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NATA

LumCAT: 1545-E	
Luminaire: 92.70.043.00	
Report No: NATA0100	Voltage(V): 9.4000
Test No: GC2019010202	Current(A): 0.3000
LampCAT: CREE CXA1304	Power (W): 2.8200
Lamp flux(lm): 322.0	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): 275.17
Efficiency(%): 85.46%
Lumens(lm)/Power(W): 97.62
Central intensity(cd): 570.909
Maximum intensity(cd): 570.909
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=27.5
[C90/270]Total=27.5
Field angle(10%Imax): [C0/180]Total=83.9
[C90/270]Total=83.9
Maximum s/h(1/2): C0_180=0.46 C90_270=0.46
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(%): 85.49%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.103%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	570.909	0.137	0.137	.042%	.050%
1.0	568.983	1.089	1.226	.338%	.445%
2.0	561.966	2.151	3.376	.668%	1.227%
3.0	550.849	3.161	6.538	.982%	2.376%
4.0	536.280	4.102	10.64	1.274%	3.867%
5.0	516.832	4.940	15.58	1.534%	5.662%
6.0	495.084	5.675	21.255	1.762%	7.724%
7.0	469.744	6.278	27.532	1.950%	10.006%
8.0	444.234	6.780	34.312	2.106%	12.470%
9.0	415.202	7.123	41.435	2.212%	15.058%
10.0	385.952	7.349	48.784	2.282%	17.729%
11.0	358.523	7.502	56.286	2.330%	20.455%
12.0	330.989	7.546	63.833	2.344%	23.198%
13.0	303.848	7.495	71.328	2.328%	25.922%
14.0	278.620	7.392	78.72	2.296%	28.608%
15.0	256.127	7.269	85.989	2.258%	31.250%
16.0	236.306	7.143	93.132	2.218%	33.846%
17.0	218.299	6.999	100.131	2.174%	36.389%
18.0	201.888	6.841	106.972	2.125%	38.876%
19.0	188.831	6.742	113.714	2.094%	41.326%
20.0	176.843	6.633	120.347	2.060%	43.736%
21.0	165.832	6.517	126.864	2.024%	46.105%
22.0	156.846	6.443	133.307	2.001%	48.446%
23.0	148.451	6.361	139.668	1.975%	50.758%
24.0	140.477	6.266	145.934	1.946%	53.035%
25.0	133.481	6.186	152.12	1.921%	55.283%
26.0	127.125	6.111	158.231	1.898%	57.504%
27.0	121.092	6.029	164.26	1.872%	59.695%
28.0	115.952	5.970	170.229	1.854%	61.864%
29.0	111.642	5.935	176.164	1.843%	64.021%
30.0	108.021	5.923	182.087	1.839%	66.174%
31.0	104.801	5.919	188.006	1.838%	68.325%
32.0	102.023	5.929	193.935	1.841%	70.479%
33.0	99.661	5.952	199.887	1.849%	72.643%
34.0	97.291	5.966	205.854	1.853%	74.811%
35.0	94.690	5.956	211.809	1.850%	76.975%
36.0	91.252	5.882	217.691	1.827%	79.113%
37.0	87.237	5.757	223.448	1.788%	81.205%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	82.301	5.556	229.005	1.726%	83.224%
39.0	76.282	5.264	234.269	1.635%	85.138%
40.0	70.151	4.945	239.214	1.536%	86.935%
41.0	63.949	4.601	243.815	1.429%	88.607%
42.0	56.791	4.167	247.982	1.294%	90.121%
43.0	49.613	3.710	251.693	1.152%	91.469%
44.0	43.066	3.281	254.973	1.019%	92.662%
45.0	36.105	2.800	257.773	.869%	93.679%
46.0	29.363	2.316	260.089	.719%	94.521%
47.0	23.337	1.872	261.961	.581%	95.201%
48.0	17.845	1.454	263.415	.452%	95.730%
49.0	13.198	1.092	264.507	.339%	96.127%
50.0	9.738	0.818	265.325	.254%	96.424%
51.0	7.685	0.655	265.98	.203%	96.662%
52.0	6.623	0.572	266.553	.178%	96.870%
53.0	6.152	0.539	267.091	.167%	97.066%
54.0	5.829	0.517	267.609	.161%	97.254%
55.0	5.520	0.496	268.104	.154%	97.434%
56.0	5.210	0.474	268.578	.147%	97.606%
57.0	4.922	0.453	269.031	.141%	97.770%
58.0	4.472	0.416	269.447	.129%	97.922%
59.0	3.691	0.347	269.794	.108%	98.048%
60.0	2.904	0.276	270.069	.086%	98.148%
61.0	2.447	0.235	270.304	.073%	98.233%
62.0	2.334	0.226	270.53	.070%	98.315%
63.0	2.243	0.219	270.749	.068%	98.395%
64.0	2.166	0.213	270.963	.066%	98.473%
65.0	2.081	0.207	271.17	.064%	98.548%
66.0	2.011	0.201	271.371	.063%	98.621%
67.0	1.941	0.196	271.567	.061%	98.692%
68.0	1.884	0.192	271.758	.060%	98.762%
69.0	1.849	0.189	271.948	.059%	98.831%
70.0	1.821	0.188	272.135	.058%	98.899%
71.0	1.765	0.183	272.318	.057%	98.965%
72.0	1.709	0.178	272.497	.055%	99.030%
73.0	1.666	0.175	272.671	.054%	99.094%
74.0	1.645	0.173	272.845	.054%	99.157%
75.0	1.631	0.173	273.018	.054%	99.219%

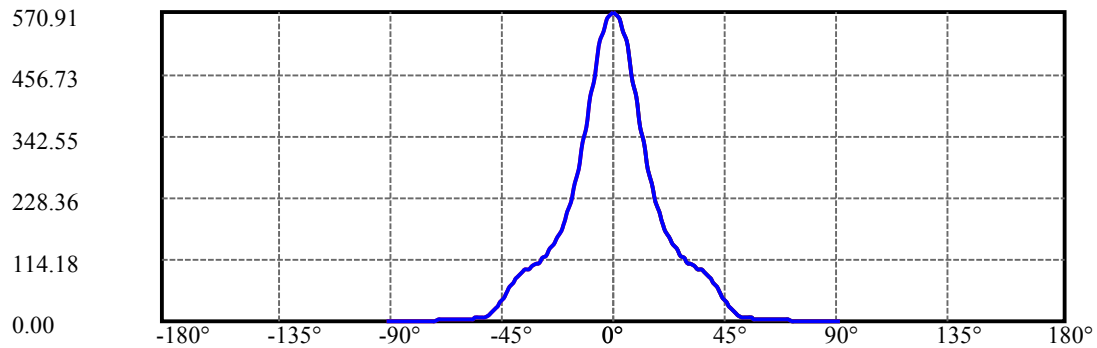
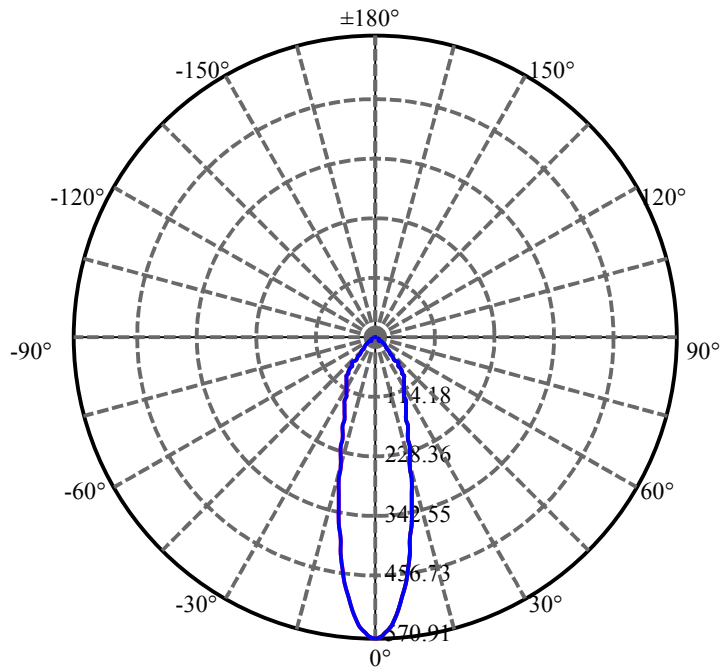
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.610	0.171	273.189	.053%	99.282%
77.0	1.589	0.170	273.359	.053%	99.343%
78.0	1.554	0.167	273.525	.052%	99.404%
79.0	1.533	0.165	273.69	.051%	99.464%
80.0	1.512	0.163	273.854	.051%	99.523%
81.0	1.484	0.161	274.014	.050%	99.582%
82.0	1.427	0.155	274.169	.048%	99.638%
83.0	1.385	0.151	274.32	.047%	99.693%
84.0	1.364	0.149	274.469	.046%	99.747%
85.0	1.315	0.144	274.613	.045%	99.799%
86.0	1.238	0.135	274.748	.042%	99.848%
87.0	1.153	0.126	274.874	.039%	99.894%
88.0	1.090	0.119	274.994	.037%	99.938%
89.0	1.055	0.116	275.109	.036%	99.980%
90.0	1.027	0.056	275.166	.017%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	182.09	56.55%	66.17%
0-40	239.21	74.29%	86.93%
0-60	270.07	83.87%	98.15%
0-90	275.11	85.44%	99.98%
0-120	275.11	85.44%	99.98%
0-180	275.17	85.46%	100.00%
60-90	5.32	1.65%	1.93%
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%
0-36.42	220.13	68.36%	80.00%

ZONAL LUMEN SUMMARY

0-10	48.78
10-20	71.56
20-30	61.74
30-40	57.13
40-50	26.11
50-60	4.74
60-70	2.07
70-80	1.72
80-90	1.26
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:

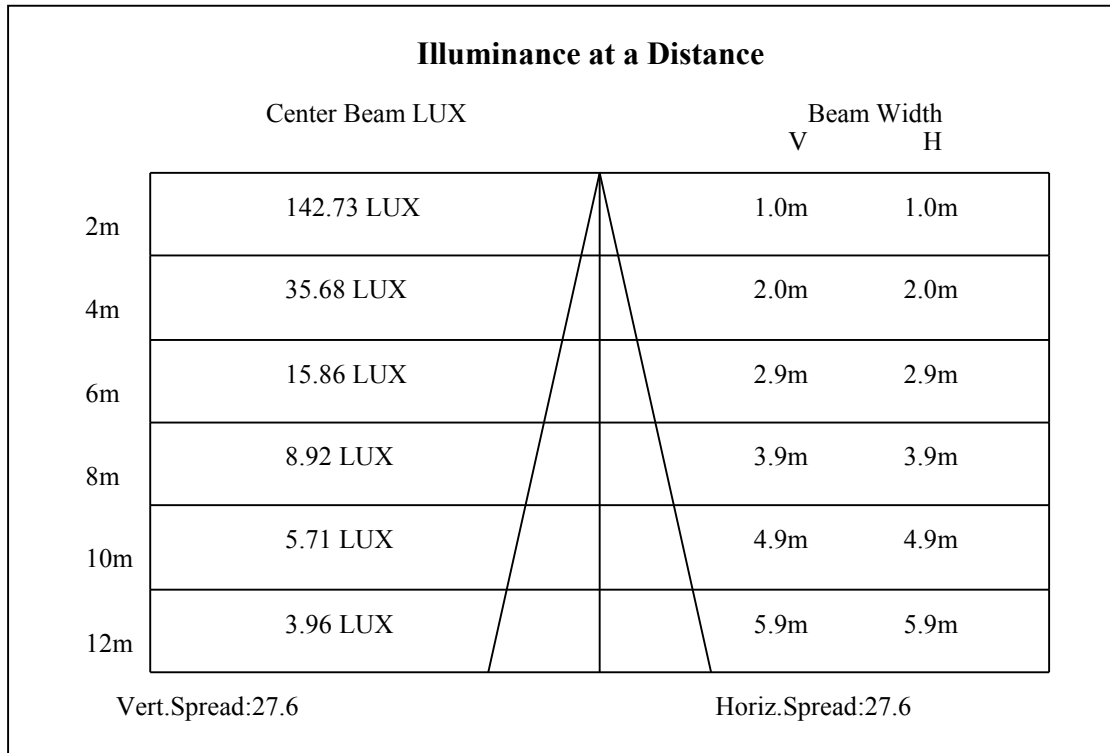
C90/C270:

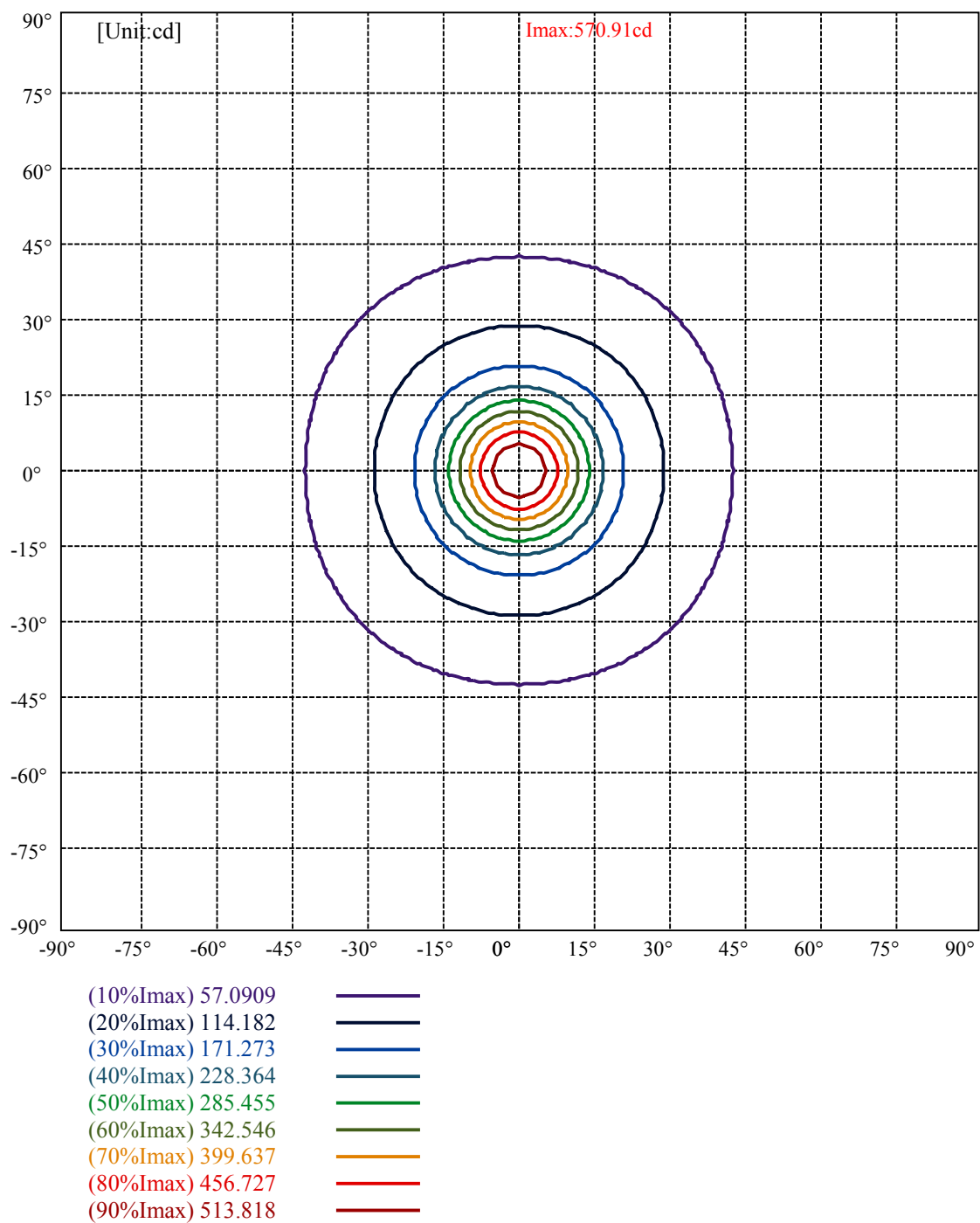
Field angle(10%Imax):C0/180Left:42.0 Right:42.0

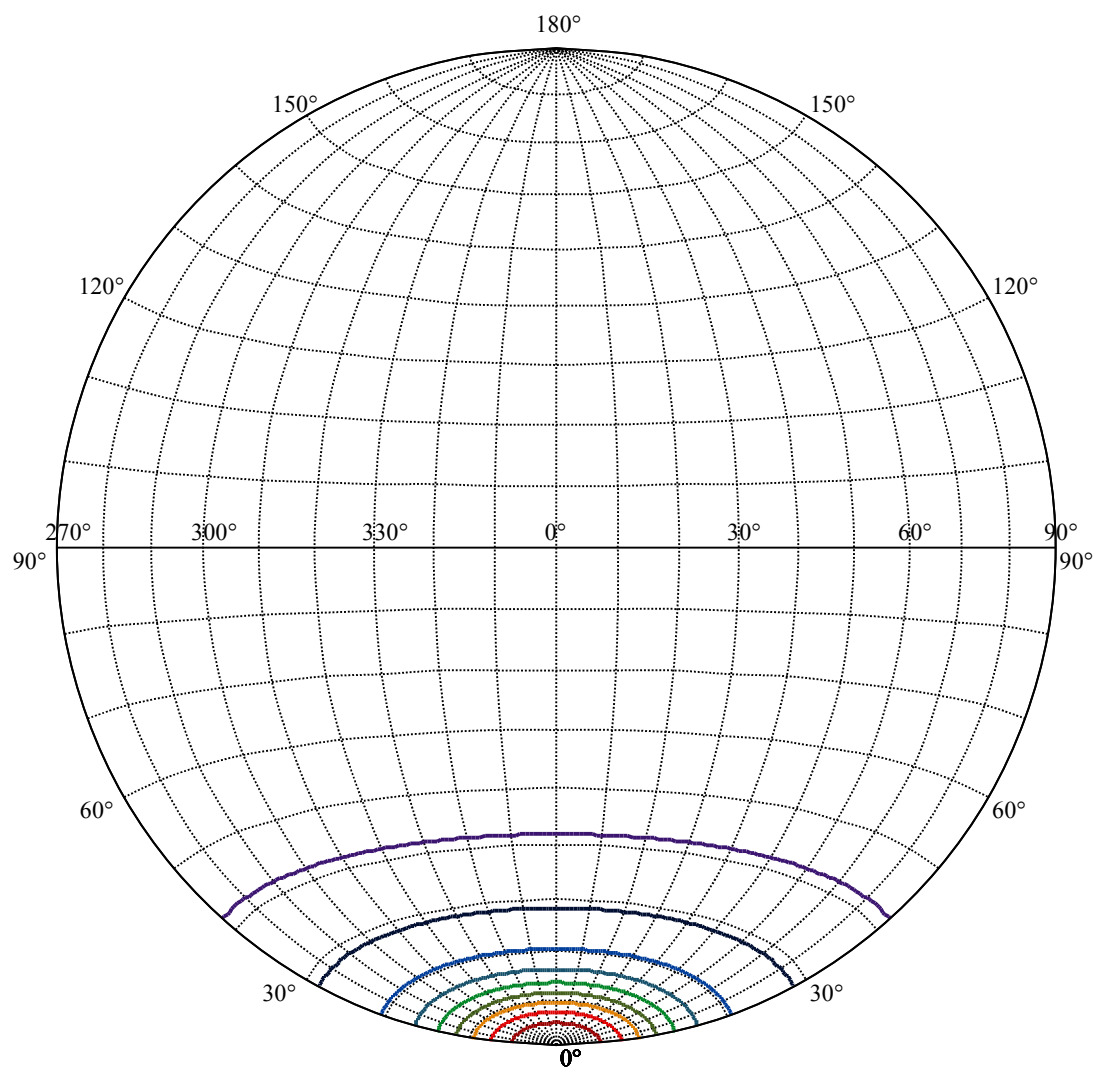
:C90/270Left:42.0 Right:42.0

Beam Angle(50%Imax):C0/180Left:13.7 Right:13.7

:C90/270Left:13.7 Right:13.7







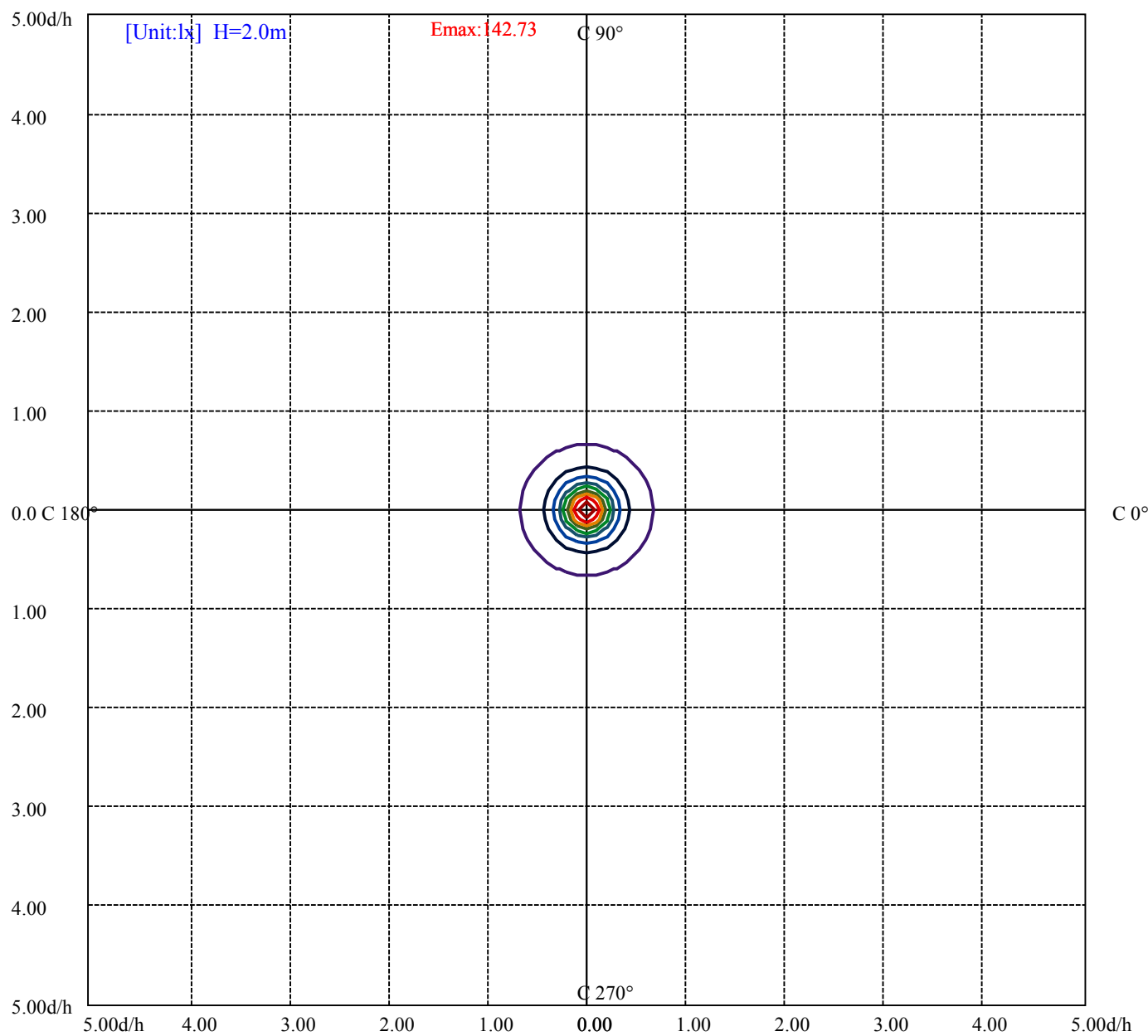
House

[Unit:cd]

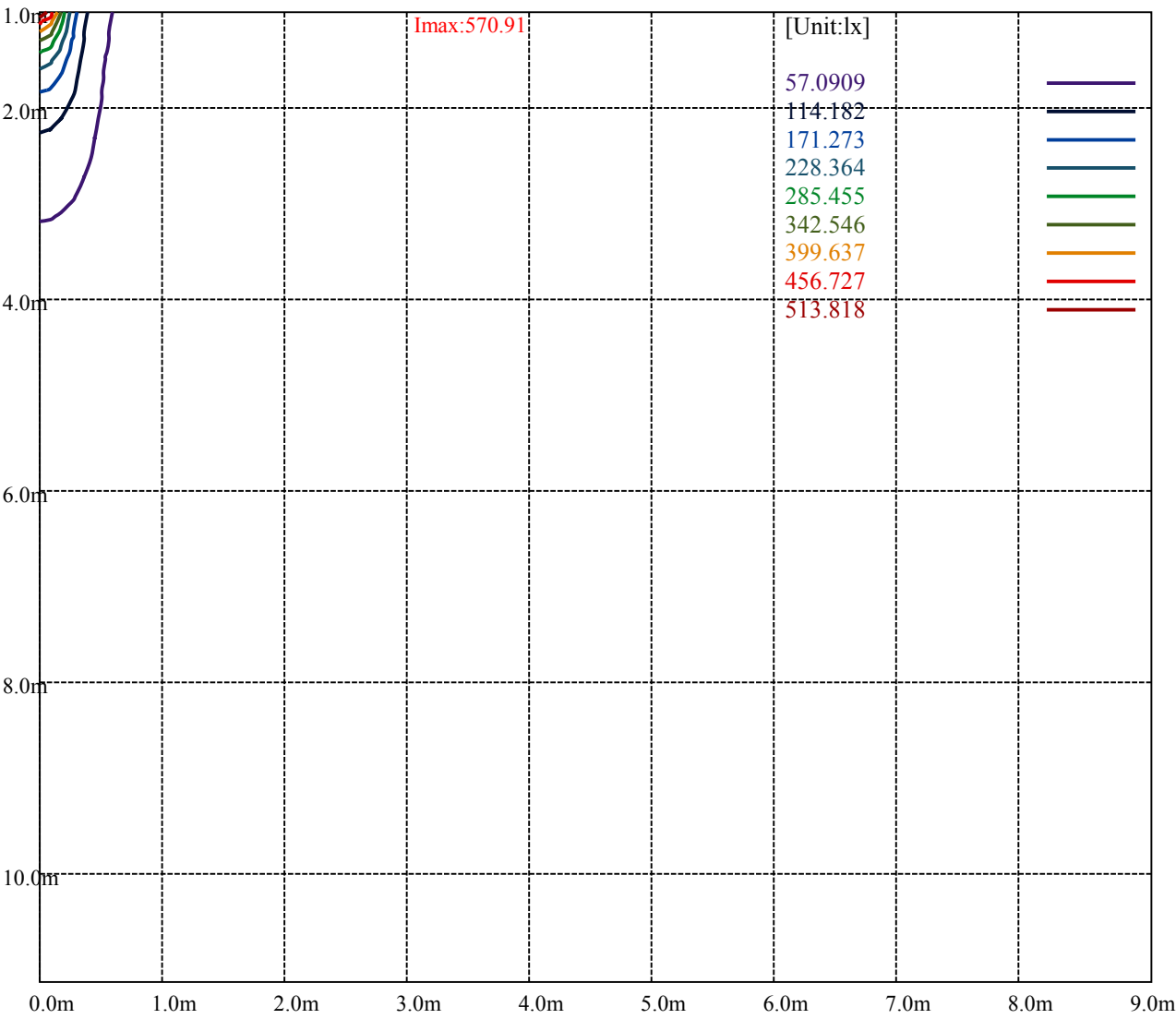
Road

Imax:570.91
(10%Imax) 57.0909
(20%Imax) 114.182
(30%Imax) 171.273
(40%Imax) 228.364
(50%Imax) 285.455
(60%Imax) 342.546
(70%Imax) 399.637
(80%Imax) 456.727
(90%Imax) 513.818





(10%Emax)	14.27273	
(20%Emax)	28.5455	
(30%Emax)	42.81825	
(40%Emax)	57.091	
(50%Emax)	71.36375	
(60%Emax)	85.63625	
(70%Emax)	99.909	
(80%Emax)	114.1817	
(90%Emax)	128.4545	



Luminance Table

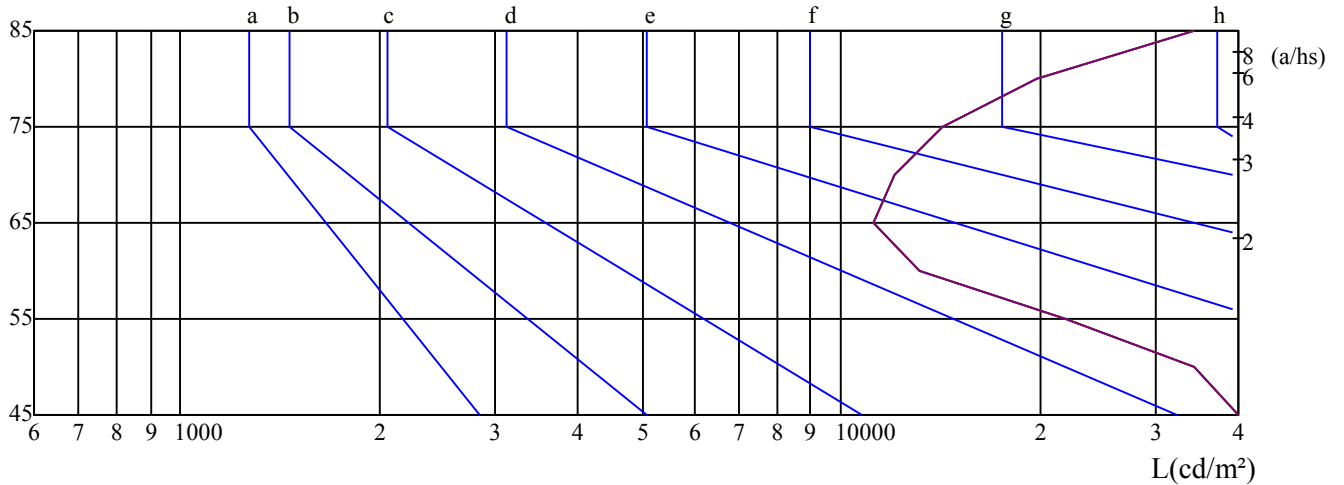
γ	45	50	55	60	65	70	75	80	85
C0	115784	34354	21821	13170	11167	12074	14292	19741	34209
C45	115784	34354	21821	13170	11167	12074	14292	19741	34209
C90	115784	34354	21821	13170	11167	12074	14292	19741	34209

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
11167	11167	11167	14292	14292	14292	34209	34209	34209

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

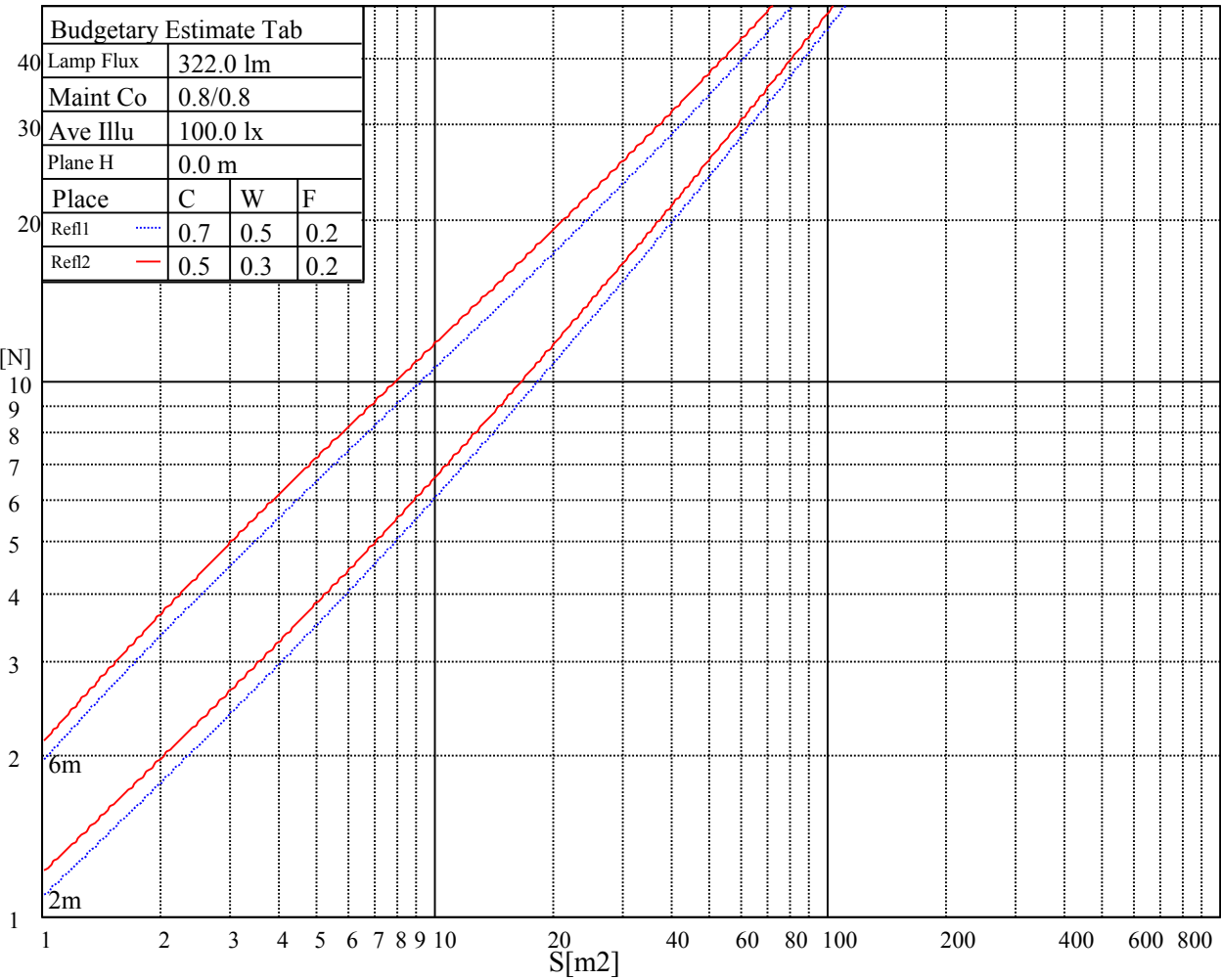
 $\gamma(^{\circ})$ 

C0 ———

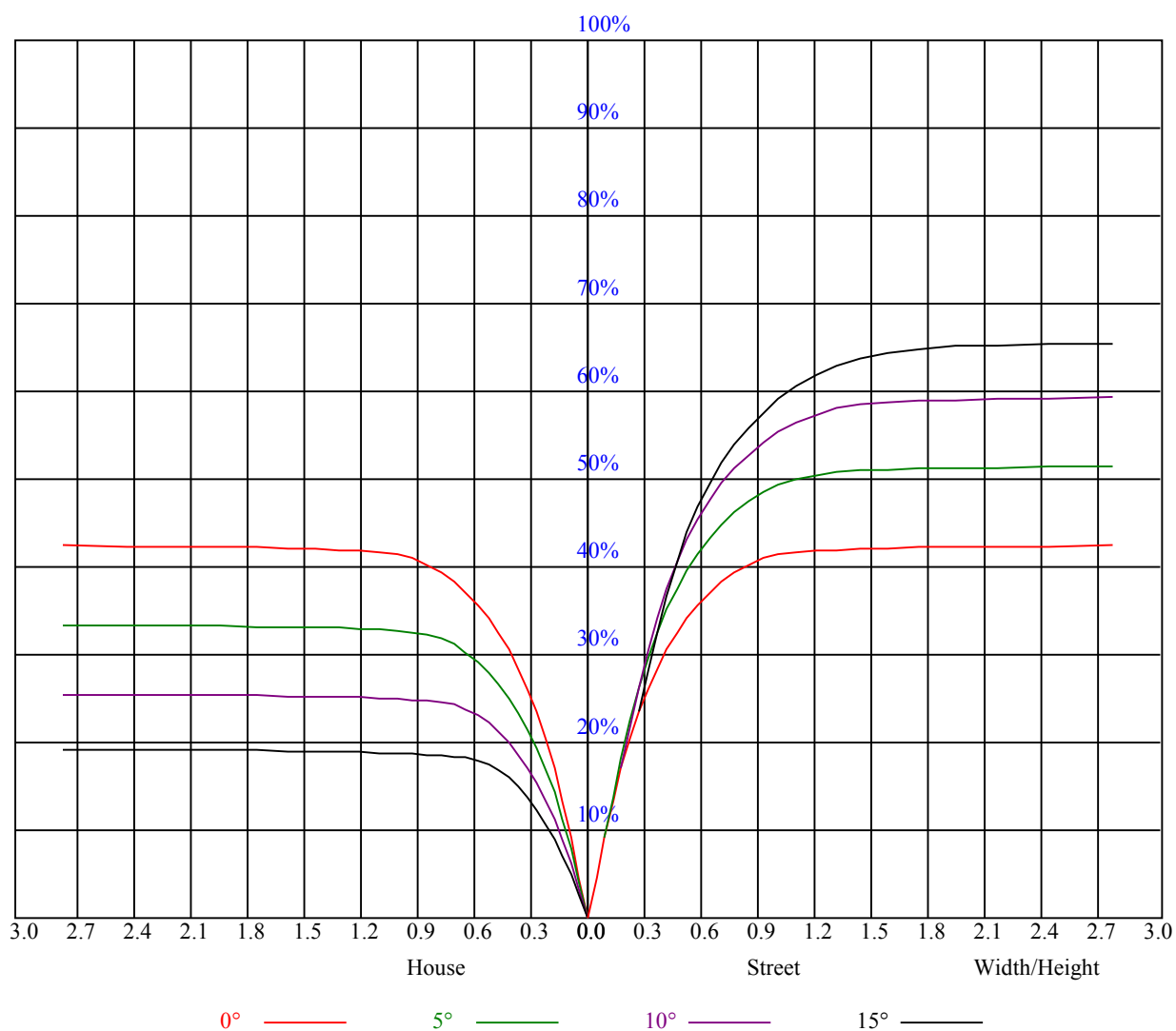
C45 ———

C90 ———

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	19.25	20.32	19.61	20.63	20.94	18.70	19.77	19.07	20.08	20.40
	3H	20.26	21.20	20.65	21.54	21.90	19.71	20.65	20.09	20.98	21.35
	4H	20.96	21.83	21.37	22.19	22.58	20.42	21.29	20.83	21.64	22.03
	6H	21.87	22.67	22.29	23.04	23.44	21.39	22.19	21.81	22.56	22.96
	8H	22.41	23.16	22.85	23.55	23.96	21.99	22.74	22.42	23.13	23.54
	12H	23.37	24.08	23.80	24.47	24.90	23.07	23.78	23.50	24.17	24.60
4H	2H	19.35	20.22	19.75	20.57	20.96	18.86	19.73	19.27	20.08	20.47
	3H	20.69	21.40	21.11	21.81	22.21	20.22	20.93	20.64	21.34	21.74
	4H	21.63	22.26	22.07	22.69	23.13	21.18	21.81	21.62	22.23	22.68
	6H	22.71	23.25	23.18	23.70	24.17	22.32	22.86	22.79	23.31	23.78
	8H	23.43	23.93	23.90	24.38	24.86	23.10	23.60	23.57	24.05	24.53
	12H	24.47	24.91	24.96	25.40	25.88	24.25	24.69	24.74	25.17	25.65
8H	4H	21.99	22.50	22.47	22.95	23.42	21.61	22.11	22.08	22.56	23.04
	6H	23.40	23.80	23.90	24.30	24.79	23.09	23.49	23.60	24.00	24.48
	8H	24.32	24.68	24.85	25.20	25.70	24.07	24.43	24.60	24.95	25.45
	12H	25.63	25.95	26.15	26.45	27.03	25.46	25.78	25.98	26.28	26.86
12H	4H	22.08	22.52	22.57	23.01	23.49	21.72	22.16	22.21	22.65	23.12
	6H	23.95	23.97	24.14	24.44	24.99	23.67	23.69	23.86	24.16	24.71
	8H	24.65	24.97	25.17	25.46	26.04	24.43	24.75	24.95	25.24	25.82
Variation with the observer position at spacings:											
S = 1.0H		2.9/-7.1					2.9/-7.1				
S = 1.5H		4.5/-6.7					4.5/-6.7				
S = 2.0H		6.3/-5.6					6.3/-5.6				
Standard tables:		BK1					BK1				
Uncorrected UGR		6.3					6.3				



RHOC	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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.94	0.92	0.90	0.92	0.91	0.89	0.89	0.87	0.86	0.86	0.85	0.83	0.83	0.82	0.81	0.79
2	0.88	0.84	0.81	0.86	0.83	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.79	0.77	0.75	0.74
3	0.82	0.77	0.74	0.81	0.77	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.69
4	0.77	0.72	0.68	0.76	0.71	0.68	0.74	0.70	0.67	0.72	0.69	0.66	0.70	0.68	0.65	0.64
5	0.72	0.67	0.63	0.71	0.66	0.63	0.69	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.61	0.60
6	0.68	0.62	0.59	0.67	0.62	0.59	0.66	0.61	0.58	0.64	0.61	0.58	0.63	0.60	0.57	0.56
7	0.64	0.59	0.55	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.57	0.54	0.60	0.57	0.54	0.53
8	0.60	0.55	0.52	0.60	0.55	0.52	0.59	0.55	0.51	0.58	0.54	0.51	0.57	0.54	0.51	0.50
9	0.57	0.52	0.49	0.57	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.48	0.55	0.51	0.48	0.47
10	0.54	0.50	0.46	0.54	0.49	0.46	0.53	0.49	0.46	0.53	0.49	0.46	0.52	0.48	0.46	0.45



NATA 1545-E

Intensity data(cd)									Appendix Page: 17 Total:19
C/ γ (°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	571.11	567.23	558.62	545.51	530.21	511.65	484.65	461.70	438.08
45.0	571.95	569.76	562.67	551.36	537.58	516.32	495.96	473.23	452.08
90.0	571.56	569.98	563.01	553.16	539.61	517.67	499.78	473.63	442.29
135.0	569.03	571.50	568.80	562.50	551.03	534.49	515.70	490.78	466.48
180.0	571.11	570.83	565.14	556.14	541.46	524.48	501.30	474.24	448.43
225.0	571.95	569.48	562.56	550.52	533.87	515.70	494.94	465.81	440.78
270.0	571.56	570.04	561.49	550.58	536.40	514.01	493.20	470.64	443.53
315.0	569.03	563.06	553.44	537.02	520.09	500.34	475.14	447.92	422.21
360.0	571.11	567.23	558.62	545.51	530.21	511.65	484.65	461.70	438.08
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	406.74	380.70	355.11	327.54	300.88	278.61	255.77	237.26	218.98
45.0	417.32	390.66	367.37	334.97	306.73	286.03	258.19	238.56	222.19
90.0	418.78	387.96	354.21	331.26	306.06	273.94	255.49	236.19	216.84
135.0	437.96	407.31	379.91	352.69	320.34	295.99	272.31	247.84	230.01
180.0	421.54	388.07	361.69	335.98	305.04	281.70	260.49	238.84	219.66
225.0	414.73	380.98	353.81	327.32	302.23	273.54	252.79	234.11	215.27
270.0	415.01	388.80	358.99	333.00	304.93	278.44	256.78	235.24	216.23
315.0	389.53	363.15	337.11	305.16	284.57	260.72	237.21	222.41	207.23
360.0	406.74	380.70	355.11	327.54	300.88	278.61	255.77	237.26	218.98
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	202.73	190.07	177.47	166.50	157.56	148.95	139.22	132.36	126.11
45.0	204.69	191.42	180.45	167.85	158.01	149.51	140.46	133.71	127.07
90.0	199.63	186.58	173.98	162.90	154.07	145.18	137.93	130.56	123.75
135.0	212.85	196.82	184.11	173.64	162.84	153.62	146.36	138.94	132.36
180.0	204.81	190.29	178.88	168.24	158.91	151.48	143.89	136.91	131.23
225.0	199.35	187.03	175.05	164.48	156.15	147.77	140.85	133.82	127.35
270.0	201.66	188.94	175.16	165.60	156.88	148.05	139.89	133.31	126.56
315.0	189.39	179.49	169.65	157.44	150.36	143.04	135.23	128.25	122.57
360.0	202.73	190.07	177.47	166.50	157.56	148.95	139.22	132.36	126.11
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	119.93	114.75	111.04	107.61	104.74	102.49	100.35	98.78	96.47
45.0	119.98	114.98	110.64	106.31	102.71	99.84	96.98	94.44	92.14
90.0	118.41	113.63	108.39	104.57	101.53	98.27	95.96	93.83	91.69
135.0	125.66	119.93	115.20	111.15	107.16	104.46	102.15	99.62	97.54
180.0	125.83	119.98	115.93	112.50	108.96	106.31	103.89	100.97	98.21
225.0	122.01	116.66	112.95	109.97	107.38	104.51	102.49	100.13	96.81
270.0	120.26	115.54	111.09	107.83	104.63	101.70	99.39	96.81	93.60
315.0	116.66	112.16	107.89	104.23	101.31	98.61	96.08	93.77	91.07
360.0	119.93	114.75	111.04	107.61	104.74	102.49	100.35	98.78	96.47
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	93.32	89.78	85.39	79.59	73.52	67.61	59.68	52.88	45.90
45.0	89.04	85.67	80.94	75.38	69.86	64.07	56.42	50.12	44.04
90.0	88.43	84.99	80.83	74.76	69.41	63.68	56.81	50.01	44.04
135.0	95.12	91.69	87.41	82.80	76.67	70.59	63.39	56.25	49.44
180.0	94.67	89.27	84.88	78.41	70.54	64.63	57.77	48.49	42.47
225.0	92.70	88.14	82.13	75.49	69.53	62.38	55.91	48.66	41.46
270.0	90.06	86.06	79.71	74.08	67.95	60.92	53.89	47.76	40.89
315.0	86.68	82.29	77.12	69.75	63.73	57.71	50.46	42.75	36.28
360.0	93.32	89.78	85.39	79.59	73.52	67.61	59.68	52.88	45.90

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Intensity data(cd)										Appendix Page: 18 Total:19
C/ γ (°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0	
0.0	38.25	30.77	24.41	18.00	13.16	9.23	6.81	5.74	5.46	
45.0	36.68	30.94	25.54	19.63	14.51	10.91	8.27	6.64	5.79	
90.0	37.24	31.16	24.69	18.84	14.40	10.18	7.82	6.47	5.85	
135.0	41.57	33.98	27.68	21.71	15.24	11.36	8.61	6.64	5.74	
180.0	36.00	27.17	22.28	17.04	12.15	8.66	6.75	5.85	5.57	
225.0	35.04	28.86	21.71	16.54	12.49	9.28	7.82	7.54	7.37	
270.0	33.81	28.07	22.11	17.38	13.22	10.29	8.66	7.99	7.54	
315.0	30.26	23.96	18.28	13.61	10.41	7.99	6.75	6.13	5.91	
360.0	38.25	30.77	24.41	18.00	13.16	9.23	6.81	5.74	5.46	
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0	
0.0	5.12	4.84	4.56	4.16	3.83	3.38	2.42	2.31	2.19	
45.0	5.46	5.06	4.78	4.44	4.11	3.94	2.87	2.31	2.19	
90.0	5.34	5.01	4.73	4.56	4.16	3.88	3.26	2.53	2.42	
135.0	5.46	5.12	4.84	4.61	4.22	3.94	3.66	2.64	2.42	
180.0	5.40	5.18	4.95	4.67	4.44	4.16	3.15	2.42	2.31	
225.0	7.14	6.92	6.58	6.30	5.74	3.94	2.70	2.59	2.48	
270.0	7.20	6.86	6.36	5.91	5.34	3.71	2.76	2.59	2.48	
315.0	5.51	5.18	4.89	4.73	3.94	2.59	2.42	2.19	2.19	
360.0	5.12	4.84	4.56	4.16	3.83	3.38	2.42	2.31	2.19	
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0	
0.0	2.08	1.97	1.91	1.86	1.80	1.74	1.69	1.69	1.63	
45.0	2.14	2.03	1.97	1.86	1.80	1.74	1.74	1.69	1.63	
90.0	2.36	2.31	2.19	2.08	2.03	1.97	1.91	1.91	1.86	
135.0	2.36	2.25	2.19	2.08	2.03	1.97	1.91	1.86	1.86	
180.0	2.19	2.14	2.03	1.97	1.91	1.86	1.86	1.80	1.74	
225.0	2.36	2.31	2.19	2.19	2.08	2.03	1.97	1.97	1.91	
270.0	2.36	2.31	2.19	2.14	2.08	2.03	2.03	1.97	1.86	
315.0	2.08	2.03	1.97	1.91	1.80	1.74	1.69	1.69	1.63	
360.0	2.08	1.97	1.91	1.86	1.80	1.74	1.69	1.69	1.63	
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0	
0.0	1.58	1.52	1.46	1.46	1.41	1.41	1.35	1.35	1.35	
45.0	1.52	1.46	1.52	1.46	1.41	1.41	1.35	1.35	1.35	
90.0	1.80	1.74	1.63	1.63	1.58	1.58	1.52	1.52	1.46	
135.0	1.80	1.74	1.74	1.74	1.69	1.69	1.63	1.63	1.58	
180.0	1.69	1.69	1.63	1.63	1.63	1.58	1.58	1.52	1.52	
225.0	1.91	1.86	1.91	1.91	1.97	1.97	2.03	1.97	1.97	
270.0	1.80	1.80	1.74	1.74	1.74	1.69	1.63	1.58	1.52	
315.0	1.58	1.52	1.52	1.46	1.46	1.41	1.35	1.35	1.35	
360.0	1.58	1.52	1.46	1.46	1.41	1.41	1.35	1.35	1.35	
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0	
0.0	1.29	1.29	1.29	1.24	1.18	1.18	1.24	1.07	1.13	
45.0	1.29	1.24	1.24	1.24	1.24	1.18	1.13	1.07	1.07	
90.0	1.41	1.35	1.35	1.29	1.24	1.13	1.07	1.01	1.01	
135.0	1.63	1.63	1.58	1.46	1.46	1.46	1.24	1.24	1.07	
180.0	1.52	1.46	1.41	1.52	1.41	1.13	1.13	1.13	1.01	
225.0	1.91	1.74	1.58	1.58	1.52	1.41	1.18	1.07	1.07	
270.0	1.52	1.41	1.41	1.35	1.29	1.24	1.13	1.07	1.01	
315.0	1.29	1.29	1.24	1.24	1.18	1.18	1.13	1.07	1.07	
360.0	1.29	1.29	1.29	1.24	1.18	1.18	1.24	1.07	1.13	

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Intensity data(cd)

Appendix Page: 19 Total:19

C/γ(°)	90.0
0.0	1.07
45.0	1.01
90.0	1.01
135.0	1.01
180.0	1.01
225.0	1.01
270.0	1.01
315.0	1.07
360.0	1.07