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Nata

LumCAT: 4-2219-A
Luminaire: BJB47.319.2030
Report No: NT2017091908
Test No: GC2017091908
LampCAT: CITIZEN CLU044
Lamp flux(lm): 5761.0
Number of Lamps: 1
Length(mm): 100
Phm Type: C

Voltage(V): 51.4000
Current(A): 0.8000
Power (W): 41.1200
PF: 0.0000
Ballast type: DC
Width(mm): 100
Height(mm): 0

Photometric Results

Lumens(lm): 5156.98
Efficiency(%): 89.52%
Lumens(lm)/Power(W): 125.49
Central intensity(cd): 14525.260
Maximum intensity(cd): 14525.260
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=20.8
 [C90/270]Total=20.8
Field angle(10%Imax): [C0/180]Total=69.5
 [C90/270]Total=69.5
Maximum s/h(1/2): C0_180=0.35 C90_270=0.35
Maximum s/h(1/4): C0_180=0.51 C90_270=0.51
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.57%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.594%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	14525.255	3.475	3.475	.060%	.067%
1.0	14457.122	27.669	31.144	.480%	.604%
2.0	14219.004	54.418	85.561	.945%	1.659%
3.0	13846.685	79.469	165.03	1.379%	3.200%
4.0	13365.629	102.241	267.272	1.775%	5.183%
5.0	12629.250	120.705	387.977	2.095%	7.523%
6.0	11631.766	133.331	521.308	2.314%	10.109%
7.0	10707.988	143.105	664.413	2.484%	12.884%
8.0	9616.151	146.760	811.173	2.547%	15.730%
9.0	8487.357	145.598	956.771	2.527%	18.553%
10.0	7551.261	143.794	1100.565	2.496%	21.341%
11.0	6827.269	142.856	1243.421	2.480%	24.111%
12.0	6319.787	144.090	1387.511	2.501%	26.905%
13.0	5942.788	146.599	1534.11	2.545%	29.748%
14.0	5620.570	149.110	1683.22	2.588%	32.640%
15.0	5373.161	152.503	1835.722	2.647%	35.597%
16.0	5135.248	155.221	1990.944	2.694%	38.607%
17.0	4908.072	157.361	2148.305	2.731%	41.658%
18.0	4687.708	158.853	2307.158	2.757%	44.739%
19.0	4500.310	160.670	2467.828	2.789%	47.854%
20.0	4301.763	161.343	2629.171	2.801%	50.983%
21.0	4118.838	161.866	2791.037	2.810%	54.122%
22.0	3962.753	162.789	2953.826	2.826%	57.278%
23.0	3801.507	162.887	3116.712	2.827%	60.437%
24.0	3644.871	162.573	3279.285	2.822%	63.589%
25.0	3487.204	161.613	3440.898	2.805%	66.723%
26.0	3322.585	159.724	3600.622	2.773%	69.820%
27.0	3147.024	156.675	3757.297	2.720%	72.858%
28.0	2991.971	154.035	3911.331	2.674%	75.845%
29.0	2823.499	150.110	4061.442	2.606%	78.756%
30.0	2660.876	145.897	4207.339	2.532%	81.585%
31.0	2439.893	137.804	4345.143	2.392%	84.257%
32.0	2182.573	126.832	4471.975	2.202%	86.717%
33.0	1929.658	115.250	4587.225	2.001%	88.952%
34.0	1676.674	102.816	4690.041	1.785%	90.945%
35.0	1380.911	86.858	4776.899	1.508%	92.630%
36.0	1144.657	73.781	4850.68	1.281%	94.060%
37.0	937.204	61.851	4912.532	1.074%	95.260%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	693.525	46.823	4959.354	.813%	96.168%
39.0	471.441	32.535	4991.889	.565%	96.799%
40.0	312.947	22.059	5013.949	.383%	97.226%
41.0	206.723	14.872	5028.821	.258%	97.515%
42.0	112.157	8.230	5037.051	.143%	97.674%
43.0	79.185	5.922	5042.973	.103%	97.789%
44.0	61.415	4.678	5047.651	.081%	97.880%
45.0	50.556	3.920	5051.572	.068%	97.956%
46.0	44.781	3.533	5055.104	.061%	98.024%
47.0	39.407	3.160	5058.265	.055%	98.086%
48.0	34.658	2.824	5061.089	.049%	98.140%
49.0	30.687	2.540	5063.629	.044%	98.190%
50.0	27.638	2.322	5065.951	.040%	98.235%
51.0	26.035	2.219	5068.169	.039%	98.278%
52.0	25.278	2.184	5070.354	.038%	98.320%
53.0	24.796	2.172	5072.525	.038%	98.362%
54.0	24.369	2.162	5074.687	.038%	98.404%
55.0	24.032	2.159	5076.846	.037%	98.446%
56.0	23.764	2.160	5079.006	.038%	98.488%
57.0	23.516	2.163	5081.169	.038%	98.530%
58.0	23.344	2.171	5083.34	.038%	98.572%
59.0	23.193	2.180	5085.52	.038%	98.614%
60.0	23.055	2.190	5087.71	.038%	98.657%
61.0	22.931	2.199	5089.909	.038%	98.699%
62.0	22.842	2.212	5092.121	.038%	98.742%
63.0	22.766	2.224	5094.345	.039%	98.785%
64.0	22.697	2.237	5096.582	.039%	98.829%
65.0	22.628	2.249	5098.831	.039%	98.872%
66.0	22.573	2.261	5101.092	.039%	98.916%
67.0	22.525	2.274	5103.366	.039%	98.960%
68.0	22.504	2.288	5105.654	.040%	99.005%
69.0	22.449	2.298	5107.953	.040%	99.049%
70.0	22.442	2.313	5110.265	.040%	99.094%
71.0	22.394	2.322	5112.587	.040%	99.139%
72.0	22.374	2.333	5114.921	.041%	99.184%
73.0	22.360	2.345	5117.266	.041%	99.230%
74.0	22.332	2.354	5119.62	.041%	99.275%
75.0	22.312	2.363	5121.983	.041%	99.321%

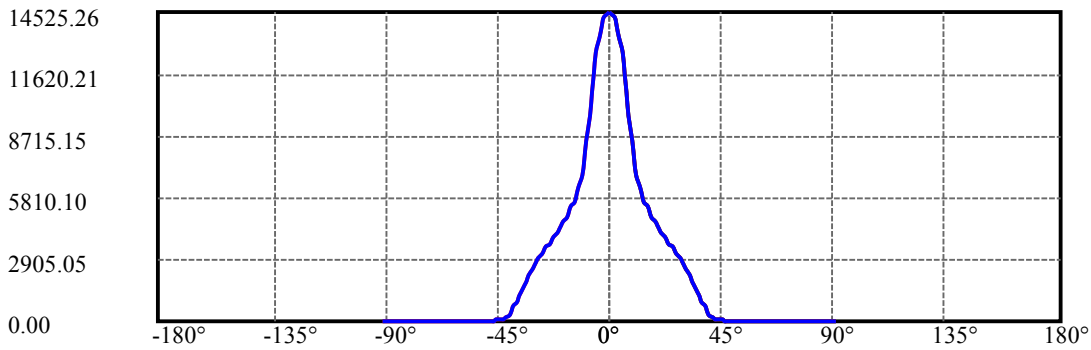
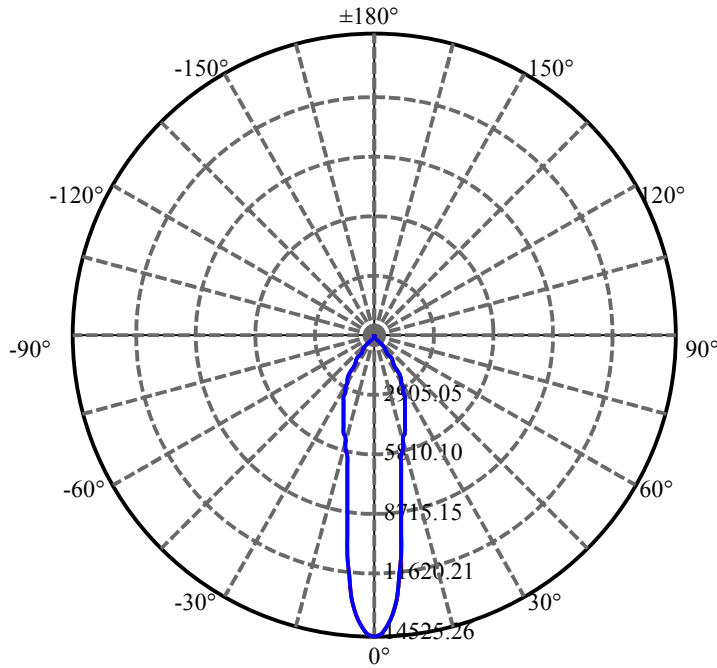
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	22.305	2.373	5124.356	.041%	99.367%
77.0	22.284	2.381	5126.737	.041%	99.413%
78.0	22.284	2.390	5129.128	.041%	99.460%
79.0	22.270	2.397	5131.525	.042%	99.506%
80.0	22.270	2.405	5133.93	.042%	99.553%
81.0	22.257	2.411	5136.341	.042%	99.600%
82.0	22.257	2.417	5138.758	.042%	99.647%
83.0	22.243	2.421	5141.179	.042%	99.694%
84.0	22.250	2.427	5143.605	.042%	99.741%
85.0	22.243	2.430	5146.035	.042%	99.788%
86.0	22.236	2.432	5148.467	.042%	99.835%
87.0	22.201	2.431	5150.899	.042%	99.882%
88.0	22.208	2.434	5153.333	.042%	99.929%
89.0	22.201	2.434	5155.767	.042%	99.976%
90.0	22.195	1.217	5156.984	.021%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	4207.34	73.03%	81.59%
0-40	5013.95	87.03%	97.23%
0-60	5087.71	88.31%	98.66%
0-90	5155.77	89.49%	99.98%
0-120	5155.77	89.49%	99.98%
0-180	5156.98	89.52%	100.00%
60-90	70.25	1.22%	1.36%
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%
0-29.44	4125.59	71.61%	80.00%

ZONAL LUMEN SUMMARY

0-10	1100.57
10-20	1528.61
20-30	1578.17
30-40	806.61
40-50	52.00
50-60	21.76
60-70	22.56
70-80	23.66
80-90	21.84
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: —————

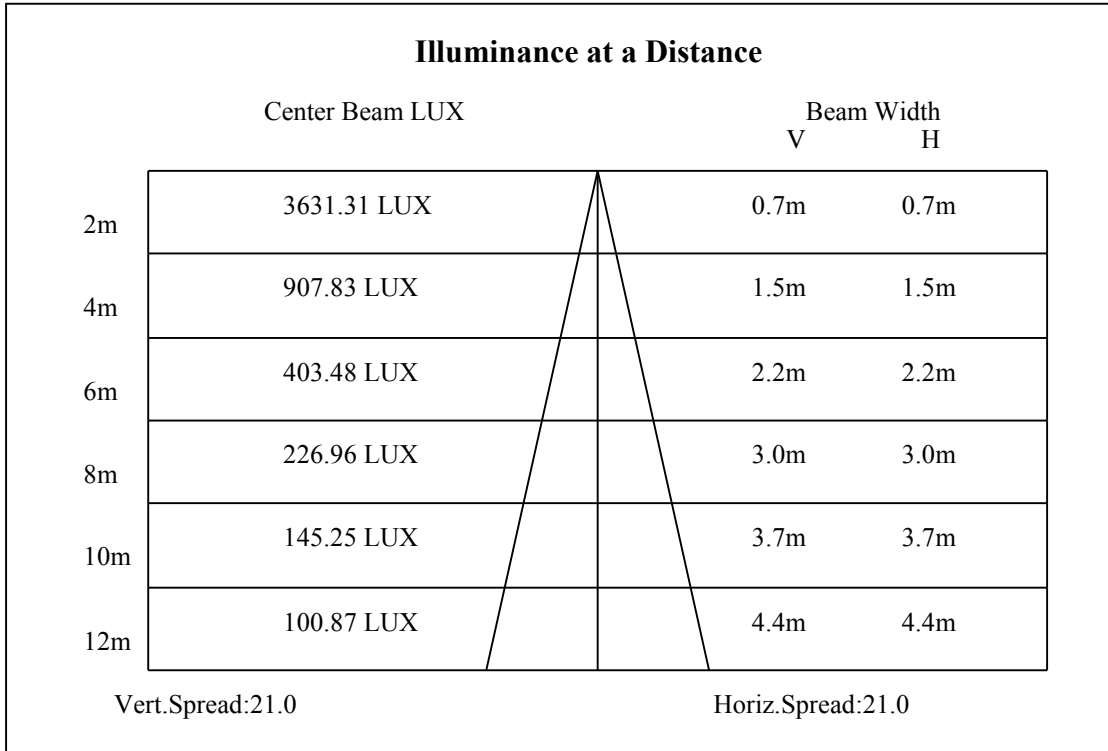
C90/C270: —————

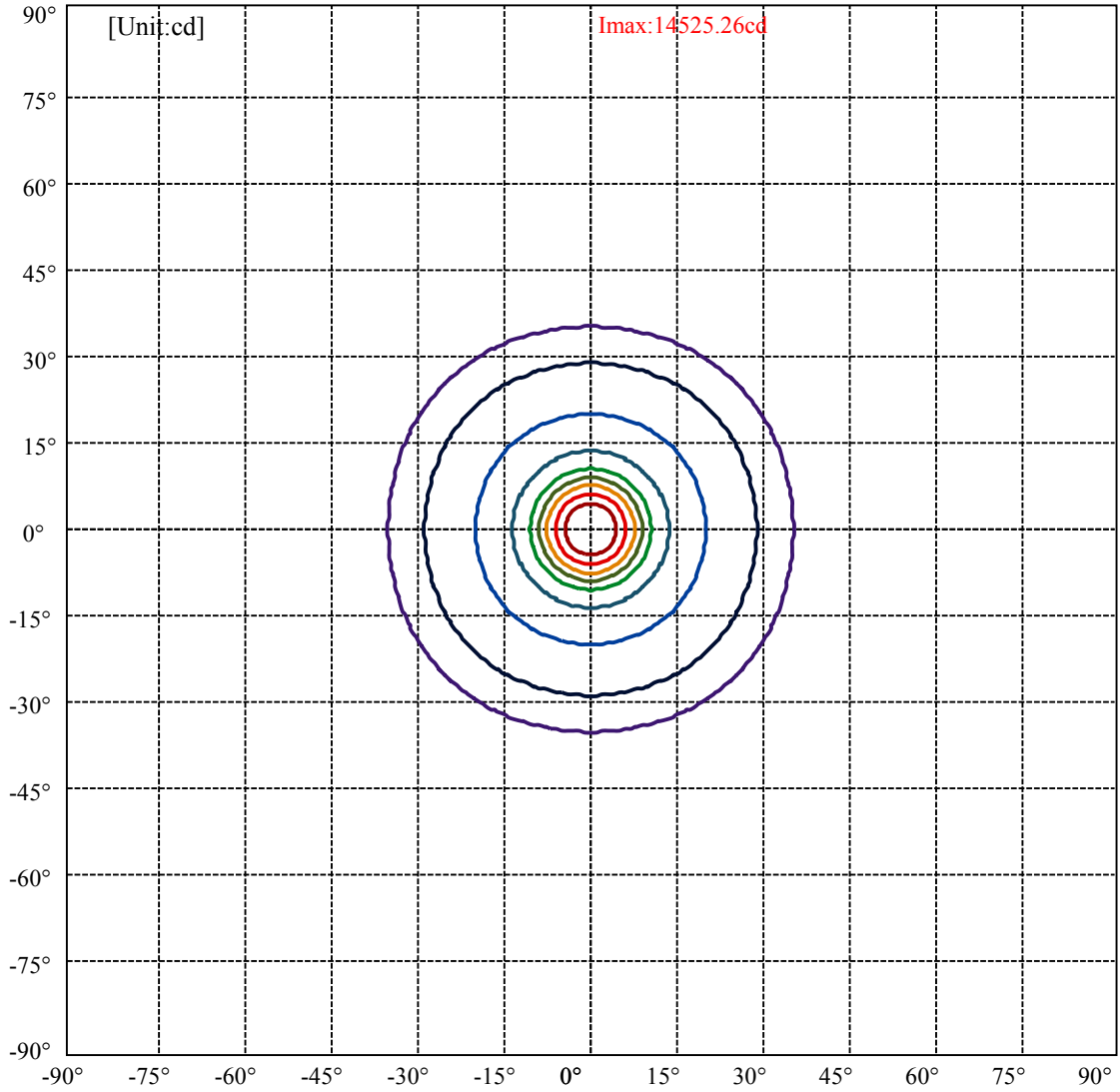
Field angle(10%Imax):C0/180Left:34.8 Right:34.8

:C90/270Left:34.8 Right:34.8

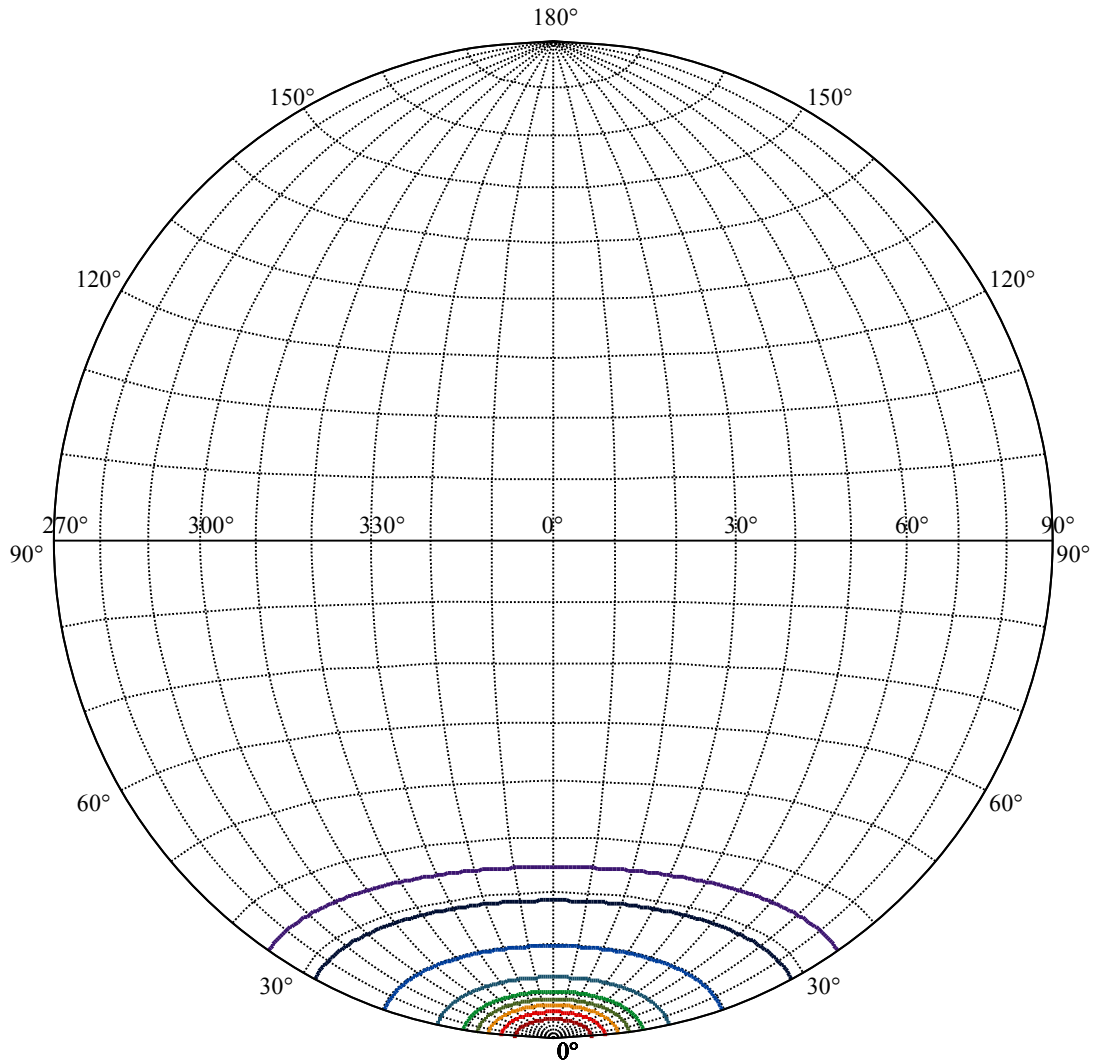
Beam Angle(50%Imax):C0/180Left:10.4 Right:10.4

:C90/270Left:10.4 Right:10.4





(10%Imax) 1452.53	—
(20%Imax) 2905.05	—
(30%Imax) 4357.58	—
(40%Imax) 5810.1	—
(50%Imax) 7262.63	—
(60%Imax) 8715.15	—
(70%Imax) 10167.7	—
(80%Imax) 11620.2	—
(90%Imax) 13072.7	—



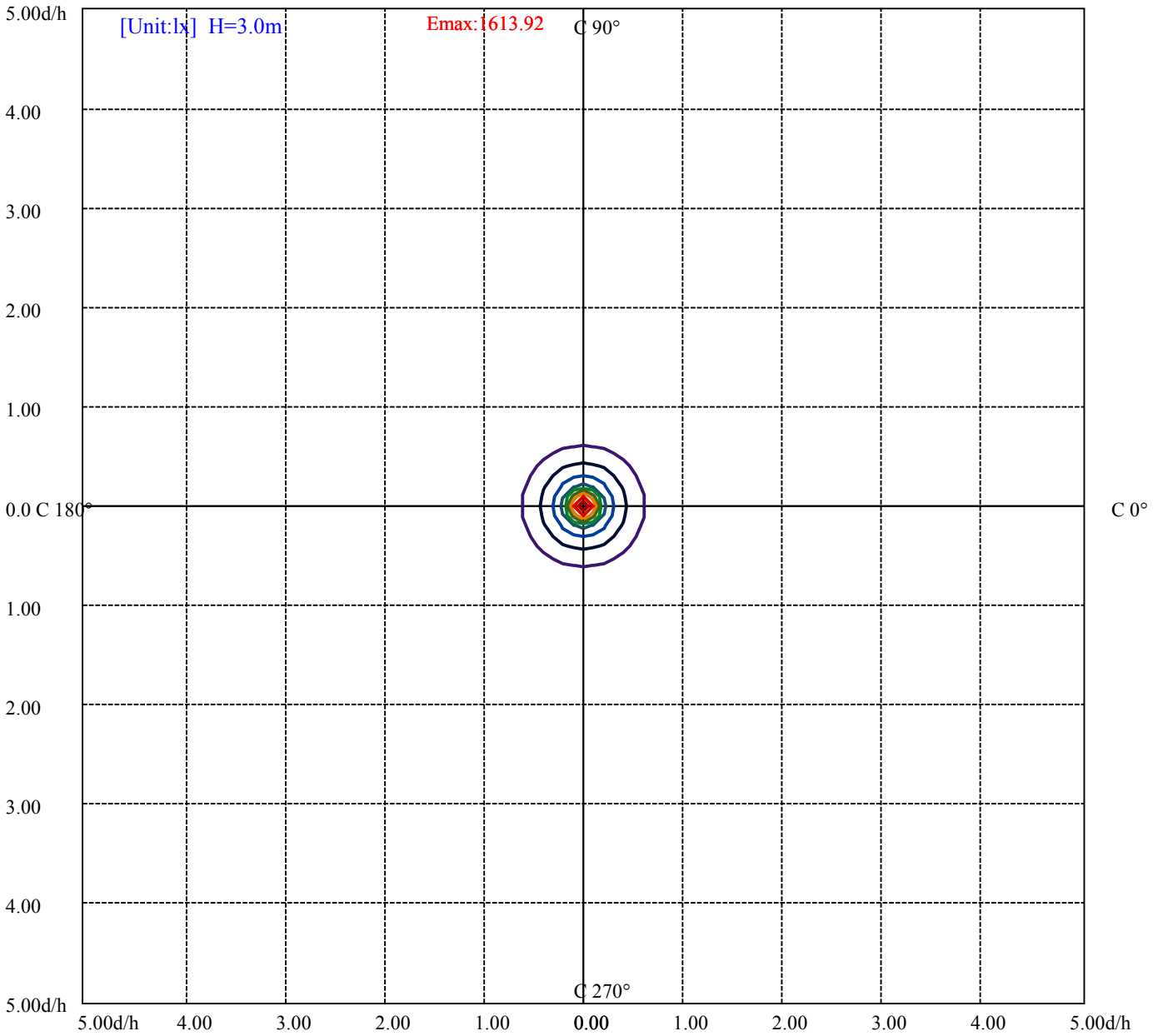
House

[Unit:cd]

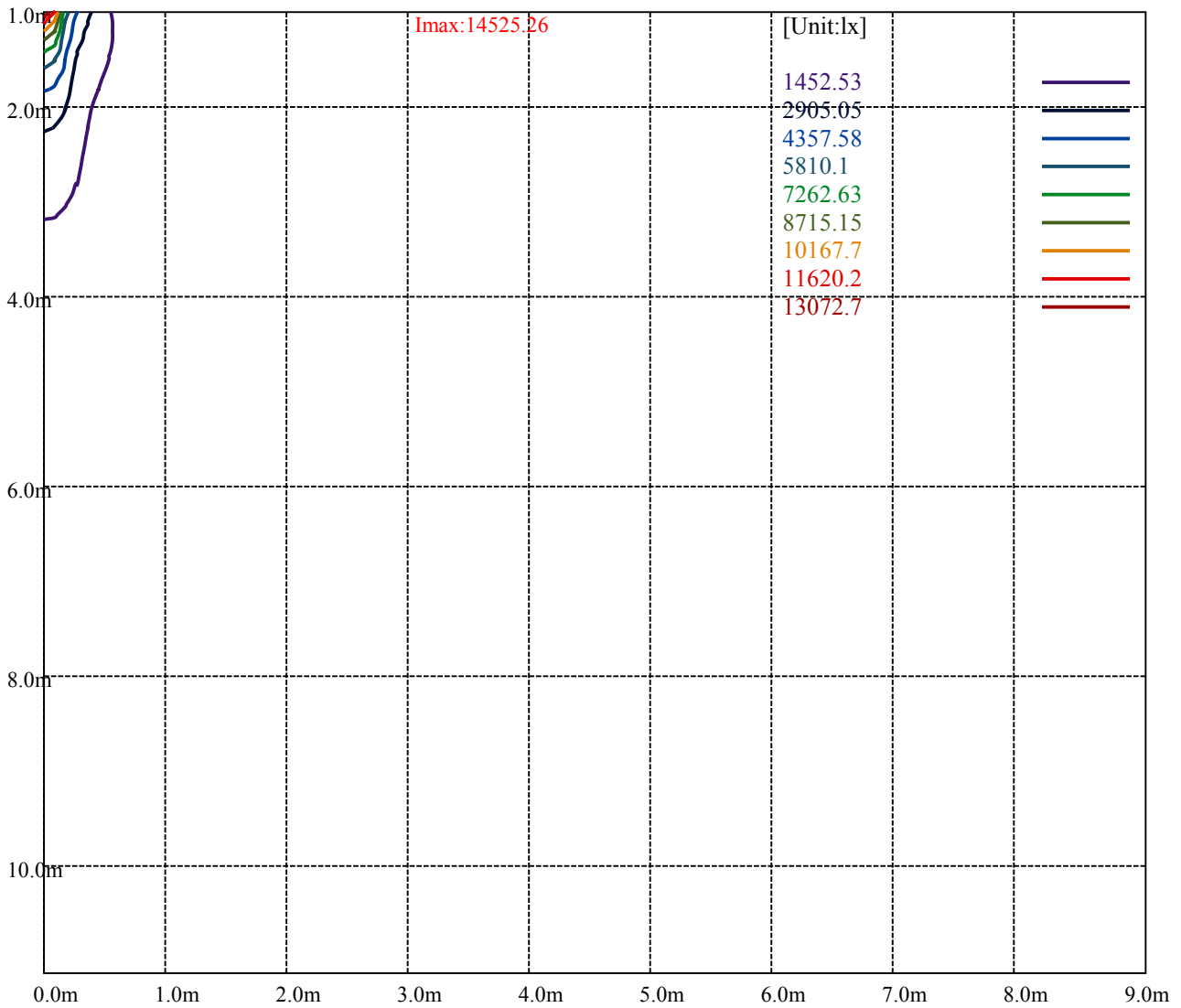
Road

Imax:14525.26

(10%Imax) 1452.53	—
(20%Imax) 2905.05	—
(30%Imax) 4357.58	—
(40%Imax) 5810.1	—
(50%Imax) 7262.63	—
(60%Imax) 8715.15	—
(70%Imax) 10167.7	—
(80%Imax) 11620.2	—
(90%Imax) 13072.7	—



- (10%Emax) 161.3911
- (20%Emax) 322.7833
- (30%Emax) 484.1744
- (40%Emax) 645.5667
- (50%Emax) 806.9578
- (60%Emax) 968.35
- (70%Emax) 1129.745
- (80%Emax) 1291.133
- (90%Emax) 1452.522



Luminance Table

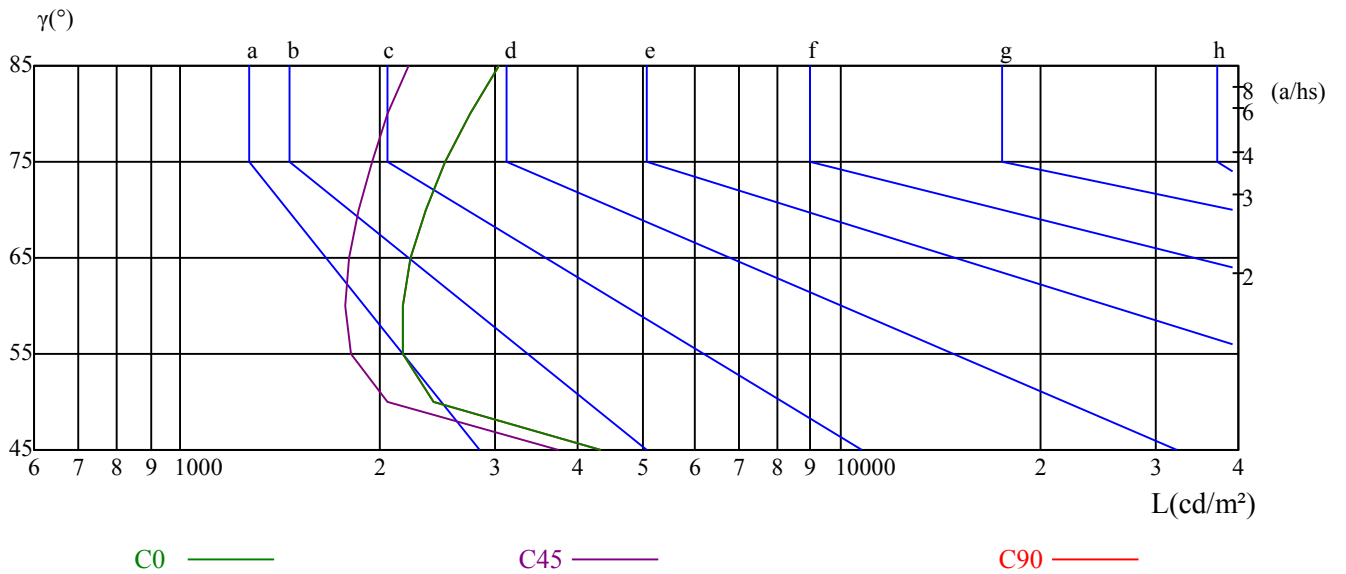
γ	45	50	55	60	65	70	75	80	85
C0	4333	2423	2173	2169	2237	2355	2516	2737	3028
C45	3725	2052	1812	1779	1802	1861	1946	2064	2218
C90	4333	2423	2173	2169	2237	2355	2516	2737	3028

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
5354	5354	5354	8621	8621	8621	25521	25521	25521

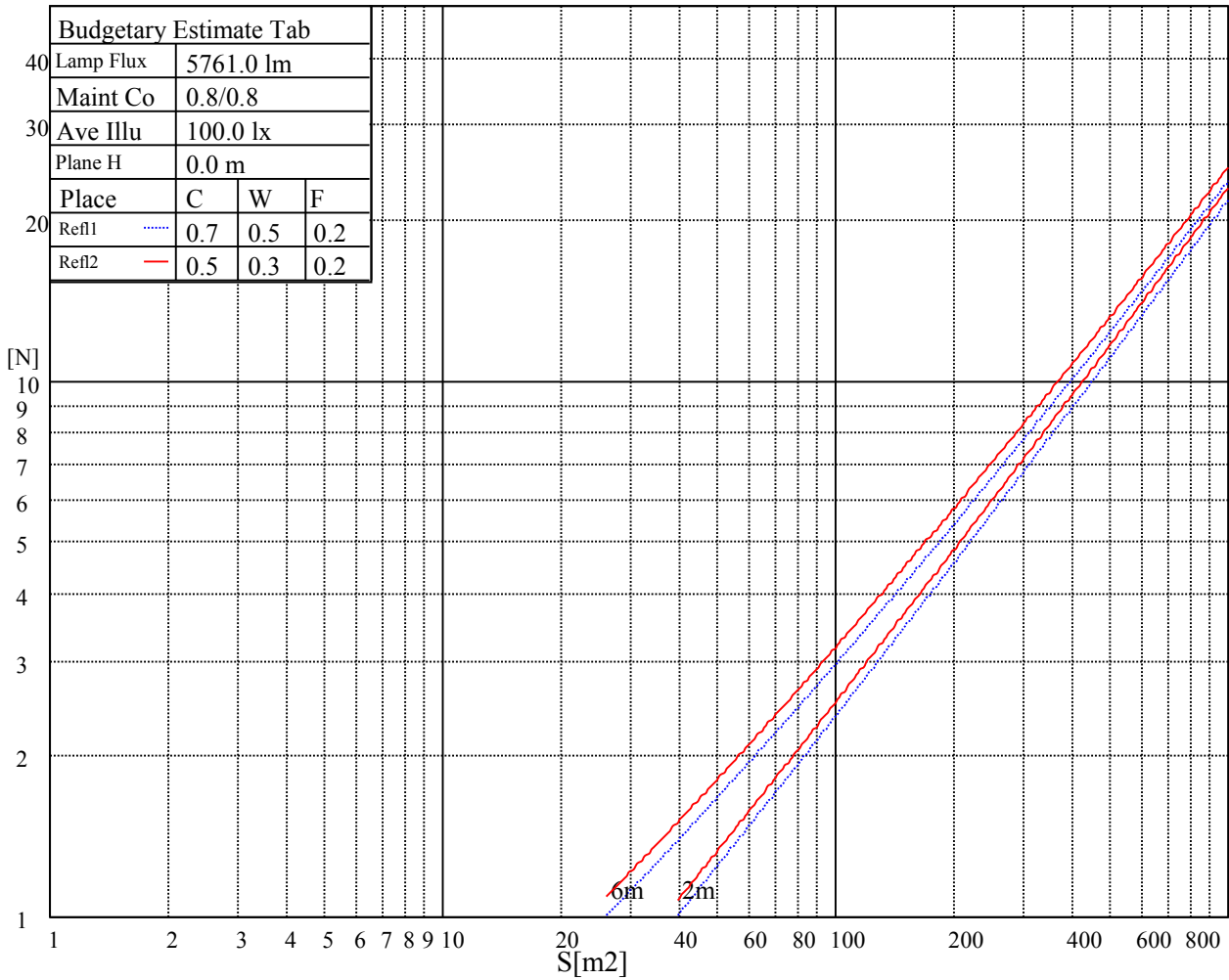
Glare Table

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

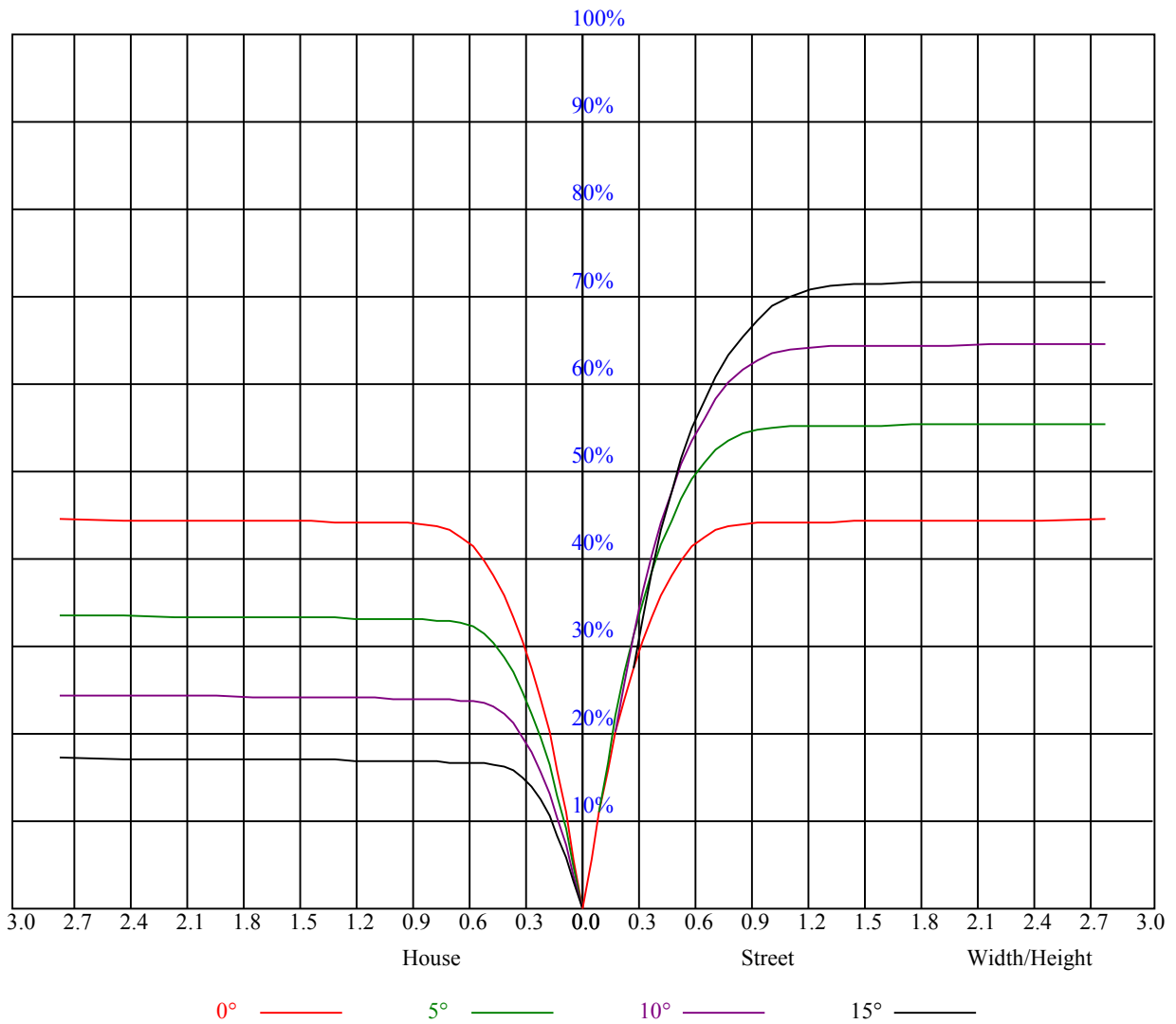
Luminance Limiting Curve



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	-2.02	-1.10	-1.65	-0.79	-0.48	-1.95	-1.03	-1.58	-0.72	-0.40
	3H	0.32	1.13	0.71	1.46	1.83	0.38	1.19	0.76	1.52	1.89
	4H	1.60	2.35	2.01	2.70	3.10	1.64	2.39	2.05	2.74	3.14
	6H	2.96	3.64	3.38	4.02	4.42	2.98	3.67	3.40	4.04	4.44
	8H	3.64	4.27	4.07	4.67	5.08	3.65	4.29	4.09	4.69	5.10
	12H	4.67	5.29	5.11	5.67	6.10	4.69	5.30	5.12	5.68	6.12
4H	2H	-1.51	-0.76	-1.10	-0.41	-0.02	-1.45	-0.71	-1.04	-0.35	0.04
	3H	1.12	1.74	1.54	2.15	2.55	1.17	1.79	1.59	2.20	2.60
	4H	2.58	3.12	3.01	3.55	4.00	2.61	3.15	3.05	3.58	4.03
	6H	4.03	4.50	4.51	4.95	5.43	4.05	4.52	4.52	4.97	5.45
	8H	4.82	5.26	5.30	5.71	6.18	4.83	5.27	5.31	5.72	6.20
	12H	5.85	6.22	6.34	6.71	7.19	5.86	6.23	6.35	6.72	7.20
8H	4H	3.03	3.46	3.51	3.92	4.39	3.05	3.49	3.53	3.94	4.42
	6H	4.72	5.07	5.23	5.57	6.06	4.74	5.08	5.25	5.58	6.07
	8H	5.66	5.97	6.20	6.49	6.99	5.67	5.97	6.21	6.50	7.00
	12H	6.82	7.08	7.34	7.58	8.16	6.82	7.08	7.35	7.58	8.17
12H	4H	3.12	3.50	3.62	3.99	4.47	3.15	3.52	3.64	4.01	4.49
	6H	5.10	5.20	5.44	5.68	6.23	5.11	5.22	5.45	5.69	6.24
	8H	5.93	6.19	6.46	6.69	7.28	5.94	6.20	6.47	6.70	7.28
Variation with the observer position at spacings:											
S = 1.0H		6.0/-9.8					6.0/-9.8				
S = 1.5H		8.5/-7.9					8.5/-7.9				
S = 2.0H		10.3/-6.6					10.3/-6.6				
Standard tables:		BK1					BK1				
Uncorrected UGR		-0.6					-0.6				



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	0.91	0.91	0.91	0.90
1	1.00	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.91	0.91	0.90	0.89	0.88	0.87	0.86	0.84
2	0.94	0.90	0.87	0.92	0.89	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.80
3	0.88	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.81	0.78	0.77	0.75
4	0.83	0.79	0.76	0.82	0.78	0.75	0.81	0.77	0.74	0.79	0.76	0.73	0.77	0.75	0.73	0.71
5	0.79	0.74	0.71	0.78	0.74	0.71	0.77	0.73	0.70	0.75	0.72	0.69	0.74	0.71	0.69	0.68
6	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.72	0.69	0.66	0.71	0.68	0.65	0.64
7	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
8	0.68	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.59	0.58
9	0.65	0.61	0.57	0.65	0.60	0.57	0.64	0.60	0.57	0.63	0.60	0.57	0.63	0.59	0.57	0.56
10	0.62	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.55	0.61	0.57	0.55	0.60	0.57	0.54	0.53



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	14534.89	14479.83	14254.10	13879.72	13389.72	12684.99	11776.56	10813.08	9921.16
45.0	14501.86	14573.43	14441.29	14210.06	13868.71	13268.59	12596.90	11743.53	10636.90
90.0	14556.91	14551.41	14397.25	14088.93	13687.02	13031.85	12277.58	10916.03	9954.75
135.0	14507.36	14545.90	14397.25	14149.49	13797.13	13147.47	12442.75	11528.81	10510.27
180.0	14534.89	14424.78	14210.06	13830.17	13296.12	12640.95	10905.57	10626.44	9386.02
225.0	14501.86	14303.65	13956.80	13450.28	12866.68	11991.28	10897.86	9838.58	8665.33
270.0	14556.91	14435.79	14094.44	13676.01	13108.93	12183.98	11231.51	10185.43	9007.23
315.0	14507.36	14342.19	14000.84	13488.82	12910.73	12084.88	10925.39	10012.01	8847.56
360.0	14534.89	14479.83	14254.10	13879.72	13389.72	12684.99	11776.56	10813.08	9921.16
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8522.73	7636.32	7008.68	6353.51	5946.09	5692.83	5384.52	5125.75	4949.57
45.0	9453.18	8423.63	7465.65	6832.50	6314.97	5935.08	5659.80	5384.52	5131.26
90.0	8871.79	7777.27	6962.43	6442.70	6052.90	5702.19	5461.59	5230.36	4985.36
135.0	9139.36	8126.32	7278.46	6595.76	6127.78	5819.46	5549.69	5296.43	5081.71
180.0	8331.13	7330.21	6619.43	6185.04	5862.41	5528.21	5297.53	5082.26	4856.53
225.0	7735.42	6925.54	6356.81	6001.70	5722.56	5369.65	5181.36	4971.59	4742.56
270.0	7939.13	7135.31	6485.64	6078.23	5747.89	5467.10	5235.86	4988.11	4751.37
315.0	7906.10	7055.48	6441.05	6068.87	5767.71	5450.03	5214.94	5002.98	4766.23
360.0	8522.73	7636.32	7008.68	6353.51	5946.09	5692.83	5384.52	5125.75	4949.57
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	4690.81	4503.61	4327.43	4118.22	3958.56	3815.41	3639.23	3490.58	3325.41
45.0	4900.02	4701.82	4476.09	4299.90	4134.74	3964.06	3787.88	3639.23	3457.54
90.0	4763.48	4565.28	4369.28	4178.78	4019.67	3857.25	3715.76	3552.24	3375.51
135.0	4839.46	4646.76	4443.05	4250.35	4085.18	3909.00	3738.33	3589.68	3463.05
180.0	4644.56	4460.12	4265.22	4084.08	3933.78	3775.22	3637.58	3468.55	3294.57
225.0	4546.01	4365.42	4176.58	4008.11	3856.70	3690.98	3547.83	3378.81	3203.73
270.0	4569.68	4393.50	4184.29	4024.62	3875.97	3727.32	3567.65	3419.00	3270.35
315.0	4547.66	4365.97	4172.17	3986.63	3837.43	3672.81	3524.71	3359.54	3190.52
360.0	4690.81	4503.61	4327.43	4118.22	3958.56	3815.41	3639.23	3490.58	3325.41
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	3138.21	2978.55	2840.91	2791.36	2454.96	2236.39	1978.18	1733.18	1471.66
45.0	3281.36	3127.20	2945.52	2807.88	2695.01	2393.30	2129.03	1863.66	1612.05
90.0	3216.39	3035.81	2870.64	2714.83	2519.38	2246.30	2009.56	1764.56	1503.59
135.0	3242.82	3099.68	2956.53	2780.35	2541.95	2329.99	2091.04	1796.49	1574.61
180.0	3138.21	2982.96	2795.21	2611.33	2392.20	2103.15	1855.40	1612.60	1350.53
225.0	3047.37	2895.42	2691.16	2480.29	2250.71	1953.40	1710.60	1473.86	1059.78
270.0	3077.65	2934.51	2785.85	2592.61	2366.87	2174.18	1875.77	1614.80	1381.37
315.0	3034.16	2881.65	2702.17	2508.37	2298.05	2023.87	1787.68	1554.24	1093.70
360.0	3138.21	2978.55	2840.91	2791.36	2454.96	2236.39	1978.18	1733.18	1471.66
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1218.95	991.02	729.50	499.36	329.24	292.35	116.39	82.36	64.03
45.0	1358.24	1118.20	848.42	603.97	426.69	289.05	122.56	84.84	64.86
90.0	1070.24	1010.89	780.75	521.49	337.17	189.34	109.45	74.71	59.02
135.0	1308.69	1065.34	804.37	579.19	406.32	289.05	136.54	92.22	66.07
180.0	1096.39	874.35	614.76	429.27	270.27	141.16	100.81	70.42	55.00
225.0	943.50	729.83	527.72	303.58	177.89	117.44	83.41	64.25	54.18
270.0	1124.80	891.91	647.46	432.19	292.35	168.86	111.54	83.25	64.86
315.0	1036.44	816.10	595.21	402.46	263.67	166.55	116.55	81.43	63.31
360.0	1218.95	991.02	729.50	499.36	329.24	292.35	116.39	82.36	64.03

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	53.29	47.84	43.16	37.33	32.04	28.74	26.76	25.71	25.22
45.0	53.79	47.73	42.89	37.88	32.59	29.29	26.92	25.82	25.16
90.0	49.28	43.49	38.81	34.19	30.78	27.42	25.77	25.11	24.72
135.0	50.43	44.10	39.86	35.18	31.49	28.46	26.21	25.38	24.78
180.0	49.00	43.99	37.71	33.75	30.17	26.98	25.99	25.38	24.89
225.0	46.25	41.68	35.46	31.05	28.30	26.37	25.49	25.00	24.61
270.0	50.93	44.16	39.53	33.86	29.84	27.14	25.60	24.94	24.56
315.0	51.48	45.26	37.82	34.02	30.28	26.70	25.55	24.89	24.45
360.0	53.29	47.84	43.16	37.33	32.04	28.74	26.76	25.71	25.22
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	24.78	24.33	23.95	23.67	23.45	23.29	23.12	22.96	22.85
45.0	24.72	24.33	24.11	23.78	23.56	23.40	23.29	23.18	23.07
90.0	24.22	23.89	23.73	23.45	23.34	23.18	23.07	22.90	22.85
135.0	24.39	24.06	23.78	23.56	23.40	23.23	23.07	22.96	22.85
180.0	24.50	24.17	23.84	23.62	23.45	23.29	23.18	23.01	22.90
225.0	24.17	23.84	23.62	23.40	23.29	23.12	22.96	22.85	22.79
270.0	24.17	23.89	23.62	23.34	23.12	23.07	22.96	22.85	22.74
315.0	24.00	23.73	23.45	23.29	23.12	22.96	22.79	22.74	22.68
360.0	24.78	24.33	23.95	23.67	23.45	23.29	23.12	22.96	22.85
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.79	22.74	22.68	22.63	22.57	22.46	22.46	22.46	22.41
45.0	22.96	22.85	22.79	22.74	22.68	22.68	22.57	22.52	22.46
90.0	22.74	22.68	22.63	22.57	22.52	22.52	22.46	22.46	22.41
135.0	22.79	22.74	22.68	22.57	22.52	22.52	22.46	22.46	22.41
180.0	22.85	22.74	22.68	22.63	22.63	22.52	22.52	22.52	22.46
225.0	22.74	22.68	22.63	22.52	22.46	22.46	22.46	22.46	22.41
270.0	22.63	22.57	22.52	22.52	22.46	22.46	22.35	22.35	22.30
315.0	22.63	22.57	22.41	22.41	22.35	22.41	22.30	22.30	22.30
360.0	22.79	22.74	22.68	22.63	22.57	22.46	22.46	22.46	22.41
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	22.41	22.35	22.30	22.30	22.35	22.30	22.24	22.24	22.19
45.0	22.52	22.46	22.46	22.41	22.41	22.35	22.41	22.35	22.35
90.0	22.35	22.35	22.35	22.30	22.30	22.30	22.30	22.30	22.24
135.0	22.35	22.35	22.30	22.35	22.35	22.35	22.24	22.24	22.24
180.0	22.35	22.35	22.30	22.30	22.30	22.24	22.24	22.19	22.24
225.0	22.35	22.35	22.35	22.35	22.30	22.30	22.30	22.30	22.35
270.0	22.35	22.35	22.30	22.24	22.24	22.24	22.30	22.30	22.30
315.0	22.30	22.30	22.30	22.24	22.19	22.19	22.24	22.24	22.24
360.0	22.41	22.35	22.30	22.30	22.35	22.30	22.24	22.24	22.19
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	22.24	22.19	22.19	22.19	22.13	22.19	22.19	22.19	22.13
45.0	22.35	22.35	22.35	22.30	22.35	22.30	22.30	22.30	22.30
90.0	22.24	22.24	22.19	22.24	22.19	22.19	22.19	22.24	22.24
135.0	22.24	22.24	22.19	22.24	22.24	22.24	22.19	22.19	22.19
180.0	22.24	22.24	22.24	22.24	22.35	22.30	22.13	22.13	22.08
225.0	22.35	22.30	22.35	22.35	22.30	22.24	22.24	22.24	22.24
270.0	22.24	22.30	22.24	22.24	22.24	22.24	22.24	22.24	22.24
315.0	22.13	22.19	22.19	22.19	22.13	22.19	22.13	22.13	22.19
360.0	22.24	22.19	22.19	22.19	22.13	22.19	22.19	22.19	22.13

Intensity data(cd)

C/ γ (°)	90.0
0.0	22.19
45.0	22.24
90.0	22.19
135.0	22.19
180.0	22.13
225.0	22.24
270.0	22.24
315.0	22.13
360.0	22.19