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NATA

LumCAT: 2-1121-A4

Luminaire: 99.02.73.172+92.76.365.00

Report No: NATA0100

Test No: GC2019011607

LampCAT: CITIZEN CMT1922

Lamp flux(lm): 2875.0

Number of Lamps: 1

Length(mm): 71

Phm Type: C

Voltage(V): 35.6000

Current(A): 0.6000

Power (W): 21.3600

PF: 0.0000

Ballast type: DC

Width(mm): 71

Height(mm): 0

Photometric Results

Lumens(lm): 2603.71

Efficiency(%): 90.56%

Lumens(lm)/Power(W): 121.98

Central intensity(cd): 8278.313

Maximum intensity(cd): 8278.313

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=27.3

[C90/270]Total=27.3

Field angle(10%Imax): [C0/180]Total=66.1

[C90/270]Total=66.1

Maximum s/h(1/2): C0_180=0.47 C90_270=0.47

Maximum s/h(1/4): C0_180=0.43 C90_270=0.43

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 90.63%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 98.627%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	8278.313	1.981	1.981	.069%	.076%
1.0	8256.164	15.801	17.782	.550%	.683%
2.0	8197.523	31.373	49.154	1.091%	1.888%
3.0	8107.453	46.530	95.685	1.618%	3.675%
4.0	7998.609	61.186	156.871	2.128%	6.025%
5.0	7876.828	75.283	232.154	2.619%	8.916%
6.0	7703.789	88.306	320.46	3.072%	12.308%
7.0	7458.328	99.675	420.135	3.467%	16.136%
8.0	7172.859	109.471	529.606	3.808%	20.340%
9.0	6793.383	116.539	646.145	4.054%	24.816%
10.0	6297.047	119.911	766.056	4.171%	29.422%
11.0	5798.180	121.323	887.379	4.220%	34.081%
12.0	5246.227	119.613	1006.992	4.160%	38.675%
13.0	4536.773	111.915	1118.906	3.893%	42.973%
14.0	3938.414	104.484	1223.39	3.634%	46.986%
15.0	3388.430	96.172	1319.561	3.345%	50.680%
16.0	2789.367	84.313	1403.875	2.933%	53.918%
17.0	2320.453	74.398	1478.272	2.588%	56.776%
18.0	1974.727	66.918	1545.19	2.328%	59.346%
19.0	1674.914	59.798	1604.988	2.080%	61.642%
20.0	1473.680	55.272	1660.26	1.923%	63.765%
21.0	1333.688	52.413	1712.673	1.823%	65.778%
22.0	1227.586	50.429	1763.102	1.754%	67.715%
23.0	1152.661	49.389	1812.491	1.718%	69.612%
24.0	1107.788	49.411	1861.901	1.719%	71.509%
25.0	1063.470	49.286	1911.188	1.714%	73.402%
26.0	1031.752	49.599	1960.786	1.725%	75.307%
27.0	1004.245	49.996	2010.782	1.739%	77.227%
28.0	974.461	50.168	2060.95	1.745%	79.154%
29.0	951.834	50.604	2111.554	1.760%	81.098%
30.0	932.681	51.139	2162.694	1.779%	83.062%
31.0	908.986	51.339	2214.033	1.786%	85.034%
32.0	879.082	51.085	2265.117	1.777%	86.996%
33.0	831.488	49.661	2314.778	1.727%	88.903%
34.0	748.765	45.915	2360.694	1.597%	90.666%
35.0	664.952	41.825	2402.519	1.455%	92.273%
36.0	578.018	37.257	2439.776	1.296%	93.704%
37.0	470.995	31.084	2470.86	1.081%	94.898%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	380.707	25.703	2496.563	.894%	95.885%
39.0	288.907	19.938	2516.501	.693%	96.650%
40.0	199.470	14.060	2530.561	.489%	97.190%
41.0	119.791	8.618	2539.179	.300%	97.521%
42.0	66.558	4.884	2544.063	.170%	97.709%
43.0	39.333	2.942	2547.005	.102%	97.822%
44.0	32.210	2.454	2549.458	.085%	97.916%
45.0	26.002	2.016	2551.475	.070%	97.994%
46.0	20.573	1.623	2553.098	.056%	98.056%
47.0	18.302	1.468	2554.565	.051%	98.112%
48.0	16.130	1.314	2555.88	.046%	98.163%
49.0	14.491	1.199	2557.079	.042%	98.209%
50.0	14.098	1.184	2558.263	.041%	98.254%
51.0	13.795	1.176	2559.439	.041%	98.300%
52.0	13.486	1.165	2560.605	.041%	98.344%
53.0	13.261	1.161	2561.766	.040%	98.389%
54.0	13.043	1.157	2562.923	.040%	98.433%
55.0	12.853	1.155	2564.078	.040%	98.478%
56.0	12.684	1.153	2565.231	.040%	98.522%
57.0	12.509	1.150	2566.381	.040%	98.566%
58.0	12.354	1.149	2567.53	.040%	98.610%
59.0	12.206	1.147	2568.677	.040%	98.654%
60.0	12.066	1.146	2569.823	.040%	98.698%
61.0	11.932	1.144	2570.968	.040%	98.742%
62.0	11.820	1.144	2572.112	.040%	98.786%
63.0	11.721	1.145	2573.257	.040%	98.830%
64.0	11.623	1.146	2574.403	.040%	98.874%
65.0	11.538	1.147	2575.55	.040%	98.918%
66.0	11.447	1.147	2576.696	.040%	98.962%
67.0	11.363	1.147	2577.843	.040%	99.006%
68.0	11.292	1.148	2578.992	.040%	99.051%
69.0	11.201	1.147	2580.138	.040%	99.095%
70.0	11.130	1.147	2581.285	.040%	99.139%
71.0	11.074	1.148	2582.434	.040%	99.183%
72.0	11.004	1.148	2583.581	.040%	99.227%
73.0	10.969	1.150	2584.731	.040%	99.271%
74.0	10.898	1.149	2585.88	.040%	99.315%
75.0	10.863	1.151	2587.031	.040%	99.359%

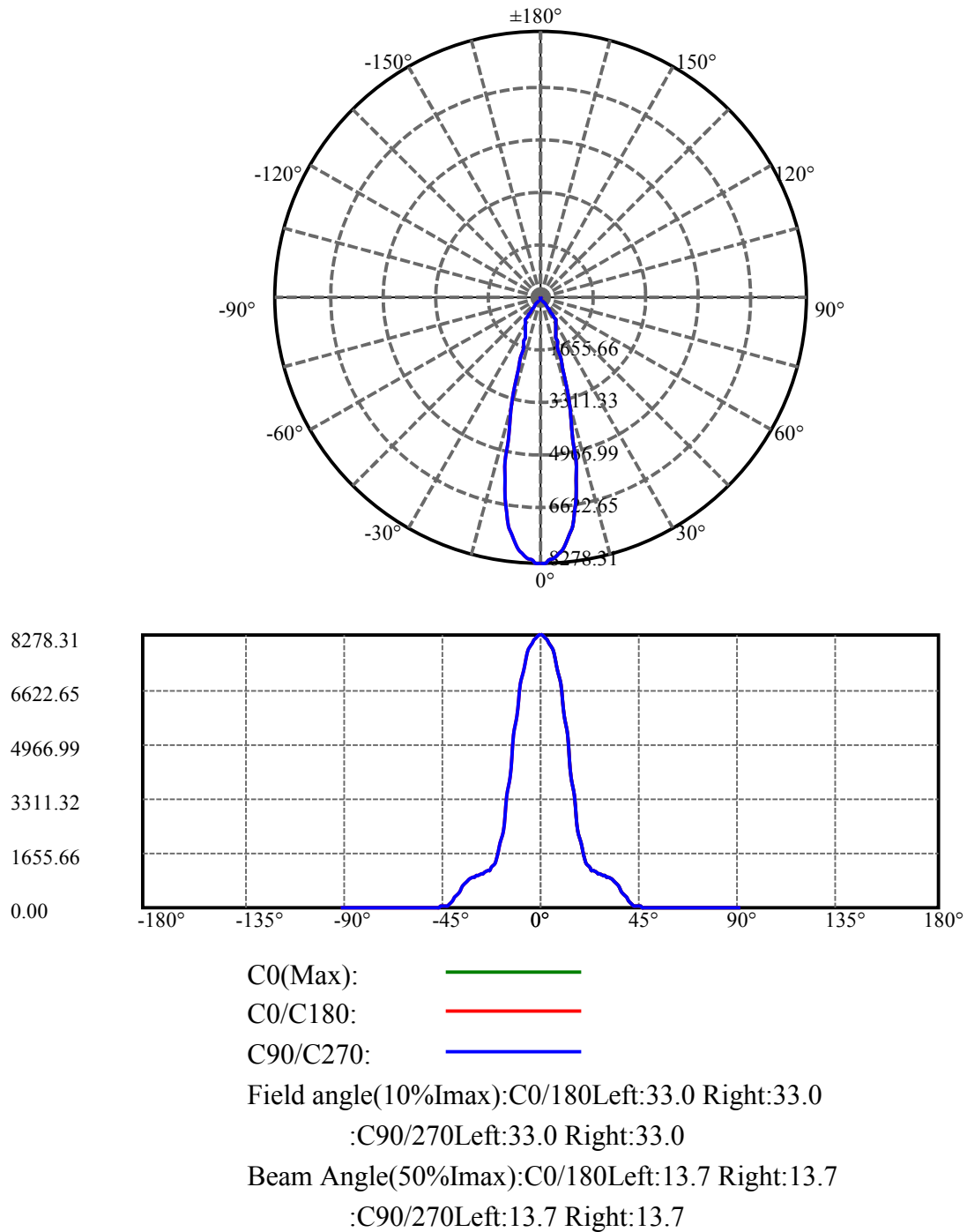
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.800	1.149	2588.18	.040%	99.403%
77.0	10.765	1.150	2589.33	.040%	99.448%
78.0	10.730	1.151	2590.481	.040%	99.492%
79.0	10.695	1.151	2591.632	.040%	99.536%
80.0	10.652	1.150	2592.783	.040%	99.580%
81.0	10.631	1.151	2593.934	.040%	99.624%
82.0	10.617	1.153	2595.087	.040%	99.669%
83.0	10.582	1.152	2596.239	.040%	99.713%
84.0	10.575	1.153	2597.392	.040%	99.757%
85.0	10.589	1.157	2598.549	.040%	99.802%
86.0	10.582	1.158	2599.707	.040%	99.846%
87.0	10.491	1.149	2600.856	.040%	99.890%
88.0	10.441	1.144	2602	.040%	99.934%
89.0	10.420	1.143	2603.142	.040%	99.978%
90.0	10.413	0.571	2603.713	.020%	100.000%

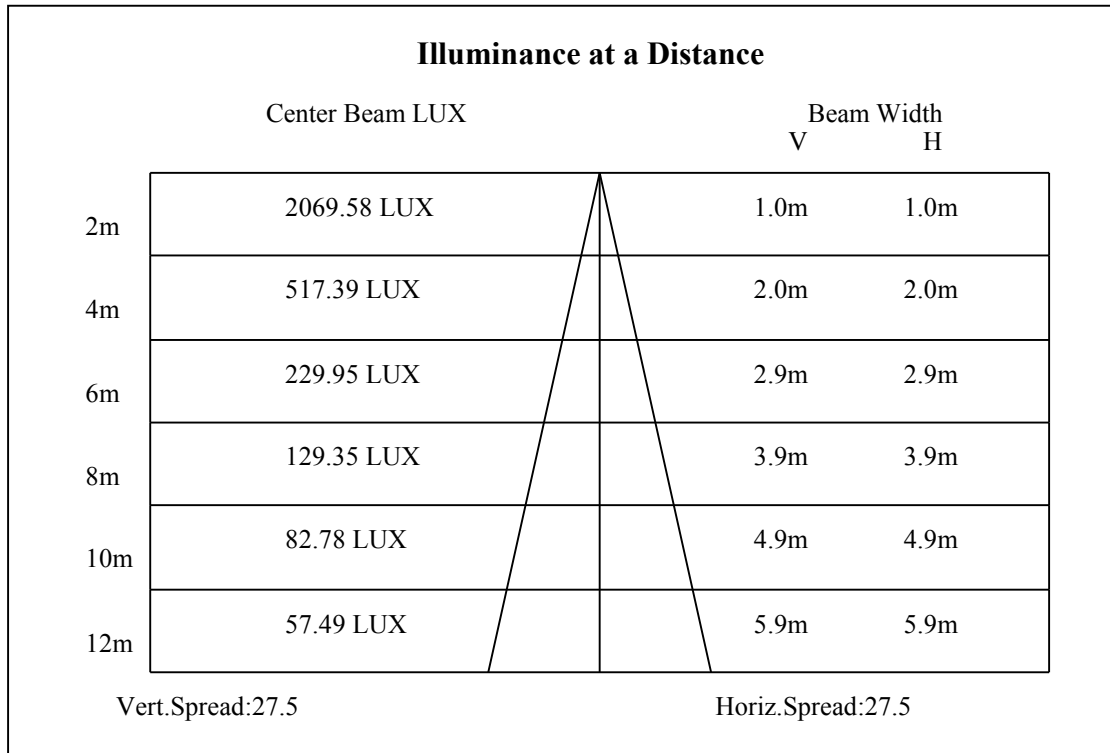
ZONAL LUMEN SUMMARY

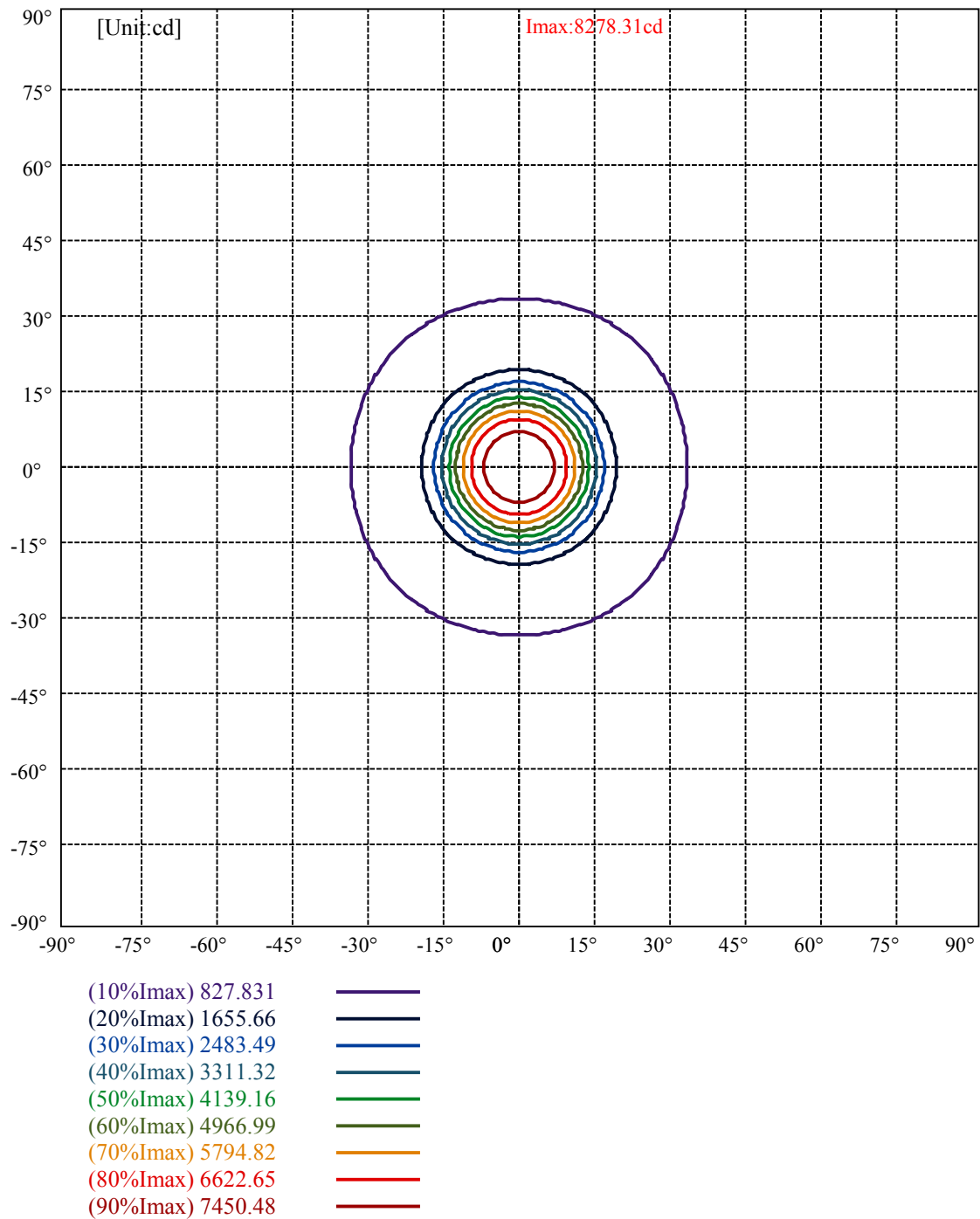
Zone	Lumens	%Lamp	%Fixt
0-30	2162.69	75.22%	83.06%
0-40	2530.56	88.02%	97.19%
0-60	2569.82	89.39%	98.70%
0-90	2603.14	90.54%	99.98%
0-120	2603.14	90.54%	99.98%
0-180	2603.71	90.56%	100.00%
60-90	34.47	1.20%	1.32%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-28.44	2082.97	72.45%	80.00%

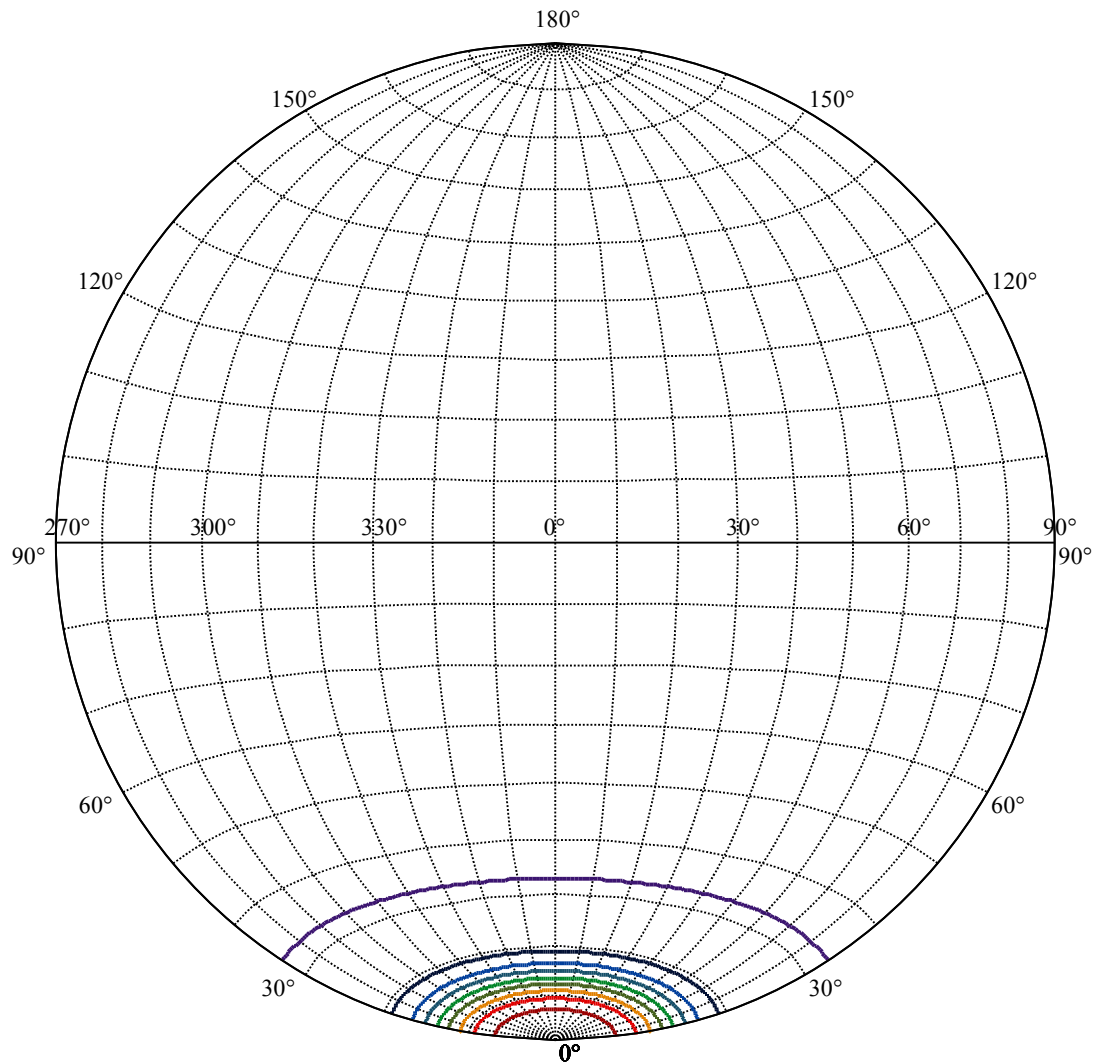
ZONAL LUMEN SUMMARY

0-10	766.06
10-20	894.20
20-30	502.43
30-40	367.87
40-50	27.70
50-60	11.56
60-70	11.46
70-80	11.50
80-90	10.36
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









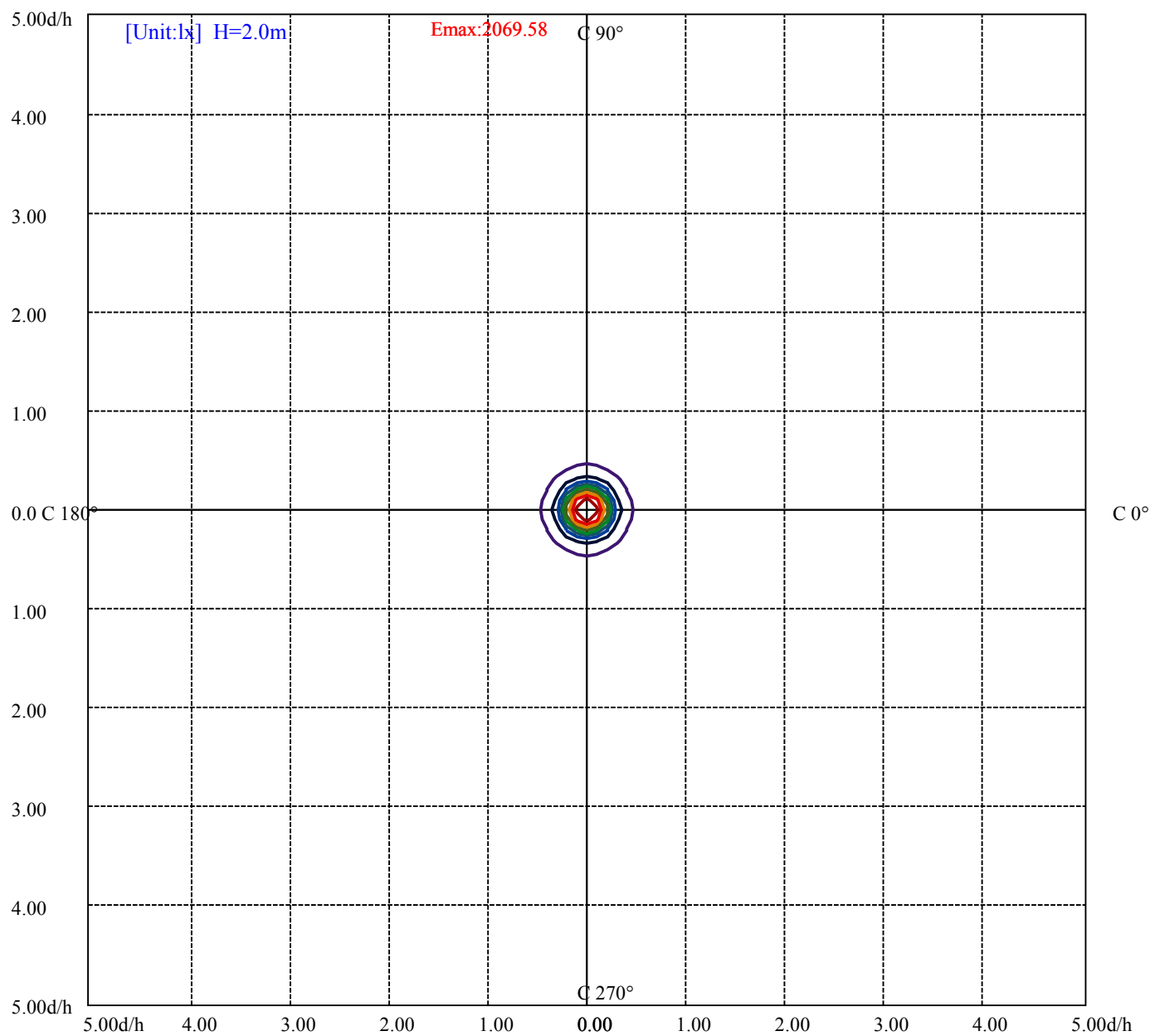
House

[Unit:cd]

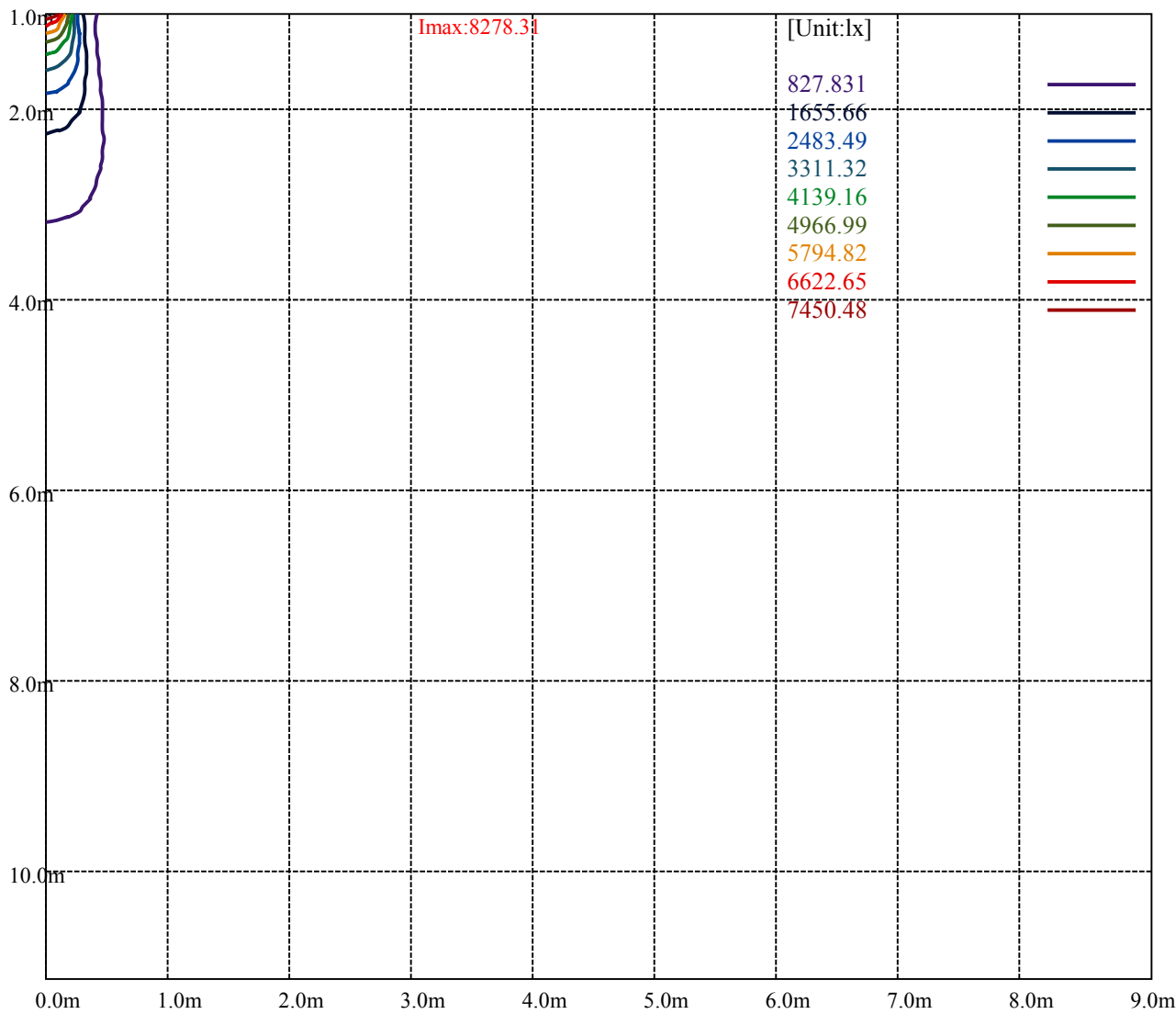
Road

I_{max}:8278.31

(10%I _{max})	827.831	—
(20%I _{max})	1655.66	—
(30%I _{max})	2483.49	—
(40%I _{max})	3311.32	—
(50%I _{max})	4139.16	—
(60%I _{max})	4966.99	—
(70%I _{max})	5794.82	—
(80%I _{max})	6622.65	—
(90%I _{max})	7450.48	—



(10%E _{max}) 206.9577	—
(20%E _{max}) 413.915	—
(30%E _{max}) 620.8725	—
(40%E _{max}) 827.83	—
(50%E _{max}) 1034.787	—
(60%E _{max}) 1241.748	—
(70%E _{max}) 1448.705	—
(80%E _{max}) 1655.662	—
(90%E _{max}) 1862.62	—



Luminance Table

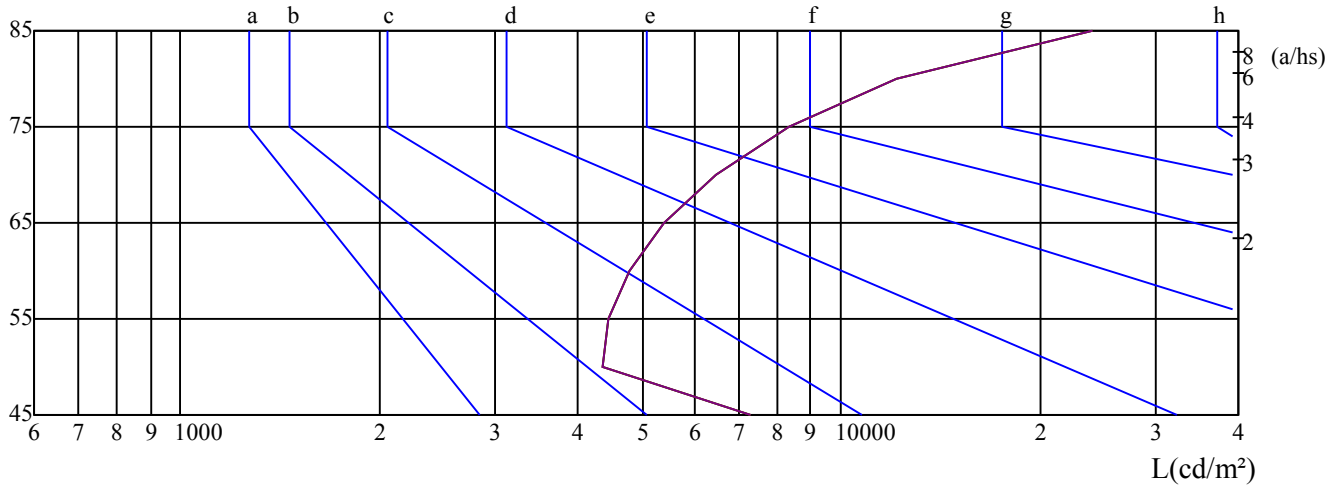
γ	45	50	55	60	65	70	75	80	85
C0	7295	4351	4445	4787	5416	6456	8326	12169	24102
C45	7295	4351	4445	4787	5416	6456	8326	12169	24102
C90	7295	4351	4445	4787	5416	6456	8326	12169	24102

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5416	5416	5416	8326	8326	8326	24102	24102	24102

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

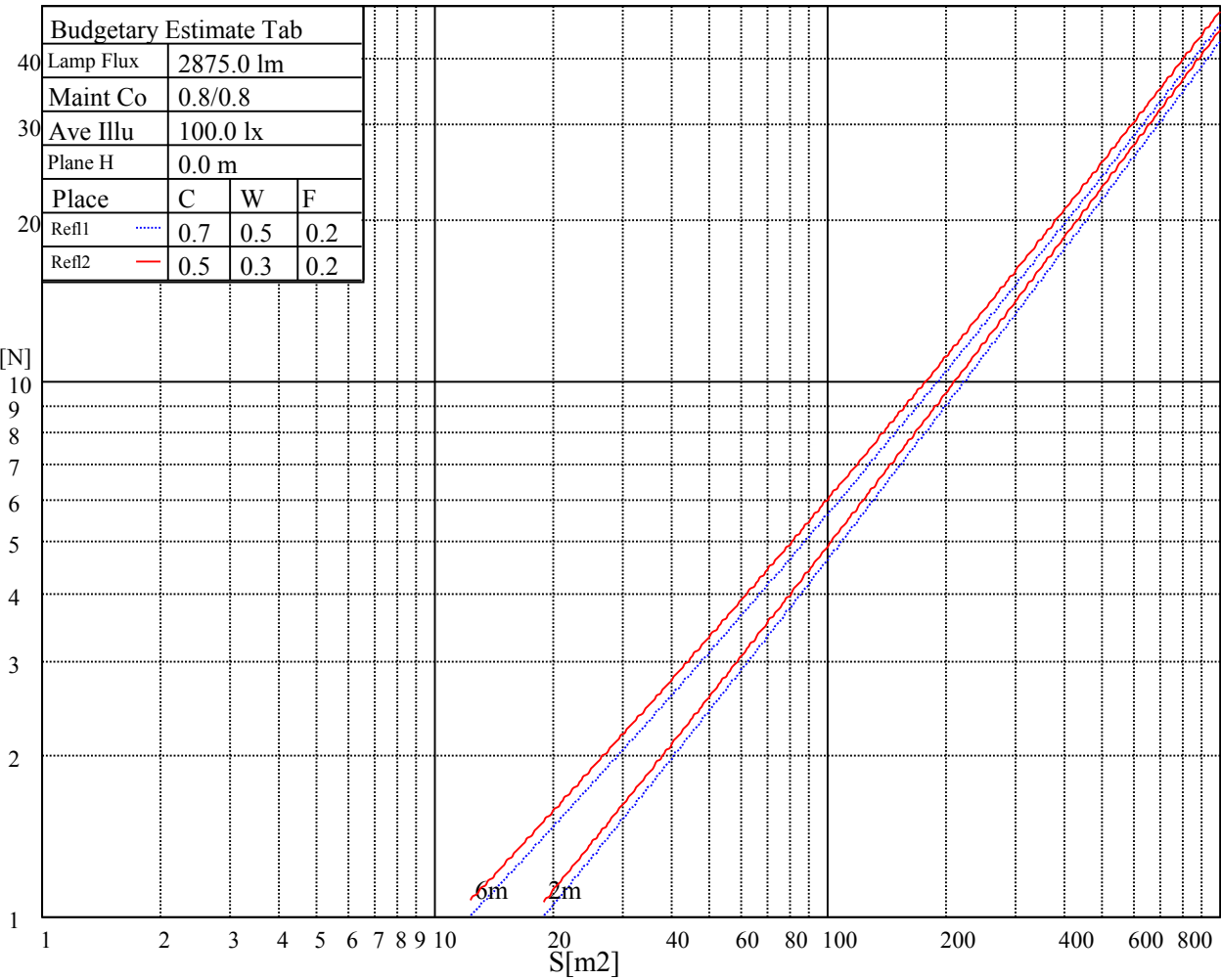
 $\gamma(^{\circ})$ 

C0 ———

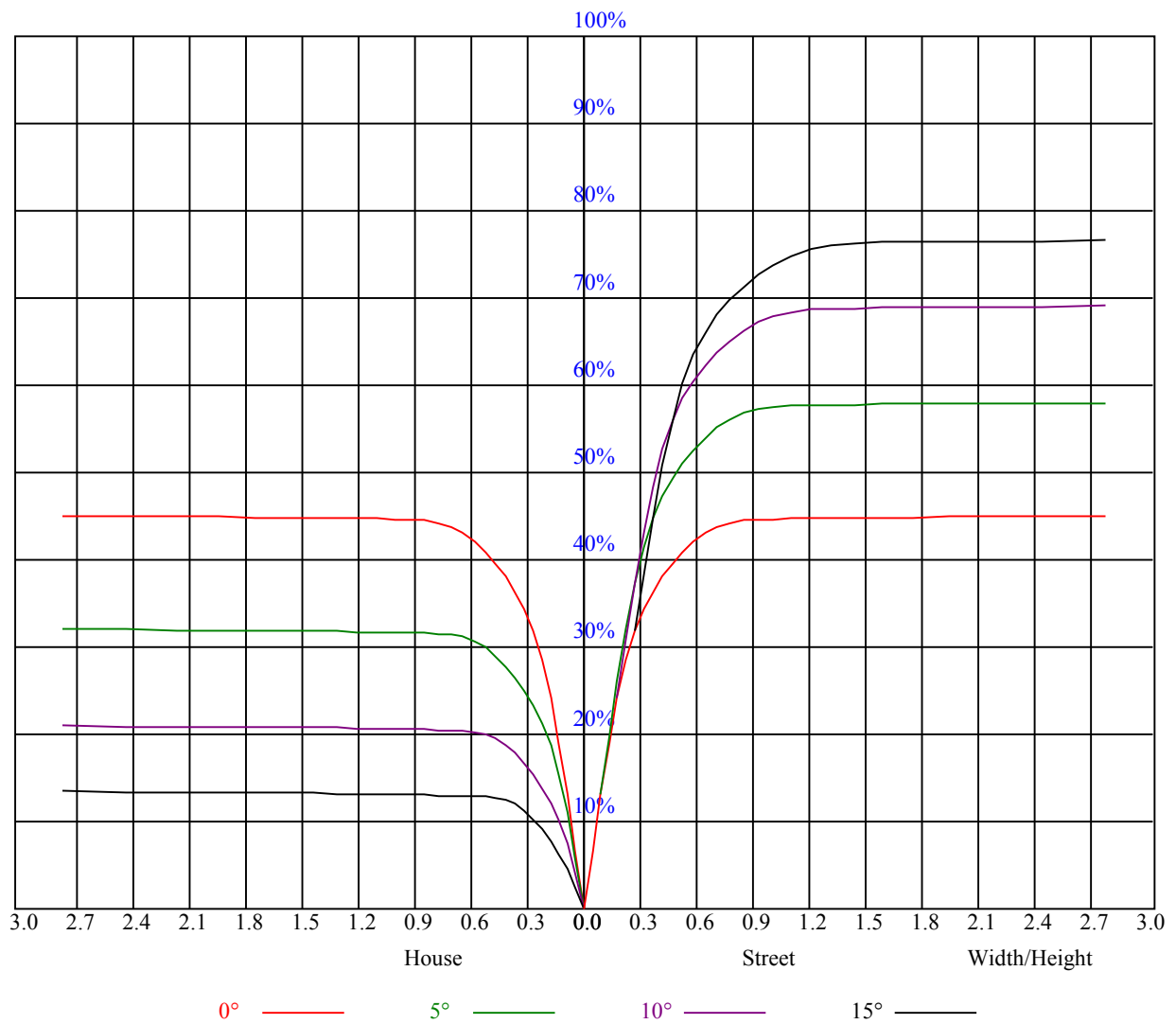
C45 ———

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	2.76	3.67	3.12	3.98	4.30	2.82	3.73	3.18	4.04	4.36
	3H	5.83	6.64	6.21	6.97	7.34	5.88	6.69	6.27	7.02	7.39
	4H	7.52	8.27	7.93	8.62	9.01	7.56	8.31	7.97	8.66	9.05
	6H	9.42	10.10	9.84	10.48	10.88	9.45	10.13	9.87	10.51	10.91
	8H	10.48	11.12	10.92	11.51	11.92	10.52	11.16	10.95	11.55	11.96
	12H	12.21	12.82	12.64	13.20	13.64	12.27	12.88	12.71	13.27	13.70
4H	2H	3.63	4.37	4.04	4.73	5.12	3.67	4.42	4.08	4.77	5.16
	3H	6.95	7.56	7.37	7.98	8.38	7.00	7.61	7.42	8.02	8.43
	4H	8.82	9.36	9.26	9.79	10.24	8.85	9.40	9.29	9.82	10.27
	6H	10.88	11.35	11.35	11.80	12.27	10.90	11.37	11.37	11.82	12.30
	8H	12.04	12.48	12.52	12.93	13.40	12.07	12.51	12.55	12.96	13.43
	12H	13.67	14.05	14.17	14.54	15.02	13.73	14.10	14.22	14.59	15.07
8H	4H	9.53	9.96	10.00	10.41	10.89	9.55	9.99	10.03	10.44	10.91
	6H	11.87	12.21	12.38	12.71	13.20	11.88	12.23	12.39	12.73	13.22
	8H	13.22	13.52	13.75	14.05	14.54	13.24	13.55	13.78	14.07	14.57
	12H	15.00	15.26	15.52	15.76	16.34	15.05	15.31	15.57	15.81	16.39
12H	4H	9.73	10.10	10.22	10.59	11.07	9.75	10.12	10.24	10.61	11.09
	6H	12.38	12.48	12.72	12.96	13.51	12.39	12.50	12.73	12.97	13.52
	8H	13.66	13.92	14.19	14.42	15.01	13.68	13.94	14.21	14.44	15.02
Variation with the observer position at spacings:											
S = 1.0H		5.4/-8.0					5.4/-8.0				
S = 1.5H		7.6/-6.1					7.6/-6.1				
S = 2.0H		9.1/-4.6					9.1/-4.6				
Standard tables:		BK2					BK2				
Uncorrected UGR		2.1					2.1				



RHOC	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	1.08	1.08	1.08	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.92	0.92	0.92	0.91
1	1.01	0.99	0.97	0.99	0.98	0.96	0.96	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.88	0.86
2	0.96	0.92	0.90	0.94	0.91	0.89	0.91	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	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.79	0.78
4	0.86	0.82	0.79	0.85	0.82	0.79	0.83	0.80	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.82	0.78	0.75	0.82	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.72
6	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
7	0.76	0.71	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
8	0.73	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64
9	0.70	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.68	0.64	0.62	0.61
10	0.68	0.63	0.61	0.67	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.65	0.62	0.60	0.59



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Intensity data(cd)									Appendix Page: 17 Total:19
C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	8269.88	8276.06	8240.63	8177.06	8105.06	8005.50	7868.25	7693.88	7468.88
45.0	8296.88	8272.69	8214.19	8129.81	8018.44	7897.50	7719.19	7462.69	7164.56
90.0	8271.00	8226.00	8141.06	8038.69	7897.50	7755.19	7539.19	7236.56	6901.31
135.0	8275.50	8249.63	8178.19	8070.75	7967.25	7832.25	7653.94	7436.81	7163.44
180.0	8269.88	8217.00	8137.69	8039.81	7918.31	7788.38	7620.19	7320.38	7009.31
225.0	8296.88	8278.31	8227.69	8129.81	8007.75	7885.69	7710.19	7460.44	7170.75
270.0	8271.00	8273.81	8231.06	8146.69	8048.81	7935.19	7754.63	7551.00	7282.13
315.0	8275.50	8255.81	8209.69	8127.00	8025.75	7914.94	7764.75	7504.88	7222.50
360.0	8269.88	8276.06	8240.63	8177.06	8105.06	8005.50	7868.25	7693.88	7468.88
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	7086.94	6711.75	6265.69	5685.19	5040.00	4443.19	3767.06	3119.06	2613.94
45.0	6759.00	6252.19	5733.00	5236.31	4420.69	3835.13	3348.56	2720.81	2238.75
90.0	6492.94	5884.88	5341.50	4766.63	4037.63	3480.19	2964.94	2458.13	2044.69
135.0	6795.56	6337.13	5852.25	5310.56	4596.75	4025.81	3540.94	2841.75	2396.81
180.0	6645.38	6101.44	5605.31	5052.94	4410.00	3786.19	3259.13	2725.31	2272.50
225.0	6826.50	6297.19	5791.50	5230.13	4494.38	3912.19	3358.69	2783.81	2298.94
270.0	6864.19	6447.94	5958.56	5414.63	4683.94	4084.31	3498.75	2889.00	2370.94
315.0	6876.56	6343.88	5837.63	5273.44	4610.81	3940.31	3369.38	2777.06	2327.06
360.0	7086.94	6711.75	6265.69	5685.19	5040.00	4443.19	3767.06	3119.06	2613.94
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2158.31	1850.06	1595.25	1413.00	1298.25	1215.00	1142.44	1100.81	1065.94
45.0	1949.63	1624.50	1427.06	1316.25	1204.88	1144.13	1095.75	1049.06	1018.69
90.0	1752.75	1514.81	1369.69	1246.50	1164.94	1118.08	1071.28	1033.31	1005.47
135.0	2089.69	1737.00	1501.31	1375.31	1244.25	1163.25	1118.81	1068.19	1032.75
180.0	1941.75	1650.94	1460.81	1310.06	1207.13	1117.80	1088.61	1041.08	1010.42
225.0	1960.88	1670.63	1486.69	1341.56	1240.31	1164.94	1115.83	1072.52	1040.40
270.0	2006.44	1701.00	1485.00	1351.13	1245.38	1179.00	1126.13	1083.38	1050.19
315.0	1938.38	1650.38	1463.63	1315.69	1215.56	1119.09	1103.46	1059.41	1030.16
360.0	2158.31	1850.06	1595.25	1413.00	1298.25	1215.00	1142.44	1100.81	1065.94
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1029.38	1002.38	978.75	959.06	934.88	914.06	875.81	796.50	717.75
45.0	992.81	964.13	943.31	923.63	900.56	875.81	829.13	749.25	657.00
90.0	982.01	953.72	933.24	914.74	892.35	860.34	803.87	711.79	627.36
135.0	1003.50	970.88	948.94	929.81	906.19	873.56	817.88	726.19	642.94
180.0	984.38	955.69	931.78	912.43	883.80	828.62	761.68	673.37	586.69
225.0	1013.40	982.13	959.79	939.54	917.61	889.26	843.02	764.33	671.74
270.0	1024.31	990.56	966.38	948.94	923.63	905.63	883.13	818.44	736.88
315.0	1004.18	976.22	952.48	933.30	912.88	885.38	837.39	750.26	679.28
360.0	1029.38	1002.38	978.75	959.06	934.88	914.06	875.81	796.50	717.75
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	643.50	529.31	424.13	331.31	285.19	153.00	85.84	48.83	38.25
45.0	570.94	469.13	381.38	285.75	188.78	116.72	62.10	39.88	34.26
90.0	537.69	424.69	346.28	250.26	151.99	96.53	54.79	35.04	31.05
135.0	556.88	457.31	357.75	284.63	177.30	108.34	58.16	37.86	33.30
180.0	487.01	387.06	300.49	219.32	127.86	72.23	42.36	31.78	27.00
225.0	582.75	480.66	389.25	288.73	195.92	122.40	66.54	34.31	28.46
270.0	663.75	551.81	458.44	363.94	284.63	167.46	93.99	48.77	32.96
315.0	581.63	468.00	387.96	287.33	184.11	121.67	68.68	38.19	32.40
360.0	643.50	529.31	424.13	331.31	285.19	153.00	85.84	48.83	38.25

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	30.38	23.74	20.76	18.17	14.91	14.40	14.06	13.78	13.50
45.0	27.84	22.50	20.25	17.33	14.79	14.40	14.01	13.73	13.44
90.0	25.37	20.53	18.62	15.92	14.68	14.34	14.01	13.56	13.39
135.0	26.94	21.94	19.63	16.82	14.68	14.29	14.01	13.73	13.44
180.0	22.11	19.18	17.10	14.85	14.40	14.06	13.78	13.50	13.28
225.0	23.01	17.27	15.92	14.91	14.12	13.73	13.44	13.22	13.05
270.0	27.28	19.69	16.71	15.47	14.06	13.67	13.44	13.11	12.88
315.0	25.09	19.74	17.44	15.58	14.29	13.89	13.61	13.28	13.11
360.0	30.38	23.74	20.76	18.17	14.91	14.40	14.06	13.78	13.50
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	13.28	13.05	12.83	12.66	12.49	12.32	12.21	12.04	11.93
45.0	13.28	13.05	12.88	12.71	12.54	12.38	12.21	12.09	11.93
90.0	13.16	12.99	12.83	12.66	12.49	12.38	12.21	12.09	11.93
135.0	13.22	12.99	12.88	12.66	12.54	12.38	12.21	12.09	11.98
180.0	13.05	12.88	12.71	12.49	12.32	12.15	12.04	11.93	11.81
225.0	12.83	12.66	12.49	12.32	12.15	12.04	11.87	11.76	11.70
270.0	12.71	12.54	12.38	12.26	12.09	11.98	11.87	11.70	11.64
315.0	12.83	12.66	12.49	12.32	12.21	12.04	11.93	11.76	11.64
360.0	13.28	13.05	12.83	12.66	12.49	12.32	12.21	12.04	11.93
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.81	11.70	11.59	11.48	11.42	11.36	11.25	11.19	11.08
45.0	11.81	11.70	11.64	11.53	11.42	11.36	11.25	11.19	11.14
90.0	11.87	11.70	11.64	11.53	11.48	11.36	11.25	11.19	11.14
135.0	11.87	11.76	11.70	11.59	11.48	11.36	11.31	11.19	11.14
180.0	11.70	11.64	11.53	11.42	11.36	11.31	11.19	11.14	11.08
225.0	11.59	11.48	11.42	11.36	11.25	11.19	11.14	11.08	11.03
270.0	11.53	11.48	11.36	11.31	11.25	11.19	11.08	11.03	10.97
315.0	11.59	11.53	11.42	11.36	11.25	11.19	11.14	11.03	11.03
360.0	11.81	11.70	11.59	11.48	11.42	11.36	11.25	11.19	11.08
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	11.03	11.03	10.91	10.91	10.86	10.80	10.74	10.69	10.69
45.0	11.08	11.03	10.97	10.91	10.86	10.80	10.80	10.74	10.69
90.0	11.03	10.91	10.91	10.86	10.80	10.80	10.69	10.69	10.63
135.0	11.08	11.03	10.97	10.91	10.80	10.80	10.74	10.69	10.69
180.0	11.03	10.97	10.86	10.86	10.80	10.80	10.74	10.69	10.63
225.0	10.97	10.97	10.86	10.86	10.80	10.74	10.74	10.69	10.63
270.0	10.91	10.91	10.86	10.80	10.74	10.69	10.69	10.69	10.63
315.0	10.91	10.91	10.86	10.80	10.74	10.69	10.69	10.69	10.63
360.0	11.03	11.03	10.91	10.91	10.86	10.80	10.74	10.69	10.69
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.69	10.63	10.58	10.58	10.58	10.52	10.46	10.46	10.46
45.0	10.69	10.63	10.63	10.58	10.52	10.46	10.46	10.46	10.41
90.0	10.63	10.63	10.58	10.52	10.52	10.46	10.46	10.41	10.41
135.0	10.63	10.63	10.58	10.58	10.63	10.69	10.63	10.46	10.41
180.0	10.63	10.63	10.63	10.69	10.86	11.03	10.41	10.41	10.41
225.0	10.63	10.63	10.58	10.63	10.58	10.58	10.63	10.46	10.46
270.0	10.58	10.58	10.52	10.52	10.52	10.46	10.41	10.46	10.41
315.0	10.58	10.58	10.58	10.52	10.52	10.46	10.46	10.41	10.41
360.0	10.69	10.63	10.58	10.58	10.58	10.52	10.46	10.46	10.46

Intensity data(cd)

Appendix Page: 19 Total:19

C/ γ (°)	90.0
0.0	10.41
45.0	10.41
90.0	10.41
135.0	10.41
180.0	10.41
225.0	10.46
270.0	10.41
315.0	10.41
360.0	10.41