



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

LumCAT: 3-1546-A3
Luminaire: 99.02.73.172+92.76.365.00
Report No: NATA0100
Test No: GC2019011512
LampCAT: LUMINUS CLM-14-AC30
Lamp flux(lm): 3533.0
Number of Lamps: 1
Length(mm): 84
Phm Type: C

Voltage(V): 35.1000
Current(A): 0.7000
Power (W): 24.5700
PF: 0.0000
Ballast type: DC
Width(mm): 84
Height(mm): 0

Photometric Results

Lumens(lm): 3225.76
Efficiency(%): 91.30%
Lumens(lm)/Power(W): 131.39
Central intensity(cd): 11255.910
Maximum intensity(cd): 11255.980
Angle of maximum intensity: $C=0.0 \gamma=1.0$
Beam Angle(50%Imax): [C0/180]Total=26.0
[C90/270]Total=26.0
Field angle(10%Imax): [C0/180]Total=60.8
[C90/270]Total=60.8
Maximum s/h(1/2): C0_180=0.44 C90_270=0.44
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(%): 91.38%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.634%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	11255.906	2.693	2.693	.076%	.083%
1.0	11255.977	21.542	24.235	.610%	.751%
2.0	11170.055	42.749	66.984	1.210%	2.077%
3.0	11023.805	63.268	130.252	1.791%	4.038%
4.0	10794.938	82.576	212.829	2.337%	6.598%
5.0	10458.563	99.958	312.787	2.829%	9.697%
6.0	10017.563	114.828	427.615	3.250%	13.256%
7.0	9545.766	127.572	555.188	3.611%	17.211%
8.0	8980.805	137.064	692.251	3.880%	21.460%
9.0	8337.375	143.026	835.277	4.048%	25.894%
10.0	7689.094	146.419	981.696	4.144%	30.433%
11.0	7000.313	146.477	1128.172	4.146%	34.974%
12.0	6297.328	143.578	1271.75	4.064%	39.425%
13.0	5612.273	138.445	1410.195	3.919%	43.717%
14.0	4918.570	130.487	1540.682	3.693%	47.762%
15.0	4294.336	121.883	1662.565	3.450%	51.540%
16.0	3739.852	113.043	1775.608	3.200%	55.045%
17.0	3201.188	102.636	1878.244	2.905%	58.226%
18.0	2766.516	93.749	1971.993	2.654%	61.133%
19.0	2424.164	86.548	2058.541	2.450%	63.816%
20.0	2118.164	79.444	2137.985	2.249%	66.279%
21.0	1857.305	72.990	2210.975	2.066%	68.541%
22.0	1685.953	69.258	2280.234	1.960%	70.688%
23.0	1546.172	66.250	2346.484	1.875%	72.742%
24.0	1434.586	63.987	2410.471	1.811%	74.726%
25.0	1361.672	63.106	2473.577	1.786%	76.682%
26.0	1304.438	62.707	2536.284	1.775%	78.626%
27.0	1258.313	62.645	2598.929	1.773%	80.568%
28.0	1218.516	62.732	2661.662	1.776%	82.513%
29.0	1180.631	62.768	2724.43	1.777%	84.459%
30.0	1147.409	62.913	2787.342	1.781%	86.409%
31.0	1093.767	61.775	2849.118	1.749%	88.324%
32.0	1019.967	59.272	2908.39	1.678%	90.161%
33.0	924.715	55.229	2963.619	1.563%	91.874%
34.0	812.060	49.797	3013.416	1.409%	93.417%
35.0	665.156	41.838	3055.253	1.184%	94.714%
36.0	520.798	33.569	3088.822	.950%	95.755%
37.0	402.504	26.563	3115.386	.752%	96.578%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	268.313	18.115	3133.501	.513%	97.140%
39.0	163.069	11.254	3144.754	.319%	97.489%
40.0	105.427	7.431	3152.186	.210%	97.719%
41.0	54.696	3.935	3156.121	.111%	97.841%
42.0	35.325	2.592	3158.713	.073%	97.922%
43.0	29.032	2.171	3160.884	.061%	97.989%
44.0	23.576	1.796	3162.68	.051%	98.045%
45.0	20.355	1.578	3164.258	.045%	98.094%
46.0	18.176	1.434	3165.692	.041%	98.138%
47.0	16.566	1.329	3167.021	.038%	98.179%
48.0	16.151	1.316	3168.337	.037%	98.220%
49.0	15.877	1.314	3169.651	.037%	98.261%
50.0	15.638	1.314	3170.965	.037%	98.301%
51.0	15.405	1.313	3172.277	.037%	98.342%
52.0	15.223	1.315	3173.593	.037%	98.383%
53.0	15.047	1.318	3174.911	.037%	98.424%
54.0	14.864	1.319	3176.229	.037%	98.465%
55.0	14.738	1.324	3177.553	.037%	98.506%
56.0	14.611	1.328	3178.882	.038%	98.547%
57.0	14.470	1.331	3180.212	.038%	98.588%
58.0	14.365	1.336	3181.548	.038%	98.630%
59.0	14.252	1.340	3182.888	.038%	98.671%
60.0	14.175	1.346	3184.234	.038%	98.713%
61.0	14.091	1.351	3185.586	.038%	98.755%
62.0	14.020	1.358	3186.943	.038%	98.797%
63.0	13.936	1.362	3188.305	.039%	98.839%
64.0	13.873	1.367	3189.672	.039%	98.881%
65.0	13.802	1.372	3191.044	.039%	98.924%
66.0	13.739	1.376	3192.42	.039%	98.967%
67.0	13.683	1.381	3193.801	.039%	99.009%
68.0	13.634	1.386	3195.188	.039%	99.052%
69.0	13.591	1.391	3196.579	.039%	99.095%
70.0	13.528	1.394	3197.973	.039%	99.139%
71.0	13.507	1.400	3199.374	.040%	99.182%
72.0	13.472	1.405	3200.779	.040%	99.226%
73.0	13.430	1.408	3202.187	.040%	99.269%
74.0	13.409	1.413	3203.6	.040%	99.313%
75.0	13.366	1.416	3205.016	.040%	99.357%

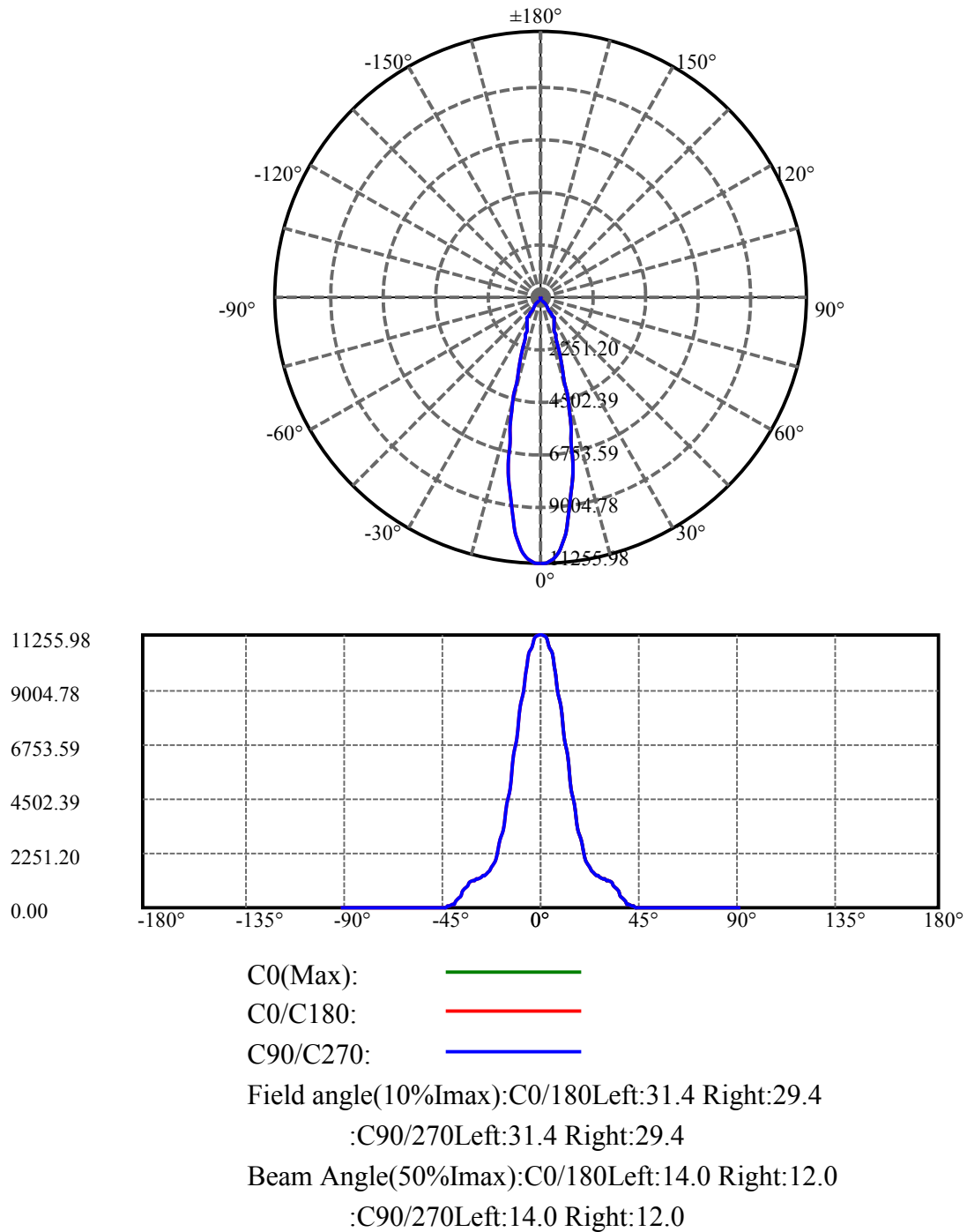
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	13.331	1.418	3206.435	.040%	99.401%
77.0	13.310	1.422	3207.857	.040%	99.445%
78.0	13.289	1.425	3209.282	.040%	99.489%
79.0	13.254	1.427	3210.709	.040%	99.534%
80.0	13.233	1.429	3212.138	.040%	99.578%
81.0	13.226	1.432	3213.571	.041%	99.622%
82.0	13.212	1.435	3215.005	.041%	99.667%
83.0	13.177	1.434	3216.44	.041%	99.711%
84.0	13.177	1.437	3217.877	.041%	99.756%
85.0	13.170	1.439	3219.315	.041%	99.800%
86.0	13.106	1.434	3220.749	.041%	99.845%
87.0	13.085	1.433	3222.182	.041%	99.889%
88.0	13.043	1.429	3223.611	.040%	99.933%
89.0	13.043	1.430	3225.042	.040%	99.978%
90.0	13.043	0.715	3225.757	.020%	100.000%

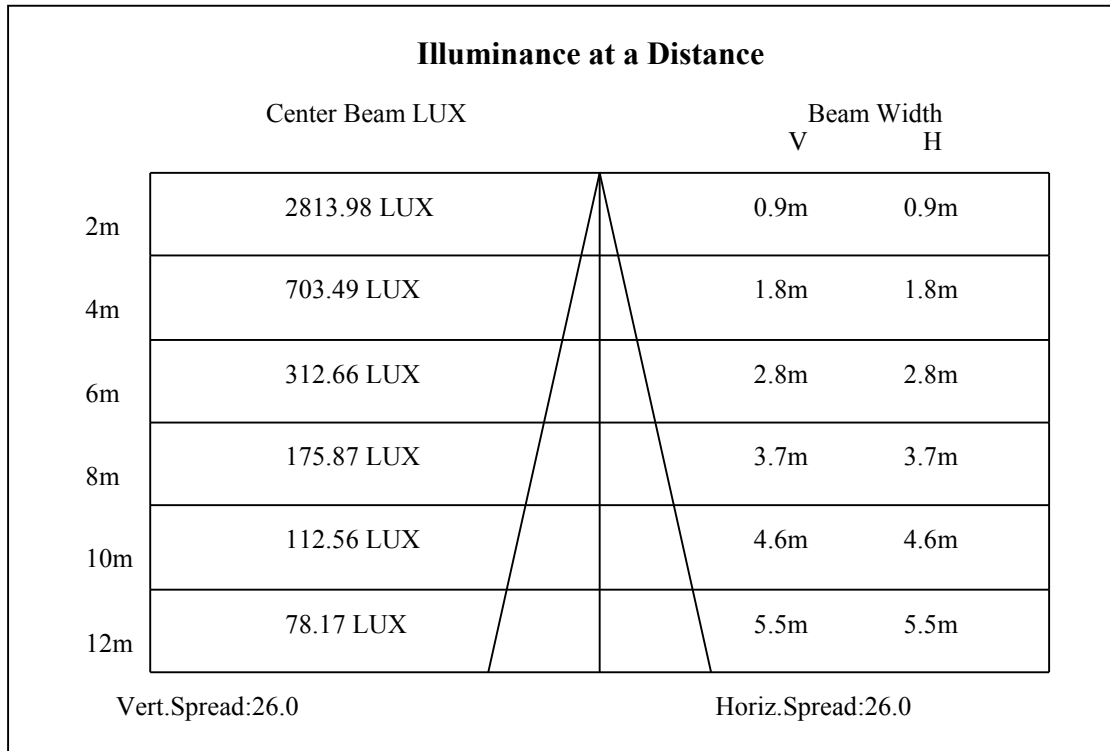
ZONAL LUMEN SUMMARY

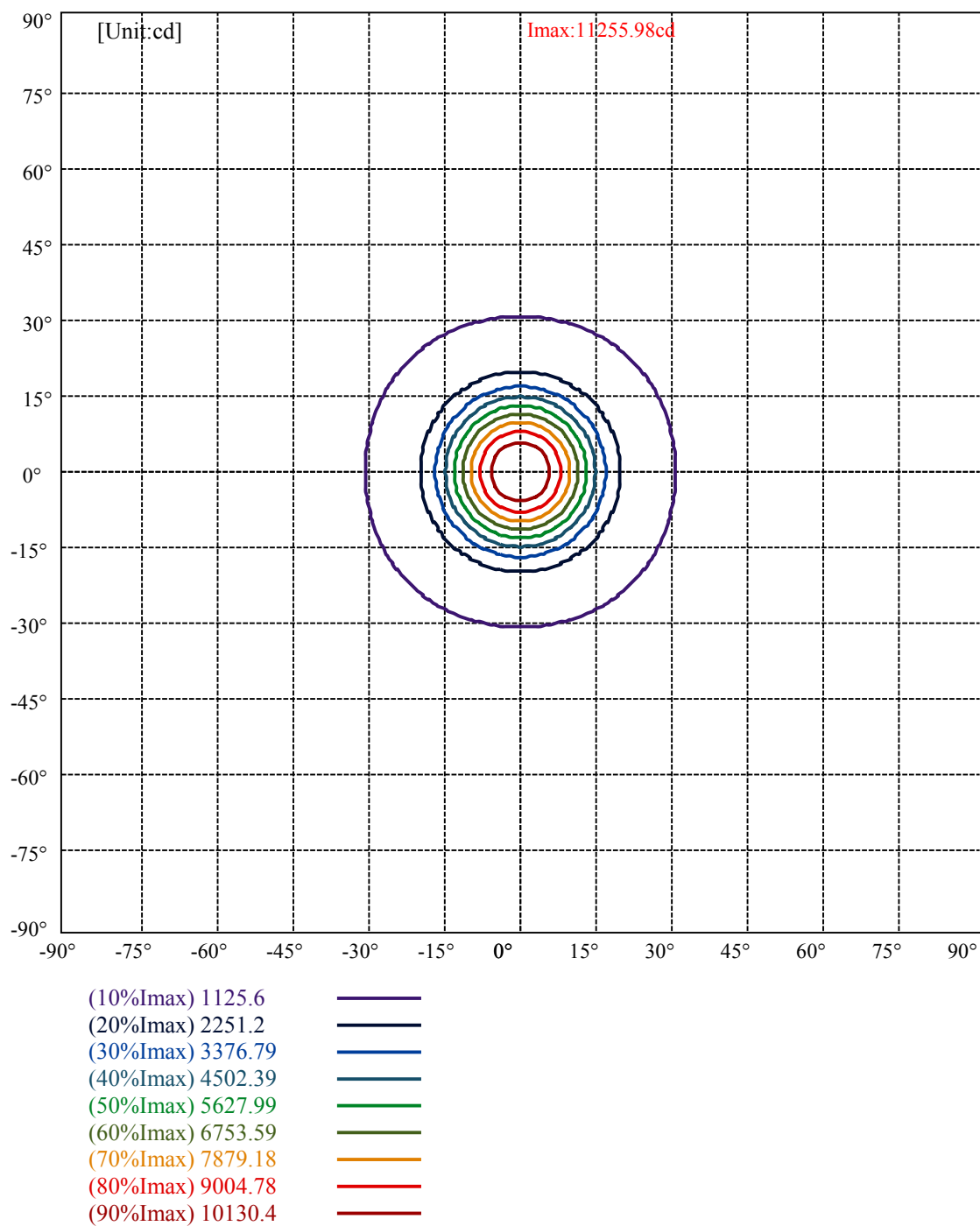
Zone	Lumens	%Lamp	%Fixt
0-30	2787.34	78.89%	86.41%
0-40	3152.19	89.22%	97.72%
0-60	3184.23	90.13%	98.71%
0-90	3225.04	91.28%	99.98%
0-120	3225.04	91.28%	99.98%
0-180	3225.76	91.30%	100.00%
60-90	42.15	1.19%	1.31%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-26.71	2580.61	73.04%	80.00%

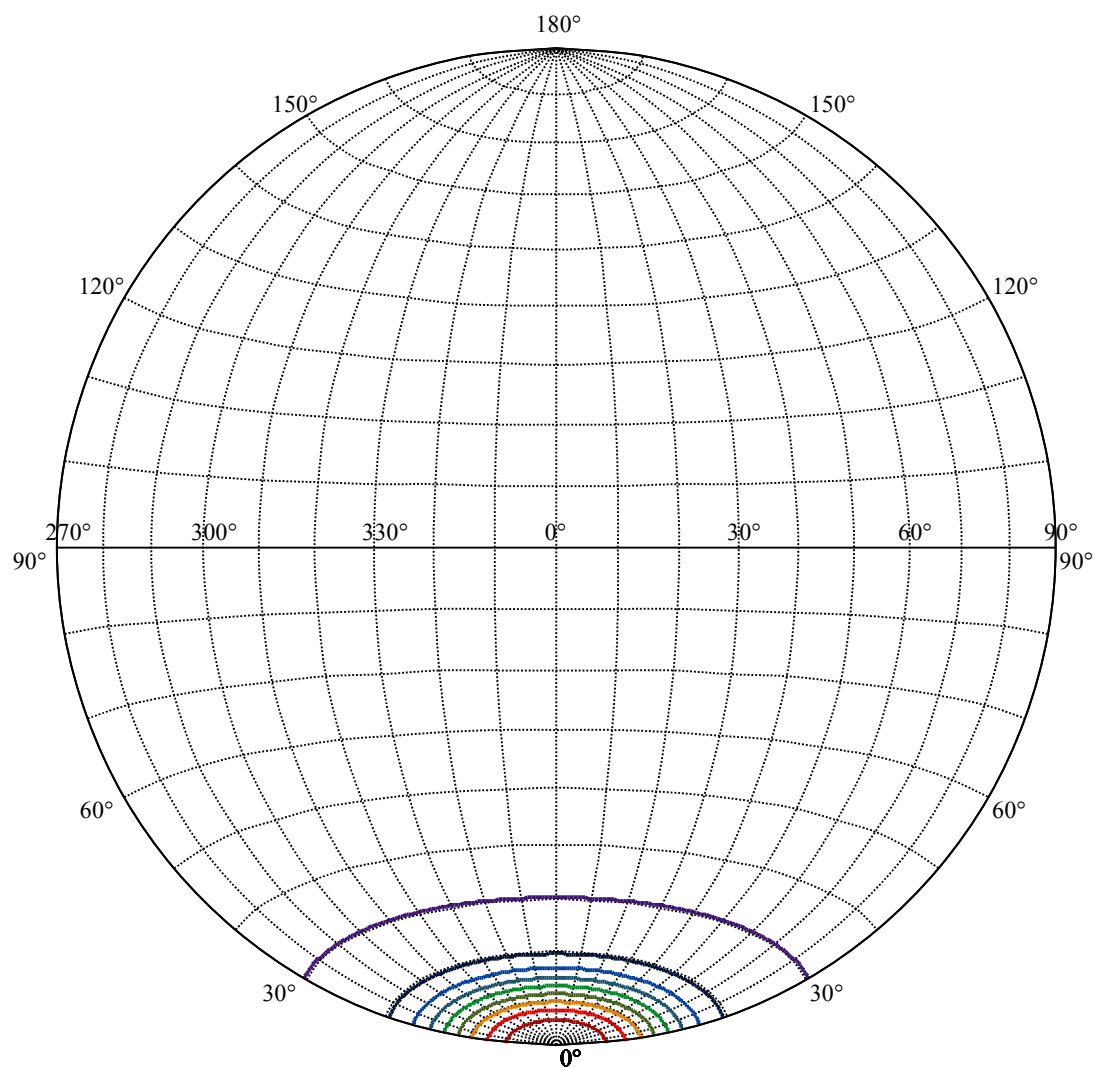
ZONAL LUMEN SUMMARY

0-10	981.70
10-20	1156.29
20-30	649.36
30-40	364.84
40-50	18.78
50-60	13.27
60-70	13.74
70-80	14.17
80-90	12.90
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









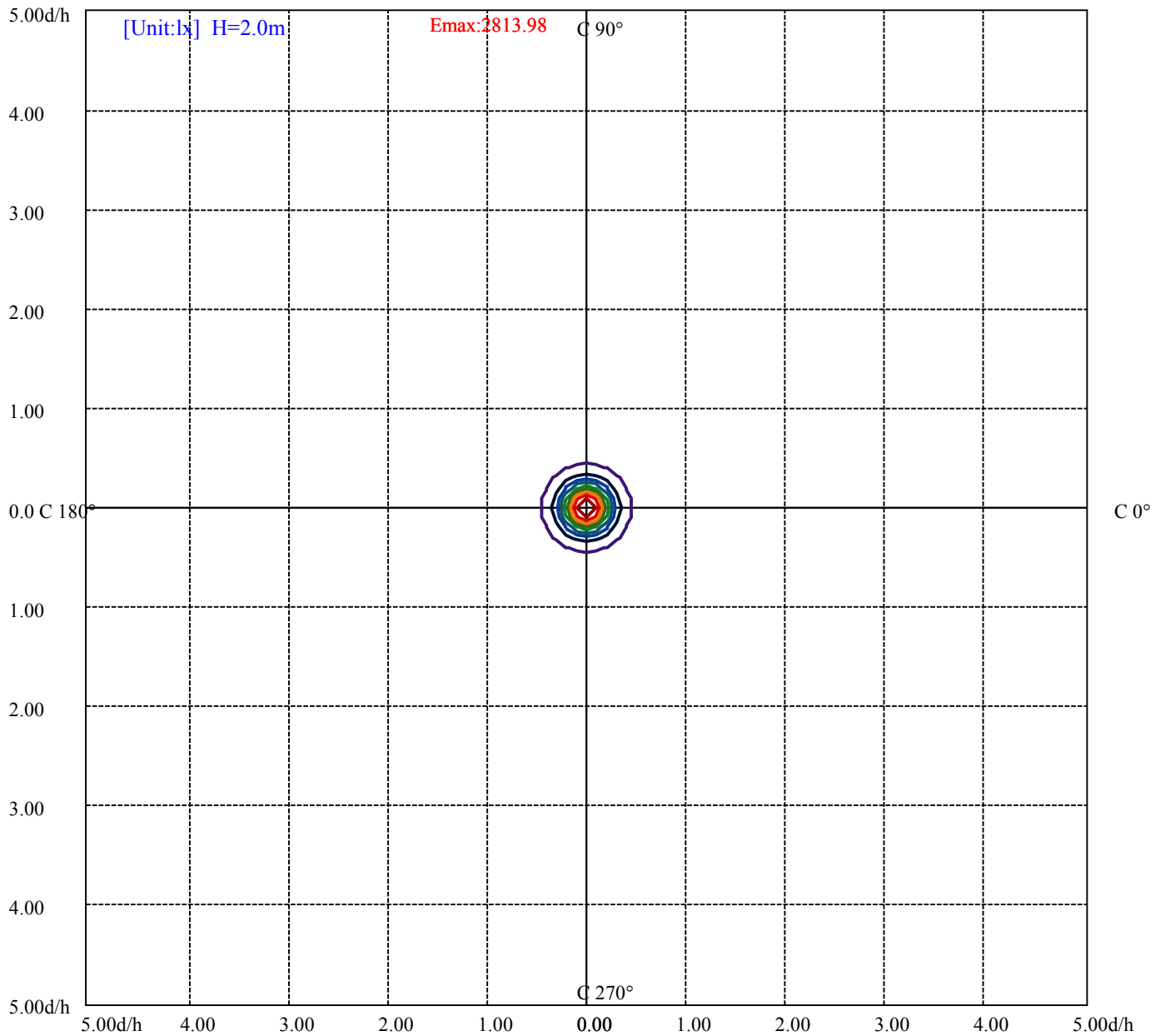
House

[Unit:cd]

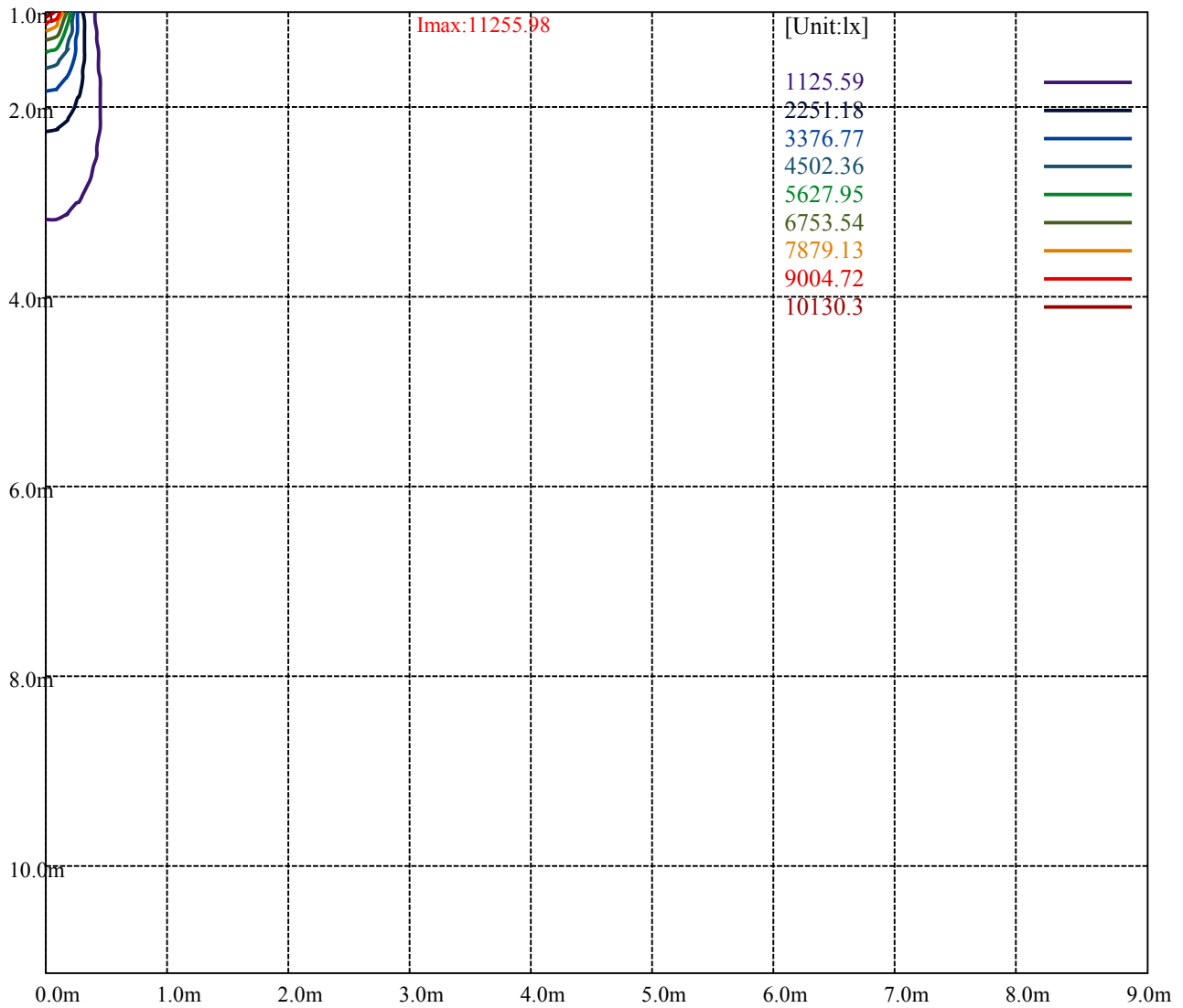
Road

Imax:11255.98

(10%Imax)	1125.6	—
(20%Imax)	2251.2	—
(30%Imax)	3376.79	—
(40%Imax)	4502.39	—
(50%Imax)	5627.99	—
(60%Imax)	6753.59	—
(70%Imax)	7879.18	—
(80%Imax)	9004.78	—
(90%Imax)	10130.4	—



(10%Emax)	281.3975	—
(20%Emax)	562.795	—
(30%Emax)	844.1925	—
(40%Emax)	1125.59	—
(50%Emax)	1406.988	—
(60%Emax)	1688.385	—
(70%Emax)	1969.782	—
(80%Emax)	2251.18	—
(90%Emax)	2532.575	—



Luminance Table

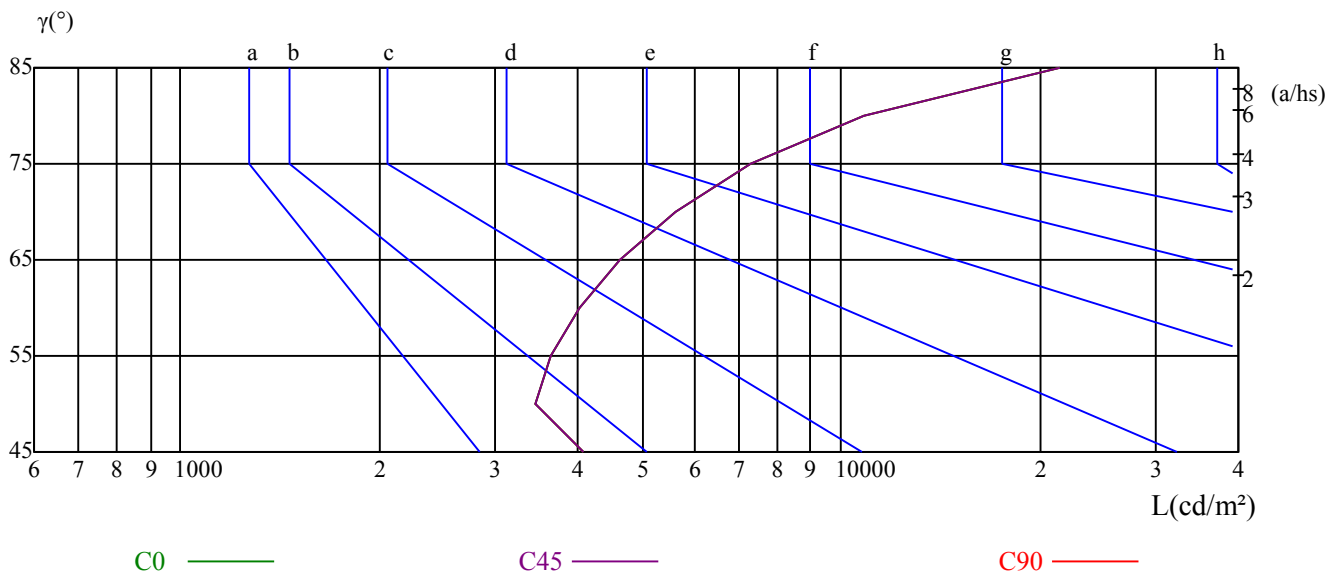
γ	45	50	55	60	65	70	75	80	85
C0	4080	3448	3641	4018	4629	5606	7319	10800	21415
C45	4080	3448	3641	4018	4629	5606	7319	10800	21415
C90	4080	3448	3641	4018	4629	5606	7319	10800	21415

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4629	4629	4629	7319	7319	7319	21415	21415	21415

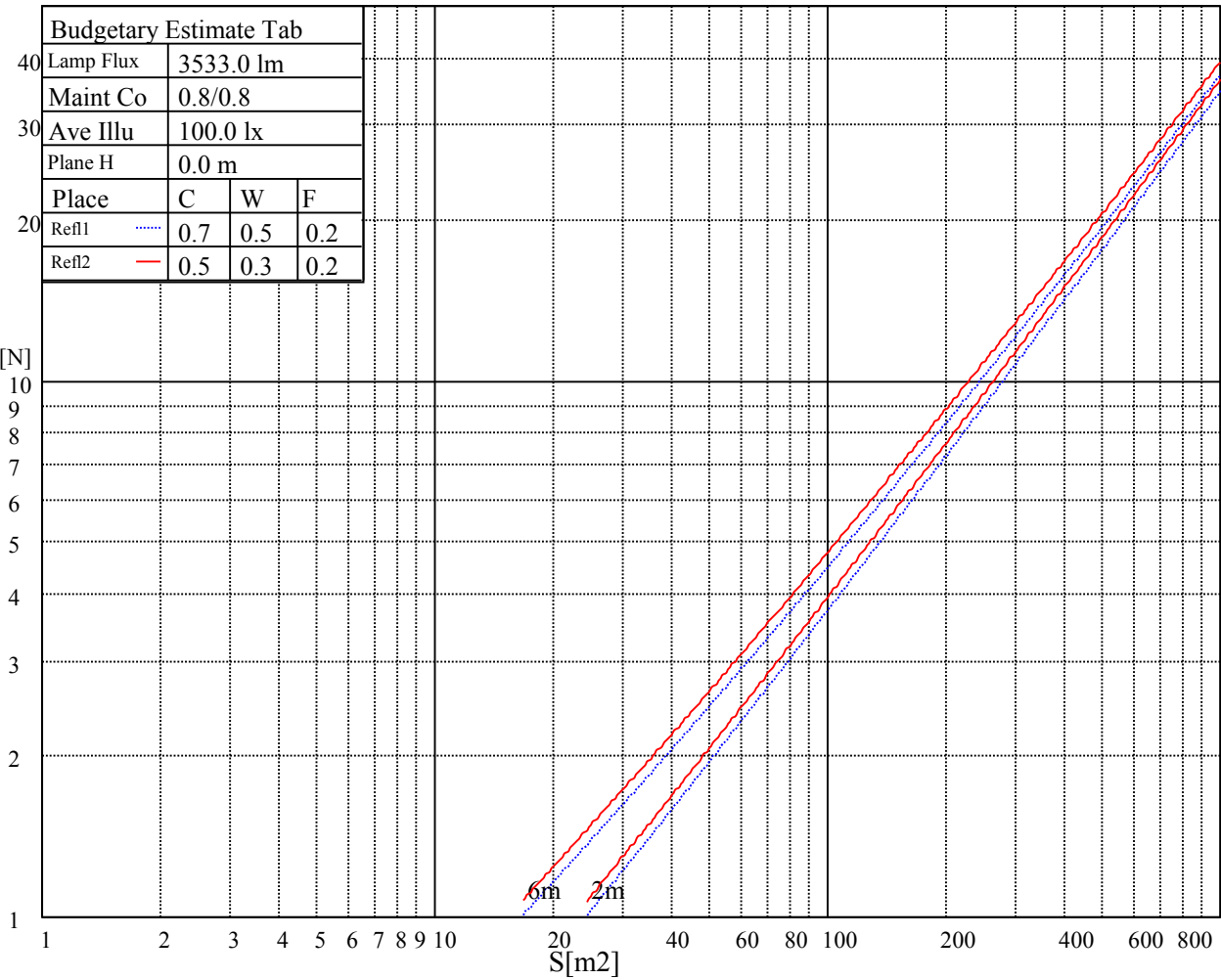
Glare Table

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

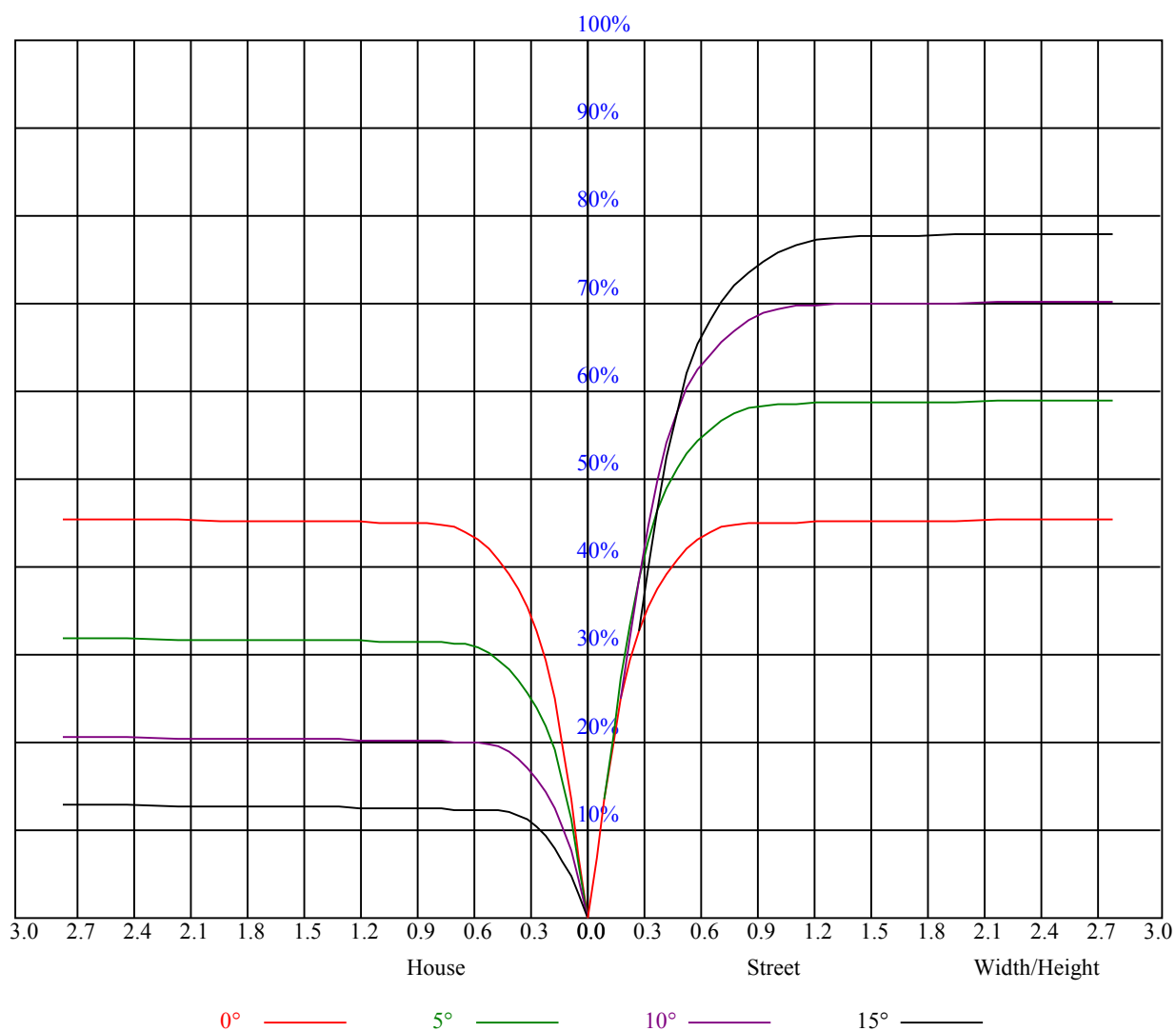
Luminance Limiting Curve



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	1.13	2.04	1.49	2.35	2.66	1.22	2.13	1.58	2.44	2.76
	3H	4.38	5.19	4.77	5.52	5.89	4.45	5.25	4.83	5.59	5.96
	4H	6.14	6.88	6.55	7.24	7.63	6.23	6.97	6.63	7.32	7.71
	6H	8.12	8.80	8.54	9.18	9.58	8.21	8.89	8.63	9.26	9.66
	8H	9.22	9.86	9.66	10.25	10.66	9.31	9.94	9.75	10.34	10.75
	12H	11.01	11.61	11.44	12.00	12.43	11.10	11.71	11.53	12.09	12.52
4H	2H	2.06	2.80	2.47	3.16	3.55	2.12	2.87	2.53	3.22	3.61
	3H	5.55	6.16	5.97	6.57	6.98	5.60	6.21	6.01	6.62	7.02
	4H	7.47	8.01	7.91	8.44	8.89	7.54	8.09	7.98	8.51	8.96
	6H	9.60	10.07	10.08	10.52	11.00	9.69	10.15	10.16	10.60	11.08
	8H	10.80	11.24	11.28	11.69	12.17	10.88	11.31	11.36	11.77	12.24
	12H	12.48	12.86	12.98	13.35	13.82	12.56	12.94	13.06	13.43	13.90
8H	4H	8.21	8.64	8.68	9.09	9.57	8.26	8.70	8.74	9.15	9.63
	6H	10.62	10.96	11.13	11.46	11.95	10.68	11.02	11.19	11.52	12.01
	8H	12.01	12.31	12.54	12.83	13.33	12.06	12.36	12.60	12.89	13.38
	12H	13.82	14.08	14.34	14.58	15.16	13.88	14.14	14.40	14.63	15.22
12H	4H	8.42	8.79	8.91	9.28	9.76	8.47	8.84	8.96	9.33	9.81
	6H	11.13	11.24	11.47	11.71	12.26	11.19	11.29	11.53	11.77	12.32
	8H	12.46	12.72	12.98	13.22	13.80	12.51	12.77	13.03	13.26	13.85
Variation with the observer position at spacings:											
S = 1.0H		5.8/-7.3					5.8/-7.3				
S = 1.5H		7.9/-5.4					7.9/-5.4				
S = 2.0H		9.2/-3.9					9.2/-3.9				
Standard tables:		BK3					BK3				
Uncorrected UGR		1.1					1.1				



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	0.98	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	0.85	0.88	0.86	0.83	0.86	0.84	0.82	0.84	0.82	0.81	0.79
4	0.88	0.84	0.80	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.79	0.77	0.76
5	0.84	0.80	0.76	0.83	0.79	0.76	0.82	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	0.74	0.71	0.70
7	0.77	0.73	0.70	0.77	0.73	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	0.67	0.71	0.69	0.66	0.65
9	0.72	0.68	0.65	0.71	0.67	0.65	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.64	0.63
10	0.69	0.65	0.63	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	11220.75	11311.88	11328.75	11300.63	11238.75	11058.75	10794.38	10530.00	10046.25
45.0	11289.38	11283.75	11227.50	11092.50	10906.88	10591.88	10226.25	9720.00	9140.63
90.0	11224.13	11210.63	11039.63	10769.63	10443.94	9978.75	9418.50	8850.38	8153.44
135.0	11289.38	11205.00	11025.00	10738.13	10395.00	10035.00	9343.13	8769.38	8235.00
180.0	11220.75	11171.25	10956.38	10640.81	10266.75	9749.25	9146.25	8533.13	7797.38
225.0	11289.38	11224.69	11153.81	11008.13	10770.19	10310.63	9930.38	9435.38	8808.75
270.0	11224.13	11311.88	11300.63	11238.75	11120.63	10929.38	10575.00	10215.00	9781.88
315.0	11289.38	11328.75	11328.75	11401.88	11217.38	11014.88	10706.63	10312.88	9883.13
360.0	11220.75	11311.88	11328.75	11300.63	11238.75	11058.75	10794.38	10530.00	10046.25
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	9523.13	9056.25	8319.38	7695.00	7053.75	6232.50	5580.00	4933.13	4196.25
45.0	8561.25	7852.50	7121.25	6451.88	5788.13	4995.00	4398.75	3847.50	3296.25
90.0	7503.19	6766.31	6028.88	5384.25	4685.06	4033.69	3499.31	3019.50	2523.38
135.0	7346.25	6682.50	6091.88	5270.63	4556.25	4038.75	3375.00	2913.75	2656.69
180.0	7124.06	6366.94	5706.00	4978.69	4363.88	3728.81	3162.94	2738.25	2350.13
225.0	8131.50	7505.44	6770.25	6009.19	5339.81	4621.50	4032.00	3427.31	2909.81
270.0	9129.38	8544.38	7931.25	7205.63	6468.75	5799.38	5062.50	4432.50	3785.63
315.0	9380.25	8738.44	8033.63	7383.38	6642.56	5898.94	5244.19	4606.88	3891.38
360.0	9523.13	9056.25	8319.38	7695.00	7053.75	6232.50	5580.00	4933.13	4196.25
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3684.38	3228.75	2874.38	2408.63	2126.25	1865.81	1661.06	1521.00	1407.38
45.0	2851.88	2418.19	2121.75	1816.88	1629.00	1495.69	1393.31	1317.94	1270.13
90.0	2206.69	1949.06	1695.94	1550.81	1449.56	1362.94	1313.44	1274.63	1233.00
135.0	2163.38	1907.44	1703.25	1544.06	1449.00	1381.50	1316.81	1277.44	1245.94
180.0	2038.50	1816.31	1643.06	1490.63	1408.50	1349.44	1301.06	1263.38	1233.56
225.0	2541.38	2232.00	1919.25	1728.00	1585.13	1459.13	1391.06	1340.44	1296.56
270.0	3234.38	2857.50	2423.81	2106.56	1879.88	1720.69	1534.50	1441.13	1379.25
315.0	3411.56	2984.06	2563.88	2212.88	1960.31	1734.19	1565.44	1457.44	1369.69
360.0	3684.38	3228.75	2874.38	2408.63	2126.25	1865.81	1661.06	1521.00	1407.38
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1335.94	1279.69	1238.06	1205.44	1169.44	1141.31	1114.88	1051.88	918.56
45.0	1235.25	1203.19	1167.75	1138.50	1115.44	1063.13	957.94	840.94	708.75
90.0	1202.63	1166.06	1120.84	1101.26	1028.93	895.95	770.06	638.16	473.91
135.0	1211.06	1178.44	1149.75	1112.06	1015.31	900.00	754.88	619.88	465.75
180.0	1199.25	1168.88	1119.71	1077.69	980.33	844.20	694.01	559.35	403.48
225.0	1257.19	1223.44	1189.69	1162.69	1120.39	1054.63	934.76	789.47	632.76
270.0	1314.00	1268.44	1238.63	1194.75	1161.56	1139.06	1083.94	994.50	879.19
315.0	1311.19	1260.00	1220.63	1186.88	1158.75	1121.46	1087.26	1002.32	838.86
360.0	1335.94	1279.69	1238.06	1205.44	1169.44	1141.31	1114.88	1051.88	918.56
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	786.38	644.06	471.38	334.13	284.63	108.73	47.42	40.11	32.29
45.0	539.44	407.81	313.31	154.80	68.57	44.04	35.04	27.34	25.37
90.0	345.32	224.72	114.69	49.95	40.67	31.39	26.78	24.08	17.16
135.0	315.00	284.06	89.89	47.76	39.32	30.94	26.38	22.33	17.27
180.0	254.64	144.06	71.33	44.78	36.79	29.42	24.64	17.94	17.21
225.0	491.46	356.68	218.64	106.03	52.48	42.69	31.89	26.38	22.67
270.0	713.25	574.88	437.06	285.19	152.55	74.48	43.59	35.61	27.39
315.0	720.90	583.76	430.20	281.93	168.41	75.88	46.86	38.48	29.25
360.0	786.38	644.06	471.38	334.13	284.63	108.73	47.42	40.11	32.29

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	26.44	23.06	17.83	16.93	16.48	16.26	15.92	15.69	15.53
45.0	20.64	16.71	16.31	15.86	15.64	15.47	15.19	15.08	14.91
90.0	16.65	16.26	15.81	15.58	15.41	15.19	15.08	14.91	14.74
135.0	16.88	16.54	16.26	16.03	15.75	15.58	15.36	15.19	15.02
180.0	16.71	16.43	16.14	15.86	15.69	15.53	15.30	15.13	14.96
225.0	16.99	16.54	16.14	15.81	15.58	15.30	15.13	14.96	14.79
270.0	23.01	18.56	16.76	16.31	15.98	15.69	15.47	15.24	15.02
315.0	25.54	21.32	17.27	16.82	16.48	16.09	15.81	15.58	15.41
360.0	26.44	23.06	17.83	16.93	16.48	16.26	15.92	15.69	15.53
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	15.30	15.13	15.02	14.79	14.68	14.57	14.46	14.34	14.29
45.0	14.74	14.57	14.46	14.34	14.23	14.12	14.06	14.01	13.95
90.0	14.57	14.46	14.40	14.23	14.18	14.06	14.01	13.95	13.84
135.0	14.85	14.74	14.57	14.46	14.40	14.29	14.18	14.12	14.01
180.0	14.79	14.68	14.57	14.46	14.34	14.23	14.23	14.12	14.06
225.0	14.63	14.51	14.40	14.29	14.18	14.06	14.01	13.89	13.84
270.0	14.85	14.74	14.63	14.46	14.34	14.23	14.12	14.06	14.01
315.0	15.19	15.08	14.85	14.74	14.57	14.46	14.34	14.23	14.18
360.0	15.30	15.13	15.02	14.79	14.68	14.57	14.46	14.34	14.29
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	14.18	14.12	14.01	13.95	13.89	13.89	13.78	13.73	13.67
45.0	13.84	13.78	13.73	13.67	13.61	13.56	13.50	13.44	13.44
90.0	13.78	13.73	13.67	13.56	13.56	13.50	13.50	13.44	13.39
135.0	13.95	13.89	13.84	13.78	13.73	13.67	13.61	13.56	13.56
180.0	14.01	13.95	13.84	13.78	13.73	13.67	13.67	13.61	13.61
225.0	13.78	13.73	13.67	13.61	13.56	13.50	13.44	13.39	13.33
270.0	13.89	13.78	13.73	13.73	13.61	13.56	13.56	13.44	13.44
315.0	14.06	14.01	13.95	13.84	13.78	13.73	13.67	13.61	13.61
360.0	14.18	14.12	14.01	13.95	13.89	13.89	13.78	13.73	13.67
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	13.67	13.61	13.61	13.56	13.50	13.50	13.50	13.44	13.39
45.0	13.39	13.33	13.33	13.33	13.28	13.28	13.22	13.22	13.16
90.0	13.39	13.33	13.33	13.28	13.28	13.28	13.22	13.16	13.16
135.0	13.50	13.50	13.50	13.39	13.39	13.33	13.33	13.28	13.28
180.0	13.56	13.56	13.50	13.44	13.44	13.39	13.39	13.33	13.33
225.0	13.33	13.28	13.22	13.22	13.16	13.16	13.11	13.11	13.11
270.0	13.39	13.33	13.33	13.28	13.22	13.22	13.22	13.16	13.16
315.0	13.56	13.50	13.44	13.44	13.39	13.33	13.33	13.33	13.28
360.0	13.67	13.61	13.61	13.56	13.50	13.50	13.50	13.44	13.39
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	13.39	13.39	13.33	13.33	13.33	13.33	13.39	13.22	13.22
45.0	13.16	13.16	13.11	13.11	13.05	13.05	12.99	12.94	12.94
90.0	13.16	13.16	13.11	13.11	13.11	12.99	12.94	12.94	12.94
135.0	13.22	13.22	13.22	13.28	13.22	13.11	13.05	13.05	13.05
180.0	13.33	13.28	13.28	13.33	13.39	13.16	13.16	13.16	13.16
225.0	13.11	13.05	13.05	13.05	12.99	12.99	12.94	12.94	12.94
270.0	13.16	13.16	13.11	13.05	13.11	13.05	13.05	12.99	12.99
315.0	13.28	13.28	13.22	13.16	13.16	13.16	13.16	13.11	13.11
360.0	13.39	13.39	13.33	13.33	13.33	13.33	13.39	13.22	13.22

Intensity data(cd)

Appendix Page: 19 Total:19

C/ γ (°)	90.0
0.0	13.16
45.0	12.94
90.0	12.99
135.0	13.11
180.0	13.16
225.0	12.94
270.0	12.99
315.0	13.05
360.0	13.16