
NATA

LumCAT: 2-1121-A4

Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100

Voltage(V): 35.0000

Test No: GC2019011514

Current(A): 0.5000

LampCAT: CITIZEN CLU720

Power (W): 17.5000

Lamp flux(lm): 1995.0

PF: 0.0000

Number of Lamps: 1

Ballast type: DC

Length(mm): 71

Width(mm): 71

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 1822.61

Efficiency(%): 91.36%

Lumens(lm)/Power(W): 104.24

Central intensity(cd): 7009.031

Maximum intensity(cd): 7009.031

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=24.2

[C90/270]Total=24.2

Field angle(10%Imax): [C0/180]Total=50.8

[C90/270]Total=50.8

Maximum s/h(1/2): C0_180=0.41 C90_270=0.41

Maximum s/h(1/4): C0_180=0.39 C90_270=0.39

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 91.44%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.633%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	7009.031	1.677	1.677	.084%	.092%
1.0	6981.188	13.361	15.038	.670%	.825%
2.0	6905.602	26.428	41.466	1.325%	2.275%
3.0	6780.727	38.916	80.382	1.951%	4.410%
4.0	6624.492	50.674	131.057	2.540%	7.191%
5.0	6425.016	61.408	192.464	3.078%	10.560%
6.0	6160.500	70.616	263.08	3.540%	14.434%
7.0	5850.703	78.191	341.271	3.919%	18.724%
8.0	5497.383	83.900	425.171	4.206%	23.328%
9.0	5058.633	86.780	511.95	4.350%	28.089%
10.0	4580.438	87.223	599.173	4.372%	32.875%
11.0	4084.453	85.464	684.637	4.284%	37.564%
12.0	3553.945	81.029	765.666	4.062%	42.009%
13.0	3020.484	74.510	840.177	3.735%	46.098%
14.0	2533.781	67.220	907.396	3.369%	49.786%
15.0	2109.445	59.871	967.267	3.001%	53.071%
16.0	1726.580	52.189	1019.456	2.616%	55.934%
17.0	1427.456	45.767	1065.223	2.294%	58.445%
18.0	1235.517	41.868	1107.091	2.099%	60.742%
19.0	1067.344	38.106	1145.197	1.910%	62.833%
20.0	958.120	35.935	1181.133	1.801%	64.805%
21.0	871.657	34.255	1215.388	1.717%	66.684%
22.0	813.691	33.426	1248.814	1.675%	68.518%
23.0	768.684	32.937	1281.751	1.651%	70.325%
24.0	734.927	32.780	1314.531	1.643%	72.124%
25.0	707.963	32.810	1347.341	1.645%	73.924%
26.0	689.154	33.129	1380.47	1.661%	75.742%
27.0	671.977	33.454	1413.924	1.677%	77.577%
28.0	657.717	33.861	1447.785	1.697%	79.435%
29.0	644.259	34.252	1482.037	1.717%	81.314%
30.0	633.108	34.714	1516.751	1.740%	83.219%
31.0	622.076	35.135	1551.885	1.761%	85.147%
32.0	605.777	35.203	1587.088	1.765%	87.078%
33.0	584.198	34.892	1621.98	1.749%	88.992%
34.0	547.699	33.586	1655.565	1.683%	90.835%
35.0	493.650	31.050	1686.615	1.556%	92.539%
36.0	420.209	27.085	1713.701	1.358%	94.025%
37.0	343.069	22.641	1736.342	1.135%	95.267%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	252.949	17.078	1753.419	.856%	96.204%
39.0	188.381	13.001	1766.42	.652%	96.917%
40.0	115.706	8.156	1774.576	.409%	97.365%
41.0	64.132	4.614	1779.19	.231%	97.618%
42.0	35.473	2.603	1781.793	.130%	97.761%
43.0	24.173	1.808	1783.601	.091%	97.860%
44.0	20.236	1.542	1785.142	.077%	97.945%
45.0	17.416	1.351	1786.493	.068%	98.019%
46.0	14.857	1.172	1787.665	.059%	98.083%
47.0	12.741	1.022	1788.686	.051%	98.139%
48.0	11.412	0.930	1789.616	.047%	98.190%
49.0	10.392	0.860	1790.476	.043%	98.237%
50.0	9.809	0.824	1791.3	.041%	98.282%
51.0	9.534	0.813	1792.113	.041%	98.327%
52.0	9.323	0.806	1792.919	.040%	98.371%
53.0	9.155	0.802	1793.72	.040%	98.415%
54.0	9.014	0.800	1794.52	.040%	98.459%
55.0	8.873	0.797	1795.317	.040%	98.503%
56.0	8.740	0.795	1796.112	.040%	98.546%
57.0	8.613	0.792	1796.904	.040%	98.590%
58.0	8.501	0.791	1797.695	.040%	98.633%
59.0	8.416	0.791	1798.486	.040%	98.677%
60.0	8.318	0.790	1799.276	.040%	98.720%
61.0	8.241	0.790	1800.066	.040%	98.763%
62.0	8.156	0.790	1800.856	.040%	98.807%
63.0	8.093	0.791	1801.646	.040%	98.850%
64.0	8.016	0.790	1802.436	.040%	98.893%
65.0	7.938	0.789	1803.225	.040%	98.937%
66.0	7.875	0.789	1804.014	.040%	98.980%
67.0	7.833	0.791	1804.805	.040%	99.023%
68.0	7.770	0.790	1805.595	.040%	99.067%
69.0	7.713	0.790	1806.385	.040%	99.110%
70.0	7.678	0.791	1807.176	.040%	99.153%
71.0	7.615	0.790	1807.965	.040%	99.197%
72.0	7.580	0.791	1808.756	.040%	99.240%
73.0	7.538	0.790	1809.546	.040%	99.283%
74.0	7.502	0.791	1810.337	.040%	99.327%
75.0	7.460	0.790	1811.127	.040%	99.370%

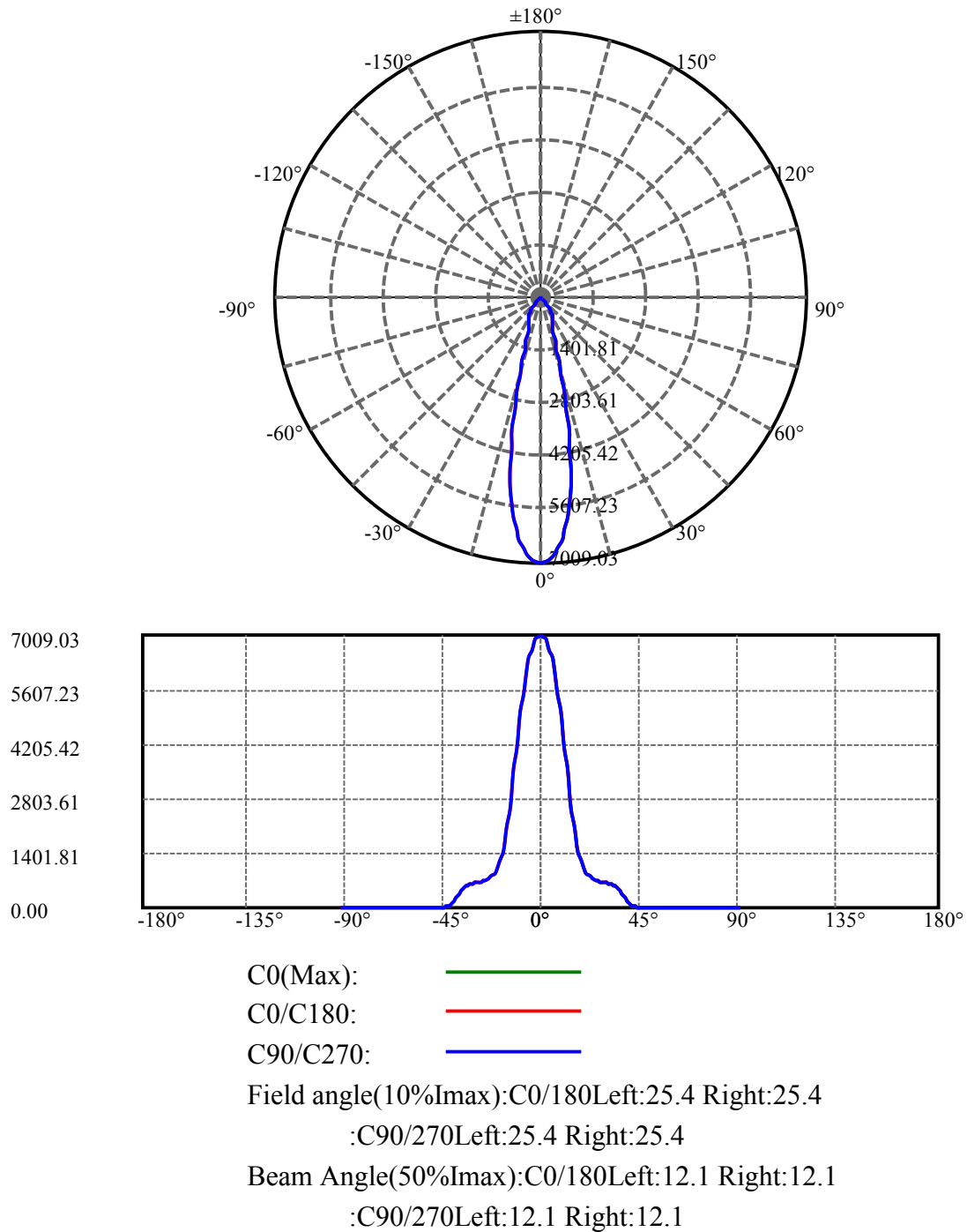
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.446	0.792	1811.92	.040%	99.414%
77.0	7.418	0.793	1812.712	.040%	99.457%
78.0	7.383	0.792	1813.504	.040%	99.501%
79.0	7.355	0.792	1814.296	.040%	99.544%
80.0	7.348	0.794	1815.089	.040%	99.588%
81.0	7.313	0.792	1815.881	.040%	99.631%
82.0	7.305	0.793	1816.675	.040%	99.675%
83.0	7.277	0.792	1817.467	.040%	99.718%
84.0	7.270	0.793	1818.26	.040%	99.762%
85.0	7.249	0.792	1819.052	.040%	99.805%
86.0	7.242	0.792	1819.844	.040%	99.848%
87.0	7.207	0.789	1820.633	.040%	99.892%
88.0	7.200	0.789	1821.422	.040%	99.935%
89.0	7.200	0.789	1822.212	.040%	99.978%
90.0	7.186	0.394	1822.606	.020%	100.000%

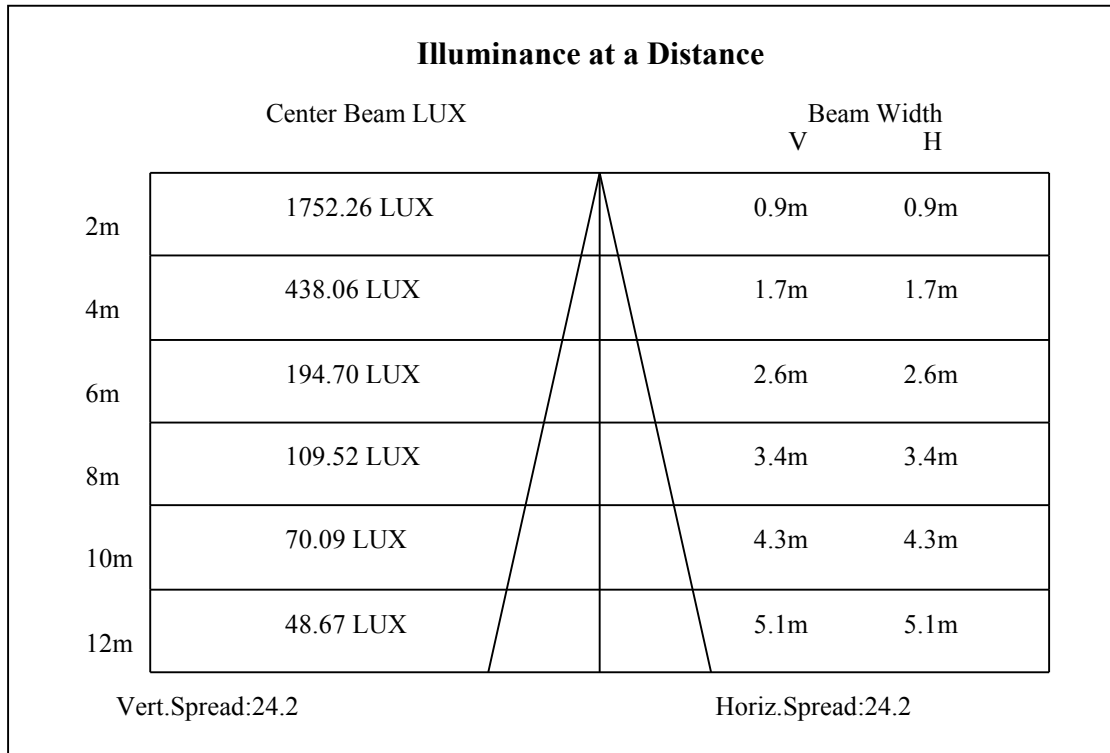
ZONAL LUMEN SUMMARY

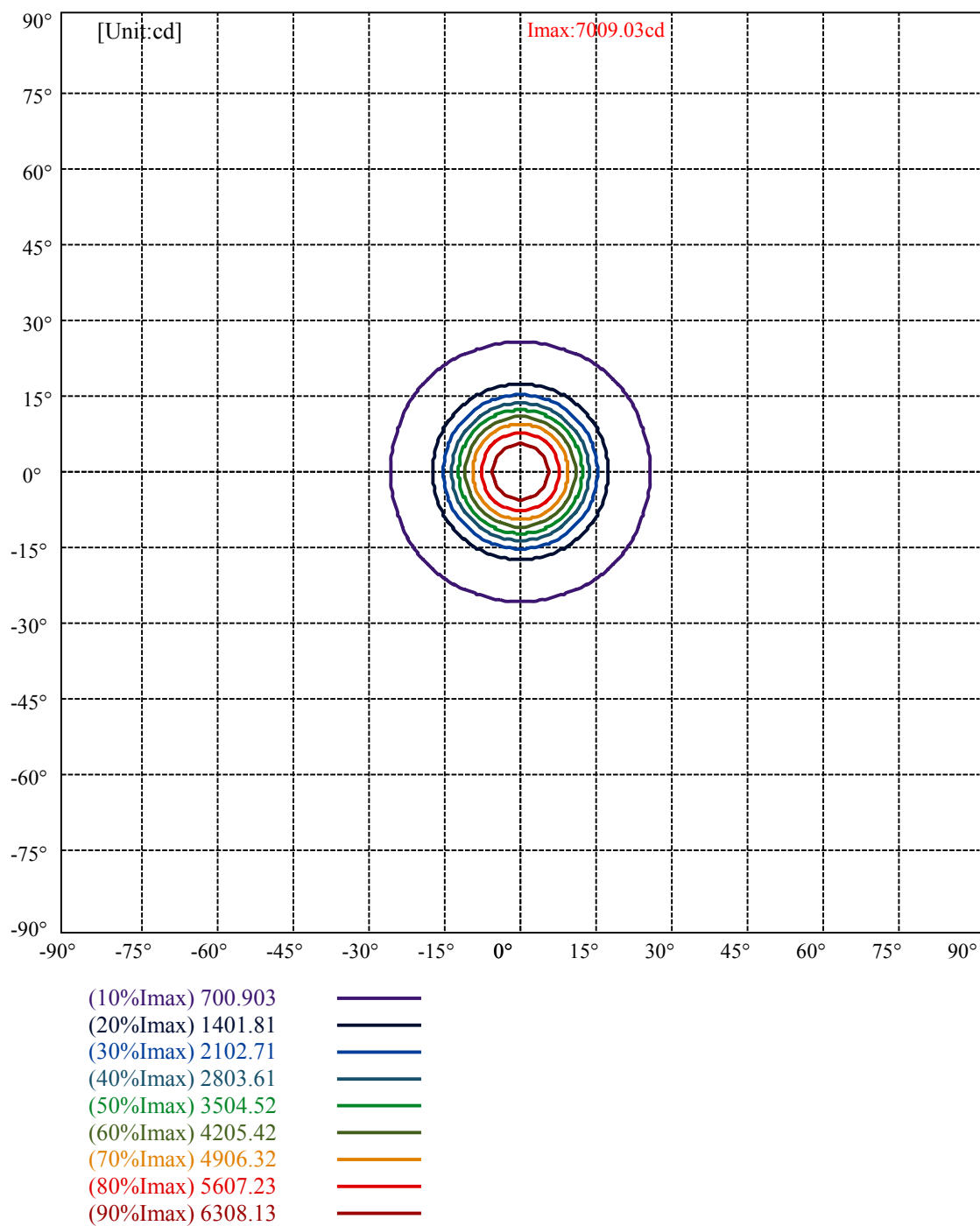
Zone	Lumens	%Lamp	%Fixt
0-30	1516.75	76.03%	83.22%
0-40	1774.58	88.95%	97.36%
0-60	1799.28	90.19%	98.72%
0-90	1822.21	91.34%	99.98%
0-120	1822.21	91.34%	99.98%
0-180	1822.61	91.36%	100.00%
60-90	23.73	1.19%	1.30%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.30	1458.09	73.09%	80.00%

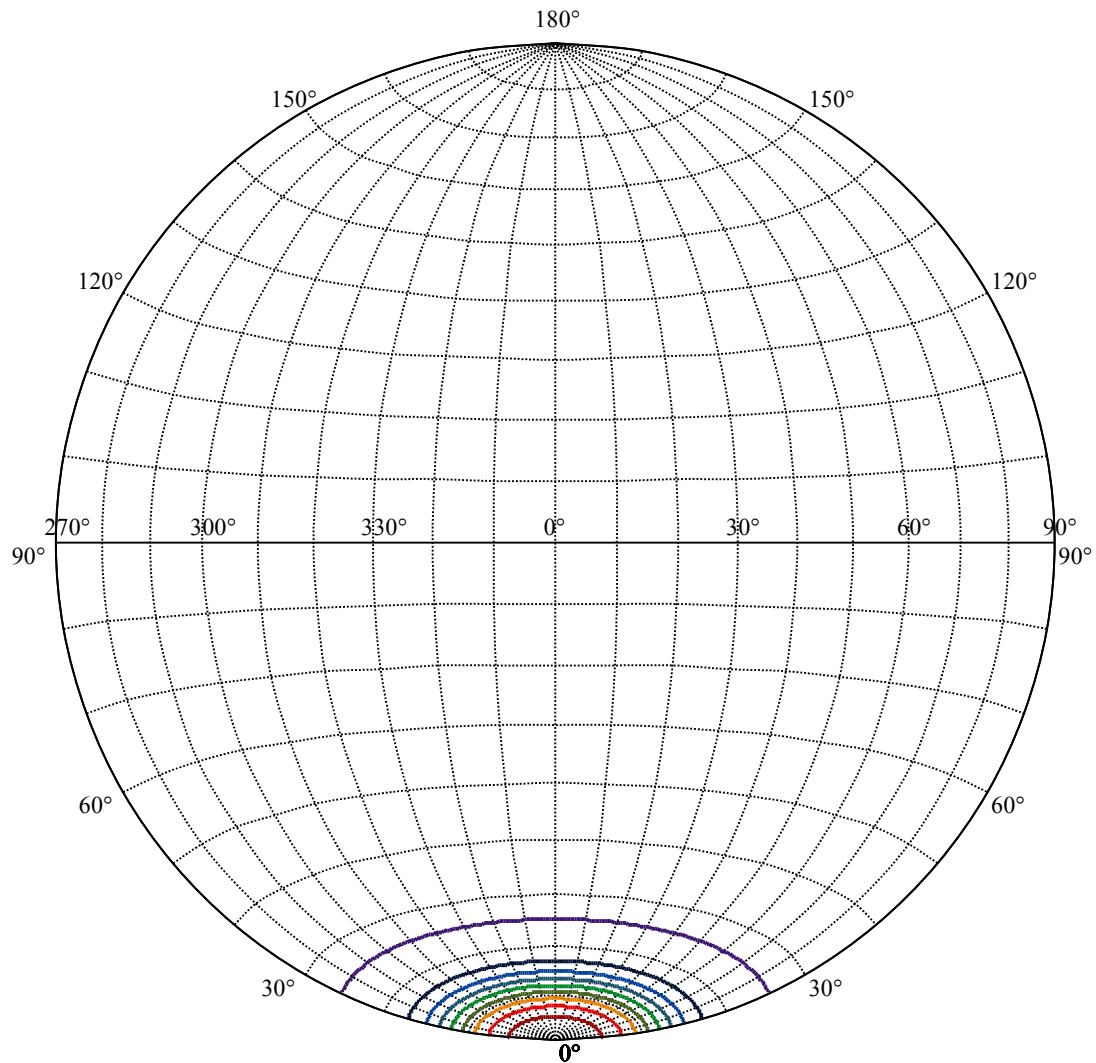
ZONAL LUMEN SUMMARY

0-10	599.17
10-20	581.96
20-30	335.62
30-40	257.83
40-50	16.72
50-60	7.98
60-70	7.90
70-80	7.91
80-90	7.12
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









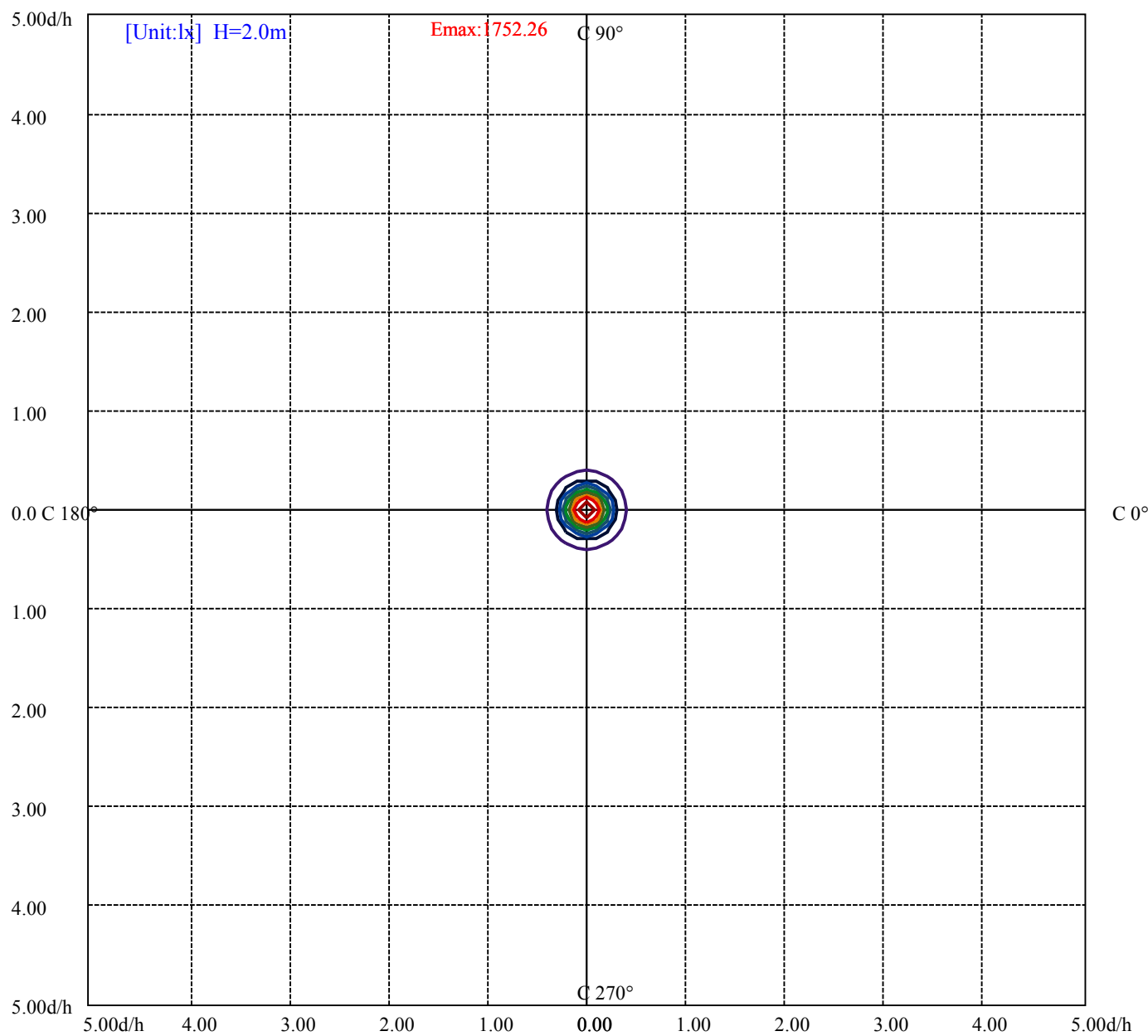
House

[Unit:cd]

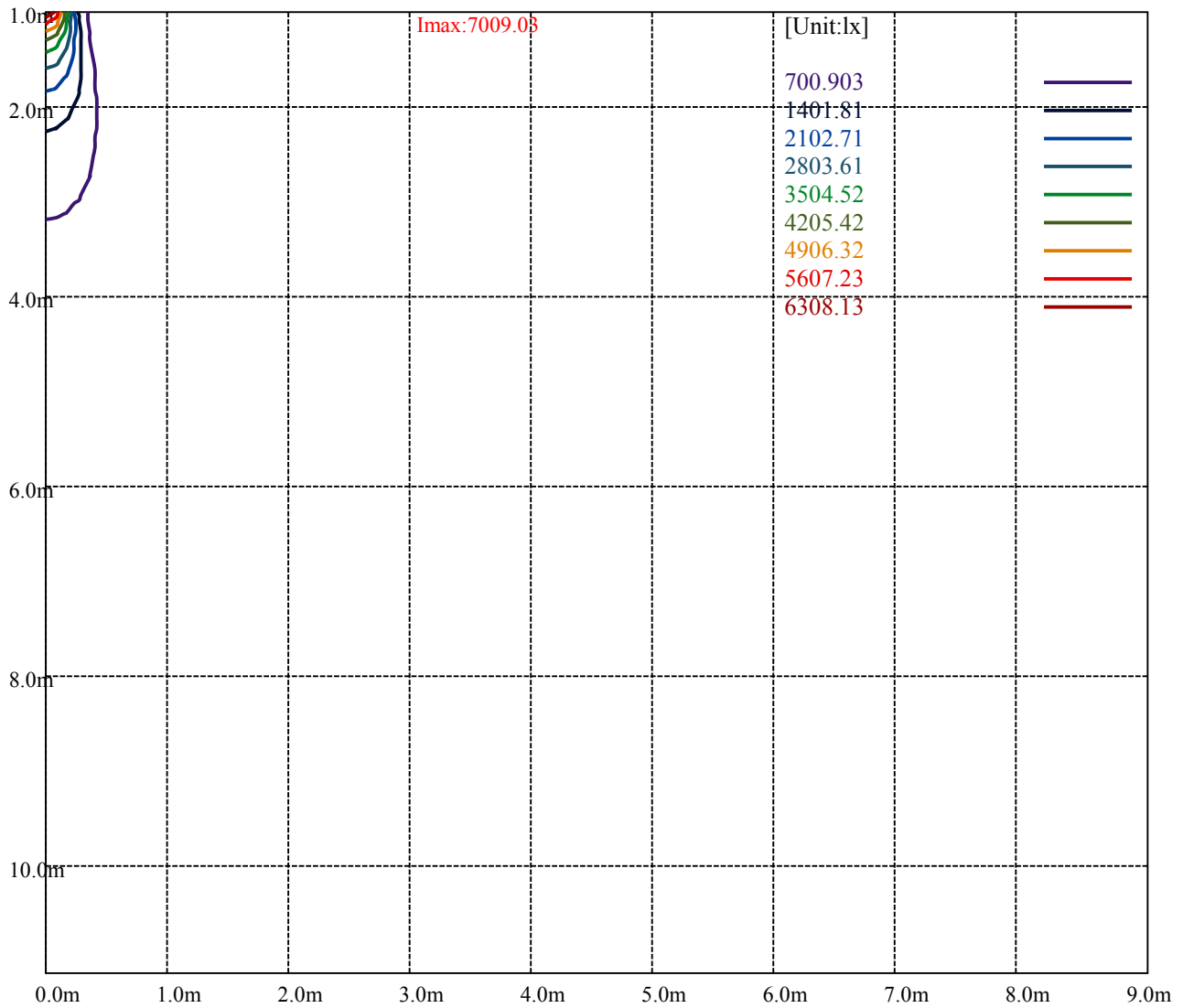
Road

Imax:7009.03

(10%Imax)	700.903	—
(20%Imax)	1401.81	—
(30%Imax)	2102.71	—
(40%Imax)	2803.61	—
(50%Imax)	3504.52	—
(60%Imax)	4205.42	—
(70%Imax)	4906.32	—
(80%Imax)	5607.23	—
(90%Imax)	6308.13	—



(10%E _{max}) 175.2258	—
(20%E _{max}) 350.4525	—
(30%E _{max}) 525.6775	—
(40%E _{max}) 700.9025	—
(50%E _{max}) 876.1275	—
(60%E _{max}) 1051.355	—
(70%E _{max}) 1226.58	—
(80%E _{max}) 1401.805	—
(90%E _{max}) 1577.03	—



Luminance Table

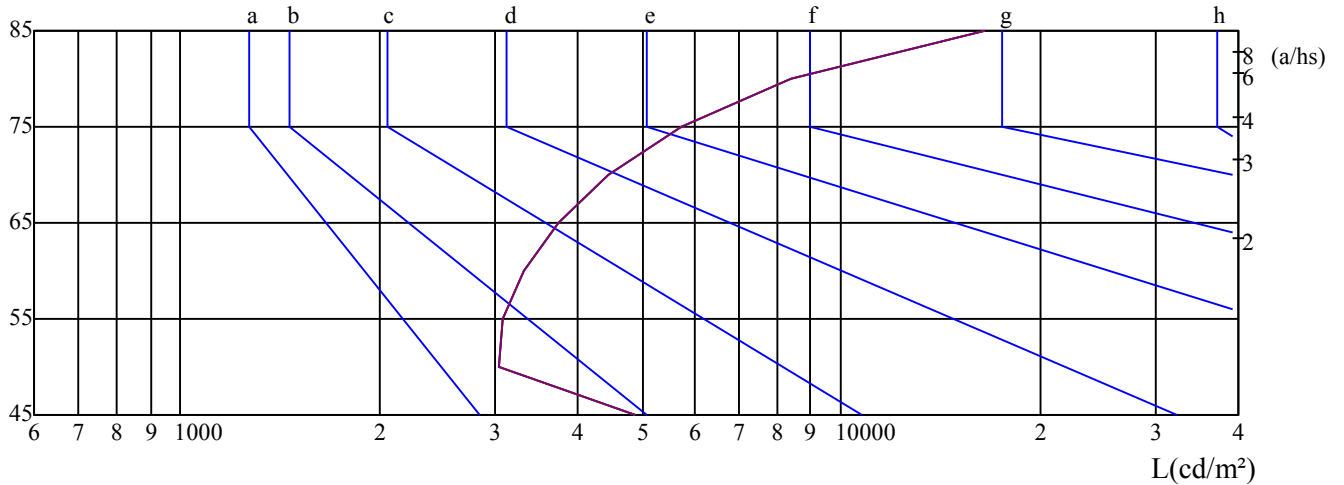
γ	45	50	55	60	65	70	75	80	85
C0	4886	3027	3069	3300	3726	4453	5718	8394	16500
C45	4886	3027	3069	3300	3726	4453	5718	8394	16500
C90	4886	3027	3069	3300	3726	4453	5718	8394	16500

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3726	3726	3726	5718	5718	5718	16500	16500	16500

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

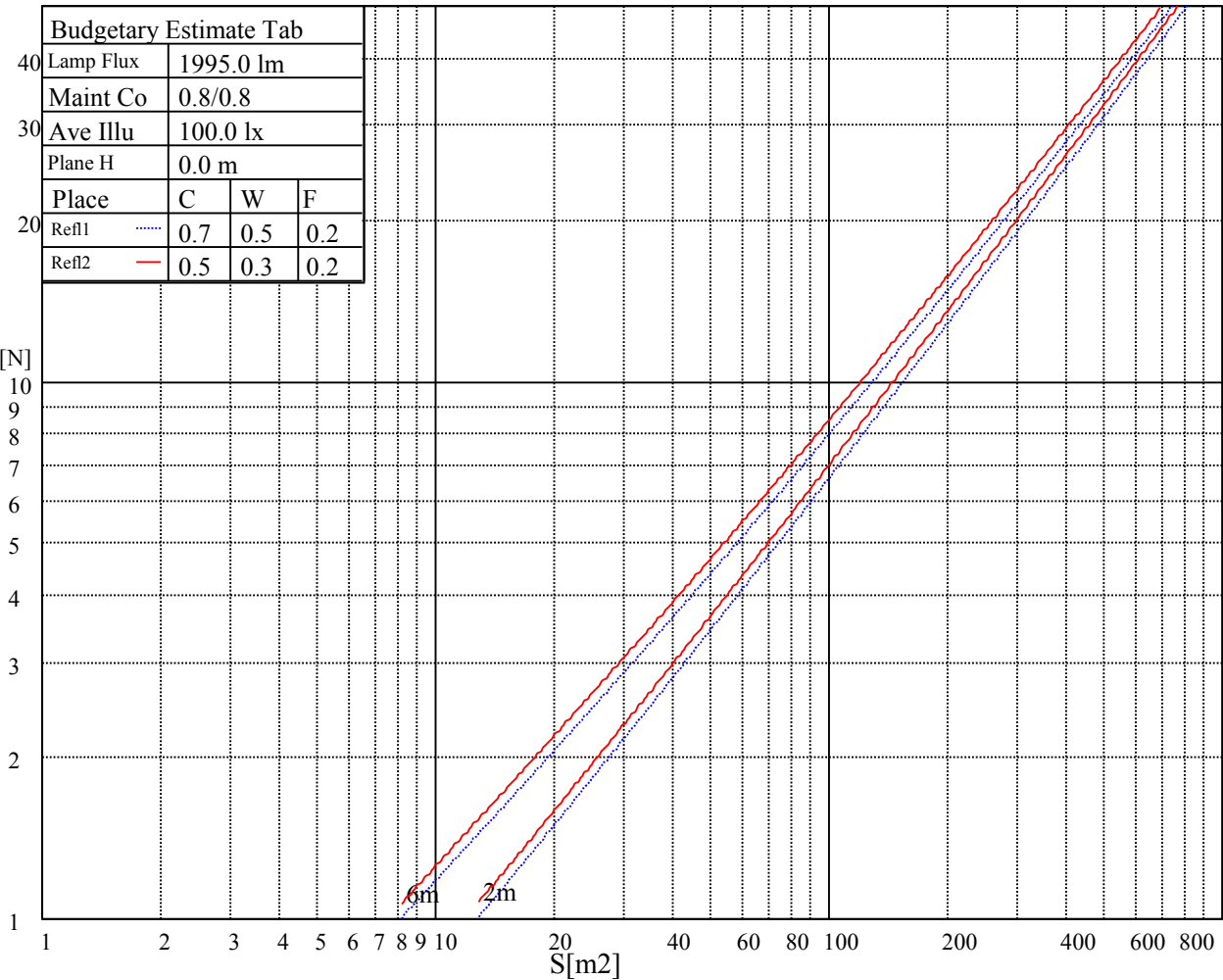
 $\gamma(^{\circ})$ 

C0 ———

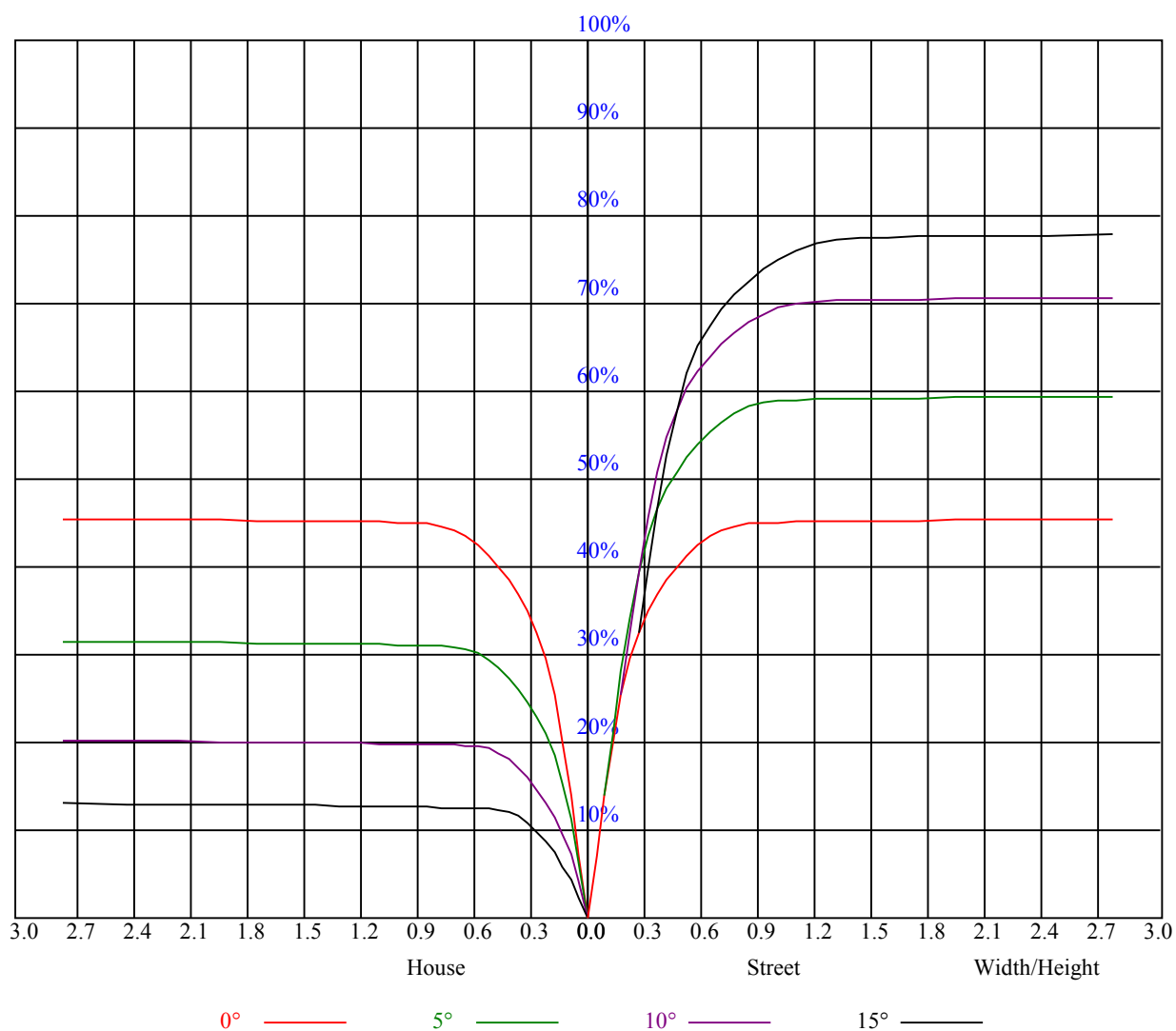
C45 ———

C90 ———

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	2.65	3.56	3.01	3.87	4.19	2.72	3.63	3.08	3.94	4.26
	3H	5.72	6.52	6.10	6.86	7.23	5.79	6.60	6.18	6.93	7.30
	4H	7.39	8.14	7.80	8.49	8.88	7.46	8.21	7.87	8.56	8.95
	6H	9.28	9.96	9.70	10.34	10.74	9.36	10.04	9.78	10.42	10.82
	8H	10.34	10.98	10.78	11.37	11.78	10.42	11.06	10.86	11.45	11.86
	12H	12.07	12.68	12.51	13.07	13.50	12.15	12.76	12.58	13.14	13.57
4H	2H	3.51	4.25	3.92	4.61	5.00	3.56	4.31	3.97	4.66	5.05
	3H	6.84	7.45	7.25	7.86	8.27	6.90	7.51	7.31	7.92	8.32
	4H	8.69	9.23	9.12	9.66	10.11	8.74	9.29	9.18	9.71	10.16
	6H	10.74	11.20	11.21	11.65	12.13	10.81	11.28	11.28	11.73	12.20
	8H	11.90	12.33	12.38	12.78	13.26	11.97	12.41	12.45	12.86	13.34
	12H	13.54	13.91	14.03	14.40	14.88	13.61	13.98	14.10	14.47	14.95
8H	4H	9.40	9.83	9.87	10.28	10.76	9.44	9.87	9.92	10.33	10.80
	6H	11.72	12.07	12.24	12.57	13.06	11.79	12.13	12.30	12.64	13.12
	8H	13.08	13.38	13.61	13.90	14.40	13.15	13.45	13.68	13.97	14.47
	12H	14.86	15.12	15.39	15.62	16.20	14.92	15.18	15.45	15.68	16.26
12H	4H	9.60	9.97	10.09	10.46	10.94	9.63	10.01	10.13	10.50	10.98
	6H	12.24	12.34	12.58	12.82	13.37	12.30	12.40	12.64	12.87	13.42
	8H	13.52	13.78	14.05	14.28	14.87	13.59	13.84	14.11	14.34	14.93
Variation with the observer position at spacings:											
S = 1.0H		5.3/-8.1					5.3/-8.1				
S = 1.5H		7.6/-6.1					7.6/-6.1				
S = 2.0H		9.1/-4.7					9.1/-4.7				
Standard tables:		BK2					BK2				
Uncorrected UGR		0.8					0.8				



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	0.98	1.00	0.99	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.89	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	0.84	0.83
3	0.92	0.88	0.85	0.91	0.87	0.84	0.88	0.85	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.79
4	0.88	0.83	0.80	0.87	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	0.79	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.79	0.76	0.74	0.73
6	0.80	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.70
7	0.77	0.73	0.70	0.77	0.72	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.69	0.68
8	0.74	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.65
9	0.72	0.67	0.65	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.63
10	0.69	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	0.62	0.61



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	6981.75	7040.81	7051.50	7014.38	6932.81	6800.63	6645.38	6487.88	6264.56
45.0	7023.38	7022.25	6963.75	6857.44	6735.38	6569.44	6353.44	6104.81	5801.63
90.0	7009.31	6924.94	6803.44	6645.94	6456.94	6245.44	5964.19	5533.31	5132.81
135.0	7021.69	6941.25	6823.69	6653.25	6473.25	6219.56	5888.81	5543.44	5205.38
180.0	6981.75	6886.69	6734.81	6546.38	6336.56	6035.06	5654.81	5257.69	4750.31
225.0	7023.38	6968.81	6872.63	6721.88	6526.69	6305.06	5988.38	5610.94	5213.25
270.0	7009.31	7023.38	6982.88	6880.50	6754.50	6573.38	6337.69	6067.13	5691.94
315.0	7021.69	7041.38	7012.13	6926.06	6779.81	6651.56	6451.31	6200.44	5919.19
360.0	6981.75	7040.81	7051.50	7014.38	6932.81	6800.63	6645.38	6487.88	6264.56
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	5973.75	5663.81	5254.88	4779.56	4305.38	3743.44	3241.13	2694.38	2210.63
45.0	5352.19	4933.13	4460.63	3890.81	3312.56	2817.56	2310.19	1882.13	1576.69
90.0	4679.44	4137.19	3580.31	3086.44	2557.69	2090.81	1743.19	1429.31	1109.59
135.0	4608.00	4129.31	3692.81	3067.88	2537.44	2167.88	1725.19	1449.56	1195.31
180.0	4259.81	3695.06	3131.44	2649.94	2207.81	1749.38	1472.06	1118.14	1067.91
225.0	4765.50	4148.44	3631.50	3115.69	2568.38	2091.94	1742.06	1429.88	1107.28
270.0	5248.13	4797.56	4301.44	3719.81	3135.94	2640.38	2145.38	1780.88	1461.38
315.0	5582.25	5139.00	4622.63	4121.44	3538.69	2968.88	2496.38	2028.38	1690.88
360.0	5973.75	5663.81	5254.88	4779.56	4305.38	3743.44	3241.13	2694.38	2210.63
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1855.69	1533.94	1278.56	1103.06	974.81	874.69	804.38	759.94	725.06
45.0	1298.81	1118.25	982.13	883.13	817.88	772.31	734.06	705.94	686.81
90.0	1040.51	921.38	846.17	788.40	748.91	722.36	700.37	678.26	664.20
135.0	1045.13	942.19	866.25	797.63	759.94	732.38	705.38	687.94	674.44
180.0	960.24	881.94	817.43	770.46	739.07	709.09	692.61	676.24	659.53
225.0	1060.82	951.81	881.89	823.78	781.14	751.61	728.16	705.04	690.19
270.0	1224.56	1073.81	957.94	879.19	828.00	784.69	750.94	726.75	706.50
315.0	1398.38	1115.44	1034.61	927.62	859.78	802.35	763.54	723.60	706.50
360.0	1855.69	1533.94	1278.56	1103.06	974.81	874.69	804.38	759.94	725.06
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	698.63	681.19	667.13	652.50	642.38	631.69	622.13	611.44	595.69
45.0	671.63	656.44	642.94	631.69	618.75	608.63	599.63	583.88	539.44
90.0	652.50	636.24	625.44	615.77	605.76	596.25	580.16	530.61	464.57
135.0	657.56	645.19	633.94	622.13	611.44	595.69	559.69	494.44	414.56
180.0	649.69	638.78	624.09	615.15	601.82	548.44	491.91	421.14	343.29
225.0	677.25	662.51	650.53	640.24	629.10	617.79	593.33	536.96	458.78
270.0	685.69	672.19	658.69	646.88	636.19	627.19	616.50	603.00	569.25
315.0	682.88	669.21	651.32	640.52	631.18	620.55	610.26	600.13	563.63
360.0	698.63	681.19	667.13	652.50	642.38	631.69	622.13	611.44	595.69
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	555.75	478.69	392.06	308.25	288.00	148.95	69.64	36.00	25.48
45.0	476.44	393.19	299.81	289.69	135.96	73.86	32.79	21.94	19.35
90.0	381.71	282.77	214.59	141.30	56.25	30.49	21.99	19.24	15.69
135.0	332.44	291.38	168.30	86.96	44.04	25.54	21.88	18.96	15.92
180.0	243.23	168.13	98.33	40.84	27.06	24.58	21.77	18.06	15.08
225.0	377.83	282.26	190.46	118.58	59.63	32.51	26.72	23.68	20.70
270.0	496.69	422.44	328.50	286.31	153.90	87.19	41.18	27.23	24.69
315.0	497.59	425.70	331.54	235.13	160.82	89.94	47.81	28.29	24.98
360.0	555.75	478.69	392.06	308.25	288.00	148.95	69.64	36.00	25.48

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	22.50	19.58	16.14	13.67	12.54	10.91	10.18	9.90	9.68
45.0	16.48	12.99	11.42	10.80	9.96	9.68	9.45	9.28	9.11
90.0	12.83	11.42	10.63	9.73	9.45	9.17	9.06	8.89	8.78
135.0	12.99	11.76	10.86	9.90	9.68	9.51	9.23	9.06	8.94
180.0	13.28	11.70	10.07	9.84	9.62	9.45	9.28	9.11	9.00
225.0	17.33	14.85	12.54	10.18	9.90	9.62	9.45	9.23	9.06
270.0	21.77	18.11	15.58	14.01	10.58	10.01	9.79	9.51	9.28
315.0	22.16	18.45	14.68	13.16	11.42	10.13	9.84	9.62	9.39
360.0	22.50	19.58	16.14	13.67	12.54	10.91	10.18	9.90	9.68
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	9.45	9.28	9.11	8.94	8.83	8.72	8.55	8.49	8.38
45.0	8.94	8.83	8.72	8.61	8.44	8.38	8.27	8.21	8.16
90.0	8.66	8.55	8.44	8.33	8.21	8.16	8.10	7.99	7.93
135.0	8.78	8.66	8.55	8.44	8.33	8.21	8.16	8.10	8.04
180.0	8.83	8.72	8.61	8.44	8.38	8.33	8.21	8.16	8.04
225.0	9.00	8.83	8.66	8.55	8.44	8.38	8.33	8.21	8.10
270.0	9.17	9.00	8.89	8.78	8.66	8.61	8.49	8.38	8.27
315.0	9.28	9.11	8.94	8.83	8.72	8.55	8.44	8.38	8.33
360.0	9.45	9.28	9.11	8.94	8.83	8.72	8.55	8.49	8.38
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.27	8.21	8.16	8.04	7.99	7.93	7.88	7.82	7.76
45.0	8.10	7.99	7.93	7.82	7.82	7.76	7.65	7.65	7.59
90.0	7.88	7.82	7.76	7.76	7.71	7.65	7.59	7.54	7.48
135.0	7.99	7.88	7.82	7.76	7.76	7.65	7.65	7.65	7.54
180.0	8.04	7.99	7.88	7.82	7.76	7.71	7.71	7.65	7.59
225.0	8.04	7.99	7.88	7.88	7.82	7.71	7.71	7.65	7.59
270.0	8.21	8.10	8.04	7.93	7.88	7.88	7.76	7.71	7.65
315.0	8.21	8.16	8.04	7.99	7.93	7.88	7.76	7.76	7.71
360.0	8.27	8.21	8.16	8.04	7.99	7.93	7.88	7.82	7.76
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	7.71	7.65	7.59	7.54	7.54	7.48	7.48	7.43	7.43
45.0	7.54	7.54	7.48	7.48	7.48	7.43	7.37	7.37	7.37
90.0	7.48	7.43	7.43	7.37	7.31	7.37	7.31	7.31	7.26
135.0	7.54	7.48	7.48	7.43	7.43	7.43	7.37	7.37	7.37
180.0	7.59	7.54	7.48	7.48	7.48	7.37	7.37	7.37	7.37
225.0	7.54	7.54	7.48	7.43	7.43	7.43	7.37	7.31	7.31
270.0	7.59	7.54	7.54	7.43	7.43	7.43	7.37	7.31	7.31
315.0	7.65	7.59	7.54	7.54	7.48	7.43	7.43	7.37	7.37
360.0	7.71	7.65	7.59	7.54	7.54	7.48	7.48	7.43	7.43
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.43	7.43	7.37	7.31	7.31	7.31	7.26	7.31	7.26
45.0	7.37	7.31	7.31	7.31	7.26	7.26	7.20	7.20	7.20
90.0	7.26	7.26	7.20	7.20	7.20	7.14	7.14	7.14	7.14
135.0	7.31	7.31	7.26	7.26	7.20	7.20	7.20	7.20	7.20
180.0	7.31	7.31	7.31	7.26	7.26	7.26	7.20	7.20	7.26
225.0	7.26	7.26	7.26	7.26	7.26	7.31	7.20	7.20	7.20
270.0	7.26	7.26	7.26	7.26	7.26	7.20	7.20	7.14	7.14
315.0	7.31	7.31	7.26	7.31	7.26	7.26	7.26	7.20	7.20
360.0	7.43	7.43	7.37	7.31	7.31	7.31	7.26	7.31	7.26

Intensity data(cd)

Appendix Page: 19 Total:19

C/ $\gamma(^{\circ})$	90.0
0.0	7.26
45.0	7.14
90.0	7.14
135.0	7.20
180.0	7.20
225.0	7.20
270.0	7.14
315.0	7.20
360.0	7.26