
LumCAT: 61.0080.000(CT01D03510CH)

Luminaire: 92.70.183.00

Report No:

Voltage(V): 36.9900

Test No: GC2019062004

Current(A): 0.1970

LampCAT: CITIZEN CLU7A2

Power (W): 7.2900

Lamp flux(lm): 686.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 35

Width(mm): 35

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 628.44

Efficiency(%): 91.61%

Lumens(lm)/Power(W): 86.21

Central intensity(cd): 7424.859

Maximum intensity(cd): 7424.859

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=12.0

[C90/270]Total=12.0

Field angle(10%Imax): [C0/180]Total=24.2

[C90/270]Total=24.2

Maximum s/h(1/2): C0_180=0.21 C90_270=0.21

Maximum s/h(1/4): C0_180=0.21 C90_270=0.21

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.61%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 94.321%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7424.859	0.000	0	.000%	.000%
1.0	7303.500	7.047	7.047	1.027%	1.121%
2.0	6933.445	20.434	27.481	2.979%	4.373%
3.0	6312.656	31.680	59.162	4.618%	9.414%
4.0	5577.891	39.801	98.963	5.802%	15.748%
5.0	4645.969	43.983	142.946	6.411%	22.746%
6.0	3726.914	44.002	186.947	6.414%	29.748%
7.0	2863.688	40.908	227.855	5.963%	36.257%
8.0	2163.094	35.976	263.831	5.244%	41.982%
9.0	1616.534	30.632	294.463	4.465%	46.856%
10.0	1216.139	25.635	320.097	3.737%	50.935%
11.0	948.642	21.631	341.728	3.153%	54.377%
12.0	760.718	18.686	360.414	2.724%	57.351%
13.0	612.788	16.300	376.714	2.376%	59.945%
14.0	496.118	14.194	390.908	2.069%	62.203%
15.0	416.412	12.528	403.435	1.826%	64.197%
16.0	352.223	11.263	414.698	1.642%	65.989%
17.0	306.703	10.261	424.959	1.496%	67.622%
18.0	260.909	9.359	434.318	1.364%	69.111%
19.0	230.702	8.553	442.871	1.247%	70.472%
20.0	200.897	7.899	450.77	1.152%	71.729%
21.0	178.242	7.280	458.051	1.061%	72.887%
22.0	161.227	6.822	464.872	.994%	73.973%
23.0	145.273	6.431	471.304	.937%	74.996%
24.0	131.583	6.053	477.357	.882%	75.959%
25.0	120.192	5.725	483.081	.835%	76.870%
26.0	109.716	5.427	488.508	.791%	77.734%
27.0	100.406	5.141	493.649	.749%	78.552%
28.0	92.384	4.881	498.53	.712%	79.329%
29.0	84.713	4.633	503.164	.675%	80.066%
30.0	77.590	4.382	507.546	.639%	80.763%
31.0	71.648	4.153	511.699	.605%	81.424%
32.0	65.784	3.937	515.636	.574%	82.050%
33.0	60.940	3.733	519.369	.544%	82.645%
34.0	56.869	3.565	522.935	.520%	83.212%
35.0	52.980	3.412	526.346	.497%	83.755%
36.0	49.563	3.265	529.611	.476%	84.274%
37.0	46.828	3.144	532.755	.458%	84.775%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	44.114	3.036	535.79	.442%	85.258%
39.0	41.913	2.936	538.727	.428%	85.725%
40.0	40.226	2.865	541.591	.418%	86.181%
41.0	38.834	2.815	544.407	.410%	86.629%
42.0	37.596	2.777	547.184	.405%	87.070%
43.0	36.640	2.750	549.933	.401%	87.508%
44.0	35.880	2.737	552.671	.399%	87.944%
45.0	35.149	2.730	555.4	.398%	88.378%
46.0	34.418	2.721	558.121	.397%	88.811%
47.0	33.630	2.706	560.827	.395%	89.242%
48.0	32.941	2.691	563.519	.392%	89.670%
49.0	32.133	2.672	566.191	.390%	90.095%
50.0	31.240	2.642	568.833	.385%	90.515%
51.0	30.403	2.608	571.441	.380%	90.930%
52.0	29.616	2.575	574.017	.375%	91.340%
53.0	28.730	2.538	576.555	.370%	91.744%
54.0	27.773	2.490	579.045	.363%	92.140%
55.0	26.902	2.441	581.486	.356%	92.529%
56.0	25.952	2.388	583.874	.348%	92.909%
57.0	24.905	2.325	586.199	.339%	93.279%
58.0	23.857	2.255	588.454	.329%	93.638%
59.0	22.901	2.186	590.64	.319%	93.986%
60.0	21.769	2.110	592.751	.308%	94.321%
61.0	20.580	2.021	594.771	.295%	94.643%
62.0	19.477	1.930	596.702	.281%	94.950%
63.0	18.429	1.844	598.545	.269%	95.243%
64.0	17.346	1.755	600.301	.256%	95.523%
65.0	16.320	1.666	601.967	.243%	95.788%
66.0	15.483	1.587	603.554	.231%	96.040%
67.0	14.639	1.515	605.068	.221%	96.281%
68.0	13.992	1.450	606.518	.211%	96.512%
69.0	13.359	1.395	607.914	.203%	96.734%
70.0	12.867	1.347	609.261	.196%	96.949%
71.0	12.389	1.305	610.566	.190%	97.156%
72.0	11.932	1.265	611.831	.184%	97.357%
73.0	11.538	1.227	613.058	.179%	97.553%
74.0	11.159	1.193	614.251	.174%	97.743%
75.0	10.765	1.158	615.41	.169%	97.927%

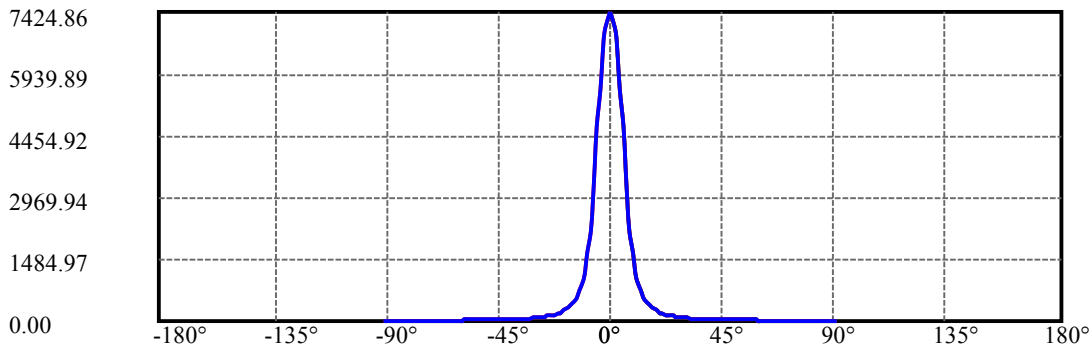
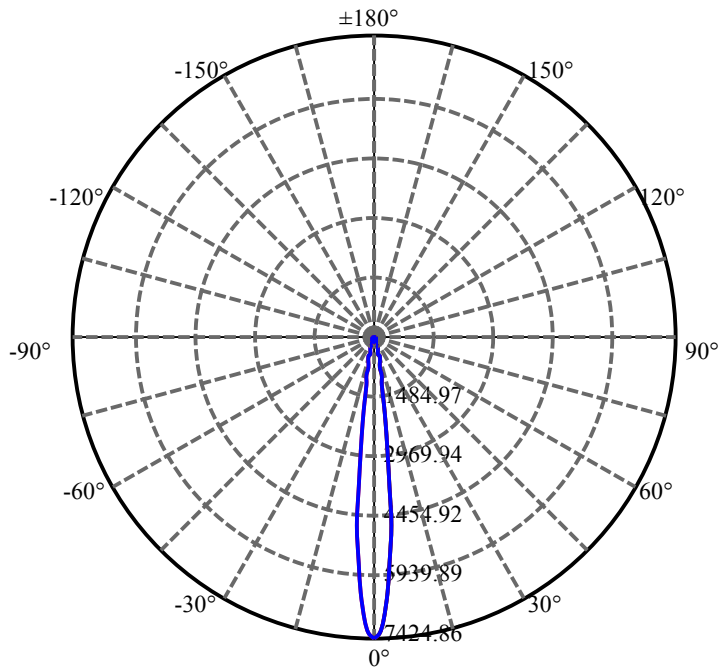
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.343	1.120	616.53	.163%	98.105%
77.0	9.921	1.080	617.611	.157%	98.277%
78.0	9.464	1.038	618.648	.151%	98.442%
79.0	9.084	0.997	619.645	.145%	98.601%
80.0	8.655	0.956	620.601	.139%	98.753%
81.0	8.332	0.919	621.52	.134%	98.899%
82.0	8.072	0.890	622.409	.130%	99.041%
83.0	7.854	0.866	623.275	.126%	99.179%
84.0	7.678	0.846	624.121	.123%	99.313%
85.0	7.495	0.828	624.95	.121%	99.445%
86.0	7.305	0.809	625.759	.118%	99.574%
87.0	6.947	0.780	626.539	.114%	99.698%
88.0	6.279	0.724	627.263	.106%	99.813%
89.0	5.309	0.635	627.898	.093%	99.914%
90.0	4.528	0.539	628.437	.079%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	507.55	73.99%	80.76%
0-40	541.59	78.95%	86.18%
0-60	592.75	86.41%	94.32%
0-90	627.90	91.53%	99.91%
0-120	627.90	91.53%	99.91%
0-180	628.44	91.61%	100.00%
60-90	37.26	5.43%	5.93%
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%
0-28.91	502.75	73.29%	80.00%

ZONAL LUMEN SUMMARY

0-10	320.10
10-20	130.67
20-30	56.78
30-40	34.05
40-50	27.24
50-60	23.92
60-70	16.51
70-80	11.34
80-90	7.30
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



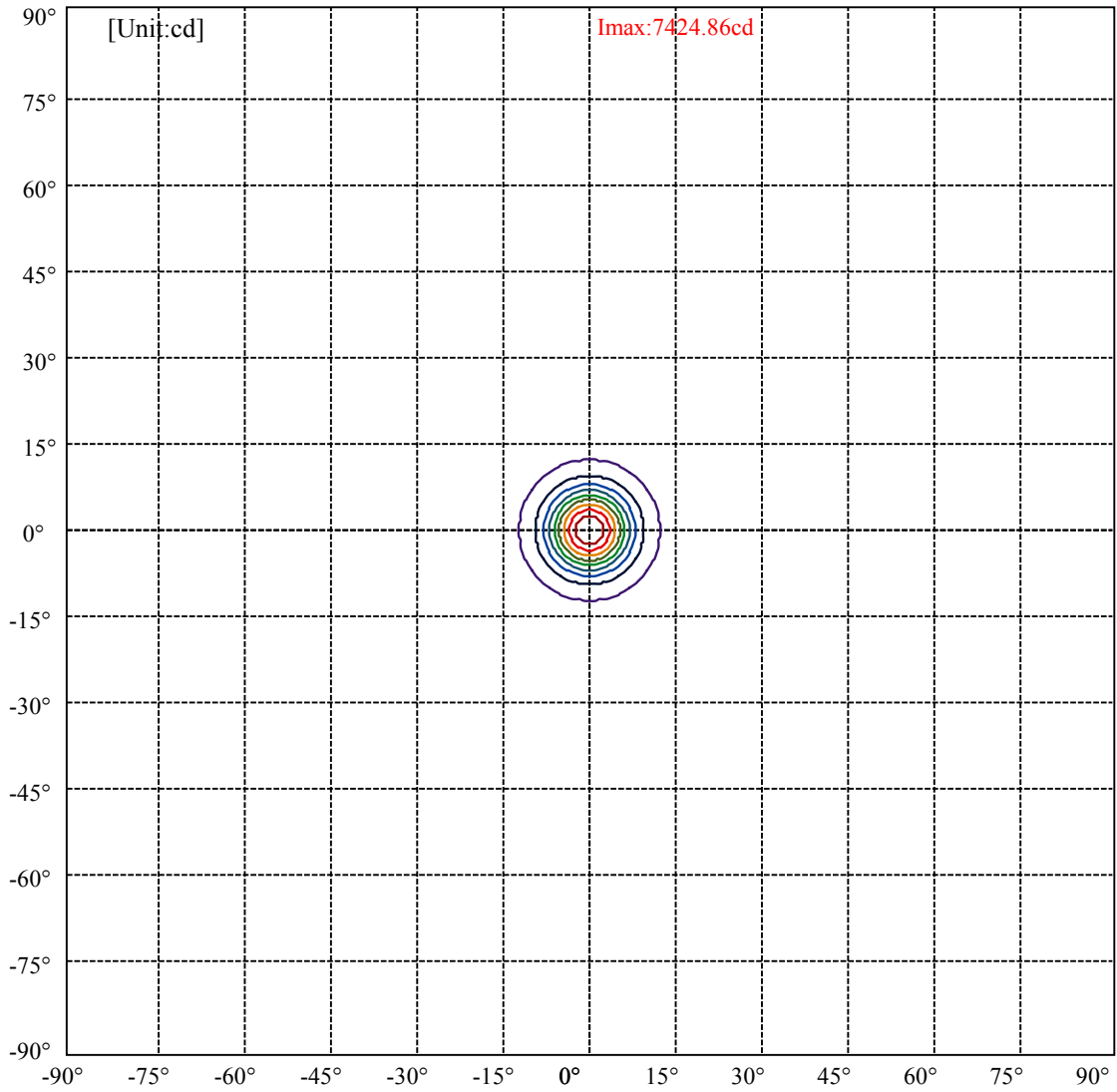
C0(Max): ———

C0/C180: ———

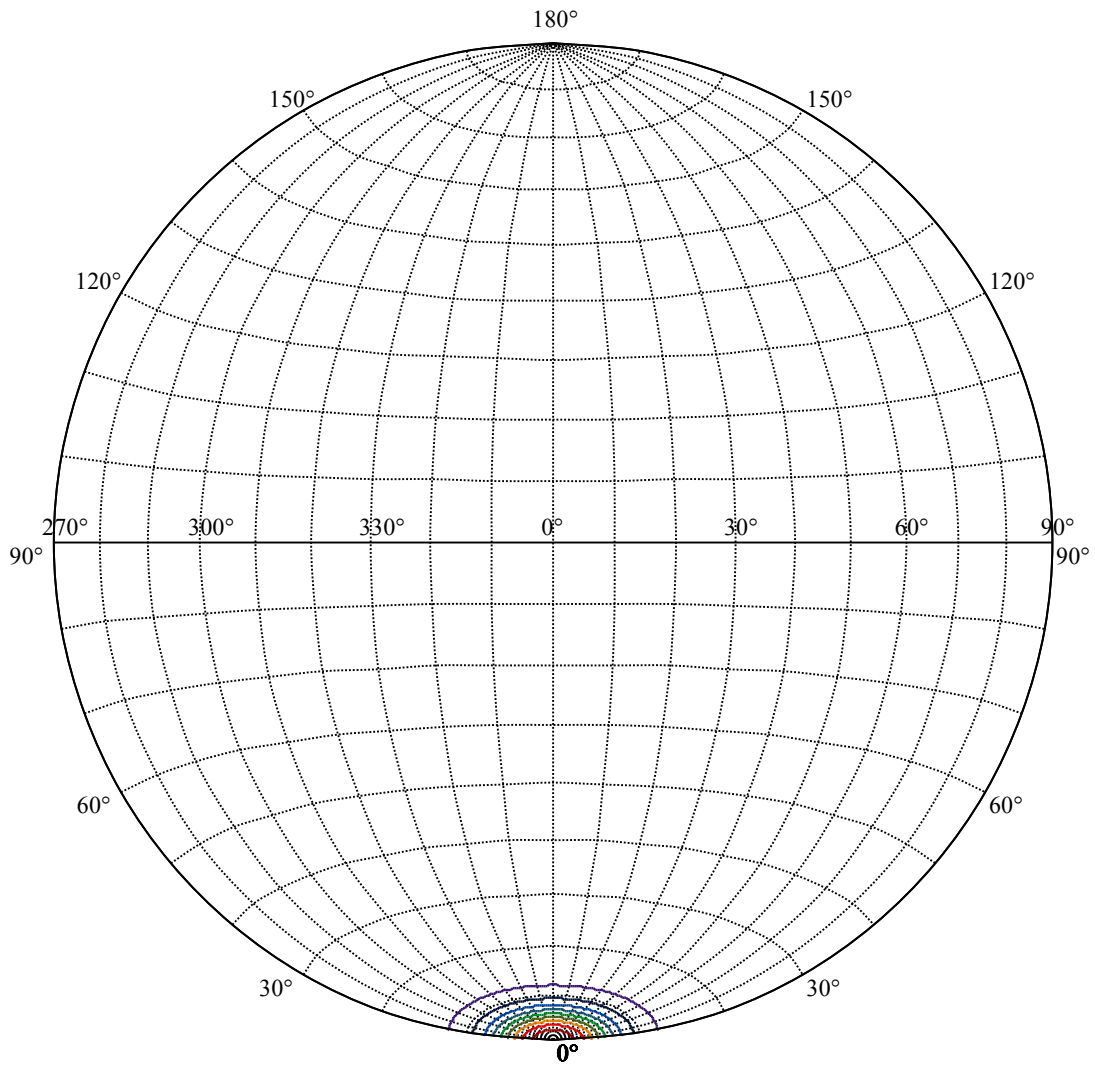
C90/C270: ———

Field angle(10%Imax):C0/180Left:12.1 Right:12.1
:C90/270Left:12.1 Right:12.1

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



(10%Imax) 742.486	—
(20%Imax) 1484.97	—
(30%Imax) 2227.46	—
(40%Imax) 2969.94	—
(50%Imax) 3712.43	—
(60%Imax) 4454.92	—
(70%Imax) 5197.4	—
(80%Imax) 5939.89	—
(90%Imax) 6682.37	—



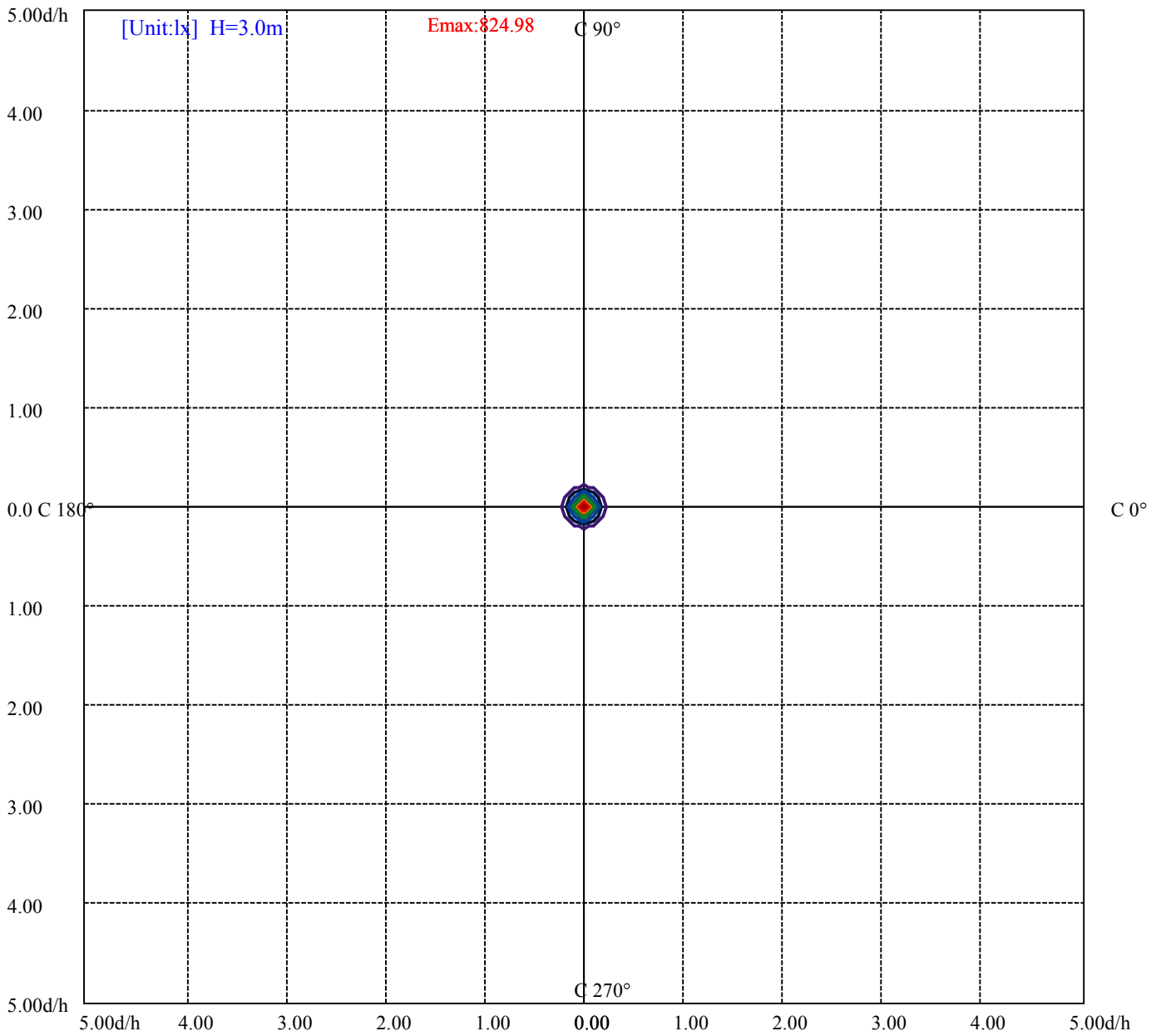
House

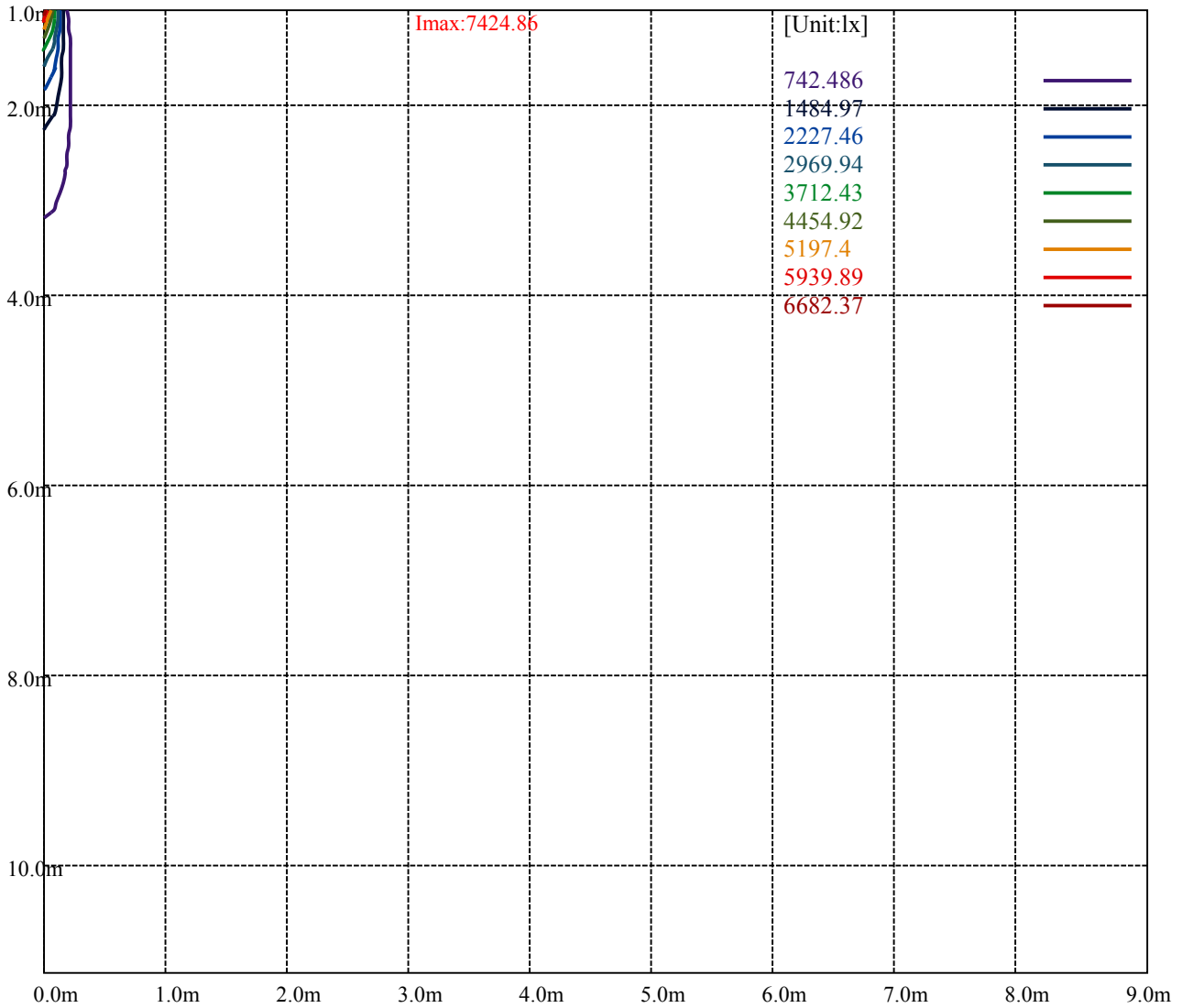
[Unit:cd]

Road

Imax:7424.86

(10%Imax) 742.486	—
(20%Imax) 1484.97	—
(30%Imax) 2227.46	—
(40%Imax) 2969.94	—
(50%Imax) 3712.43	—
(60%Imax) 4454.92	—
(70%Imax) 5197.4	—
(80%Imax) 5939.89	—
(90%Imax) 6682.37	—





Luminance Table

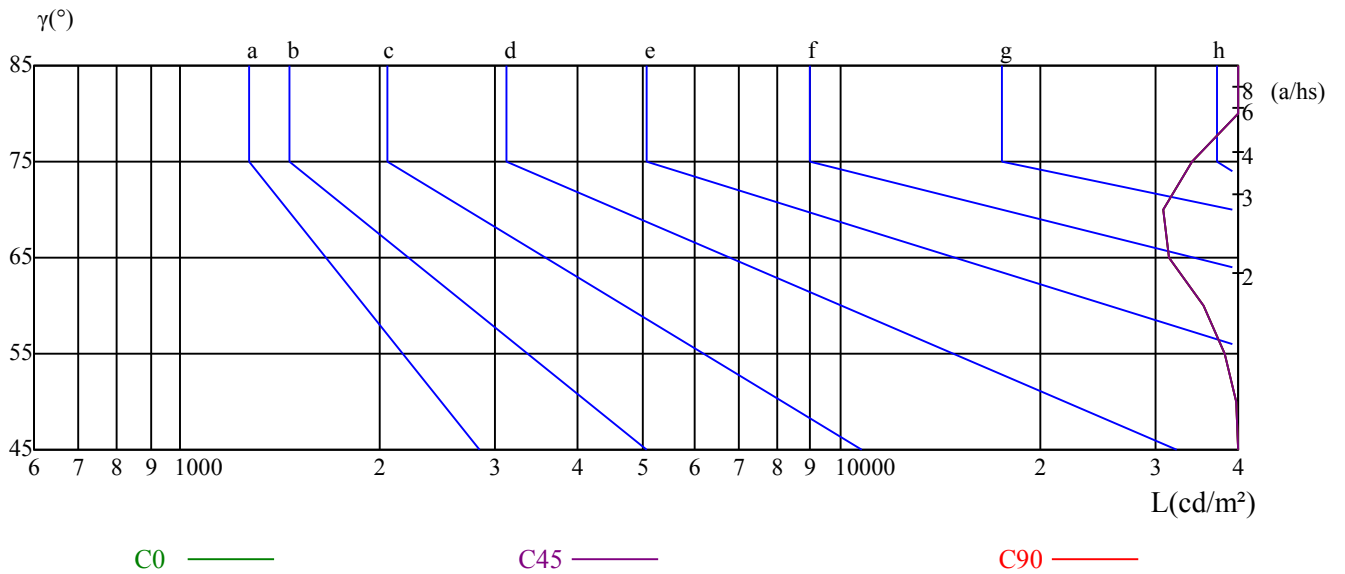
γ	45	50	55	60	65	70	75	80	85
C0	40578	39674	38287	35541	31523	30711	33953	40690	70203
C45	40578	39674	38287	35541	31523	30711	33953	40690	70203
C90	40578	39674	38287	35541	31523	30711	33953	40690	70203

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
31523	31523	31523	33953	33953	33953	70203	70203	70203

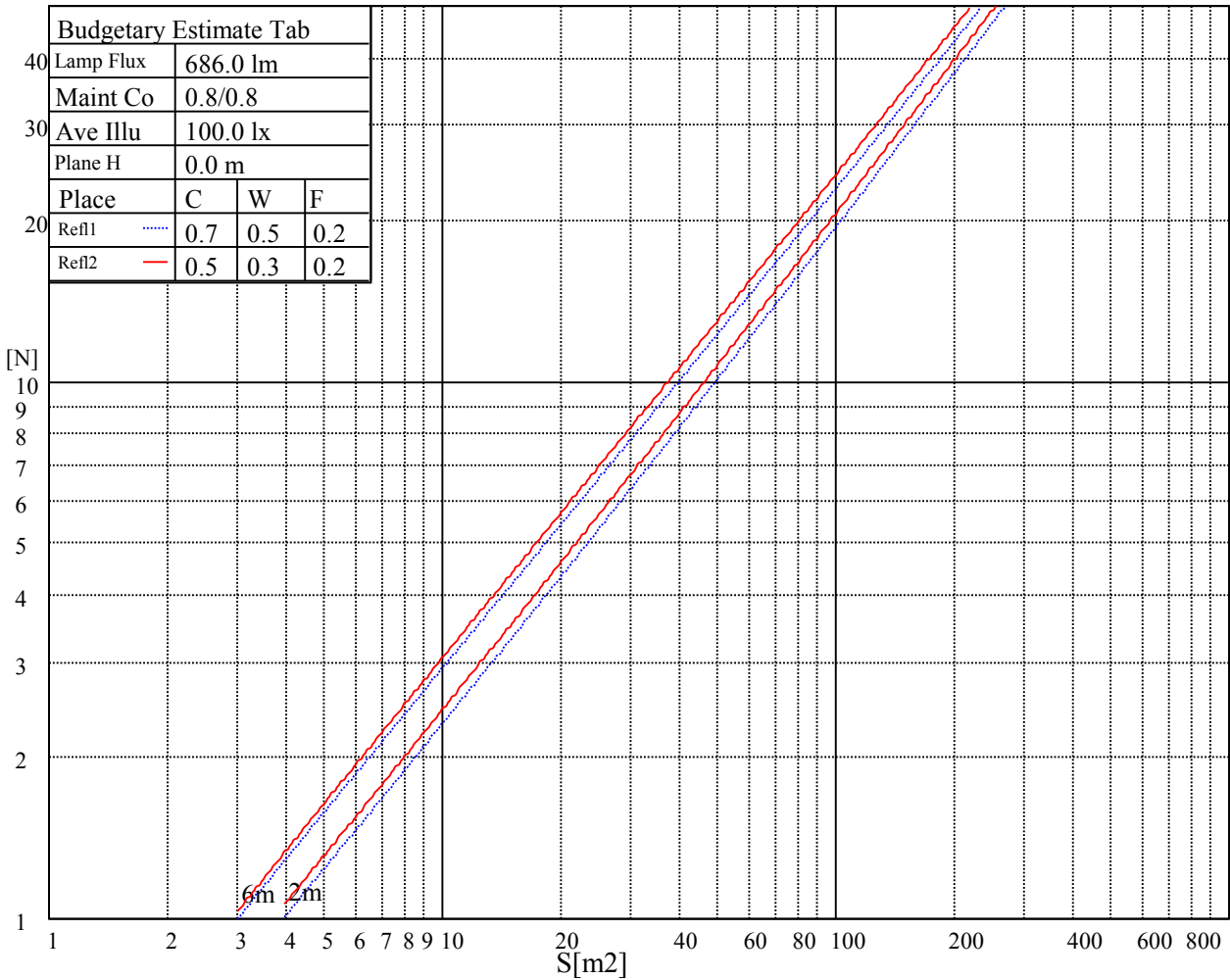
Glare Table

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

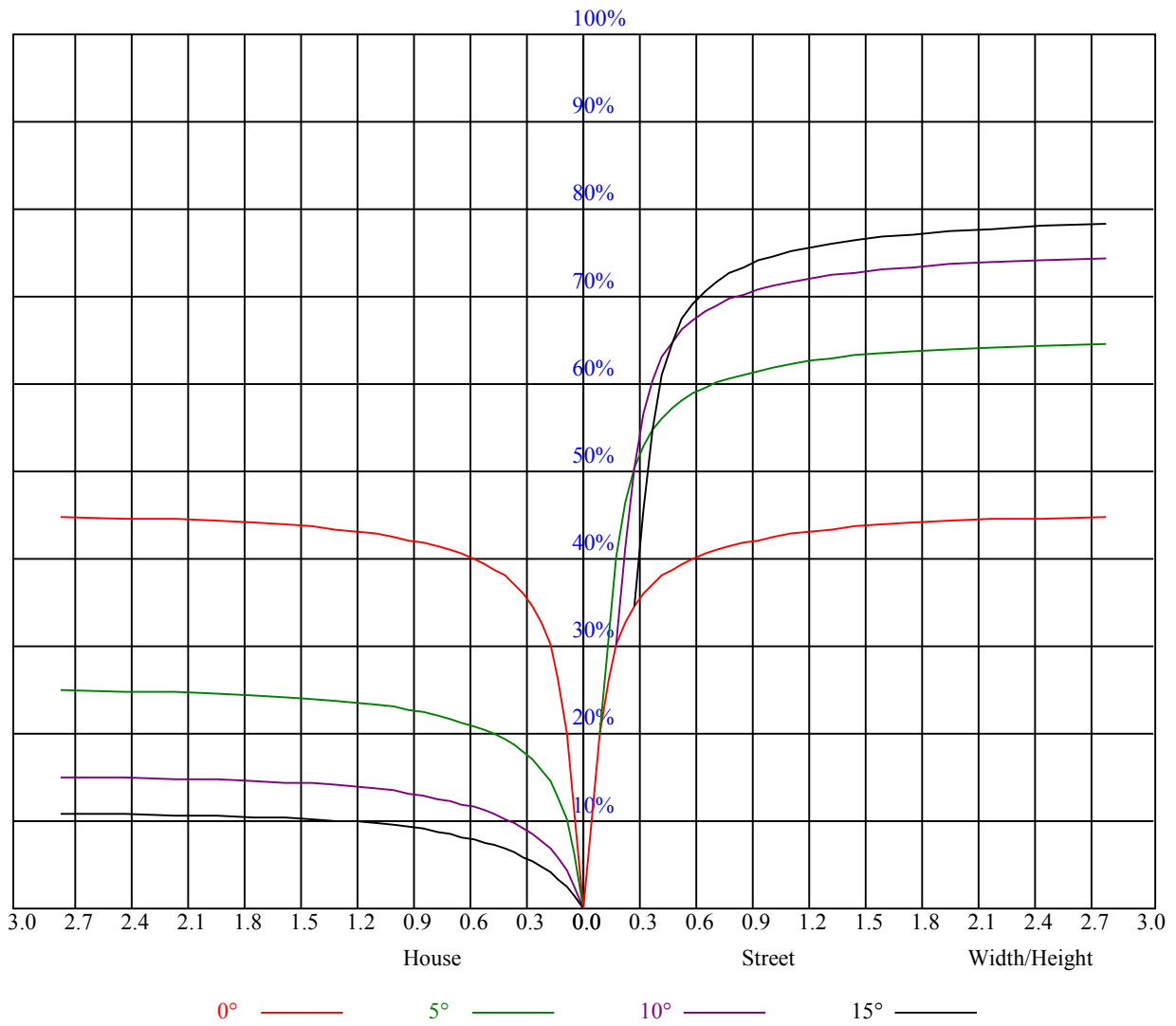
Luminance Limiting Curve



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	21.81	22.88	22.18	23.19	23.50	21.76	22.83	22.13	23.14	23.45
	3H	23.33	24.28	23.71	24.61	24.98	23.32	24.27	23.70	24.60	24.97
	4H	24.11	24.99	24.52	25.34	25.73	24.16	25.04	24.57	25.39	25.78
	6H	24.95	25.75	25.37	26.13	26.52	25.07	25.87	25.49	26.25	26.64
	8H	25.44	26.20	25.88	26.59	27.00	25.57	26.33	26.01	26.72	27.13
	12H	26.39	27.12	26.83	27.50	27.93	26.48	27.21	26.91	27.59	28.02
4H	2H	22.36	23.23	22.76	23.59	23.98	22.32	23.20	22.73	23.55	23.94
	3H	24.12	24.84	24.53	25.25	25.66	24.12	24.84	24.53	25.25	25.65
	4H	25.07	25.72	25.51	26.14	26.59	25.13	25.78	25.56	26.20	26.65
	6H	25.96	26.52	26.42	26.97	27.44	26.07	26.63	26.54	27.08	27.56
	8H	26.58	27.11	27.06	27.56	28.03	26.71	27.23	27.18	27.68	28.16
	12H	27.58	28.04	28.07	28.53	29.00	27.66	28.12	28.15	28.60	29.08
8H	4H	25.46	25.98	25.93	26.43	26.90	25.51	26.03	25.98	26.48	26.95
	6H	26.62	27.04	27.13	27.54	28.03	26.73	27.15	27.23	27.65	28.13
	8H	27.44	27.81	27.97	28.33	28.83	27.54	27.92	28.07	28.44	28.93
	12H	28.79	29.11	29.31	29.61	30.19	28.85	29.17	29.37	29.67	30.25
12H	4H	25.53	25.98	26.02	26.47	26.95	25.57	26.03	26.06	26.51	26.99
	6H	27.17	27.18	27.33	27.65	28.19	27.27	27.27	27.43	27.74	28.29
	8H	27.74	28.06	28.26	28.56	29.14	27.83	28.16	28.35	28.66	29.23
Variation with the observer position at spacings:											
S = 1.0H	0.2/-0.8					0.2/-0.8					
S = 1.5H	0.4/-0.7					0.4/-0.7					
S = 2.0H	0.4/-0.9					0.4/-0.9					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	10.0					10.0					



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	1.07	1.07	1.07	1.02	1.02	1.02	0.97	0.97	0.97	0.93	0.93	0.93	0.92
1	1.02	1.00	0.98	1.00	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.90	0.90	0.89	0.88	0.86
2	0.96	0.93	0.90	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.91	0.87	0.84	0.90	0.87	0.84	0.88	0.85	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
4	0.87	0.83	0.80	0.86	0.83	0.80	0.85	0.81	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.77	0.83	0.79	0.76	0.82	0.78	0.76	0.80	0.77	0.75	0.79	0.77	0.75	0.73
6	0.81	0.77	0.74	0.81	0.77	0.74	0.79	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.73	0.71	0.70
8	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.68
9	0.75	0.71	0.68	0.74	0.71	0.68	0.74	0.70	0.68	0.73	0.70	0.68	0.72	0.70	0.67	0.67
10	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.66	0.65



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	7571.81	7480.13	7119.56	6603.75	5805.00	4854.94	3950.44	3020.63	2340.56
45.0	7369.31	7000.88	6302.81	5554.13	4704.75	3616.88	2799.56	2120.63	1572.19
90.0	7266.38	6859.13	6254.44	5274.00	4395.38	3508.31	2611.13	1910.81	1459.69
135.0	7491.94	7297.88	6891.19	6279.75	5397.19	4415.63	3497.06	2597.63	1983.94
180.0	7571.81	7422.19	7041.38	6317.44	5547.38	4646.25	3588.75	2629.13	1967.63
225.0	7369.31	7528.50	7437.94	7048.69	6514.31	5695.88	4818.38	3791.81	2846.81
270.0	7266.38	7466.06	7383.38	7052.06	6594.19	5611.50	4736.81	3940.88	2894.06
315.0	7491.94	7373.25	7036.88	6371.44	5664.94	4818.38	3813.19	2898.00	2239.88
360.0	7571.81	7480.13	7119.56	6603.75	5805.00	4854.94	3950.44	3020.63	2340.56
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1755.00	1335.38	1058.63	843.75	644.06	528.19	442.69	363.94	316.13
45.0	1190.81	938.81	726.19	576.56	480.38	398.81	344.81	295.88	286.31
90.0	1095.02	838.97	674.89	540.51	451.13	374.23	314.21	272.14	238.73
135.0	1487.81	1138.50	906.19	715.50	575.44	479.81	403.31	329.06	287.44
180.0	1443.38	1091.53	871.03	710.72	581.51	486.56	414.23	361.46	315.84
225.0	2140.88	1563.19	1101.83	930.21	749.70	591.02	501.69	430.20	371.81
270.0	2148.75	1701.00	1249.31	991.13	792.00	608.63	498.94	414.00	334.69
315.0	1670.63	1121.74	1001.08	777.38	628.09	501.69	411.41	351.11	302.68
360.0	1755.00	1335.38	1058.63	843.75	644.06	528.19	442.69	363.94	316.13
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	286.31	240.69	213.64	193.28	174.99	158.79	144.34	131.12	120.04
45.0	225.90	202.16	177.58	160.09	145.35	132.47	120.83	113.06	104.46
90.0	203.96	181.97	164.08	144.68	132.13	120.83	109.24	99.11	91.01
135.0	242.66	216.45	184.33	165.54	151.03	133.31	121.11	111.77	100.35
180.0	267.53	234.62	208.13	181.24	164.76	150.19	136.07	123.47	113.01
225.0	316.46	278.27	242.94	211.78	189.00	168.36	153.17	138.04	126.06
270.0	288.00	265.05	215.10	193.05	173.64	154.01	140.34	127.86	115.76
315.0	256.44	226.41	201.38	176.29	158.91	144.23	127.58	117.11	107.04
360.0	286.31	240.69	213.64	193.28	174.99	158.79	144.34	131.12	120.04
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	108.62	98.94	91.24	84.04	76.56	69.58	63.90	57.54	53.38
45.0	97.37	90.73	84.66	79.31	74.03	69.98	66.04	62.94	60.02
90.0	82.63	75.49	69.41	63.23	58.33	53.55	49.50	46.58	43.76
135.0	91.46	84.71	76.78	70.37	65.14	59.57	55.01	51.75	47.53
180.0	103.61	94.16	85.61	77.46	71.55	65.03	59.96	55.41	51.69
225.0	117.84	109.86	101.03	92.81	86.29	79.54	75.43	71.38	66.99
270.0	105.41	96.58	87.81	80.61	73.24	66.66	61.20	56.59	51.47
315.0	96.30	88.59	81.17	72.90	68.06	62.38	56.48	52.76	48.99
360.0	108.62	98.94	91.24	84.04	76.56	69.58	63.90	57.54	53.38
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	49.50	45.96	42.19	39.54	37.35	35.33	33.86	32.74	31.56
45.0	57.94	56.36	54.51	53.66	53.10	52.54	51.81	51.36	50.40
90.0	41.06	38.98	36.96	34.54	32.96	31.56	30.38	29.42	28.74
135.0	44.83	41.96	38.70	36.79	35.16	33.69	32.51	31.33	30.83
180.0	48.15	44.83	42.30	39.66	37.58	36.11	34.76	33.36	32.34
225.0	62.49	59.63	57.09	54.84	53.55	52.76	51.92	51.58	51.41
270.0	47.98	44.94	41.40	38.87	36.45	34.31	32.29	30.83	29.59
315.0	44.55	41.96	39.77	37.41	35.66	34.37	33.24	32.51	32.18
360.0	49.50	45.96	42.19	39.54	37.35	35.33	33.86	32.74	31.56

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	30.43	29.53	28.52	27.68	26.72	25.93	25.31	24.69	23.68
45.0	48.94	47.59	46.07	44.16	41.96	39.49	37.24	35.04	32.63
90.0	27.90	27.11	26.55	25.88	25.31	25.03	24.53	23.91	23.29
135.0	30.71	30.38	30.26	30.32	30.43	30.49	30.54	30.77	31.16
180.0	31.22	30.32	29.19	28.35	27.28	26.27	25.31	24.41	23.63
225.0	51.13	50.46	49.39	47.98	46.46	44.44	42.30	40.39	38.42
270.0	28.74	27.84	26.83	26.61	26.16	25.26	24.81	24.24	23.34
315.0	32.12	32.12	32.23	32.57	32.74	33.02	33.19	33.47	33.69
360.0	30.43	29.53	28.52	27.68	26.72	25.93	25.31	24.69	23.68
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	22.73	21.83	20.81	19.97	19.35	18.68	18.11	17.44	16.88
45.0	30.32	28.24	26.04	23.79	22.05	20.70	19.01	18.17	17.44
90.0	22.56	21.99	21.43	20.59	19.80	19.13	18.45	17.66	16.99
135.0	31.50	31.78	31.89	31.61	31.22	30.43	29.03	27.39	25.37
180.0	22.67	21.94	21.09	20.42	19.52	18.90	18.28	17.44	16.88
225.0	35.66	33.36	31.11	28.69	26.33	24.36	22.50	20.64	19.29
270.0	22.95	22.22	21.38	20.70	20.03	19.29	18.51	17.78	17.10
315.0	33.81	33.86	33.86	33.47	32.57	31.73	30.26	28.13	25.88
360.0	22.73	21.83	20.81	19.97	19.35	18.68	18.11	17.44	16.88
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	16.37	15.75	15.30	14.85	14.23	13.78	13.33	12.99	12.49
45.0	16.76	16.09	15.58	14.91	14.34	13.95	13.39	12.88	12.49
90.0	16.26	15.58	15.02	14.46	14.01	13.50	12.94	12.54	12.04
135.0	23.34	21.15	18.96	17.21	15.47	14.12	13.11	12.43	11.87
180.0	16.31	15.75	15.13	14.68	13.95	13.56	12.94	12.38	11.93
225.0	18.28	17.66	16.99	16.43	15.86	15.24	14.63	14.06	13.56
270.0	16.48	15.75	14.91	14.34	13.89	13.44	12.99	12.71	12.21
315.0	23.63	21.04	18.68	16.99	15.36	14.34	13.56	12.94	12.54
360.0	16.37	15.75	15.30	14.85	14.23	13.78	13.33	12.99	12.49
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	12.15	11.87	11.48	11.19	10.86	10.46	9.96	9.56	9.06
45.0	11.98	11.53	11.08	10.46	10.01	9.56	8.94	8.55	8.10
90.0	11.48	10.97	10.41	9.90	9.39	8.94	8.49	8.16	7.76
135.0	11.48	11.14	10.86	10.58	10.24	9.90	9.51	9.23	8.78
180.0	11.53	11.14	10.74	10.46	9.96	9.56	9.23	8.83	8.49
225.0	12.94	12.49	12.21	11.76	11.25	10.80	10.24	9.73	9.17
270.0	11.81	11.36	11.03	10.58	10.24	9.79	9.45	9.17	8.83
315.0	12.09	11.81	11.48	11.19	10.80	10.35	9.90	9.45	9.06
360.0	12.15	11.87	11.48	11.19	10.86	10.46	9.96	9.56	9.06
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	8.66	8.44	8.16	7.99	7.82	7.54	7.37	6.58	5.63
45.0	7.71	7.43	7.26	7.03	6.92	6.81	6.02	5.18	4.44
90.0	7.54	7.54	7.54	7.54	7.37	7.20	6.19	5.29	4.50
135.0	8.49	8.16	7.93	7.71	7.43	7.14	6.92	6.08	4.95
180.0	8.16	7.82	7.54	7.26	7.03	6.86	6.53	5.85	4.73
225.0	8.66	8.16	7.76	7.43	7.14	6.98	6.86	6.69	5.91
270.0	8.55	8.33	8.10	7.99	7.88	7.76	7.65	7.48	6.41
315.0	8.89	8.72	8.55	8.49	8.38	8.16	8.04	7.09	5.91
360.0	8.66	8.44	8.16	7.99	7.82	7.54	7.37	6.58	5.63

Intensity data(cd)

C/ γ (°)	90.0
0.0	4.78
45.0	3.43
90.0	3.60
135.0	4.28
180.0	4.16
225.0	5.29
270.0	5.12
315.0	5.57
360.0	4.78