



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: 2-1740-M	
Luminaire: 92.70.134.00	
Report No: NATA0100	Voltage(V): 35.9500
Test No: GC2019012116	Current(A): 0.7000
LampCAT: CREE CXA2520	Power (W): 25.1650
Lamp flux(lm): 2276.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 70	Width(mm): 70
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 2011.87  
Efficiency(%): 88.39%  
Lumens(lm)/Power(W): 79.99  
Central intensity(cd): 5189.906  
Maximum intensity(cd): 5190.188  
Angle of maximum intensity: C=0.0  $\gamma$ =1.0  
Beam Angle(50%Imax): [C0/180]Total=31.2  
                                  [C90/270]Total=31.2  
Field angle(10%Imax): [C0/180]Total=69.4  
                                  [C90/270]Total=69.4  
Maximum s/h(1/2): C0\_180=0.53 C90\_270=0.53  
Maximum s/h(1/4): C0\_180=0.48 C90\_270=0.48  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 88.45%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.561%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5189.906	1.242	1.242	.055%	.062%
1.0	5190.188	9.933	11.175	.436%	.555%
2.0	5187.375	19.853	31.028	.872%	1.542%
3.0	5175.141	29.701	60.729	1.305%	3.019%
4.0	5147.367	39.375	100.104	1.730%	4.976%
5.0	5095.055	48.696	148.8	2.140%	7.396%
6.0	5021.297	57.558	206.358	2.529%	10.257%
7.0	4925.039	65.820	272.177	2.892%	13.529%
8.0	4806.352	73.354	345.531	3.223%	17.175%
9.0	4644.492	79.675	425.206	3.501%	21.135%
10.0	4438.055	84.511	509.718	3.713%	25.336%
11.0	4208.836	88.067	597.784	3.869%	29.713%
12.0	3923.719	89.460	687.244	3.931%	34.159%
13.0	3579.328	88.296	775.54	3.879%	38.548%
14.0	3210.609	85.175	860.716	3.742%	42.782%
15.0	2830.219	80.328	941.044	3.529%	46.775%
16.0	2453.625	74.165	1015.209	3.259%	50.461%
17.0	2086.453	66.895	1082.104	2.939%	53.786%
18.0	1759.781	59.634	1141.738	2.620%	56.750%
19.0	1513.969	54.052	1195.79	2.375%	59.437%
20.0	1282.718	48.110	1243.9	2.114%	61.828%
21.0	1136.981	44.682	1288.582	1.963%	64.049%
22.0	1043.241	42.856	1331.438	1.883%	66.179%
23.0	963.851	41.299	1372.737	1.815%	68.232%
24.0	905.020	40.367	1413.104	1.774%	70.238%
25.0	863.993	40.041	1453.145	1.759%	72.229%
26.0	829.849	39.893	1493.038	1.753%	74.211%
27.0	802.891	39.972	1533.01	1.756%	76.198%
28.0	779.934	40.153	1573.163	1.764%	78.194%
29.0	759.326	40.369	1613.532	1.774%	80.201%
30.0	739.772	40.562	1654.094	1.782%	82.217%
31.0	712.448	40.239	1694.333	1.768%	84.217%
32.0	668.637	38.855	1733.188	1.707%	86.148%
33.0	619.411	36.995	1770.183	1.625%	87.987%
34.0	565.678	34.688	1804.871	1.524%	89.711%
35.0	499.310	31.406	1836.277	1.380%	91.272%
36.0	436.549	28.139	1864.416	1.236%	92.671%
37.0	377.058	24.884	1889.3	1.093%	93.908%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	311.955	21.061	1910.361	.925%	94.955%
39.0	255.220	17.613	1927.975	.774%	95.830%
40.0	194.723	13.726	1941.7	.603%	96.512%
41.0	134.381	9.668	1951.368	.425%	96.993%
42.0	85.613	6.282	1957.65	.276%	97.305%
43.0	50.695	3.791	1961.442	.167%	97.494%
44.0	31.416	2.393	1963.835	.105%	97.612%
45.0	24.370	1.890	1965.725	.083%	97.706%
46.0	21.389	1.687	1967.412	.074%	97.790%
47.0	18.788	1.507	1968.919	.066%	97.865%
48.0	17.276	1.408	1970.327	.062%	97.935%
49.0	16.291	1.348	1971.675	.059%	98.002%
50.0	15.159	1.273	1972.948	.056%	98.065%
51.0	14.365	1.224	1974.173	.054%	98.126%
52.0	13.767	1.190	1975.362	.052%	98.185%
53.0	13.247	1.160	1976.522	.051%	98.243%
54.0	12.811	1.137	1977.659	.050%	98.300%
55.0	12.445	1.118	1978.777	.049%	98.355%
56.0	12.059	1.096	1979.873	.048%	98.410%
57.0	11.679	1.074	1980.947	.047%	98.463%
58.0	11.370	1.057	1982.005	.046%	98.516%
59.0	11.074	1.041	1983.046	.046%	98.567%
60.0	10.814	1.027	1984.073	.045%	98.618%
61.0	10.582	1.015	1985.088	.045%	98.669%
62.0	10.378	1.005	1986.092	.044%	98.719%
63.0	10.195	0.996	1987.089	.044%	98.768%
64.0	10.005	0.986	1988.075	.043%	98.817%
65.0	9.872	0.981	1989.056	.043%	98.866%
66.0	9.696	0.971	1990.027	.043%	98.914%
67.0	9.555	0.965	1990.992	.042%	98.962%
68.0	9.415	0.957	1991.949	.042%	99.010%
69.0	9.295	0.952	1992.901	.042%	99.057%
70.0	9.176	0.946	1993.846	.042%	99.104%
71.0	9.070	0.940	1994.787	.041%	99.151%
72.0	8.972	0.936	1995.722	.041%	99.197%
73.0	8.888	0.932	1996.654	.041%	99.244%
74.0	8.824	0.930	1997.585	.041%	99.290%
75.0	8.740	0.926	1998.51	.041%	99.336%

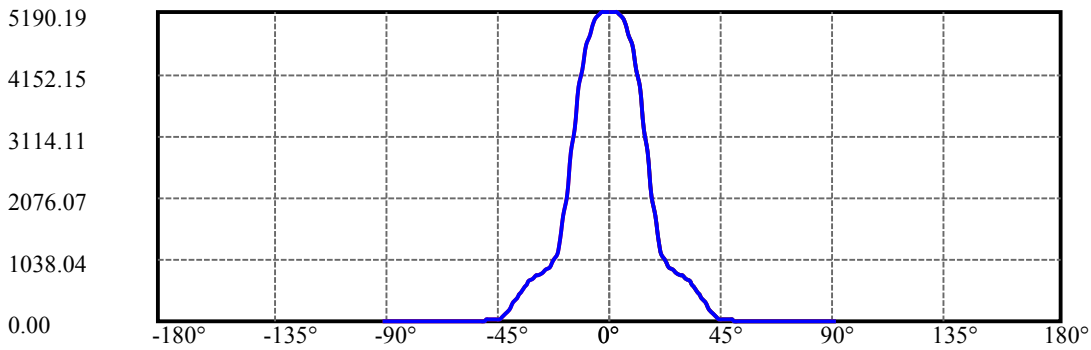
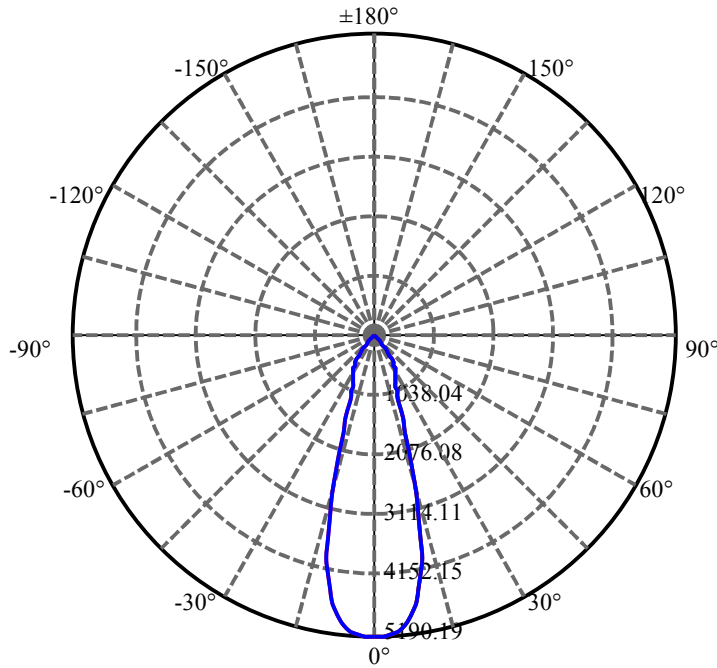
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	8.677	0.923	1999.434	.041%	99.382%
77.0	8.670	0.926	2000.36	.041%	99.428%
78.0	8.705	0.934	2001.294	.041%	99.474%
79.0	8.775	0.945	2002.238	.042%	99.521%
80.0	8.761	0.946	2003.184	.042%	99.568%
81.0	8.691	0.941	2004.126	.041%	99.615%
82.0	8.585	0.932	2005.058	.041%	99.661%
83.0	8.459	0.921	2005.979	.040%	99.707%
84.0	8.388	0.915	2006.893	.040%	99.753%
85.0	8.346	0.912	2007.805	.040%	99.798%
86.0	8.325	0.911	2008.716	.040%	99.843%
87.0	8.241	0.902	2009.618	.040%	99.888%
88.0	8.213	0.900	2010.518	.040%	99.933%
89.0	8.220	0.901	2011.42	.040%	99.978%
90.0	8.198	0.450	2011.869	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1654.09	72.68%	82.22%
0-40	1941.70	85.31%	96.51%
0-60	1984.07	87.17%	98.62%
0-90	2011.42	88.38%	99.98%
0-120	2011.42	88.38%	99.98%
0-180	2011.87	88.39%	100.00%
60-90	28.37	1.25%	1.41%
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%
0-28.90	1609.50	70.72%	80.00%

ZONAL LUMEN SUMMARY

0-10	509.72
10-20	734.18
20-30	410.19
30-40	287.61
40-50	31.25
50-60	11.12
60-70	9.77
70-80	9.34
80-90	8.24
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

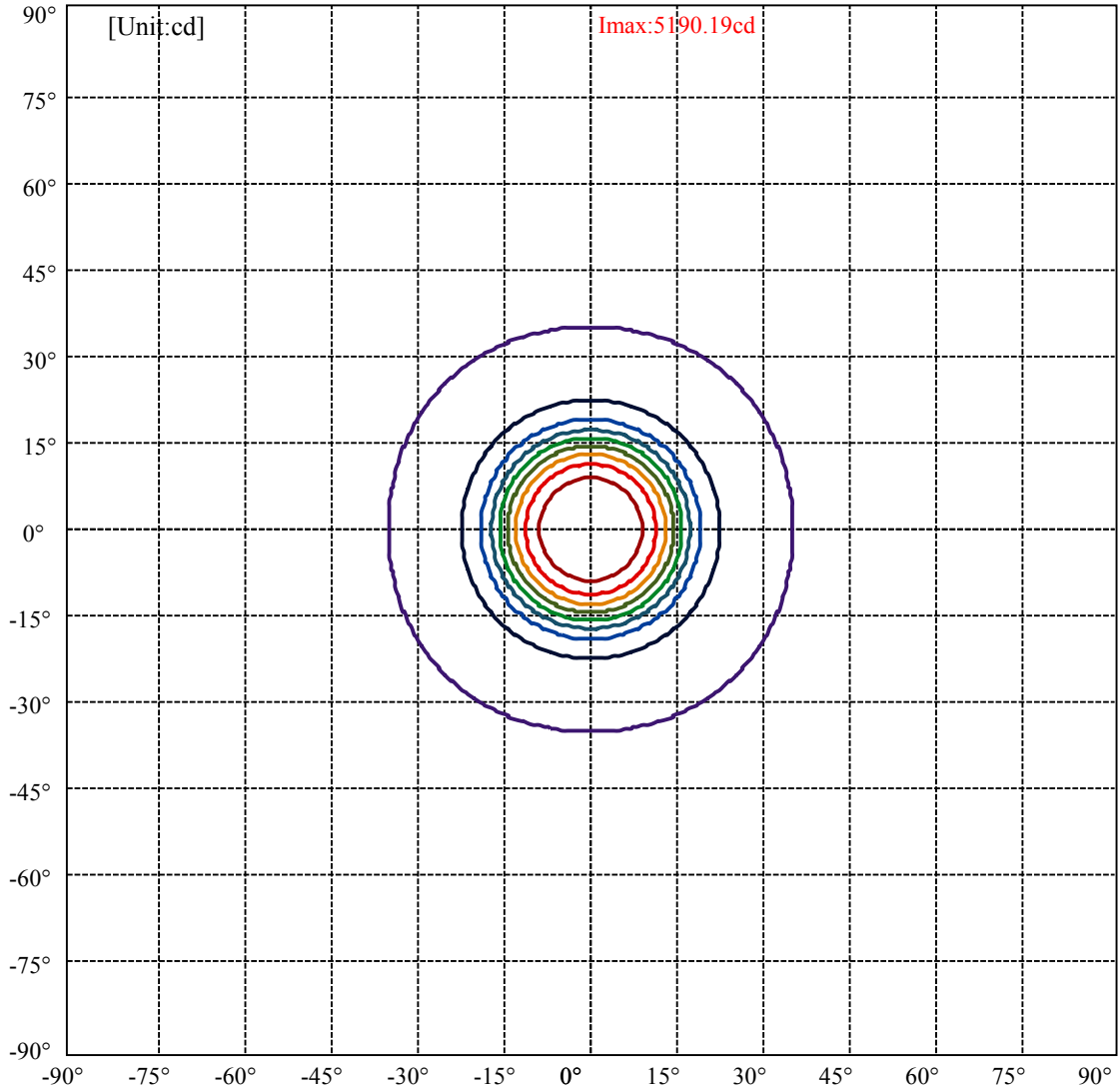


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:35.7 Right:33.7  
:C90/270Left:35.7 Right:33.7

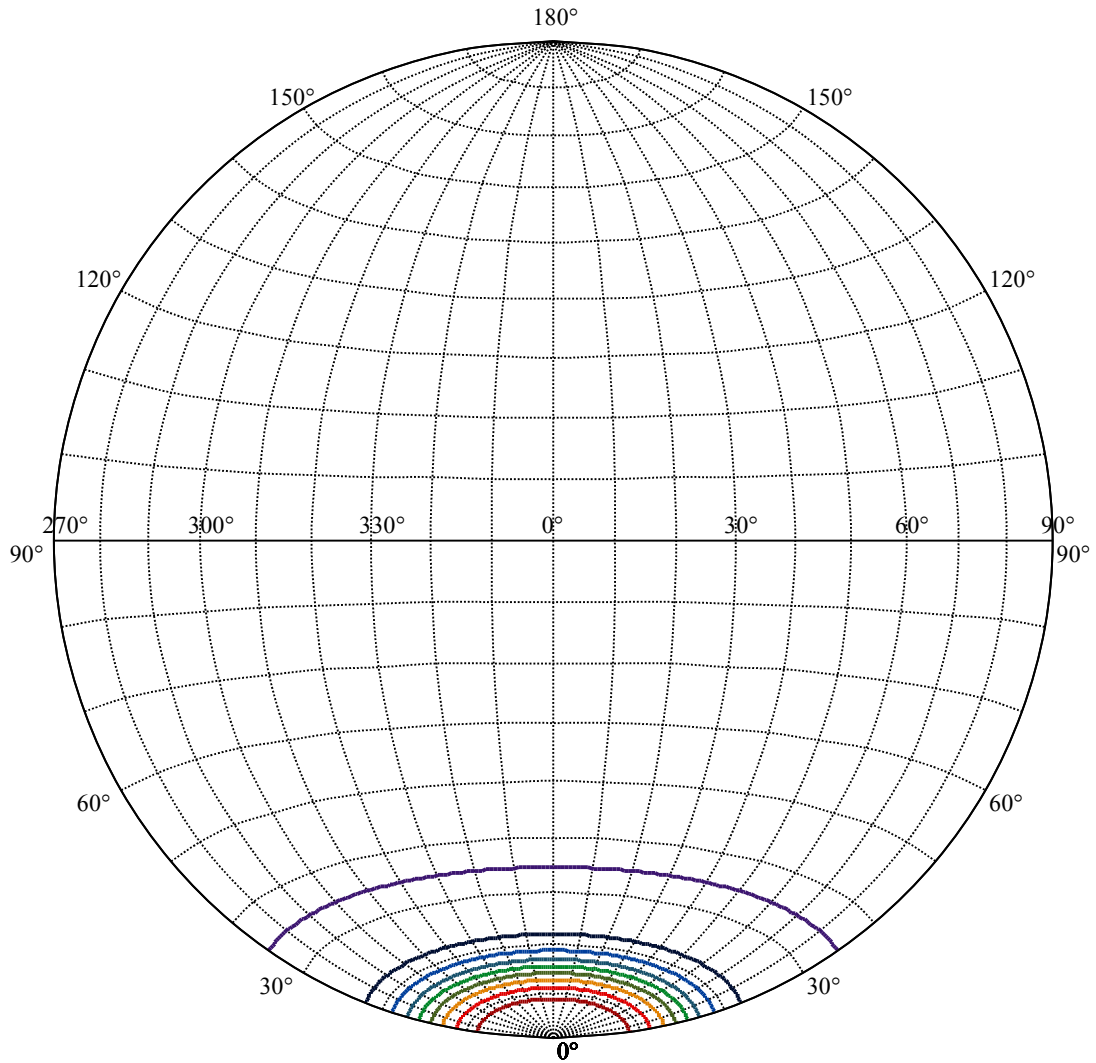
Beam Angle(50%Imax):C0/180Left:16.6 Right:14.6  
:C90/270Left:16.6 Right:14.6





(10%Imax) 519.019	—
(20%Imax) 1038.04	—
(30%Imax) 1557.06	—
(40%Imax) 2076.07	—
(50%Imax) 2595.09	—
(60%Imax) 3114.11	—
(70%Imax) 3633.13	—
(80%Imax) 4152.15	—
(90%Imax) 4671.17	—





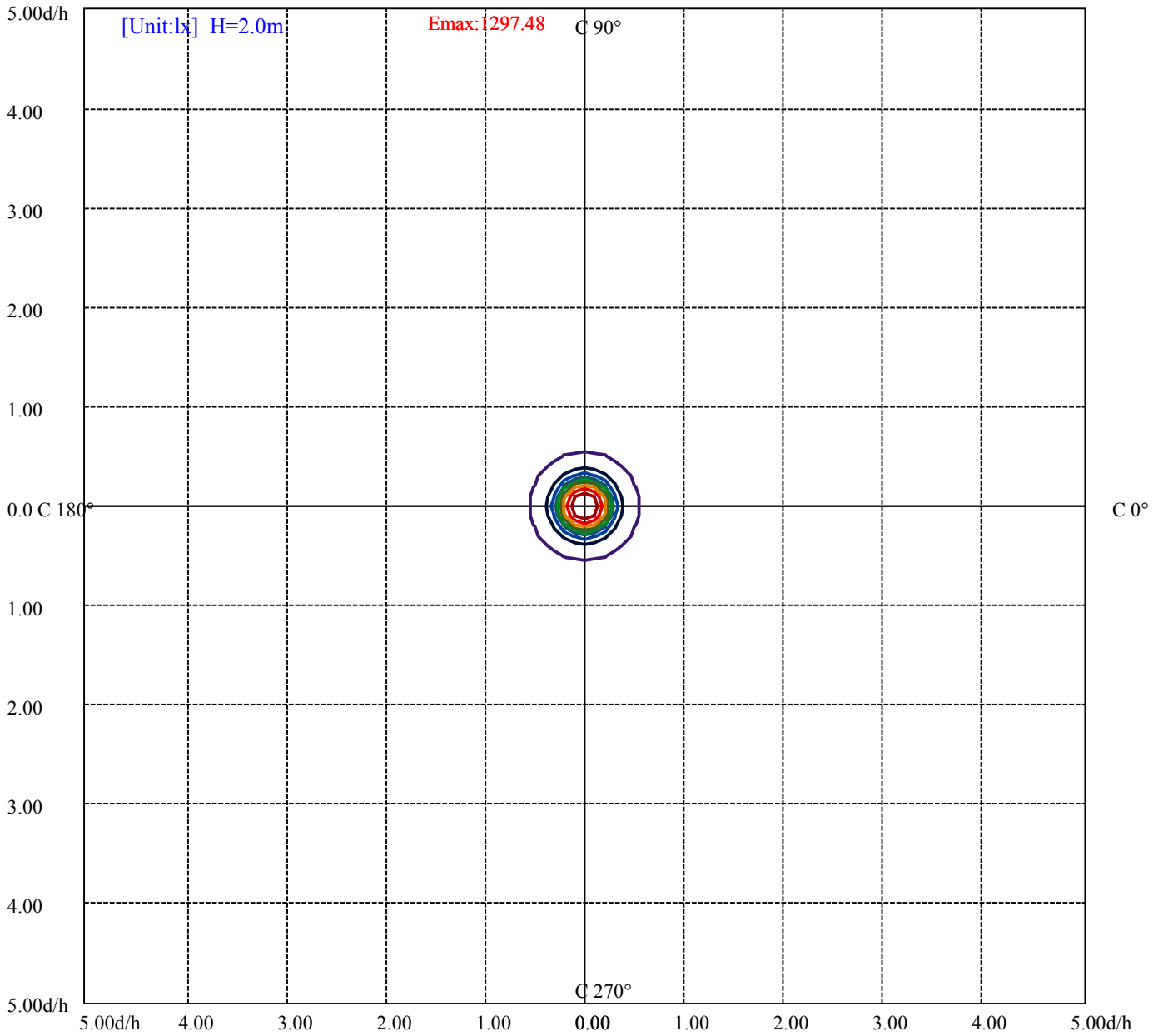
House

[Unit:cd]

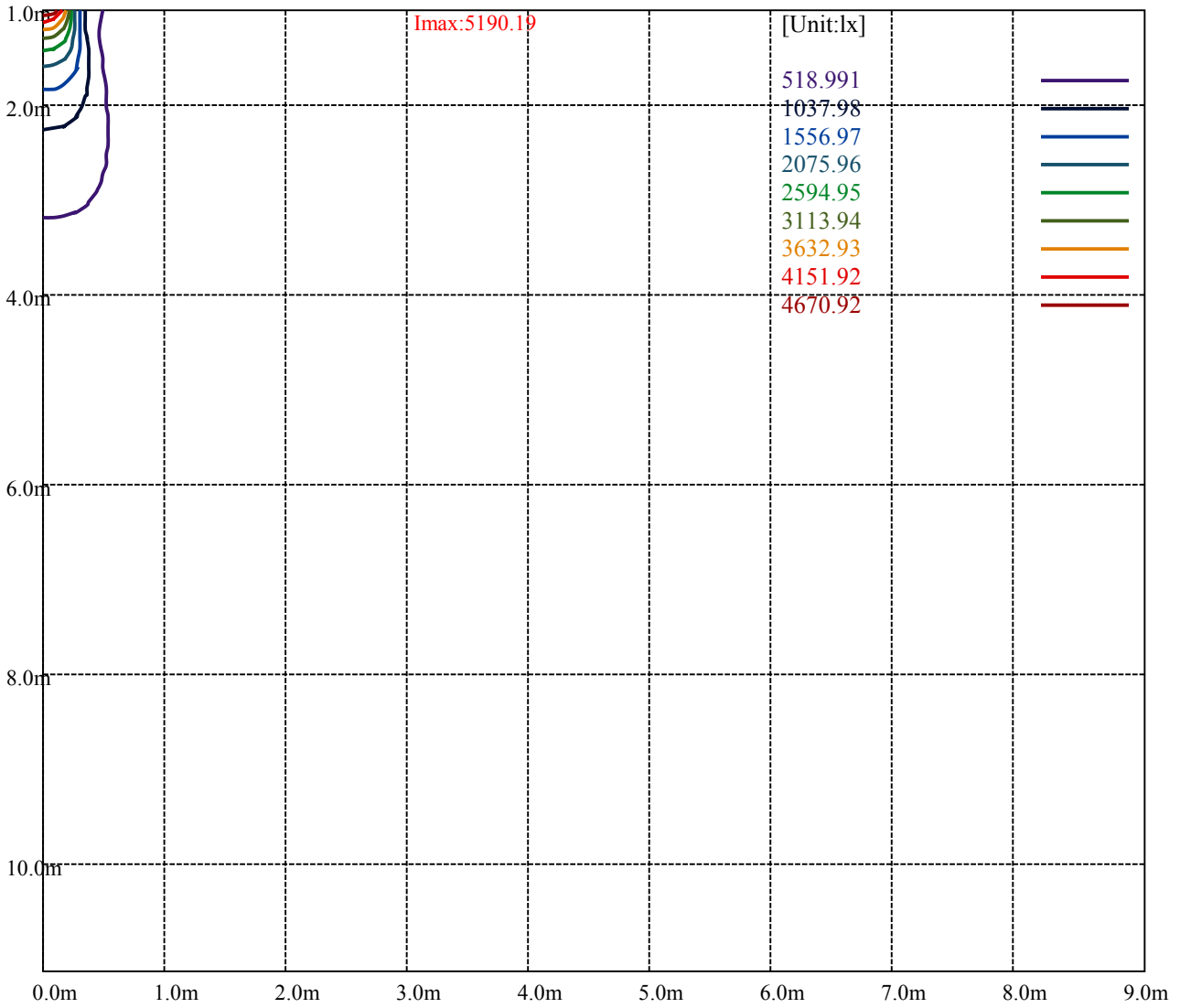
Road

**Imax:5190.19**

(10%Imax) 519.019	—
(20%Imax) 1038.04	—
(30%Imax) 1557.06	—
(40%Imax) 2076.07	—
(50%Imax) 2595.09	—
(60%Imax) 3114.11	—
(70%Imax) 3633.13	—
(80%Imax) 4152.15	—
(90%Imax) 4671.17	—



(10%Emax) 129.7478	—
(20%Emax) 259.495	—
(30%Emax) 389.2425	—
(40%Emax) 518.99	—
(50%Emax) 648.7375	—
(60%Emax) 778.485	—
(70%Emax) 908.2325	—
(80%Emax) 1037.98	—
(90%Emax) 1167.73	—



Luminance Table

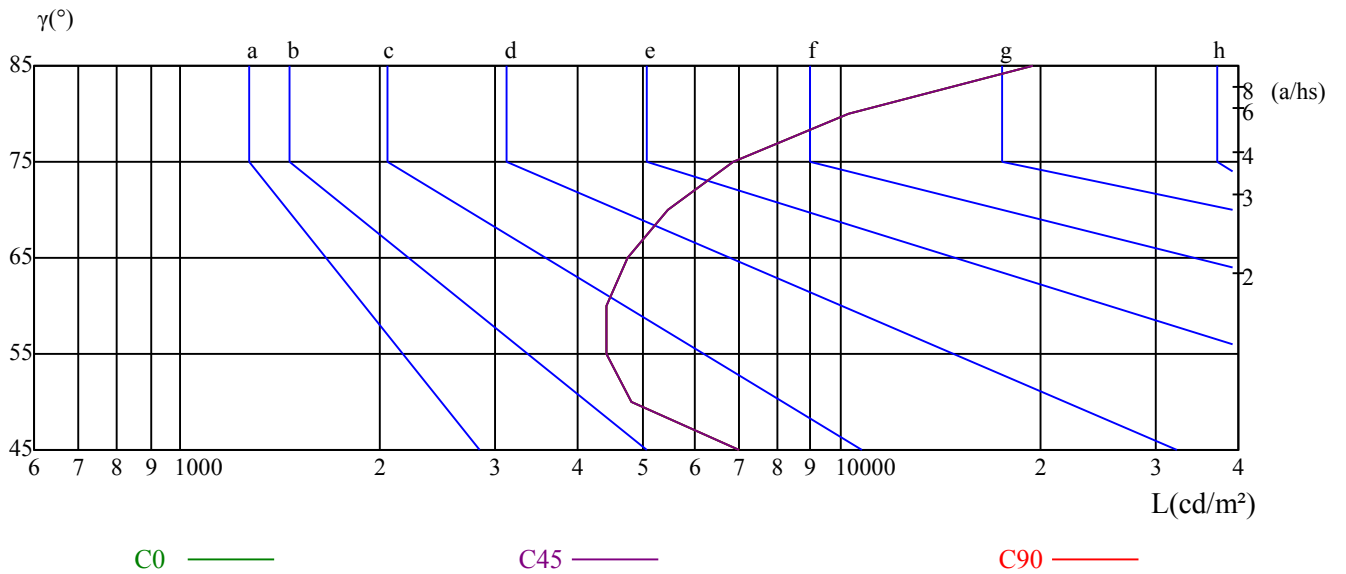
$\gamma$	45	50	55	60	65	70	75	80	85
C0	7034	4813	4428	4414	4767	5475	6891	10296	19543
C45	7034	4813	4428	4414	4767	5475	6891	10296	19543
C90	7034	4813	4428	4414	4767	5475	6891	10296	19543

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4767	4767	4767	6891	6891	6891	19543	19543	19543

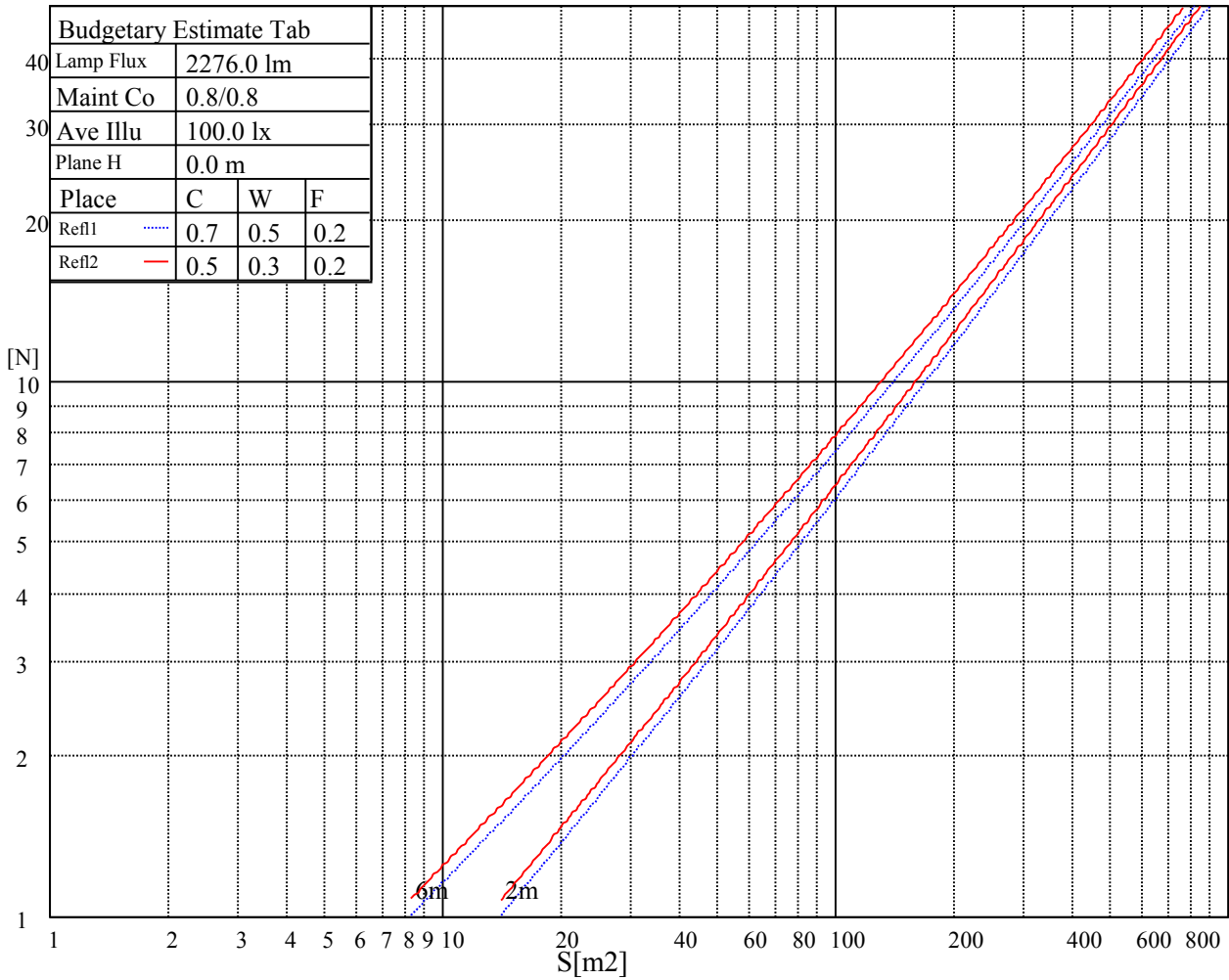
Glare Table

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

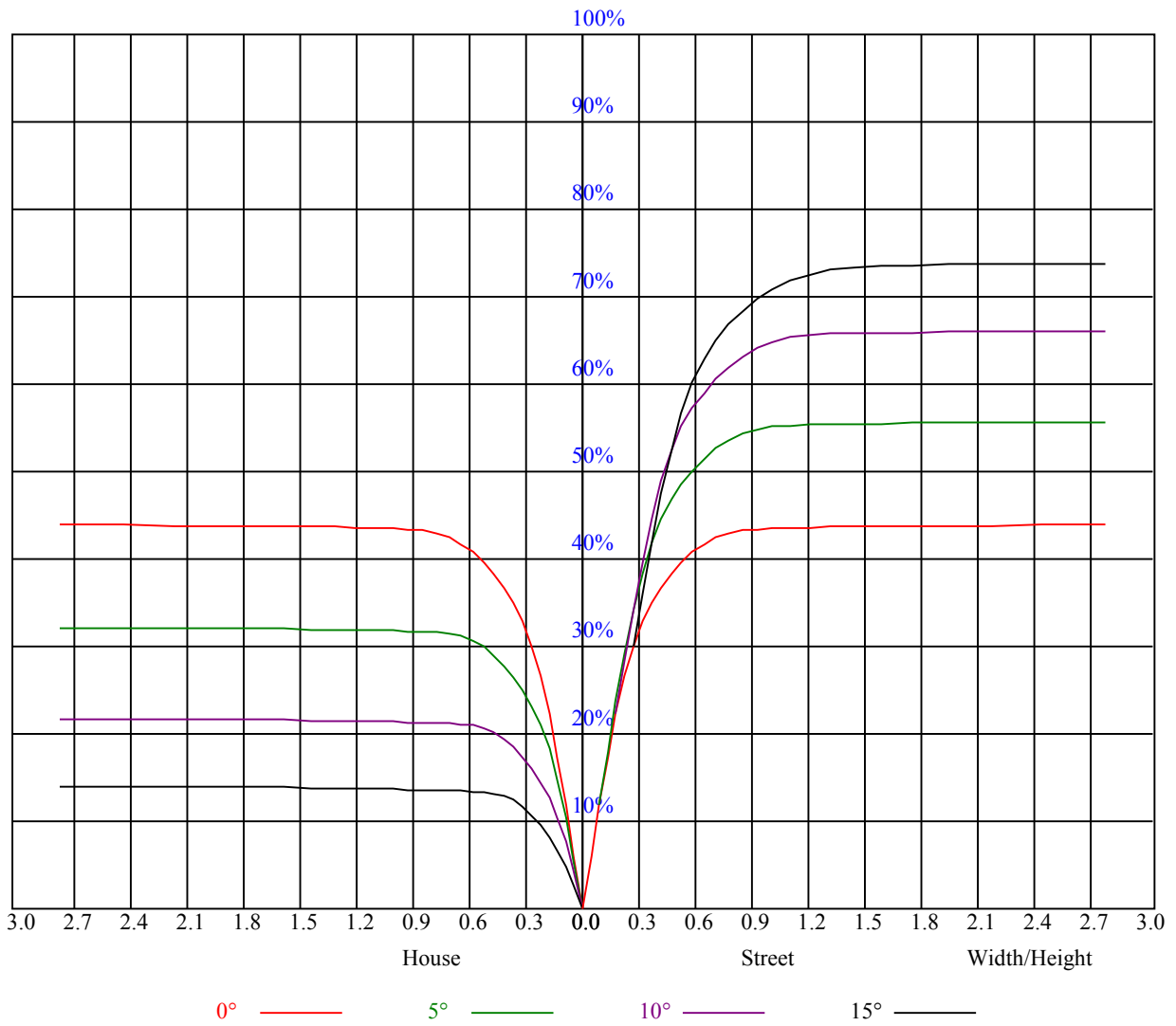
Luminance Limiting Curve



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	4.20	5.12	4.56	5.43	5.75	4.16	5.08	4.52	5.39	5.70
	3H	6.82	7.63	7.20	7.96	8.33	6.78	7.59	7.16	7.92	8.29
	4H	8.29	9.04	8.70	9.39	9.78	8.26	9.01	8.67	9.36	9.75
	6H	10.02	10.71	10.44	11.08	11.48	10.11	10.80	10.53	11.17	11.57
	8H	11.00	11.64	11.44	12.04	12.45	11.14	11.78	11.58	12.18	12.59
	12H	12.63	13.24	13.06	13.63	14.06	12.77	13.39	13.21	13.77	14.21
4H	2H	4.89	5.65	5.30	6.00	6.39	4.86	5.61	5.27	5.97	6.36
	3H	7.81	8.43	8.23	8.84	9.24	7.79	8.41	8.21	8.82	9.22
	4H	9.48	10.03	9.92	10.46	10.91	9.47	10.02	9.91	10.44	10.89
	6H	11.40	11.87	11.88	12.33	12.80	11.48	11.95	11.95	12.40	12.87
	8H	12.50	12.94	12.98	13.39	13.87	12.63	13.07	13.10	13.52	13.99
	12H	14.06	14.44	14.55	14.93	15.40	14.19	14.57	14.68	15.06	15.54
8H	4H	10.14	10.58	10.62	11.03	11.50	10.13	10.57	10.61	11.02	11.49
	6H	12.36	12.71	12.87	13.21	13.70	12.44	12.78	12.95	13.29	13.77
	8H	13.66	13.96	14.19	14.49	14.98	13.77	14.08	14.31	14.60	15.10
	12H	15.37	15.64	15.90	16.14	16.72	15.49	15.75	16.02	16.25	16.84
12H	4H	10.33	10.71	10.83	11.20	11.68	10.32	10.69	10.81	11.18	11.66
	6H	12.88	12.98	13.21	13.45	14.00	12.94	13.04	13.27	13.51	14.06
	8H	14.09	14.36	14.62	14.86	15.44	14.20	14.46	14.72	14.96	15.54
Variation with the observer position at spacings:											
S = 1.0H	5.1/-7.4					5.1/-7.4					
S = 1.5H	7.4/-5.6					7.4/-5.6					
S = 2.0H	8.8/-4.3					8.8/-4.3					
Standard tables:	BK2					BK2					
Uncorrected UGR	1.4					1.4					



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	1.05	1.05	1.05	1.03	1.03	1.03	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.88
1	0.99	0.97	0.95	0.97	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.88	0.87	0.86	0.85	0.84
2	0.93	0.90	0.87	0.91	0.89	0.86	0.89	0.86	0.84	0.86	0.84	0.83	0.84	0.82	0.81	0.79
3	0.88	0.84	0.81	0.87	0.83	0.81	0.85	0.82	0.79	0.82	0.80	0.78	0.81	0.79	0.77	0.76
4	0.84	0.79	0.76	0.83	0.79	0.76	0.81	0.77	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
6	0.76	0.72	0.68	0.75	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.66
7	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.63
8	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60
9	0.67	0.63	0.60	0.67	0.62	0.60	0.66	0.62	0.59	0.65	0.62	0.59	0.64	0.61	0.59	0.58
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.62	0.59	0.57	0.56





NATA 2-1740-M

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	5194.13	5192.44	5193.00	5191.88	5178.38	5140.69	5078.81	5005.13	4900.50
45.0	5187.38	5185.13	5183.44	5176.69	5157.56	5119.31	5059.13	4983.75	4888.69
90.0	5187.38	5182.88	5169.38	5138.44	5092.88	5019.75	4932.56	4793.06	4650.19
135.0	5190.75	5190.75	5181.75	5160.94	5123.25	5057.44	4968.56	4865.06	4735.69
180.0	5194.13	5196.94	5193.00	5177.25	5144.06	5085.56	4998.94	4896.00	4746.38
225.0	5187.38	5192.44	5193.56	5182.31	5148.56	5099.63	5032.69	4917.94	4795.31
270.0	5187.38	5189.63	5193.00	5190.19	5175.00	5132.81	5068.69	4991.63	4908.94
315.0	5190.75	5191.31	5191.88	5183.44	5159.25	5105.25	5031.00	4947.75	4825.13
360.0	5194.13	5192.44	5193.00	5191.88	5178.38	5140.69	5078.81	5005.13	4900.50
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4766.63	4611.38	4397.06	4165.88	3857.63	3496.50	3146.63	2777.06	2327.06
45.0	4731.75	4568.63	4369.50	4095.56	3767.63	3438.00	3041.44	2634.75	2323.69
90.0	4474.13	4201.31	3938.06	3632.63	3295.13	2846.25	2483.44	2138.06	1791.56
135.0	4534.31	4330.69	4082.63	3749.06	3366.56	3008.25	2597.63	2246.06	1887.75
180.0	4581.56	4350.38	4071.38	3780.00	3408.19	3009.38	2648.81	2295.00	1889.44
225.0	4641.75	4371.75	4156.88	3872.25	3508.31	3116.25	2752.88	2346.75	2017.69
270.0	4739.63	4576.50	4403.25	4101.19	3776.06	3488.63	3045.94	2630.81	2322.56
315.0	4686.19	4493.81	4251.94	3993.19	3655.13	3281.63	2925.00	2560.50	2131.88
360.0	4766.63	4611.38	4397.06	4165.88	3857.63	3496.50	3146.63	2777.06	2327.06
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1999.13	1713.38	1425.38	1252.13	1122.75	1016.44	941.63	894.38	851.06
45.0	1912.50	1632.38	1375.88	1203.19	1075.50	991.13	919.69	874.69	838.69
90.0	1508.63	1312.31	1116.96	1032.58	962.78	906.41	868.89	832.78	804.66
135.0	1584.56	1378.13	1176.75	1067.63	992.25	934.88	883.13	848.25	820.69
180.0	1617.19	1398.38	1113.41	1074.09	990.62	917.55	874.97	839.25	805.16
225.0	1701.00	1444.50	1269.00	1120.05	1025.89	948.49	898.65	854.72	822.21
270.0	1925.44	1657.69	1436.63	1229.06	1110.38	1020.94	941.63	896.06	860.63
315.0	1829.81	1575.00	1347.75	1117.13	1065.77	974.98	911.59	871.82	835.71
360.0	1999.13	1713.38	1425.38	1252.13	1122.75	1016.44	941.63	894.38	851.06
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	822.38	795.94	773.44	755.44	731.81	696.94	647.44	595.13	525.38
45.0	806.06	783.56	764.44	744.19	716.06	676.69	622.69	569.81	506.81
90.0	783.51	765.51	744.13	723.54	691.37	635.46	583.76	527.01	461.42
135.0	795.94	774.00	756.00	735.75	704.25	663.75	606.94	552.38	487.13
180.0	785.93	763.82	740.98	721.91	690.19	629.33	583.31	528.47	450.00
225.0	797.91	774.23	753.86	733.33	703.01	650.98	602.04	547.76	481.78
270.0	822.94	798.75	779.06	758.25	736.88	709.88	666.00	613.13	559.69
315.0	808.48	783.68	762.69	745.76	726.02	686.08	643.11	591.75	522.28
360.0	822.38	795.94	773.44	755.44	731.81	696.94	647.44	595.13	525.38
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	465.75	405.00	343.69	290.81	208.91	156.71	98.04	60.30	34.54
45.0	438.19	378.00	311.63	284.06	191.03	140.91	86.46	52.37	30.71
90.0	394.20	335.98	272.03	210.88	157.84	105.08	66.49	36.17	24.92
135.0	421.31	361.13	308.81	254.36	175.50	124.82	71.94	41.74	27.96
180.0	398.64	340.09	274.89	211.67	158.18	103.05	63.51	34.76	26.21
225.0	414.62	355.16	287.10	220.11	167.23	113.01	71.66	39.38	27.73
270.0	495.00	435.38	367.31	299.25	284.63	183.09	120.43	78.30	46.52
315.0	464.68	405.73	330.19	270.62	214.48	148.39	106.37	62.55	32.74
360.0	465.75	405.00	343.69	290.81	208.91	156.71	98.04	60.30	34.54

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	24.19	21.15	18.84	16.88	16.03	14.85	14.12	13.56	13.11
45.0	22.78	20.25	17.83	16.26	15.24	14.46	13.73	13.05	12.54
90.0	22.16	19.63	17.04	16.03	15.24	14.18	13.56	13.16	12.71
135.0	23.68	20.76	18.39	17.10	16.14	14.79	14.01	13.56	13.05
180.0	23.40	20.19	18.11	17.10	16.14	15.02	14.34	13.84	13.39
225.0	24.58	21.54	18.90	17.78	16.88	15.69	14.63	14.12	13.61
270.0	28.46	25.09	21.94	19.29	17.83	16.71	15.69	14.85	14.12
315.0	25.71	22.50	19.24	17.78	16.82	15.58	14.85	14.01	13.44
360.0	24.19	21.15	18.84	16.88	16.03	14.85	14.12	13.56	13.11
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.66	12.38	11.98	11.53	11.25	10.91	10.63	10.46	10.24
45.0	12.15	11.87	11.48	11.19	10.91	10.69	10.41	10.18	10.01
90.0	12.32	11.98	11.64	11.31	10.97	10.63	10.46	10.24	10.07
135.0	12.66	12.26	11.93	11.53	11.25	11.03	10.74	10.52	10.29
180.0	12.88	12.49	12.15	11.76	11.42	11.14	10.91	10.63	10.46
225.0	13.16	12.77	12.32	11.87	11.59	11.31	11.08	10.80	10.58
270.0	13.61	13.22	12.83	12.43	12.09	11.76	11.36	11.14	10.91
315.0	13.05	12.60	12.15	11.81	11.48	11.14	10.91	10.69	10.46
360.0	12.66	12.38	11.98	11.53	11.25	10.91	10.63	10.46	10.24
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	10.07	9.90	9.73	9.56	9.45	9.34	9.17	9.11	8.94
45.0	9.90	9.68	9.56	9.39	9.23	9.11	9.06	8.89	8.83
90.0	9.90	9.73	9.56	9.39	9.28	9.17	9.06	8.94	8.89
135.0	10.13	9.96	9.84	9.68	9.56	9.39	9.28	9.17	9.06
180.0	10.24	10.13	10.01	9.84	9.68	9.56	9.39	9.28	9.17
225.0	10.41	10.18	10.07	9.90	9.73	9.56	9.45	9.34	9.23
270.0	10.63	10.41	10.29	10.07	9.90	9.73	9.62	9.45	9.34
315.0	10.29	10.07	9.90	9.73	9.62	9.45	9.34	9.23	9.11
360.0	10.07	9.90	9.73	9.56	9.45	9.34	9.17	9.11	8.94
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	8.89	8.78	8.72	8.66	8.61	8.61	8.49	8.44	8.44
45.0	8.78	8.66	8.66	8.55	8.49	8.49	8.44	8.44	8.38
90.0	8.78	8.72	8.66	8.61	8.55	8.49	8.49	8.44	8.38
135.0	8.94	8.89	8.83	8.72	8.66	8.61	8.89	9.56	9.68
180.0	9.06	9.00	8.94	8.83	8.78	9.00	9.39	9.56	9.62
225.0	9.11	9.00	8.89	8.83	8.78	8.72	8.61	8.55	8.49
270.0	9.23	9.11	9.06	8.94	8.83	8.78	8.72	8.66	8.61
315.0	9.00	8.94	8.83	8.78	8.72	8.66	8.61	8.55	8.49
360.0	8.89	8.78	8.72	8.66	8.61	8.61	8.49	8.44	8.44
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.44	8.38	8.38	8.38	8.33	8.33	8.27	8.27	8.27
45.0	8.38	8.33	8.33	8.27	8.27	8.21	8.21	8.21	8.21
90.0	8.38	8.33	8.33	8.27	8.27	8.21	8.21	8.16	8.21
135.0	9.45	9.23	8.78	8.44	8.38	8.38	8.21	8.21	8.21
180.0	9.39	9.11	8.61	8.55	8.49	8.49	8.21	8.21	8.21
225.0	8.49	8.44	8.44	8.38	8.38	8.33	8.21	8.21	8.21
270.0	8.55	8.44	8.44	8.44	8.33	8.33	8.27	8.21	8.21
315.0	8.44	8.44	8.38	8.38	8.33	8.33	8.33	8.21	8.21
360.0	8.44	8.38	8.38	8.38	8.33	8.33	8.27	8.27	8.27

Intensity data(cd)

C/γ(°)	90.0
0.0	8.21
45.0	8.21
90.0	8.16
135.0	8.21
180.0	8.21
225.0	8.16
270.0	8.21
315.0	8.21
360.0	8.21