



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: GC2019011516  
LampCAT: CITIZEN CLU720  
Lamp flux(lm): 1995.0  
Number of Lamps: 1  
Length(mm): 79  
Phm Type: C

Voltage(V): 35.0000  
Current(A): 0.5000  
Power (W): 17.5000  
PF: 0.0000  
Ballast type: DC  
Width(mm): 79  
Height(mm): 0

---

## Photometric Results

---

Lumens(lm): 1818.19  
Efficiency(%): 91.14%  
Lumens(lm)/Power(W): 104.15  
Central intensity(cd): 18683.440  
Maximum intensity(cd): 18683.440  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=12.1  
                                  [C90/270]Total=12.1  
Field angle(10%Imax): [C0/180]Total=25.2  
                                  [C90/270]Total=25.2  
Maximum s/h(1/2): C0\_180=0.21 C90\_270=0.21  
Maximum s/h(1/4): C0\_180=0.22 C90\_270=0.22  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 91.36%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.516%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	18683.438	4.470	4.47	.224%	.246%
1.0	18248.906	34.926	39.396	1.751%	2.167%
2.0	17284.219	66.149	105.544	3.316%	5.805%
3.0	15525.070	89.102	194.646	4.466%	10.705%
4.0	13483.758	103.145	297.79	5.170%	16.378%
5.0	11538.422	110.279	408.07	5.528%	22.444%
6.0	9413.508	107.904	515.974	5.409%	28.378%
7.0	7655.766	102.314	618.288	5.129%	34.006%
8.0	5835.023	89.053	707.341	4.464%	38.904%
9.0	4434.258	76.069	783.41	3.813%	43.087%
10.0	3411.703	64.967	848.377	3.256%	46.660%
11.0	2557.336	53.510	901.887	2.682%	49.604%
12.0	2062.266	47.019	948.906	2.357%	52.190%
13.0	1733.414	42.760	991.667	2.143%	54.541%
14.0	1417.577	37.607	1029.274	1.885%	56.610%
15.0	1248.708	35.441	1064.715	1.777%	58.559%
16.0	1102.767	33.333	1098.048	1.671%	60.392%
17.0	1015.924	32.572	1130.621	1.633%	62.184%
18.0	938.166	31.792	1162.412	1.594%	63.932%
19.0	877.416	31.326	1193.738	1.570%	65.655%
20.0	833.604	31.265	1225.003	1.567%	67.375%
21.0	799.284	31.411	1256.414	1.574%	69.102%
22.0	769.226	31.600	1288.014	1.584%	70.840%
23.0	744.954	31.920	1319.933	1.600%	72.596%
24.0	723.677	32.278	1352.212	1.618%	74.371%
25.0	704.974	32.672	1384.884	1.638%	76.168%
26.0	688.697	33.107	1417.991	1.660%	77.989%
27.0	673.608	33.536	1451.526	1.681%	79.834%
28.0	658.645	33.909	1485.435	1.700%	81.699%
29.0	646.587	34.376	1519.811	1.723%	83.589%
30.0	634.247	34.776	1554.587	1.743%	85.502%
31.0	621.443	35.099	1589.685	1.759%	87.432%
32.0	601.130	34.932	1624.618	1.751%	89.354%
33.0	563.330	33.645	1658.263	1.686%	91.204%
34.0	502.924	30.840	1689.103	1.546%	92.900%
35.0	428.674	26.963	1716.066	1.352%	94.383%
36.0	347.323	22.387	1738.454	1.122%	95.614%
37.0	237.002	15.641	1754.095	.784%	96.475%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	168.630	11.385	1765.48	.571%	97.101%
39.0	98.086	6.769	1772.249	.339%	97.473%
40.0	50.723	3.575	1775.824	.179%	97.670%
41.0	29.960	2.155	1777.98	.108%	97.788%
42.0	23.034	1.690	1779.67	.085%	97.881%
43.0	20.018	1.497	1781.167	.075%	97.964%
44.0	17.262	1.315	1782.482	.066%	98.036%
45.0	14.948	1.159	1783.641	.058%	98.100%
46.0	13.247	1.045	1784.686	.052%	98.157%
47.0	10.920	0.876	1785.562	.044%	98.205%
48.0	9.802	0.799	1786.361	.040%	98.249%
49.0	9.548	0.790	1787.151	.040%	98.293%
50.0	9.330	0.784	1787.935	.039%	98.336%
51.0	9.134	0.778	1788.713	.039%	98.379%
52.0	8.937	0.772	1789.485	.039%	98.421%
53.0	8.768	0.768	1790.253	.038%	98.463%
54.0	8.620	0.765	1791.018	.038%	98.506%
55.0	8.452	0.759	1791.777	.038%	98.547%
56.0	8.332	0.757	1792.535	.038%	98.589%
57.0	8.205	0.755	1793.289	.038%	98.630%
58.0	8.107	0.754	1794.043	.038%	98.672%
59.0	8.023	0.754	1794.797	.038%	98.713%
60.0	7.938	0.754	1795.551	.038%	98.755%
61.0	7.840	0.752	1796.303	.038%	98.796%
62.0	7.763	0.752	1797.055	.038%	98.838%
63.0	7.692	0.752	1797.806	.038%	98.879%
64.0	7.629	0.752	1798.558	.038%	98.920%
65.0	7.573	0.753	1799.311	.038%	98.962%
66.0	7.516	0.753	1800.064	.038%	99.003%
67.0	7.467	0.754	1800.818	.038%	99.044%
68.0	7.439	0.756	1801.574	.038%	99.086%
69.0	7.411	0.759	1802.333	.038%	99.128%
70.0	7.376	0.760	1803.093	.038%	99.170%
71.0	7.341	0.761	1803.854	.038%	99.211%
72.0	7.313	0.763	1804.617	.038%	99.253%
73.0	7.305	0.766	1805.383	.038%	99.296%
74.0	7.270	0.766	1806.149	.038%	99.338%
75.0	7.256	0.769	1806.918	.039%	99.380%

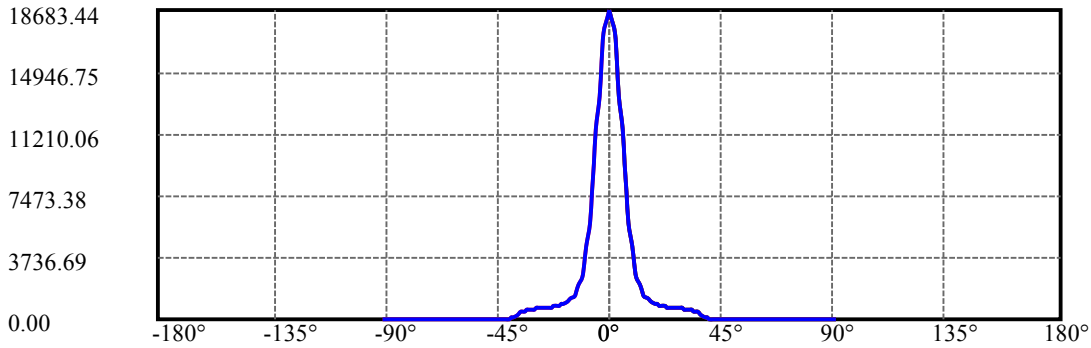
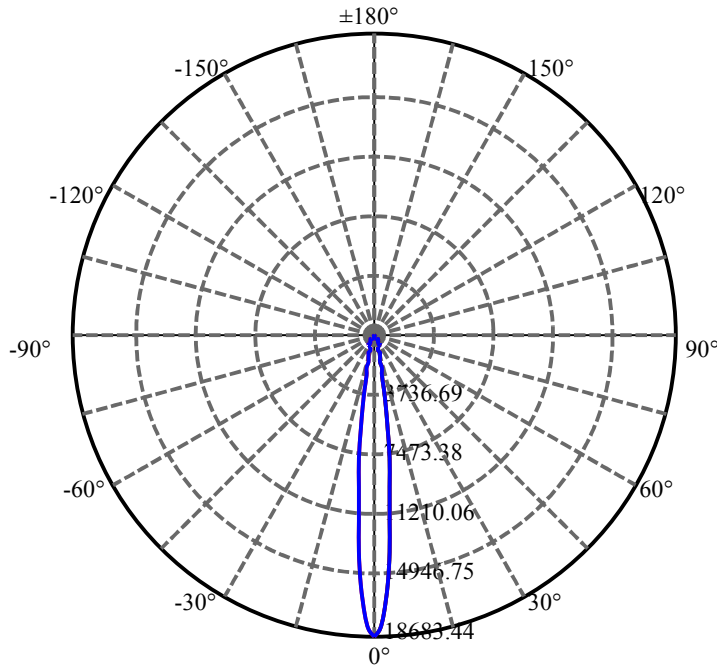
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.221	0.768	1807.686	.039%	99.422%
77.0	7.235	0.773	1808.459	.039%	99.465%
78.0	7.214	0.774	1809.233	.039%	99.507%
79.0	7.200	0.775	1810.008	.039%	99.550%
80.0	7.186	0.776	1810.784	.039%	99.593%
81.0	7.186	0.778	1811.562	.039%	99.635%
82.0	7.172	0.779	1812.341	.039%	99.678%
83.0	7.158	0.779	1813.12	.039%	99.721%
84.0	7.144	0.779	1813.899	.039%	99.764%
85.0	7.165	0.783	1814.682	.039%	99.807%
86.0	7.158	0.783	1815.465	.039%	99.850%
87.0	7.130	0.781	1816.246	.039%	99.893%
88.0	7.102	0.778	1817.024	.039%	99.936%
89.0	7.095	0.778	1817.802	.039%	99.979%
90.0	7.088	0.389	1818.191	.019%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1554.59	77.92%	85.50%
0-40	1775.82	89.01%	97.67%
0-60	1795.55	90.00%	98.75%
0-90	1817.80	91.12%	99.98%
0-120	1817.80	91.12%	99.98%
0-180	1818.19	91.14%	100.00%
60-90	23.00	1.15%	1.27%
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%
0-27.09	1454.55	72.91%	80.00%

ZONAL LUMEN SUMMARY

0-10	848.38
10-20	376.63
20-30	329.58
30-40	221.24
40-50	12.11
50-60	7.62
60-70	7.54
70-80	7.69
80-90	7.02
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



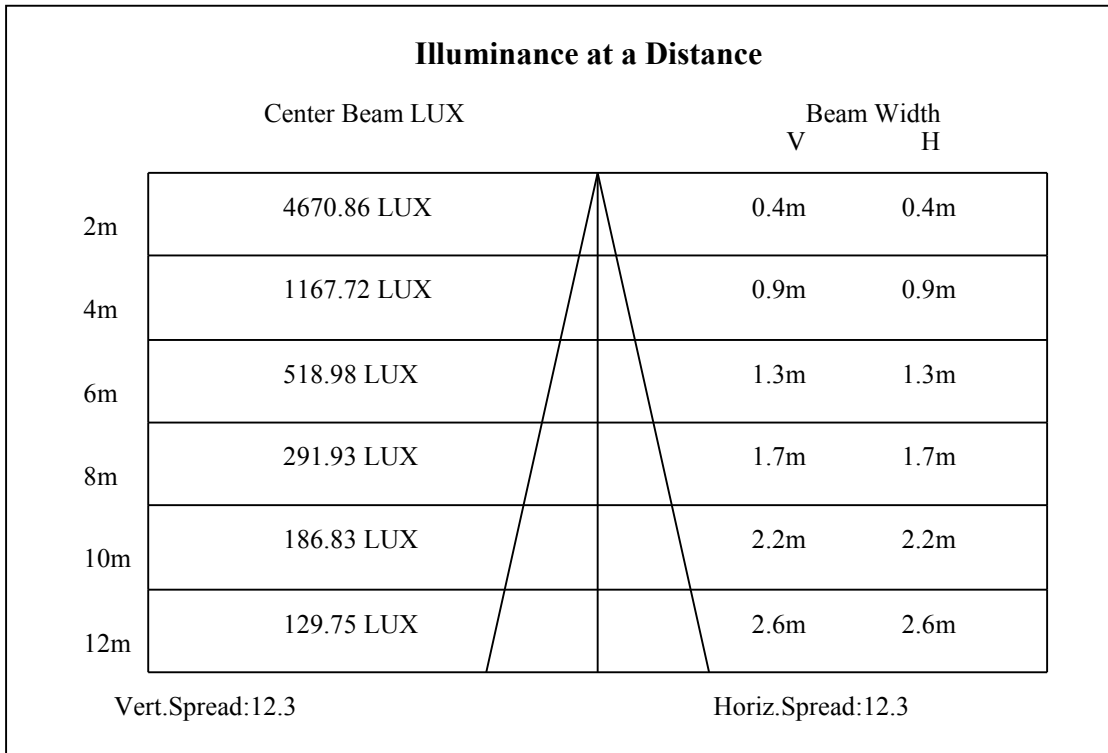
C0(Max): —————

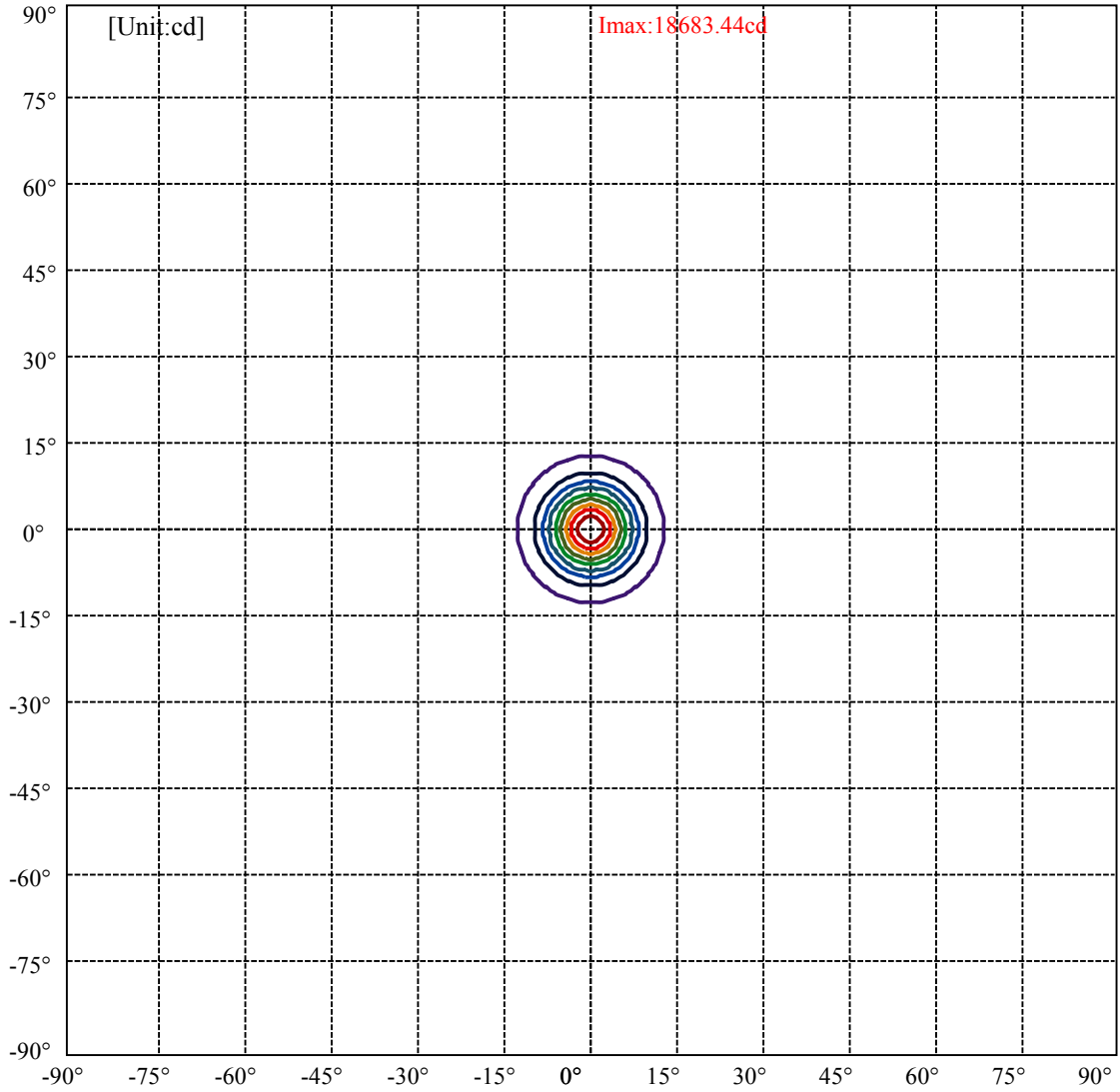
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:12.6 Right:12.6  
:C90/270Left:12.6 Right:12.6

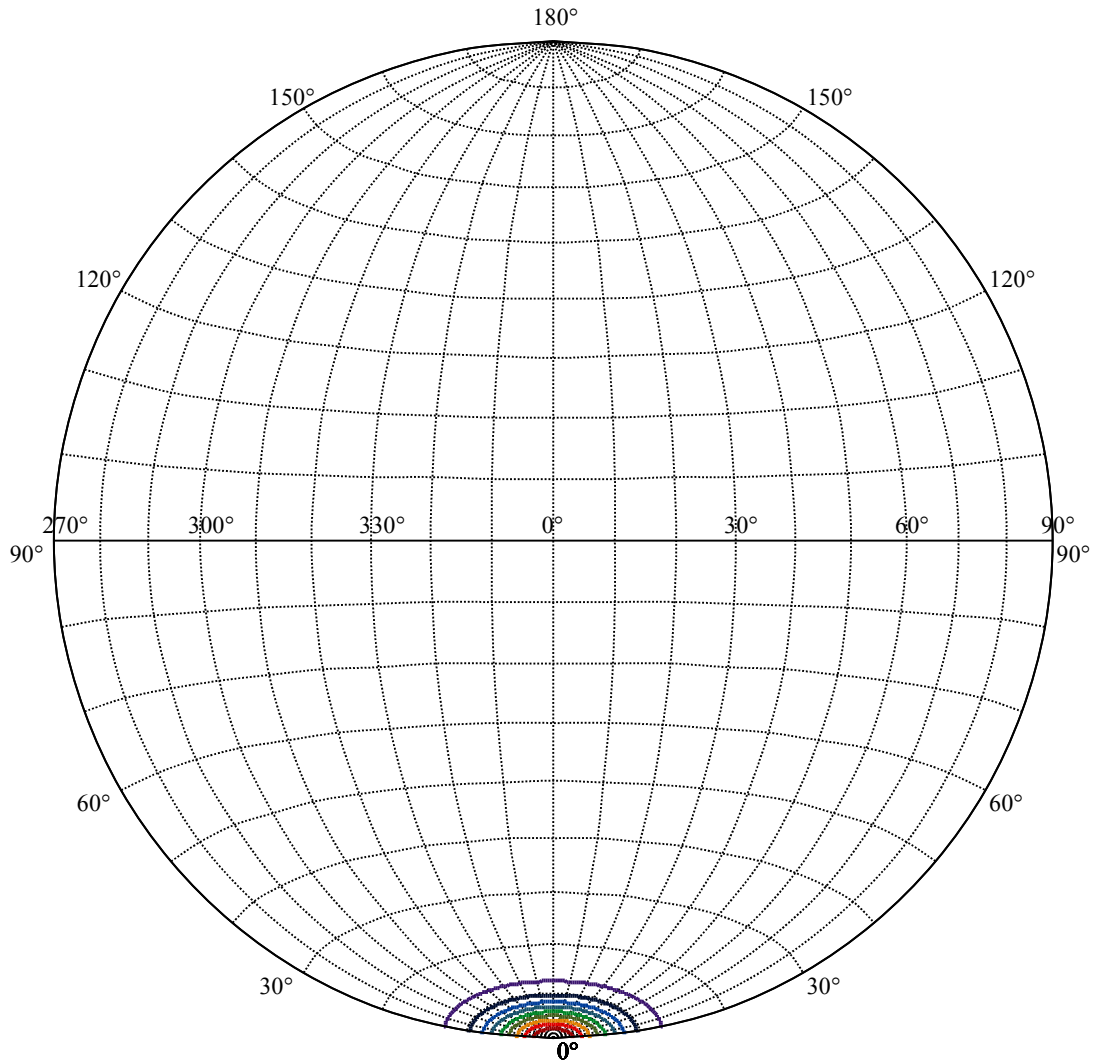
Beam Angle(50%Imax):C0/180Left:6.0 Right:6.0  
:C90/270Left:6.0 Right:6.0





(10%Imax) 1868.34	—
(20%Imax) 3736.69	—
(30%Imax) 5605.03	—
(40%Imax) 7473.38	—
(50%Imax) 9341.72	—
(60%Imax) 11210.1	—
(70%Imax) 13078.4	—
(80%Imax) 14946.8	—
(90%Imax) 16815.1	—





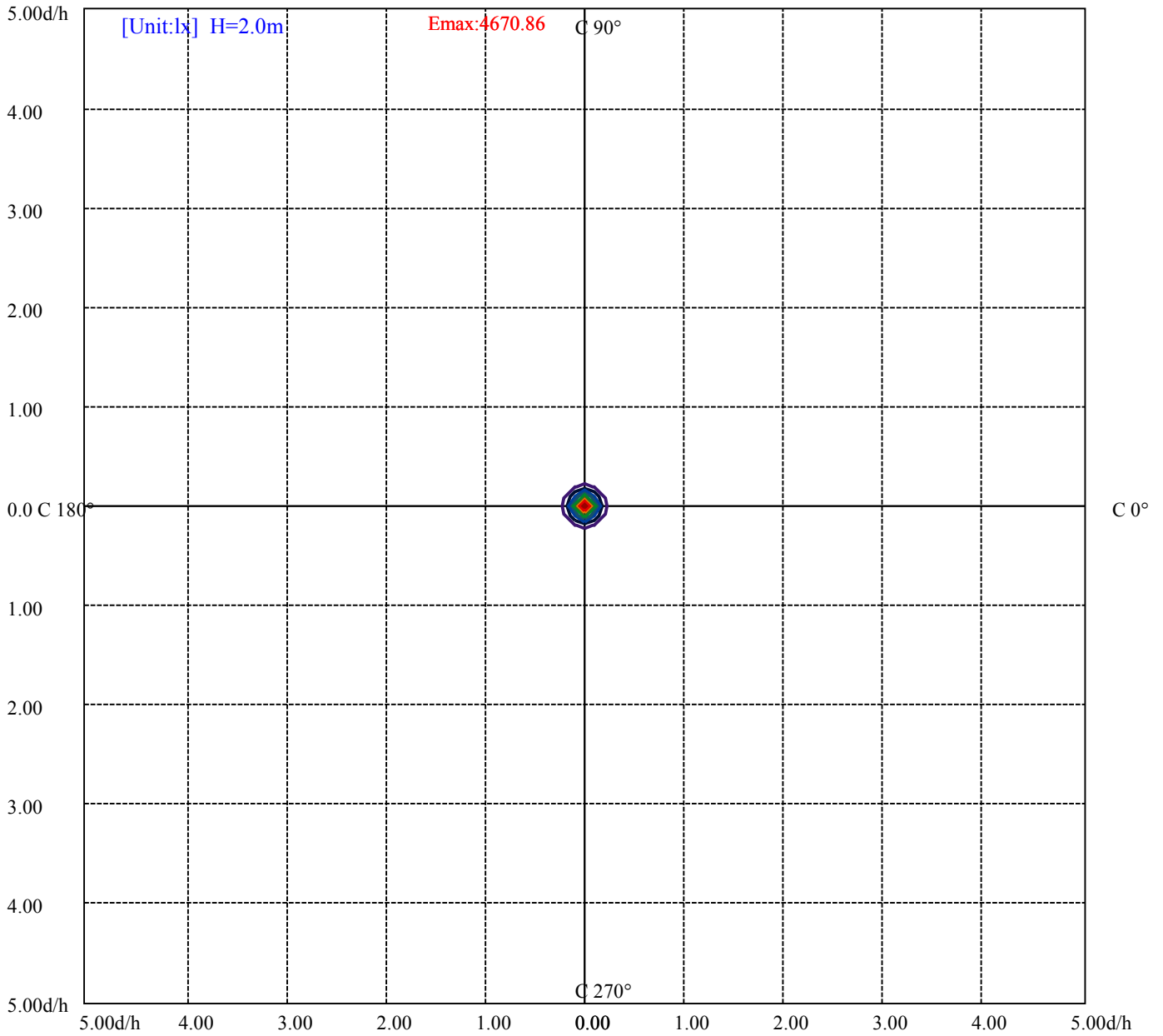
House

[Unit:cd]

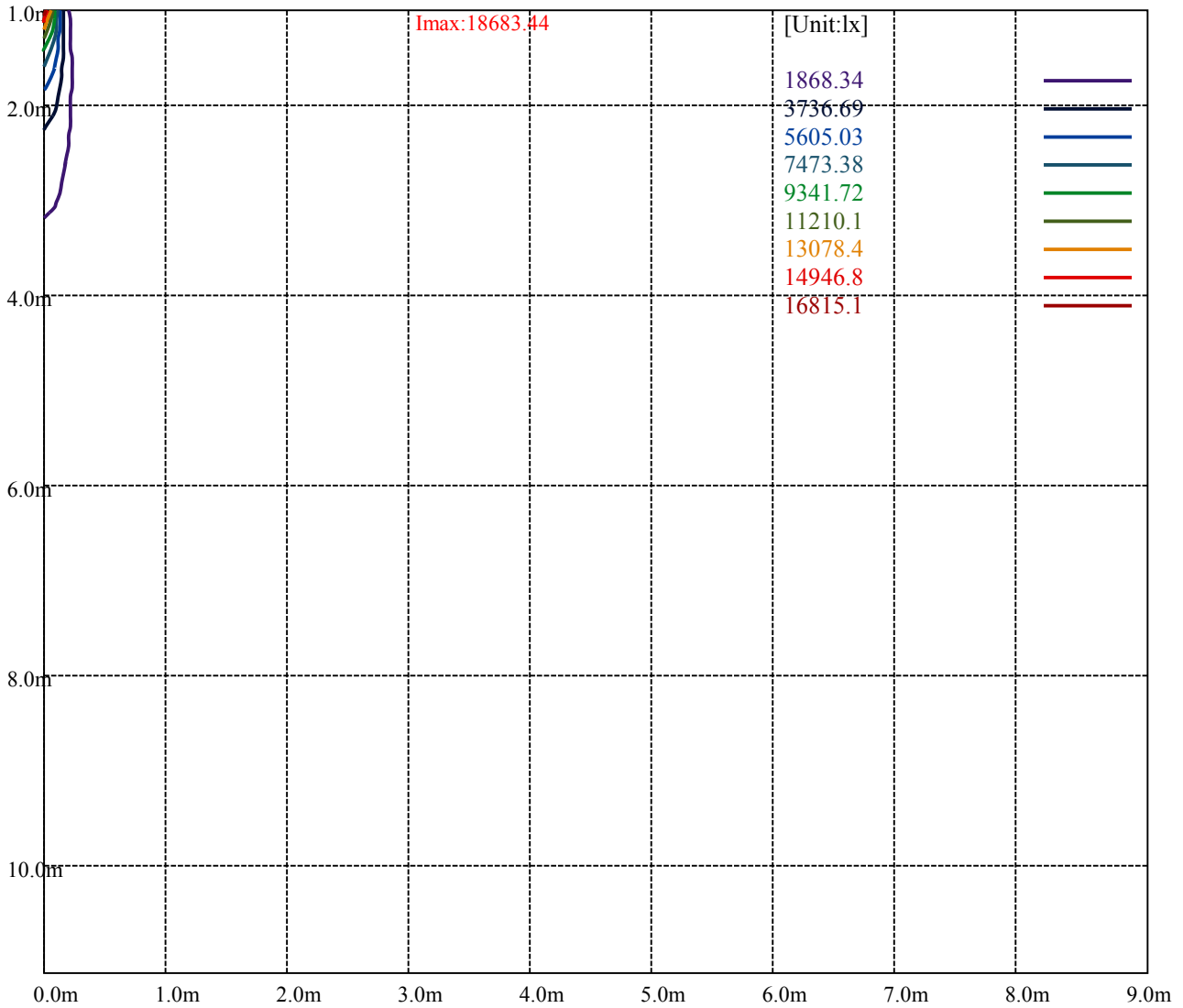
Road

**Imax:18683.44**

(10%Imax) 1868.34	—
(20%Imax) 3736.69	—
(30%Imax) 5605.03	—
(40%Imax) 7473.38	—
(50%Imax) 9341.72	—
(60%Imax) 11210.1	—
(70%Imax) 13078.4	—
(80%Imax) 14946.8	—
(90%Imax) 16815.1	—



(10%Emax) 467.085	—
(20%Emax) 934.1675	—
(30%Emax) 1401.252	—
(40%Emax) 1868.338	—
(50%Emax) 2335.423	—
(60%Emax) 2802.5	—
(70%Emax) 3269.6	—
(80%Emax) 3736.675	—
(90%Emax) 4203.75	—



Luminance Table

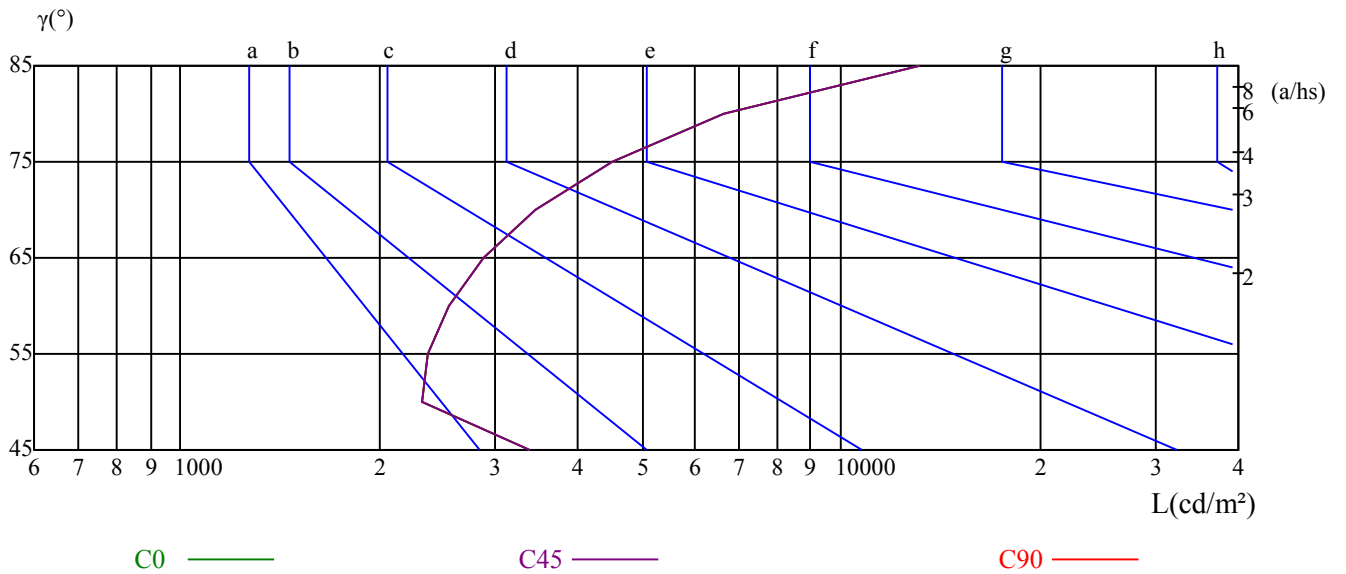
$\gamma$	45	50	55	60	65	70	75	80	85
C0	3387	2326	2361	2544	2871	3455	4492	6631	13172
C45	3387	2326	2361	2544	2871	3455	4492	6631	13172
C90	3387	2326	2361	2544	2871	3455	4492	6631	13172

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
2871	2871	2871	4492	4492	4492	13172	13172	13172

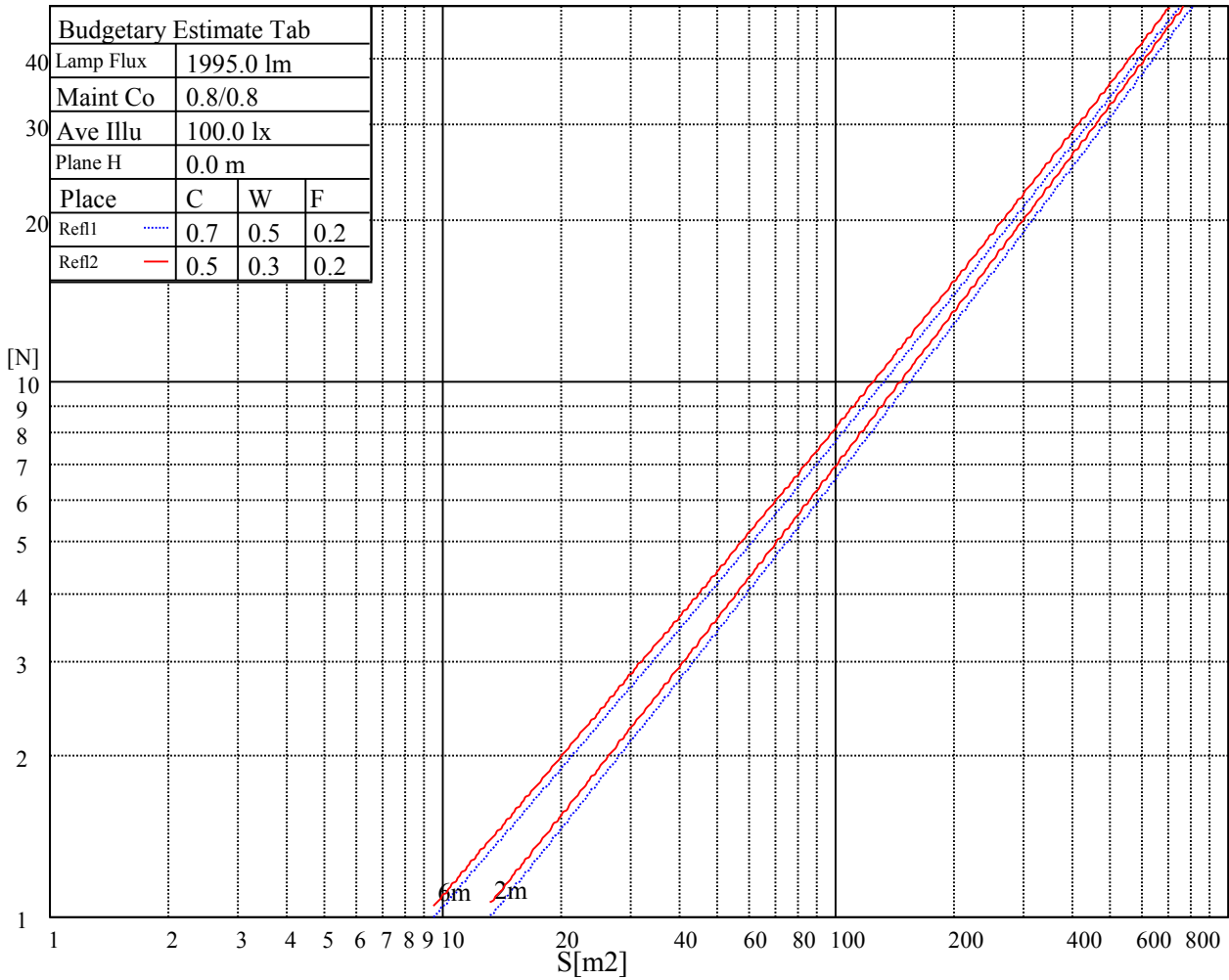
Glare Table

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

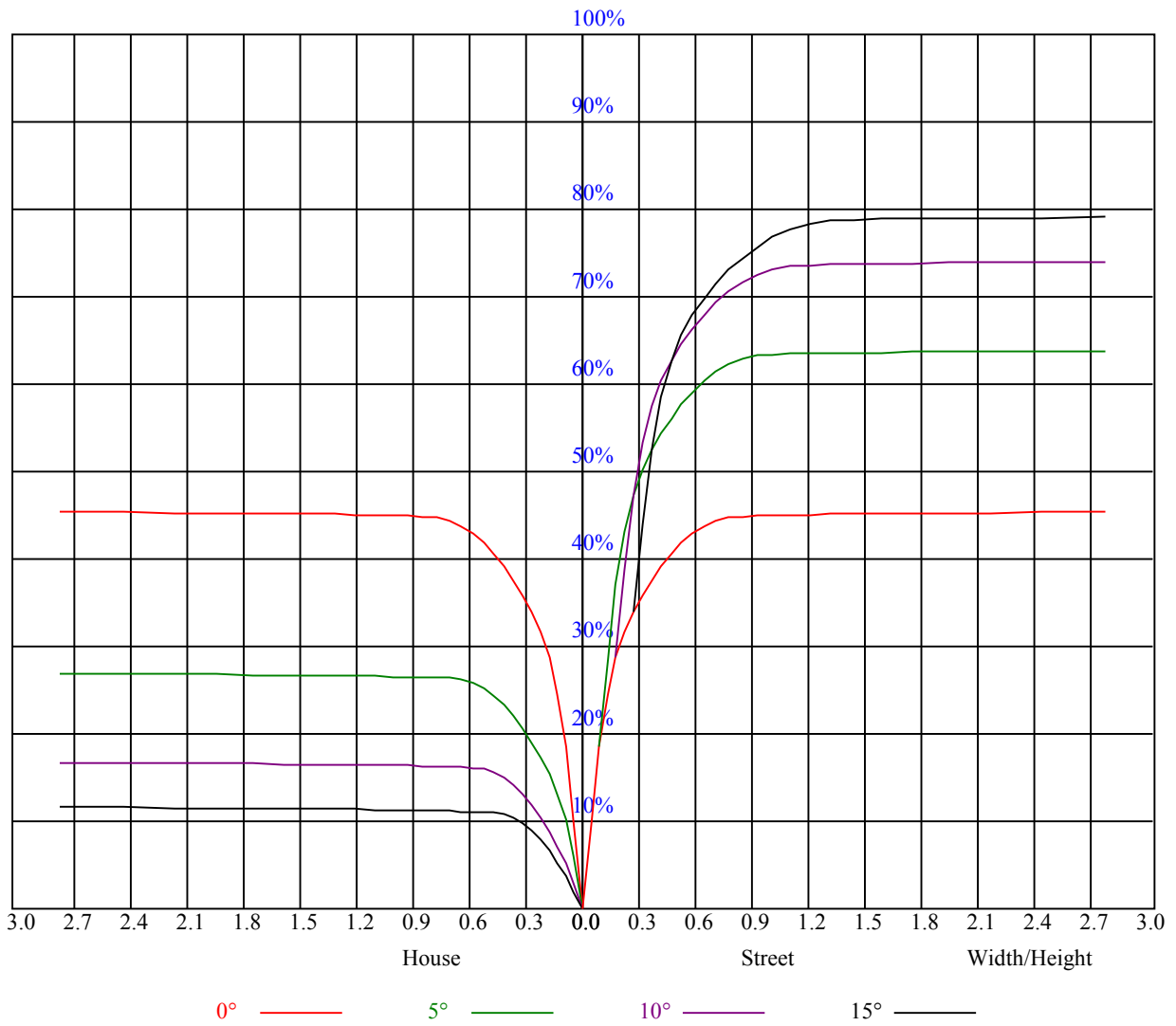
Luminance Limiting Curve



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	1.62	2.53	1.99	2.84	3.16	1.63	2.54	2.00	2.85	3.17
	3H	4.71	5.51	5.09	5.84	6.21	4.74	5.54	5.12	5.87	6.24
	4H	6.42	7.16	6.83	7.52	7.91	6.45	7.19	6.85	7.54	7.93
	6H	8.36	9.04	8.78	9.42	9.81	8.40	9.07	8.82	9.45	9.85
	8H	9.45	10.08	9.88	10.47	10.88	9.48	10.12	9.92	10.51	10.92
	12H	11.21	11.82	11.65	12.20	12.63	11.25	11.85	11.68	12.24	12.67
4H	2H	2.48	3.22	2.89	3.58	3.97	2.49	3.23	2.90	3.59	3.98
	3H	5.83	6.44	6.25	6.85	7.26	5.86	6.47	6.28	6.88	7.29
	4H	7.72	8.27	8.16	8.69	9.14	7.74	8.28	8.18	8.71	9.16
	6H	9.83	10.29	10.30	10.75	11.22	9.86	10.32	10.33	10.77	11.25
	8H	11.01	11.44	11.49	11.90	12.37	11.05	11.48	11.52	11.93	12.40
	12H	12.68	13.05	13.17	13.54	14.02	12.71	13.08	13.20	13.57	14.05
8H	4H	8.44	8.88	8.92	9.33	9.80	8.46	8.89	8.94	9.34	9.82
	6H	10.82	11.16	11.33	11.67	12.15	10.85	11.18	11.36	11.69	12.18
	8H	12.19	12.49	12.73	13.02	13.52	12.22	12.52	12.76	13.05	13.55
	12H	14.00	14.25	14.52	14.75	15.34	14.03	14.29	14.55	14.79	15.37
12H	4H	8.65	9.02	9.14	9.51	9.99	8.66	9.03	9.15	9.52	10.00
	6H	11.33	11.44	11.68	11.91	12.46	11.35	11.46	11.70	11.93	12.48
	8H	12.64	12.90	13.17	13.40	13.98	12.67	12.93	13.20	13.43	14.01
Variation with the observer position at spacings:											
S = 1.0H	5.7/-7.9					5.7/-7.9					
S = 1.5H	8.0/-5.9					8.0/-5.9					
S = 2.0H	9.3/-4.4					9.3/-4.4					
Standard tables:	BK2					BK2					
Uncorrected UGR	-0.3					-0.3					



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	1.02	1.00	0.99	1.00	0.99	0.97	0.97	0.95	0.94	0.93	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	0.89	0.87	0.88	0.86	0.85	0.84
3	0.93	0.89	0.87	0.92	0.89	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.85	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.85	0.82	0.86	0.83	0.81	0.85	0.82	0.80	0.83	0.81	0.79	0.78
5	0.86	0.82	0.79	0.85	0.81	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.81	0.78	0.77	0.76
6	0.83	0.79	0.76	0.82	0.78	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
7	0.80	0.76	0.73	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.75	0.72	0.77	0.74	0.72	0.71
8	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.75	0.72	0.70	0.69
9	0.75	0.71	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
10	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.72	0.69	0.67	0.71	0.68	0.67	0.66





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	18174.38	19215.00	19760.63	19260.00	17848.13	15806.25	13747.50	11632.50	9135.00
45.0	19029.38	19226.25	18691.88	17111.25	15120.00	12858.75	10800.00	8836.88	6840.00
90.0	18742.50	17685.00	16200.00	14135.63	11120.06	9888.19	7788.94	6099.19	4462.31
135.0	18787.50	17527.50	15834.38	13381.88	11356.88	9382.50	7323.75	5501.25	4145.63
180.0	18174.38	16070.63	14096.25	10997.44	9996.75	7644.38	5954.63	4496.06	3126.94
225.0	19029.38	17910.00	16368.75	14512.50	11209.50	9957.94	8057.25	6179.06	4555.69
270.0	18742.50	18956.25	18303.75	16858.13	15103.13	12853.13	10591.88	8685.00	6930.00
315.0	18787.50	19400.63	19018.13	17943.75	16115.63	13916.25	11044.13	9816.19	7484.63
360.0	18174.38	19215.00	19760.63	19260.00	17848.13	15806.25	13747.50	11632.50	9135.00
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7312.50	5686.88	3988.13	2986.88	2891.25	1872.00	1566.56	1368.56	1211.06
45.0	5101.88	3819.38	2874.38	2490.75	1769.06	1517.63	1327.50	1146.38	1043.44
90.0	3329.44	2486.25	1968.19	1663.88	1442.25	1119.77	1106.10	1013.68	935.49
135.0	3015.00	2533.50	1885.50	1576.69	1379.81	1204.31	1068.75	981.00	918.00
180.0	2427.19	1980.00	1616.06	1409.06	1121.06	1106.66	999.23	923.57	874.18
225.0	3426.19	2568.94	2033.44	1717.31	1467.00	1301.06	1115.21	1023.81	943.71
270.0	5028.75	3802.50	2902.50	2261.81	1849.50	1599.75	1393.31	1248.19	1111.50
315.0	5833.13	4416.19	3190.50	2391.75	1947.38	1619.44	1413.00	1116.96	1090.01
360.0	7312.50	5686.88	3988.13	2986.88	2891.25	1872.00	1566.56	1368.56	1211.06
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1072.13	974.25	914.06	865.13	826.88	795.38	770.63	747.56	723.38
45.0	974.25	897.75	857.25	828.00	789.75	763.88	741.94	713.81	693.00
90.0	877.05	837.34	800.94	770.85	747.84	724.67	706.39	688.61	673.31
135.0	865.13	826.31	799.88	772.88	748.13	727.31	705.94	689.63	676.69
180.0	831.04	795.54	767.93	740.64	718.99	698.68	682.54	670.78	659.25
225.0	887.63	835.31	801.90	774.79	747.39	728.04	711.45	695.93	683.61
270.0	996.19	917.44	854.44	808.31	777.38	756.00	729.56	713.25	699.75
315.0	1001.93	935.38	872.44	833.68	797.46	765.68	740.98	720.23	700.59
360.0	1072.13	974.25	914.06	865.13	826.88	795.38	770.63	747.56	723.38
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	702.00	684.56	671.63	657.00	645.19	635.63	624.38	615.38	594.56
45.0	678.38	661.50	648.00	633.38	622.13	611.44	602.44	560.25	491.63
90.0	661.39	645.98	631.52	621.84	611.33	595.13	541.46	455.01	367.93
135.0	661.50	646.31	634.50	623.25	612.56	577.69	507.38	426.38	330.75
180.0	644.79	634.56	623.53	613.01	591.64	533.76	444.26	344.70	251.94
225.0	673.03	655.37	645.47	633.49	621.06	606.60	559.74	455.18	372.71
270.0	682.31	671.63	660.94	646.88	635.06	626.06	613.69	576.56	494.44
315.0	685.46	669.26	657.11	645.13	632.59	622.74	613.29	589.95	525.43
360.0	702.00	684.56	671.63	657.00	645.19	635.63	624.38	615.38	594.56
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	523.69	426.94	331.88	284.06	135.39	60.98	33.53	29.76	26.61
45.0	406.13	287.44	230.29	116.61	49.56	29.87	27.28	24.30	19.63
90.0	276.41	177.86	90.96	41.85	27.56	24.47	20.36	16.26	14.34
135.0	295.31	124.65	62.21	29.98	23.40	20.25	16.54	13.28	12.09
180.0	153.51	68.68	32.18	23.29	20.31	16.54	13.33	12.15	10.80
225.0	272.25	149.12	84.94	37.91	24.19	20.76	17.83	14.68	12.77
270.0	407.25	312.19	288.00	108.00	49.61	29.53	25.76	22.95	19.41
315.0	444.04	349.14	228.60	142.99	75.77	37.29	29.64	26.78	22.44
360.0	523.69	426.94	331.88	284.06	135.39	60.98	33.53	29.76	26.61

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	22.39	19.74	16.71	10.24	9.90	9.68	9.39	9.17	9.06
45.0	17.44	14.91	10.13	9.84	9.62	9.39	9.17	8.94	8.83
90.0	11.76	10.07	9.79	9.51	9.34	9.11	8.94	8.78	8.61
135.0	10.63	10.18	10.01	9.73	9.39	9.28	9.06	8.89	8.72
180.0	10.29	10.01	9.79	9.56	9.39	9.17	9.00	8.83	8.66
225.0	11.48	10.35	10.01	9.68	9.45	9.28	9.06	8.89	8.66
270.0	16.65	14.63	10.46	10.07	9.73	9.45	9.28	9.06	8.89
315.0	18.96	16.09	10.46	9.79	9.56	9.28	9.17	8.94	8.72
360.0	22.39	19.74	16.71	10.24	9.90	9.68	9.39	9.17	9.06
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	8.83	8.66	8.49	8.38	8.27	8.16	8.04	7.99	7.88
45.0	8.66	8.49	8.38	8.27	8.10	8.04	7.99	7.88	7.76
90.0	8.49	8.33	8.21	8.10	7.99	7.99	7.88	7.76	7.71
135.0	8.55	8.38	8.27	8.16	8.10	7.99	7.93	7.82	7.76
180.0	8.55	8.38	8.27	8.16	8.04	7.99	7.88	7.82	7.71
225.0	8.55	8.38	8.27	8.16	8.10	7.99	7.93	7.76	7.76
270.0	8.72	8.49	8.38	8.21	8.10	7.99	7.93	7.82	7.76
315.0	8.61	8.49	8.38	8.21	8.16	8.04	7.93	7.88	7.76
360.0	8.83	8.66	8.49	8.38	8.27	8.16	8.04	7.99	7.88
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	7.82	7.71	7.65	7.59	7.54	7.48	7.48	7.43	7.37
45.0	7.71	7.65	7.59	7.54	7.48	7.48	7.43	7.37	7.37
90.0	7.65	7.59	7.48	7.48	7.43	7.43	7.37	7.37	7.31
135.0	7.65	7.59	7.59	7.48	7.48	7.43	7.43	7.37	7.31
180.0	7.65	7.59	7.54	7.54	7.48	7.43	7.37	7.37	7.37
225.0	7.65	7.59	7.54	7.48	7.43	7.43	7.37	7.37	7.31
270.0	7.71	7.65	7.59	7.48	7.48	7.43	7.43	7.37	7.31
315.0	7.71	7.65	7.59	7.54	7.43	7.43	7.43	7.37	7.37
360.0	7.82	7.71	7.65	7.59	7.54	7.48	7.48	7.43	7.37
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.37	7.37	7.31	7.26	7.26	7.26	7.26	7.26	7.26
45.0	7.31	7.31	7.26	7.26	7.20	7.26	7.20	7.20	7.20
90.0	7.26	7.26	7.26	7.26	7.20	7.20	7.20	7.14	7.14
135.0	7.31	7.31	7.26	7.26	7.20	7.26	7.20	7.20	7.14
180.0	7.31	7.31	7.26	7.26	7.26	7.26	7.26	7.20	7.20
225.0	7.31	7.31	7.26	7.26	7.20	7.20	7.20	7.20	7.20
270.0	7.31	7.31	7.26	7.26	7.20	7.20	7.20	7.20	7.20
315.0	7.31	7.26	7.31	7.26	7.26	7.26	7.20	7.20	7.14
360.0	7.37	7.37	7.31	7.26	7.26	7.26	7.26	7.26	7.26
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.20	7.20	7.20	7.14	7.14	7.14	7.14	7.14	7.14
45.0	7.20	7.14	7.14	7.14	7.14	7.09	7.09	7.09	7.09
90.0	7.14	7.14	7.09	7.09	7.09	7.09	7.09	7.09	7.09
135.0	7.20	7.20	7.14	7.14	7.14	7.09	7.09	7.09	7.09
180.0	7.20	7.20	7.20	7.20	7.20	7.09	7.09	7.14	7.09
225.0	7.20	7.14	7.20	7.20	7.26	7.43	7.14	7.09	7.09
270.0	7.20	7.14	7.14	7.14	7.20	7.20	7.26	7.09	7.09
315.0	7.14	7.20	7.14	7.09	7.14	7.14	7.14	7.09	7.09
360.0	7.20	7.20	7.20	7.14	7.14	7.14	7.14	7.14	7.14

Intensity data(cd)

<b>C/γ(°)</b>	<b>90.0</b>
<b>0.0</b>	<b>7.14</b>
<b>45.0</b>	<b>7.09</b>
<b>90.0</b>	<b>7.03</b>
<b>135.0</b>	<b>7.09</b>
<b>180.0</b>	<b>7.09</b>
<b>225.0</b>	<b>7.09</b>
<b>270.0</b>	<b>7.09</b>
<b>315.0</b>	<b>7.09</b>
<b>360.0</b>	<b>7.14</b>