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## NATA

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LumCAT: 1449-E	
Luminaire: 92.70.051.00	
Report No: NATA0100	Voltage(V): 35.5000
Test No: GC2019010309	Current(A): 0.2600
LampCAT: BRIDGELUX V8E G7	Power (W): 9.2300
Lamp flux(lm): 1392.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 44	Width(mm): 44
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1253.38  
Efficiency(%): 90.04%  
Lumens(lm)/Power(W): 135.96  
Central intensity(cd): 6454.828  
Maximum intensity(cd): 6454.828  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=16.3  
                                  [C90/270]Total=16.3  
Field angle(10%Imax): [C0/180]Total=38.0  
                                  [C90/270]Total=38.0  
Maximum s/h(1/2): C0\_180=0.28 C90\_270=0.28  
Maximum s/h(1/4): C0\_180=0.28 C90\_270=0.28  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 90.15%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.461%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	6454.828	1.544	1.544	.111%	.123%
1.0	6387.750	12.225	13.769	.878%	1.099%
2.0	6167.672	23.604	37.374	1.696%	2.982%
3.0	5763.094	33.076	70.449	2.376%	5.621%
4.0	5336.297	40.820	111.27	2.932%	8.878%
5.0	4864.008	46.488	157.758	3.340%	12.587%
6.0	4350.867	49.873	207.63	3.583%	16.566%
7.0	3807.914	50.890	258.521	3.656%	20.626%
8.0	3298.008	50.334	308.854	3.616%	24.642%
9.0	2743.523	47.064	355.919	3.381%	28.397%
10.0	2241.773	42.689	398.607	3.067%	31.803%
11.0	1834.523	38.386	436.994	2.758%	34.865%
12.0	1420.784	32.394	469.387	2.327%	37.450%
13.0	1164.551	28.728	498.115	2.064%	39.742%
14.0	994.746	26.390	524.505	1.896%	41.847%
15.0	862.699	24.485	548.99	1.759%	43.801%
16.0	771.539	23.321	572.311	1.675%	45.661%
17.0	713.777	22.885	595.196	1.644%	47.487%
18.0	670.992	22.738	617.934	1.633%	49.301%
19.0	645.659	23.051	640.985	1.656%	51.140%
20.0	628.263	23.564	664.549	1.693%	53.020%
21.0	613.920	24.126	688.675	1.733%	54.945%
22.0	599.906	24.644	713.319	1.770%	56.912%
23.0	585.872	25.103	738.423	1.803%	58.914%
24.0	572.098	25.517	763.94	1.833%	60.950%
25.0	557.234	25.825	789.765	1.855%	63.011%
26.0	543.698	26.137	815.902	1.878%	65.096%
27.0	528.398	26.306	842.208	1.890%	67.195%
28.0	515.327	26.530	868.738	1.906%	69.312%
29.0	503.571	26.772	895.511	1.923%	71.448%
30.0	492.441	27.001	922.511	1.940%	73.602%
31.0	480.178	27.120	949.632	1.948%	75.766%
32.0	468.724	27.238	976.87	1.957%	77.939%
33.0	457.791	27.342	1004.212	1.964%	80.120%
34.0	446.168	27.360	1031.571	1.965%	82.303%
35.0	434.081	27.303	1058.875	1.961%	84.481%
36.0	411.940	26.552	1085.427	1.908%	86.600%
37.0	383.597	25.316	1110.743	1.819%	88.620%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	343.877	23.217	1133.959	1.668%	90.472%
39.0	298.976	20.633	1154.592	1.482%	92.118%
40.0	258.244	18.203	1172.795	1.308%	93.570%
41.0	212.323	15.275	1188.071	1.097%	94.789%
42.0	161.177	11.827	1199.897	.850%	95.733%
43.0	117.063	8.755	1208.652	.629%	96.431%
44.0	79.446	6.052	1214.704	.435%	96.914%
45.0	49.570	3.844	1218.548	.276%	97.221%
46.0	33.968	2.680	1221.228	.192%	97.435%
47.0	27.359	2.194	1223.422	.158%	97.610%
48.0	23.681	1.930	1225.352	.139%	97.764%
49.0	20.257	1.677	1227.028	.120%	97.897%
50.0	15.251	1.281	1228.309	.092%	98.000%
51.0	11.391	0.971	1229.28	.070%	98.077%
52.0	9.816	0.848	1230.128	.061%	98.145%
53.0	8.937	0.783	1230.911	.056%	98.207%
54.0	8.269	0.734	1231.645	.053%	98.266%
55.0	7.784	0.699	1232.344	.050%	98.321%
56.0	7.369	0.670	1233.014	.048%	98.375%
57.0	7.109	0.654	1233.668	.047%	98.427%
58.0	6.898	0.641	1234.309	.046%	98.478%
59.0	6.736	0.633	1234.942	.045%	98.529%
60.0	6.581	0.625	1235.567	.045%	98.579%
61.0	6.469	0.620	1236.188	.045%	98.628%
62.0	6.377	0.617	1236.805	.044%	98.677%
63.0	6.321	0.618	1237.423	.044%	98.727%
64.0	6.237	0.615	1238.037	.044%	98.776%
65.0	6.180	0.614	1238.652	.044%	98.825%
66.0	6.145	0.616	1239.267	.044%	98.874%
67.0	6.096	0.615	1239.883	.044%	98.923%
68.0	6.068	0.617	1240.5	.044%	98.972%
69.0	6.012	0.615	1241.115	.044%	99.021%
70.0	5.970	0.615	1241.73	.044%	99.070%
71.0	5.920	0.614	1242.344	.044%	99.119%
72.0	5.878	0.613	1242.957	.044%	99.168%
73.0	5.850	0.613	1243.571	.044%	99.217%
74.0	5.787	0.610	1244.181	.044%	99.266%
75.0	5.730	0.607	1244.788	.044%	99.314%

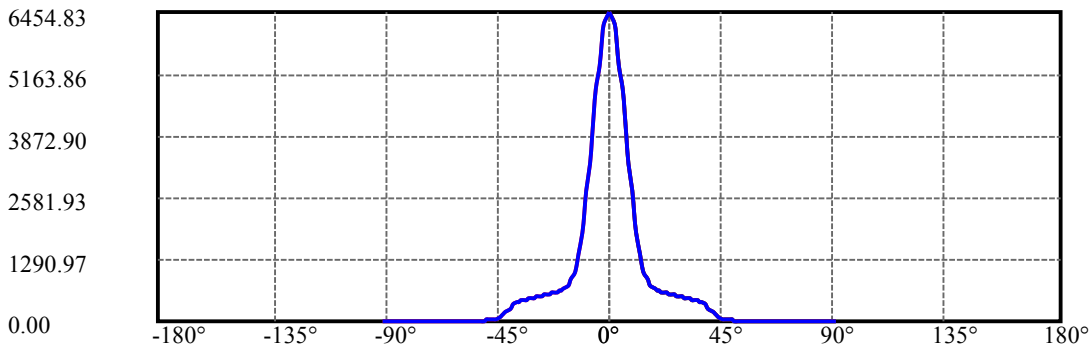
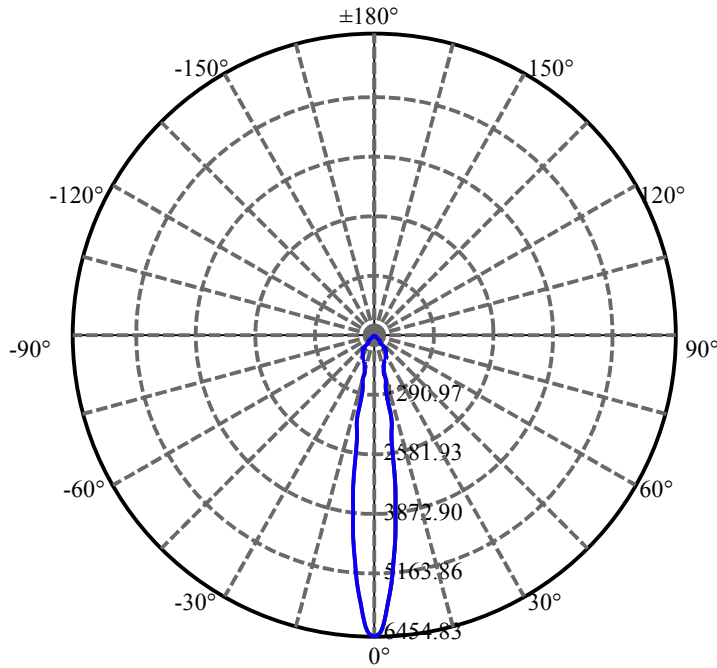
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.702	0.607	1245.394	.044%	99.363%
77.0	5.653	0.604	1245.998	.043%	99.411%
78.0	5.604	0.601	1246.6	.043%	99.459%
79.0	5.569	0.599	1247.199	.043%	99.507%
80.0	5.541	0.598	1247.797	.043%	99.554%
81.0	5.527	0.599	1248.396	.043%	99.602%
82.0	5.513	0.599	1248.995	.043%	99.650%
83.0	5.484	0.597	1249.591	.043%	99.698%
84.0	5.520	0.602	1250.193	.043%	99.746%
85.0	5.569	0.608	1250.802	.044%	99.794%
86.0	5.583	0.611	1251.413	.044%	99.843%
87.0	5.252	0.575	1251.988	.041%	99.889%
88.0	5.168	0.566	1252.554	.041%	99.934%
89.0	5.070	0.556	1253.11	.040%	99.978%
90.0	4.971	0.273	1253.382	.020%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	922.51	66.27%	73.60%
0-40	1172.80	84.25%	93.57%
0-60	1235.57	88.76%	98.58%
0-90	1253.11	90.02%	99.98%
0-120	1253.11	90.02%	99.98%
0-180	1253.38	90.04%	100.00%
60-90	18.17	1.31%	1.45%
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%
0-32.94	1002.71	72.03%	80.00%

ZONAL LUMEN SUMMARY

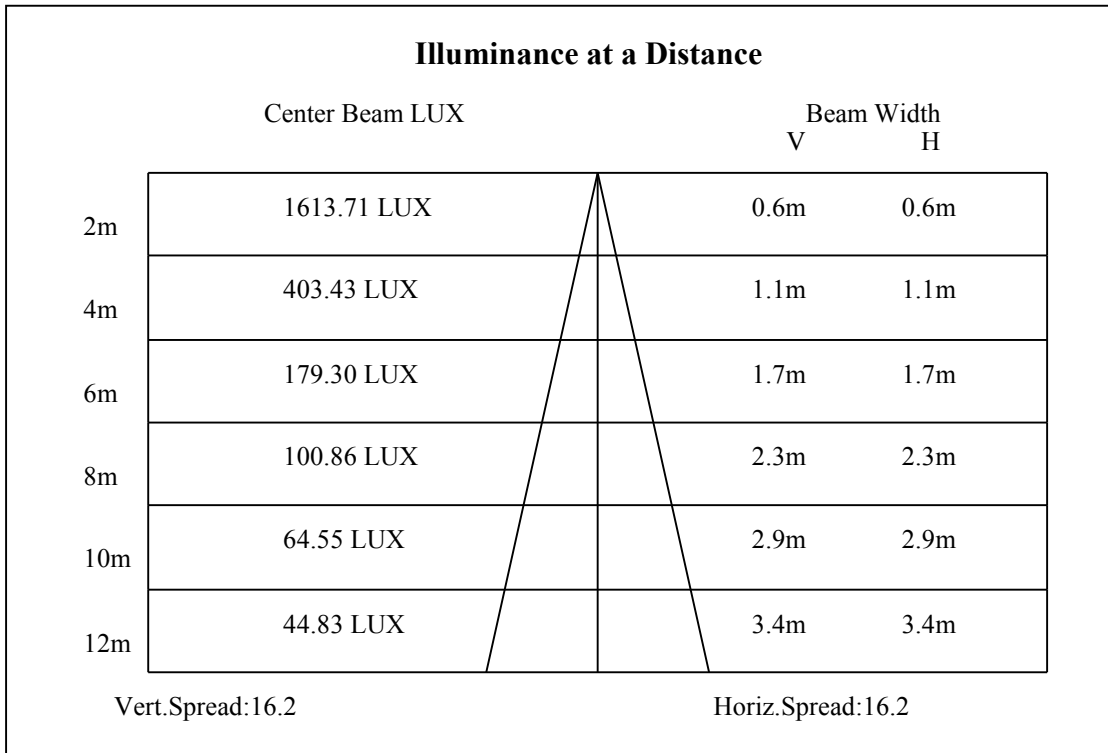
0-10	398.61
10-20	265.94
20-30	257.96
30-40	250.28
40-50	55.51
50-60	7.26
60-70	6.16
70-80	6.07
80-90	5.31
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

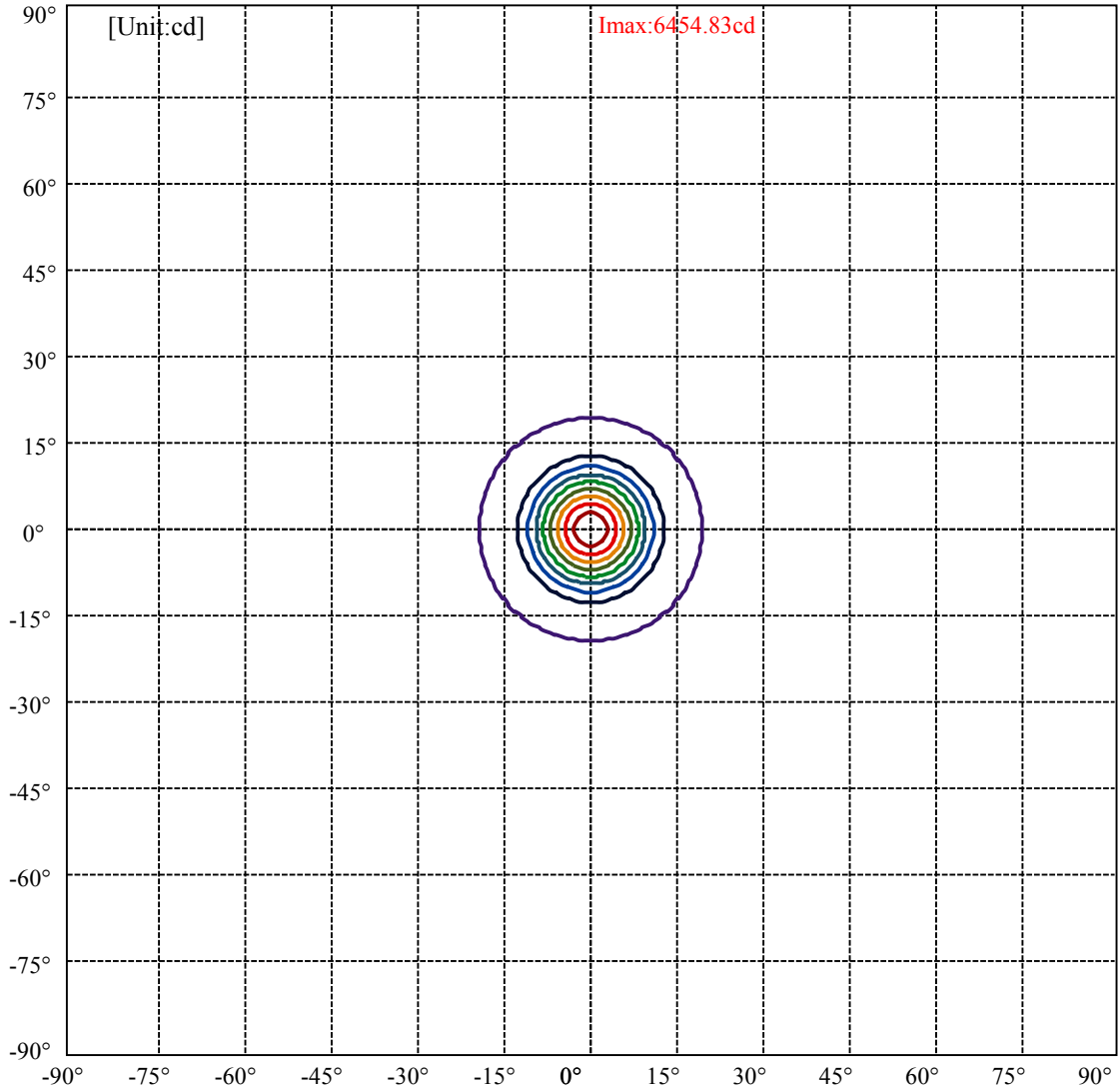


C0(Max): —————  
C0/C180: —————  
C90/C270: —————

Field angle(10%Imax):C0/180Left:19.0 Right:19.0  
:C90/270Left:19.0 Right:19.0

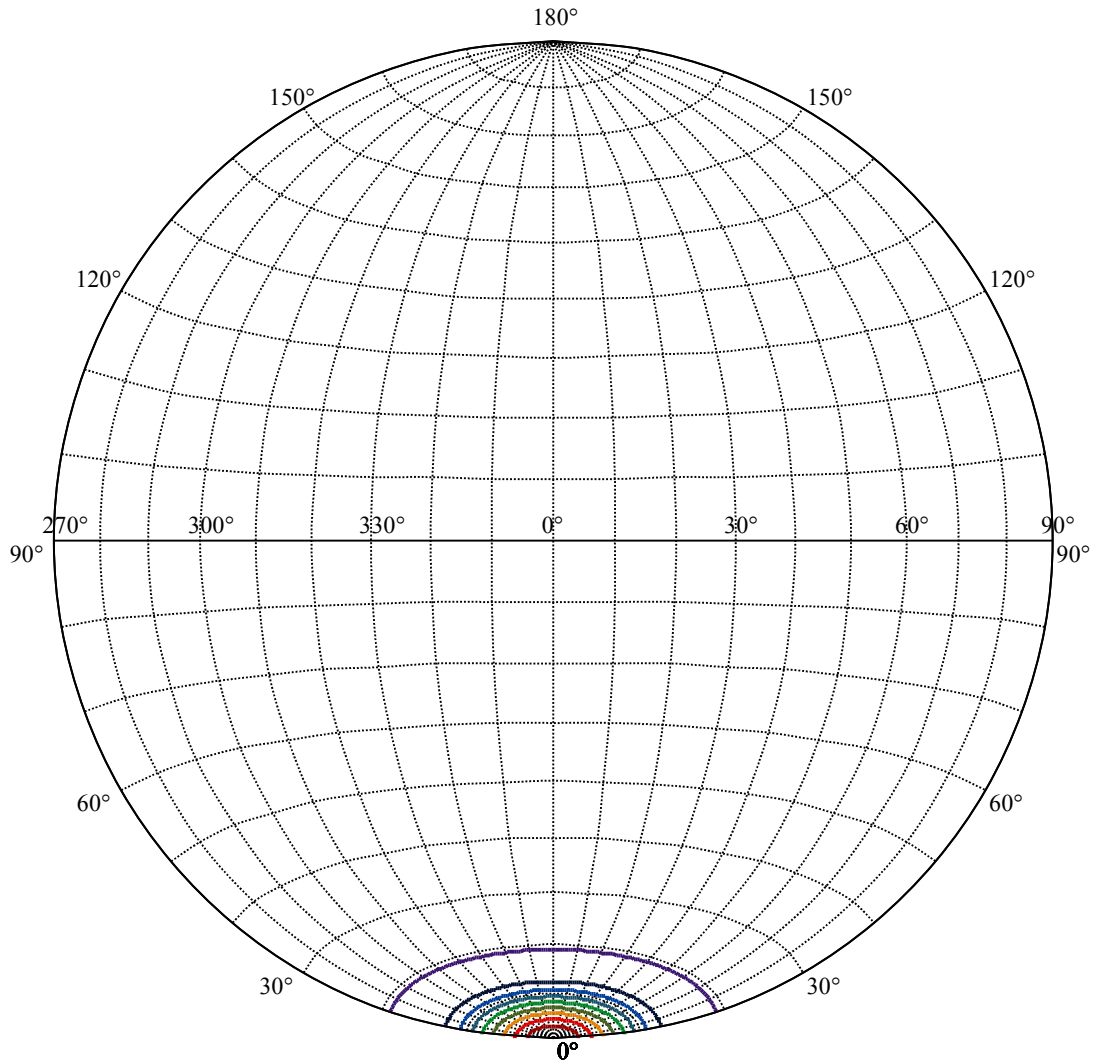
Beam Angle(50%Imax):C0/180Left:8.1 Right:8.1  
:C90/270Left:8.1 Right:8.1





(10%Imax) 645.483	—
(20%Imax) 1290.97	—
(30%Imax) 1936.45	—
(40%Imax) 2581.93	—
(50%Imax) 3227.41	—
(60%Imax) 3872.9	—
(70%Imax) 4518.38	—
(80%Imax) 5163.86	—
(90%Imax) 5809.35	—





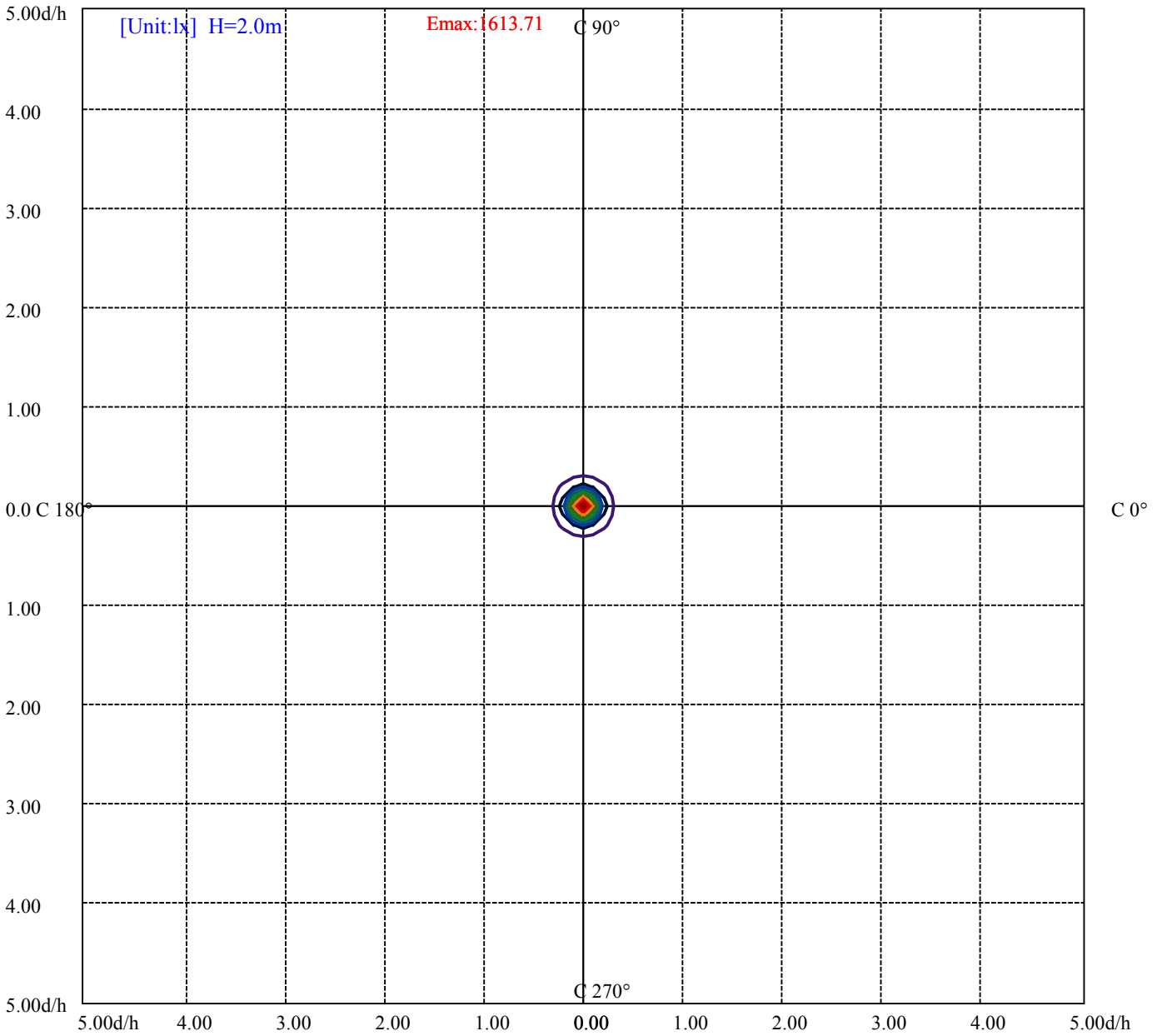
House

[Unit:cd]

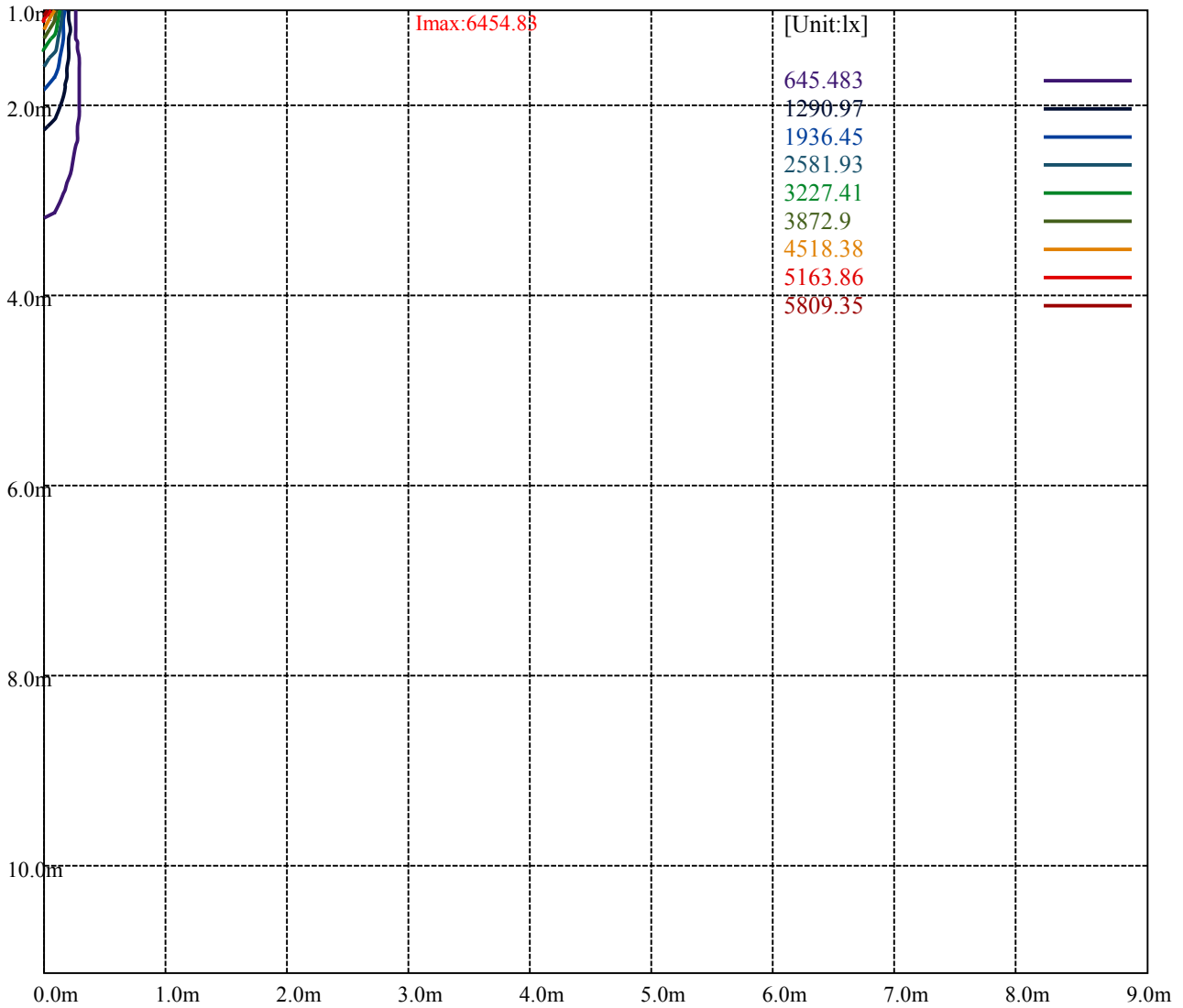
Road

Imax:6454.83

(10%Imax) 645.483	—
(20%Imax) 1290.97	—
(30%Imax) 1936.45	—
(40%Imax) 2581.93	—
(50%Imax) 3227.41	—
(60%Imax) 3872.9	—
(70%Imax) 4518.38	—
(80%Imax) 5163.86	—
(90%Imax) 5809.35	—



- (10%Emax) 161.3705
- (20%Emax) 322.74
- (30%Emax) 484.1125
- (40%Emax) 645.4825
- (50%Emax) 806.8525
- (60%Emax) 968.2225
- (70%Emax) 1129.593
- (80%Emax) 1290.963
- (90%Emax) 1452.335



Luminance Table

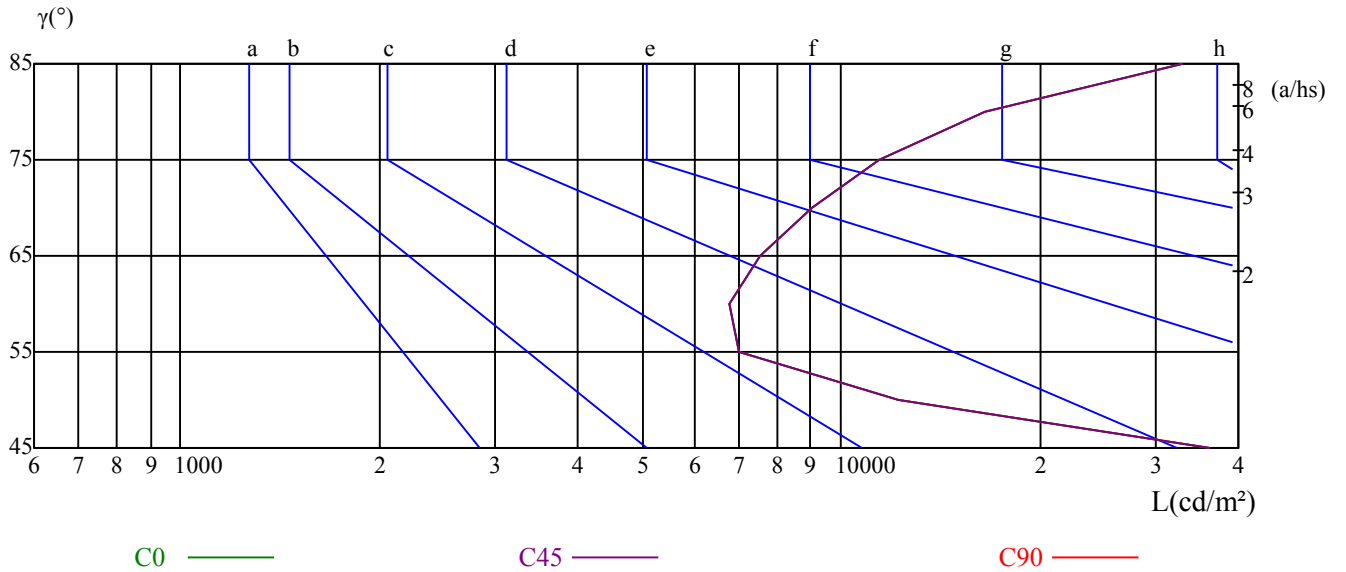
$\gamma$	45	50	55	60	65	70	75	80	85
C0	36210	12255	7009	6799	7554	9015	11436	16481	33003
C45	36210	12255	7009	6799	7554	9015	11436	16481	33003
C90	36210	12255	7009	6799	7554	9015	11436	16481	33003

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
7554	7554	7554	11436	11436	11436	33003	33003	33003

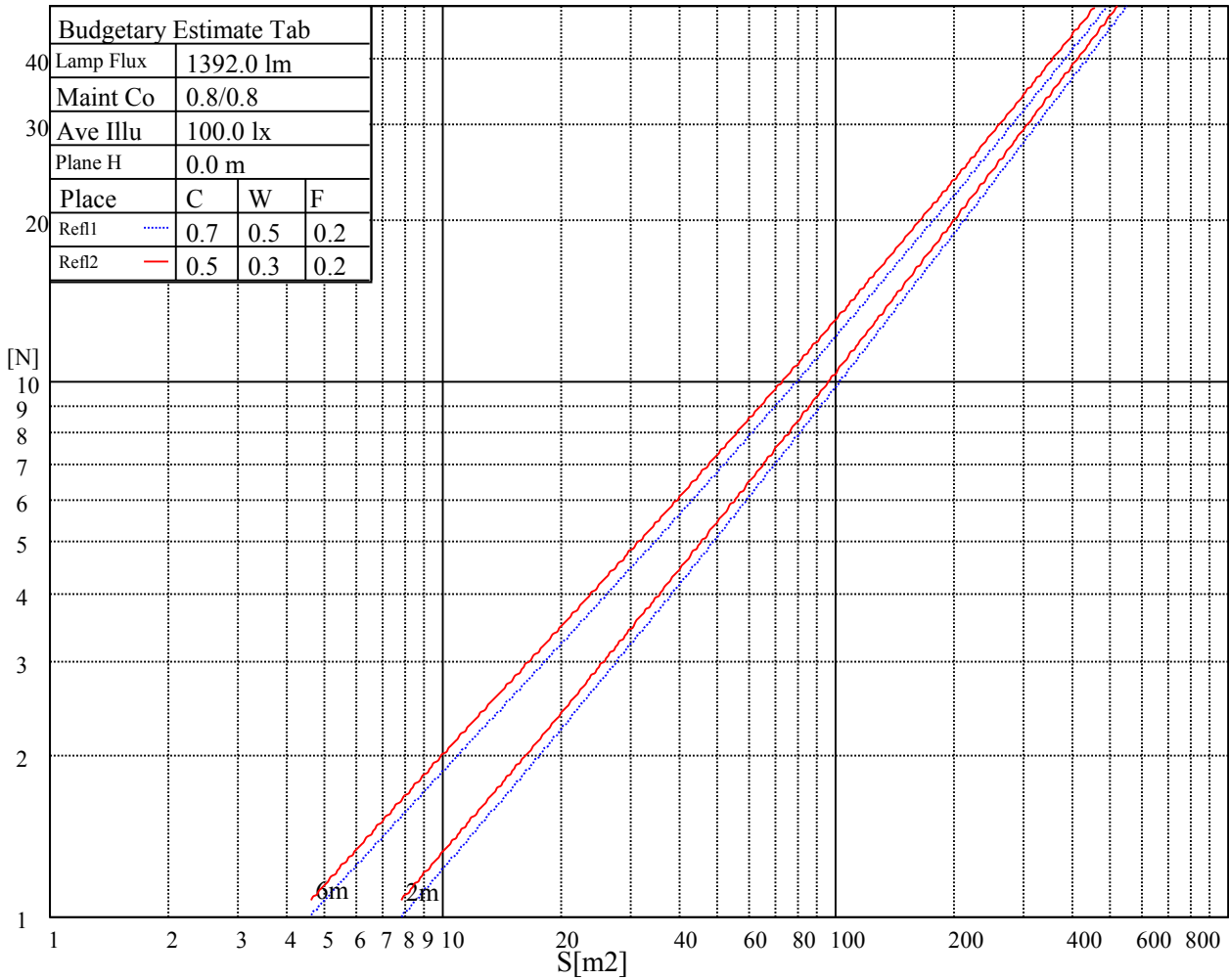
Glare Table

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

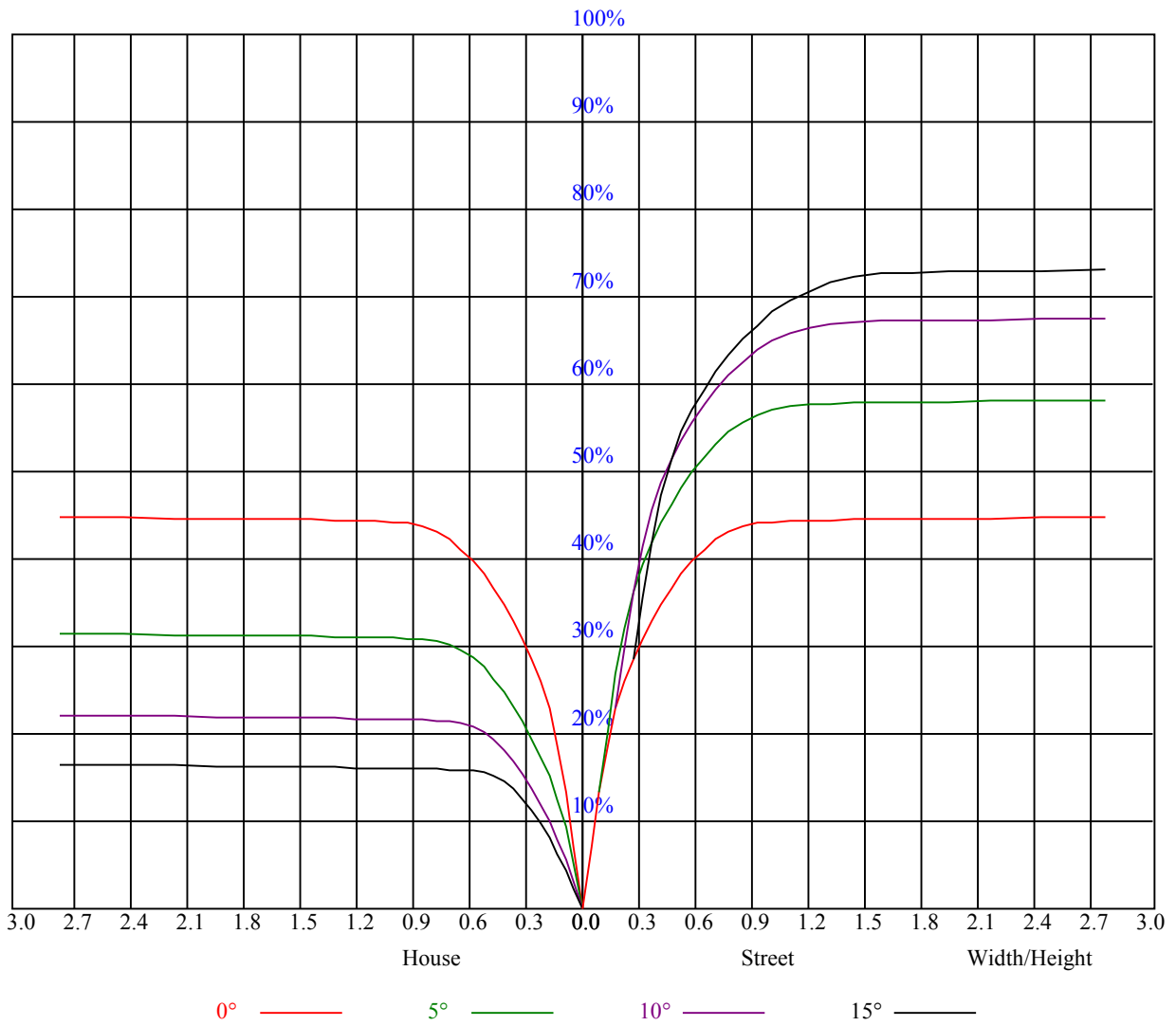
Luminance Limiting Curve



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	7.37	8.32	7.73	8.63	8.94	7.28	8.22	7.64	8.54	8.85
	3H	10.24	11.08	10.62	11.41	11.78	10.02	10.86	10.40	11.19	11.56
	4H	11.85	12.62	12.26	12.98	13.37	11.58	12.35	11.98	12.70	13.09
	6H	13.68	14.39	14.10	14.76	15.16	13.35	14.05	13.77	14.43	14.83
	8H	14.74	15.40	15.18	15.79	16.21	14.35	15.02	14.79	15.41	15.82
	12H	16.52	17.16	16.96	17.54	17.97	16.03	16.67	16.47	17.05	17.48
4H	2H	8.06	8.83	8.47	9.19	9.58	7.99	8.77	8.40	9.12	9.51
	3H	11.24	11.87	11.66	12.28	12.69	11.06	11.69	11.47	12.10	12.51
	4H	13.04	13.61	13.48	14.03	14.48	12.81	13.37	13.25	13.80	14.25
	6H	14.98	15.47	15.46	15.92	16.39	14.72	15.20	15.19	15.66	16.13
	8H	16.18	16.63	16.66	17.08	17.56	15.85	16.30	16.33	16.75	17.23
	12H	17.91	18.30	18.40	18.79	19.26	17.47	17.85	17.96	18.34	18.82
8H	4H	13.67	14.12	14.14	14.57	15.04	13.48	13.93	13.96	14.38	14.86
	6H	15.91	16.27	16.42	16.77	17.26	15.68	16.04	16.19	16.54	17.03
	8H	17.30	17.62	17.84	18.14	18.64	17.01	17.32	17.54	17.85	18.34
	12H	19.18	19.45	19.70	19.95	20.53	18.78	19.05	19.30	19.55	20.13
12H	4H	13.84	14.22	14.33	14.71	15.19	13.68	14.07	14.17	14.56	15.03
	6H	16.42	16.51	16.73	16.98	17.53	16.23	16.31	16.53	16.78	17.33
	8H	17.71	17.98	18.24	18.48	19.07	17.45	17.72	17.97	18.22	18.80
Variation with the observer position at spacings:											
S = 1.0H	3.9/-9.2					3.9/-9.2					
S = 1.5H	6.2/-7.3					6.2/-7.3					
S = 2.0H	7.9/-6.0					7.9/-6.0					
Standard tables:	BK1					BK1					
Uncorrected UGR	4.9					4.9					



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	1.05	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	1.00	0.98	0.96	0.98	0.96	0.95	0.95	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.87	0.85
2	0.94	0.91	0.88	0.93	0.90	0.87	0.90	0.87	0.85	0.87	0.85	0.83	0.85	0.83	0.82	0.80
3	0.89	0.85	0.82	0.88	0.84	0.81	0.85	0.82	0.80	0.83	0.81	0.78	0.81	0.79	0.77	0.76
4	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.79	0.77	0.74	0.78	0.75	0.73	0.72
5	0.80	0.75	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.70	0.75	0.72	0.70	0.69
6	0.76	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.65
7	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.62
8	0.70	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.61	0.67	0.64	0.61	0.66	0.63	0.61	0.60
9	0.67	0.62	0.59	0.66	0.62	0.59	0.66	0.62	0.59	0.65	0.61	0.59	0.64	0.61	0.58	0.57
10	0.64	0.60	0.57	0.64	0.60	0.57	0.63	0.59	0.57	0.63	0.59	0.56	0.62	0.59	0.56	0.55





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	6435.56	6507.56	6388.88	6126.19	5757.19	5190.75	4705.31	4255.31	3795.75
45.0	6461.44	6485.06	6320.81	5913.56	5522.06	5074.31	4544.44	4068.00	3578.06
90.0	6446.81	6301.13	5995.69	5554.13	5106.94	4647.38	4156.31	3517.31	2989.69
135.0	6475.50	6348.94	6111.00	5668.31	5253.19	4807.13	4178.25	3656.81	3117.38
180.0	6435.56	6234.19	5886.56	5431.50	5010.75	4483.13	3972.38	3370.50	2784.94
225.0	6461.44	6319.69	6026.06	5563.69	5109.19	4652.44	4161.38	3546.00	3023.44
270.0	6446.81	6461.44	6329.25	5923.69	5521.50	5054.63	4555.13	4084.88	3614.63
315.0	6475.50	6444.00	6283.13	5923.69	5409.56	5002.31	4533.75	3964.50	3480.19
360.0	6435.56	6507.56	6388.88	6126.19	5757.19	5190.75	4705.31	4255.31	3795.75
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3195.56	2728.13	2280.94	1836.00	1458.00	1208.81	1018.13	888.19	808.31
45.0	2948.63	2475.56	2044.13	1627.31	1295.44	1078.31	907.31	803.81	735.75
90.0	2502.56	1959.19	1594.13	1121.68	1050.92	881.10	778.11	704.42	658.46
135.0	2497.50	2048.06	1658.25	1299.38	1045.13	896.06	784.69	713.25	673.88
180.0	2294.44	1821.38	1433.25	1114.93	982.24	831.66	755.94	702.73	663.75
225.0	2530.69	1974.38	1595.25	1104.47	1058.57	899.27	802.74	723.88	679.16
270.0	2989.13	2511.56	2077.88	1647.00	1311.75	1089.56	917.44	798.19	729.56
315.0	2989.69	2415.94	1992.38	1615.50	1114.37	1073.19	937.24	837.84	761.34
360.0	3195.56	2728.13	2280.94	1836.00	1458.00	1208.81	1018.13	888.19	808.31
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	744.75	708.75	684.00	666.00	651.38	634.50	617.06	600.19	585.00
45.0	684.56	655.88	637.88	623.81	608.06	594.00	579.38	565.88	553.50
90.0	621.39	604.01	587.76	574.99	561.94	542.64	526.89	512.72	499.39
135.0	643.50	626.63	614.25	604.69	591.75	577.69	568.13	555.75	542.25
180.0	639.45	623.70	612.45	602.10	591.13	581.12	570.60	556.88	542.19
225.0	643.73	619.71	607.78	594.79	580.56	570.49	558.56	540.90	529.88
270.0	676.13	642.38	620.44	604.13	588.94	576.56	559.69	545.63	533.81
315.0	714.43	684.23	661.56	640.86	625.50	609.98	596.48	579.94	563.57
360.0	744.75	708.75	684.00	666.00	651.38	634.50	617.06	600.19	585.00
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	560.25	543.38	531.00	514.13	499.50	488.25	473.63	461.25	452.25
45.0	536.63	524.25	511.88	498.38	485.44	473.63	461.25	450.00	439.31
90.0	489.77	472.95	460.58	454.73	444.38	435.60	427.05	415.97	404.94
135.0	531.00	523.13	513.00	504.56	491.63	480.38	468.00	455.63	441.00
180.0	528.92	517.50	504.17	492.64	481.50	466.88	455.63	442.13	423.28
225.0	516.43	505.24	496.18	488.03	476.10	468.39	461.81	451.74	439.99
270.0	515.81	504.00	494.44	482.63	470.81	459.56	449.44	437.63	428.63
315.0	548.38	532.18	517.33	504.45	492.08	477.11	465.53	455.01	443.25
360.0	560.25	543.38	531.00	514.13	499.50	488.25	473.63	461.25	452.25
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	437.06	420.75	389.25	341.44	298.69	287.44	197.72	154.01	110.81
45.0	423.56	397.69	357.75	319.50	288.56	227.59	180.73	131.57	93.66
90.0	379.41	350.66	310.73	264.71	223.09	176.79	136.69	97.59	64.52
135.0	411.75	374.63	330.75	286.88	235.52	192.60	138.77	101.64	68.46
180.0	386.16	348.86	302.23	252.56	210.32	160.09	118.07	77.12	43.54
225.0	416.93	379.86	342.84	294.69	248.01	200.14	157.33	106.37	69.69
270.0	413.44	393.19	354.94	313.88	286.88	228.66	177.98	137.14	98.49
315.0	427.22	403.14	362.53	318.15	274.89	225.28	182.14	131.06	86.40
360.0	437.06	420.75	389.25	341.44	298.69	287.44	197.72	154.01	110.81

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	65.36	38.25	25.14	21.21	17.33	15.64	11.36	7.48	7.31
45.0	59.96	35.72	29.81	27.62	24.58	21.66	9.68	8.33	7.76
90.0	46.24	36.28	30.15	26.38	21.32	13.33	11.48	10.13	9.00
135.0	42.98	34.99	33.02	29.53	25.65	16.59	14.34	12.54	10.80
180.0	27.39	23.34	20.03	18.62	16.93	10.07	9.90	9.68	9.51
225.0	46.01	35.04	28.58	24.30	21.38	14.12	12.15	10.41	8.94
270.0	58.22	39.09	31.05	25.03	20.70	17.61	13.28	11.42	10.13
315.0	50.40	29.03	21.09	16.76	14.18	12.99	8.94	8.55	8.04
360.0	65.36	38.25	25.14	21.21	17.33	15.64	11.36	7.48	7.31
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.20	7.14	6.92	6.81	6.75	6.64	6.47	6.36	6.24
45.0	7.43	7.09	6.81	6.69	6.53	6.41	6.36	6.30	6.30
90.0	8.21	7.76	7.43	7.14	6.92	6.81	6.69	6.58	6.47
135.0	9.34	8.33	7.54	7.09	6.86	6.69	6.53	6.41	6.30
180.0	9.23	8.78	8.21	7.88	7.43	7.03	6.81	6.64	6.36
225.0	7.93	7.37	7.03	6.81	6.64	6.58	6.41	6.30	6.30
270.0	9.17	8.44	7.99	7.65	7.43	7.26	7.03	6.92	6.81
315.0	7.65	7.37	7.03	6.81	6.64	6.47	6.36	6.24	6.24
360.0	7.20	7.14	6.92	6.81	6.75	6.64	6.47	6.36	6.24
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	6.24	6.19	6.08	6.08	6.02	6.02	5.91	5.91	5.91
45.0	6.24	6.13	6.13	6.08	6.08	6.02	6.02	5.96	5.91
90.0	6.41	6.36	6.30	6.24	6.19	6.13	6.13	6.08	6.02
135.0	6.24	6.13	6.13	6.13	5.96	5.96	5.85	5.79	5.79
180.0	6.30	6.19	6.13	6.08	6.02	5.96	5.91	5.85	5.74
225.0	6.24	6.19	6.08	6.08	6.02	5.96	5.96	5.85	5.79
270.0	6.75	6.64	6.58	6.53	6.47	6.47	6.41	6.41	6.36
315.0	6.13	6.08	6.02	5.96	5.96	5.96	5.91	5.91	5.85
360.0	6.24	6.19	6.08	6.08	6.02	6.02	5.91	5.91	5.91
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	5.96	5.96	5.91	5.79	5.74	5.63	5.51	5.51	5.46
45.0	5.85	5.85	5.79	5.74	5.68	5.68	5.63	5.57	5.57
90.0	5.96	5.96	5.85	5.85	5.79	5.79	5.74	5.63	5.57
135.0	5.68	5.63	5.63	5.51	5.46	5.40	5.40	5.40	5.40
180.0	5.74	5.68	5.51	5.51	5.51	5.40	5.46	5.40	5.46
225.0	5.74	5.68	5.63	5.57	5.57	5.51	5.46	5.40	5.40
270.0	6.30	6.30	6.24	6.19	6.19	6.13	6.08	6.08	6.08
315.0	5.79	5.74	5.74	5.68	5.68	5.68	5.57	5.57	5.40
360.0	5.96	5.96	5.91	5.79	5.74	5.63	5.51	5.51	5.46
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.40	5.34	5.40	5.40	5.40	5.34	5.18	5.18	5.18
45.0	5.51	5.51	5.46	5.51	5.57	5.63	5.06	5.06	5.01
90.0	5.63	5.68	5.46	5.46	5.51	5.51	4.95	4.89	4.84
135.0	5.40	5.34	5.40	5.40	5.46	5.51	5.57	5.06	5.01
180.0	5.46	5.40	5.34	5.34	5.40	5.46	5.12	5.06	5.01
225.0	5.34	5.34	5.34	5.34	5.40	5.46	5.01	4.95	4.95
270.0	6.08	6.13	6.19	6.36	6.53	6.64	6.08	6.02	5.51
315.0	5.40	5.34	5.29	5.34	5.29	5.12	5.06	5.12	5.06
360.0	5.40	5.34	5.40	5.40	5.40	5.34	5.18	5.18	5.18

Intensity data(cd)

<b>C/γ(°)</b>	<b>90.0</b>
<b>0.0</b>	<b>5.12</b>
<b>45.0</b>	<b>4.95</b>
<b>90.0</b>	<b>4.84</b>
<b>135.0</b>	<b>4.89</b>
<b>180.0</b>	<b>4.95</b>
<b>225.0</b>	<b>4.95</b>
<b>270.0</b>	<b>5.01</b>
<b>315.0</b>	<b>5.06</b>
<b>360.0</b>	<b>5.12</b>