



NATA LIGHTING CO.,LTD
www.nata.cn
Email:info@nata.cn
Tel:+86 0750-377 0000(10 lines) Fax:+86 0750-377 1111
Address:380JinOu Road,Gaoxin Zone,Jiang Men City,Guangdong,China

Nata

Client: NT

LumCAT: 2-2735-LM4

Luminaire: 92.70.121.00 LED HOLDER

Report No: 20251107-B022

Ballast type: DC

Test No: 20251107-C022

Voltage(V): 36.530

LampCAT: CITIZEN CLU038 LES14.5

Current(A): 0.714

Lamp flux(lm): 3661.5

Power (W): 26.080

Number of Lamps: 1

PF: 0.000

Length(mm): 75

Width(mm): 75

Phm Type: C

Height(mm): 43

Photometric Results

Lumens(lm): 3489.68, Efficiency(%): 95.31% , Luminous Efficacy(lm/W): 133.81

Central intensity(cd): 3940.864, Maximum intensity(cd): 3940.864

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=60.0

[C90/270]Total=60.0

Field angle(10%Imax): [C0/180]Total=81.2

[C90/270]Total=81.2

Maximum s/h(1/2): C0_180=0.96 C90_270=0.96

Maximum s/h(1/4): C0_180=0.88 C90_270=0.88

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 95.31%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.879%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	3940.864	0.000	0	0.00%	0.00%
1.0	3934.298	3.768	3.768	0.10%	0.11%
2.0	3925.470	11.281	15.049	0.31%	0.43%
3.0	3906.632	18.732	33.781	0.51%	0.97%
4.0	3884.564	26.080	59.861	0.71%	1.72%
5.0	3856.791	33.303	93.164	0.91%	2.67%
6.0	3825.250	40.371	133.535	1.10%	3.83%
7.0	3793.171	47.287	180.822	1.29%	5.18%
8.0	3760.554	54.061	234.883	1.48%	6.73%
9.0	3725.568	60.671	295.554	1.66%	8.47%
10.0	3687.461	67.085	362.639	1.83%	10.39%
11.0	3650.107	73.317	435.956	2.00%	12.49%
12.0	3610.277	79.366	515.323	2.17%	14.77%
13.0	3570.447	85.217	600.54	2.33%	17.21%
14.0	3526.635	90.842	691.382	2.48%	19.81%
15.0	3479.269	96.180	787.562	2.63%	22.57%
16.0	3426.307	101.186	888.748	2.76%	25.47%
17.0	3378.511	105.969	994.717	2.89%	28.50%
18.0	3323.503	110.502	1105.219	3.02%	31.67%
19.0	3262.036	114.575	1219.794	3.13%	34.95%
20.0	3195.617	118.193	1337.987	3.23%	38.34%
21.0	3126.399	121.396	1459.382	3.32%	41.82%
22.0	3051.907	124.156	1583.538	3.39%	45.38%
23.0	2958.899	126.123	1709.661	3.44%	48.99%
24.0	2856.849	127.153	1836.814	3.47%	52.64%
25.0	2745.002	127.374	1964.188	3.48%	56.29%
26.0	2624.544	126.749	2090.936	3.46%	59.92%
27.0	2474.160	124.741	2215.677	3.41%	63.49%
28.0	2249.230	119.586	2335.264	3.27%	66.92%
29.0	2125.111	114.445	2449.709	3.13%	70.20%
30.0	1972.262	110.628	2560.337	3.02%	73.37%
31.0	1722.196	102.811	2663.148	2.81%	76.31%
32.0	1588.734	94.854	2758.003	2.59%	79.03%
33.0	1427.972	88.873	2846.876	2.43%	81.58%
34.0	1258.297	81.294	2928.17	2.22%	83.91%
35.0	1077.944	72.555	3000.725	1.98%	85.99%
36.0	924.072	63.745	3064.47	1.74%	87.82%
37.0	769.027	55.219	3119.689	1.51%	89.40%

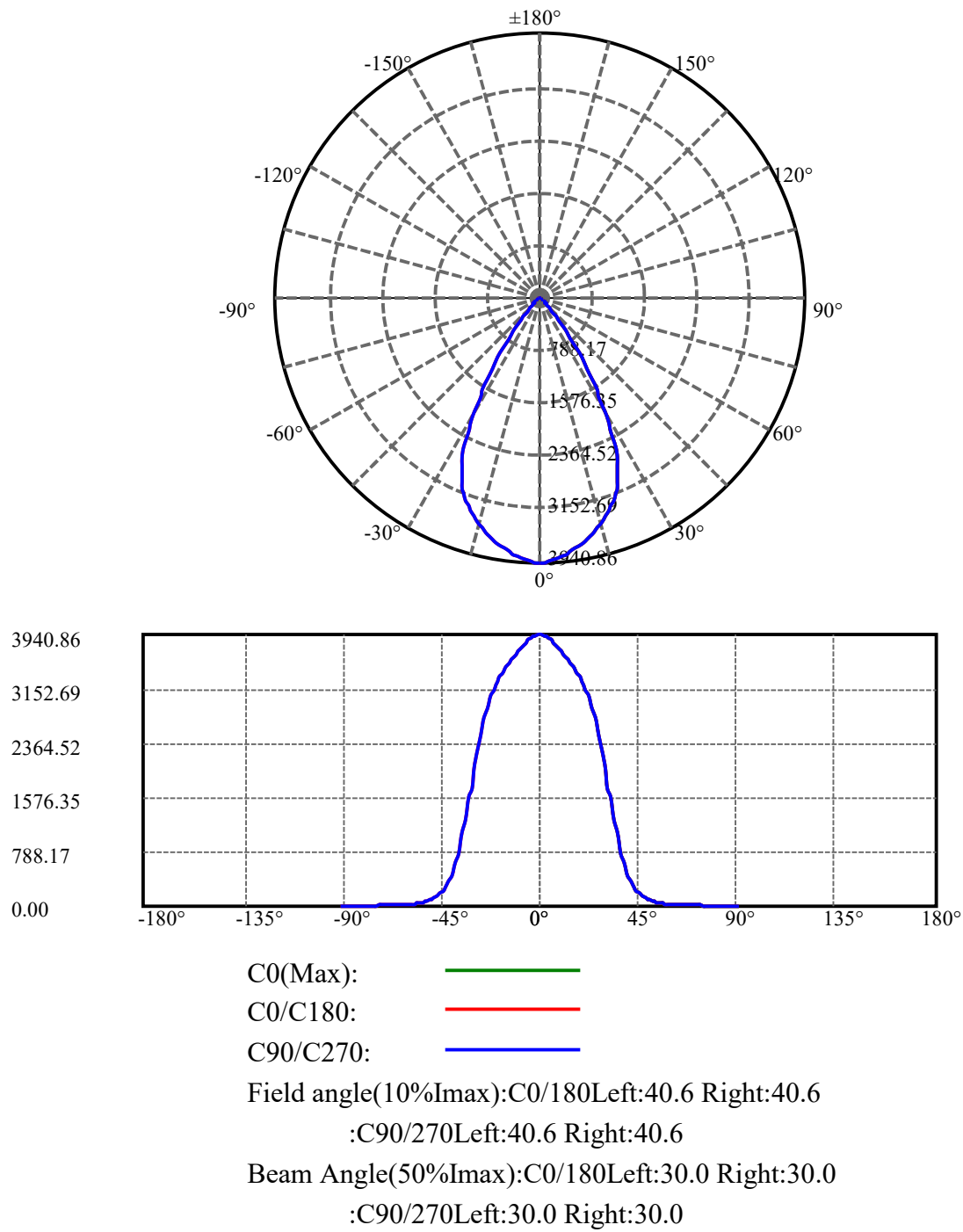
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	646.598	47.252	3166.941	1.29%	90.75%
39.0	542.611	40.591	3207.532	1.11%	91.91%
40.0	437.944	34.198	3241.73	0.93%	92.89%
41.0	369.469	28.752	3270.482	0.79%	93.72%
42.0	325.904	25.264	3295.746	0.69%	94.44%
43.0	274.416	22.238	3317.983	0.61%	95.08%
44.0	222.595	18.759	3336.742	0.51%	95.62%
45.0	190.257	15.866	3352.608	0.43%	96.07%
46.0	163.367	13.829	3366.438	0.38%	96.47%
47.0	140.276	12.077	3378.515	0.33%	96.81%
48.0	120.232	10.531	3389.046	0.29%	97.12%
49.0	103.504	9.188	3398.233	0.25%	97.38%
50.0	89.843	8.061	3406.295	0.22%	97.61%
51.0	77.905	7.097	3413.392	0.19%	97.81%
52.0	67.506	6.240	3419.632	0.17%	97.99%
53.0	58.894	5.498	3425.13	0.15%	98.15%
54.0	51.972	4.887	3430.017	0.13%	98.29%
55.0	45.987	4.373	3434.389	0.12%	98.42%
56.0	40.529	3.909	3438.299	0.11%	98.53%
57.0	36.288	3.512	3441.811	0.10%	98.63%
58.0	32.585	3.185	3444.996	0.09%	98.72%
59.0	29.496	2.902	3447.898	0.08%	98.80%
60.0	26.772	2.658	3450.557	0.07%	98.88%
61.0	24.382	2.441	3452.998	0.07%	98.95%
62.0	22.326	2.251	3455.248	0.06%	99.01%
63.0	20.830	2.099	3457.347	0.06%	99.07%
64.0	19.409	1.975	3459.322	0.05%	99.13%
65.0	18.214	1.862	3461.184	0.05%	99.18%
66.0	17.245	1.769	3462.953	0.05%	99.23%
67.0	16.427	1.693	3464.646	0.05%	99.28%
68.0	15.620	1.623	3466.269	0.04%	99.33%
69.0	14.898	1.557	3467.826	0.04%	99.37%
70.0	14.145	1.492	3469.318	0.04%	99.42%
71.0	13.488	1.428	3470.746	0.04%	99.46%
72.0	12.842	1.369	3472.115	0.04%	99.50%
73.0	12.272	1.313	3473.429	0.04%	99.53%
74.0	11.820	1.267	3474.695	0.03%	99.57%
75.0	11.400	1.227	3475.922	0.03%	99.61%

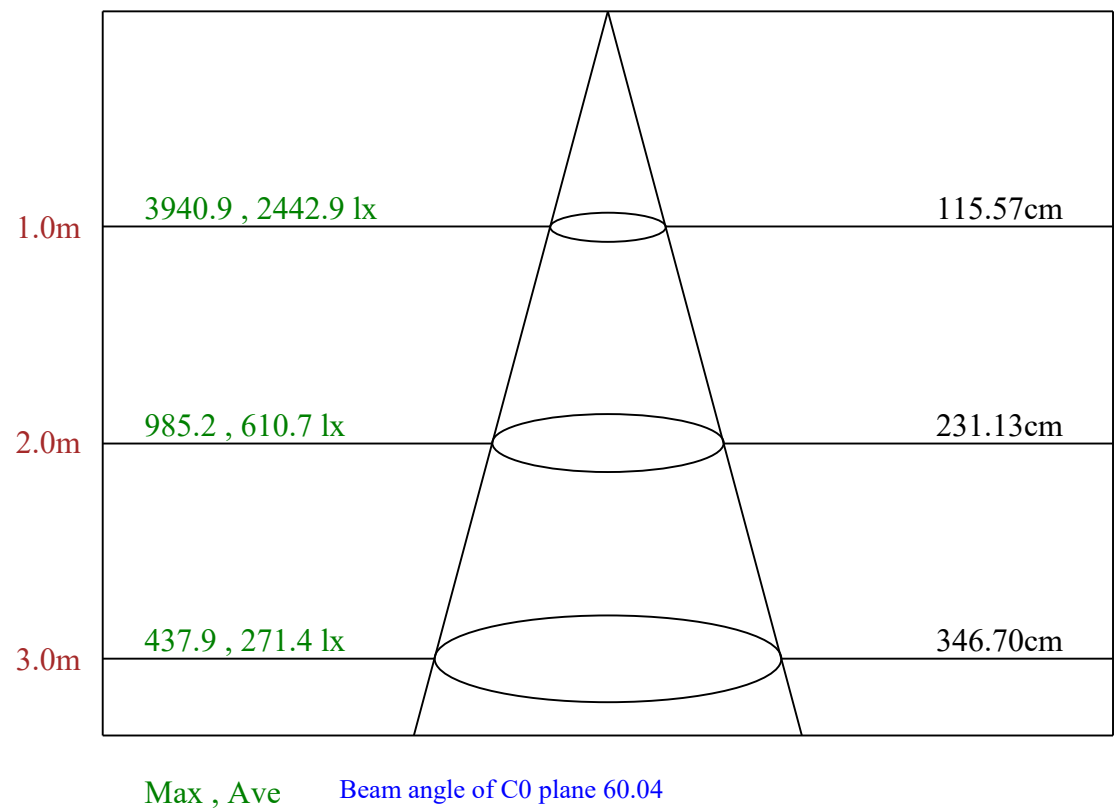
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	11.066	1.193	3477.115	0.03%	99.64%
77.0	10.700	1.160	3478.275	0.03%	99.67%
78.0	10.345	1.127	3479.402	0.03%	99.71%
79.0	9.979	1.092	3480.494	0.03%	99.74%
80.0	9.527	1.052	3481.545	0.03%	99.77%
81.0	9.075	1.006	3482.551	0.03%	99.80%
82.0	8.601	0.959	3483.51	0.03%	99.82%
83.0	8.127	0.909	3484.419	0.02%	99.85%
84.0	7.643	0.859	3485.278	0.02%	99.87%
85.0	7.223	0.811	3486.09	0.02%	99.90%
86.0	6.889	0.771	3486.861	0.02%	99.92%
87.0	6.631	0.740	3487.601	0.02%	99.94%
88.0	6.384	0.713	3488.314	0.02%	99.96%
89.0	6.222	0.691	3489.005	0.02%	99.98%
90.0	6.157	0.679	3489.684	0.02%	100.00%

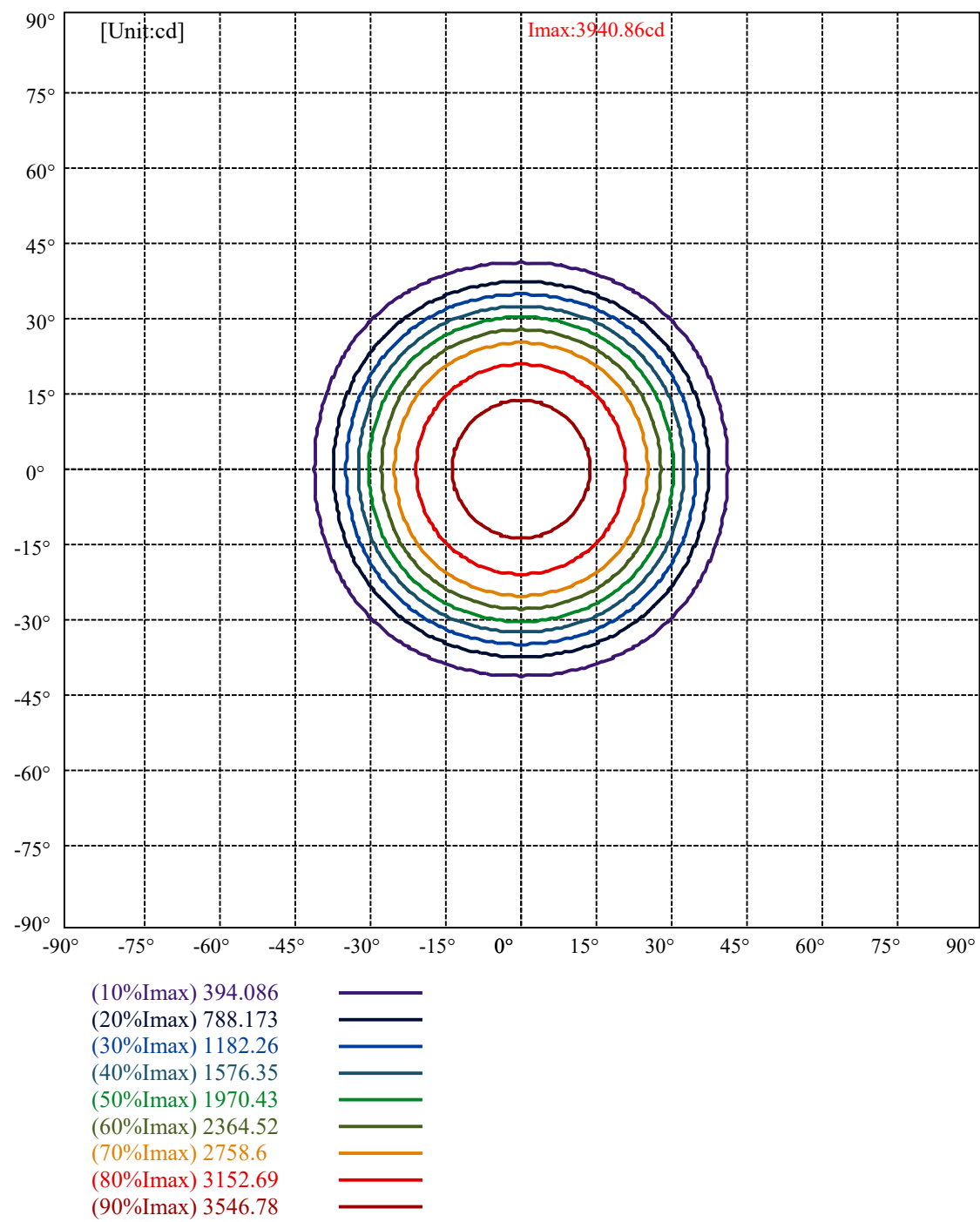
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	2560.34	69.93%	73.37%
0-40	3241.73	88.53%	92.89%
0-60	3450.56	94.24%	98.88%
0-90	3489.00	95.29%	99.98%
0-120	3489.00	95.29%	99.98%
0-180	3489.68	95.31%	100.00%
60-90	38.45	1.05%	1.10%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-32.38	2791.75	76.25%	80.00%

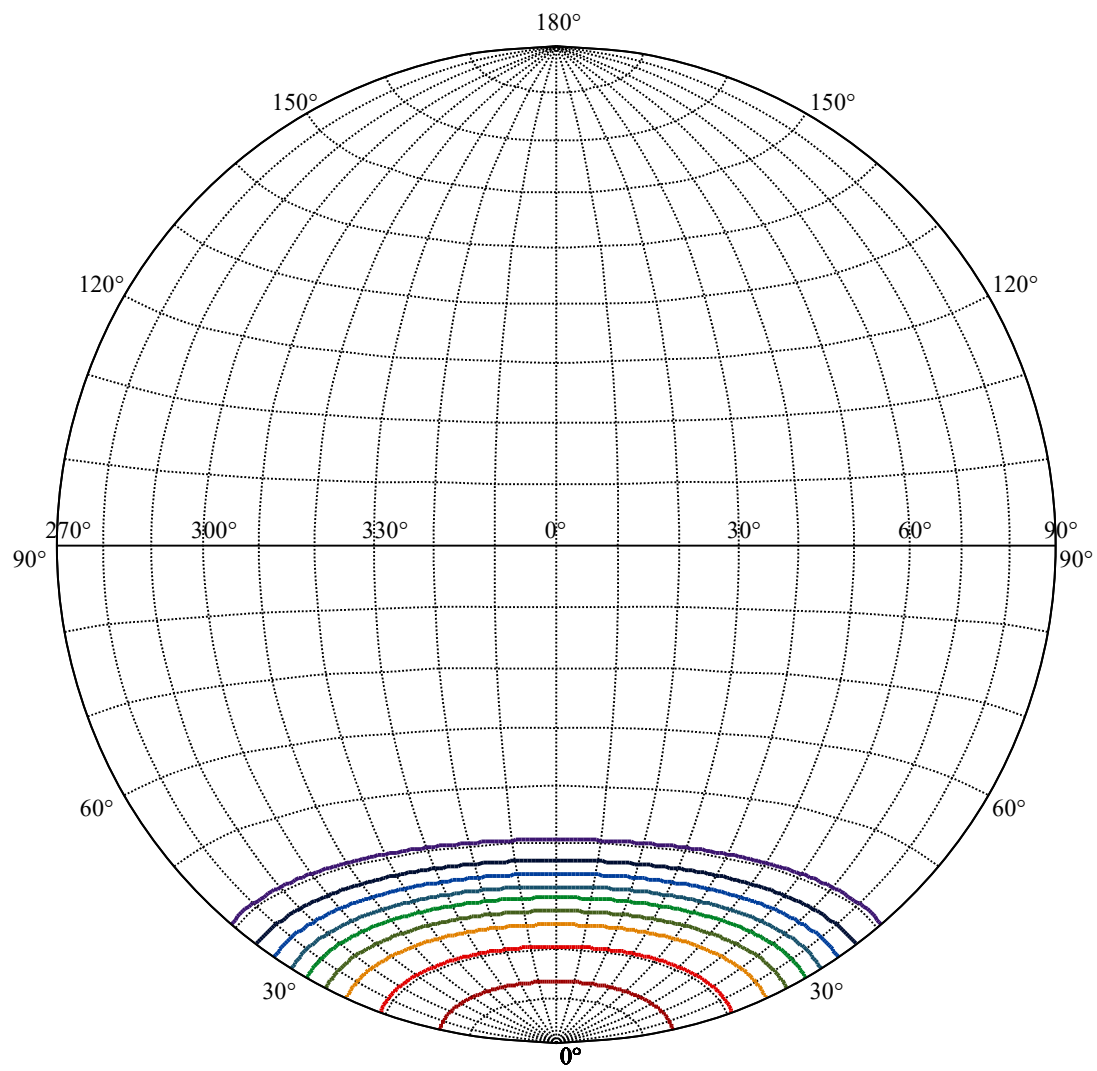
ZONAL LUMEN SUMMARY

0-10	362.64
10-20	975.35
20-30	1222.35
30-40	681.39
40-50	164.56
50-60	44.26
60-70	18.76
70-80	12.23
80-90	7.46
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







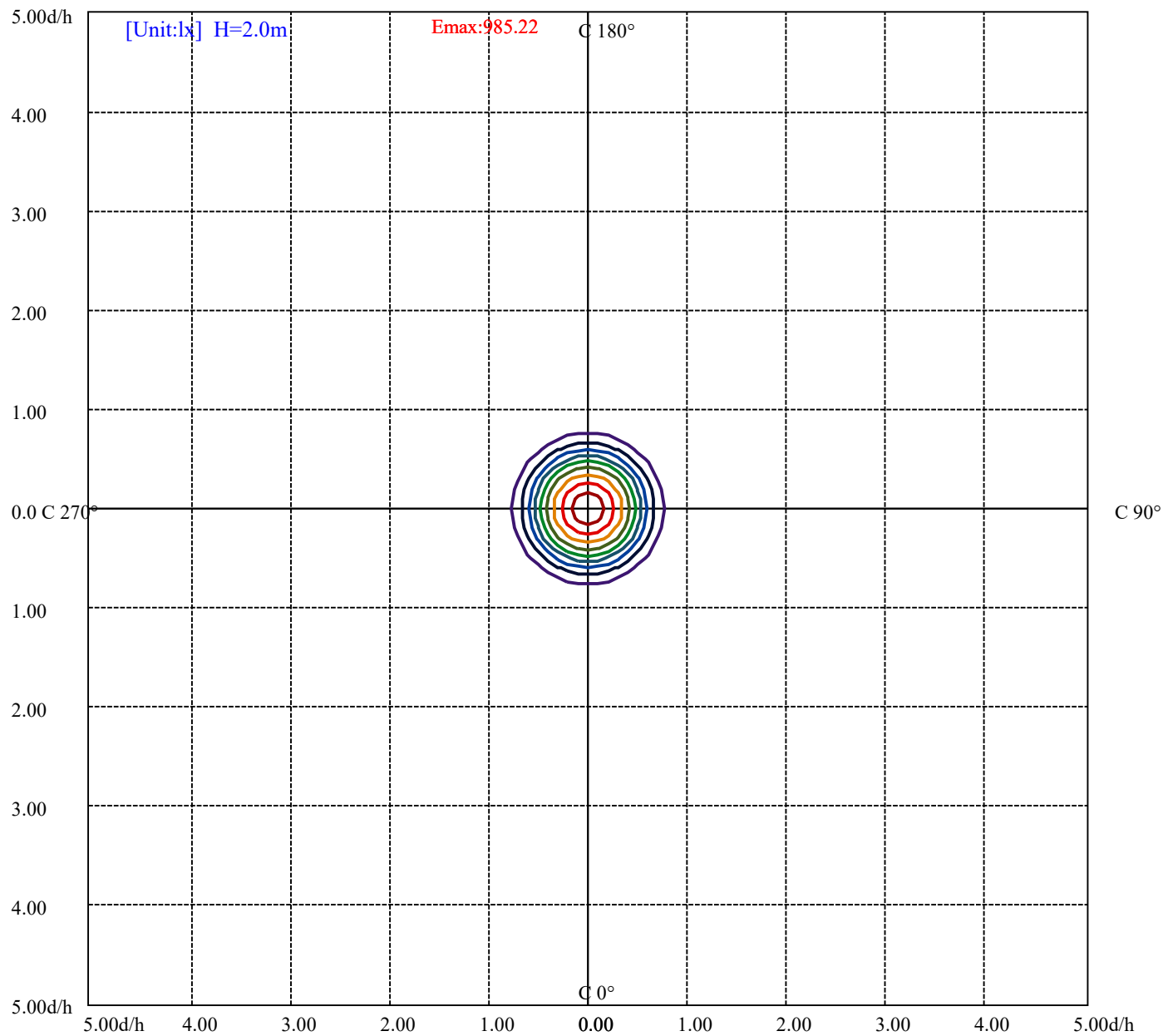


House

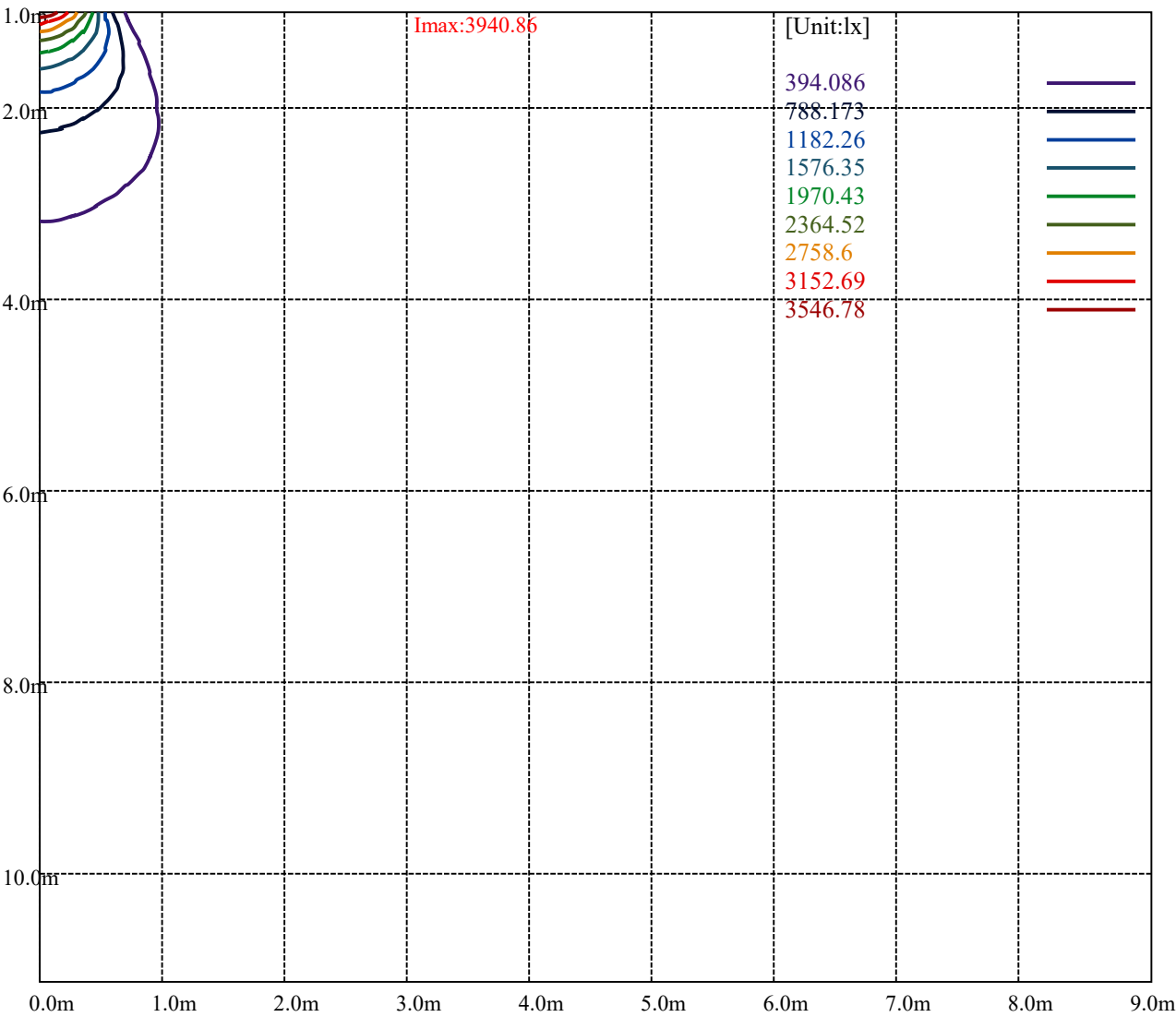
[Unit:cd]

Road

Imax:3940.86	
(10%Imax) 394.086	
(20%Imax) 788.173	
(30%Imax) 1182.26	
(40%Imax) 1576.35	
(50%Imax) 1970.43	
(60%Imax) 2364.52	
(70%Imax) 2758.6	
(80%Imax) 3152.69	
(90%Imax) 3546.78	



(10%Emax) 98.5215	—
(20%Emax) 197.0432	—
(30%Emax) 295.565	—
(40%Emax) 394.0875	—
(50%Emax) 492.6075	—
(60%Emax) 591.13	—
(70%Emax) 689.65	—
(80%Emax) 788.1725	—
(90%Emax) 886.695	—



Luminance Table

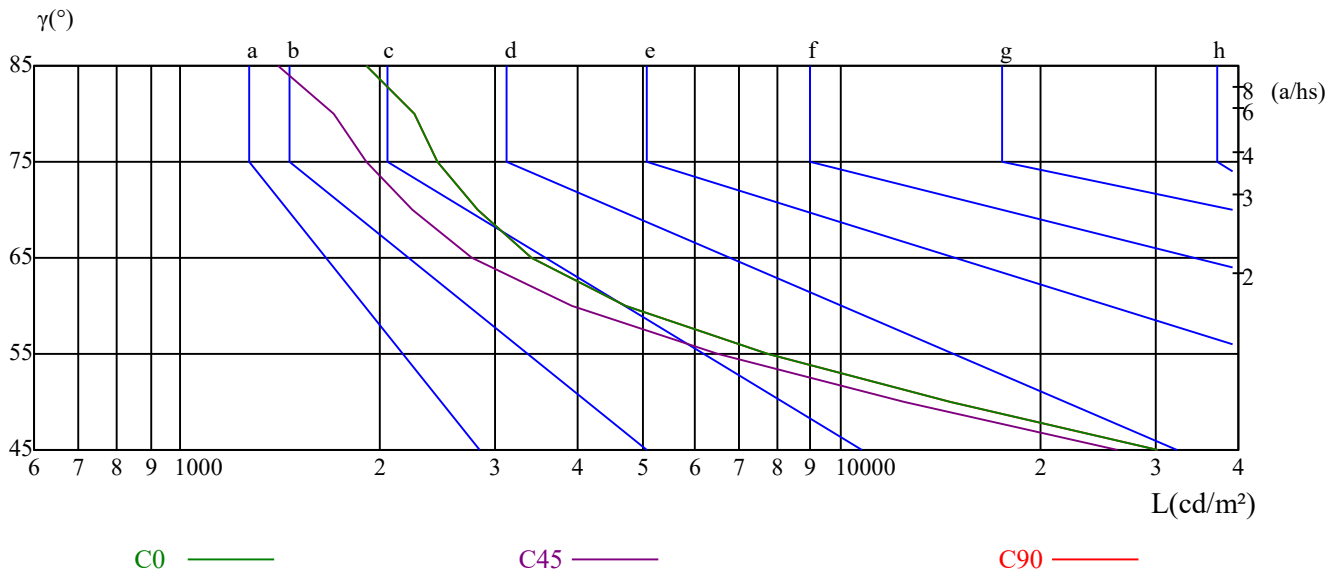
γ	45	50	55	60	65	70	75	80	85
C0	30147	14624	7756	4721	3393	2815	2455	2254	1912
C45	26143	12494	6524	3906	2757	2242	1912	1710	1405
C90	30147	14624	7756	4721	3393	2815	2455	2254	1912

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7662	7662	7662	7830	7830	7830	14734	14734	14734

Glare Table

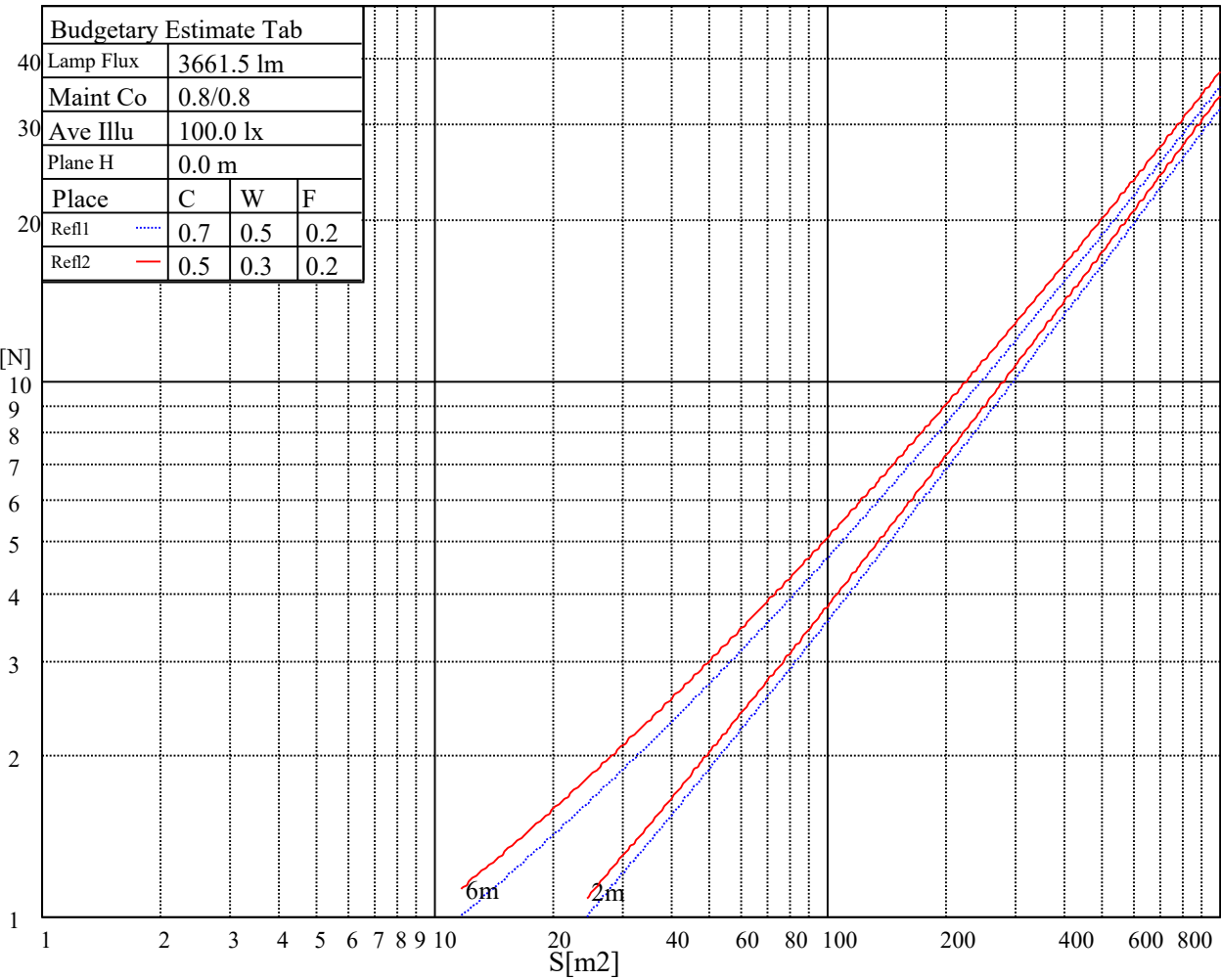
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

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	21.33	22.30	21.69	22.62	22.93	21.80	22.78	22.16	23.09	23.41
	3H	21.15	22.02	21.54	22.36	22.70	21.62	22.49	22.01	22.83	23.18
	4H	21.06	21.87	21.46	22.22	22.59	21.54	22.34	21.94	22.69	23.06
	6H	20.99	21.73	21.41	22.10	22.50	21.46	22.20	21.88	22.57	22.97
	8H	20.93	21.63	21.35	22.01	22.42	21.40	22.10	21.82	22.48	22.89
	12H	20.87	21.53	21.29	21.92	22.34	21.34	22.00	21.76	22.39	22.81
4H	2H	21.04	21.85	21.44	22.20	22.57	21.51	22.32	21.91	22.67	23.04
	3H	20.85	21.52	21.28	21.92	22.33	21.32	21.99	21.74	22.38	22.80
	4H	20.81	21.38	21.25	21.81	22.26	21.27	21.85	21.71	22.27	22.72
	6H	20.70	21.21	21.18	21.67	22.12	21.16	21.67	21.64	22.13	22.58
	8H	20.66	21.14	21.15	21.59	22.07	21.12	21.59	21.61	22.05	22.53
	12H	20.63	21.07	21.12	21.52	22.04	21.09	21.52	21.58	21.97	22.50
8H	4H	20.64	21.11	21.12	21.57	22.04	21.10	21.57	21.58	22.03	22.50
	6H	20.55	20.93	21.05	21.41	21.93	21.00	21.39	21.51	21.86	22.38
	8H	20.57	20.89	21.10	21.41	21.91	21.02	21.34	21.55	21.86	22.36
	12H	20.55	20.80	21.09	21.32	21.84	20.99	21.24	21.54	21.76	22.28
12H	4H	20.59	21.03	21.08	21.48	22.00	21.05	21.48	21.54	21.93	22.46
	6H	20.55	20.87	21.08	21.39	21.89	21.00	21.32	21.53	21.84	22.34
	8H	20.54	20.79	21.08	21.30	21.83	20.98	21.23	21.52	21.75	22.27
Variation with the observer position at spacings:											
S = 1.0H		5.2/-8.9					5.2/-8.9				
S = 1.5H		7.9/-9.6					7.9/-9.6				
S = 2.0H		9.8/-9.2					9.8/-9.2				
Standard tables:		BK0					BK0				
Uncorrected UGR		1.3					1.3				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.13	1.13	1.13	1.11	1.11	1.11	1.06	1.06	1.06	1.01	1.01	1.01	0.97	0.97	0.97	0.95
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.96	0.95	0.93	0.93	0.92	0.91	0.89
2	0.98	0.94	0.91	0.96	0.93	0.90	0.93	0.90	0.88	0.91	0.88	0.86	0.88	0.86	0.84	0.83
3	0.91	0.87	0.83	0.90	0.86	0.82	0.88	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.78	0.77
4	0.86	0.80	0.76	0.84	0.80	0.76	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.72
5	0.80	0.75	0.71	0.79	0.74	0.70	0.78	0.73	0.70	0.76	0.72	0.69	0.74	0.71	0.68	0.67
6	0.75	0.70	0.66	0.74	0.69	0.65	0.73	0.68	0.65	0.72	0.68	0.64	0.70	0.67	0.64	0.63
7	0.71	0.65	0.61	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.60	0.67	0.63	0.60	0.59
8	0.67	0.61	0.57	0.66	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.56	0.55
9	0.63	0.57	0.54	0.63	0.57	0.54	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.52
10	0.60	0.54	0.51	0.59	0.54	0.50	0.58	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.50	0.49

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	3952.06	3954.64	3959.81	3941.73	3932.25	3899.53	3883.16	3858.19	3818.58
45.0	3913.31	3929.67	3942.59	3956.37	3945.17	3934.84	3917.61	3898.67	3882.30
90.0	3950.34	3954.64	3962.39	3946.89	3935.70	3909.86	3877.14	3853.88	3828.05
135.0	3947.75	3957.23	3954.64	3964.12	3951.20	3927.09	3891.78	3859.91	3817.71
180.0	3952.06	3929.67	3903.83	3867.66	3830.63	3789.30	3752.26	3704.90	3663.56
225.0	3913.31	3894.36	3855.61	3817.71	3784.99	3747.10	3701.45	3663.56	3628.25
270.0	3950.34	3927.95	3913.31	3880.58	3847.86	3816.85	3791.88	3752.26	3725.57
315.0	3947.75	3926.22	3911.58	3878.00	3848.72	3829.77	3786.71	3753.99	3720.40
360.0	3952.06	3954.64	3959.81	3941.73	3932.25	3899.53	3883.16	3858.19	3818.58
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3793.60	3753.13	3716.96	3679.06	3642.03	3600.70	3555.91	3505.10	3456.88
45.0	3851.30	3816.85	3807.38	3772.07	3744.51	3715.23	3670.45	3631.70	3582.61
90.0	3802.21	3770.35	3741.07	3707.48	3668.73	3622.23	3583.47	3541.27	3500.80
135.0	3767.77	3735.90	3685.09	3640.31	3604.14	3571.42	3526.63	3467.21	3428.46
180.0	3623.95	3584.33	3546.44	3504.24	3469.80	3418.99	3373.34	3313.06	3260.53
225.0	3593.81	3536.11	3499.94	3452.57	3393.15	3340.62	3277.75	3215.75	3163.21
270.0	3691.12	3660.12	3611.89	3574.86	3537.83	3492.19	3447.41	3388.85	3346.65
315.0	3680.79	3642.89	3592.08	3551.61	3503.38	3451.71	3399.18	3347.51	3288.95
360.0	3793.60	3753.13	3716.96	3679.06	3642.03	3600.70	3555.91	3505.10	3456.88
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3404.35	3344.06	3281.20	3213.16	3127.91	3052.98	2948.78	2855.77	2755.01
45.0	3530.94	3483.58	3433.63	3360.43	3301.87	3227.80	3133.07	3052.98	2966.00
90.0	3441.38	3383.68	3335.45	3267.42	3206.27	3115.85	3030.59	2941.03	2834.24
135.0	3378.51	3329.42	3268.28	3211.44	3151.16	3076.24	3009.92	2923.81	2842.85
180.0	3205.41	3139.96	3054.71	2981.51	2906.58	2800.66	2706.79	2587.08	2415.71
225.0	3102.07	3013.37	2942.75	2866.97	2784.29	2649.09	2520.77	2377.82	2239.16
270.0	3300.14	3245.89	3167.52	3104.65	3030.59	2943.61	2812.71	2689.56	2554.36
315.0	3225.22	3156.33	3081.40	3005.62	2906.58	2804.96	2692.15	2531.97	2389.01
360.0	3404.35	3344.06	3281.20	3213.16	3127.91	3052.98	2948.78	2855.77	2755.01
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	2607.75	2466.52	2306.34	2147.88	1707.56	1707.56	1573.21	1393.31	1175.17
45.0	2863.52	2711.09	2566.41	2410.54	2251.22	2029.04	1856.80	1688.01	1463.24
90.0	2679.23	2535.41	2382.12	2217.63	1709.71	1709.71	1668.11	1466.08	1293.93
135.0	2742.10	2590.53	2451.02	2306.34	2145.30	1979.09	1756.04	1575.19	1392.62
180.0	2260.69	2103.96	1881.77	1702.65	1520.94	1357.31	1153.21	978.39	813.04
225.0	2046.26	1681.03	1681.03	1523.09	1360.84	1164.92	1013.18	876.43	738.12
270.0	2406.23	2208.16	2035.06	1817.18	1651.84	1495.10	1297.89	1138.57	980.97
315.0	2187.49	1697.14	1697.14	1652.78	1430.17	1267.15	1105.33	950.40	766.45
360.0	2607.75	2466.52	2306.34	2147.88	1707.56	1707.56	1573.21	1393.31	1175.17
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1007.84	847.75	700.75	536.00	426.63	328.63	275.41	235.10	188.77
45.0	1293.58	1130.82	929.30	776.87	642.53	496.13	435.85	435.85	307.61
90.0	1132.54	949.97	816.32	691.62	559.43	491.99	436.79	383.14	318.55
135.0	1217.80	1007.67	855.24	675.25	551.24	452.21	452.21	313.38	269.98
180.0	678.70	518.52	439.29	439.29	263.44	224.34	190.06	152.26	128.06
225.0	587.93	483.38	409.23	351.97	294.35	254.14	219.60	189.12	157.25
270.0	836.30	687.31	582.25	507.32	450.49	436.71	373.50	294.09	250.17
315.0	637.88	526.79	440.41	362.56	315.45	271.62	223.82	192.39	160.35
360.0	1007.84	847.75	700.75	536.00	426.63	328.63	275.41	235.10	188.77

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	158.29	132.71	108.25	93.09	80.00	69.50	58.56	51.58	45.90
45.0	255.77	219.52	189.72	165.00	138.48	119.96	104.20	87.24	77.25
90.0	280.40	246.13	214.35	175.34	153.03	134.86	113.85	97.57	82.59
135.0	221.07	186.88	160.87	138.48	115.83	99.21	86.12	75.35	64.24
180.0	111.09	92.06	79.92	69.50	61.06	52.19	46.50	41.94	37.98
225.0	136.24	114.19	98.95	86.72	73.20	64.59	56.75	48.40	42.89
270.0	219.95	194.54	165.26	145.28	128.66	109.97	96.88	85.86	73.72
315.0	139.25	120.91	104.89	88.44	77.76	68.46	60.37	52.10	46.59
360.0	158.29	132.71	108.25	93.09	80.00	69.50	58.56	51.58	45.90
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	41.25	36.43	33.16	30.31	27.30	25.32	23.25	21.62	20.24
45.0	66.40	58.56	52.79	46.50	41.77	38.32	35.48	32.21	29.97
90.0	72.60	63.64	53.65	47.28	41.94	37.46	32.04	28.59	26.01
135.0	56.58	49.60	43.23	38.75	34.45	30.23	27.39	24.97	22.30
180.0	33.50	30.49	27.30	25.32	23.51	21.44	20.15	19.03	17.48
225.0	38.24	33.93	29.97	27.13	24.29	22.13	19.89	18.00	16.10
270.0	65.54	57.96	51.15	44.87	40.56	36.34	32.98	29.88	27.21
315.0	41.68	37.29	32.98	30.14	26.87	24.72	22.99	20.75	19.29
360.0	41.25	36.43	33.16	30.31	27.30	25.32	23.25	21.62	20.24
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	19.20	17.74	16.79	16.02	15.24	14.38	13.61	13.00	12.40
45.0	28.33	26.87	24.89	23.85	23.25	22.39	21.70	21.19	20.50
90.0	23.60	20.50	19.12	18.00	16.53	15.59	14.81	13.87	13.00
135.0	20.67	19.03	17.48	16.19	15.42	14.55	13.78	12.83	11.97
180.0	16.53	15.67	14.90	14.04	13.26	12.49	11.80	10.85	10.25
225.0	15.16	14.30	13.26	12.57	11.88	11.11	10.25	9.65	9.13
270.0	24.72	23.68	22.56	21.27	20.41	19.55	18.77	17.74	17.05
315.0	18.43	17.48	16.71	16.02	15.42	14.90	14.47	14.04	13.61
360.0	19.20	17.74	16.79	16.02	15.24	14.38	13.61	13.00	12.40
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.80	11.37	10.76	10.33	9.99	9.39	8.87	8.35	8.01
45.0	19.98	19.46	19.03	18.60	18.26	18.17	17.74	17.14	16.36
90.0	12.23	11.37	10.76	10.25	9.90	9.56	9.21	8.96	8.70
135.0	11.11	10.16	9.56	8.87	8.53	8.35	8.27	8.18	8.01
180.0	9.65	9.04	8.70	8.53	8.44	8.35	8.27	8.10	7.92
225.0	8.61	8.27	8.18	8.10	8.01	7.84	7.75	7.66	7.49
270.0	16.28	15.76	15.24	14.90	14.47	13.78	13.18	12.66	11.63
315.0	13.09	12.75	12.31	11.63	10.94	10.16	9.47	8.78	8.10
360.0	11.80	11.37	10.76	10.33	9.99	9.39	8.87	8.35	8.01
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	7.84	7.66	7.58	7.41	7.32	7.06	6.98	6.72	6.63
45.0	15.16	14.04	12.14	10.51	8.87	7.92	7.15	6.72	6.46
90.0	8.44	8.01	7.75	7.49	7.23	6.80	6.63	6.37	6.11
135.0	7.92	7.75	7.66	7.49	7.32	7.23	7.06	6.80	6.54
180.0	7.84	7.75	7.58	7.41	7.15	6.98	6.72	6.37	6.20
225.0	7.41	7.23	7.15	6.72	6.54	6.37	6.20	6.03	6.03
270.0	10.51	9.13	8.10	7.49	6.89	6.46	6.20	6.11	5.94
315.0	7.49	7.23	7.06	6.63	6.46	6.29	6.11	5.94	5.86
360.0	7.84	7.66	7.58	7.41	7.32	7.06	6.98	6.72	6.63

Intensity data(cd)

C/ γ (°)	90.0
0.0	6.63
45.0	6.29
90.0	6.03
135.0	6.37
180.0	6.20
225.0	5.94
270.0	5.94
315.0	5.86
360.0	6.63