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## NATA

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LumCAT: 2-1793-N	
Luminaire: 92.70.129.00	
Report No: NATA0100	Voltage(V): 35.5000
Test No: GC2019012502	Current(A): 0.6000
LampCAT: CREE CXB1830	Power (W): 21.3000
Lamp flux(lm): 2906.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 69	Width(mm): 69
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 2404.41  
Efficiency(%): 82.74%  
Lumens(lm)/Power(W): 113.03  
Central intensity(cd): 13826.250  
Maximum intensity(cd): 13826.250  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=17.8  
                                  [C90/270]Total=17.8  
Field angle(10%Imax): [C0/180]Total=43.2  
                                  [C90/270]Total=43.2  
Maximum s/h(1/2): C0\_180=0.30 C90\_270=0.30  
Maximum s/h(1/4): C0\_180=0.32 C90\_270=0.32  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 82.85%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 97.953%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	13826.250	3.308	3.308	.114%	.138%
1.0	13683.516	26.188	29.496	.901%	1.227%
2.0	13224.375	50.611	80.107	1.742%	3.332%
3.0	12470.695	71.572	151.679	2.463%	6.308%
4.0	11796.891	90.241	241.92	3.105%	10.062%
5.0	10826.086	103.471	345.391	3.561%	14.365%
6.0	9890.016	113.366	458.757	3.901%	19.080%
7.0	8876.672	118.631	577.388	4.082%	24.014%
8.0	7838.086	119.624	697.011	4.116%	28.989%
9.0	6800.625	116.663	813.674	4.015%	33.841%
10.0	5851.336	111.424	925.098	3.834%	38.475%
11.0	5019.188	105.023	1030.121	3.614%	42.843%
12.0	4291.242	97.839	1127.96	3.367%	46.912%
13.0	3673.898	90.629	1218.589	3.119%	50.681%
14.0	3152.180	83.625	1302.214	2.878%	54.160%
15.0	2791.125	79.219	1381.433	2.726%	57.454%
16.0	2493.422	75.368	1456.801	2.594%	60.589%
17.0	2180.672	69.916	1526.717	2.406%	63.497%
18.0	1948.078	66.015	1592.732	2.272%	66.242%
19.0	1773.773	63.327	1656.059	2.179%	68.876%
20.0	1600.453	60.027	1716.086	2.066%	71.373%
21.0	1452.797	57.093	1773.179	1.965%	73.747%
22.0	1336.148	54.889	1828.068	1.889%	76.030%
23.0	1217.138	52.152	1880.22	1.795%	78.199%
24.0	1134.942	50.622	1930.842	1.742%	80.304%
25.0	1073.180	49.736	1980.578	1.711%	82.373%
26.0	1006.545	48.387	2028.965	1.665%	84.385%
27.0	926.972	46.149	2075.114	1.588%	86.305%
28.0	843.441	43.423	2118.537	1.494%	88.111%
29.0	734.885	39.070	2157.606	1.344%	89.736%
30.0	627.145	34.387	2191.993	1.183%	91.166%
31.0	520.467	29.396	2221.389	1.012%	92.388%
32.0	409.781	23.813	2245.202	.819%	93.379%
33.0	315.506	18.844	2264.046	.648%	94.162%
34.0	229.521	14.075	2278.12	.484%	94.748%
35.0	159.630	10.041	2288.161	.346%	95.165%
36.0	101.672	6.553	2294.714	.226%	95.438%
37.0	77.934	5.143	2299.858	.177%	95.652%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	65.377	4.414	2304.271	.152%	95.835%
39.0	58.605	4.044	2308.316	.139%	96.004%
40.0	53.409	3.765	2312.081	.130%	96.160%
41.0	48.565	3.494	2315.575	.120%	96.305%
42.0	44.170	3.241	2318.816	.112%	96.440%
43.0	40.359	3.018	2321.834	.104%	96.566%
44.0	36.963	2.816	2324.65	.097%	96.683%
45.0	33.905	2.629	2327.279	.090%	96.792%
46.0	31.598	2.493	2329.771	.086%	96.896%
47.0	29.475	2.364	2332.135	.081%	96.994%
48.0	27.766	2.263	2334.398	.078%	97.088%
49.0	26.416	2.186	2336.584	.075%	97.179%
50.0	25.102	2.109	2338.693	.073%	97.267%
51.0	24.131	2.057	2340.75	.071%	97.352%
52.0	23.421	2.024	2342.774	.070%	97.437%
53.0	22.662	1.985	2344.758	.068%	97.519%
54.0	22.148	1.965	2346.723	.068%	97.601%
55.0	21.741	1.953	2348.676	.067%	97.682%
56.0	21.382	1.944	2350.62	.067%	97.763%
57.0	21.066	1.937	2352.557	.067%	97.844%
58.0	20.735	1.928	2354.486	.066%	97.924%
59.0	20.496	1.927	2356.412	.066%	98.004%
60.0	20.208	1.919	2358.331	.066%	98.084%
61.0	20.032	1.921	2360.253	.066%	98.164%
62.0	19.835	1.921	2362.173	.066%	98.244%
63.0	19.624	1.917	2364.091	.066%	98.323%
64.0	19.336	1.906	2365.997	.066%	98.403%
65.0	18.921	1.881	2367.877	.065%	98.481%
66.0	18.436	1.847	2369.724	.064%	98.558%
67.0	17.958	1.813	2371.537	.062%	98.633%
68.0	17.494	1.779	2373.315	.061%	98.707%
69.0	17.023	1.743	2375.058	.060%	98.779%
70.0	16.622	1.713	2376.771	.059%	98.851%
71.0	16.207	1.680	2378.451	.058%	98.921%
72.0	15.771	1.645	2380.096	.057%	98.989%
73.0	15.377	1.613	2381.709	.055%	99.056%
74.0	15.026	1.584	2383.293	.055%	99.122%
75.0	14.639	1.551	2384.843	.053%	99.186%

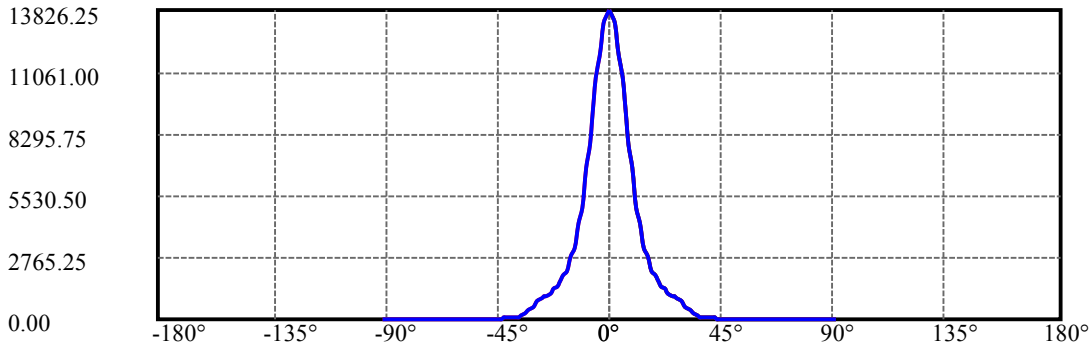
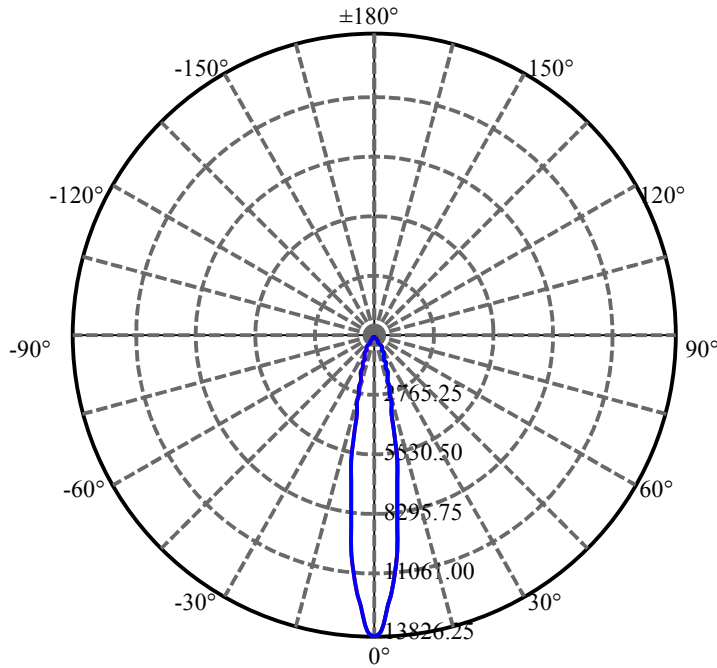
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	14.280	1.519	2386.363	.052%	99.250%
77.0	13.992	1.495	2387.858	.051%	99.312%
78.0	13.669	1.466	2389.324	.050%	99.373%
79.0	13.388	1.441	2390.765	.050%	99.433%
80.0	13.099	1.415	2392.18	.049%	99.491%
81.0	12.825	1.389	2393.569	.048%	99.549%
82.0	12.579	1.366	2394.935	.047%	99.606%
83.0	12.319	1.341	2396.276	.046%	99.662%
84.0	12.038	1.313	2397.589	.045%	99.716%
85.0	11.841	1.294	2398.882	.045%	99.770%
86.0	11.658	1.275	2400.157	.044%	99.823%
87.0	11.475	1.257	2401.414	.043%	99.876%
88.0	11.271	1.235	2402.649	.043%	99.927%
89.0	10.793	1.183	2403.833	.041%	99.976%
90.0	10.463	0.574	2404.406	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2191.99	75.43%	91.17%
0-40	2312.08	79.56%	96.16%
0-60	2358.33	81.15%	98.08%
0-90	2403.83	82.72%	99.98%
0-120	2403.83	82.72%	99.98%
0-180	2404.41	82.74%	100.00%
60-90	47.42	1.63%	1.97%
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%
0-23.86	1923.53	66.19%	80.00%

ZONAL LUMEN SUMMARY

0-10	925.10
10-20	790.99
20-30	475.91
30-40	120.09
40-50	26.61
50-60	19.64
60-70	18.44
70-80	15.41
80-90	11.65
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



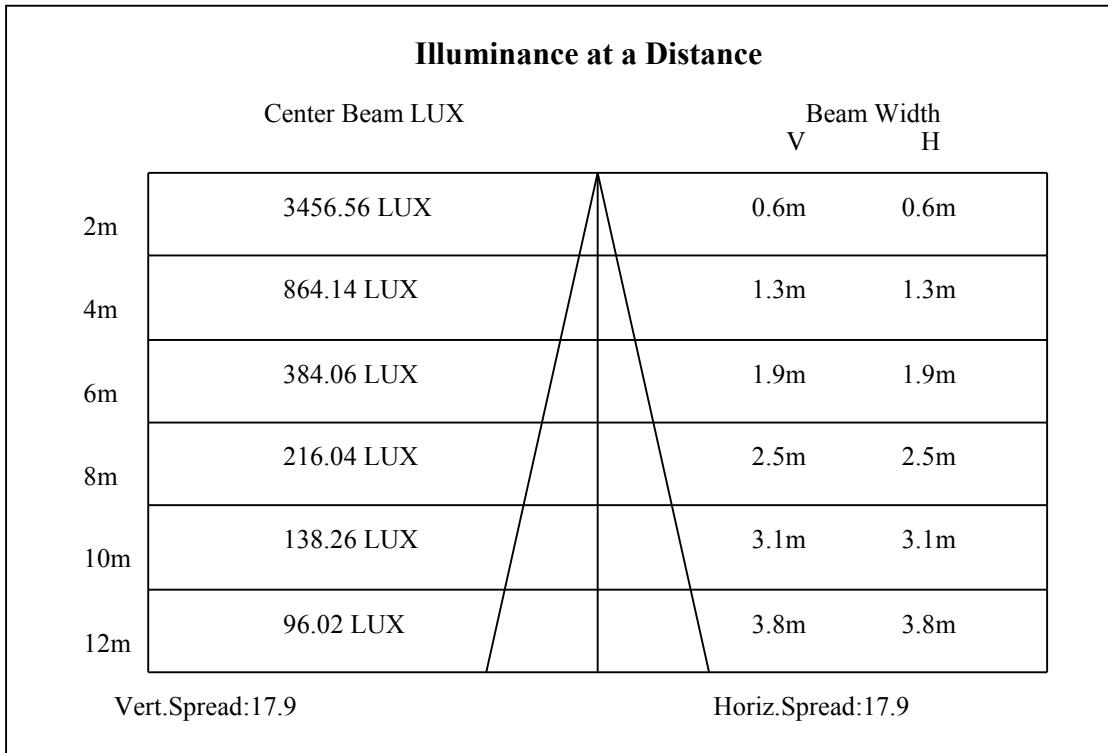
C0(Max): —————

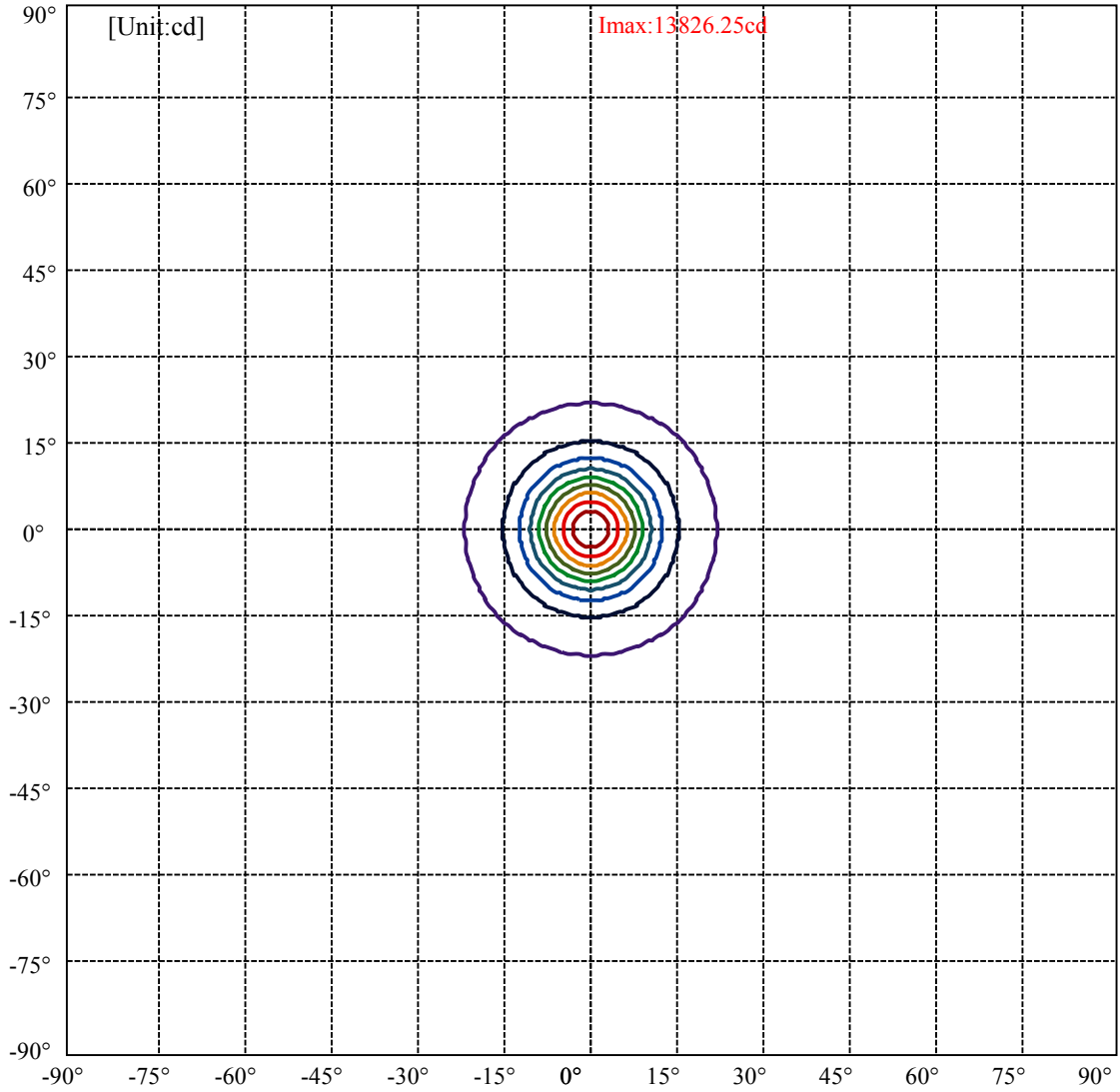
C0/C180: —————

C90/C270: —————

Field angle(10%Imax):C0/180Left:21.6 Right:21.6  
:C90/270Left:21.6 Right:21.6

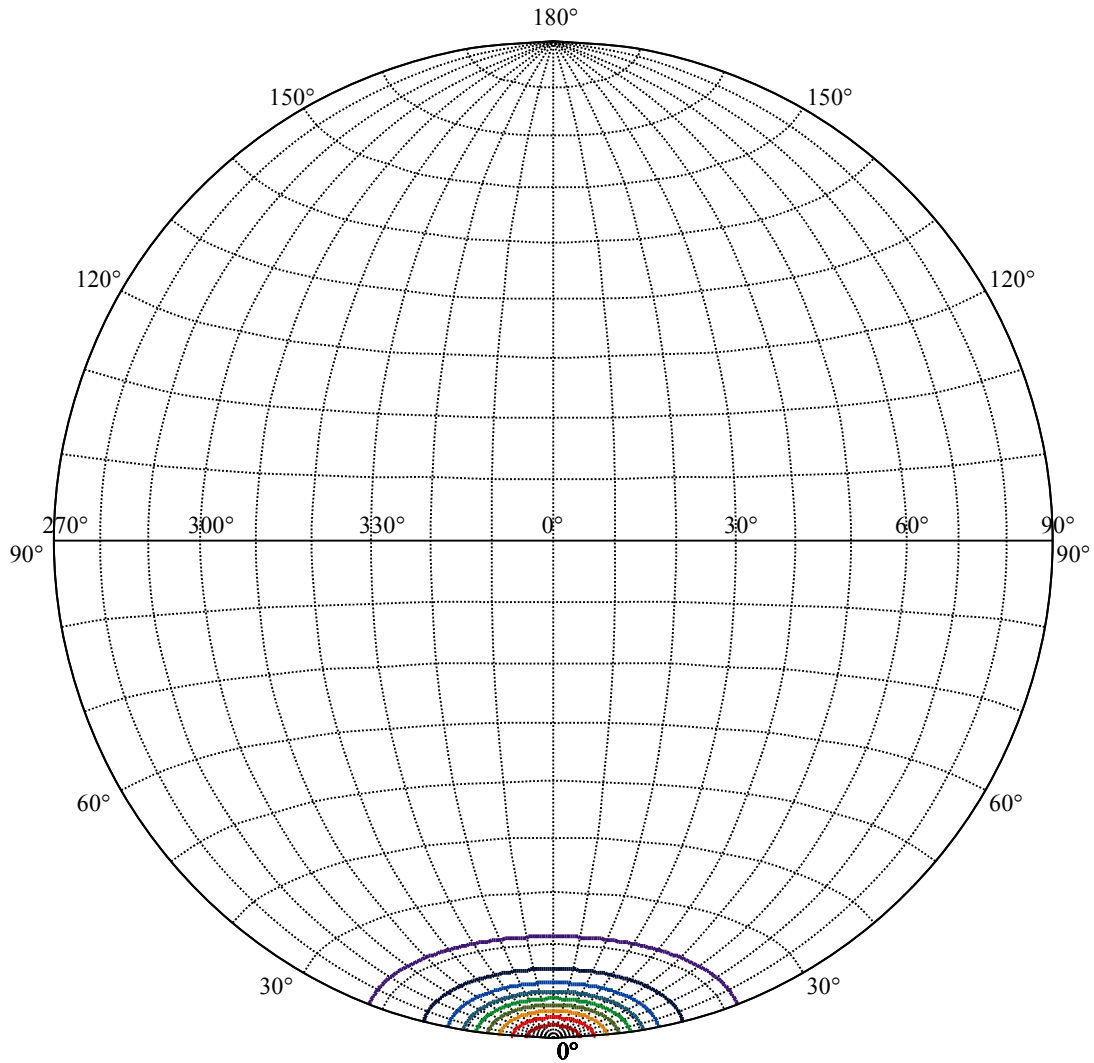
Beam Angle(50%Imax):C0/180Left:8.9 Right:8.9  
:C90/270Left:8.9 Right:8.9





(10%Imax) 1382.62	—
(20%Imax) 2765.25	—
(30%Imax) 4147.87	—
(40%Imax) 5530.5	—
(50%Imax) 6913.12	—
(60%Imax) 8295.75	—
(70%Imax) 9678.37	—
(80%Imax) 11061	—
(90%Imax) 12443.6	—





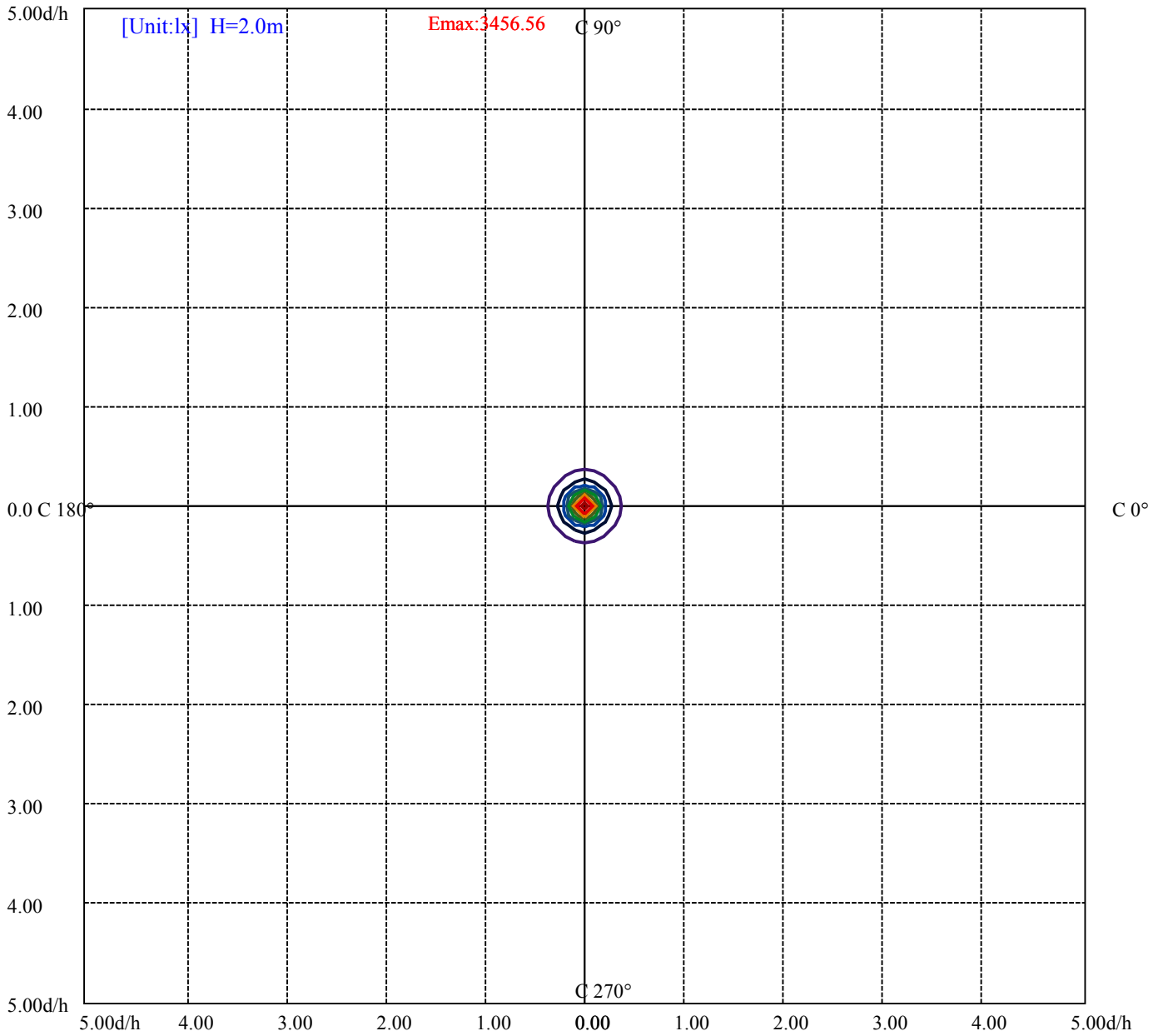
House

[Unit:cd]

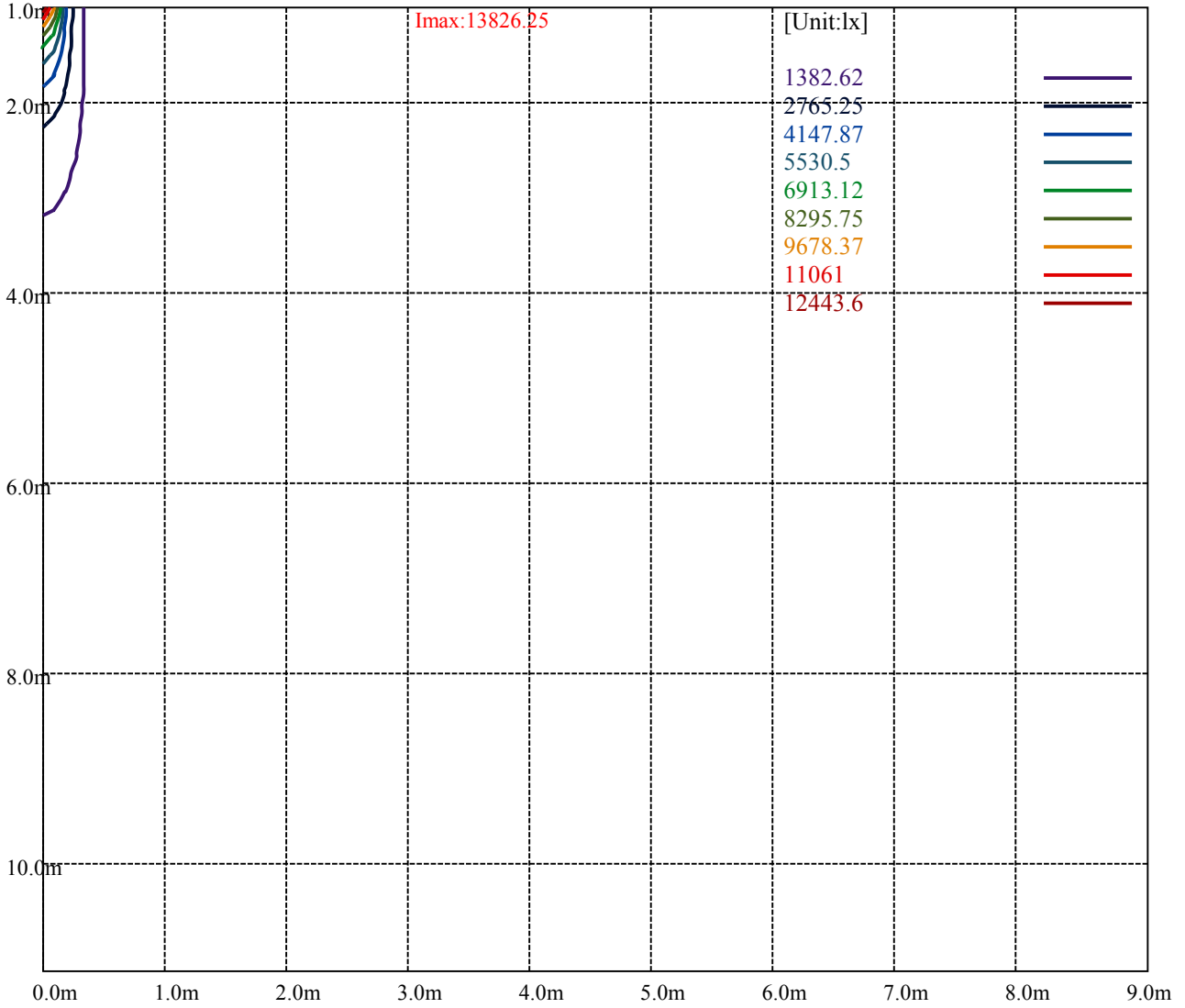
Road

**Imax:13826.25**

(10%Imax) 1382.62	—
(20%Imax) 2765.25	—
(30%Imax) 4147.87	—
(40%Imax) 5530.5	—
(50%Imax) 6913.12	—
(60%Imax) 8295.75	—
(70%Imax) 9678.37	—
(80%Imax) 11061	—
(90%Imax) 12443.6	—



(10%Emax) 345.655	—
(20%Emax) 691.3125	—
(30%Emax) 1036.968	—
(40%Emax) 1382.623	—
(50%Emax) 1728.277	—
(60%Emax) 2073.935	—
(70%Emax) 2419.59	—
(80%Emax) 2765.25	—
(90%Emax) 3110.9	—



Luminance Table

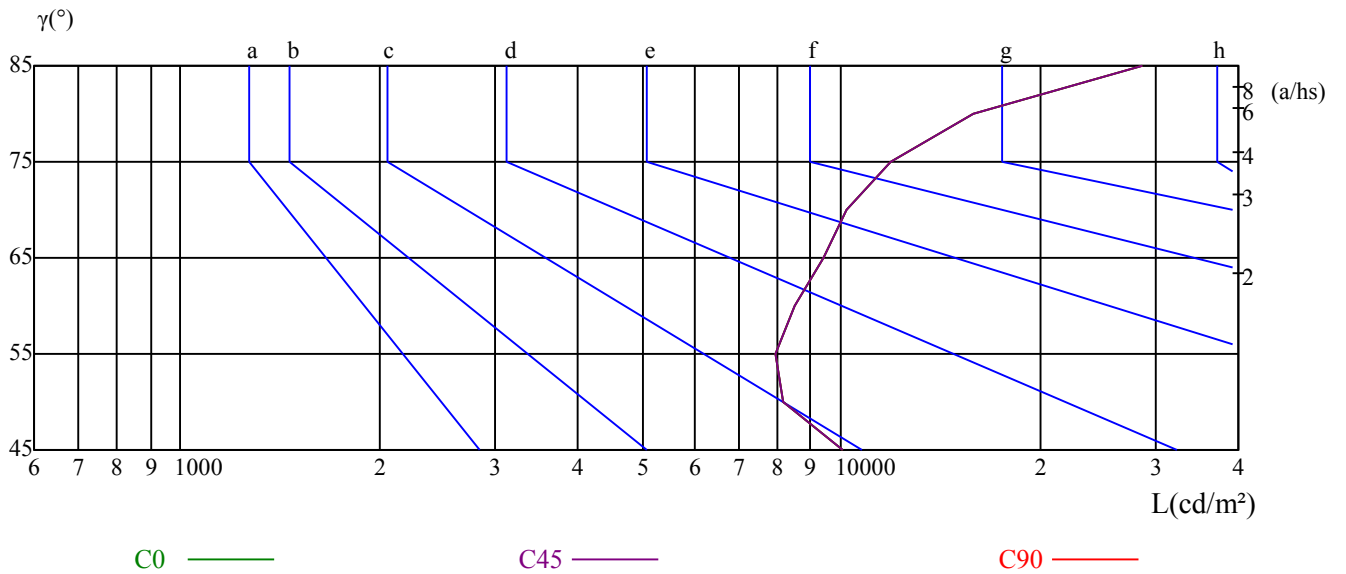
$\gamma$	45	50	55	60	65	70	75	80	85
C0	10071	8202	7961	8489	9404	10208	11880	15844	28535
C45	10071	8202	7961	8489	9404	10208	11880	15844	28535
C90	10071	8202	7961	8489	9404	10208	11880	15844	28535

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9404	9404	9404	11880	11880	11880	28535	28535	28535

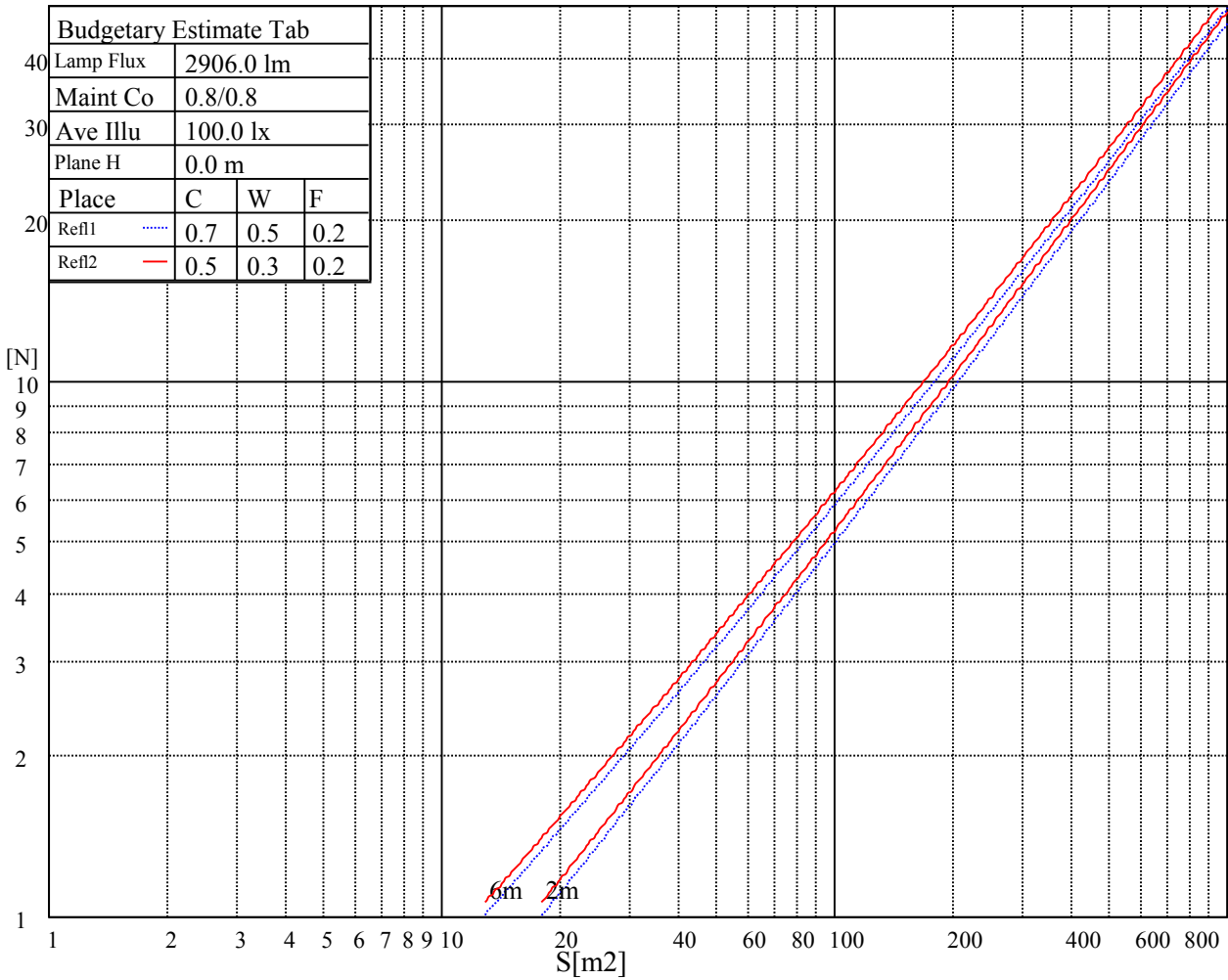
Glare Table

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

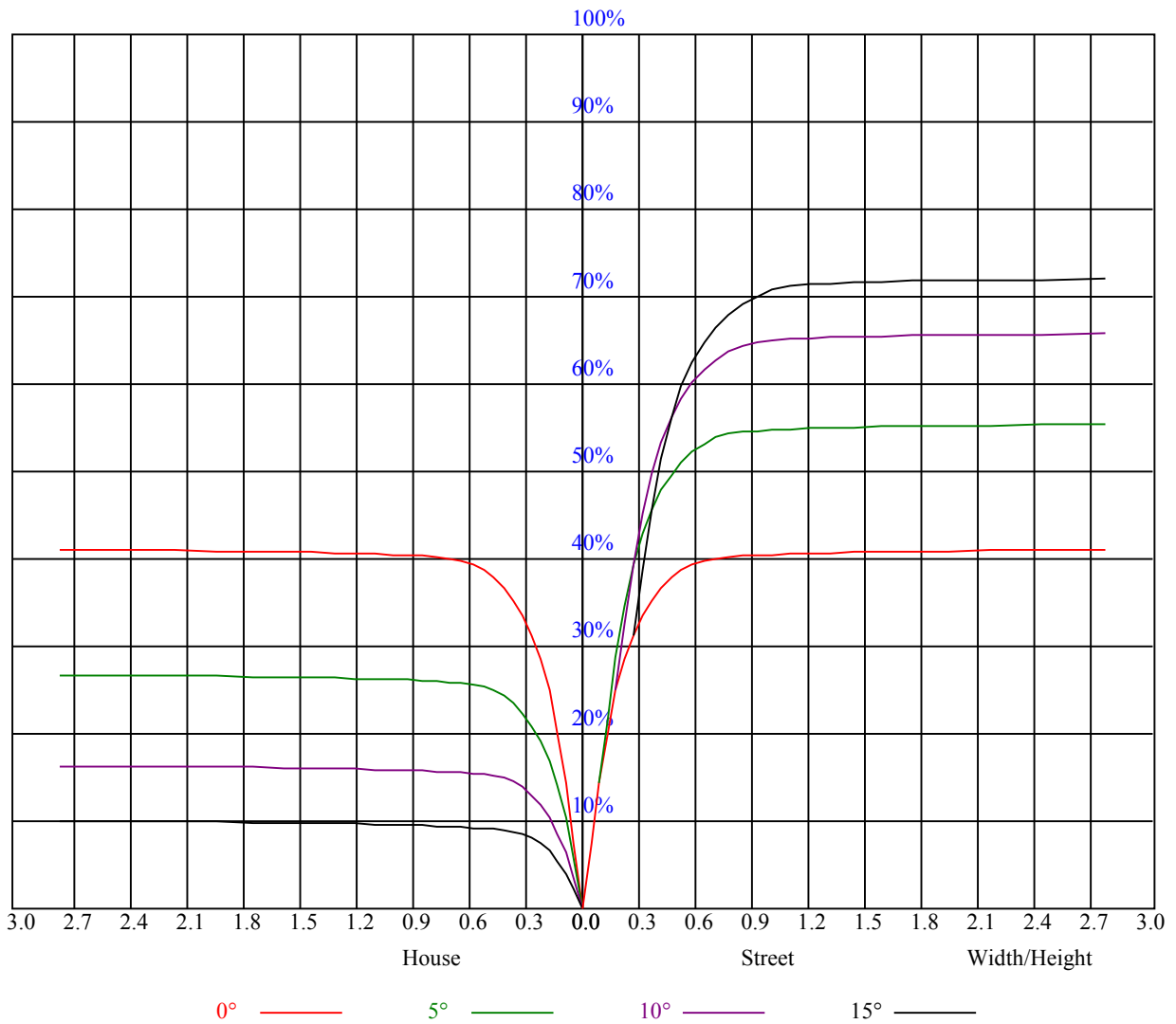
Luminance Limiting Curve



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	7.16	8.09	7.52	8.40	8.72	7.09	8.03	7.46	8.34	8.66
	3H	9.81	10.64	10.20	10.97	11.34	9.83	10.65	10.21	10.99	11.36
	4H	11.09	11.86	11.50	12.21	12.60	11.14	11.91	11.55	12.26	12.65
	6H	12.49	13.19	12.91	13.56	13.96	12.57	13.27	12.99	13.65	14.04
	8H	13.26	13.92	13.70	14.31	14.72	13.36	14.02	13.80	14.41	14.82
	12H	14.57	15.20	15.01	15.58	16.01	14.70	15.33	15.14	15.71	16.14
4H	2H	7.97	8.74	8.38	9.09	9.48	7.93	8.69	8.33	9.05	9.44
	3H	10.83	11.46	11.24	11.87	12.27	10.84	11.47	11.26	11.88	12.28
	4H	12.27	12.83	12.70	13.25	13.70	12.31	12.87	12.75	13.30	13.75
	6H	13.74	14.22	14.21	14.67	15.15	13.82	14.30	14.29	14.75	15.22
	8H	14.64	15.09	15.12	15.54	16.01	14.73	15.18	15.21	15.63	16.11
	12H	15.93	16.31	16.42	16.80	17.28	16.04	16.43	16.54	16.92	17.40
8H	4H	12.82	13.27	13.29	13.72	14.19	12.85	13.30	13.33	13.75	14.23
	6H	14.59	14.94	15.10	15.45	15.93	14.65	15.01	15.16	15.51	16.00
	8H	15.67	15.99	16.21	16.51	17.01	15.76	16.07	16.29	16.60	17.09
	12H	17.20	17.47	17.73	17.97	18.55	17.31	17.57	17.83	18.07	18.66
12H	4H	12.95	13.33	13.44	13.82	14.30	12.98	13.37	13.47	13.85	14.33
	6H	15.06	15.15	15.37	15.62	16.17	15.12	15.21	15.43	15.68	16.23
	8H	16.05	16.32	16.57	16.81	17.40	16.12	16.39	16.65	16.89	17.47
Variation with the observer position at spacings:											
S = 1.0H	3.6/-1.9					3.6/-1.9					
S = 1.5H	4.4/-1.6					4.4/-1.6					
S = 2.0H	5.0/-1.3					5.0/-1.3					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	3.1					3.1					



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	0.99	0.99	0.99	0.96	0.96	0.96	0.92	0.92	0.92	0.88	0.88	0.88	0.85	0.85	0.85	0.83
1	0.93	0.91	0.89	0.91	0.89	0.88	0.88	0.86	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.88	0.85	0.83	0.87	0.84	0.82	0.84	0.82	0.80	0.82	0.80	0.79	0.79	0.78	0.77	0.76
3	0.84	0.81	0.78	0.83	0.80	0.78	0.81	0.78	0.76	0.79	0.77	0.75	0.77	0.76	0.74	0.73
4	0.81	0.77	0.74	0.80	0.76	0.74	0.78	0.75	0.73	0.76	0.74	0.72	0.75	0.73	0.71	0.70
5	0.77	0.74	0.71	0.77	0.73	0.71	0.75	0.72	0.70	0.74	0.72	0.70	0.73	0.71	0.69	0.68
6	0.75	0.71	0.68	0.74	0.71	0.68	0.73	0.70	0.68	0.72	0.69	0.67	0.71	0.69	0.67	0.66
7	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.64
8	0.70	0.66	0.64	0.69	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.62
9	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.66	0.63	0.61	0.60
10	0.66	0.62	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.62	0.60	0.64	0.61	0.60	0.59





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	13781.25	13938.75	13730.63	13280.63	12650.63	11677.50	10816.88	9905.63	8842.50
45.0	13786.88	13820.63	13511.25	12999.38	12240.00	11362.50	10501.88	9438.75	8482.50
90.0	13815.00	13500.00	12898.13	12099.38	11187.56	10413.00	9357.19	8262.00	7296.75
135.0	13921.88	13590.00	12971.25	12256.88	11548.13	10333.13	9393.75	8550.00	7335.00
180.0	13781.25	13365.00	12588.75	11166.19	10939.50	10015.88	8921.81	7824.94	6747.19
225.0	13786.88	13466.25	12937.50	11902.50	11222.44	10309.50	9240.75	8159.06	7201.13
270.0	13815.00	13865.63	13550.63	13038.75	12256.88	11328.75	10406.25	9455.63	8358.75
315.0	13921.88	13921.88	13606.88	13021.88	12330.00	11168.44	10481.63	9417.38	8440.88
360.0	13781.25	13938.75	13730.63	13280.63	12650.63	11677.50	10816.88	9905.63	8842.50
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7785.00	6868.13	5878.13	5090.63	4308.75	3661.88	3189.38	2851.88	2437.31
45.0	7413.75	6367.50	5518.13	4758.75	3948.75	3436.88	3026.25	2846.25	2359.13
90.0	6247.13	5293.69	4559.06	3857.63	3347.44	2883.94	2519.44	2253.94	2027.25
135.0	6305.63	5563.13	4612.50	3982.50	3459.38	2936.25	2846.25	2314.13	2064.94
180.0	5843.25	4947.19	4269.38	3637.69	3187.13	2777.63	2454.19	2214.56	2004.19
225.0	6176.81	5242.50	4513.50	3821.06	3319.31	2872.13	2518.88	2262.94	2047.50
270.0	7284.38	6243.75	5394.38	4635.00	3915.00	3324.38	2908.13	2670.75	2237.06
315.0	7349.06	6284.81	5408.44	4546.69	3905.44	3324.38	2866.50	2532.94	2268.00
360.0	7785.00	6868.13	5878.13	5090.63	4308.75	3661.88	3189.38	2851.88	2437.31
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2197.69	1992.38	1773.56	1624.50	1492.88	1362.38	1252.69	1172.25	1096.31
45.0	2124.56	1928.81	1717.88	1569.38	1432.13	1298.81	1207.69	1131.75	1056.94
90.0	1783.69	1620.56	1483.88	1337.63	1239.19	1121.29	1072.58	1011.88	953.83
135.0	1861.31	1710.00	1525.50	1403.44	1283.06	1181.25	1108.13	1049.63	985.50
180.0	1776.94	1618.31	1477.13	1319.63	1217.81	1116.17	1056.83	991.80	919.63
225.0	1817.44	1659.94	1521.56	1367.44	1261.13	1114.71	1088.16	1018.58	957.66
270.0	2023.88	1840.50	1642.50	1507.50	1388.25	1270.13	1174.50	1104.75	1035.56
315.0	1999.13	1819.69	1661.63	1492.88	1374.75	1272.38	1118.98	1104.81	1046.93
360.0	2197.69	1992.38	1773.56	1624.50	1492.88	1362.38	1252.69	1172.25	1096.31
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1029.94	966.94	870.75	774.00	657.56	541.69	443.25	335.25	300.94
45.0	991.13	916.88	810.56	708.19	595.69	478.13	388.69	294.19	186.69
90.0	860.74	778.39	666.51	540.34	453.66	343.97	237.32	175.44	118.80
135.0	898.88	807.19	691.88	583.88	469.13	356.06	288.00	173.03	109.41
180.0	817.99	718.88	600.81	487.58	393.19	289.97	199.35	134.27	90.11
225.0	863.10	763.37	651.94	552.38	440.83	335.42	237.04	160.59	104.34
270.0	969.75	892.13	786.38	685.69	572.06	462.94	368.44	291.94	176.91
315.0	984.26	903.77	800.27	685.13	581.63	470.08	361.97	271.46	189.84
360.0	1029.94	966.94	870.75	774.00	657.56	541.69	443.25	335.25	300.94
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	158.51	103.28	73.91	66.43	59.79	54.39	49.39	45.17	41.34
45.0	121.95	85.44	68.23	61.43	55.18	49.50	45.56	41.85	37.97
90.0	79.31	72.23	65.36	58.11	53.38	48.38	43.65	39.49	36.34
135.0	80.61	70.20	60.81	55.29	51.36	46.24	42.02	38.81	35.49
180.0	69.92	62.21	55.41	50.06	45.79	41.74	38.08	34.88	32.29
225.0	73.07	65.25	58.22	51.53	47.48	43.20	39.60	35.61	32.96
270.0	116.10	81.79	68.23	61.71	56.03	51.24	46.58	42.69	38.81
315.0	113.91	83.08	72.84	64.29	58.28	53.83	48.49	44.38	40.50
360.0	158.51	103.28	73.91	66.43	59.79	54.39	49.39	45.17	41.34

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	37.41	34.43	32.29	29.76	27.96	26.49	25.03	24.30	23.29
45.0	34.65	32.23	29.87	27.96	26.55	24.98	24.02	23.29	22.33
90.0	33.47	31.22	29.03	27.56	26.10	25.03	24.02	23.34	22.67
135.0	32.85	30.77	28.86	27.62	26.21	25.26	24.41	23.74	22.95
180.0	29.87	28.13	26.78	25.31	24.36	23.51	22.67	22.05	21.66
225.0	30.66	28.46	26.61	25.37	24.13	23.12	22.39	21.71	21.15
270.0	35.55	32.91	30.49	28.63	27.28	25.54	24.64	23.91	22.95
315.0	36.79	34.65	31.89	29.93	28.74	26.89	25.88	25.03	24.30
360.0	37.41	34.43	32.29	29.76	27.96	26.49	25.03	24.30	23.29
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.50	21.99	21.60	21.21	20.93	20.76	20.25	20.14	19.91
45.0	21.83	21.43	21.04	20.70	20.48	20.14	19.91	19.74	19.46
90.0	22.16	21.71	21.32	21.04	20.59	20.31	20.14	19.80	19.63
135.0	22.67	22.22	21.88	21.66	21.26	21.09	20.81	20.53	20.42
180.0	21.26	20.93	20.76	20.42	20.19	20.03	19.74	19.80	19.58
225.0	20.87	20.48	20.19	20.08	19.69	19.58	19.41	19.18	19.18
270.0	22.44	22.05	21.60	21.21	20.98	20.64	20.36	20.19	19.91
315.0	23.46	23.12	22.67	22.22	21.77	21.43	21.04	20.87	20.59
360.0	22.50	21.99	21.60	21.21	20.93	20.76	20.25	20.14	19.91
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.63	19.52	19.29	18.84	18.45	17.94	17.49	17.16	16.71
45.0	19.29	19.13	18.68	18.28	17.83	17.27	16.88	16.48	16.03
90.0	19.52	18.84	18.45	17.94	17.38	16.99	16.54	16.14	15.81
135.0	20.19	19.74	19.29	18.73	18.17	17.78	17.27	16.88	16.43
180.0	19.24	18.90	18.51	17.83	17.49	17.16	16.59	16.31	15.92
225.0	18.96	18.68	18.28	17.94	17.38	17.04	16.48	16.09	15.75
270.0	19.80	19.63	19.18	18.73	18.23	17.66	17.27	16.76	16.31
315.0	20.36	20.25	19.69	19.18	18.73	18.11	17.66	17.16	16.71
360.0	19.63	19.52	19.29	18.84	18.45	17.94	17.49	17.16	16.71
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	16.20	15.81	15.47	15.08	14.68	14.34	13.95	13.73	13.44
45.0	15.69	15.24	14.96	14.57	14.18	13.89	13.61	13.33	12.99
90.0	15.30	14.91	14.57	14.23	13.89	13.61	13.33	13.05	12.77
135.0	15.98	15.64	15.19	14.74	14.46	14.18	13.78	13.44	13.22
180.0	15.47	15.19	14.85	14.51	14.18	13.95	13.61	13.33	13.11
225.0	15.30	14.91	14.57	14.23	13.89	13.67	13.39	13.11	12.83
270.0	15.98	15.53	15.13	14.68	14.40	14.06	13.73	13.50	13.16
315.0	16.26	15.81	15.47	15.08	14.57	14.23	13.95	13.61	13.28
360.0	16.20	15.81	15.47	15.08	14.68	14.34	13.95	13.73	13.44
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.11	12.88	12.60	12.38	12.09	11.93	11.70	11.53	11.31
45.0	12.83	12.54	12.32	12.09	11.93	11.76	11.64	11.53	11.31
90.0	12.54	12.32	12.26	11.81	11.64	11.48	11.36	11.14	10.29
135.0	12.88	12.54	12.21	11.93	11.81	11.64	11.48	11.25	10.46
180.0	12.83	12.71	12.43	12.15	12.04	11.98	11.76	11.42	10.46
225.0	12.54	12.32	12.04	11.81	11.59	11.42	11.31	11.08	10.46
270.0	12.88	12.60	12.26	11.98	11.76	11.42	11.14	11.03	10.97
315.0	12.99	12.71	12.43	12.15	11.87	11.64	11.42	11.19	11.08
360.0	13.11	12.88	12.60	12.38	12.09	11.93	11.70	11.53	11.31

Intensity data(cd)

<b>C/γ(°)</b>	<b>90.0</b>
<b>0.0</b>	<b>10.74</b>
<b>45.0</b>	<b>10.41</b>
<b>90.0</b>	<b>10.35</b>
<b>135.0</b>	<b>10.41</b>
<b>180.0</b>	<b>10.41</b>
<b>225.0</b>	<b>10.41</b>
<b>270.0</b>	<b>10.46</b>
<b>315.0</b>	<b>10.52</b>
<b>360.0</b>	<b>10.74</b>