



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

---

## NATA

---

LumCAT: 3-1548-A3  
Luminaire: 99.02.73.172+92.76.365.00  
Report No: NATA0100  
Test No: GC2019011508  
LampCAT: LUMINUS CLM-14-AC30  
Lamp flux(lm): 3533.0  
Number of Lamps: 1  
Length(mm): 79  
Phm Type: C

Voltage(V): 35.1000  
Current(A): 0.7000  
Power (W): 24.5700  
PF: 0.0000  
Ballast type: DC  
Width(mm): 79  
Height(mm): 0

---

## Photometric Results

---

Lumens(lm): 3226.95  
Efficiency(%): 91.34%  
Lumens(lm)/Power(W): 131.55  
Central intensity(cd): 22529.530  
Maximum intensity(cd): 22529.530  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=15.5  
                                  [C90/270]Total=15.5  
Field angle(10%Imax): [C0/180]Total=32.7  
                                  [C90/270]Total=32.7  
Maximum s/h(1/2): C0\_180=0.27 C90\_270=0.27  
Maximum s/h(1/4): C0\_180=0.27 C90\_270=0.27  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 91.49%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.580%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	22529.531	5.390	5.39	.153%	.167%
1.0	22291.172	42.662	48.052	1.208%	1.489%
2.0	21427.734	82.006	130.058	2.321%	4.030%
3.0	20216.250	116.025	246.083	3.284%	7.626%
4.0	18738.281	143.340	389.423	4.057%	12.068%
5.0	16649.227	159.126	548.549	4.504%	16.999%
6.0	14638.430	167.796	716.345	4.749%	22.199%
7.0	12788.297	170.907	887.252	4.837%	27.495%
8.0	10757.883	164.185	1051.437	4.647%	32.583%
9.0	8641.195	148.237	1199.674	4.196%	37.177%
10.0	7215.188	137.395	1337.069	3.889%	41.434%
11.0	5813.367	121.641	1458.709	3.443%	45.204%
12.0	4683.656	106.786	1565.496	3.023%	48.513%
13.0	3815.930	94.133	1659.628	2.664%	51.430%
14.0	3107.391	82.437	1742.065	2.333%	53.985%
15.0	2664.352	75.620	1817.686	2.140%	56.328%
16.0	2335.852	70.605	1888.291	1.998%	58.516%
17.0	2086.875	66.909	1955.2	1.894%	60.590%
18.0	1859.977	63.029	2018.229	1.784%	62.543%
19.0	1726.523	61.640	2079.869	1.745%	64.453%
20.0	1610.578	60.407	2140.276	1.710%	66.325%
21.0	1521.141	59.779	2200.055	1.692%	68.178%
22.0	1458.352	59.909	2259.964	1.696%	70.034%
23.0	1405.477	60.222	2320.186	1.705%	71.900%
24.0	1359.000	60.616	2380.801	1.716%	73.779%
25.0	1320.820	61.213	2442.014	1.733%	75.676%
26.0	1285.875	61.815	2503.829	1.750%	77.591%
27.0	1250.227	62.243	2566.071	1.762%	79.520%
28.0	1218.586	62.736	2628.808	1.776%	81.464%
29.0	1181.447	62.811	2691.619	1.778%	83.411%
30.0	1143.788	62.714	2754.333	1.775%	85.354%
31.0	1095.553	61.876	2816.209	1.751%	87.272%
32.0	1019.201	59.227	2875.437	1.676%	89.107%
33.0	940.366	56.164	2931.601	1.590%	90.847%
34.0	843.370	51.717	2983.317	1.464%	92.450%
35.0	720.612	45.326	3028.643	1.283%	93.855%
36.0	583.348	37.601	3066.244	1.064%	95.020%
37.0	468.640	30.928	3097.172	.875%	95.978%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	337.226	22.767	3119.94	.644%	96.684%
39.0	227.609	15.708	3135.647	.445%	97.171%
40.0	159.265	11.226	3146.874	.318%	97.519%
41.0	100.877	7.258	3154.131	.205%	97.743%
42.0	52.545	3.856	3157.987	.109%	97.863%
43.0	36.176	2.706	3160.692	.077%	97.947%
44.0	30.192	2.300	3162.992	.065%	98.018%
45.0	25.242	1.957	3164.95	.055%	98.079%
46.0	22.310	1.760	3166.709	.050%	98.133%
47.0	20.116	1.613	3168.323	.046%	98.183%
48.0	18.267	1.489	3169.811	.042%	98.229%
49.0	17.184	1.422	3171.234	.040%	98.273%
50.0	16.748	1.407	3172.641	.040%	98.317%
51.0	16.390	1.397	3174.037	.040%	98.360%
52.0	16.073	1.389	3175.426	.039%	98.403%
53.0	15.764	1.381	3176.807	.039%	98.446%
54.0	15.462	1.372	3178.179	.039%	98.489%
55.0	15.223	1.367	3179.546	.039%	98.531%
56.0	14.970	1.361	3180.907	.039%	98.573%
57.0	14.766	1.358	3182.265	.038%	98.615%
58.0	14.562	1.354	3183.619	.038%	98.657%
59.0	14.393	1.353	3184.972	.038%	98.699%
60.0	14.210	1.350	3186.322	.038%	98.741%
61.0	14.063	1.349	3187.67	.038%	98.783%
62.0	13.922	1.348	3189.018	.038%	98.825%
63.0	13.795	1.348	3190.366	.038%	98.866%
64.0	13.704	1.351	3191.717	.038%	98.908%
65.0	13.598	1.352	3193.069	.038%	98.950%
66.0	13.493	1.352	3194.42	.038%	98.992%
67.0	13.416	1.354	3195.774	.038%	99.034%
68.0	13.359	1.358	3197.133	.038%	99.076%
69.0	13.268	1.358	3198.491	.038%	99.118%
70.0	13.226	1.363	3199.854	.039%	99.160%
71.0	13.163	1.365	3201.219	.039%	99.203%
72.0	13.120	1.368	3202.587	.039%	99.245%
73.0	13.092	1.373	3203.96	.039%	99.288%
74.0	13.050	1.376	3205.336	.039%	99.330%
75.0	13.008	1.378	3206.714	.039%	99.373%

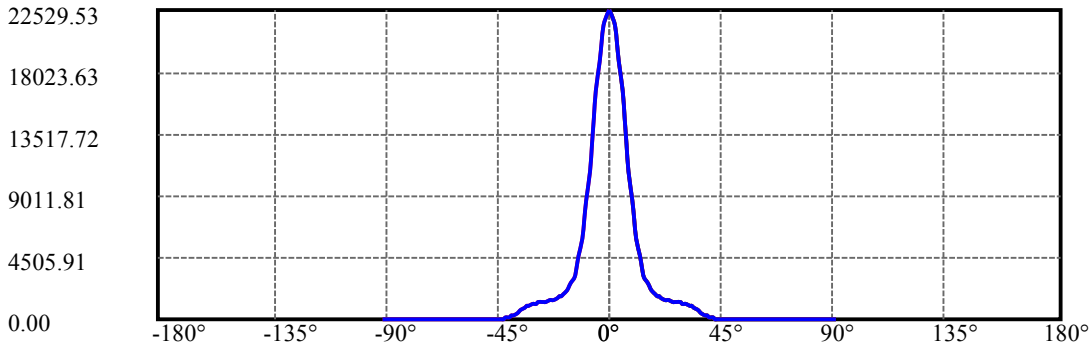
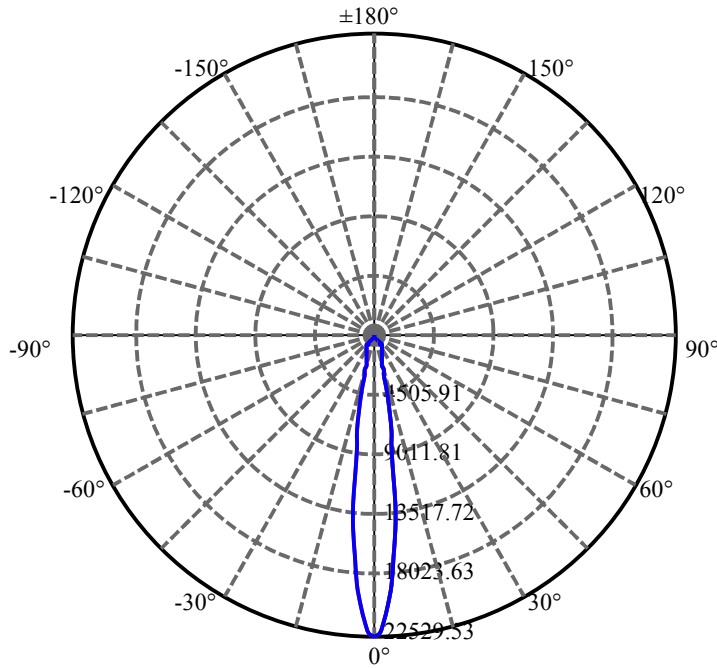
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	12.987	1.382	3208.095	.039%	99.416%
77.0	12.952	1.384	3209.479	.039%	99.459%
78.0	12.930	1.387	3210.866	.039%	99.502%
79.0	12.916	1.390	3212.257	.039%	99.545%
80.0	12.895	1.393	3213.649	.039%	99.588%
81.0	12.881	1.395	3215.044	.039%	99.631%
82.0	12.888	1.400	3216.444	.040%	99.675%
83.0	12.895	1.404	3217.848	.040%	99.718%
84.0	12.945	1.412	3219.259	.040%	99.762%
85.0	12.938	1.413	3220.673	.040%	99.806%
86.0	12.762	1.396	3222.069	.040%	99.849%
87.0	12.741	1.395	3223.464	.039%	99.892%
88.0	12.727	1.395	3224.859	.039%	99.935%
89.0	12.698	1.392	3226.251	.039%	99.978%
90.0	12.698	0.696	3226.947	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2754.33	77.96%	85.35%
0-40	3146.87	89.07%	97.52%
0-60	3186.32	90.19%	98.74%
0-90	3226.25	91.32%	99.98%
0-120	3226.25	91.32%	99.98%
0-180	3226.95	91.34%	100.00%
60-90	41.28	1.17%	1.28%
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%
0-27.25	2581.56	73.07%	80.00%

ZONAL LUMEN SUMMARY

0-10	1337.07
10-20	803.21
20-30	614.06
30-40	392.54
40-50	25.77
50-60	13.68
60-70	13.53
70-80	13.80
80-90	12.60
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

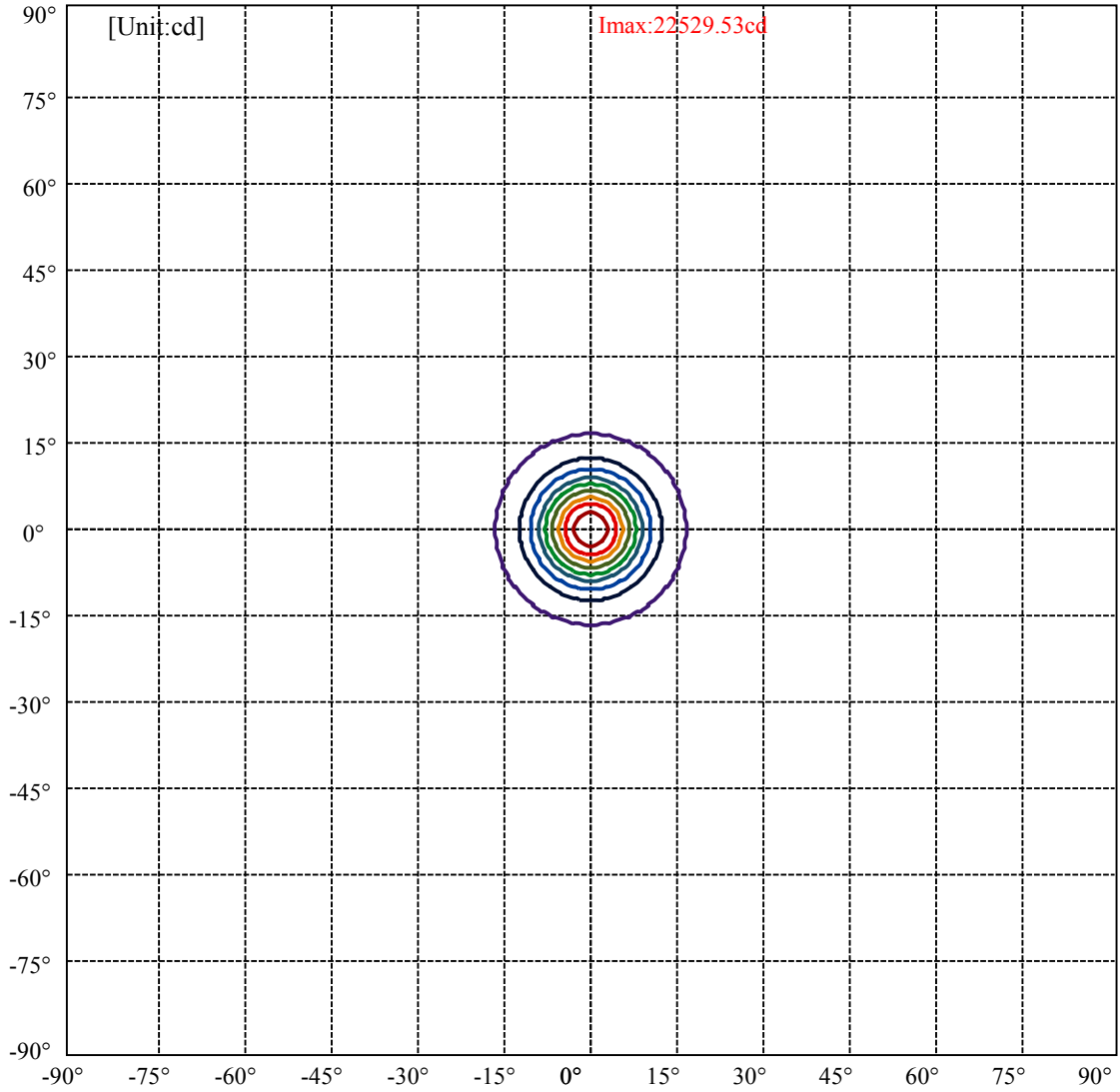


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:16.3 Right:16.3  
:C90/270Left:16.3 Right:16.3

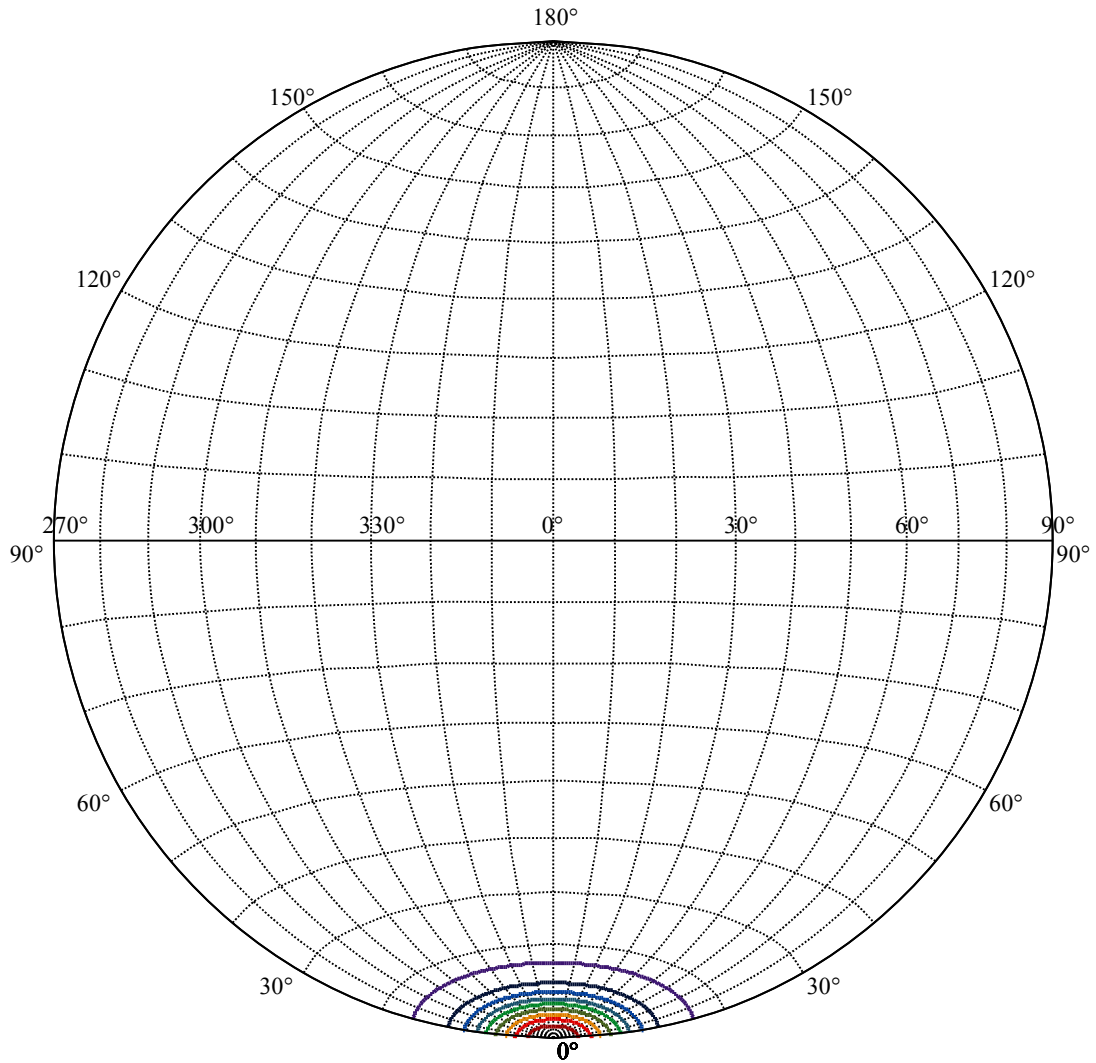
Beam Angle(50%Imax):C0/180Left:7.8 Right:7.8  
:C90/270Left:7.8 Right:7.8





(10%Imax) 2252.95	—
(20%Imax) 4505.91	—
(30%Imax) 6758.86	—
(40%Imax) 9011.81	—
(50%Imax) 11264.8	—
(60%Imax) 13517.7	—
(70%Imax) 15770.7	—
(80%Imax) 18023.6	—
(90%Imax) 20276.6	—





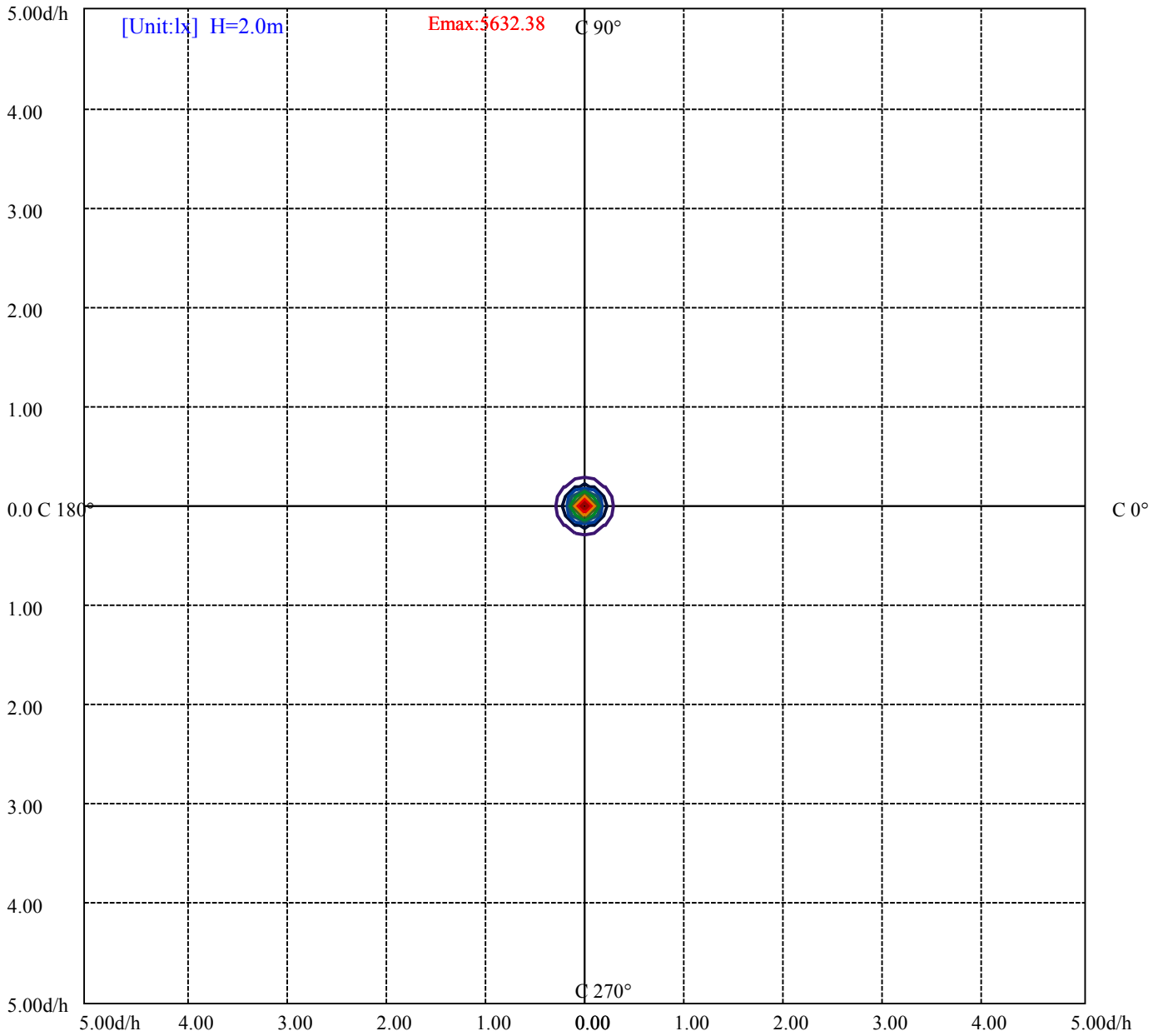
House

[Unit:cd]

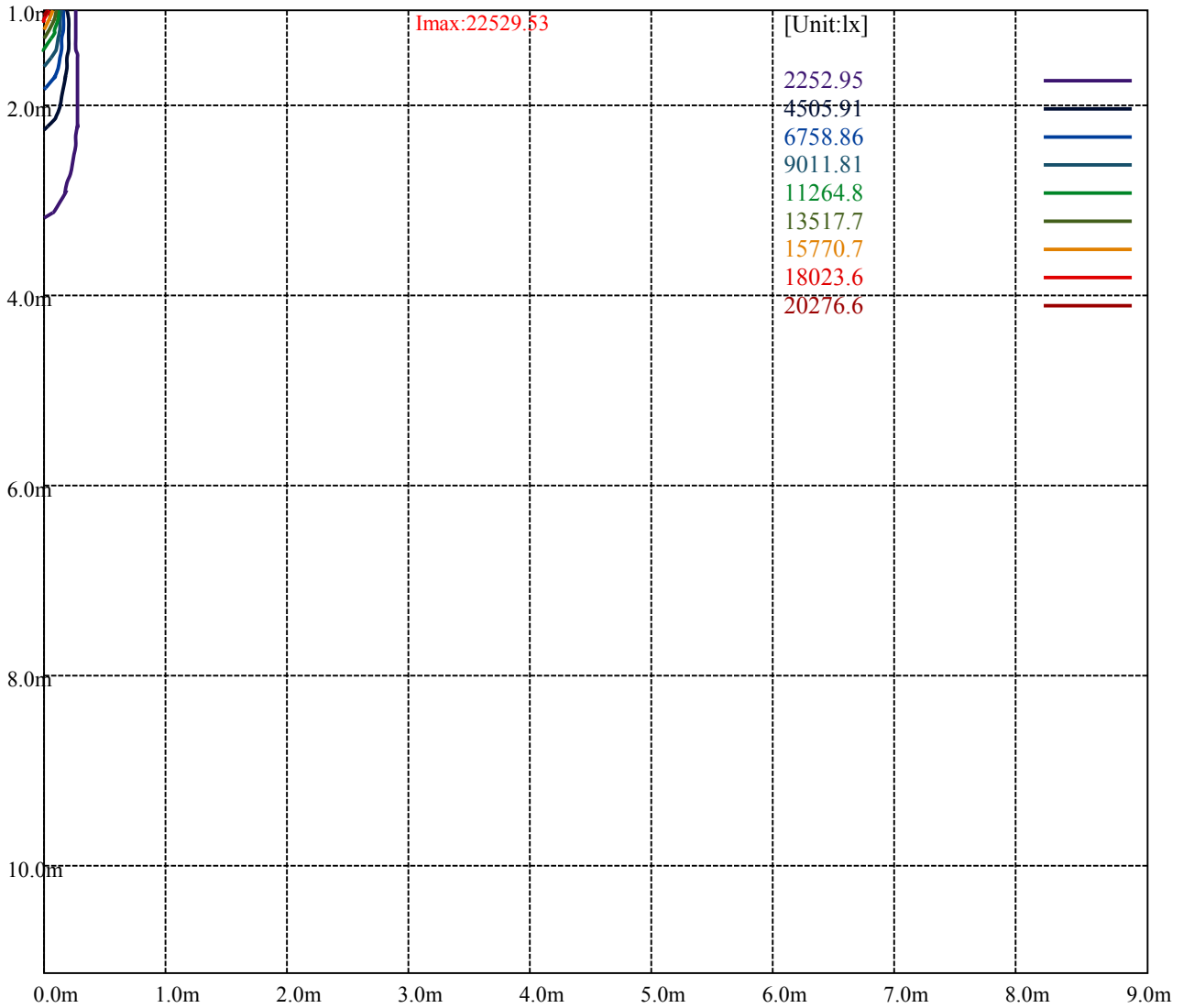
Road

**Imax:22529.53**

(10%Imax)	2252.95	—
(20%Imax)	4505.91	—
(30%Imax)	6758.86	—
(40%Imax)	9011.81	—
(50%Imax)	11264.8	—
(60%Imax)	13517.7	—
(70%Imax)	15770.7	—
(80%Imax)	18023.6	—
(90%Imax)	20276.6	—



(10%Emax) 563.2375	—
(20%Emax) 1126.475	—
(30%Emax) 1689.713	—
(40%Emax) 2252.95	—
(50%Emax) 2816.175	—
(60%Emax) 3379.425	—
(70%Emax) 3942.65	—
(80%Emax) 4505.9	—
(90%Emax) 5069.125	—



Luminance Table

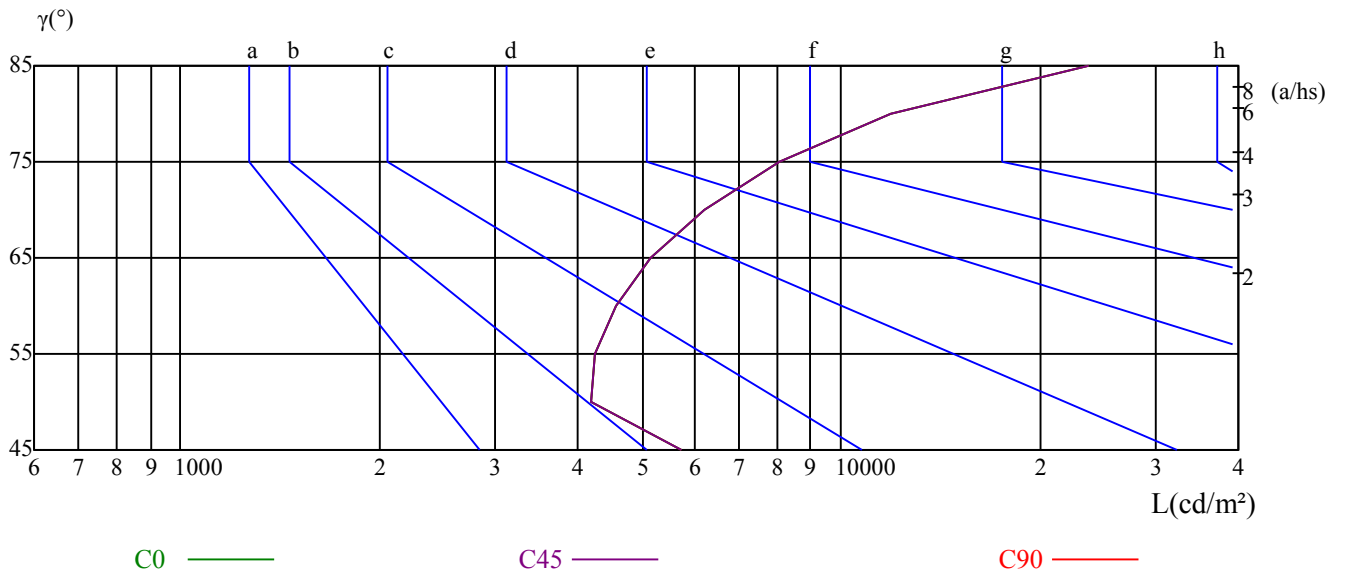
$\gamma$	45	50	55	60	65	70	75	80	85
C0	5720	4175	4253	4554	5156	6196	8053	11899	23785
C45	5720	4175	4253	4554	5156	6196	8053	11899	23785
C90	5720	4175	4253	4554	5156	6196	8053	11899	23785

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5156	5156	5156	8053	8053	8053	23785	23785	23785

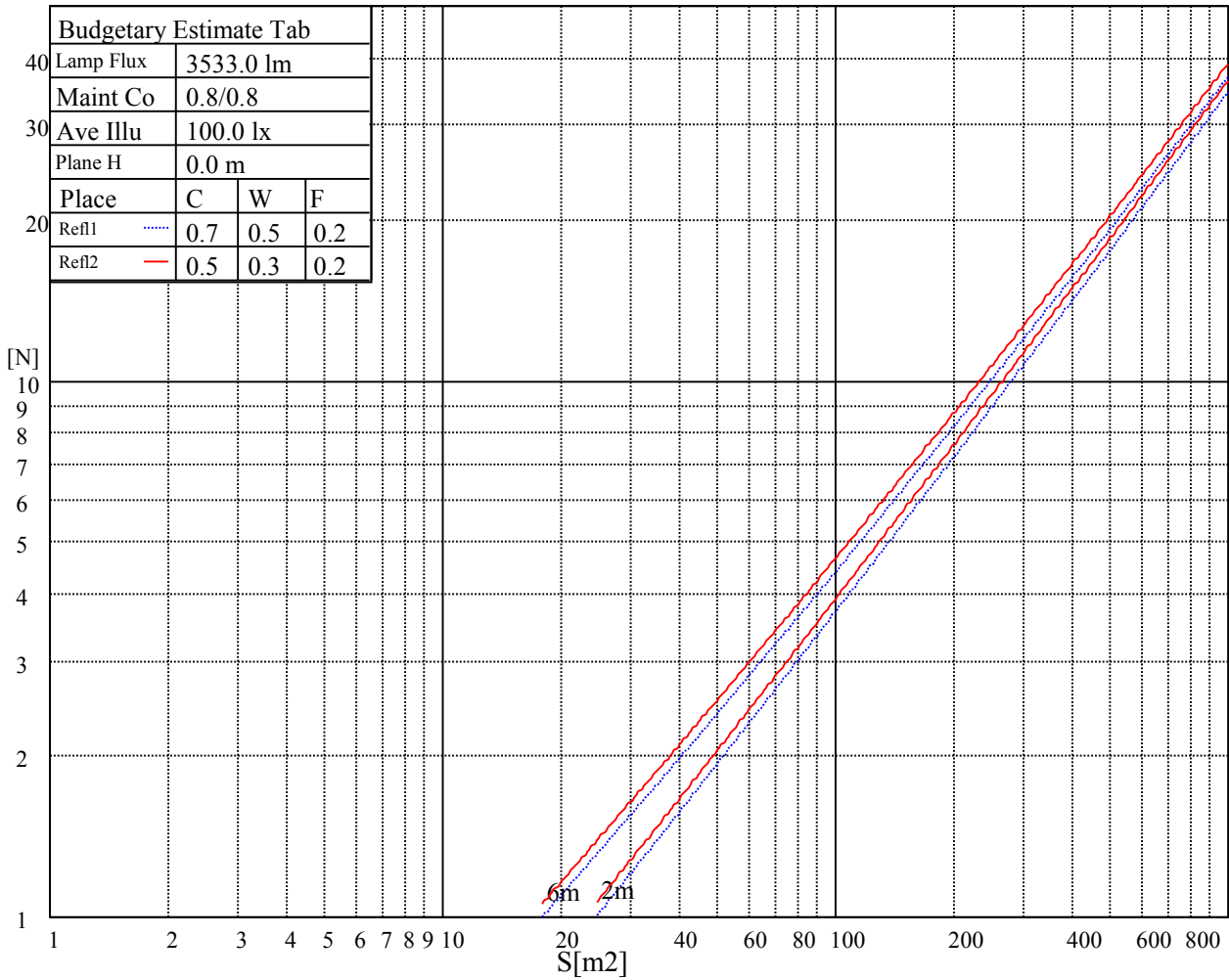
Glare Table

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

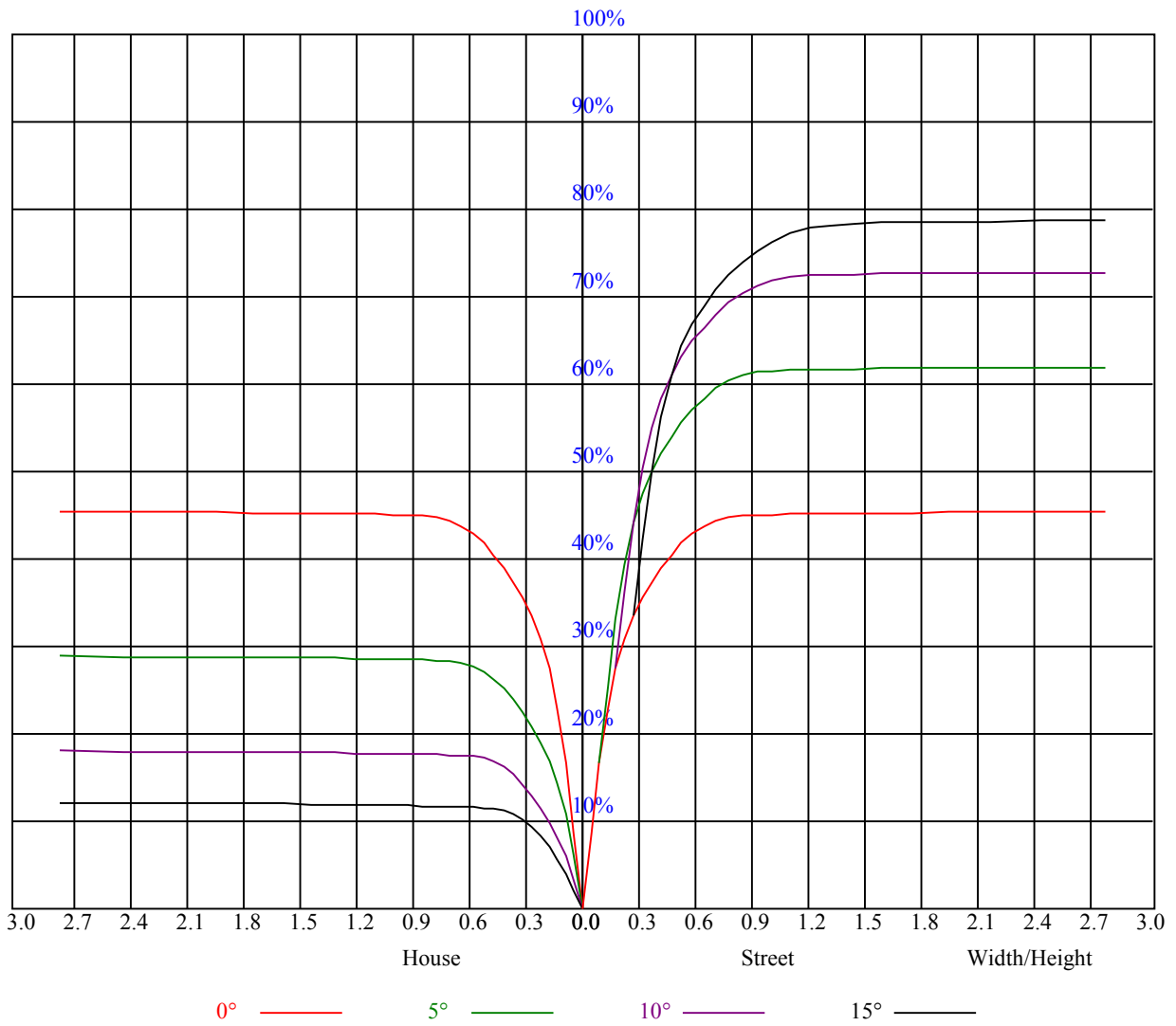
Luminance Limiting Curve



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	1.71	2.62	2.07	2.93	3.25	1.73	2.64	2.10	2.95	3.27
	3H	4.78	5.58	5.16	5.92	6.29	4.82	5.63	5.21	5.96	6.33
	4H	6.48	7.22	6.89	7.58	7.97	6.55	7.29	6.96	7.64	8.04
	6H	8.42	9.10	8.84	9.48	9.87	8.50	9.18	8.92	9.55	9.95
	8H	9.50	10.14	9.94	10.53	10.94	9.61	10.24	10.04	10.64	11.05
	12H	11.26	11.87	11.70	12.25	12.68	11.43	12.04	11.87	12.42	12.85
4H	2H	2.56	3.30	2.97	3.66	4.05	2.58	3.32	2.99	3.67	4.07
	3H	5.90	6.51	6.32	6.92	7.33	5.93	6.54	6.35	6.95	7.36
	4H	7.77	8.32	8.21	8.74	9.19	7.83	8.38	8.27	8.80	9.25
	6H	9.89	10.35	10.36	10.80	11.28	9.96	10.42	10.43	10.87	11.35
	8H	11.07	11.50	11.55	11.95	12.43	11.16	11.60	11.64	12.05	12.53
	12H	12.73	13.10	13.22	13.59	14.07	12.89	13.26	13.38	13.75	14.23
8H	4H	8.50	8.93	8.97	9.38	9.86	8.54	8.97	9.02	9.42	9.90
	6H	10.89	11.23	11.40	11.73	12.22	10.94	11.28	11.45	11.79	12.27
	8H	12.26	12.56	12.80	13.09	13.59	12.34	12.64	12.88	13.17	13.67
	12H	14.06	14.32	14.58	14.82	15.40	14.20	14.46	14.73	14.96	15.54
12H	4H	8.70	9.08	9.20	9.57	10.04	8.74	9.12	9.24	9.61	10.08
	6H	11.40	11.51	11.74	11.98	12.53	11.45	11.56	11.79	12.03	12.58
	8H	12.72	12.97	13.24	13.47	14.06	12.79	13.05	13.31	13.55	14.13
Variation with the observer position at spacings:											
S = 1.0H	5.6/-7.5					5.6/-7.5					
S = 1.5H	7.8/-5.6					7.8/-5.6					
S = 2.0H	9.1/-4.2					9.1/-4.2					
Standard tables:	BK3					BK3					
Uncorrected UGR	1.7					1.7					



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	1.09	1.09	1.09	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.03	1.01	0.99	1.01	0.99	0.97	0.97	0.96	0.94	0.94	0.92	0.91	0.90	0.90	0.89	0.87
2	0.97	0.94	0.92	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.88	0.87	0.88	0.86	0.85	0.84
3	0.93	0.89	0.86	0.91	0.88	0.86	0.89	0.86	0.84	0.87	0.85	0.83	0.85	0.83	0.82	0.80
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.84	0.82	0.79	0.83	0.80	0.79	0.77
5	0.85	0.81	0.78	0.84	0.81	0.78	0.83	0.80	0.77	0.81	0.79	0.76	0.80	0.78	0.76	0.75
6	0.82	0.78	0.75	0.81	0.77	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.78	0.75	0.73	0.72
7	0.79	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.70
8	0.77	0.72	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.74	0.71	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	0.72	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	0.68	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	22033.13	23186.25	23906.25	23906.25	23338.13	21903.75	20368.13	18551.25	16801.88
45.0	22871.25	23028.75	22488.75	21526.88	20188.13	18056.25	16115.63	14051.25	11756.25
90.0	22483.13	21526.88	19777.50	18067.50	16149.38	13888.13	11115.56	9680.63	7689.38
135.0	22730.63	21397.50	19254.38	17302.50	15243.75	12667.50	10687.50	8831.25	6975.00
180.0	22033.13	20486.25	18416.25	16149.38	14051.25	11226.94	9781.88	7785.00	6071.63
225.0	22871.25	22185.00	20885.63	19136.25	17325.00	15086.25	12391.88	10866.38	8807.06
270.0	22483.13	22955.63	22815.00	22106.25	20947.50	19203.75	17161.88	15204.38	12960.00
315.0	22730.63	23563.13	23878.13	23535.00	22663.13	21161.25	19485.00	17336.25	15001.88
360.0	22033.13	23186.25	23906.25	23906.25	23338.13	21903.75	20368.13	18551.25	16801.88
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	13899.38	11801.25	10040.63	7723.13	5934.38	4815.00	3706.88	3043.13	2868.75
45.0	9579.38	7779.38	6007.50	4753.13	3774.38	3110.63	2885.63	2324.25	2102.63
90.0	6143.63	4782.38	3841.88	3241.13	2784.94	2356.88	2104.31	1915.88	1754.44
135.0	5445.00	4410.00	3583.13	3043.13	2874.38	2319.75	2036.25	1851.19	1741.50
180.0	4859.44	3899.25	3228.75	2781.56	2429.44	2104.31	1912.50	1769.06	1648.69
225.0	7156.13	5578.88	4381.88	3637.13	3093.75	2593.69	2292.19	2055.38	1856.25
270.0	11008.13	8932.50	7048.13	5625.00	4393.13	3560.63	3031.88	2863.13	2254.50
315.0	11038.50	10537.88	8375.06	6665.06	5243.06	3998.25	3345.19	2864.81	2468.25
360.0	13899.38	11801.25	10040.63	7723.13	5934.38	4815.00	3706.88	3043.13	2868.75
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2289.38	2056.50	1851.75	1700.44	1600.88	1525.50	1452.38	1404.56	1361.81
45.0	1851.75	1707.19	1601.44	1510.31	1450.13	1404.56	1358.44	1323.56	1292.63
90.0	1635.19	1554.19	1482.75	1424.81	1380.94	1339.31	1307.25	1274.06	1243.13
135.0	1620.56	1544.63	1483.88	1422.56	1379.25	1342.13	1302.19	1269.56	1241.44
180.0	1558.13	1495.69	1437.75	1388.81	1351.13	1315.13	1285.88	1254.38	1219.50
225.0	1711.13	1614.38	1532.25	1469.25	1423.69	1379.81	1345.50	1310.63	1276.88
270.0	2027.25	1850.06	1688.06	1593.56	1521.00	1463.06	1404.56	1364.63	1329.19
315.0	2186.44	1989.56	1806.75	1659.38	1559.81	1474.31	1415.81	1365.19	1322.44
360.0	2289.38	2056.50	1851.75	1700.44	1600.88	1525.50	1452.38	1404.56	1361.81
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1315.13	1281.38	1249.31	1215.56	1180.13	1155.38	1131.75	1095.19	1022.63
45.0	1254.38	1224.00	1191.94	1159.31	1131.19	1101.94	1019.81	906.75	790.31
90.0	1212.75	1184.06	1121.46	1116.34	1049.63	926.21	808.59	685.97	531.51
135.0	1201.50	1173.94	1148.06	1103.63	1008.56	898.31	761.63	635.63	492.19
180.0	1190.81	1163.81	1117.18	1057.16	960.86	801.68	691.82	566.66	422.04
225.0	1247.63	1214.44	1179.56	1121.18	1114.31	1015.76	910.01	788.57	659.76
270.0	1292.63	1256.63	1226.25	1188.56	1157.63	1134.00	1089.56	1011.94	895.50
315.0	1287.00	1250.44	1217.81	1188.56	1162.13	1120.33	1109.76	1056.26	950.96
360.0	1315.13	1281.38	1249.31	1215.56	1180.13	1155.38	1131.75	1095.19	1022.63
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	902.81	776.81	626.63	481.50	354.38	294.19	117.79	63.51	51.36
45.0	649.13	523.69	385.88	284.63	151.93	79.37	50.74	42.69	34.59
90.0	408.54	290.70	162.00	84.32	47.76	38.87	31.67	26.61	22.56
135.0	349.88	290.81	121.05	55.35	41.63	33.75	25.43	22.61	19.13
180.0	281.25	170.83	81.56	43.43	36.56	27.79	23.40	20.36	18.56
225.0	495.39	369.39	251.55	125.38	60.58	42.13	33.36	24.98	22.05
270.0	759.38	631.69	519.19	341.44	296.44	124.99	52.37	40.73	32.68
315.0	820.41	695.19	549.96	404.83	284.85	165.94	85.61	47.93	40.61
360.0	902.81	776.81	626.63	481.50	354.38	294.19	117.79	63.51	51.36

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	41.40	33.81	29.93	23.51	18.11	17.61	17.16	16.76	16.37
45.0	29.25	23.96	17.78	17.33	16.82	16.48	16.14	15.86	15.58
90.0	18.11	17.66	17.16	16.65	16.37	15.92	15.69	15.47	15.19
135.0	17.72	17.27	16.88	16.54	16.20	15.92	15.64	15.41	15.13
180.0	18.11	17.66	17.10	16.82	16.48	16.14	15.81	15.58	15.30
225.0	20.03	18.68	18.06	17.49	17.10	16.65	16.26	15.98	15.75
270.0	24.75	21.88	20.08	18.56	18.00	17.55	17.10	16.71	16.31
315.0	32.57	27.56	23.96	19.24	18.39	17.72	17.33	16.82	16.48
360.0	41.40	33.81	29.93	23.51	18.11	17.61	17.16	16.76	16.37
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	16.09	15.81	15.53	15.30	15.02	14.79	14.57	14.40	14.23
45.0	15.36	15.13	14.85	14.68	14.46	14.34	14.12	14.06	13.89
90.0	14.96	14.74	14.46	14.34	14.18	14.01	13.89	13.73	13.61
135.0	14.85	14.68	14.51	14.34	14.23	14.12	13.95	13.84	13.73
180.0	15.02	14.85	14.63	14.46	14.34	14.18	14.06	13.89	13.78
225.0	15.41	15.19	14.96	14.74	14.51	14.34	14.18	14.01	13.89
270.0	15.92	15.64	15.41	15.08	14.85	14.68	14.46	14.29	14.06
315.0	16.09	15.75	15.41	15.19	14.91	14.68	14.46	14.29	14.18
360.0	16.09	15.81	15.53	15.30	15.02	14.79	14.57	14.40	14.23
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.12	14.01	13.95	13.78	13.67	13.56	13.50	13.44	13.33
45.0	13.78	13.67	13.56	13.44	13.33	13.33	13.22	13.16	13.11
90.0	13.50	13.44	13.33	13.28	13.22	13.16	13.05	13.05	12.99
135.0	13.56	13.50	13.44	13.33	13.28	13.28	13.22	13.16	13.11
180.0	13.73	13.61	13.56	13.50	13.44	13.39	13.33	13.28	13.22
225.0	13.73	13.67	13.50	13.44	13.39	13.33	13.22	13.22	13.16
270.0	13.95	13.84	13.73	13.56	13.44	13.39	13.28	13.22	13.16
315.0	14.01	13.89	13.73	13.61	13.56	13.44	13.33	13.28	13.22
360.0	14.12	14.01	13.95	13.78	13.67	13.56	13.50	13.44	13.33
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.28	13.28	13.22	13.16	13.11	13.11	13.05	13.05	13.05
45.0	13.05	13.05	12.99	12.94	12.94	12.88	12.88	12.83	12.83
90.0	12.99	12.94	12.94	12.88	12.88	12.83	12.83	12.83	12.77
135.0	13.05	13.05	12.99	12.99	12.99	12.94	12.94	12.88	12.88
180.0	13.16	13.16	13.11	13.11	13.11	13.05	13.05	13.05	13.05
225.0	13.11	13.05	12.99	12.94	12.94	12.88	12.88	12.88	12.83
270.0	13.16	13.05	13.05	12.99	12.94	12.94	12.88	12.88	12.88
315.0	13.16	13.16	13.11	13.05	12.99	12.99	12.94	12.94	12.88
360.0	13.28	13.28	13.22	13.16	13.11	13.11	13.05	13.05	13.05
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	12.99	12.99	12.94	12.94	12.94	12.88	12.94	12.88	12.83
45.0	12.83	12.77	12.77	12.77	12.71	12.66	12.66	12.66	12.60
90.0	12.77	12.77	12.71	12.71	12.66	12.66	12.66	12.66	12.60
135.0	12.88	12.88	12.88	12.88	12.88	12.71	12.71	12.71	12.71
180.0	13.05	13.11	13.39	13.67	13.73	12.77	12.77	12.83	12.83
225.0	12.83	12.88	12.88	12.99	12.99	12.94	12.71	12.66	12.66
270.0	12.83	12.83	12.77	12.77	12.77	12.71	12.71	12.66	12.66
315.0	12.88	12.88	12.83	12.83	12.83	12.77	12.77	12.77	12.71
360.0	12.99	12.99	12.94	12.94	12.94	12.88	12.94	12.88	12.83

Intensity data(cd)

C/γ(°)	90.0
0.0	12.83
45.0	12.66
90.0	12.60
135.0	12.71
180.0	12.77
225.0	12.66
270.0	12.66
315.0	12.71
360.0	12.83