



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

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## NATA

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LumCAT: 2-1120-A3  
Luminaire: 99.02.73.172+92.76.365.00  
Report No: NATA0100  
Test No: GC2019011606  
LampCAT: CITIZEN CMT1922  
Lamp flux(lm): 2875.4  
Number of Lamps: 1  
Length(mm): 71  
Phm Type: C

Voltage(V): 35.6000  
Current(A): 0.6000  
Power (W): 21.3600  
PF: 0.0000  
Ballast type: DC  
Width(mm): 71  
Height(mm): 0

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## Photometric Results

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Lumens(lm): 2619.75  
Efficiency(%): 91.11%  
Lumens(lm)/Power(W): 122.83  
Central intensity(cd): 16907.340  
Maximum intensity(cd): 16907.340  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=16.2  
                                  [C90/270]Total=16.2  
Field angle(10%Imax): [C0/180]Total=33.1  
                                  [C90/270]Total=33.1  
Maximum s/h(1/2): C0\_180=0.28 C90\_270=0.28  
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(%): 91.25%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.611%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	16907.344	4.045	4.045	.141%	.154%
1.0	16811.016	32.174	36.219	1.119%	1.383%
2.0	16517.813	63.215	99.434	2.199%	3.796%
3.0	15906.797	91.292	190.727	3.175%	7.280%
4.0	14960.391	114.440	305.167	3.980%	11.649%
5.0	13503.234	129.058	434.225	4.488%	16.575%
6.0	11953.617	137.021	571.246	4.765%	21.805%
7.0	10301.836	137.677	708.922	4.788%	27.061%
8.0	8647.102	131.971	840.893	4.590%	32.098%
9.0	6911.859	118.571	959.464	4.124%	36.624%
10.0	5415.117	103.117	1062.581	3.586%	40.560%
11.0	4360.008	91.230	1153.811	3.173%	44.043%
12.0	3520.547	80.268	1234.079	2.792%	47.107%
13.0	2894.203	71.395	1305.474	2.483%	49.832%
14.0	2443.852	64.834	1370.308	2.255%	52.307%
15.0	2069.367	58.733	1429.041	2.043%	54.549%
16.0	1796.555	54.304	1483.345	1.889%	56.622%
17.0	1603.547	51.413	1534.758	1.788%	58.584%
18.0	1453.359	49.250	1584.008	1.713%	60.464%
19.0	1344.867	48.015	1632.022	1.670%	62.297%
20.0	1264.078	47.411	1679.433	1.649%	64.107%
21.0	1201.852	47.231	1726.665	1.643%	65.909%
22.0	1153.434	47.383	1774.047	1.648%	67.718%
23.0	1114.882	47.770	1821.818	1.661%	69.542%
24.0	1079.170	48.134	1869.952	1.674%	71.379%
25.0	1046.025	48.478	1918.43	1.686%	73.229%
26.0	1018.561	48.964	1967.394	1.703%	75.098%
27.0	993.234	49.448	2016.842	1.720%	76.986%
28.0	970.355	49.956	2066.799	1.737%	78.893%
29.0	948.122	50.407	2117.205	1.753%	80.817%
30.0	928.702	50.921	2168.127	1.771%	82.761%
31.0	910.146	51.405	2219.531	1.788%	84.723%
32.0	886.219	51.499	2271.031	1.791%	86.689%
33.0	845.459	50.496	2321.526	1.756%	88.616%
34.0	780.202	47.843	2369.369	1.664%	90.443%
35.0	693.710	43.634	2413.003	1.517%	92.108%
36.0	598.823	38.598	2451.601	1.342%	93.581%
37.0	506.391	33.420	2485.021	1.162%	94.857%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	405.780	27.396	2512.417	.953%	95.903%
39.0	303.757	20.963	2533.379	.729%	96.703%
40.0	234.563	16.534	2549.913	.575%	97.334%
41.0	131.513	9.462	2559.375	.329%	97.695%
42.0	72.070	5.288	2564.663	.184%	97.897%
43.0	37.997	2.842	2567.505	.099%	98.006%
44.0	27.429	2.089	2569.595	.073%	98.085%
45.0	21.677	1.681	2571.275	.058%	98.150%
46.0	16.791	1.325	2572.6	.046%	98.200%
47.0	14.541	1.166	2573.766	.041%	98.245%
48.0	13.402	1.092	2574.858	.038%	98.286%
49.0	12.579	1.041	2575.899	.036%	98.326%
50.0	12.284	1.032	2576.931	.036%	98.365%
51.0	12.059	1.028	2577.959	.036%	98.405%
52.0	11.890	1.027	2578.986	.036%	98.444%
53.0	11.693	1.024	2580.01	.036%	98.483%
54.0	11.559	1.026	2581.036	.036%	98.522%
55.0	11.447	1.028	2582.064	.036%	98.561%
56.0	11.320	1.029	2583.093	.036%	98.601%
57.0	11.222	1.032	2584.125	.036%	98.640%
58.0	11.138	1.036	2585.161	.036%	98.680%
59.0	11.053	1.039	2586.2	.036%	98.719%
60.0	10.983	1.043	2587.243	.036%	98.759%
61.0	10.905	1.046	2588.289	.036%	98.799%
62.0	10.842	1.050	2589.339	.037%	98.839%
63.0	10.814	1.057	2590.396	.037%	98.879%
64.0	10.765	1.061	2591.457	.037%	98.920%
65.0	10.723	1.066	2592.522	.037%	98.961%
66.0	10.688	1.071	2593.593	.037%	99.001%
67.0	10.645	1.075	2594.667	.037%	99.042%
68.0	10.617	1.080	2595.747	.038%	99.084%
69.0	10.589	1.084	2596.831	.038%	99.125%
70.0	10.575	1.090	2597.921	.038%	99.167%
71.0	10.540	1.093	2599.014	.038%	99.208%
72.0	10.533	1.099	2600.112	.038%	99.250%
73.0	10.491	1.100	2601.212	.038%	99.292%
74.0	10.484	1.105	2602.317	.038%	99.334%
75.0	10.463	1.108	2603.426	.039%	99.377%

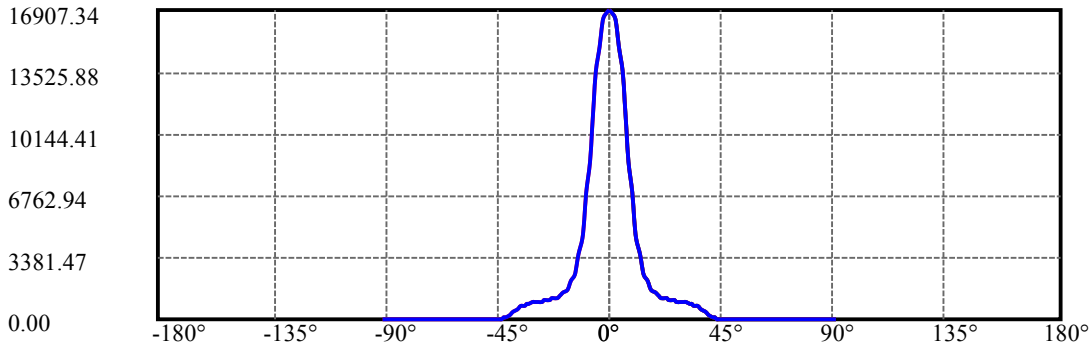
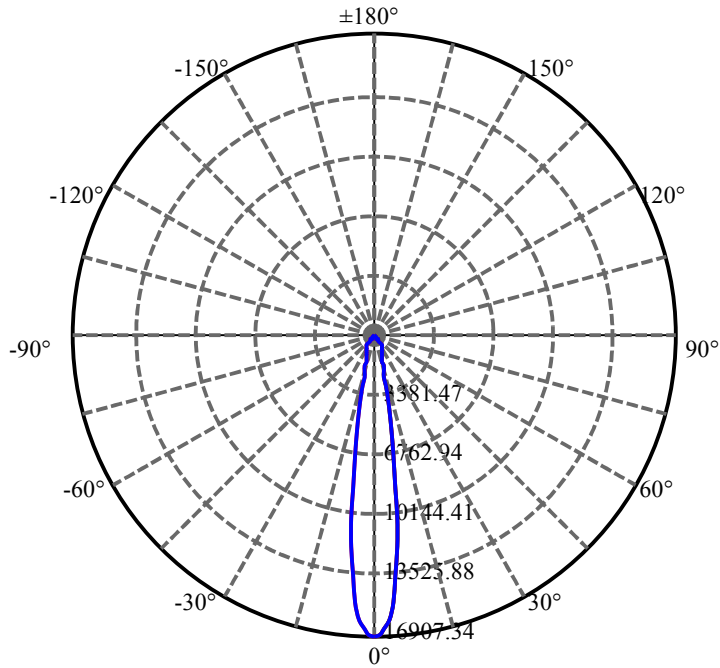
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.448	1.112	2604.537	.039%	99.419%
77.0	10.434	1.115	2605.652	.039%	99.462%
78.0	10.413	1.117	2606.769	.039%	99.504%
79.0	10.427	1.122	2607.892	.039%	99.547%
80.0	10.399	1.123	2609.015	.039%	99.590%
81.0	10.392	1.126	2610.14	.039%	99.633%
82.0	10.385	1.128	2611.268	.039%	99.676%
83.0	10.378	1.130	2612.398	.039%	99.719%
84.0	10.385	1.133	2613.53	.039%	99.763%
85.0	10.371	1.133	2614.663	.039%	99.806%
86.0	10.350	1.132	2615.796	.039%	99.849%
87.0	10.336	1.132	2616.927	.039%	99.892%
88.0	10.329	1.132	2618.059	.039%	99.935%
89.0	10.294	1.129	2619.188	.039%	99.978%
90.0	10.287	0.564	2619.752	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2168.13	75.40%	82.76%
0-40	2549.91	88.68%	97.33%
0-60	2587.24	89.98%	98.76%
0-90	2619.19	91.09%	99.98%
0-120	2619.19	91.09%	99.98%
0-180	2619.75	91.11%	100.00%
60-90	32.99	1.15%	1.26%
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%
0-28.58	2095.80	72.89%	80.00%

ZONAL LUMEN SUMMARY

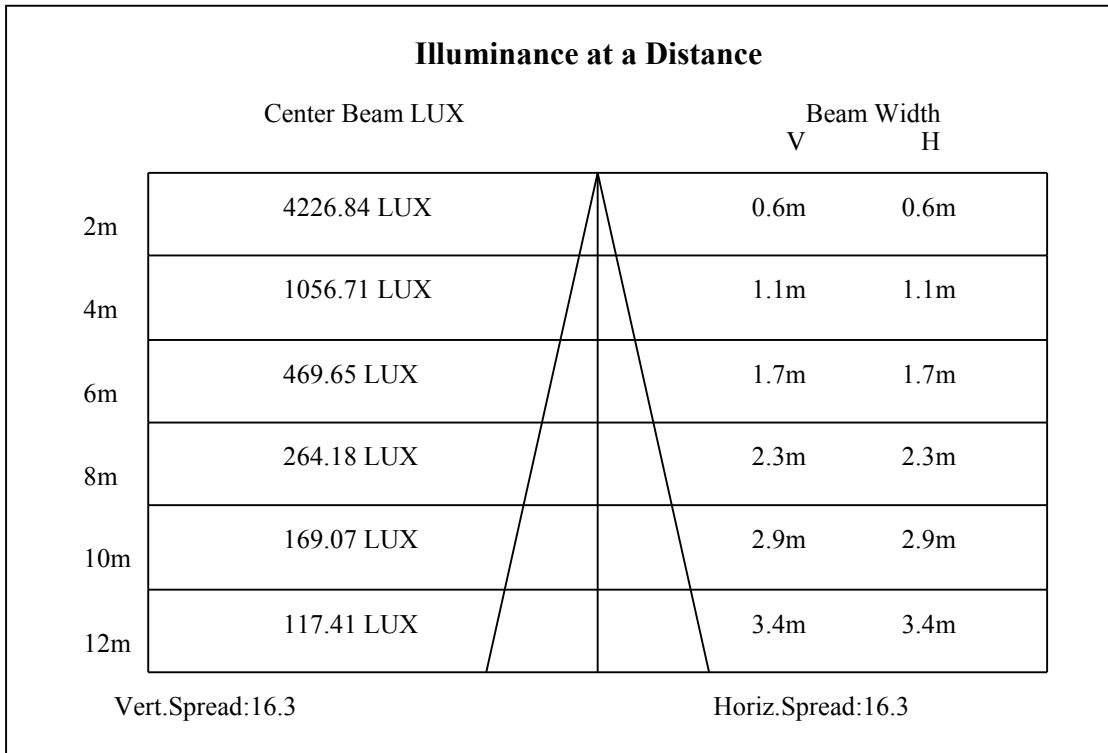
0-10	1062.58
10-20	616.85
20-30	488.69
30-40	381.79
40-50	27.02
50-60	10.31
60-70	10.68
70-80	11.09
80-90	10.17
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

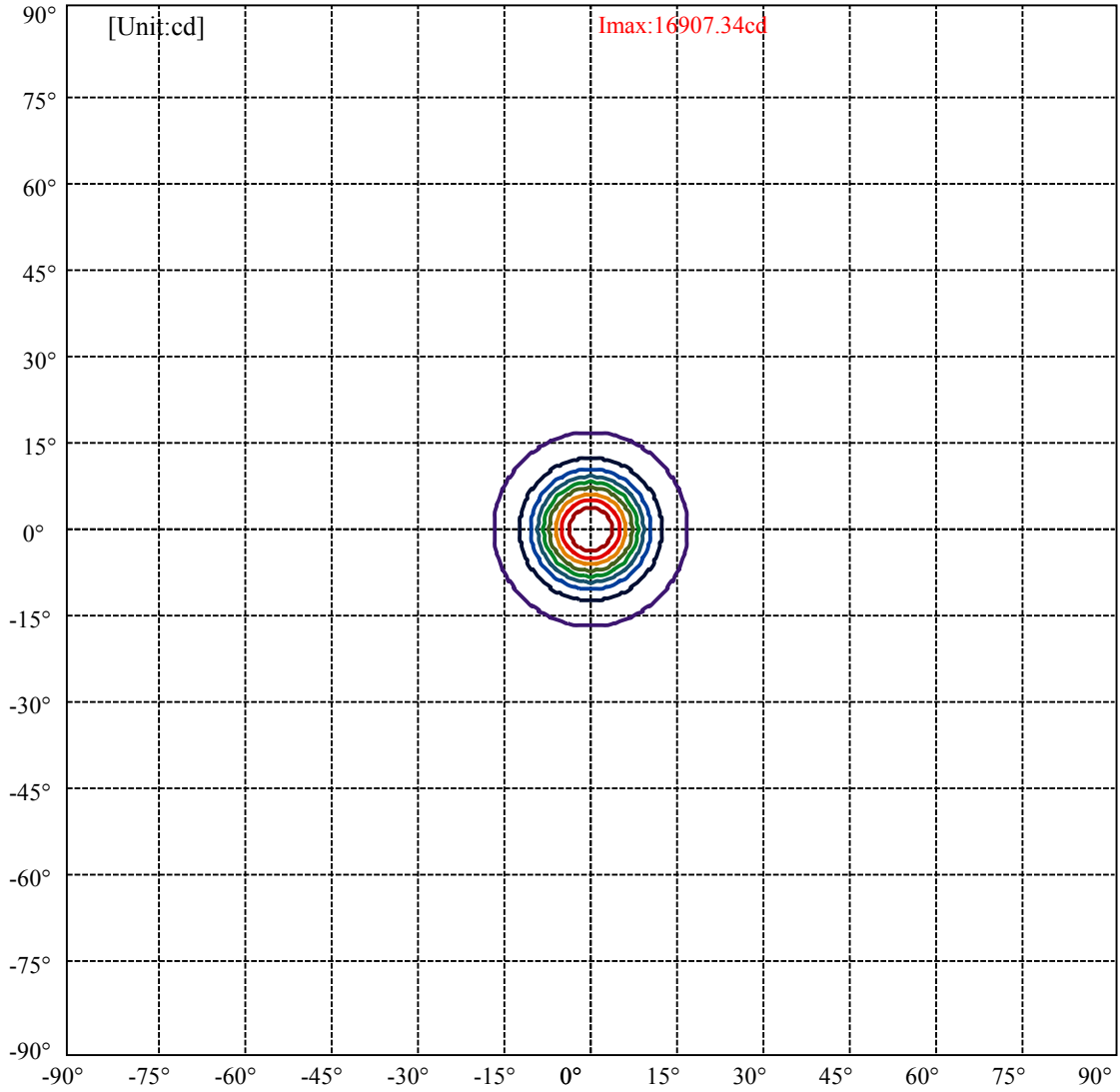


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:16.5 Right:16.5  
:C90/270Left:16.5 Right:16.5

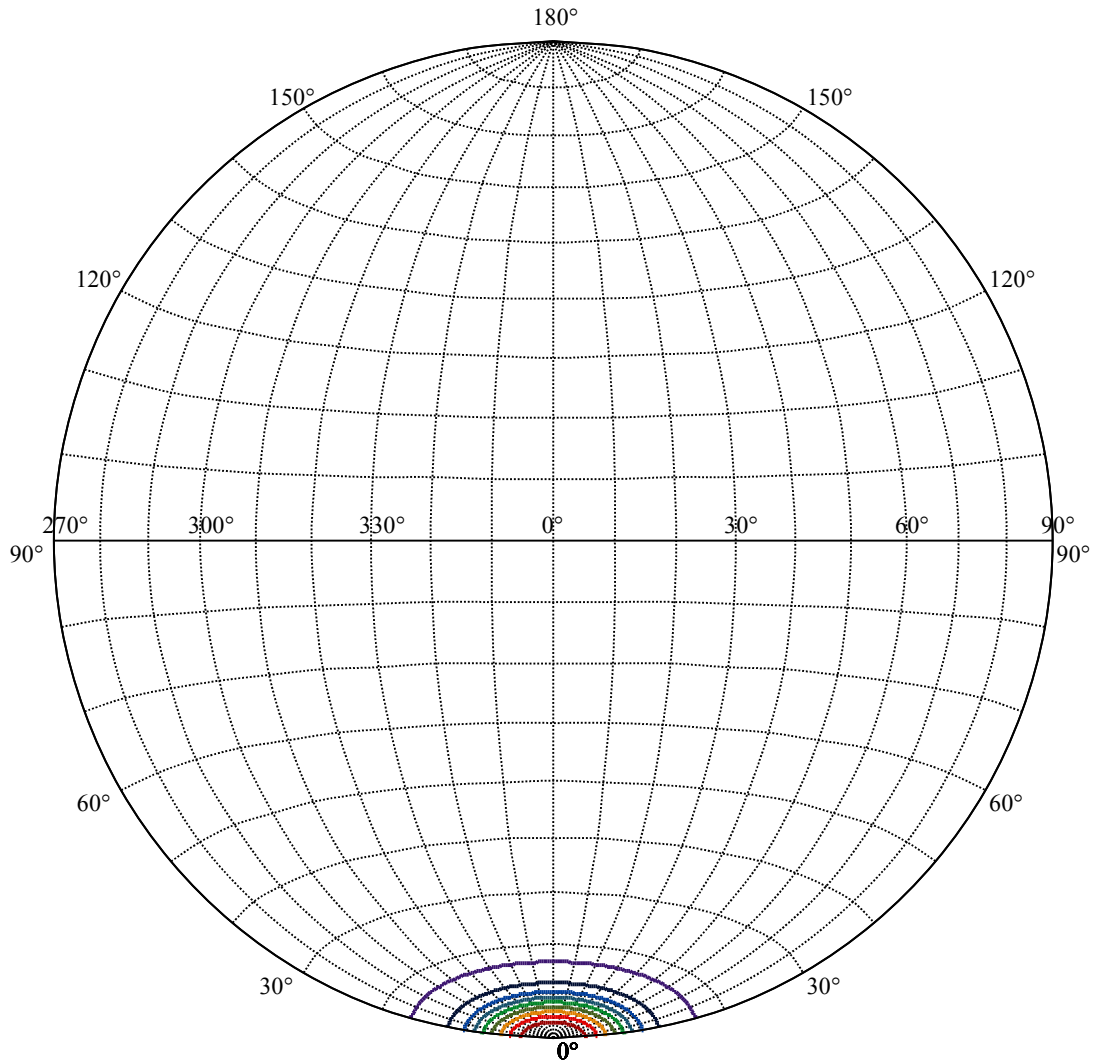
Beam Angle(50%Imax):C0/180Left:8.1 Right:8.1  
:C90/270Left:8.1 Right:8.1





(10%Imax) 1690.73	—
(20%Imax) 3381.47	—
(30%Imax) 5072.2	—
(40%Imax) 6762.94	—
(50%Imax) 8453.67	—
(60%Imax) 10144.4	—
(70%Imax) 11835.1	—
(80%Imax) 13525.9	—
(90%Imax) 15216.6	—





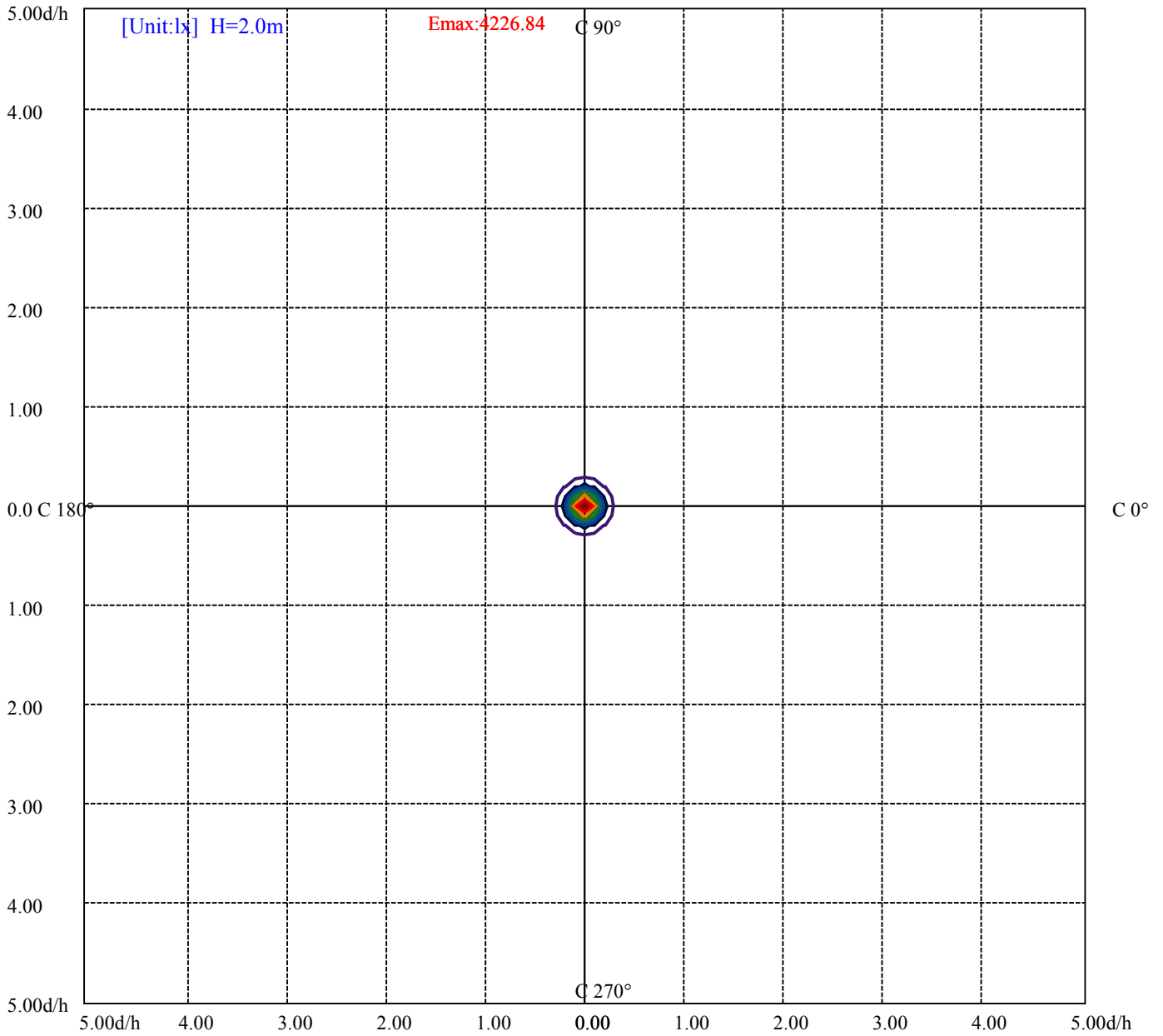
House

[Unit:cd]

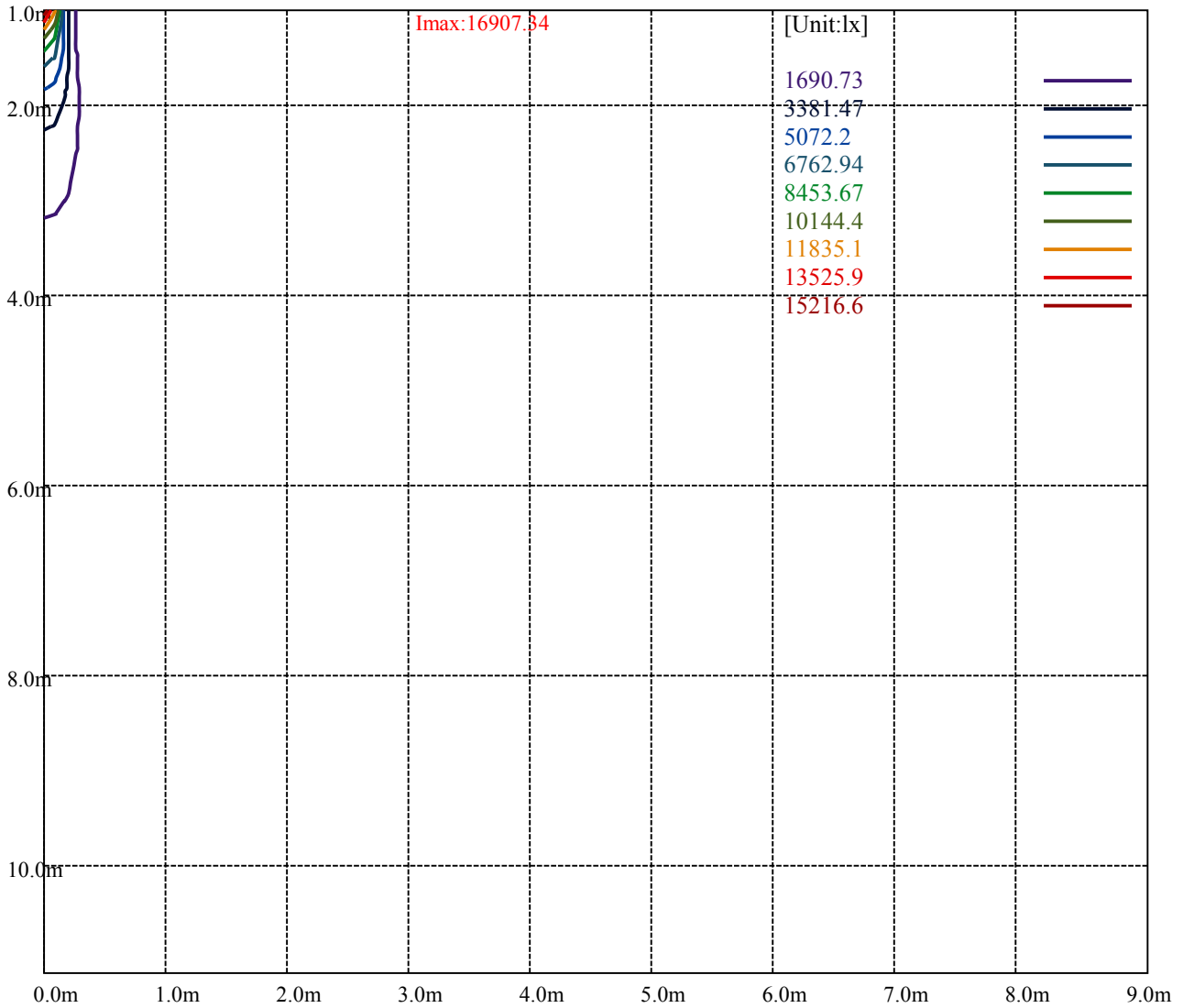
Road

**Imax:16907.34**

(10%Imax) 1690.73	—
(20%Imax) 3381.47	—
(30%Imax) 5072.2	—
(40%Imax) 6762.94	—
(50%Imax) 8453.67	—
(60%Imax) 10144.4	—
(70%Imax) 11835.1	—
(80%Imax) 13525.9	—
(90%Imax) 15216.6	—



(10%Emax) 422.6825	—
(20%Emax) 845.3675	—
(30%Emax) 1268.05	—
(40%Emax) 1690.733	—
(50%Emax) 2113.417	—
(60%Emax) 2536.1	—
(70%Emax) 2958.775	—
(80%Emax) 3381.475	—
(90%Emax) 3804.15	—



Luminance Table

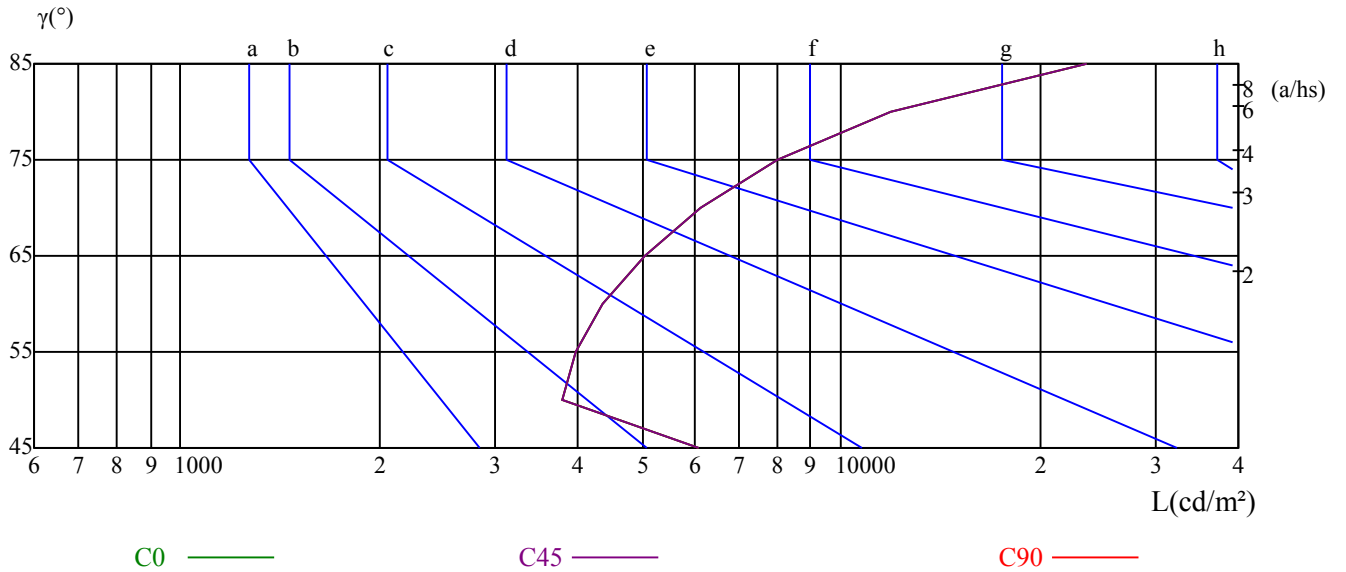
$\gamma$	45	50	55	60	65	70	75	80	85
C0	6081	3791	3959	4357	5033	6134	8019	11880	23605
C45	6081	3791	3959	4357	5033	6134	8019	11880	23605
C90	6081	3791	3959	4357	5033	6134	8019	11880	23605

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5033	5033	5033	8019	8019	8019	23605	23605	23605

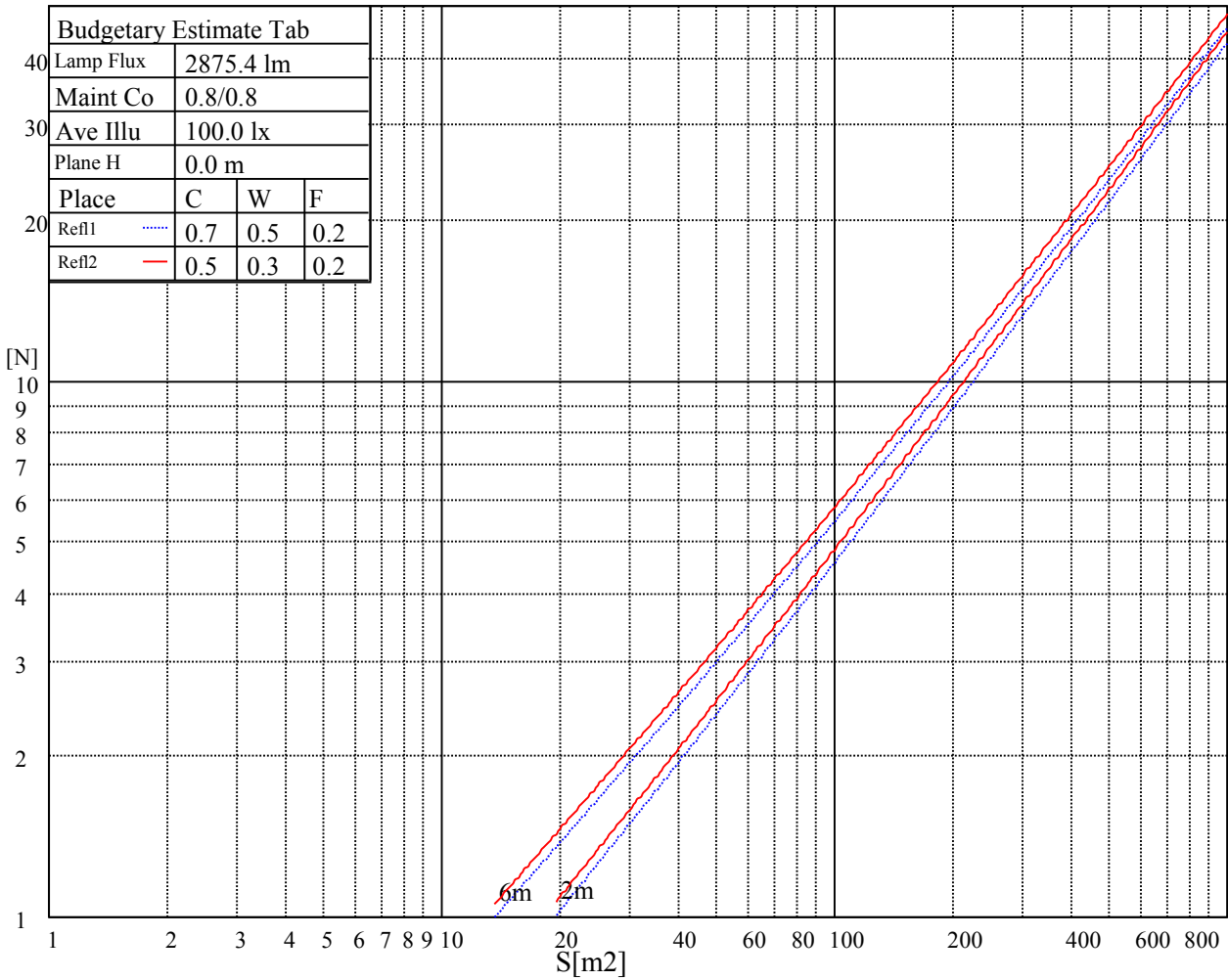
Glare Table

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

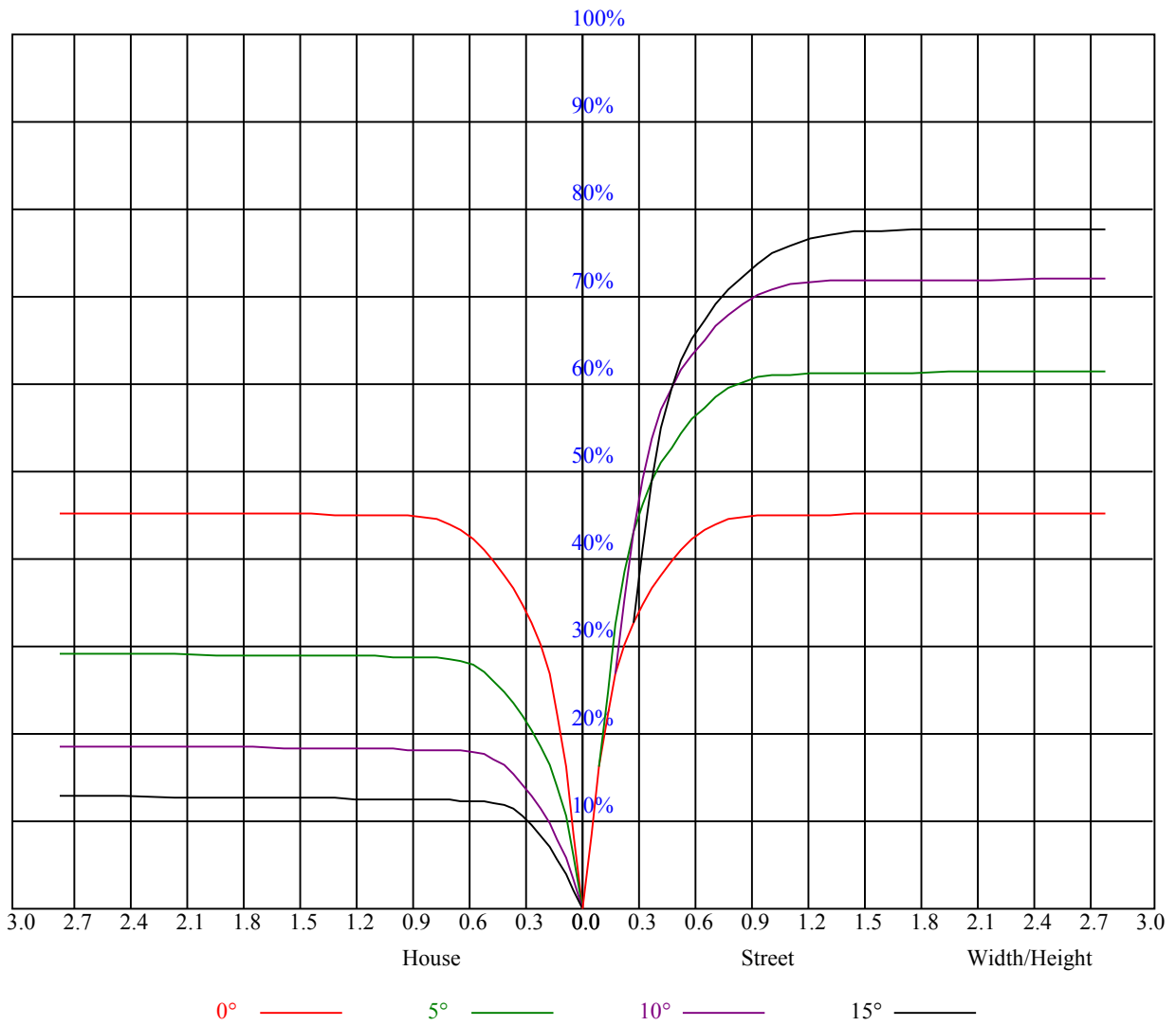
Luminance Limiting Curve



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	2.02	2.93	2.39	3.24	3.56	2.04	2.95	2.40	3.26	3.57
	3H	5.29	6.09	5.68	6.43	6.80	5.30	6.10	5.68	6.43	6.80
	4H	7.07	7.82	7.48	8.17	8.56	7.08	7.82	7.49	8.17	8.56
	6H	9.07	9.75	9.49	10.13	10.53	9.08	9.75	9.50	10.13	10.53
	8H	10.18	10.81	10.62	11.21	11.62	10.19	10.82	10.63	11.22	11.63
	12H	11.96	12.57	12.40	12.96	13.39	11.99	12.60	12.43	12.98	13.41
4H	2H	2.95	3.69	3.35	4.04	4.43	2.95	3.70	3.36	4.05	4.44
	3H	6.45	7.06	6.87	7.47	7.88	6.46	7.07	6.87	7.48	7.88
	4H	8.40	8.94	8.84	9.37	9.82	8.40	8.95	8.84	9.37	9.82
	6H	10.56	11.03	11.03	11.48	11.95	10.56	11.03	11.04	11.48	11.96
	8H	11.76	12.20	12.24	12.65	13.12	11.77	12.21	12.25	12.66	13.13
8H	12H	13.44	13.81	13.93	14.30	14.78	13.47	13.84	13.96	14.33	14.81
	4H	9.14	9.57	9.62	10.02	10.50	9.14	9.57	9.62	10.02	10.50
	6H	11.57	11.91	12.09	12.42	12.90	11.57	11.91	12.08	12.42	12.90
	8H	12.96	13.27	13.50	13.79	14.29	12.97	13.27	13.51	13.80	14.30
12H	12H	14.77	15.03	15.30	15.53	16.11	14.80	15.06	15.33	15.56	16.14
	4H	9.35	9.72	9.84	10.21	10.69	9.35	9.72	9.85	10.21	10.69
	6H	12.09	12.20	12.43	12.67	13.22	12.09	12.20	12.43	12.67	13.22
	8H	13.42	13.67	13.94	14.17	14.76	13.43	13.69	13.95	14.18	14.77
Variation with the observer position at spacings:											
S = 1.0H	5.3/-8.5					5.3/-8.5					
S = 1.5H	7.7/-6.5					7.7/-6.5					
S = 2.0H	9.1/-4.9					9.1/-4.9					
Standard tables:	BK2					BK2					
Uncorrected UGR	2.1					2.1					



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	1.01	1.01	1.01	0.97	0.97	0.97	0.93	0.93	0.93	0.91
1	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.97	0.94	0.91	0.95	0.92	0.90	0.92	0.90	0.88	0.90	0.88	0.86	0.87	0.86	0.85	0.83
3	0.92	0.88	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.86	0.84	0.82	0.85	0.83	0.81	0.80
4	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.80	0.83	0.81	0.79	0.82	0.80	0.78	0.77
5	0.84	0.80	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.79	0.77	0.75	0.74
6	0.81	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.70	0.69
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.64	0.63





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	16858.13	16936.88	16846.88	16543.13	15952.50	14866.88	13387.50	11818.13	10158.75
45.0	16953.75	16875.00	16560.00	15930.00	15069.38	13865.63	11986.88	10321.88	8628.75
90.0	16897.50	16650.00	16188.75	15356.25	14135.63	12245.63	11151.56	9034.31	7382.25
135.0	16920.00	16762.50	16402.50	15615.00	14647.50	13393.13	11514.38	9860.63	8218.13
180.0	16858.13	16554.38	16070.63	15170.63	13876.88	11062.13	10856.81	8541.56	7138.69
225.0	16953.75	16863.75	16537.50	15997.50	15035.63	13809.38	11171.81	10356.19	8700.75
270.0	16897.50	16942.50	16807.50	16385.63	15727.50	14574.38	13235.63	11508.75	9877.50
315.0	16920.00	16903.13	16728.75	16256.25	15238.13	14208.75	12324.38	10973.25	9072.00
360.0	16858.13	16936.88	16846.88	16543.13	15952.50	14866.88	13387.50	11818.13	10158.75
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8066.25	6530.63	5220.00	4061.25	3217.50	2857.50	2221.88	1894.50	1680.19
45.0	6654.38	5321.25	4263.75	3386.25	2880.00	2350.69	1999.69	1761.19	1556.44
90.0	5920.31	4503.94	3679.31	3056.06	2529.00	2143.69	1882.69	1654.31	1497.38
135.0	6328.13	5085.00	4117.50	3307.50	2891.25	2337.75	2008.13	1759.50	1586.81
180.0	5738.63	4278.38	3603.38	3011.63	2512.69	2145.38	1892.81	1671.19	1512.00
225.0	7123.50	5451.75	4404.38	3603.38	2936.25	2451.38	2135.25	1865.25	1658.25
270.0	8038.13	6361.88	5113.13	4128.75	3223.13	2874.38	2352.94	1955.81	1740.94
315.0	7425.56	5788.13	4478.63	3609.56	2963.81	2390.06	2061.56	1810.69	1596.38
360.0	8066.25	6530.63	5220.00	4061.25	3217.50	2857.50	2221.88	1894.50	1680.19
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1505.25	1391.06	1298.25	1229.63	1182.94	1141.31	1104.19	1074.38	1046.81
45.0	1414.69	1324.13	1249.88	1191.38	1149.75	1111.50	1073.81	1038.38	1011.94
90.0	1365.19	1275.75	1217.25	1166.06	1114.03	1084.33	1053.28	1015.76	994.78
135.0	1437.75	1334.81	1248.19	1182.94	1140.19	1101.38	1067.06	1040.63	1015.31
180.0	1376.44	1280.25	1217.25	1161.00	1119.32	1083.26	1054.86	1025.83	998.33
225.0	1512.56	1381.50	1294.31	1221.19	1160.44	1120.22	1079.94	1047.83	1017.23
270.0	1572.75	1427.63	1324.69	1258.88	1202.06	1160.44	1117.69	1077.19	1045.13
315.0	1442.25	1343.81	1262.81	1203.75	1158.75	1116.62	1082.53	1048.22	1018.97
360.0	1505.25	1391.06	1298.25	1229.63	1182.94	1141.31	1104.19	1074.38	1046.81
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1017.00	996.19	975.94	954.00	933.75	916.88	887.06	826.88	754.88
45.0	988.31	963.56	942.19	924.19	902.25	880.88	839.81	764.44	673.88
90.0	973.63	950.23	928.63	911.31	894.60	865.01	815.40	748.13	657.45
135.0	987.19	966.38	946.13	925.88	906.19	885.94	839.25	775.69	687.94
180.0	975.60	952.03	926.89	907.99	889.99	851.91	794.31	722.87	632.64
225.0	993.88	971.44	948.09	930.43	913.11	890.72	856.24	785.31	694.74
270.0	1014.19	987.75	966.38	942.19	923.63	904.50	876.38	826.31	746.44
315.0	996.08	975.26	950.74	933.64	917.66	893.93	855.23	792.00	701.72
360.0	1017.00	996.19	975.94	954.00	933.75	916.88	887.06	826.88	754.88
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	660.94	569.81	463.50	369.00	287.44	180.23	110.19	49.61	29.64
45.0	586.69	486.56	396.56	299.25	233.78	121.33	59.06	31.95	26.38
90.0	558.84	467.49	364.16	262.97	176.63	97.43	52.03	31.16	24.81
135.0	592.31	500.63	397.13	297.56	286.88	126.11	63.56	35.78	29.08
180.0	534.04	443.31	342.90	243.11	161.10	87.24	48.26	32.34	24.75
225.0	605.93	515.03	410.68	307.86	221.68	134.94	74.25	39.04	28.69
270.0	650.25	559.69	465.19	347.63	291.38	172.18	95.85	47.25	29.70
315.0	601.59	508.61	406.13	302.68	217.63	132.64	73.35	36.84	26.38
360.0	660.94	569.81	463.50	369.00	287.44	180.23	110.19	49.61	29.64

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	25.26	19.07	15.47	14.46	12.83	12.43	12.21	12.04	11.76
45.0	20.98	15.81	14.57	13.44	12.54	12.32	12.09	11.93	11.81
90.0	18.79	15.36	13.84	12.60	12.26	12.04	11.87	11.76	11.59
135.0	21.21	16.71	15.13	13.44	12.49	12.26	11.98	11.81	11.64
180.0	18.84	16.20	14.12	12.60	12.32	12.04	11.87	11.76	11.59
225.0	22.39	16.54	14.74	13.67	12.88	12.49	12.21	11.87	11.76
270.0	24.41	18.11	14.51	13.73	12.88	12.54	12.32	12.15	11.76
315.0	21.54	16.54	13.95	13.28	12.43	12.15	11.93	11.81	11.64
360.0	25.26	19.07	15.47	14.46	12.83	12.43	12.21	12.04	11.76
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	11.64	11.53	11.42	11.31	11.19	11.14	11.03	10.97	10.91
45.0	11.64	11.53	11.42	11.31	11.25	11.14	11.08	10.97	10.91
90.0	11.48	11.36	11.25	11.19	11.08	11.03	10.97	10.91	10.80
135.0	11.53	11.42	11.25	11.19	11.14	11.03	10.97	10.86	10.80
180.0	11.48	11.36	11.25	11.14	11.08	10.97	10.91	10.86	10.80
225.0	11.59	11.48	11.36	11.19	11.14	11.03	10.97	10.91	10.86
270.0	11.59	11.48	11.36	11.25	11.14	11.08	10.97	10.91	10.86
315.0	11.53	11.42	11.25	11.19	11.08	11.03	10.97	10.86	10.80
360.0	11.64	11.53	11.42	11.31	11.19	11.14	11.03	10.97	10.91
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.86	10.80	10.80	10.74	10.69	10.69	10.63	10.58	10.58
45.0	10.86	10.80	10.74	10.74	10.69	10.69	10.63	10.58	10.52
90.0	10.80	10.74	10.69	10.69	10.63	10.58	10.58	10.58	10.52
135.0	10.80	10.74	10.69	10.69	10.63	10.58	10.58	10.58	10.52
180.0	10.80	10.74	10.69	10.63	10.58	10.58	10.58	10.58	10.52
225.0	10.80	10.80	10.74	10.69	10.69	10.63	10.58	10.58	10.58
270.0	10.80	10.74	10.74	10.63	10.63	10.58	10.58	10.58	10.58
315.0	10.80	10.74	10.69	10.69	10.63	10.63	10.58	10.58	10.52
360.0	10.86	10.80	10.80	10.74	10.69	10.69	10.63	10.58	10.58
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.58	10.52	10.52	10.46	10.46	10.41	10.46	10.46	10.41
45.0	10.58	10.52	10.52	10.46	10.46	10.46	10.41	10.46	10.41
90.0	10.52	10.46	10.46	10.46	10.41	10.41	10.35	10.41	10.35
135.0	10.52	10.46	10.46	10.46	10.46	10.41	10.41	10.41	10.41
180.0	10.52	10.46	10.41	10.46	10.46	10.41	10.41	10.41	10.41
225.0	10.52	10.52	10.46	10.46	10.46	10.46	10.46	10.41	10.41
270.0	10.52	10.52	10.52	10.46	10.46	10.46	10.41	10.46	10.41
315.0	10.52	10.46	10.52	10.46	10.41	10.46	10.41	10.41	10.41
360.0	10.58	10.52	10.52	10.46	10.46	10.41	10.46	10.46	10.41
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.41	10.41	10.41	10.41	10.41	10.41	10.52	10.46	10.29
45.0	10.46	10.41	10.35	10.35	10.35	10.35	10.29	10.29	10.29
90.0	10.35	10.35	10.35	10.35	10.29	10.29	10.29	10.29	10.29
135.0	10.35	10.35	10.35	10.35	10.35	10.29	10.29	10.29	10.29
180.0	10.35	10.35	10.35	10.41	10.46	10.29	10.29	10.29	10.29
225.0	10.41	10.41	10.41	10.41	10.35	10.35	10.29	10.29	10.29
270.0	10.41	10.41	10.41	10.41	10.41	10.35	10.29	10.35	10.29
315.0	10.41	10.41	10.41	10.41	10.35	10.46	10.41	10.35	10.29
360.0	10.41	10.41	10.41	10.41	10.41	10.41	10.52	10.46	10.29

Intensity data(cd)

C/ $\gamma$ (°)	90.0
0.0	10.29
45.0	10.29
90.0	10.29
135.0	10.29
180.0	10.29
225.0	10.29
270.0	10.24
315.0	10.29
360.0	10.29