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NATA

LumCAT: 1545-E	
Luminaire: 92.70.051.00	
Report No: NATA0100	Voltage(V): 10.2200
Test No: GC2019010802	Current(A): 0.6000
LampCAT: BRIDGELUX V6	Power (W): 6.1320
Lamp flux(lm): 519.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 21	Width(mm): 21
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 439.10
Efficiency(%): 84.60%
Lumens(lm)/Power(W): 71.64
Central intensity(cd): 910.111
Maximum intensity(cd): 910.111
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=27.3
 [C90/270]Total=27.3
Field angle(10%Imax): [C0/180]Total=83.8
 [C90/270]Total=83.8
Maximum s/h(1/2): C0_180=0.45 C90_270=0.45
Maximum s/h(1/4): C0_180=0.52 C90_270=0.52
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 84.64%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 97.953%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	910.111	0.218	0.218	.042%	.050%
1.0	906.286	1.734	1.952	.334%	.445%
2.0	894.755	3.424	5.377	.660%	1.224%
3.0	876.895	5.033	10.409	.970%	2.371%
4.0	852.947	6.525	16.934	1.257%	3.857%
5.0	820.898	7.846	24.78	1.512%	5.643%
6.0	784.751	8.995	33.775	1.733%	7.692%
7.0	743.309	9.934	43.709	1.914%	9.954%
8.0	700.341	10.688	54.397	2.059%	12.388%
9.0	654.771	11.232	65.63	2.164%	14.946%
10.0	608.196	11.582	77.211	2.232%	17.584%
11.0	564.089	11.803	89.014	2.274%	20.272%
12.0	521.648	11.893	100.908	2.292%	22.981%
13.0	479.236	11.822	112.73	2.278%	25.673%
14.0	440.613	11.689	124.419	2.252%	28.335%
15.0	406.055	11.525	135.944	2.221%	30.960%
16.0	374.435	11.318	147.262	2.181%	33.537%
17.0	347.147	11.130	158.392	2.145%	36.072%
18.0	321.771	10.904	169.296	2.101%	38.555%
19.0	301.120	10.751	180.046	2.071%	41.004%
20.0	282.537	10.597	190.643	2.042%	43.417%
21.0	264.938	10.412	201.055	2.006%	45.788%
22.0	250.502	10.291	211.346	1.983%	48.132%
23.0	237.417	10.173	221.518	1.960%	50.448%
24.0	224.459	10.012	231.53	1.929%	52.728%
25.0	213.356	9.888	241.418	1.905%	54.980%
26.0	203.541	9.785	251.203	1.885%	57.209%
27.0	193.788	9.648	260.85	1.859%	59.406%
28.0	185.646	9.558	270.408	1.842%	61.582%
29.0	178.755	9.503	279.911	1.831%	63.747%
30.0	173.102	9.491	289.403	1.829%	65.908%
31.0	168.019	9.490	298.892	1.828%	68.069%
32.0	163.723	9.514	308.406	1.833%	70.236%
33.0	159.848	9.547	317.953	1.840%	72.410%
34.0	155.820	9.555	327.509	1.841%	74.586%
35.0	151.291	9.516	337.025	1.834%	76.754%
36.0	145.575	9.383	346.408	1.808%	78.891%
37.0	139.275	9.192	355.599	1.771%	80.984%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	131.140	8.854	364.453	1.706%	83.000%
39.0	121.788	8.405	372.858	1.619%	84.914%
40.0	112.064	7.899	380.757	1.522%	86.713%
41.0	101.482	7.301	388.058	1.407%	88.376%
42.0	89.705	6.582	394.641	1.268%	89.875%
43.0	78.279	5.854	400.495	1.128%	91.208%
44.0	67.430	5.137	405.632	.990%	92.378%
45.0	55.849	4.331	409.962	.834%	93.364%
46.0	45.429	3.584	413.546	.690%	94.181%
47.0	35.705	2.864	416.409	.552%	94.833%
48.0	27.823	2.267	418.677	.437%	95.349%
49.0	21.199	1.754	420.431	.338%	95.749%
50.0	16.066	1.350	421.781	.260%	96.056%
51.0	13.338	1.137	422.918	.219%	96.315%
52.0	11.827	1.022	423.94	.197%	96.548%
53.0	10.948	0.959	424.898	.185%	96.766%
54.0	10.448	0.927	425.825	.179%	96.977%
55.0	9.984	0.897	426.722	.173%	97.181%
56.0	9.415	0.856	427.578	.165%	97.376%
57.0	8.831	0.812	428.39	.156%	97.561%
58.0	8.051	0.749	429.139	.144%	97.732%
59.0	6.982	0.656	429.795	.126%	97.881%
60.0	5.407	0.514	430.309	.099%	97.998%
61.0	4.472	0.429	430.738	.083%	98.096%
62.0	4.092	0.396	431.134	.076%	98.186%
63.0	3.966	0.387	431.521	.075%	98.274%
64.0	3.797	0.374	431.896	.072%	98.360%
65.0	3.670	0.365	432.26	.070%	98.443%
66.0	3.558	0.356	432.617	.069%	98.524%
67.0	3.438	0.347	432.964	.067%	98.603%
68.0	3.333	0.339	433.303	.065%	98.680%
69.0	3.248	0.333	433.635	.064%	98.756%
70.0	3.157	0.325	433.961	.063%	98.830%
71.0	3.094	0.321	434.282	.062%	98.903%
72.0	3.016	0.315	434.596	.061%	98.974%
73.0	2.960	0.310	434.907	.060%	99.045%
74.0	2.876	0.303	435.21	.058%	99.114%
75.0	2.841	0.301	435.511	.058%	99.183%

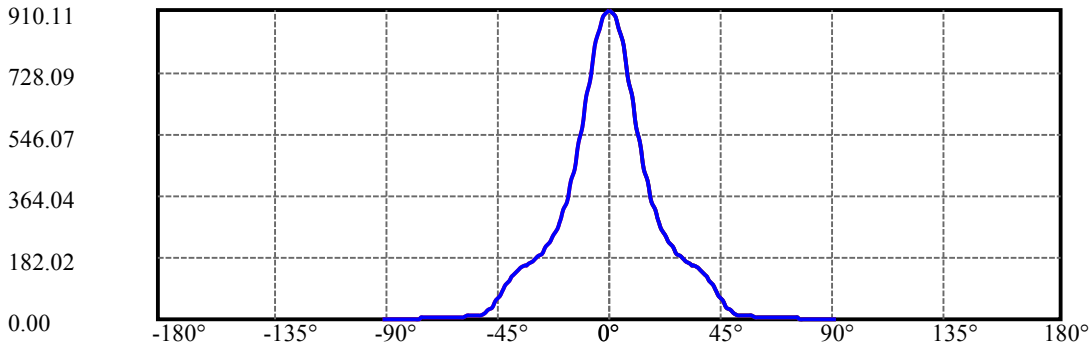
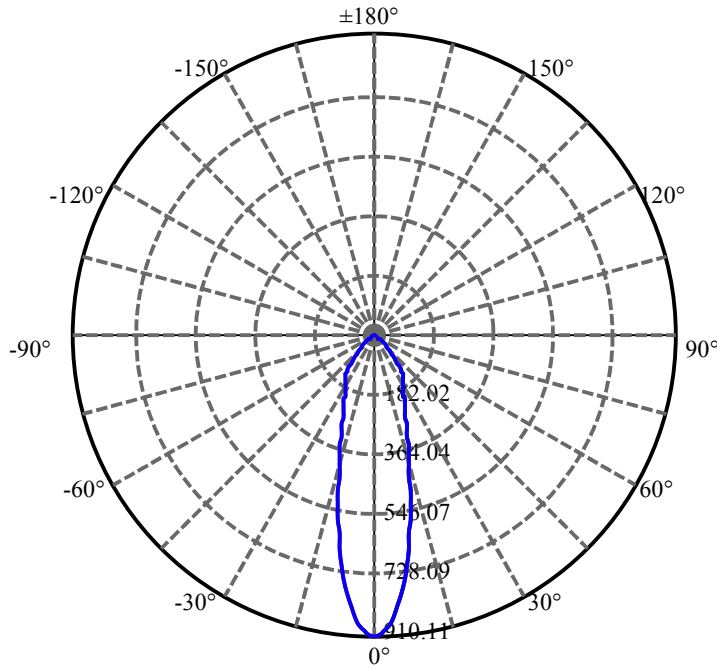
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	2.784	0.296	435.807	.057%	99.250%
77.0	2.735	0.292	436.099	.056%	99.317%
78.0	2.665	0.286	436.385	.055%	99.382%
79.0	2.595	0.279	436.664	.054%	99.445%
80.0	2.531	0.273	436.938	.053%	99.508%
81.0	2.454	0.266	437.203	.051%	99.568%
82.0	2.391	0.260	437.463	.050%	99.627%
83.0	2.299	0.250	437.713	.048%	99.684%
84.0	2.222	0.242	437.956	.047%	99.740%
85.0	2.180	0.238	438.194	.046%	99.794%
86.0	1.997	0.218	438.412	.042%	99.844%
87.0	1.884	0.206	438.618	.040%	99.891%
88.0	1.807	0.198	438.817	.038%	99.936%
89.0	1.737	0.190	439.007	.037%	99.979%
90.0	1.680	0.092	439.099	.018%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	289.40	55.76%	65.91%
0-40	380.76	73.36%	86.71%
0-60	430.31	82.91%	98.00%
0-90	439.01	84.59%	99.98%
0-120	439.01	84.59%	99.98%
0-180	439.10	84.60%	100.00%
60-90	9.21	1.77%	2.10%
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%
0-36.53	351.28	67.68%	80.00%

ZONAL LUMEN SUMMARY

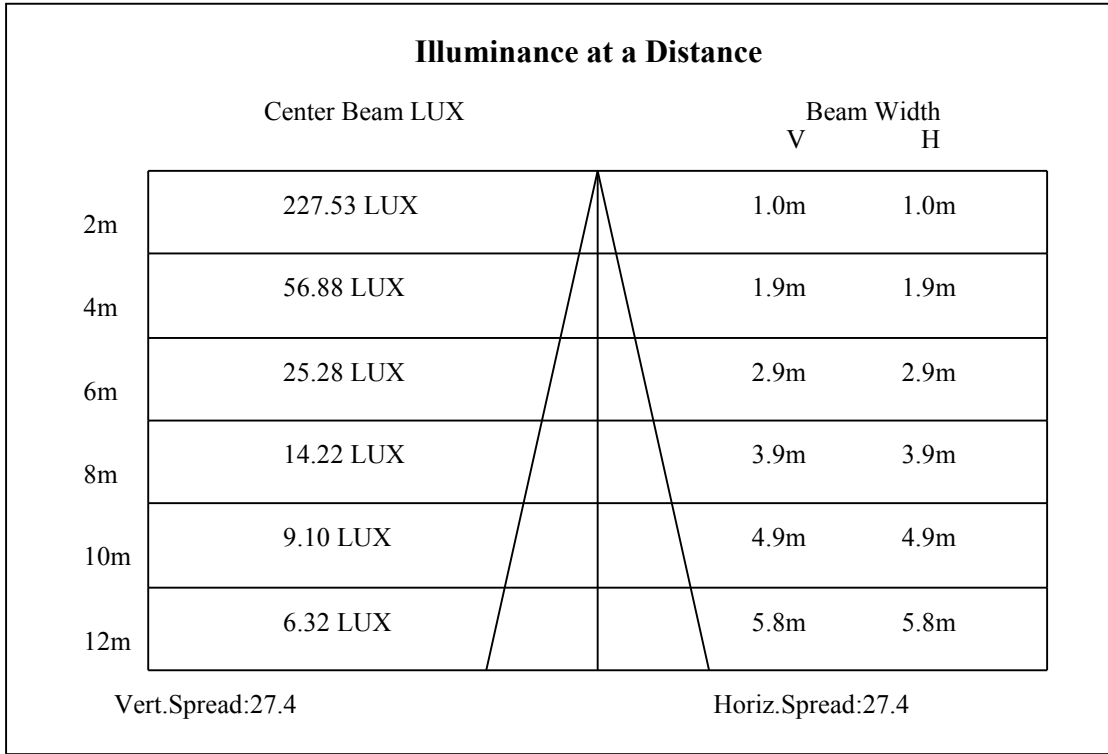
0-10	77.21
10-20	113.43
20-30	98.76
30-40	91.35
40-50	41.02
50-60	8.53
60-70	3.65
70-80	2.98
80-90	2.07
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

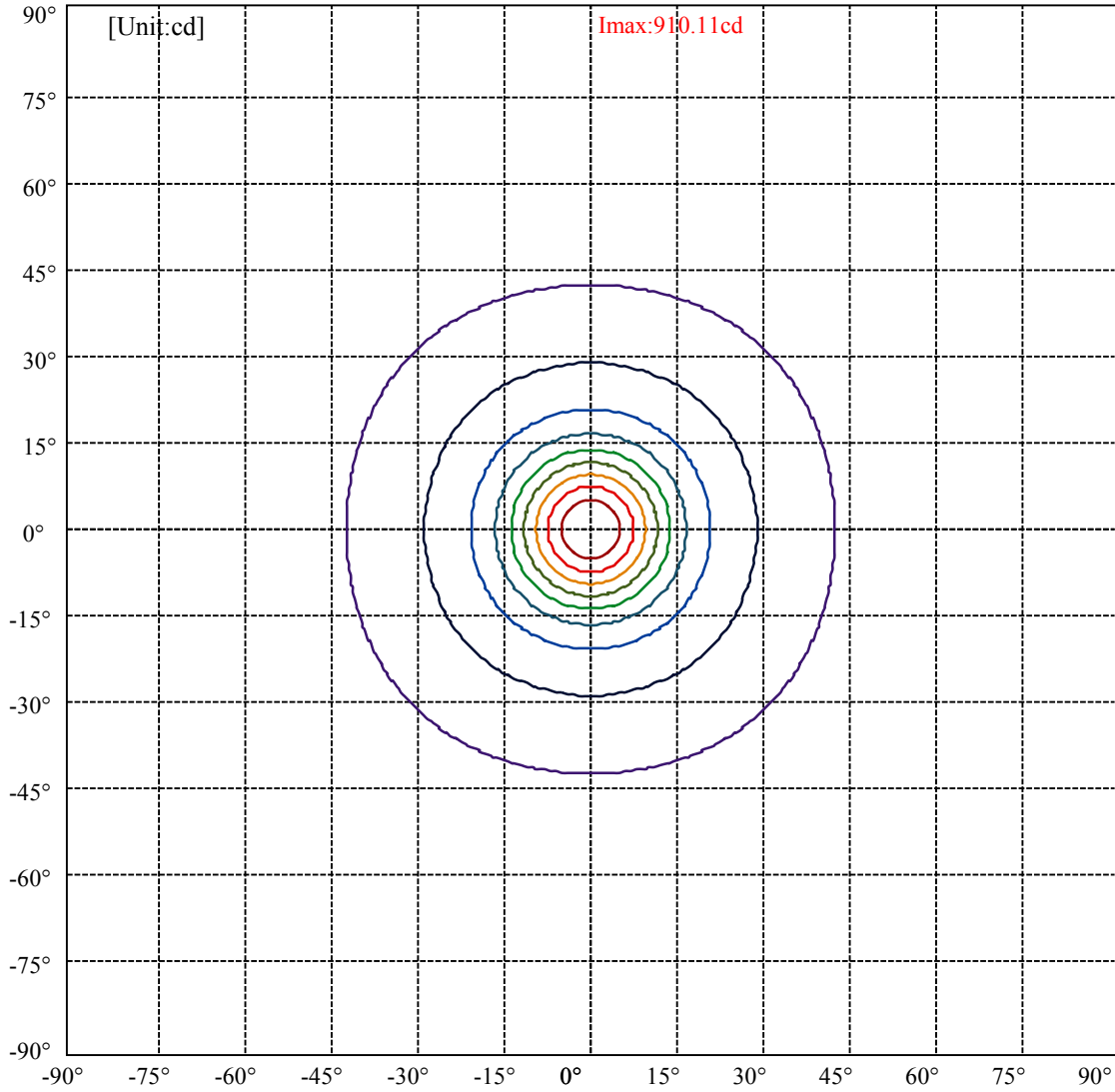


C0(Max): —————
C0/C180: —————
C90/C270: —————

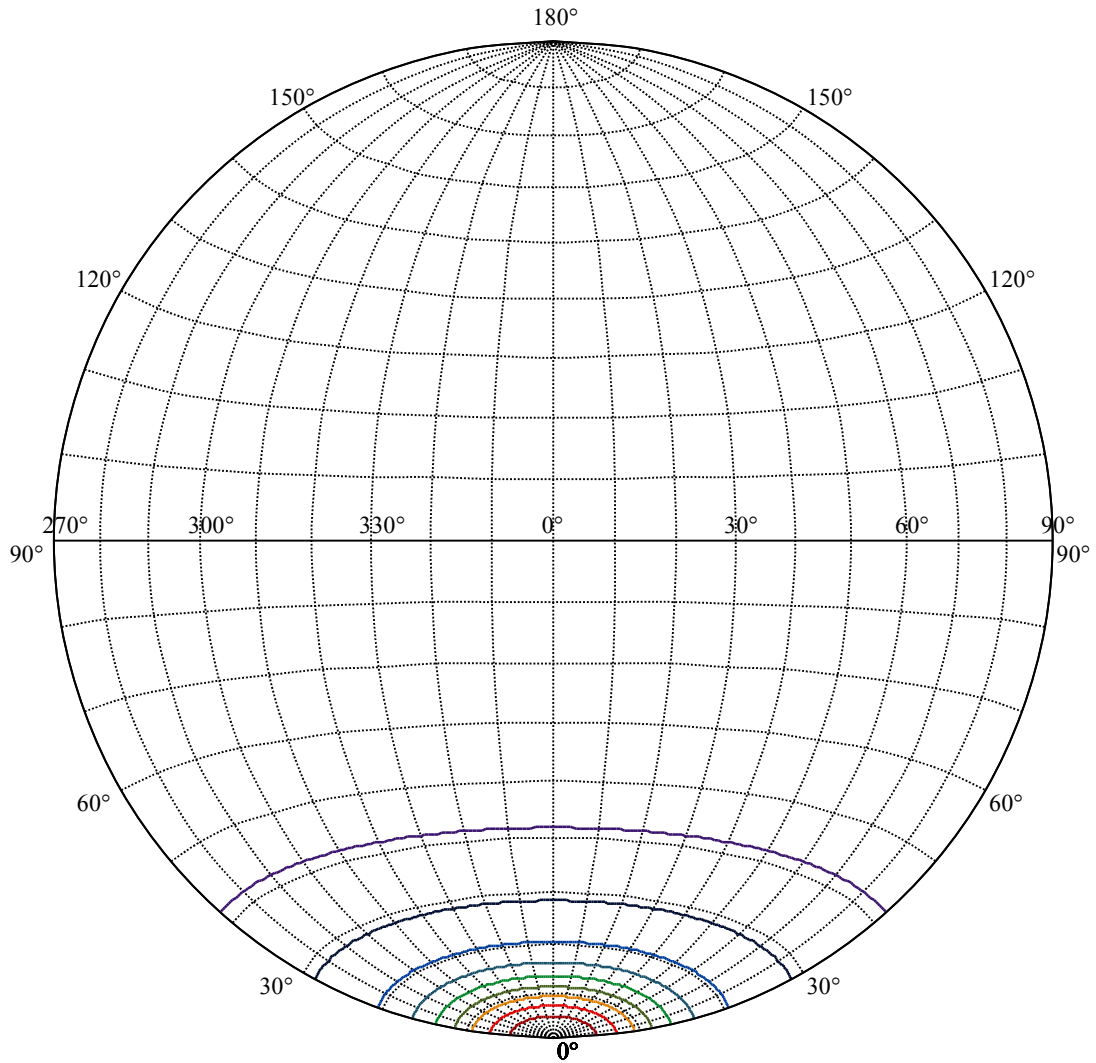
Field angle(10%Imax):C0/180Left:41.9 Right:41.9
:C90/270Left:41.9 Right:41.9

Beam Angle(50%Imax):C0/180Left:13.6 Right:13.6
:C90/270Left:13.6 Right:13.6





(10%Imax) 91.0111	—
(20%Imax) 182.022	—
(30%Imax) 273.033	—
(40%Imax) 364.044	—
(50%Imax) 455.055	—
(60%Imax) 546.067	—
(70%Imax) 637.078	—
(80%Imax) 728.089	—
(90%Imax) 819.1	—



House

[Unit:cd]

Road

Imax:910.11

(10%Imax) 91.0111

(20%Imax) 182.022

(30%Imax) 273.033

(40%Imax) 364.044

(50%Imax) 455.055

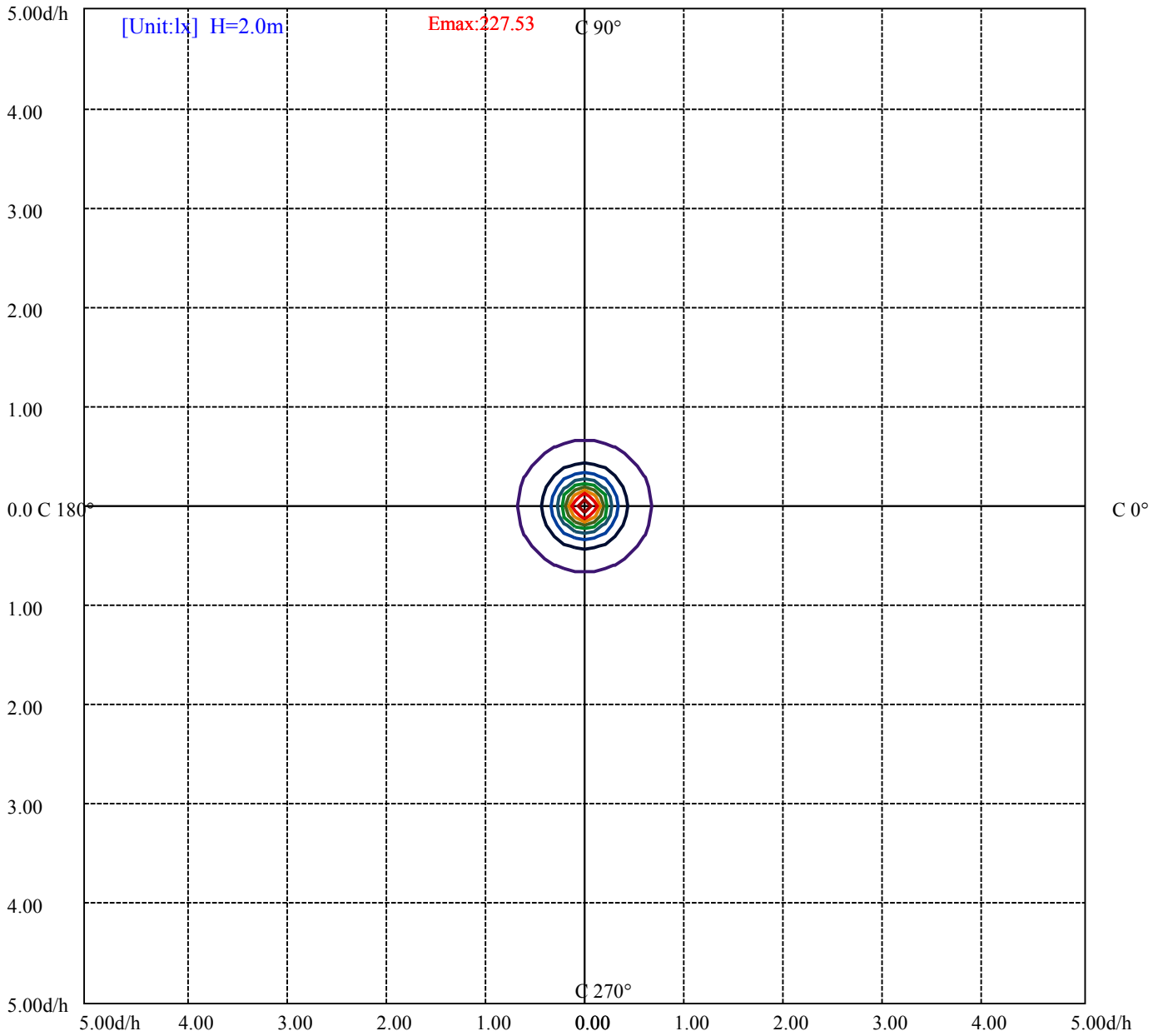
(60%Imax) 546.067

(70%Imax) 637.078

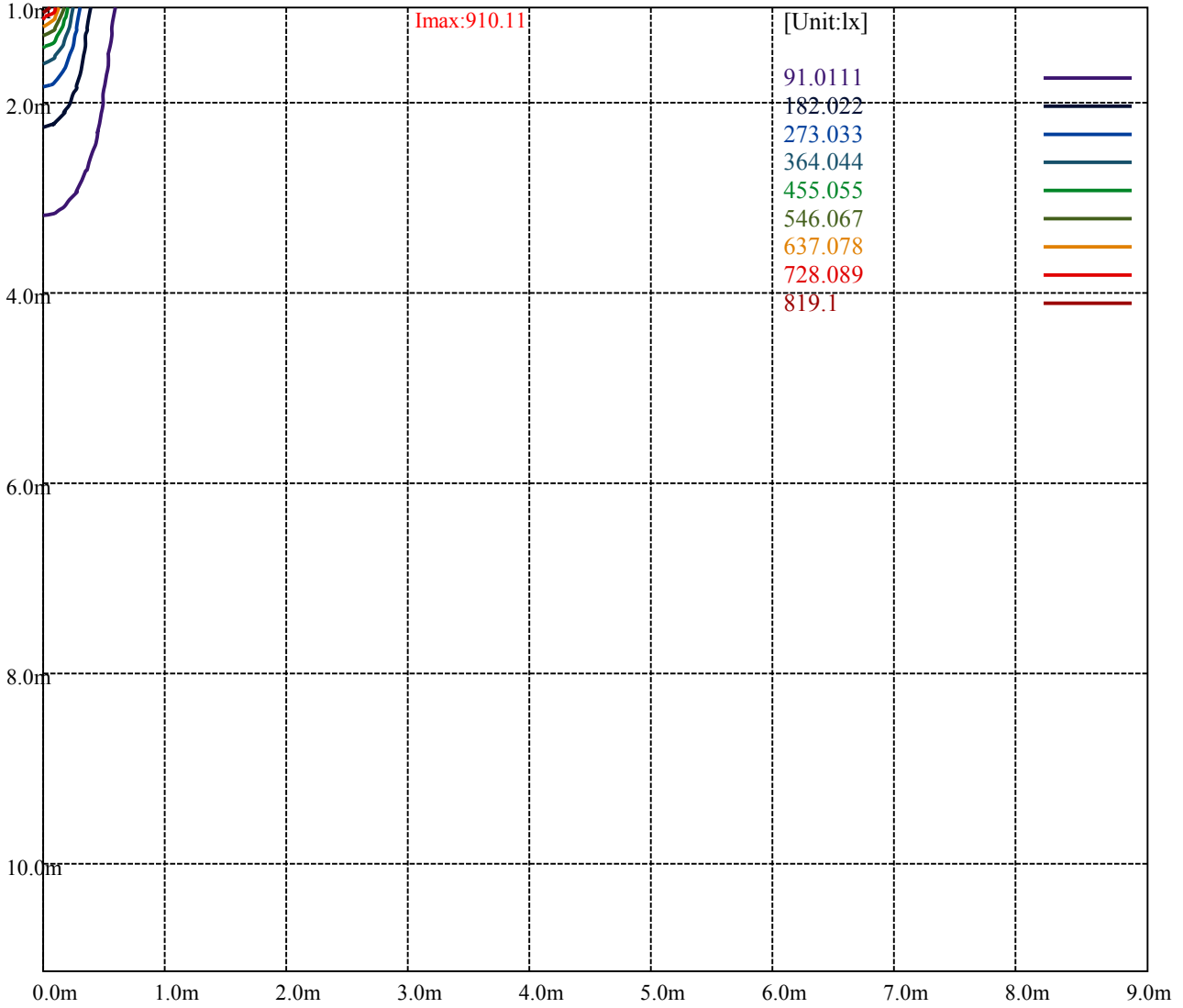
(80%Imax) 728.089

(90%Imax) 819.1





- (10%Emax) 22.75275
- (20%Emax) 45.5055
- (30%Emax) 68.25825
- (40%Emax) 91.011
- (50%Emax) 113.7637
- (60%Emax) 136.5165
- (70%Emax) 159.2693
- (80%Emax) 182.022
- (90%Emax) 204.7747



Luminance Table

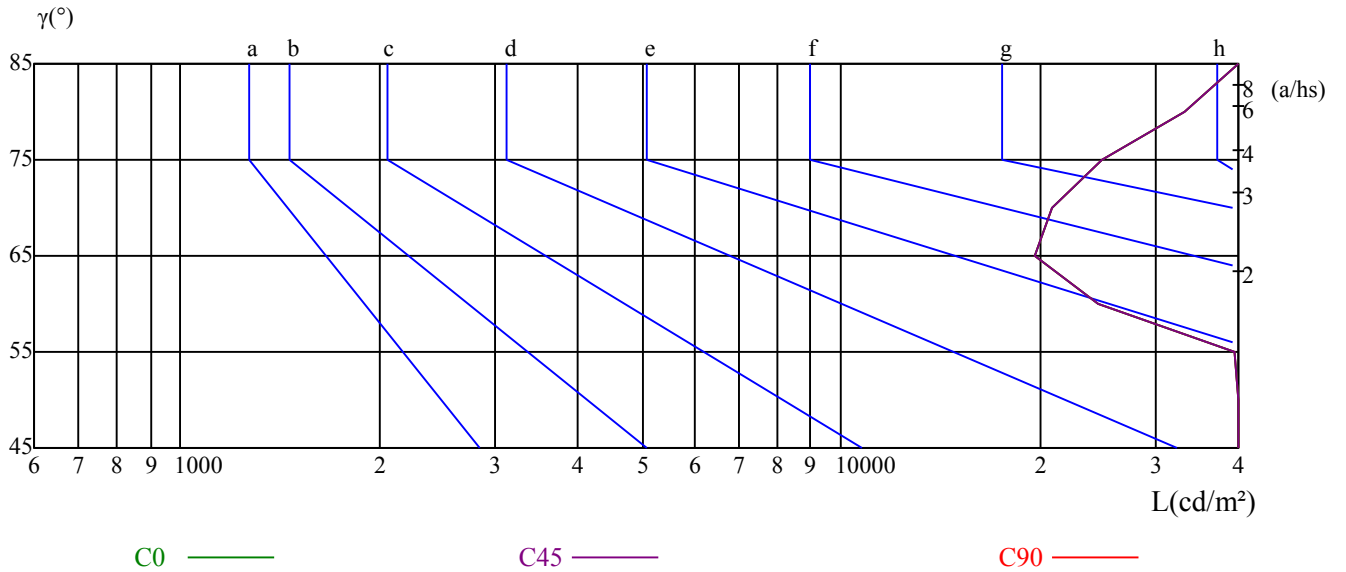
γ	45	50	55	60	65	70	75	80	85
C0	179099	56678	39472	24522	19693	20931	24887	33054	56710
C45	179099	56678	39472	24522	19693	20931	24887	33054	56710
C90	179099	56678	39472	24522	19693	20931	24887	33054	56710

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
19693	19693	19693	24887	24887	24887	56710	56710	56710

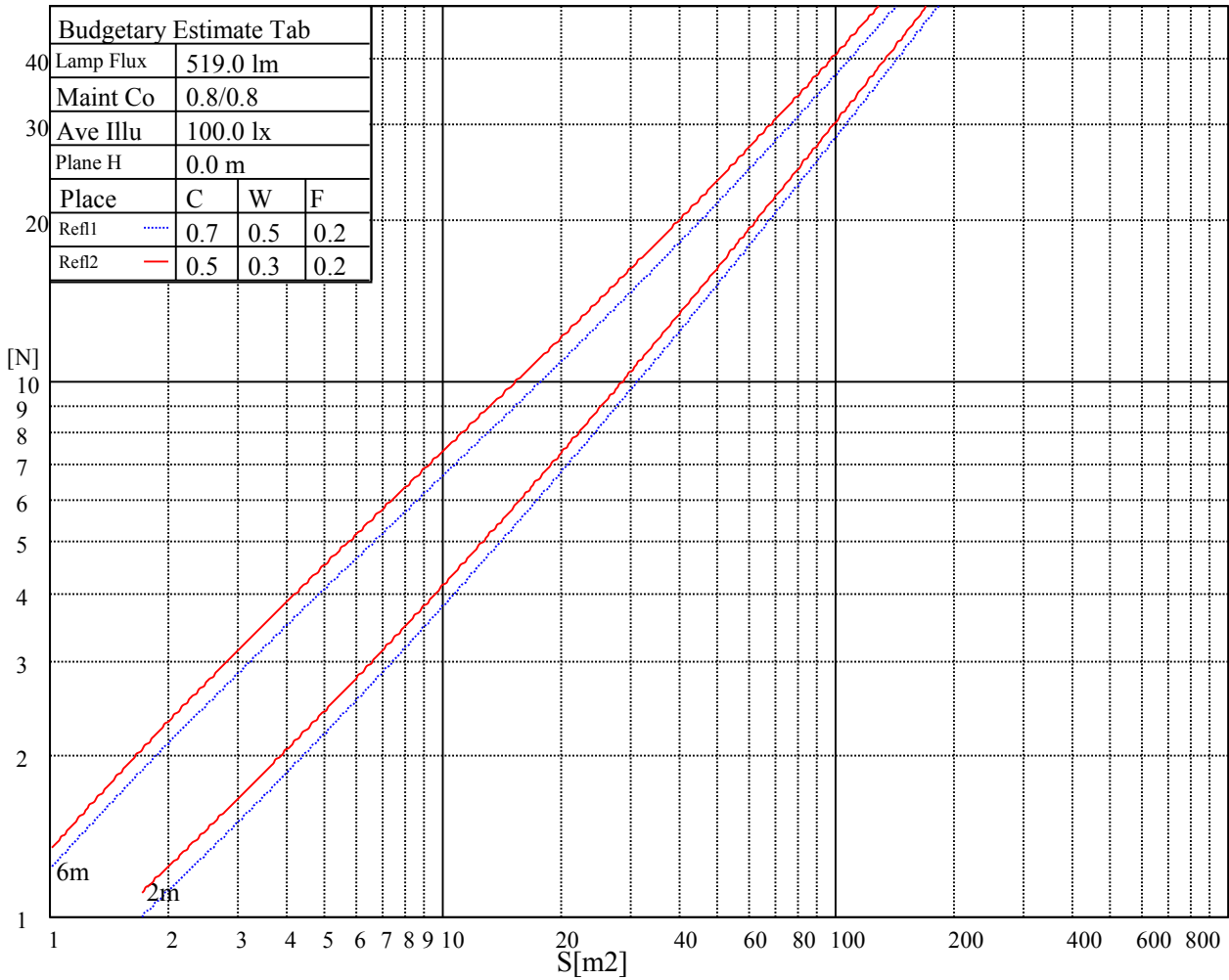
Glare Table

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

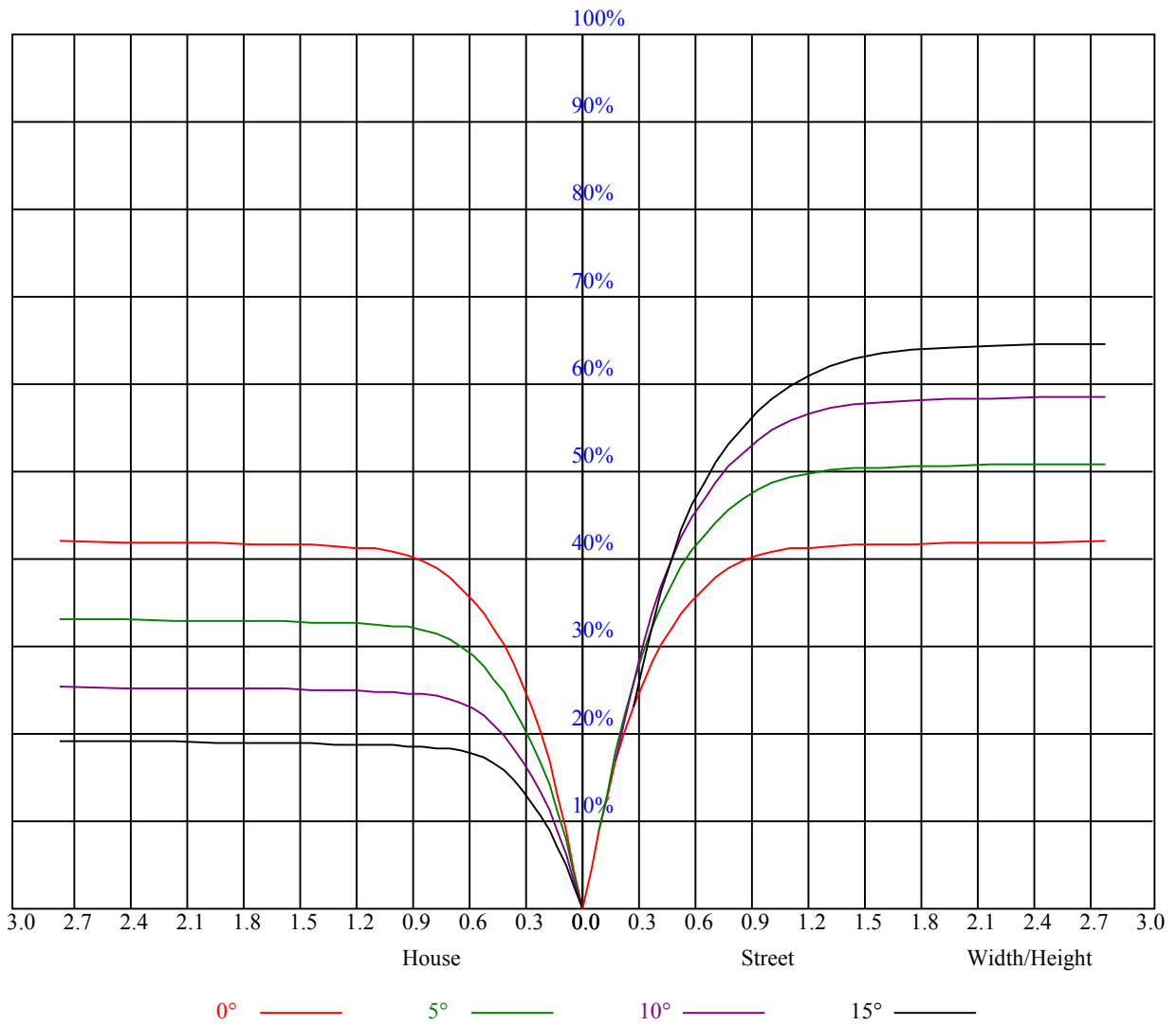
Luminance Limiting Curve



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	19.91	20.98	20.28	21.29	21.61	19.95	21.02	20.31	21.33	21.64
	3H	20.93	21.87	21.31	22.21	22.57	20.77	21.71	21.15	22.04	22.41
	4H	21.65	22.52	22.06	22.87	23.26	21.37	22.24	21.77	22.59	22.98
	6H	22.56	23.36	22.98	23.74	24.13	22.18	22.97	22.59	23.35	23.74
	8H	23.10	23.85	23.53	24.24	24.65	22.67	23.42	23.10	23.81	24.22
	12H	24.06	24.78	24.49	25.16	25.59	23.56	24.28	24.00	24.66	25.09
4H	2H	20.01	20.88	20.42	21.23	21.62	20.04	20.91	20.45	21.27	21.65
	3H	21.35	22.06	21.77	22.47	22.88	21.19	21.90	21.60	22.30	22.71
	4H	22.31	22.94	22.75	23.37	23.81	22.02	22.65	22.46	23.08	23.52
	6H	23.37	23.92	23.84	24.37	24.84	23.00	23.54	23.47	23.99	24.47
	8H	24.08	24.59	24.56	25.04	25.52	23.66	24.17	24.14	24.62	25.10
	12H	25.13	25.57	25.62	26.06	26.54	24.65	25.09	25.14	25.58	26.05
8H	4H	22.64	23.15	23.12	23.60	24.07	22.39	22.90	22.87	23.35	23.82
	6H	24.01	24.42	24.52	24.92	25.40	23.68	24.09	24.19	24.59	25.08
	8H	24.92	25.28	25.45	25.80	26.30	24.54	24.91	25.07	25.43	25.93
	12H	26.25	26.57	26.77	27.07	27.65	25.81	26.13	26.33	26.62	27.20
12H	4H	22.71	23.15	23.20	23.64	24.12	22.48	22.93	22.98	23.41	23.89
	6H	24.54	24.56	24.72	25.03	25.57	24.24	24.26	24.43	24.73	25.28
	8H	25.22	25.54	25.74	26.04	26.61	24.88	25.20	25.40	25.70	26.28
Variation with the observer position at spacings:											
S = 1.0H	2.9/-6.4					2.9/-6.4					
S = 1.5H	4.5/-6.2					4.5/-6.2					
S = 2.0H	6.2/-5.2					6.2/-5.2					
Standard tables:	BK1					BK1					
Uncorrected UGR	8.0					8.0					



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	1.01	1.01	1.01	0.98	0.98	0.98	0.94	0.94	0.94	0.90	0.90	0.90	0.86	0.86	0.86	0.85
1	0.93	0.91	0.89	0.92	0.90	0.88	0.88	0.87	0.85	0.85	0.84	0.83	0.82	0.81	0.80	0.79
2	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.80	0.78	0.76	0.78	0.76	0.74	0.73
3	0.81	0.77	0.73	0.80	0.76	0.73	0.77	0.74	0.71	0.75	0.73	0.70	0.73	0.71	0.69	0.68
4	0.76	0.71	0.67	0.75	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.63
5	0.71	0.66	0.62	0.70	0.65	0.62	0.69	0.65	0.61	0.67	0.64	0.61	0.66	0.63	0.60	0.59
6	0.67	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.57	0.64	0.60	0.57	0.62	0.59	0.57	0.55
7	0.63	0.58	0.54	0.62	0.58	0.54	0.61	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.53	0.52
8	0.60	0.55	0.51	0.59	0.54	0.51	0.58	0.54	0.51	0.57	0.53	0.51	0.56	0.53	0.50	0.49
9	0.56	0.52	0.48	0.56	0.51	0.48	0.55	0.51	0.48	0.55	0.51	0.48	0.54	0.50	0.48	0.47
10	0.54	0.49	0.46	0.53	0.49	0.46	0.53	0.48	0.45	0.52	0.48	0.45	0.51	0.48	0.45	0.44



NATA 1545-E

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	909.28	911.53	904.56	891.96	873.06	840.83	809.16	773.04	729.00
45.0	912.21	904.56	888.98	869.01	839.81	804.43	768.43	722.76	681.30
90.0	907.03	891.51	871.37	841.67	805.33	769.16	723.49	675.17	631.46
135.0	911.93	901.18	879.81	857.03	827.83	790.03	748.07	706.95	665.04
180.0	909.28	900.23	882.11	859.89	832.73	792.11	758.81	712.52	659.64
225.0	912.21	911.87	904.89	887.96	867.99	841.44	805.05	762.69	722.93
270.0	907.03	914.63	915.47	908.44	894.49	874.18	840.26	807.81	771.53
315.0	911.93	914.79	910.86	899.21	882.34	855.00	824.74	785.53	741.83
360.0	909.28	911.53	904.56	891.96	873.06	840.83	809.16	773.04	729.00
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	683.33	641.03	592.99	550.86	505.74	462.71	427.56	391.89	360.39
45.0	632.81	583.48	540.23	499.16	451.58	416.81	385.03	351.17	327.77
90.0	587.64	534.60	494.49	457.48	414.68	384.13	356.74	326.76	305.21
135.0	613.18	571.22	535.22	486.68	446.57	417.71	381.21	352.24	332.72
180.0	622.29	574.71	523.86	490.39	454.16	412.65	383.23	356.96	330.41
225.0	676.07	628.03	585.45	538.93	499.56	457.82	419.96	389.76	362.59
270.0	722.53	680.74	637.99	590.01	543.09	502.76	460.13	424.74	388.97
315.0	700.31	651.77	602.49	559.69	518.51	470.31	434.59	401.96	369.11
360.0	683.33	641.03	592.99	550.86	505.74	462.71	427.56	391.89	360.39
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	335.70	314.04	291.04	275.40	261.28	245.08	233.55	223.14	212.34
45.0	306.23	285.13	266.85	252.84	238.39	225.96	213.08	201.71	192.54
90.0	286.31	265.95	253.63	238.84	224.16	214.65	203.63	192.71	185.96
135.0	307.07	289.52	273.99	255.43	241.43	228.66	215.04	205.48	197.10
180.0	306.90	289.07	273.43	255.83	243.28	232.09	220.44	209.14	198.68
225.0	333.39	313.03	295.20	275.34	261.34	248.40	233.55	222.53	212.23
270.0	357.53	333.11	308.64	287.61	271.18	256.73	240.64	228.71	217.24
315.0	341.04	319.11	297.51	278.21	262.97	247.78	235.74	223.43	212.23
360.0	335.70	314.04	291.04	275.40	261.28	245.08	233.55	223.14	212.34
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	202.56	194.96	187.93	182.42	177.24	172.86	169.59	166.16	162.73
45.0	182.87	174.94	169.37	165.09	159.75	155.98	152.72	147.83	142.88
90.0	178.71	170.83	166.39	161.83	157.28	153.23	149.06	143.21	135.90
135.0	187.14	180.51	174.77	169.71	165.32	162.17	159.13	154.80	149.63
180.0	190.46	183.15	176.06	171.96	168.53	165.15	162.06	159.24	155.42
225.0	199.97	191.08	183.38	175.16	170.38	164.81	159.13	155.36	151.37
270.0	205.43	194.85	186.13	178.37	170.21	165.09	160.20	156.32	152.21
315.0	203.18	194.85	186.02	180.28	175.44	170.49	166.89	163.63	160.20
360.0	202.56	194.96	187.93	182.42	177.24	172.86	169.59	166.16	162.73
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	158.46	152.61	143.16	133.82	123.47	112.05	100.52	89.66	78.08
45.0	136.86	129.77	119.25	110.53	100.86	88.65	76.44	66.49	56.59
90.0	128.14	118.29	109.24	99.28	88.99	78.81	67.95	54.51	44.89
135.0	142.59	135.34	126.00	115.54	105.53	94.67	80.38	69.19	58.50
180.0	148.84	142.09	133.99	122.51	112.16	100.80	87.53	74.25	63.06
225.0	145.07	140.23	133.54	124.37	114.41	105.24	95.12	84.77	74.64
270.0	148.28	144.23	139.11	132.24	124.03	115.65	103.95	94.11	83.70
315.0	156.38	151.65	144.84	136.01	127.07	115.99	105.75	93.26	79.99
360.0	158.46	152.61	143.16	133.82	123.47	112.05	100.52	89.66	78.08

NATA 1545-E

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	63.06	52.03	41.12	32.68	24.41	19.18	15.69	14.12	13.73
45.0	46.80	37.91	28.63	21.94	16.54	13.05	12.15	11.87	10.80
90.0	36.51	27.28	21.15	16.48	13.05	11.25	10.35	9.62	8.94
135.0	45.73	35.94	27.39	19.74	14.51	11.36	9.96	9.51	8.83
180.0	51.36	41.57	31.22	22.73	17.10	12.66	10.97	10.29	9.79
225.0	61.99	50.91	40.11	31.28	24.41	18.06	13.89	11.87	11.08
270.0	73.29	60.98	52.03	43.20	33.13	24.24	18.68	14.51	12.32
315.0	68.06	56.81	43.99	34.54	26.44	18.73	15.02	12.83	12.09
360.0	63.06	52.03	41.12	32.68	24.41	19.18	15.69	14.12	13.73
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	13.44	13.16	12.66	12.04	11.25	9.06	4.89	4.11	3.88
45.0	10.58	10.18	9.11	8.72	8.44	4.95	4.44	4.28	4.05
90.0	8.10	7.59	7.20	6.86	4.84	4.61	4.44	4.22	4.11
135.0	8.16	7.54	6.92	6.30	5.91	4.84	4.05	3.99	3.83
180.0	9.11	8.61	7.99	7.43	7.09	6.64	4.33	4.05	3.88
225.0	10.24	9.56	9.23	8.33	7.65	7.54	6.98	4.50	4.22
270.0	11.36	10.91	10.24	9.45	8.44	8.55	7.37	6.47	4.84
315.0	12.60	12.32	11.98	11.53	10.80	9.68	6.75	4.16	3.94
360.0	13.44	13.16	12.66	12.04	11.25	9.06	4.89	4.11	3.88
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.83	3.60	3.43	3.38	3.26	3.15	3.09	3.04	2.93
45.0	3.94	3.83	3.71	3.60	3.49	3.38	3.32	3.21	3.15
90.0	3.99	3.83	3.77	3.66	3.49	3.43	3.32	3.26	3.26
135.0	3.71	3.60	3.49	3.38	3.26	3.15	3.04	2.98	2.93
180.0	3.71	3.60	3.49	3.32	3.26	3.15	3.04	2.93	2.87
225.0	4.11	3.94	3.77	3.66	3.54	3.43	3.32	3.21	3.15
270.0	4.61	4.33	4.16	4.05	3.88	3.77	3.66	3.54	3.43
315.0	3.83	3.66	3.54	3.43	3.32	3.21	3.21	3.09	3.04
360.0	3.83	3.60	3.43	3.38	3.26	3.15	3.09	3.04	2.93
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.93	2.87	2.76	2.70	2.64	2.59	2.53	2.42	2.42
45.0	3.09	3.04	2.87	2.87	2.81	2.70	2.64	2.59	2.53
90.0	3.15	3.09	2.98	2.93	2.81	2.76	2.70	2.59	2.53
135.0	2.87	2.81	2.81	2.87	2.93	2.93	2.87	2.87	2.76
180.0	2.81	2.70	2.64	2.59	2.53	2.48	2.42	2.36	2.31
225.0	3.04	2.98	2.93	2.81	2.76	2.76	2.64	2.53	2.48
270.0	3.32	3.26	3.15	3.15	3.04	2.98	2.87	2.81	2.76
315.0	2.93	2.93	2.87	2.81	2.76	2.70	2.64	2.59	2.48
360.0	2.93	2.87	2.76	2.70	2.64	2.59	2.53	2.42	2.42
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.42	2.36	2.19	2.14	2.03	1.97	1.91	1.80	1.80
45.0	2.42	2.36	2.25	2.25	2.14	2.08	1.74	1.69	1.69
90.0	2.48	2.36	2.31	2.19	2.14	1.80	1.74	1.69	1.69
135.0	2.48	2.36	2.31	2.31	2.25	1.86	1.80	1.80	1.74
180.0	2.25	2.14	2.14	2.08	2.03	1.86	1.86	1.86	1.63
225.0	2.42	2.36	2.31	2.25	2.19	2.14	1.91	1.91	1.80
270.0	2.64	2.64	2.53	2.36	2.36	2.19	2.14	1.86	1.80
315.0	2.53	2.53	2.36	2.19	2.31	2.08	1.97	1.86	1.74
360.0	2.42	2.36	2.19	2.14	2.03	1.97	1.91	1.80	1.80

Intensity data(cd)

C/γ(°)	90.0
0.0	1.80
45.0	1.69
90.0	1.63
135.0	1.63
180.0	1.58
225.0	1.63
270.0	1.69
315.0	1.80
360.0	1.80