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## NATA

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LumCAT: 3-1549-A3  
Luminaire: 99.02.73.172+92.76.365.00  
Report No: NATA0100  
Test No: GC2019011609  
LampCAT: CITIZEN CMT1922  
Lamp flux(lm): 2875.0  
Number of Lamps: 1  
Length(mm): 79  
Phm Type: C

Voltage(V): 35.6000  
Current(A): 0.6000  
Power (W): 21.3600  
PF: 0.0000  
Ballast type: DC  
Width(mm): 79  
Height(mm): 0

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## Photometric Results

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Lumens(lm): 2593.75  
Efficiency(%): 90.22%  
Lumens(lm)/Power(W): 121.54  
Central intensity(cd): 10464.330  
Maximum intensity(cd): 10464.330  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=22.5  
                                  [C90/270]Total=22.5  
Field angle(10%Imax): [C0/180]Total=53.6  
                                  [C90/270]Total=53.6  
Maximum s/h(1/2): C0\_180=0.38 C90\_270=0.38  
Maximum s/h(1/4): C0\_180=0.40 C90\_270=0.40  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 90.30%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.600%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	10464.328	2.504	2.504	.087%	.097%
1.0	10375.242	19.857	22.36	.691%	.862%
2.0	10137.234	38.796	61.156	1.349%	2.358%
3.0	9778.219	56.119	117.276	1.952%	4.521%
4.0	9368.719	71.667	188.942	2.493%	7.285%
5.0	8913.867	85.195	274.137	2.963%	10.569%
6.0	8376.258	96.014	370.152	3.340%	14.271%
7.0	7799.414	104.234	474.385	3.626%	18.290%
8.0	7246.617	110.597	584.982	3.847%	22.553%
9.0	6598.828	113.201	698.183	3.937%	26.918%
10.0	5973.891	113.757	811.94	3.957%	31.304%
11.0	5396.414	112.916	924.857	3.928%	35.657%
12.0	4783.008	109.052	1033.908	3.793%	39.861%
13.0	4196.813	103.528	1137.436	3.601%	43.853%
14.0	3691.266	97.927	1235.363	3.406%	47.628%
15.0	3220.734	91.412	1326.775	3.180%	51.153%
16.0	2798.227	84.581	1411.356	2.942%	54.414%
17.0	2437.594	78.153	1489.51	2.718%	57.427%
18.0	2124.492	71.993	1561.503	2.504%	60.202%
19.0	1893.094	67.587	1629.09	2.351%	62.808%
20.0	1695.375	63.587	1692.677	2.212%	65.260%
21.0	1529.930	60.125	1752.802	2.091%	67.578%
22.0	1402.102	57.598	1810.4	2.003%	69.798%
23.0	1298.109	55.621	1866.021	1.935%	71.943%
24.0	1200.410	53.542	1919.563	1.862%	74.007%
25.0	1125.288	52.151	1971.714	1.814%	76.018%
26.0	1079.557	51.897	2023.611	1.805%	78.019%
27.0	1037.271	51.641	2075.251	1.796%	80.010%
28.0	999.345	51.449	2126.7	1.790%	81.993%
29.0	968.520	51.491	2178.191	1.791%	83.978%
30.0	941.372	51.616	2229.807	1.795%	85.968%
31.0	908.100	51.289	2281.096	1.784%	87.946%
32.0	848.925	49.332	2330.428	1.716%	89.848%
33.0	765.555	45.723	2376.152	1.590%	91.611%
34.0	659.004	40.411	2416.563	1.406%	93.169%
35.0	553.936	34.842	2451.405	1.212%	94.512%
36.0	440.719	28.407	2479.812	.988%	95.607%
37.0	330.870	21.836	2501.648	.760%	96.449%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	248.590	16.783	2518.431	.584%	97.096%
39.0	135.563	9.355	2527.787	.325%	97.457%
40.0	68.421	4.823	2532.61	.168%	97.643%
41.0	40.057	2.882	2535.492	.100%	97.754%
42.0	30.987	2.274	2537.765	.079%	97.841%
43.0	24.975	1.868	2539.633	.065%	97.913%
44.0	21.621	1.647	2541.28	.057%	97.977%
45.0	19.132	1.484	2542.764	.052%	98.034%
46.0	15.694	1.238	2544.002	.043%	98.082%
47.0	14.280	1.145	2545.147	.040%	98.126%
48.0	14.013	1.142	2546.289	.040%	98.170%
49.0	13.725	1.136	2547.425	.040%	98.214%
50.0	13.451	1.130	2548.555	.039%	98.257%
51.0	13.254	1.130	2549.684	.039%	98.301%
52.0	13.057	1.128	2550.813	.039%	98.344%
53.0	12.853	1.126	2551.938	.039%	98.388%
54.0	12.663	1.123	2553.062	.039%	98.431%
55.0	12.509	1.124	2554.185	.039%	98.475%
56.0	12.361	1.124	2555.309	.039%	98.518%
57.0	12.213	1.123	2556.432	.039%	98.561%
58.0	12.080	1.123	2557.556	.039%	98.604%
59.0	11.960	1.124	2558.68	.039%	98.648%
60.0	11.855	1.126	2559.806	.039%	98.691%
61.0	11.735	1.126	2560.931	.039%	98.735%
62.0	11.637	1.127	2562.058	.039%	98.778%
63.0	11.573	1.131	2563.189	.039%	98.822%
64.0	11.475	1.131	2564.32	.039%	98.865%
65.0	11.384	1.131	2565.451	.039%	98.909%
66.0	11.334	1.135	2566.587	.039%	98.953%
67.0	11.271	1.138	2567.725	.040%	98.996%
68.0	11.215	1.140	2568.865	.040%	99.040%
69.0	11.159	1.142	2570.007	.040%	99.085%
70.0	11.109	1.145	2571.152	.040%	99.129%
71.0	11.067	1.148	2572.3	.040%	99.173%
72.0	11.011	1.148	2573.448	.040%	99.217%
73.0	10.976	1.151	2574.599	.040%	99.262%
74.0	10.941	1.153	2575.752	.040%	99.306%
75.0	10.905	1.155	2576.907	.040%	99.351%

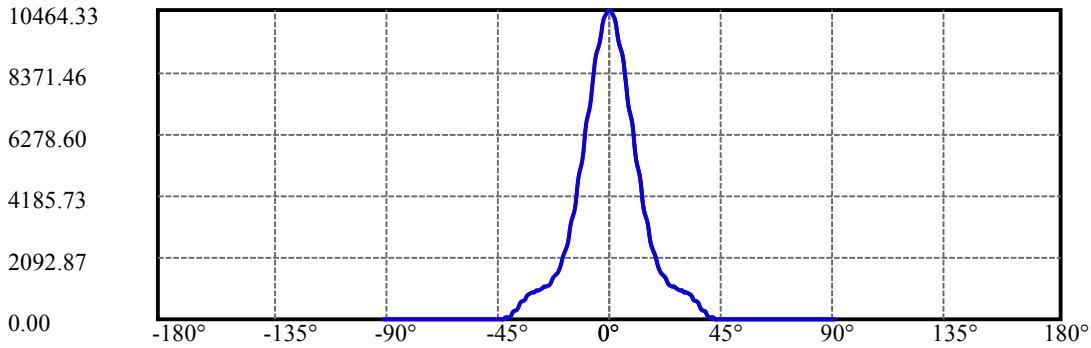
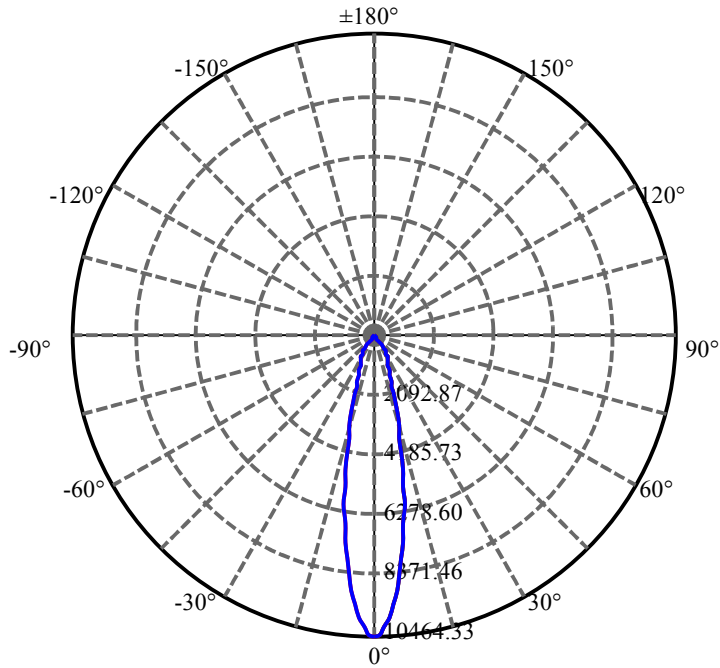
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.870	1.157	2578.064	.040%	99.395%
77.0	10.828	1.157	2579.221	.040%	99.440%
78.0	10.821	1.161	2580.382	.040%	99.484%
79.0	10.807	1.163	2581.545	.040%	99.529%
80.0	10.772	1.163	2582.708	.040%	99.574%
81.0	10.744	1.164	2583.872	.040%	99.619%
82.0	10.723	1.164	2585.036	.041%	99.664%
83.0	10.709	1.166	2586.202	.041%	99.709%
84.0	10.688	1.166	2587.368	.041%	99.754%
85.0	10.680	1.167	2588.534	.041%	99.799%
86.0	10.610	1.161	2589.695	.040%	99.844%
87.0	10.610	1.162	2590.857	.040%	99.888%
88.0	10.575	1.159	2592.016	.040%	99.933%
89.0	10.554	1.157	2593.173	.040%	99.978%
90.0	10.575	0.580	2593.753	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2229.81	77.56%	85.97%
0-40	2532.61	88.09%	97.64%
0-60	2559.81	89.04%	98.69%
0-90	2593.17	90.20%	99.98%
0-120	2593.17	90.20%	99.98%
0-180	2593.75	90.22%	100.00%
60-90	34.49	1.20%	1.33%
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%
0-27.00	2075.00	72.17%	80.00%

ZONAL LUMEN SUMMARY

0-10	811.94
10-20	880.74
20-30	537.13
30-40	302.80
40-50	15.95
50-60	11.25
60-70	11.35
70-80	11.56
80-90	10.46
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

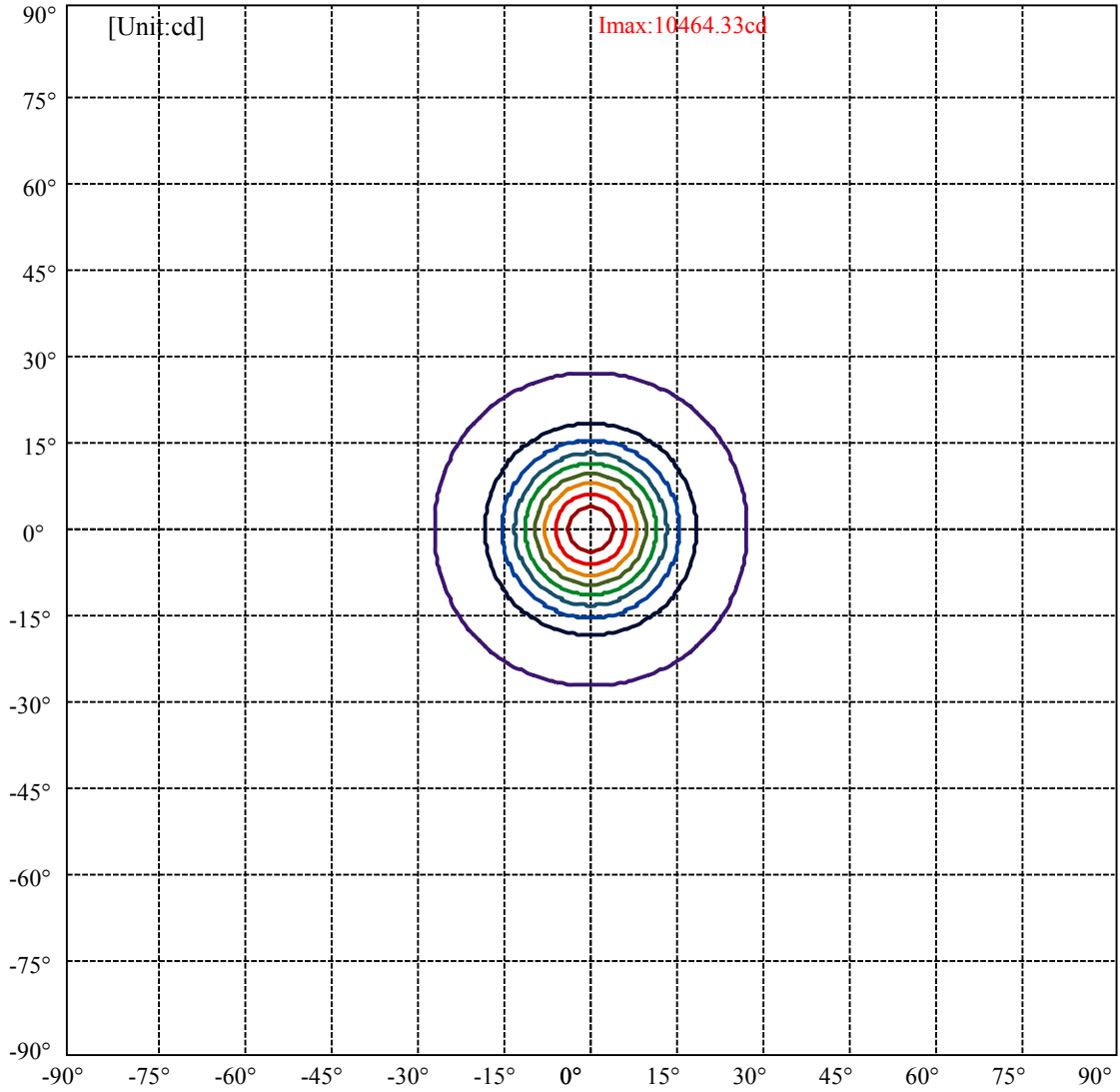


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:26.8 Right:26.8  
:C90/270Left:26.8 Right:26.8

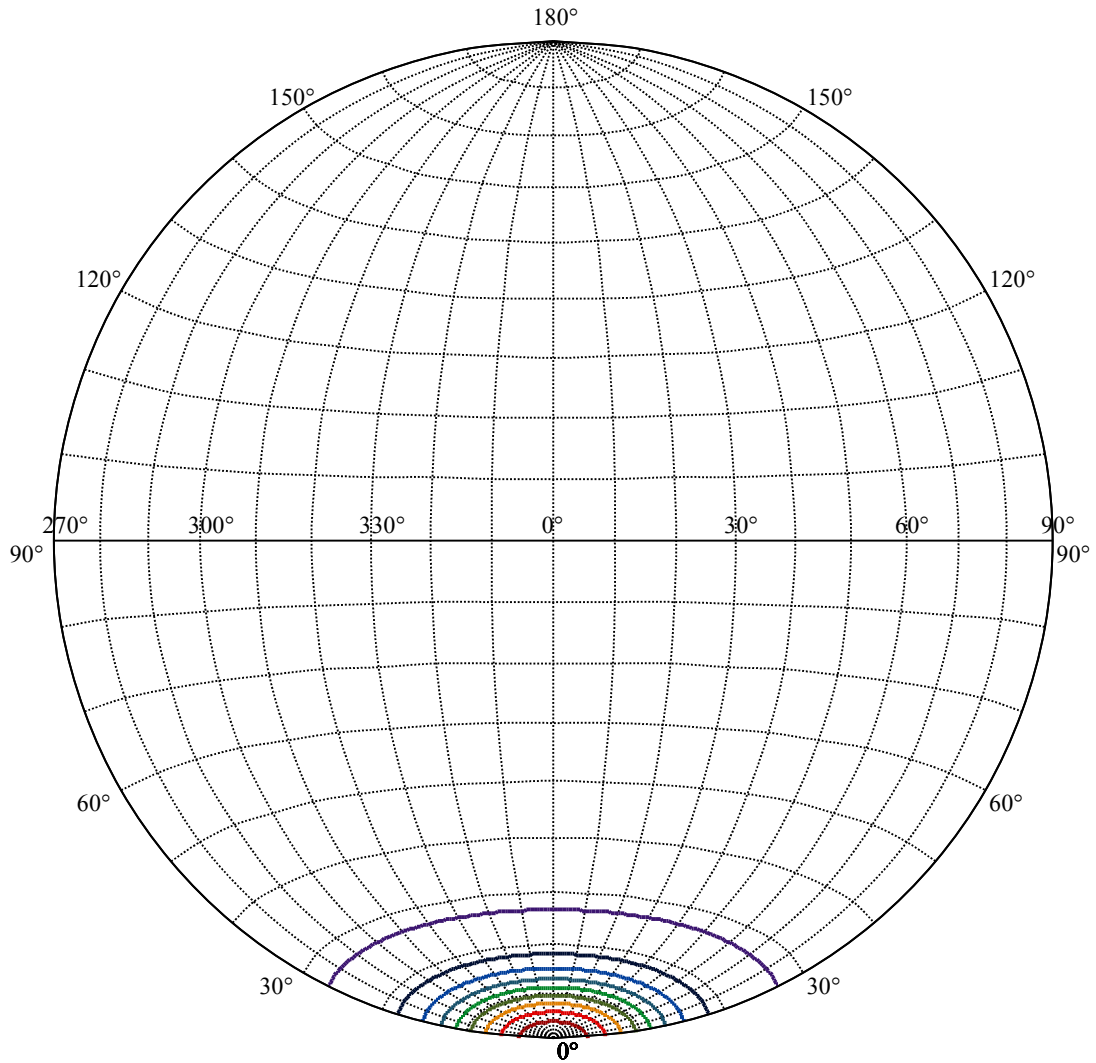
Beam Angle(50%Imax):C0/180Left:11.3 Right:11.3  
:C90/270Left:11.3 Right:11.3





(10%Imax) 1046.43	—
(20%Imax) 2092.87	—
(30%Imax) 3139.3	—
(40%Imax) 4185.73	—
(50%Imax) 5232.16	—
(60%Imax) 6278.6	—
(70%Imax) 7325.03	—
(80%Imax) 8371.46	—
(90%Imax) 9417.9	—





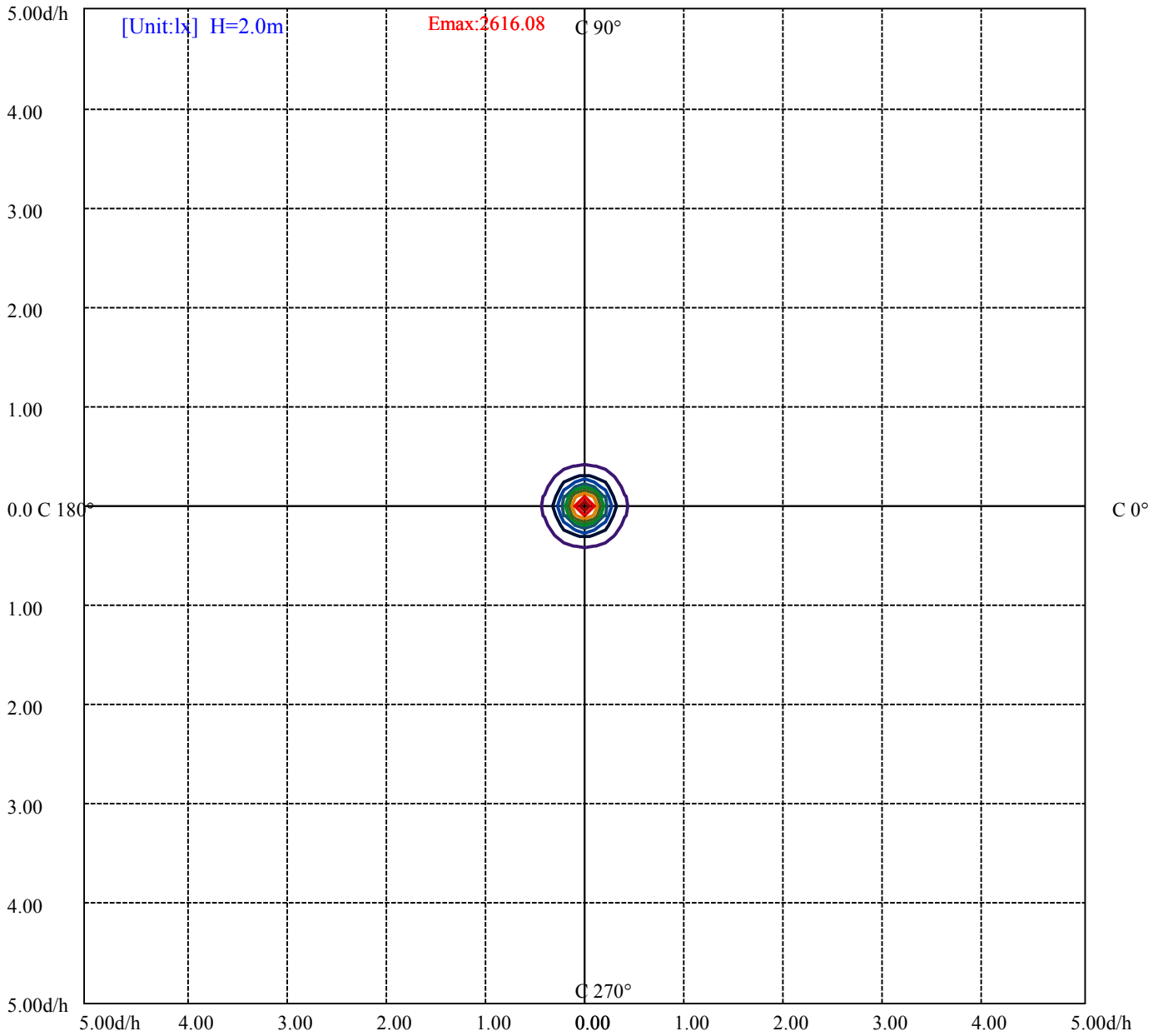
House

[Unit:cd]

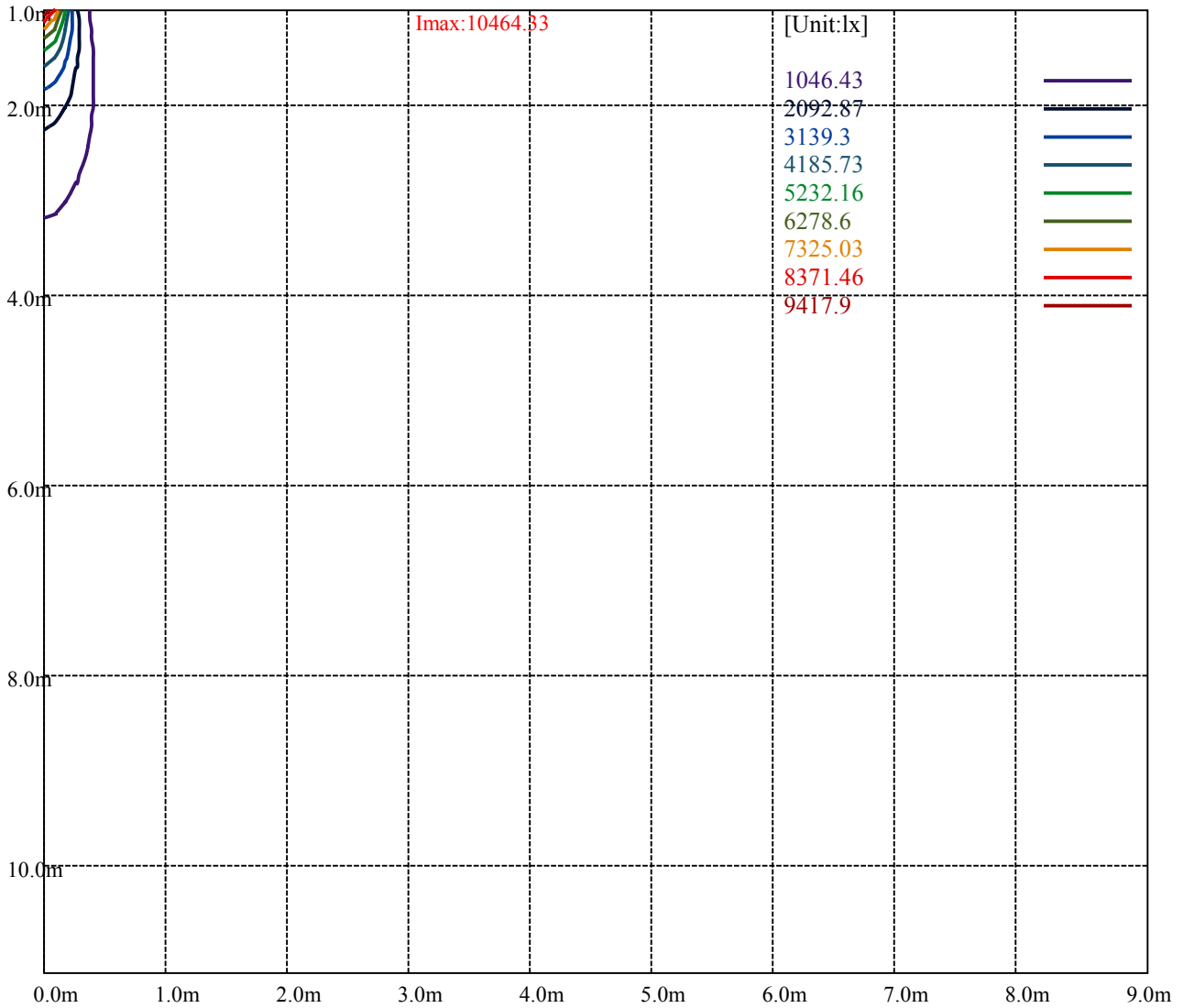
Road

**Imax:10464.33**

(10%Imax) 1046.43	—
(20%Imax) 2092.87	—
(30%Imax) 3139.3	—
(40%Imax) 4185.73	—
(50%Imax) 5232.16	—
(60%Imax) 6278.6	—
(70%Imax) 7325.03	—
(80%Imax) 8371.46	—
(90%Imax) 9417.9	—



- (10%Emax) 261.6075
- (20%Emax) 523.215
- (30%Emax) 784.8225
- (40%Emax) 1046.432
- (50%Emax) 1308.04
- (60%Emax) 1569.647
- (70%Emax) 1831.255
- (80%Emax) 2092.863
- (90%Emax) 2354.47



Luminance Table

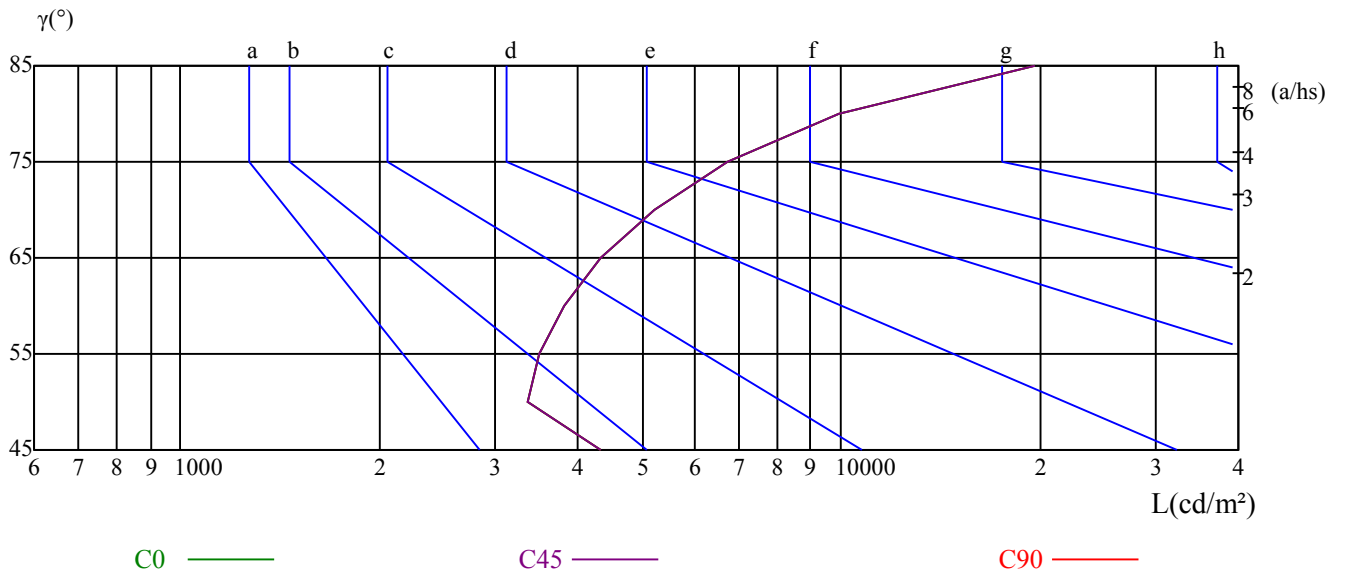
$\gamma$	45	50	55	60	65	70	75	80	85
C0	4335	3353	3494	3799	4316	5205	6751	9940	19635
C45	4335	3353	3494	3799	4316	5205	6751	9940	19635
C90	4335	3353	3494	3799	4316	5205	6751	9940	19635

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4316	4316	4316	6751	6751	6751	19635	19635	19635

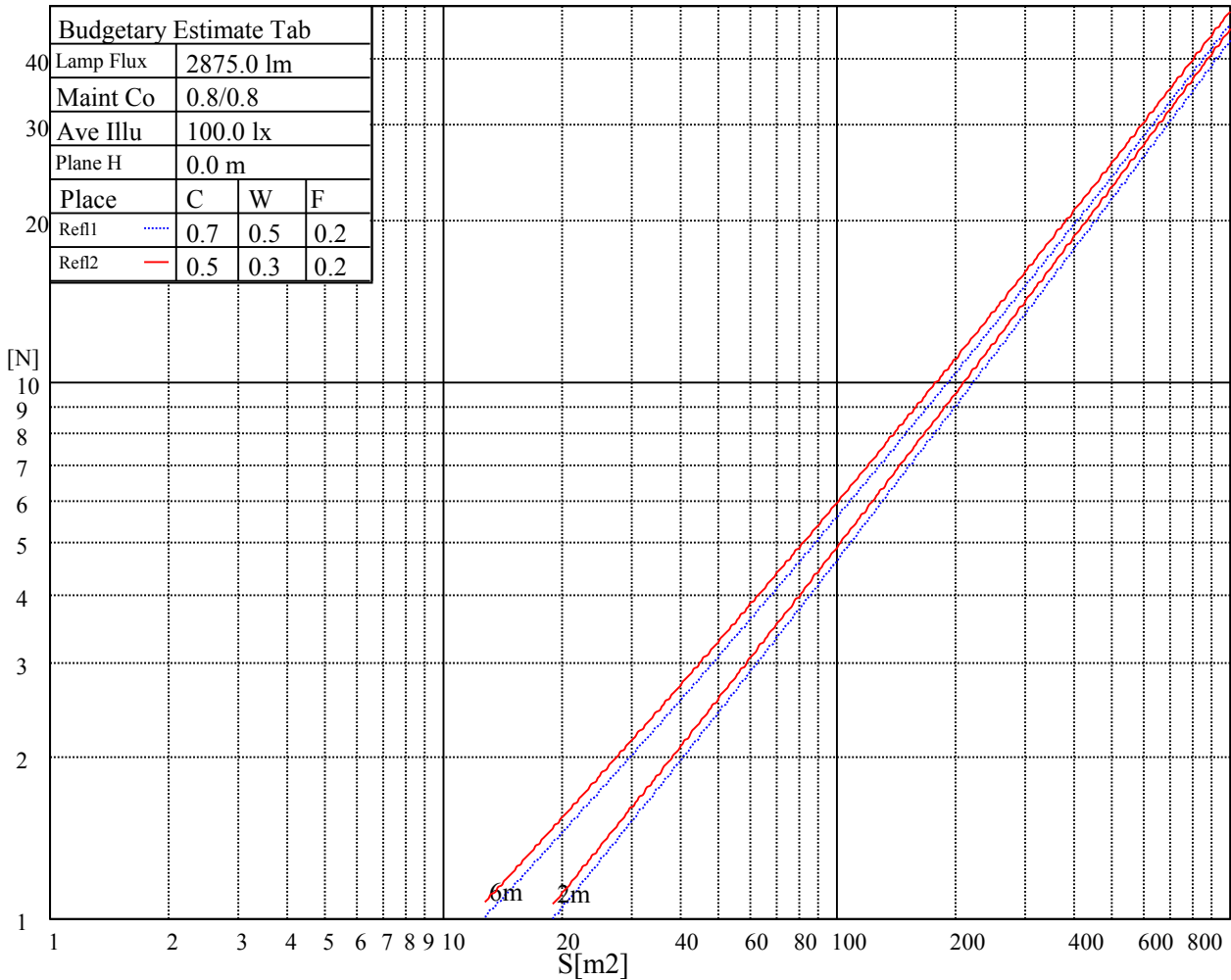
Glare Table

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

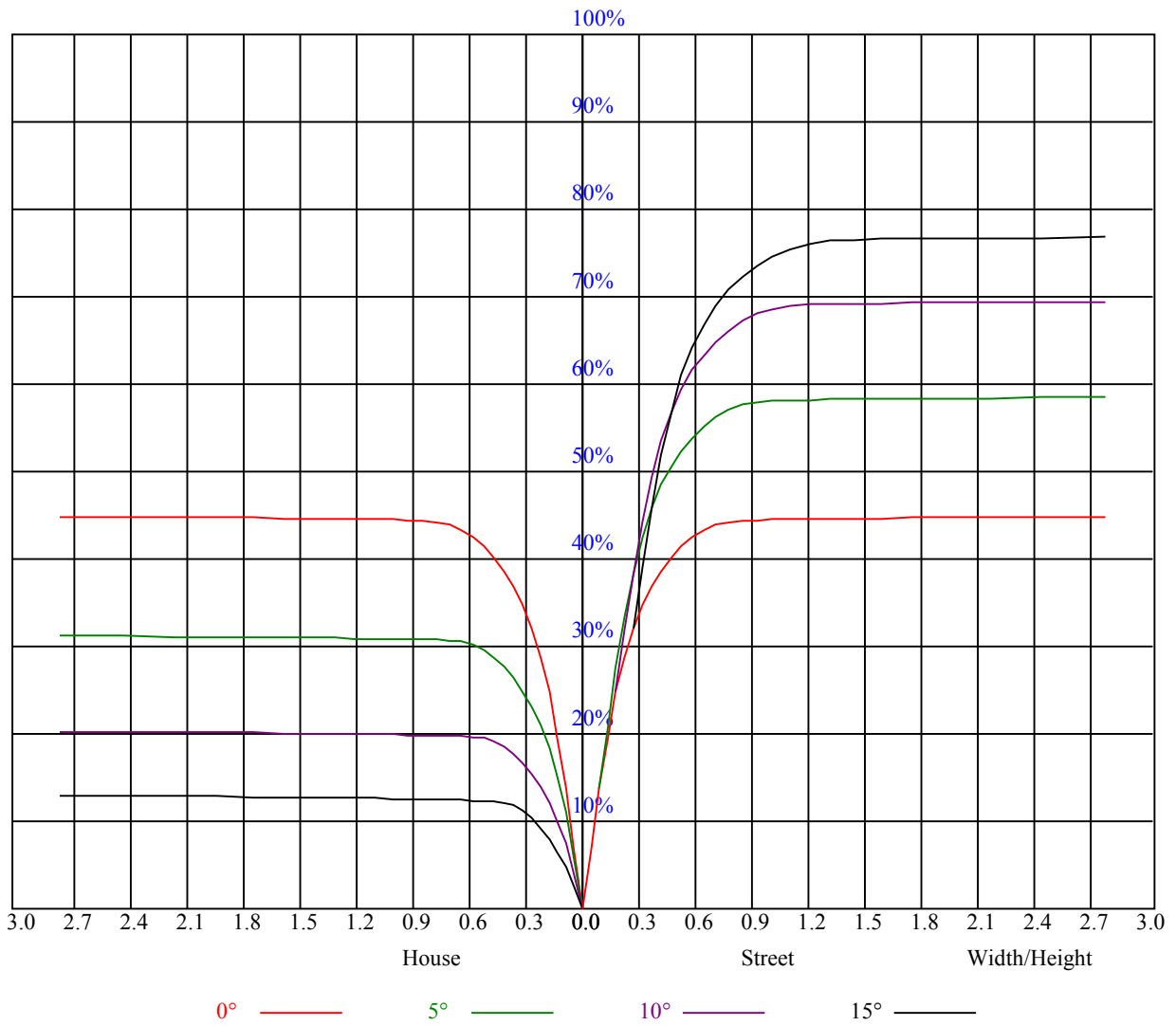
Luminance Limiting Curve



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	1.92	2.83	2.28	3.14	3.46	1.93	2.84	2.30	3.15	3.47
	3H	5.07	5.88	5.46	6.21	6.58	5.06	5.87	5.45	6.20	6.57
	4H	6.79	7.53	7.20	7.89	8.28	6.78	7.53	7.19	7.88	8.27
	6H	8.73	9.41	9.15	9.79	10.18	8.72	9.41	9.14	9.78	10.18
	8H	9.81	10.44	10.24	10.84	11.25	9.81	10.45	10.25	10.84	11.25
	12H	11.56	12.16	11.99	12.55	12.98	11.58	12.19	12.02	12.57	13.01
4H	2H	2.80	3.54	3.21	3.90	4.29	2.81	3.55	3.21	3.91	4.30
	3H	6.21	6.82	6.62	7.23	7.64	6.20	6.81	6.61	7.22	7.62
	4H	8.09	8.64	8.53	9.06	9.51	8.09	8.63	8.53	9.06	9.51
	6H	10.19	10.66	10.67	11.11	11.59	10.19	10.66	10.66	11.11	11.58
	8H	11.37	11.81	11.85	12.26	12.73	11.38	11.81	11.86	12.26	12.74
8H	12H	13.02	13.39	13.51	13.88	14.36	13.05	13.42	13.54	13.91	14.39
	4H	8.81	9.25	9.29	9.70	10.17	8.81	9.24	9.28	9.69	10.17
	6H	11.19	11.53	11.70	12.03	12.52	11.19	11.53	11.70	12.03	12.52
	8H	12.55	12.86	13.09	13.38	13.88	12.56	12.86	13.09	13.39	13.88
12H	12H	14.34	14.60	14.87	15.10	15.68	14.37	14.63	14.89	15.13	15.71
	4H	9.02	9.39	9.51	9.88	10.36	9.01	9.38	9.50	9.87	10.35
	6H	11.70	11.81	12.04	12.28	12.83	11.70	11.80	12.04	12.28	12.83
	8H	13.00	13.26	13.52	13.76	14.34	13.01	13.26	13.53	13.76	14.35
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/-4.0					9.2/-4.0					
Standard tables:	BK3					BK3					
Uncorrected UGR	1.0					1.0					



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	1.08	1.08	1.08	1.05	1.05	1.05	1.00	1.00	1.00	0.96	0.96	0.96	0.92	0.92	0.92	0.90
1	1.01	0.99	0.97	0.99	0.97	0.96	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	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	0.90	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.87	0.83	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.79	0.77	0.80	0.78	0.76	0.75
5	0.83	0.79	0.75	0.82	0.78	0.75	0.81	0.77	0.75	0.79	0.76	0.74	0.78	0.75	0.73	0.72
6	0.79	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.73	0.70	0.69
7	0.76	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.67
8	0.73	0.69	0.66	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.66	0.71	0.68	0.65	0.64
9	0.71	0.67	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.63	0.68	0.65	0.63	0.62
10	0.69	0.64	0.62	0.68	0.64	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.66	0.63	0.61	0.60





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	10442.81	10477.13	10329.75	10014.19	9653.06	9249.19	8682.75	8185.50	7657.88
45.0	10480.50	10368.00	10123.31	9796.50	9369.56	8885.25	8406.56	7819.31	7265.25
90.0	10452.94	10281.94	10001.25	9568.69	9164.25	8719.31	8150.06	7525.69	6950.81
135.0	10481.06	10376.44	10107.00	9779.06	9353.25	8869.50	8380.69	7776.56	7219.69
180.0	10442.81	10231.31	9892.13	9533.25	9065.25	8592.19	8003.25	7369.31	6792.19
225.0	10480.50	10394.44	10164.38	9756.00	9367.31	8931.38	8386.31	7798.50	7246.69
270.0	10452.94	10465.88	10292.63	9999.00	9583.88	9108.56	8641.69	8073.00	7540.31
315.0	10481.06	10406.81	10187.44	9779.06	9393.19	8955.56	8358.75	7847.44	7300.13
360.0	10442.81	10477.13	10329.75	10014.19	9653.06	9249.19	8682.75	8185.50	7657.88
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6974.44	6415.31	5855.63	5218.31	4595.06	4070.81	3532.50	3101.63	2673.00
45.0	6633.00	5981.06	5402.81	4761.56	4169.25	3687.75	3255.75	2811.94	2408.06
90.0	6293.25	5649.19	5083.88	4466.81	3957.75	3448.13	2988.56	2622.38	2297.25
135.0	6569.44	5912.44	5338.69	4774.50	4116.94	3642.75	3214.69	2732.06	2388.38
180.0	6208.31	5490.56	4932.00	4399.31	3782.25	3342.38	2944.69	2544.75	2207.25
225.0	6608.25	5968.13	5392.13	4753.13	4221.00	3678.19	3195.56	2808.56	2464.31
270.0	6913.69	6281.44	5717.25	5147.44	4458.38	3947.06	3472.31	2946.94	2585.25
315.0	6590.25	6093.00	5448.94	4743.00	4273.88	3713.06	3161.81	2817.56	2477.25
360.0	6974.44	6415.31	5855.63	5218.31	4595.06	4070.81	3532.50	3101.63	2673.00
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2319.19	2062.13	1827.56	1640.81	1505.25	1392.75	1284.75	1194.75	1130.06
45.0	2125.69	1900.13	1667.81	1523.81	1383.75	1283.63	1189.13	1125.56	1065.38
90.0	1969.88	1765.69	1600.31	1430.44	1321.31	1229.06	1117.07	1076.91	1035.56
135.0	2112.19	1856.25	1649.81	1512.00	1364.63	1251.56	1173.38	1108.69	1059.75
180.0	1959.19	1737.56	1577.81	1428.19	1305.56	1217.81	1115.78	1073.70	1039.22
225.0	2121.19	1904.06	1722.94	1541.25	1421.44	1317.94	1221.19	1121.46	1091.31
270.0	2285.44	2008.13	1785.94	1627.88	1483.31	1361.25	1268.44	1181.81	1121.06
315.0	2103.19	1910.81	1730.81	1535.06	1431.56	1330.88	1233.56	1119.43	1094.12
360.0	2319.19	2062.13	1827.56	1640.81	1505.25	1392.75	1284.75	1194.75	1130.06
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1078.88	1035.00	1001.25	973.69	942.75	906.75	841.50	745.88	635.06
45.0	1024.88	990.56	957.38	930.94	899.44	837.56	753.19	645.19	534.38
90.0	1003.84	968.06	939.38	912.32	878.01	803.59	715.89	606.88	503.72
135.0	1020.38	983.25	955.13	930.38	893.81	835.31	753.75	635.63	533.25
180.0	1005.24	961.37	938.98	915.36	870.36	786.83	696.26	584.94	481.89
225.0	1042.37	1009.97	975.99	942.13	917.78	860.06	754.65	668.48	564.86
270.0	1069.88	1032.19	999.56	971.44	939.38	898.31	826.88	711.56	608.63
315.0	1052.72	1014.36	980.49	954.73	923.29	862.99	782.33	673.48	569.70
360.0	1078.88	1035.00	1001.25	973.69	942.75	906.75	841.50	745.88	635.06
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	530.44	410.63	305.44	232.20	103.95	55.74	37.41	31.61	26.16
45.0	431.44	342.56	294.19	127.63	63.96	37.07	30.94	25.03	21.43
90.0	386.27	272.59	178.65	93.04	44.78	32.63	26.10	20.03	18.62
135.0	429.19	312.19	288.00	120.83	59.57	34.54	27.06	20.70	19.18
180.0	366.53	253.86	164.64	84.94	44.10	34.93	27.90	23.29	21.15
225.0	430.43	327.38	230.18	122.34	64.63	40.50	33.13	26.10	23.46
270.0	502.31	396.00	293.06	168.08	100.97	46.46	33.19	27.96	21.21
315.0	449.16	331.76	234.56	135.45	65.42	38.59	32.18	25.09	21.77
360.0	530.44	410.63	305.44	232.20	103.95	55.74	37.41	31.61	26.16

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	23.34	18.73	14.51	14.23	13.89	13.61	13.39	13.16	12.94
45.0	18.62	14.51	14.12	13.89	13.61	13.44	13.22	13.05	12.77
90.0	16.43	14.29	13.89	13.67	13.44	13.22	13.05	12.88	12.71
135.0	16.82	14.51	14.12	13.89	13.56	13.33	13.16	12.99	12.77
180.0	16.65	14.34	14.06	13.78	13.56	13.33	13.16	12.94	12.83
225.0	21.32	14.96	14.51	14.18	13.84	13.56	13.33	13.16	12.99
270.0	19.80	18.73	14.74	14.46	14.12	13.67	13.44	13.22	12.99
315.0	20.08	15.47	14.29	14.01	13.78	13.44	13.28	13.05	12.83
360.0	23.34	18.73	14.51	14.23	13.89	13.61	13.39	13.16	12.94
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.77	12.54	12.43	12.26	12.09	11.98	11.87	11.76	11.64
45.0	12.60	12.49	12.32	12.21	12.04	11.93	11.81	11.76	11.59
90.0	12.49	12.32	12.21	12.04	11.93	11.81	11.76	11.59	11.53
135.0	12.60	12.49	12.26	12.15	12.04	11.93	11.81	11.70	11.59
180.0	12.60	12.43	12.32	12.21	12.09	11.98	11.87	11.70	11.64
225.0	12.77	12.60	12.49	12.32	12.21	12.04	11.93	11.81	11.76
270.0	12.83	12.66	12.54	12.32	12.21	12.09	11.98	11.87	11.76
315.0	12.66	12.54	12.32	12.21	12.04	11.93	11.81	11.70	11.59
360.0	12.77	12.54	12.43	12.26	12.09	11.98	11.87	11.76	11.64
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	11.59	11.48	11.36	11.31	11.25	11.25	11.14	11.08	11.08
45.0	11.53	11.48	11.36	11.31	11.25	11.19	11.14	11.08	11.03
90.0	11.48	11.42	11.31	11.25	11.14	11.14	11.08	11.03	11.03
135.0	11.59	11.42	11.36	11.31	11.25	11.25	11.14	11.08	11.08
180.0	11.59	11.48	11.36	11.36	11.31	11.25	11.19	11.14	11.08
225.0	11.64	11.53	11.48	11.42	11.36	11.25	11.25	11.19	11.14
270.0	11.64	11.59	11.48	11.42	11.36	11.25	11.19	11.19	11.08
315.0	11.53	11.42	11.36	11.31	11.25	11.14	11.14	11.08	11.03
360.0	11.59	11.48	11.36	11.31	11.25	11.25	11.14	11.08	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	10.97	10.91	10.91	10.86	10.86	10.86	10.80	10.80
45.0	11.03	10.97	10.97	10.91	10.86	10.80	10.80	10.80	10.80
90.0	10.97	10.91	10.91	10.91	10.86	10.80	10.80	10.74	10.74
135.0	11.03	11.03	10.97	10.91	10.86	10.86	10.80	10.80	10.74
180.0	11.03	11.03	10.97	10.91	10.86	10.80	10.80	10.80	10.74
225.0	11.03	11.03	10.97	10.91	10.91	10.86	10.86	10.86	10.80
270.0	11.03	10.97	10.97	10.91	10.91	10.86	10.86	10.86	10.80
315.0	10.97	10.91	10.86	10.86	10.86	10.80	10.80	10.80	10.74
360.0	11.03	10.97	10.91	10.91	10.86	10.86	10.86	10.80	10.80
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	10.80	10.69	10.74	10.69	10.69	10.69	10.74	10.63	10.58
45.0	10.74	10.69	10.69	10.63	10.63	10.58	10.58	10.58	10.58
90.0	10.69	10.69	10.69	10.69	10.63	10.58	10.58	10.58	10.52
135.0	10.69	10.74	10.69	10.69	10.63	10.58	10.58	10.58	10.52
180.0	10.74	10.69	10.69	10.74	10.86	10.58	10.58	10.58	10.58
225.0	10.80	10.74	10.74	10.69	10.69	10.63	10.58	10.58	10.52
270.0	10.80	10.80	10.74	10.69	10.69	10.63	10.63	10.58	10.58
315.0	10.69	10.74	10.69	10.69	10.63	10.63	10.63	10.52	10.58
360.0	10.80	10.69	10.74	10.69	10.69	10.69	10.74	10.63	10.58

Intensity data(cd)

C/γ(°)	90.0
0.0	10.58
45.0	10.58
90.0	10.58
135.0	10.58
180.0	10.58
225.0	10.58
270.0	10.58
315.0	10.58
360.0	10.58