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NATA

LumCAT: 1709-M	
Luminaire: 92.70.124.00	
Report No: NATA0100	Voltage(V): 33.9000
Test No: GC2019021809	Current(A): 0.3000
LampCAT: BRIDGELUX V10B	Power (W): 10.1700
Lamp flux(lm): 1497.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 39	Width(mm): 39
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 1342.62
Efficiency(%): 89.69%
Lumens(lm)/Power(W): 132.13
Central intensity(cd): 5093.649
Maximum intensity(cd): 5093.649
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=17.3
 [C90/270]Total=17.3
Field angle(10%Imax): [C0/180]Total=60.0
 [C90/270]Total=60.0
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(%): 89.77%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.701%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5093.648	1.219	1.219	.081%	.091%
1.0	5053.500	9.672	10.89	.646%	.811%
2.0	4942.055	18.914	29.804	1.263%	2.220%
3.0	4738.008	27.192	56.996	1.816%	4.245%
4.0	4442.695	33.985	90.981	2.270%	6.776%
5.0	4089.094	39.082	130.063	2.611%	9.687%
6.0	3660.328	41.957	172.02	2.803%	12.812%
7.0	3207.305	42.863	214.883	2.863%	16.005%
8.0	2815.313	42.967	257.85	2.870%	19.205%
9.0	2411.016	41.360	299.211	2.763%	22.286%
10.0	2050.734	39.051	338.262	2.609%	25.194%
11.0	1779.609	37.237	375.499	2.487%	27.968%
12.0	1534.008	34.975	410.474	2.336%	30.572%
13.0	1322.473	32.623	443.097	2.179%	33.002%
14.0	1168.221	30.992	474.089	2.070%	35.311%
15.0	1056.417	29.984	504.073	2.003%	37.544%
16.0	967.275	29.237	533.31	1.953%	39.721%
17.0	896.850	28.755	562.065	1.921%	41.863%
18.0	834.434	28.277	590.341	1.889%	43.969%
19.0	784.322	28.002	618.343	1.871%	46.055%
20.0	740.974	27.791	646.134	1.856%	48.125%
21.0	702.837	27.621	673.755	1.845%	50.182%
22.0	669.994	27.523	701.278	1.839%	52.232%
23.0	641.862	27.502	728.781	1.837%	54.280%
24.0	614.545	27.411	756.191	1.831%	56.322%
25.0	589.282	27.310	783.501	1.824%	58.356%
26.0	569.545	27.379	810.881	1.829%	60.395%
27.0	550.835	27.423	838.304	1.832%	62.438%
28.0	534.544	27.520	865.824	1.838%	64.487%
29.0	521.191	27.709	893.533	1.851%	66.551%
30.0	509.316	27.926	921.459	1.865%	68.631%
31.0	498.220	28.139	949.598	1.880%	70.727%
32.0	488.180	28.369	977.967	1.895%	72.840%
33.0	479.313	28.627	1006.594	1.912%	74.972%
34.0	469.730	28.805	1035.398	1.924%	77.117%
35.0	460.863	28.988	1064.386	1.936%	79.277%
36.0	451.631	29.111	1093.497	1.945%	81.445%
37.0	439.587	29.011	1122.508	1.938%	83.605%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	422.332	28.513	1151.021	1.905%	85.729%
39.0	396.492	27.363	1178.384	1.828%	87.767%
40.0	363.670	25.635	1204.018	1.712%	89.676%
41.0	328.219	23.613	1227.632	1.577%	91.435%
42.0	283.830	20.827	1248.459	1.391%	92.986%
43.0	237.389	17.754	1266.213	1.186%	94.309%
44.0	200.377	15.264	1281.477	1.020%	95.446%
45.0	153.120	11.873	1293.35	.793%	96.330%
46.0	111.544	8.799	1302.149	.588%	96.985%
47.0	76.795	6.159	1308.308	.411%	97.444%
48.0	51.089	4.163	1312.471	.278%	97.754%
49.0	32.421	2.683	1315.155	.179%	97.954%
50.0	22.591	1.898	1317.052	.127%	98.095%
51.0	18.190	1.550	1318.602	.104%	98.211%
52.0	14.773	1.277	1319.879	.085%	98.306%
53.0	11.988	1.050	1320.929	.070%	98.384%
54.0	10.188	0.904	1321.833	.060%	98.451%
55.0	9.288	0.834	1322.667	.056%	98.514%
56.0	8.670	0.788	1323.455	.053%	98.572%
57.0	8.184	0.753	1324.208	.050%	98.628%
58.0	7.826	0.728	1324.936	.049%	98.683%
59.0	7.552	0.710	1325.646	.047%	98.735%
60.0	7.291	0.692	1326.338	.046%	98.787%
61.0	7.059	0.677	1327.015	.045%	98.837%
62.0	6.848	0.663	1327.678	.044%	98.887%
63.0	6.645	0.649	1328.328	.043%	98.935%
64.0	6.356	0.626	1328.954	.042%	98.982%
65.0	6.138	0.610	1329.564	.041%	99.027%
66.0	5.991	0.600	1330.164	.040%	99.072%
67.0	5.829	0.588	1330.753	.039%	99.116%
68.0	5.674	0.577	1331.33	.039%	99.159%
69.0	5.541	0.567	1331.897	.038%	99.201%
70.0	5.414	0.558	1332.455	.037%	99.243%
71.0	5.288	0.548	1333.003	.037%	99.283%
72.0	5.203	0.543	1333.546	.036%	99.324%
73.0	5.133	0.538	1334.084	.036%	99.364%
74.0	5.063	0.534	1334.618	.036%	99.404%
75.0	4.999	0.530	1335.147	.035%	99.443%

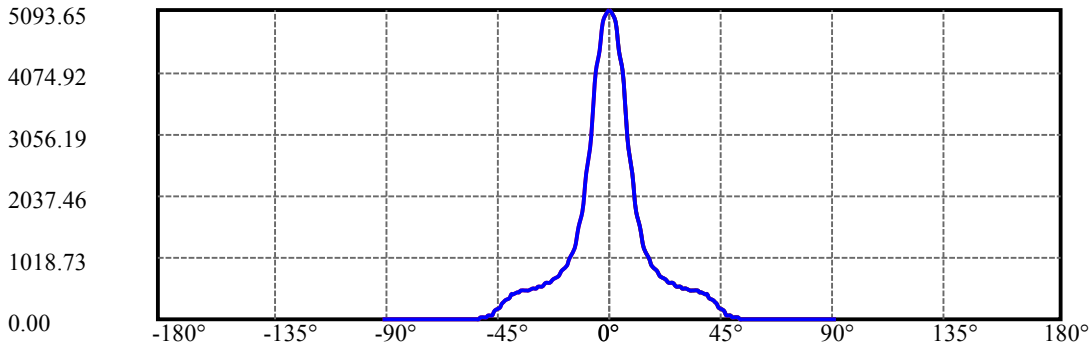
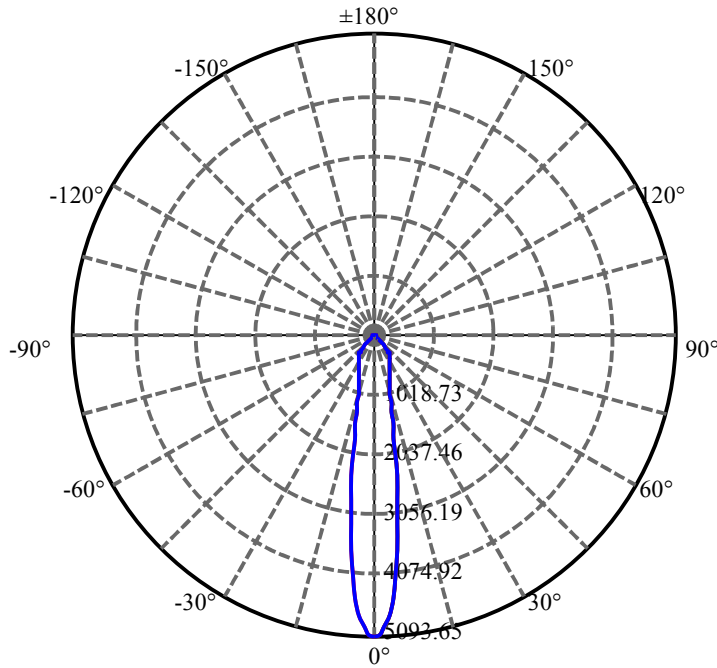
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	4.964	0.528	1335.675	.035%	99.482%
77.0	4.915	0.525	1336.2	.035%	99.522%
78.0	4.873	0.523	1336.723	.035%	99.560%
79.0	4.830	0.520	1337.243	.035%	99.599%
80.0	4.795	0.518	1337.761	.035%	99.638%
81.0	4.795	0.519	1338.28	.035%	99.676%
82.0	4.753	0.516	1338.796	.034%	99.715%
83.0	4.753	0.517	1339.314	.035%	99.753%
84.0	4.704	0.513	1339.827	.034%	99.792%
85.0	4.676	0.511	1340.338	.034%	99.830%
86.0	4.669	0.511	1340.848	.034%	99.868%
87.0	4.648	0.509	1341.357	.034%	99.906%
88.0	4.634	0.508	1341.865	.034%	99.943%
89.0	4.620	0.507	1342.372	.034%	99.981%
90.0	4.613	0.253	1342.625	.017%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	921.46	61.55%	68.63%
0-40	1204.02	80.43%	89.68%
0-60	1326.34	88.60%	98.79%
0-90	1342.37	89.67%	99.98%
0-120	1342.37	89.67%	99.98%
0-180	1342.62	89.69%	100.00%
60-90	16.73	1.12%	1.25%
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%
0-35.33	1074.10	71.75%	80.00%

ZONAL LUMEN SUMMARY

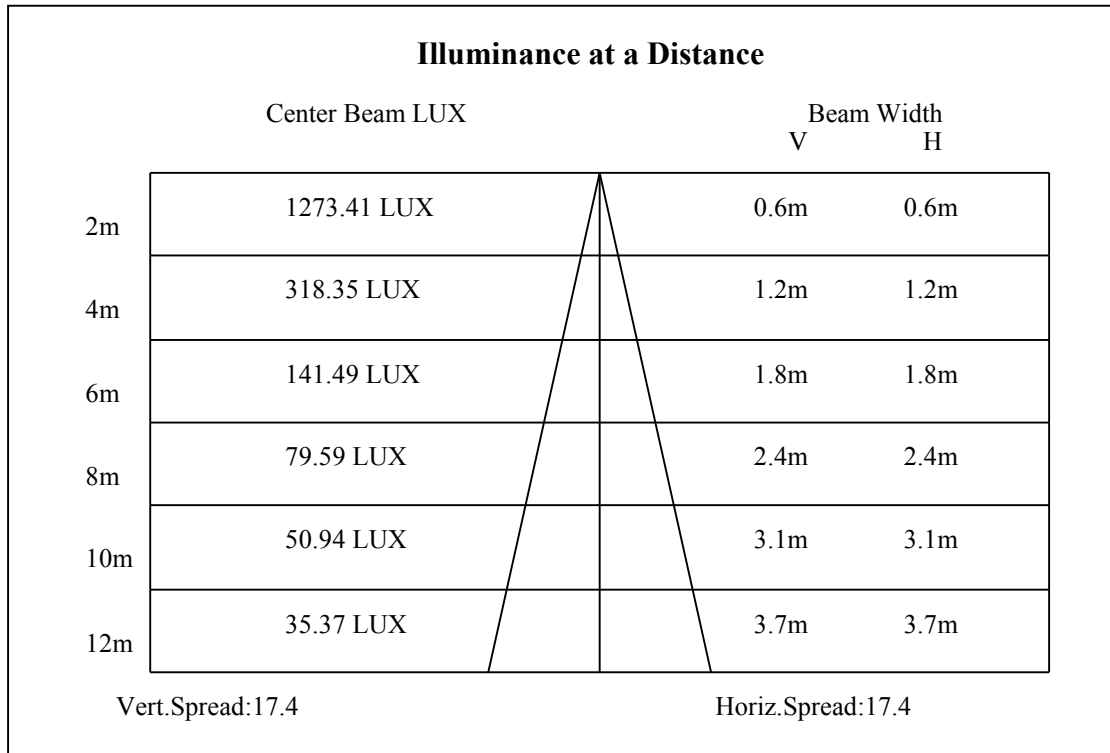
0-10	338.26
10-20	307.87
20-30	275.32
30-40	282.56
40-50	113.03
50-60	9.29
60-70	6.12
70-80	5.31
80-90	4.61
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

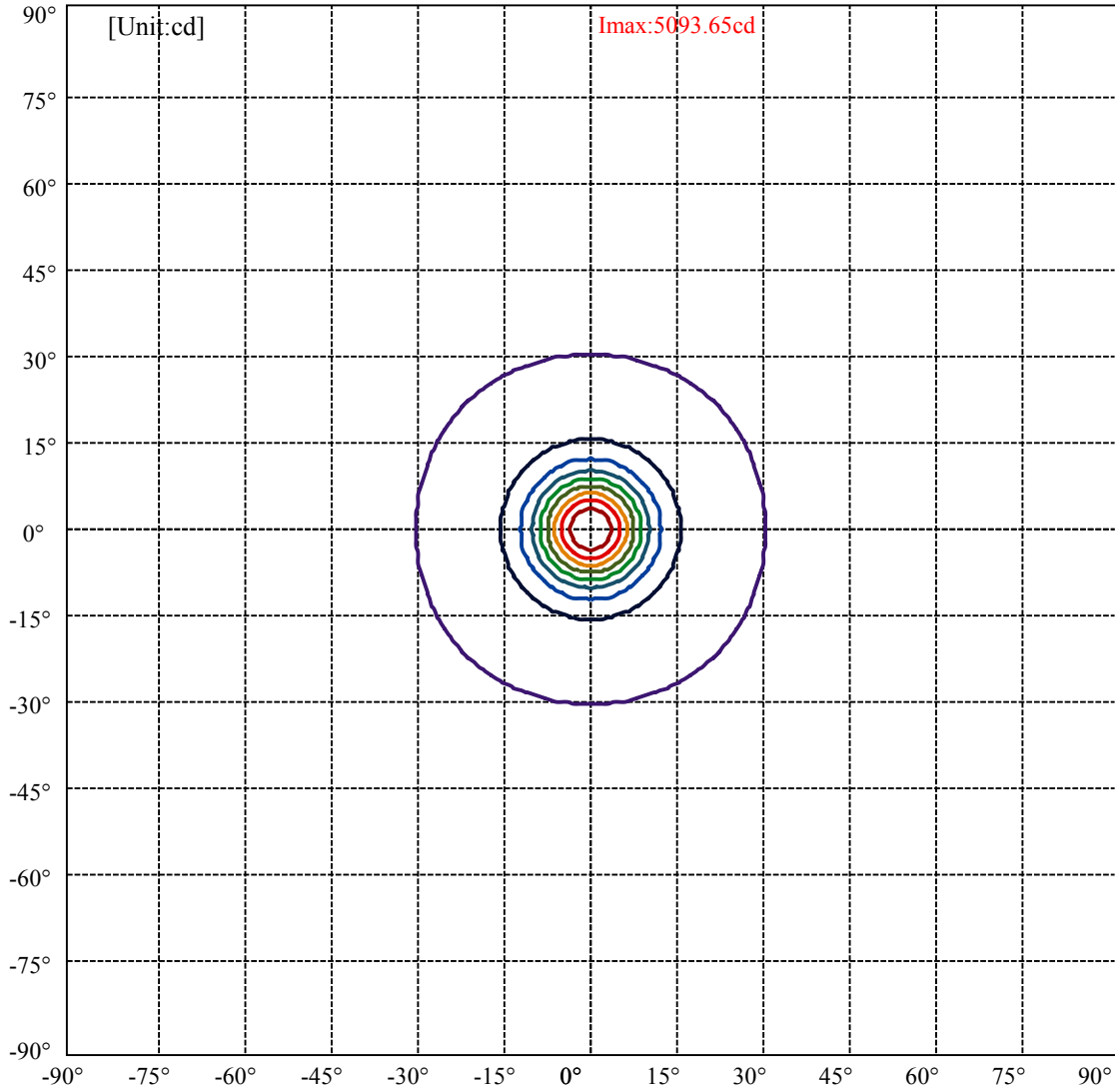


C0(Max): —————
C0/C180: —————
C90/C270: —————

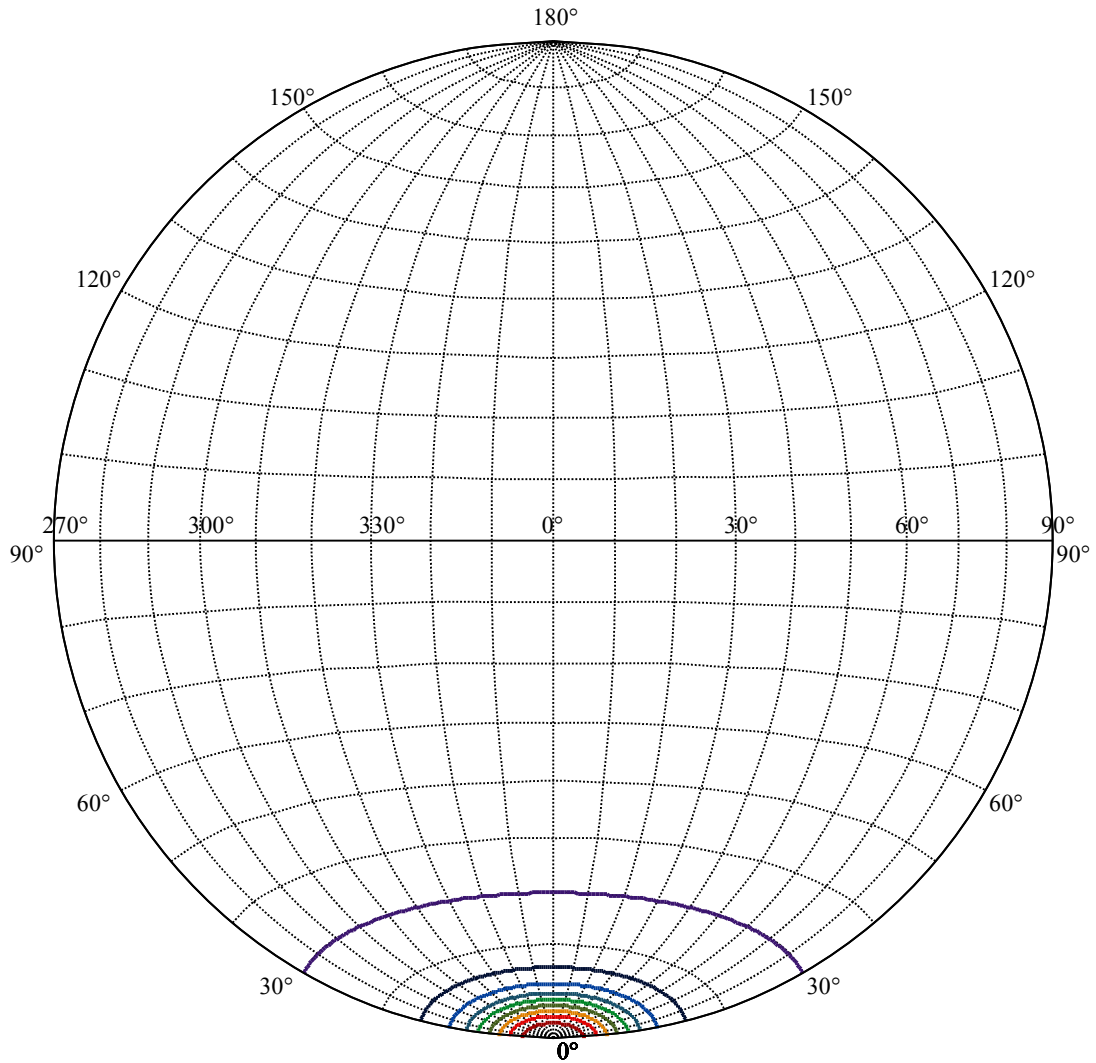
Field angle(10%Imax):C0/180Left:30.0 Right:30.0
:C90/270Left:30.0 Right:30.0

Beam Angle(50%Imax):C0/180Left:8.7 Right:8.7
:C90/270Left:8.7 Right:8.7





(10%Imax) 509.365	—
(20%Imax) 1018.73	—
(30%Imax) 1528.09	—
(40%Imax) 2037.46	—
(50%Imax) 2546.82	—
(60%Imax) 3056.19	—
(70%Imax) 3565.55	—
(80%Imax) 4074.92	—
(90%Imax) 4584.28	—



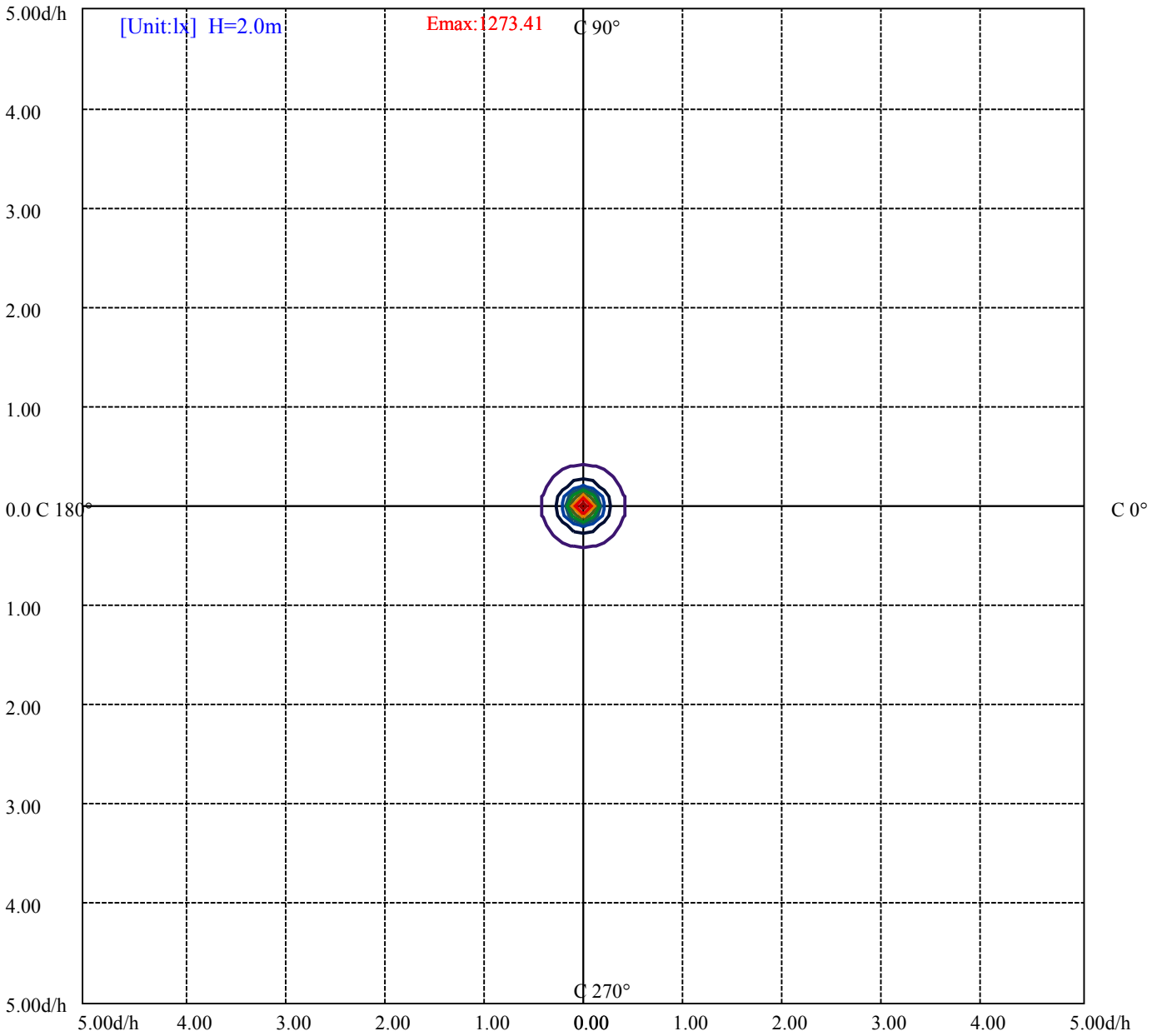
House

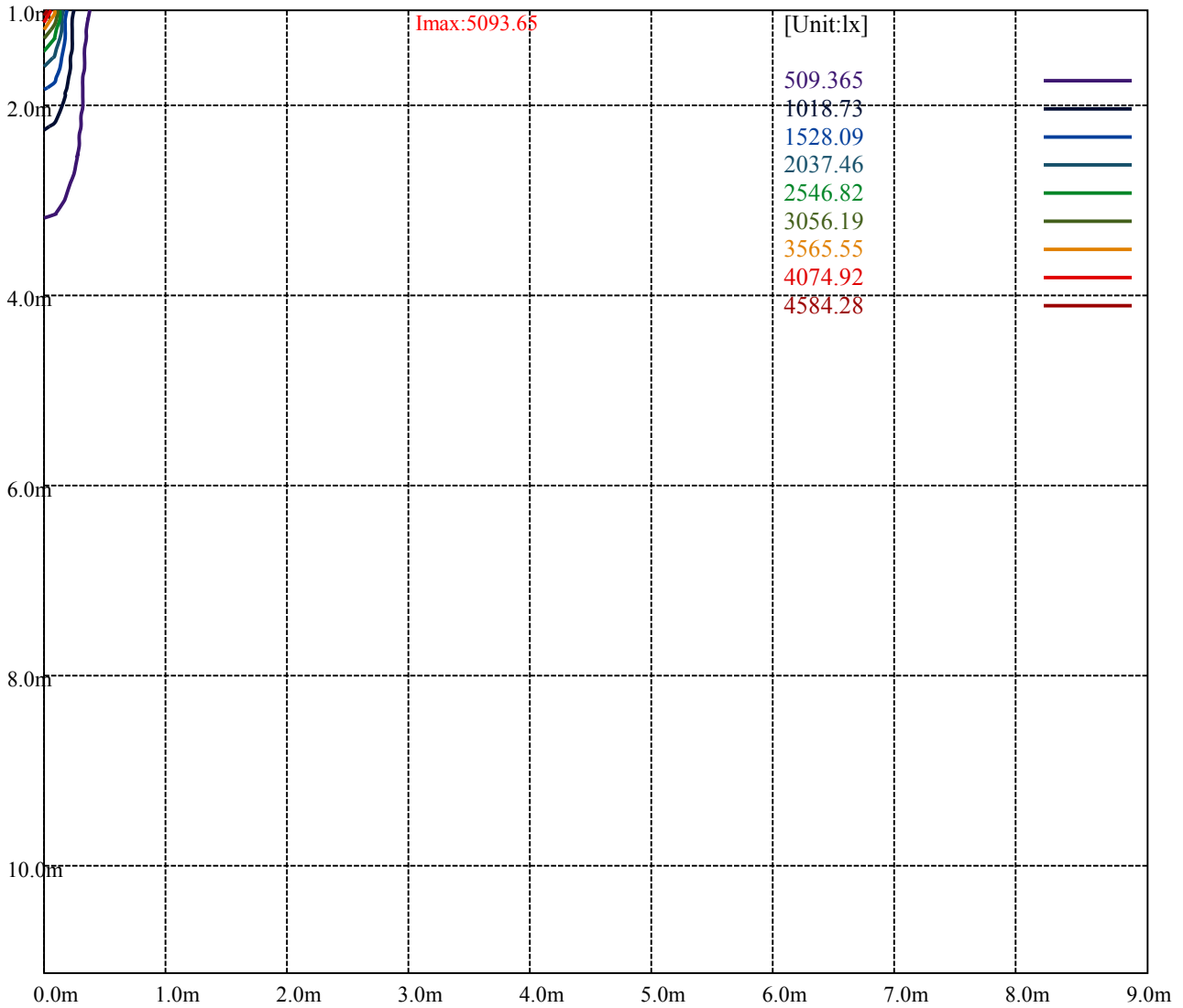
[Unit:cd]

Road

Imax:5093.65

(10%Imax) 509.365	—
(20%Imax) 1018.73	—
(30%Imax) 1528.09	—
(40%Imax) 2037.46	—
(50%Imax) 2546.82	—
(60%Imax) 3056.19	—
(70%Imax) 3565.55	—
(80%Imax) 4074.92	—
(90%Imax) 4584.28	—





Luminance Table

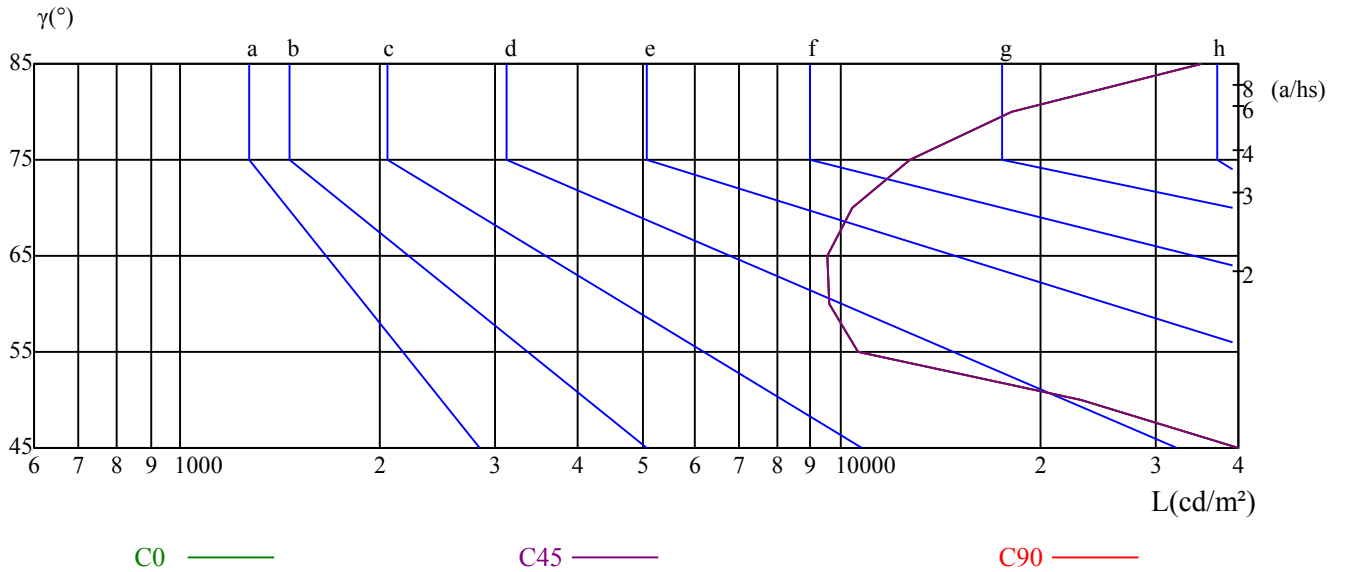
γ	45	50	55	60	65	70	75	80	85
C0	142369	23107	10647	9588	9549	10407	12699	18156	35272
C45	142369	23107	10647	9588	9549	10407	12699	18156	35272
C90	142369	23107	10647	9588	9549	10407	12699	18156	35272

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9549	9549	9549	12699	12699	12699	35272	35272	35272

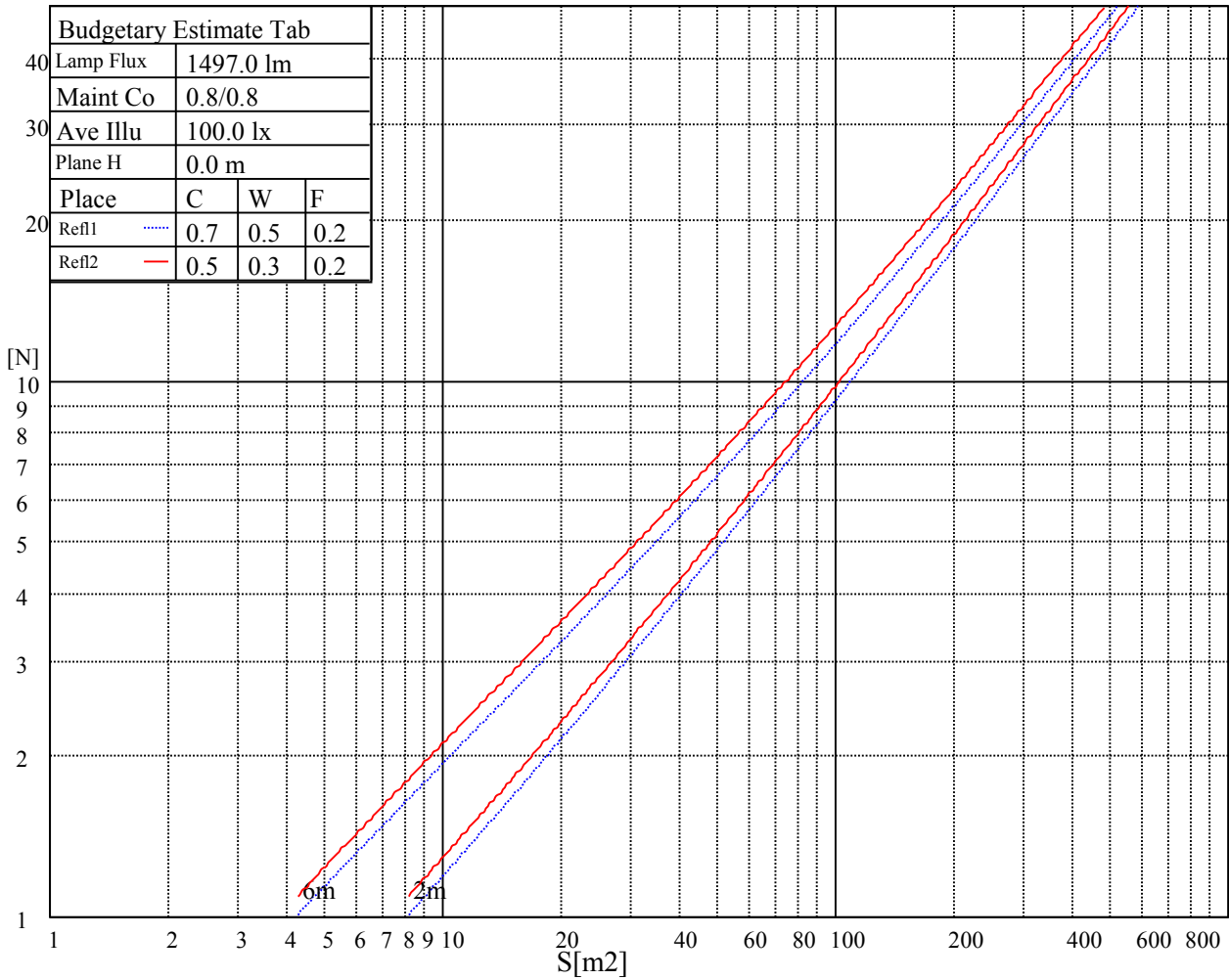
Glare Table

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

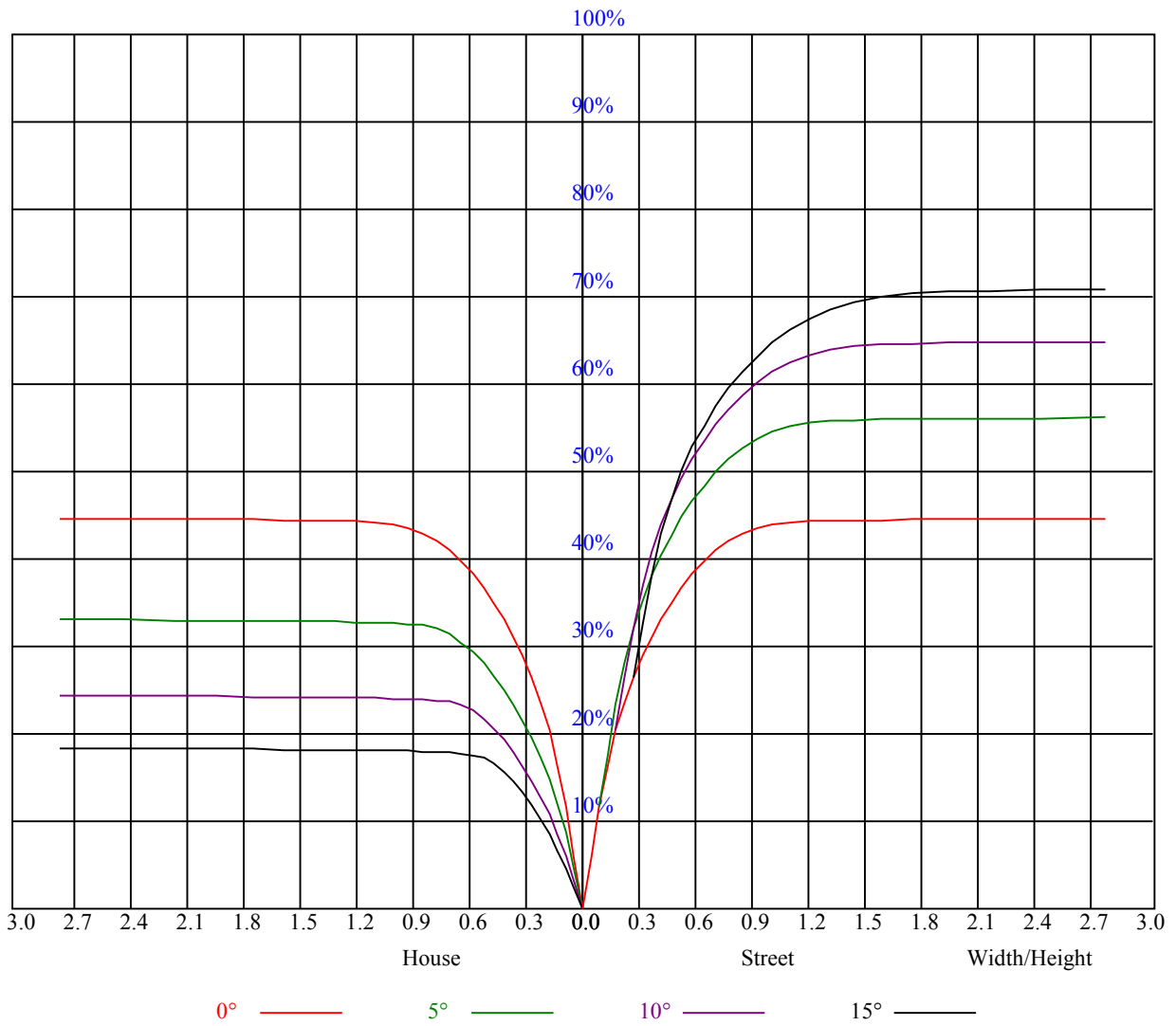
Luminance Limiting Curve



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	8.53	9.55	8.89	9.86	10.18	8.54	9.56	8.91	9.87	10.19
	3H	10.58	11.48	10.97	11.81	12.18	10.58	11.47	10.96	11.80	12.17
	4H	11.78	12.61	12.19	12.96	13.35	11.76	12.59	12.17	12.94	13.33
	6H	13.27	14.03	13.69	14.40	14.80	13.22	13.98	13.64	14.35	14.75
	8H	14.16	14.87	14.59	15.26	15.67	14.10	14.81	14.53	15.20	15.61
	12H	15.68	16.36	16.12	16.75	17.18	15.61	16.29	16.05	16.68	17.11
4H	2H	9.06	9.89	9.46	10.24	10.63	9.07	9.90	9.47	10.25	10.64
	3H	11.44	12.12	11.86	12.53	12.93	11.44	12.11	11.85	12.52	12.93
	4H	12.86	13.46	13.30	13.89	14.34	12.85	13.45	13.28	13.87	14.32
	6H	14.57	15.08	15.04	15.53	16.01	14.53	15.04	15.00	15.49	15.97
	8H	15.59	16.07	16.07	16.52	17.00	15.54	16.02	16.01	16.47	16.94
	12H	17.08	17.50	17.57	17.98	18.46	17.02	17.44	17.51	17.92	18.40
8H	4H	13.43	13.91	13.90	14.36	14.83	13.41	13.89	13.89	14.34	14.82
	6H	15.43	15.82	15.94	16.32	16.81	15.40	15.78	15.91	16.29	16.77
	8H	16.66	17.00	17.19	17.52	18.02	16.61	16.96	17.15	17.48	17.97
	12H	18.35	18.65	18.87	19.15	19.73	18.30	18.60	18.83	19.10	19.68
12H	4H	13.58	14.00	14.07	14.48	14.96	13.57	13.98	14.06	14.47	14.95
	6H	16.00	16.05	16.24	16.52	17.07	15.97	16.02	16.21	16.49	17.04
	8H	17.06	17.36	17.58	17.86	18.44	17.02	17.32	17.54	17.82	18.40
Variation with the observer position at spacings:											
S = 1.0H	3.4/-11.3					3.4/-11.3					
S = 1.5H	5.0/-9.4					5.0/-9.4					
S = 2.0H	6.8/-8.1					6.8/-8.1					
Standard tables:	BK0					BK0					
Uncorrected UGR	6.8					6.8					



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	1.07	1.07	1.07	1.04	1.04	1.04	1.00	1.00	1.00	0.95	0.95	0.95	0.92	0.92	0.92	0.90
1	1.00	0.97	0.95	0.98	0.96	0.94	0.94	0.92	0.91	0.91	0.89	0.88	0.88	0.87	0.86	0.84
2	0.93	0.90	0.87	0.92	0.88	0.86	0.89	0.86	0.84	0.86	0.84	0.82	0.83	0.82	0.80	0.79
3	0.87	0.83	0.80	0.86	0.82	0.79	0.84	0.80	0.78	0.82	0.79	0.77	0.80	0.77	0.75	0.74
4	0.82	0.77	0.74	0.81	0.77	0.73	0.79	0.75	0.73	0.77	0.74	0.72	0.76	0.73	0.71	0.70
5	0.77	0.73	0.69	0.77	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.67	0.66
6	0.73	0.68	0.65	0.73	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.62
7	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59
8	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.56
9	0.63	0.58	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.53
10	0.60	0.56	0.52	0.60	0.56	0.52	0.59	0.55	0.52	0.59	0.55	0.52	0.58	0.55	0.52	0.51



NATA 1709-M

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	5093.44	5116.50	5081.06	4942.13	4753.69	4484.25	4040.44	3631.50	3221.44
45.0	5097.94	5057.44	4931.44	4740.19	4433.63	4026.38	3558.38	3138.19	2743.88
90.0	5070.38	4936.50	4735.13	4417.88	3989.25	3562.31	3135.94	2636.44	2274.75
135.0	5112.56	5027.63	4841.44	4556.25	4207.50	3742.31	3255.75	2840.63	2465.44
180.0	5093.44	4969.69	4784.06	4521.38	4073.63	3709.69	3227.63	2770.31	2399.63
225.0	5098.50	5067.00	4971.94	4752.56	4485.94	4141.13	3745.69	3230.44	2837.81
270.0	5070.38	5118.75	5101.31	5005.13	4842.56	4567.50	4193.44	3800.81	3385.69
315.0	5112.56	5134.50	5090.06	4968.56	4755.38	4479.19	4125.38	3610.13	3193.88
360.0	5093.44	5116.50	5081.06	4942.13	4753.69	4484.25	4040.44	3631.50	3221.44
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2742.75	2390.63	2072.25	1756.69	1498.50	1315.13	1157.06	1050.75	959.63
45.0	2299.50	1983.94	1709.44	1504.13	1255.50	1126.69	1038.94	932.06	870.19
90.0	1952.44	1614.94	1404.00	1199.81	1099.01	995.18	923.29	849.77	805.44
135.0	2051.44	1763.44	1521.56	1307.81	1149.19	1045.13	955.13	883.13	828.56
180.0	2066.63	1679.63	1480.50	1299.38	1115.27	1029.71	950.74	885.94	818.10
225.0	2477.25	2076.19	1794.94	1557.00	1346.06	1112.01	1074.15	978.08	908.44
270.0	2893.50	2534.06	2207.25	1879.31	1607.63	1412.44	1240.88	1109.25	1018.13
315.0	2804.63	2363.06	2046.94	1767.94	1508.63	1309.50	1111.16	1049.23	966.32
360.0	2742.75	2390.63	2072.25	1756.69	1498.50	1315.13	1157.06	1050.75	959.63
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	888.75	836.44	784.13	738.00	703.69	673.31	640.13	614.81	591.75
45.0	811.69	768.94	726.75	699.75	663.19	637.88	614.25	586.69	568.13
90.0	754.65	708.53	681.08	650.14	622.01	598.67	576.96	553.73	539.33
135.0	775.13	734.06	695.81	662.63	635.63	607.50	581.06	560.81	544.50
180.0	771.86	731.48	693.06	660.54	634.44	606.99	581.96	562.67	544.33
225.0	844.14	789.13	747.84	708.30	674.21	646.88	621.11	592.14	572.91
270.0	937.13	875.81	815.63	765.00	727.31	694.13	658.13	631.13	606.38
315.0	892.13	830.19	783.51	738.34	699.47	669.54	642.77	612.28	589.05
360.0	888.75	836.44	784.13	738.00	703.69	673.31	640.13	614.81	591.75
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	568.13	548.44	533.81	519.75	507.94	498.38	488.25	478.69	469.69
45.0	552.38	534.94	522.56	511.88	500.06	491.06	483.19	471.94	464.06
90.0	526.61	514.07	503.10	493.76	483.69	474.13	466.26	457.37	449.61
135.0	527.06	514.13	504.56	493.88	483.19	474.75	465.75	456.75	448.31
180.0	530.72	516.38	503.89	493.82	484.03	472.05	463.39	455.57	444.99
225.0	556.20	540.28	525.88	514.97	503.72	493.54	484.76	474.75	466.26
270.0	577.69	560.25	545.06	528.75	516.38	506.81	497.25	486.00	477.00
315.0	567.90	547.88	530.66	517.73	506.76	494.72	485.66	476.78	466.99
360.0	568.13	548.44	533.81	519.75	507.94	498.38	488.25	478.69	469.69
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	460.69	452.81	444.94	428.63	403.31	371.81	326.25	284.63	259.09
45.0	456.19	446.63	429.19	401.06	362.25	325.13	284.63	228.77	187.48
90.0	438.81	414.45	385.71	346.56	302.74	263.08	220.67	169.71	129.66
135.0	438.75	421.88	391.50	356.06	316.69	285.19	219.49	178.54	138.32
180.0	436.95	425.93	401.68	367.65	332.55	287.78	246.60	199.63	154.01
225.0	456.53	447.36	436.56	409.16	374.91	339.53	299.42	249.13	207.34
270.0	467.44	458.44	448.88	436.50	413.44	384.75	340.88	301.50	286.88
315.0	457.71	449.21	440.21	426.32	403.48	368.49	332.72	287.21	240.24
360.0	460.69	452.81	444.94	428.63	403.31	371.81	326.25	284.63	259.09

NATA 1709-M

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	192.83	145.74	107.78	69.58	43.65	26.38	21.38	17.72	13.78
45.0	142.48	101.08	68.18	41.57	24.08	20.87	17.61	13.89	11.03
90.0	94.84	63.51	34.93	23.34	20.42	16.59	13.44	11.08	10.01
135.0	97.99	63.06	39.94	25.48	20.08	17.27	14.18	11.14	9.56
180.0	115.09	78.24	47.76	30.66	21.49	18.00	14.91	12.04	9.96
225.0	167.01	117.84	81.96	53.38	29.59	22.11	18.84	14.51	11.81
270.0	216.90	166.89	127.07	91.46	53.72	32.91	23.23	19.41	15.30
315.0	197.83	155.98	106.76	73.24	46.35	26.61	21.94	18.39	14.46
360.0	192.83	145.74	107.78	69.58	43.65	26.38	21.38	17.72	13.78
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	10.58	9.45	8.94	8.44	8.16	7.88	7.54	7.31	7.03
45.0	10.01	9.45	8.49	7.93	7.65	7.43	7.14	6.98	6.75
90.0	9.17	8.66	8.33	8.04	7.76	7.43	7.14	6.92	6.69
135.0	9.11	8.61	8.33	8.04	7.82	7.54	7.20	6.92	6.75
180.0	9.45	9.11	8.16	7.82	7.59	7.31	7.14	6.98	6.75
225.0	9.62	8.89	8.49	8.21	7.82	7.65	7.43	7.14	6.98
270.0	12.21	10.07	9.17	8.33	7.99	7.65	7.43	7.14	6.98
315.0	11.36	10.07	9.45	8.66	7.82	7.54	7.31	7.09	6.86
360.0	10.58	9.45	8.94	8.44	8.16	7.88	7.54	7.31	7.03
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	6.86	6.58	6.41	6.24	6.08	5.91	5.79	5.57	5.40
45.0	6.58	6.30	6.08	5.96	5.79	5.63	5.51	5.40	5.23
90.0	6.47	6.19	5.96	5.79	5.68	5.51	5.40	5.29	5.18
135.0	6.58	6.08	5.91	5.79	5.63	5.46	5.34	5.23	5.12
180.0	6.53	6.13	5.91	5.79	5.63	5.46	5.34	5.29	5.23
225.0	6.75	6.58	6.19	6.02	5.85	5.74	5.57	5.40	5.34
270.0	6.75	6.53	6.36	6.19	6.02	5.91	5.74	5.63	5.46
315.0	6.64	6.47	6.30	6.13	5.96	5.79	5.63	5.51	5.34
360.0	6.86	6.58	6.41	6.24	6.08	5.91	5.79	5.57	5.40
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.29	5.18	5.12	5.01	5.01	4.89	4.89	4.84	4.78
45.0	5.18	5.12	5.06	5.01	5.01	4.95	4.84	4.84	4.84
90.0	5.12	5.06	5.01	4.95	4.95	4.89	4.84	4.84	4.84
135.0	5.06	5.01	4.95	4.89	4.89	4.84	4.84	4.78	4.73
180.0	5.12	5.06	5.01	4.95	4.89	4.89	4.84	4.78	4.73
225.0	5.23	5.18	5.06	5.06	4.95	4.89	4.89	4.84	4.84
270.0	5.34	5.29	5.18	5.06	5.06	5.01	4.95	4.89	4.84
315.0	5.29	5.18	5.12	5.06	4.95	4.95	4.89	4.84	4.78
360.0	5.29	5.18	5.12	5.01	5.01	4.89	4.89	4.84	4.78
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.84	4.78	4.78	4.73	4.67	4.67	4.67	4.61	4.61
45.0	4.78	4.78	4.73	4.73	4.67	4.67	4.67	4.67	4.61
90.0	4.78	4.73	4.78	4.67	4.67	4.67	4.61	4.61	4.61
135.0	4.73	4.73	4.73	4.67	4.61	4.67	4.67	4.61	4.61
180.0	4.78	4.73	4.73	4.67	4.67	4.67	4.61	4.61	4.61
225.0	4.84	4.78	4.73	4.73	4.67	4.61	4.67	4.61	4.61
270.0	4.84	4.78	4.78	4.73	4.78	4.67	4.61	4.67	4.67
315.0	4.78	4.73	4.78	4.73	4.67	4.73	4.67	4.67	4.61
360.0	4.84	4.78	4.78	4.73	4.67	4.67	4.67	4.61	4.61

Intensity data(cd)

C/γ(°)	90.0
0.0	4.61
45.0	4.61
90.0	4.61
135.0	4.61
180.0	4.61
225.0	4.61
270.0	4.61
315.0	4.61
360.0	4.61