.0	2.52	2.52	2.52	2.52	2.75	3.45	3.51	3.51	3.39
112.5	2.75	2.69	2.57	2.57	2.52	2.63	3.28	3.34	3.39
135.0	2.75	2.69	2.69	2.69	2.63	2.81	3.45	3.45	3.45
157.5	2.87	2.75	2.75	2.75	2.75	2.69	2.63	3.10	3.28
180.0	2.87	2.87	2.81	2.81	2.81	2.81	2.75	2.69	2.69
202.5	2.81	2.81	2.81	2.75	2.75	2.75	2.69	2.69	2.69
225.0	2.75	2.75	2.69	2.69	2.63	2.63	2.63	2.69	2.69
247.5	2.63	2.63	2.57	2.57	2.52	2.57	2.57	2.63	2.57
270.0	2.52	2.52	2.52	2.52	2.52	2.52	2.63	2.63	2.63
292.5	2.69	2.63	2.57	2.52	2.57	2.63	2.63	2.63	2.63
315.0	2.75	2.69	2.69	2.63	2.63	2.63	2.63	2.69	2.63
337.5	2.75	2.75	2.69	2.69	2.63	2.69	2.63	2.69	2.63
360.0	2.81	2.75	2.81	2.75	2.75	2.75	2.69	2.69	2.69

C/γ(°)	90.0
0.0	2.69
22.5	2.98
45.0	3.39
67.5	3.34
90.0	3.34
112.5	3.34
135.0	3.34
157.5	3.28
180.0	2.63
202.5	2.69
225.0	2.63
247.5	2.57
270.0	2.63
292.5	2.63
315.0	2.63
337.5	2.63
360.0	2.69