



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NT

Client:

LumCAT: 1-1377-L

Luminaire: 92.70.410.00

Report No: 20231106-B008

Ballast type: AC

Test No: 20231106-C008

Voltage(V): 35.110

LampCAT: Fortimo_SLM_C_1203

Current(A): 0.246

Lamp flux(lm): 1385.0

Power (W): 8.707

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1295.21, Efficiency(%): 93.52% , Luminous Efficacy(lm/W): 148.76

Central intensity(cd): 6216.348, Maximum intensity(cd): 6216.348

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=19.4

[C90/270]Total=19.4

Field angle(10%Imax): [C0/180]Total=50.0

[C90/270]Total=50.0

Maximum s/h(1/2): C0_180=0.33 C90_270=0.33

Maximum s/h(1/4): C0_180=0.36 C90_270=0.36

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.52%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.082%

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/06
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6216.348	0.000	0	0.00%	0.00%
1.0	6175.178	5.929	5.929	0.43%	0.46%
2.0	6069.245	17.574	23.503	1.27%	1.81%
3.0	5897.511	28.621	52.124	2.07%	4.02%
4.0	5625.794	38.572	90.696	2.78%	7.00%
5.0	5252.918	46.800	137.496	3.38%	10.62%
6.0	4833.269	53.006	190.501	3.83%	14.71%
7.0	4383.244	57.207	247.708	4.13%	19.12%
8.0	3869.009	59.060	306.768	4.26%	23.68%
9.0	3394.421	58.866	365.634	4.25%	28.23%
10.0	2981.968	57.704	423.338	4.17%	32.68%
11.0	2596.222	55.738	479.076	4.02%	36.99%
12.0	2296.413	53.484	532.559	3.86%	41.12%
13.0	2004.631	51.043	583.602	3.69%	45.06%
14.0	1778.650	48.426	632.027	3.50%	48.80%
15.0	1597.851	46.354	678.382	3.35%	52.38%
16.0	1416.215	44.164	722.546	3.19%	55.79%
17.0	1229.826	41.206	763.752	2.98%	58.97%
18.0	1159.796	39.400	803.152	2.84%	62.01%
19.0	1074.718	38.876	842.028	2.81%	65.01%
20.0	982.007	37.644	879.671	2.72%	67.92%
21.0	900.167	36.142	915.813	2.61%	70.71%
22.0	827.315	34.714	950.527	2.51%	73.39%
23.0	757.846	33.261	983.788	2.40%	75.96%
24.0	693.920	31.741	1015.529	2.29%	78.41%
25.0	620.590	29.889	1045.418	2.16%	80.71%
26.0	552.221	27.684	1073.103	2.00%	82.85%
27.0	482.822	25.323	1098.425	1.83%	84.81%
28.0	416.155	22.760	1121.185	1.64%	86.56%
29.0	352.865	20.120	1141.305	1.45%	88.12%
30.0	285.763	17.243	1158.548	1.24%	89.45%
31.0	245.279	14.778	1173.326	1.07%	90.59%
32.0	222.715	13.407	1186.734	0.97%	91.62%
33.0	154.610	11.116	1197.85	0.80%	92.48%
34.0	112.236	8.076	1205.925	0.58%	93.11%
35.0	93.229	6.381	1212.306	0.46%	93.60%
36.0	81.820	5.574	1217.88	0.40%	94.03%
37.0	71.738	5.008	1222.888	0.36%	94.42%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	63.594	4.517	1227.405	0.33%	94.76%
39.0	56.426	4.097	1231.502	0.30%	95.08%
40.0	49.645	3.699	1235.201	0.27%	95.37%
41.0	43.736	3.325	1238.527	0.24%	95.62%
42.0	38.450	2.986	1241.513	0.22%	95.85%
43.0	34.153	2.689	1244.202	0.19%	96.06%
44.0	30.548	2.442	1246.644	0.18%	96.25%
45.0	27.407	2.227	1248.871	0.16%	96.42%
46.0	24.681	2.037	1250.908	0.15%	96.58%
47.0	22.321	1.869	1252.778	0.13%	96.72%
48.0	20.661	1.738	1254.515	0.13%	96.86%
49.0	19.180	1.636	1256.151	0.12%	96.98%
50.0	17.893	1.546	1257.697	0.11%	97.10%
51.0	16.807	1.468	1259.165	0.11%	97.22%
52.0	15.914	1.404	1260.569	0.10%	97.33%
53.0	15.188	1.353	1261.922	0.10%	97.43%
54.0	14.454	1.306	1263.229	0.09%	97.53%
55.0	13.852	1.264	1264.492	0.09%	97.63%
56.0	13.333	1.228	1265.721	0.09%	97.72%
57.0	12.911	1.200	1266.921	0.09%	97.82%
58.0	12.489	1.175	1268.095	0.08%	97.91%
59.0	12.102	1.150	1269.245	0.08%	98.00%
60.0	11.783	1.128	1270.373	0.08%	98.08%
61.0	11.465	1.109	1271.483	0.08%	98.17%
62.0	11.168	1.091	1272.573	0.08%	98.25%
63.0	10.835	1.070	1273.643	0.08%	98.33%
64.0	10.552	1.049	1274.693	0.08%	98.42%
65.0	10.282	1.031	1275.724	0.07%	98.50%
66.0	9.998	1.012	1276.736	0.07%	98.57%
67.0	9.701	0.991	1277.726	0.07%	98.65%
68.0	9.396	0.967	1278.694	0.07%	98.72%
69.0	9.106	0.944	1279.638	0.07%	98.80%
70.0	8.801	0.920	1280.557	0.07%	98.87%
71.0	8.518	0.895	1281.452	0.06%	98.94%
72.0	8.262	0.872	1282.325	0.06%	99.01%
73.0	7.992	0.850	1283.175	0.06%	99.07%
74.0	7.770	0.829	1284.003	0.06%	99.13%
75.0	7.535	0.809	1284.812	0.06%	99.20%

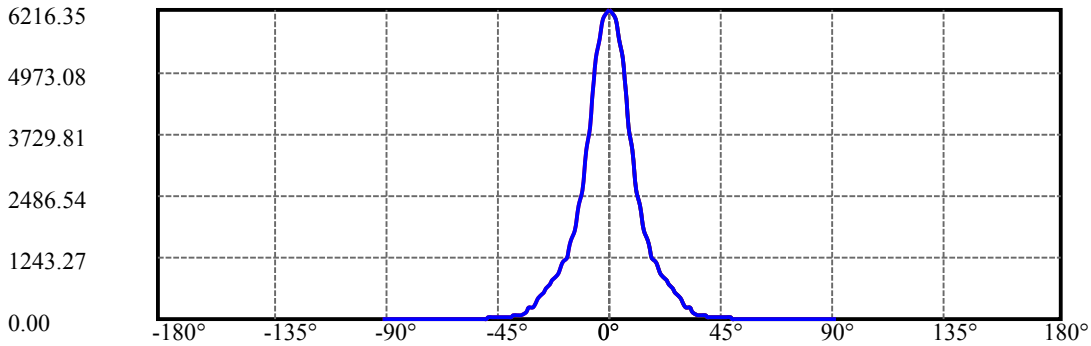
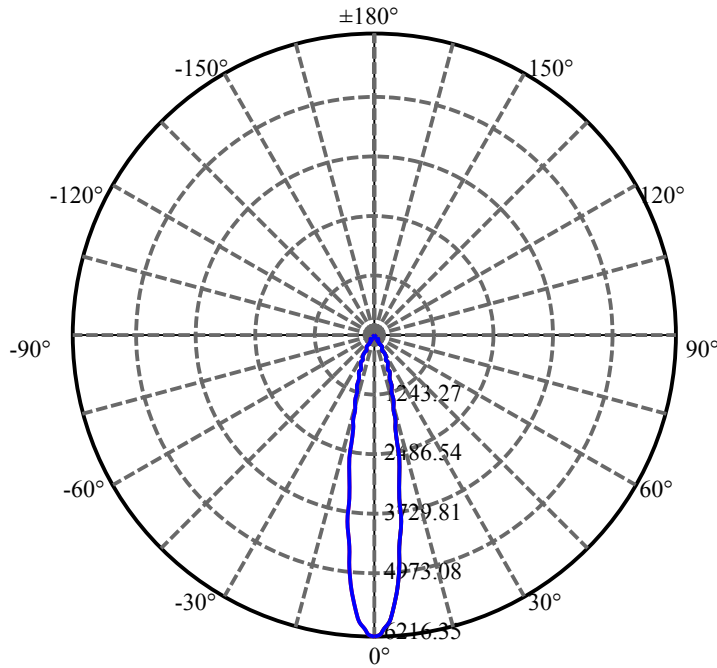
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.334	0.789	1285.601	0.06%	99.26%
77.0	7.154	0.772	1286.374	0.06%	99.32%
78.0	6.981	0.757	1287.131	0.05%	99.38%
79.0	6.788	0.740	1287.87	0.05%	99.43%
80.0	6.636	0.724	1288.594	0.05%	99.49%
81.0	6.511	0.711	1289.305	0.05%	99.54%
82.0	6.407	0.701	1290.006	0.05%	99.60%
83.0	6.269	0.689	1290.695	0.05%	99.65%
84.0	6.137	0.676	1291.37	0.05%	99.70%
85.0	6.013	0.663	1292.034	0.05%	99.75%
86.0	5.909	0.652	1292.685	0.05%	99.80%
87.0	5.840	0.643	1293.328	0.05%	99.85%
88.0	5.784	0.637	1293.965	0.05%	99.90%
89.0	5.653	0.627	1294.592	0.05%	99.95%
90.0	5.639	0.619	1295.211	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1158.55	83.65%	89.45%
0-40	1235.20	89.18%	95.37%
0-60	1270.37	91.72%	98.08%
0-90	1294.59	93.47%	99.95%
0-120	1294.59	93.47%	99.95%
0-180	1295.21	93.52%	100.00%
60-90	24.22	1.75%	1.87%
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%
0-24.69	1036.17	74.81%	80.00%

ZONAL LUMEN SUMMARY

0-10	423.34
10-20	456.33
20-30	278.88
30-40	76.65
40-50	22.50
50-60	12.68
60-70	10.18
70-80	8.04
80-90	6.00
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



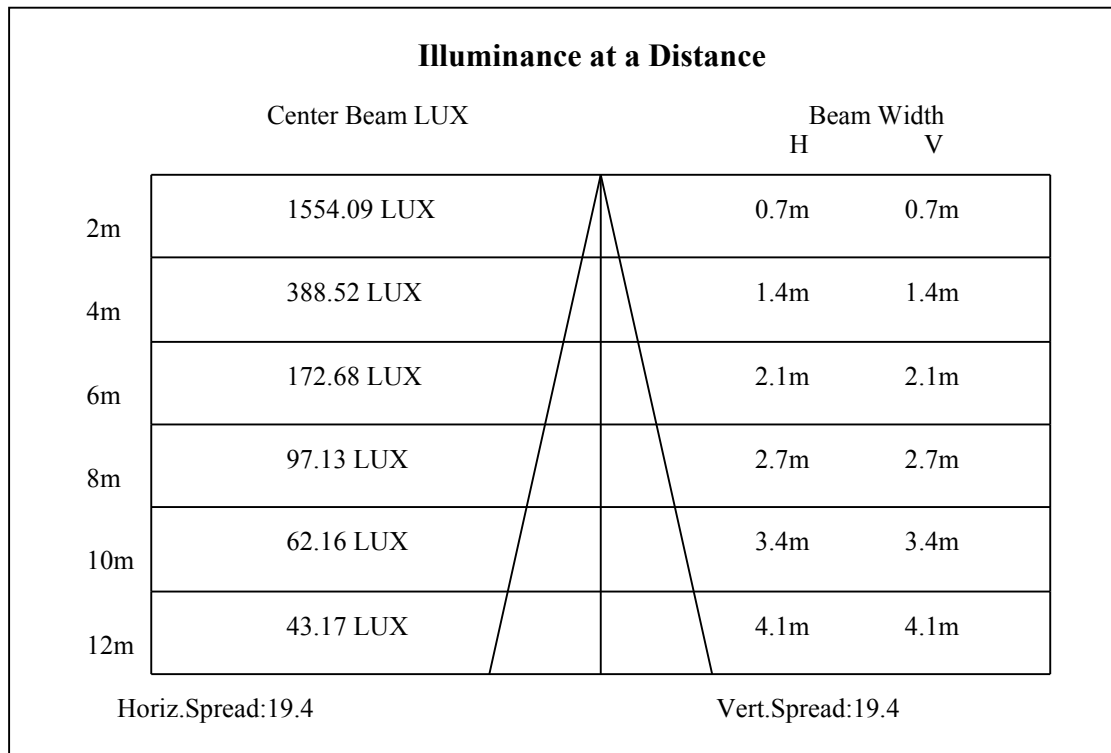
C0(Max): —————

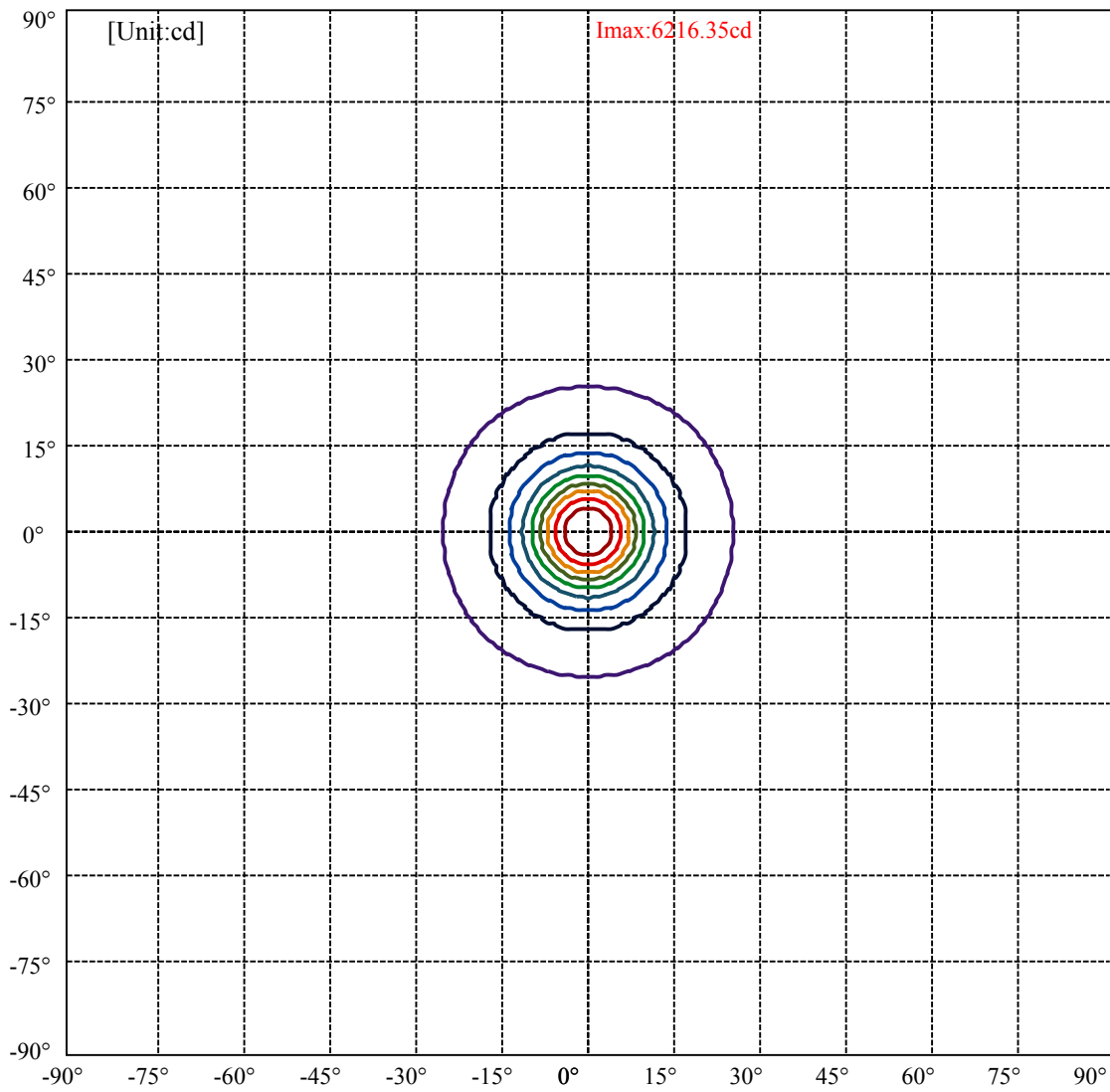
C0/C180: —————

C90/C270: —————

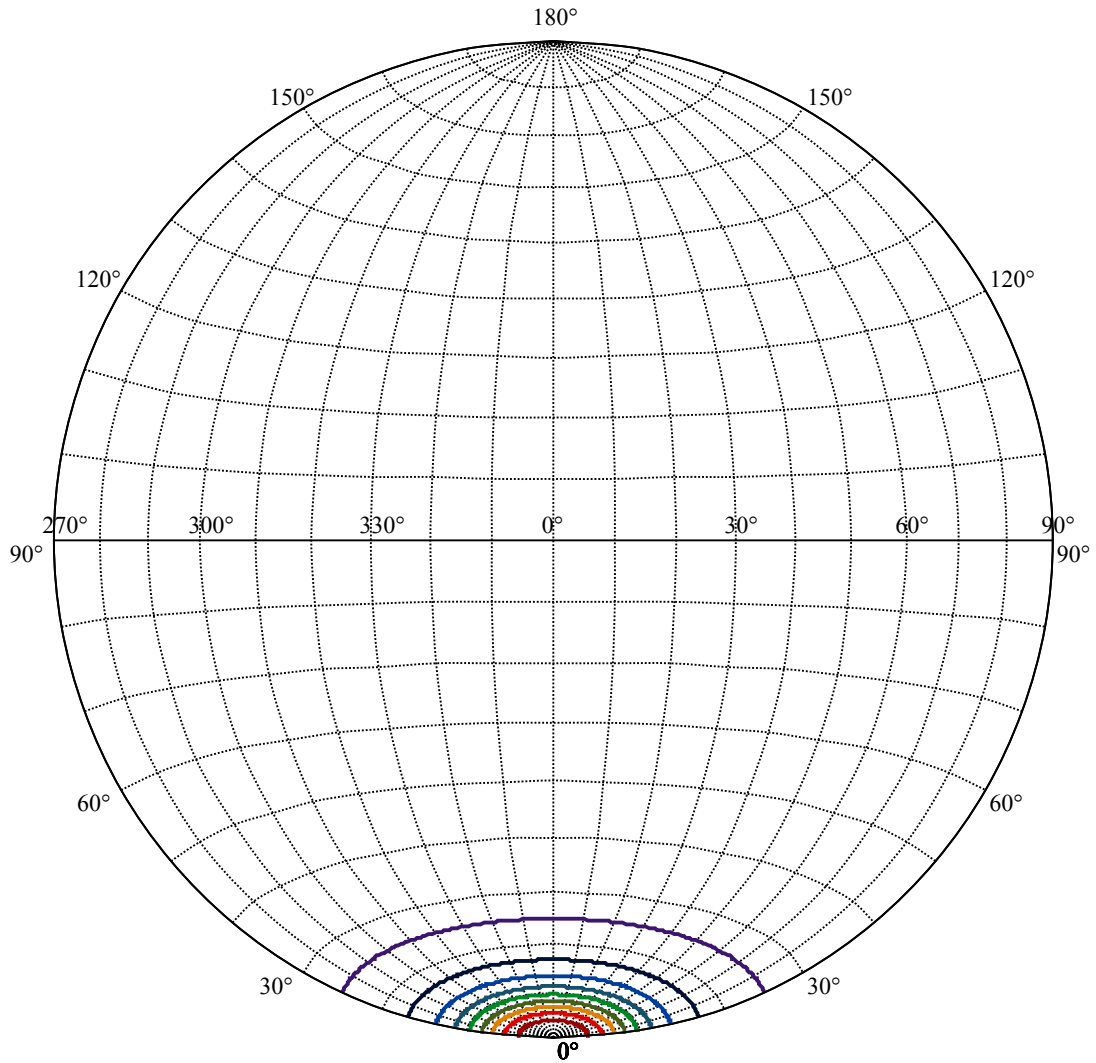
Field angle(10%Imax):C0/180Left:25.0 Right:25.0
:C90/270Left:25.0 Right:25.0

Beam Angle(50%Imax):C0/180Left:9.7 Right:9.7
:C90/270Left:9.7 Right:9.7





(10%Imax) 621.635	—
(20%Imax) 1243.27	—
(30%Imax) 1864.9	—
(40%Imax) 2486.54	—
(50%Imax) 3108.17	—
(60%Imax) 3729.81	—
(70%Imax) 4351.44	—
(80%Imax) 4973.08	—
(90%Imax) 5594.71	—



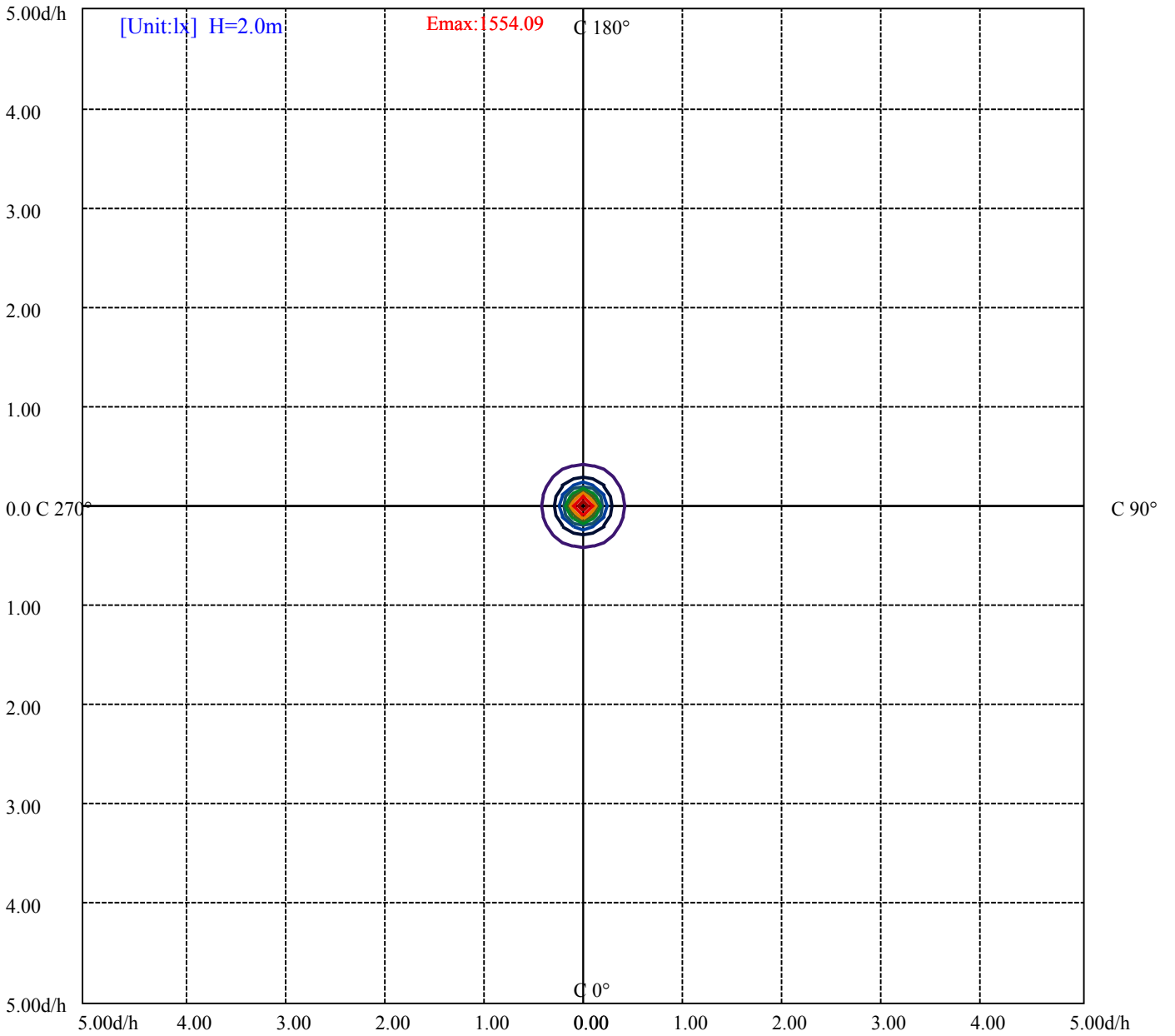
House

[Unit:cd]

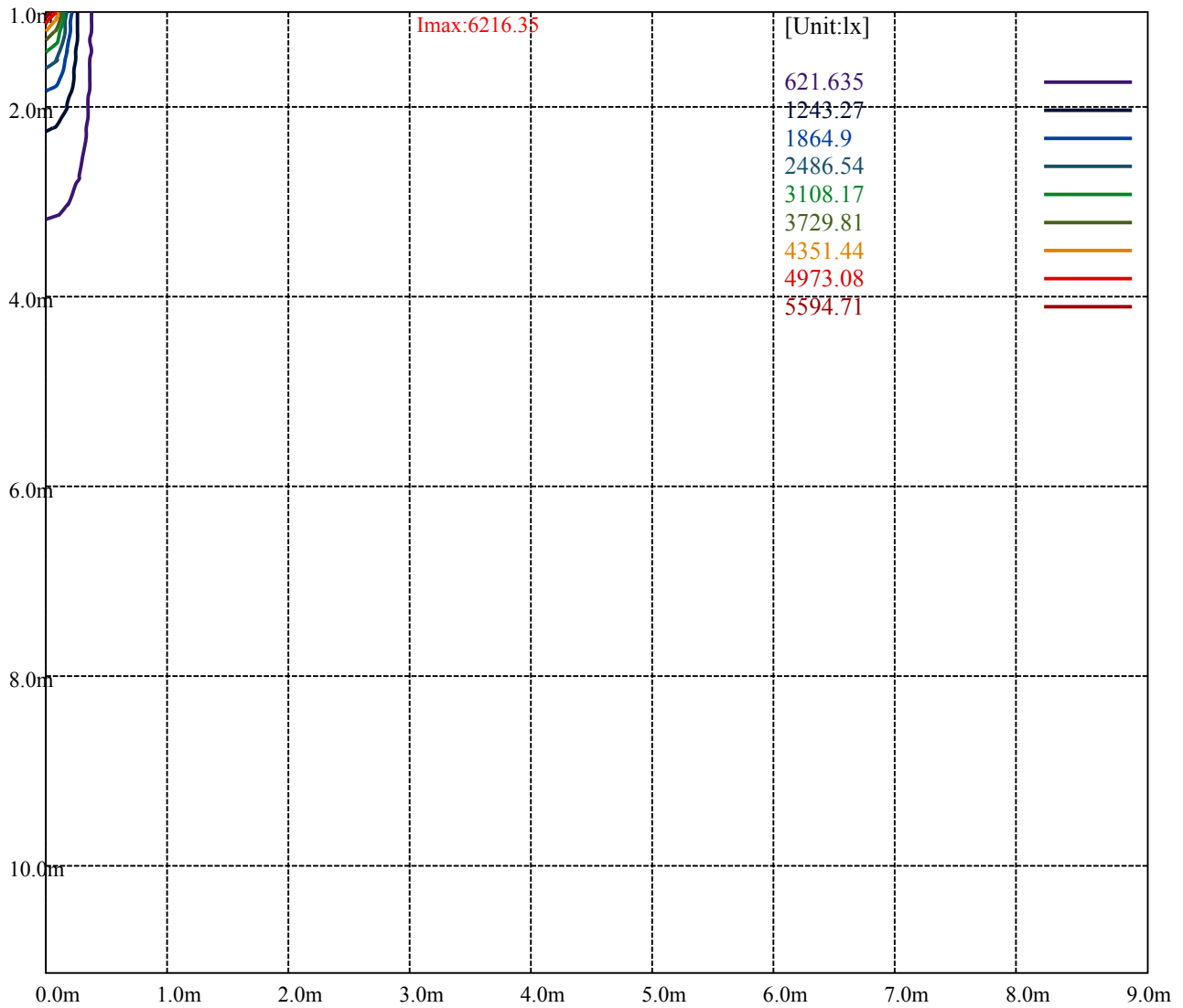
Road

Imax:6216.35

(10%Imax) 621.635	—
(20%Imax) 1243.27	—
(30%Imax) 1864.9	—
(40%Imax) 2486.54	—
(50%Imax) 3108.17	—
(60%Imax) 3729.81	—
(70%Imax) 4351.44	—
(80%Imax) 4973.08	—
(90%Imax) 5594.71	—



- (10%Emax) 155.4085
- (20%Emax) 310.8175
- (30%Emax) 466.225
- (40%Emax) 621.635
- (50%Emax) 777.0425
- (60%Emax) 932.4525
- (70%Emax) 1087.86
- (80%Emax) 1243.267
- (90%Emax) 1398.677



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

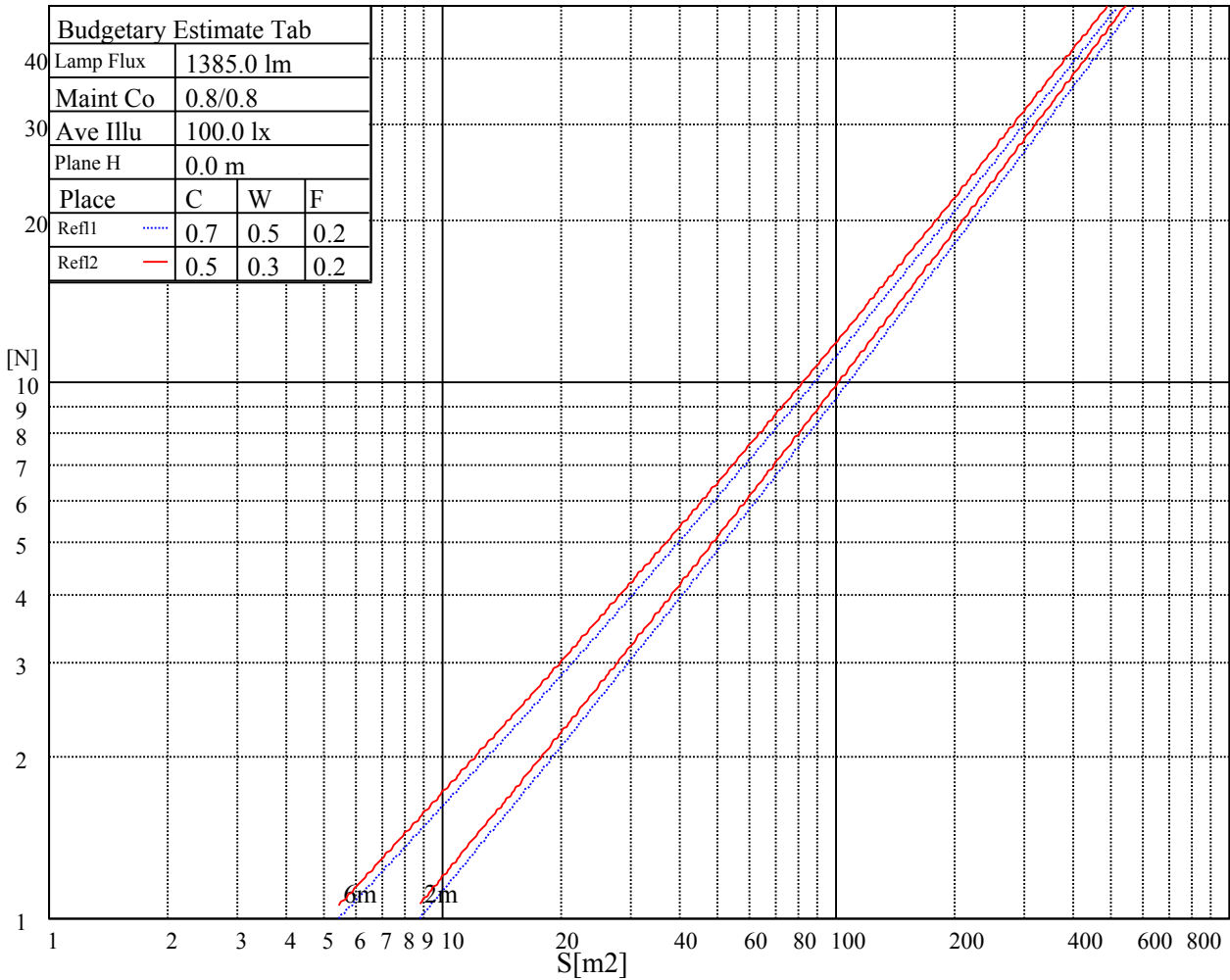
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

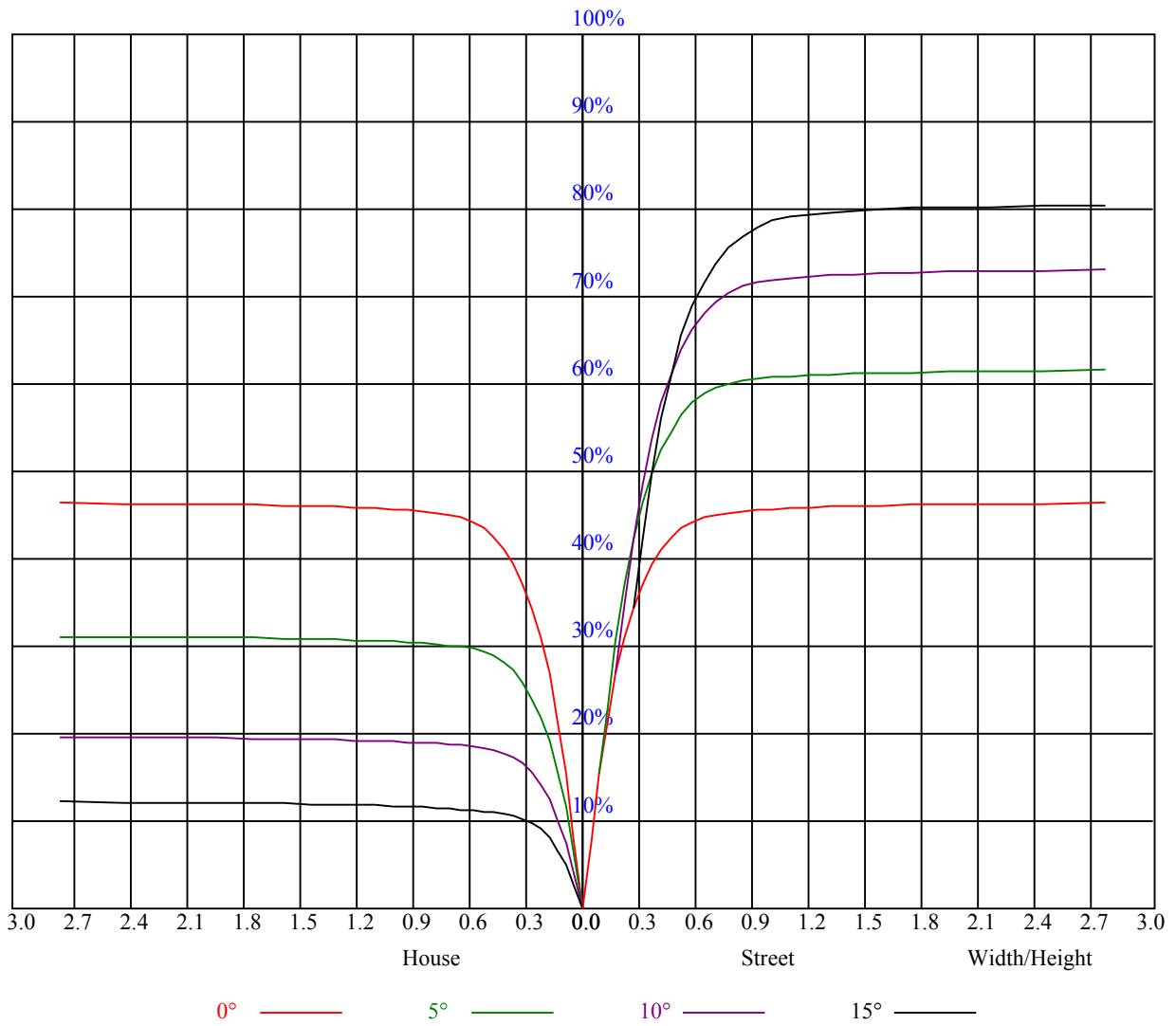


Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
Variation with the observer position at spacings:											
S = 1.0H		非数字/非数字					非数字/非数字				
S = 1.5H		非数字/非数字					非数字/非数字				
S = 2.0H		非数字/非数字					非数字/非数字				
Standard tables:		BK0					BK0				
Uncorrected UGR		负无穷大					负无穷大				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.94
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.89
2	0.99	0.96	0.93	0.98	0.95	0.92	0.95	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.87	0.85
3	0.94	0.90	0.87	0.93	0.90	0.87	0.91	0.88	0.85	0.88	0.86	0.84	0.86	0.84	0.83	0.82
4	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.84	0.81	0.85	0.83	0.80	0.84	0.81	0.80	0.78
5	0.86	0.82	0.79	0.85	0.81	0.78	0.84	0.80	0.78	0.82	0.79	0.77	0.81	0.79	0.76	0.75
6	0.83	0.79	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
7	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
8	0.77	0.73	0.70	0.77	0.72	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.68
9	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
10	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.64



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	6206.25	6097.20	5936.12	5693.67	5383.69	4871.12	4423.86	3957.23	3384.32
45.0	6221.19	6233.92	6137.05	5977.08	5760.65	5376.50	4975.74	4540.10	3963.87
90.0	6212.33	6099.41	5942.21	5701.97	5315.05	4921.49	4375.70	3922.91	3477.31
135.0	6225.62	6177.46	6073.95	5911.76	5605.66	5269.11	4772.03	4334.74	3885.82
180.0	6206.25	6230.60	6185.76	6081.70	5853.64	5605.66	5291.25	4804.69	4343.04
225.0	6221.19	6137.05	5999.22	5806.04	5535.36	5095.85	4680.15	4219.05	3766.26
270.0	6212.33	6227.83	6189.64	6081.15	5855.30	5595.70	5260.25	4853.96	4281.60
315.0	6225.62	6197.94	6090.00	5926.71	5696.99	5287.93	4887.17	4433.27	3849.84
360.0	6206.25	6097.20	5936.12	5693.67	5383.69	4871.12	4423.86	3957.23	3384.32
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2974.70	2603.83	2219.13	1966.16	1701.02	1531.63	1382.18	1090.96	1090.96
45.0	3514.95	3094.27	2716.75	2386.85	2046.98	1825.56	1636.81	1437.53	1307.45
90.0	3067.70	2616.56	2312.12	2058.05	1842.17	1622.97	1472.41	1337.34	1098.49
135.0	3345.57	2950.35	2606.60	2308.80	2002.69	1800.10	1626.84	1475.73	1320.18
180.0	3790.06	3363.28	2968.06	2622.65	2251.23	2008.23	1810.06	1637.36	1449.71
225.0	3229.88	2842.41	2510.84	2234.07	1943.46	1750.83	1546.58	1406.53	1095.72
270.0	3840.43	3402.03	2893.33	2549.03	2255.11	1955.09	1746.96	1534.40	1391.04
315.0	3392.07	2983.01	2542.94	2245.70	1994.39	1734.78	1560.97	1409.86	1085.04
360.0	2974.70	2603.83	2219.13	1966.16	1701.02	1531.63	1382.18	1090.96	1090.96
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1021.72	943.67	872.43	808.55	732.60	668.67	605.18	528.52	466.85
45.0	1169.62	1073.31	985.29	893.96	828.64	766.09	705.20	622.17	555.75
90.0	1098.49	1009.71	930.16	842.70	776.56	697.46	630.92	564.55	499.07
135.0	1212.24	1114.82	1008.54	934.37	864.07	784.91	720.70	636.57	567.37
180.0	1326.83	1215.57	1110.95	999.69	929.39	848.02	784.91	717.38	640.99
225.0	1095.72	1048.56	965.86	891.36	808.33	744.34	682.90	616.58	533.83
270.0	1268.70	1157.44	1032.34	952.08	881.23	813.14	738.42	674.76	613.87
315.0	1085.04	1034.67	950.48	878.63	797.70	740.13	683.12	604.18	540.03
360.0	1021.72	943.67	872.43	808.55	732.60	668.67	605.18	528.52	466.85
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	405.69	331.57	276.77	213.72	169.44	132.63	106.00	85.41	75.34
45.0	490.43	427.88	355.37	300.02	286.18	286.18	144.92	115.36	92.22
90.0	415.65	356.03	297.36	230.71	184.77	146.24	118.51	97.20	86.74
135.0	500.40	436.19	359.80	302.78	288.95	288.95	147.46	121.06	102.35
180.0	571.80	506.49	443.94	363.12	304.44	290.05	290.05	143.70	116.85
225.0	467.85	405.41	346.35	276.10	224.68	179.07	132.90	107.66	88.95
270.0	533.06	466.08	404.08	329.91	285.07	285.07	161.91	125.10	98.42
315.0	477.70	399.60	339.26	269.74	218.70	173.53	135.12	102.40	84.97
360.0	405.69	331.57	276.77	213.72	169.44	132.63	106.00	85.41	75.34
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	67.14	59.78	51.42	45.61	40.52	35.98	31.33	28.01	24.80
45.0	81.43	72.24	62.11	55.46	49.15	42.07	37.59	33.71	30.11
90.0	78.05	68.69	60.83	53.86	46.83	41.96	37.64	32.88	29.56
135.0	90.84	78.16	69.63	62.05	53.47	47.55	41.18	36.81	32.94
180.0	99.36	86.30	77.72	69.47	60.06	53.42	45.94	40.80	36.31
225.0	79.32	70.96	63.93	55.91	49.65	44.12	39.41	34.21	30.72
270.0	83.36	70.74	63.49	56.79	50.81	43.51	38.75	34.76	31.11
315.0	75.06	67.03	59.62	52.25	46.66	41.29	35.76	32.05	28.84
360.0	67.14	59.78	51.42	45.61	40.52	35.98	31.33	28.01	24.80

Intensity data(cd)

C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	22.64	20.81	18.99	17.77	16.77	15.72	15.00	14.39	13.84
45.0	27.12	24.08	22.03	20.37	18.65	17.49	16.61	15.61	14.89
90.0	26.79	24.41	22.09	20.54	19.26	18.16	16.94	16.16	15.44
135.0	29.56	26.07	23.69	21.86	20.15	18.43	17.33	16.38	15.61
180.0	32.49	29.17	25.74	23.41	21.59	20.04	18.38	17.27	16.38
225.0	27.68	24.58	22.53	20.87	19.21	17.99	16.99	15.89	15.17
270.0	27.23	24.69	22.14	20.48	19.04	17.60	16.61	15.78	15.00
315.0	25.74	23.64	21.37	19.98	18.76	17.71	16.61	15.83	15.17
360.0	22.64	20.81	18.99	17.77	16.77	15.72	15.00	14.39	13.84
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	13.28	12.73	12.34	12.01	11.62	11.29	11.07	10.79	10.57
45.0	14.17	13.62	13.17	12.79	12.29	11.96	11.62	11.35	11.07
90.0	14.67	14.12	13.51	13.06	12.68	12.34	11.90	11.57	11.24
135.0	14.78	14.17	13.56	13.12	12.73	12.29	11.96	11.62	11.29
180.0	15.44	14.78	14.06	13.62	13.17	12.62	12.29	12.01	11.68
225.0	14.50	13.84	13.34	12.90	12.57	12.12	11.79	11.51	11.18
270.0	14.17	13.62	13.17	12.73	12.23	11.90	11.62	11.24	10.96
315.0	14.61	13.95	13.51	13.06	12.62	12.29	12.01	11.62	11.35
360.0	13.28	12.73	12.34	12.01	11.62	11.29	11.07	10.79	10.57
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.30	10.07	9.85	9.63	9.30	9.02	8.80	8.52	8.25
45.0	10.74	10.52	10.24	9.96	9.69	9.30	9.02	8.75	8.41
90.0	10.90	10.57	10.30	9.96	9.63	9.30	8.97	8.64	8.36
135.0	10.90	10.63	10.35	10.02	9.74	9.47	9.08	8.80	8.47
180.0	11.29	10.96	10.68	10.41	10.07	9.80	9.52	9.13	8.86
225.0	10.79	10.52	10.19	9.91	9.58	9.24	8.91	8.64	8.41
270.0	10.74	10.41	10.19	9.91	9.69	9.41	9.19	8.86	8.58
315.0	11.02	10.74	10.46	10.19	9.91	9.63	9.35	9.08	8.80
360.0	10.30	10.07	9.85	9.63	9.30	9.02	8.80	8.52	8.25
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.03	7.80	7.58	7.36	7.20	6.97	6.81	6.64	6.53
45.0	8.19	7.97	7.75	7.47	7.31	7.14	6.97	6.75	6.64
90.0	8.14	7.80	7.64	7.42	7.20	7.03	6.86	6.70	6.53
135.0	8.19	7.92	7.64	7.42	7.20	7.09	6.86	6.70	6.53
180.0	8.58	8.19	7.97	7.64	7.42	7.25	7.09	6.86	6.70
225.0	8.08	7.86	7.64	7.47	7.25	7.09	6.92	6.70	6.53
270.0	8.36	8.14	7.92	7.69	7.53	7.31	7.14	6.97	6.75
315.0	8.52	8.25	8.03	7.80	7.58	7.36	7.20	6.97	6.86
360.0	8.03	7.80	7.58	7.36	7.20	6.97	6.81	6.64	6.53
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	6.37	6.31	6.14	6.03	5.92	5.81	5.70	5.70	5.59
45.0	6.53	6.37	6.25	6.14	5.98	5.92	5.81	5.87	5.59
90.0	6.48	6.37	6.14	6.03	5.92	5.87	5.87	5.65	5.70
135.0	6.42	6.37	6.20	6.03	5.92	5.87	5.87	5.76	5.76
180.0	6.53	6.42	6.37	6.14	6.03	5.92	5.81	5.81	5.65
225.0	6.42	6.37	6.20	6.09	5.98	5.81	5.81	5.81	5.48
270.0	6.64	6.53	6.37	6.31	6.14	6.03	5.92	5.87	5.76
315.0	6.70	6.53	6.48	6.31	6.20	6.03	5.92	5.81	5.70
360.0	6.37	6.31	6.14	6.03	5.92	5.81	5.70	5.70	5.59

Intensity data(cd)

C/γ(°)	90.0
0.0	5.54
45.0	5.48
90.0	5.81
135.0	5.87
180.0	5.65
225.0	5.54
270.0	5.59
315.0	5.65
360.0	5.54