



NATA LIGHTING CO.,LTD.
www.nata.cn
Email:info@nata.com
Tel:+86-750-3770000 Fax:+86-750-3771111
Address:380JinOu Road,GaoXin Zone,Jiang Men City,Guangdong,China

NATA

LumCAT: 1449-E	
Luminaire: 92.70.043.00	
Report No: NATA0100	Voltage(V): 9.4000
Test No: GC2019010206	Current(A): 0.3000
LampCAT: CREE CXA1304	Power (W): 2.8200
Lamp flux(lm): 322.0	PF: 1.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 44	Width(mm): 44
Phm Type: C	Height(mm): 0

Photometric Results

Lumens(lm): 288.60
Efficiency(%): 89.63%
Lumens(lm)/Power(W): 102.52
Central intensity(cd): 2174.063
Maximum intensity(cd): 2174.063
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=12.5
[C90/270]Total=12.5
Field angle(10%Imax): [C0/180]Total=27.6
[C90/270]Total=27.6
Maximum s/h(1/2): C0_180=0.22 C90_270=0.22
Maximum s/h(1/4): C0_180=0.23 C90_270=0.23
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 89.79%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.468%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2174.063	0.520	0.52	.162%	.180%
1.0	2143.898	4.103	4.623	1.274%	1.602%
2.0	2034.633	7.787	12.41	2.418%	4.300%
3.0	1859.695	10.673	23.083	3.315%	7.998%
4.0	1642.711	12.566	35.649	3.902%	12.352%
5.0	1348.495	12.888	48.538	4.003%	16.818%
6.0	1140.581	13.074	61.612	4.060%	21.348%
7.0	930.720	12.438	74.05	3.863%	25.658%
8.0	745.263	11.374	85.424	3.532%	29.599%
9.0	593.719	10.185	95.609	3.163%	33.128%
10.0	465.166	8.858	104.467	2.751%	36.198%
11.0	367.102	7.681	112.148	2.386%	38.859%
12.0	299.032	6.818	118.966	2.117%	41.222%
13.0	243.338	6.003	124.969	1.864%	43.302%
14.0	210.459	5.583	130.552	1.734%	45.236%
15.0	183.713	5.214	135.767	1.619%	47.043%
16.0	168.630	5.097	140.864	1.583%	48.809%
17.0	158.055	5.068	145.931	1.574%	50.565%
18.0	149.850	5.078	151.009	1.577%	52.324%
19.0	142.959	5.104	156.113	1.585%	54.093%
20.0	137.222	5.147	161.26	1.598%	55.876%
21.0	132.567	5.210	166.47	1.618%	57.681%
22.0	128.327	5.272	171.741	1.637%	59.508%
23.0	124.488	5.334	177.075	1.657%	61.356%
24.0	120.916	5.393	182.469	1.675%	63.225%
25.0	117.661	5.453	187.922	1.693%	65.115%
26.0	114.870	5.522	193.444	1.715%	67.028%
27.0	112.416	5.597	199.04	1.738%	68.967%
28.0	110.025	5.664	204.705	1.759%	70.930%
29.0	107.810	5.732	210.436	1.780%	72.916%
30.0	105.750	5.798	216.235	1.801%	74.925%
31.0	103.500	5.846	222.08	1.815%	76.950%
32.0	101.391	5.892	227.972	1.830%	78.992%
33.0	99.492	5.942	233.914	1.845%	81.051%
34.0	97.523	5.980	239.895	1.857%	83.123%
35.0	95.020	5.977	245.871	1.856%	85.194%
36.0	92.644	5.972	251.843	1.855%	87.263%
37.0	90.169	5.951	257.794	1.848%	89.325%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	84.909	5.733	263.526	1.780%	91.311%
39.0	74.412	5.135	268.661	1.595%	93.091%
40.0	61.088	4.306	272.967	1.337%	94.583%
41.0	47.152	3.392	276.36	1.054%	95.758%
42.0	32.920	2.416	278.775	.750%	96.595%
43.0	19.336	1.446	280.221	.449%	97.096%
44.0	10.765	0.820	281.041	.255%	97.380%
45.0	6.166	0.478	281.52	.148%	97.546%
46.0	5.098	0.402	281.922	.125%	97.685%
47.0	4.584	0.368	282.289	.114%	97.813%
48.0	3.987	0.325	282.614	.101%	97.925%
49.0	3.396	0.281	282.895	.087%	98.023%
50.0	2.918	0.245	283.141	.076%	98.108%
51.0	2.363	0.201	283.342	.063%	98.178%
52.0	2.039	0.176	283.518	.055%	98.239%
53.0	1.856	0.163	283.681	.050%	98.295%
54.0	1.723	0.153	283.833	.047%	98.348%
55.0	1.659	0.149	283.983	.046%	98.400%
56.0	1.575	0.143	284.126	.044%	98.449%
57.0	1.533	0.141	284.267	.044%	98.498%
58.0	1.505	0.140	284.407	.043%	98.546%
59.0	1.470	0.138	284.545	.043%	98.594%
60.0	1.455	0.138	284.683	.043%	98.642%
61.0	1.420	0.136	284.819	.042%	98.689%
62.0	1.406	0.136	284.955	.042%	98.737%
63.0	1.399	0.137	285.092	.042%	98.784%
64.0	1.371	0.135	285.227	.042%	98.831%
65.0	1.357	0.135	285.362	.042%	98.878%
66.0	1.343	0.135	285.497	.042%	98.924%
67.0	1.343	0.136	285.632	.042%	98.971%
68.0	1.336	0.136	285.768	.042%	99.018%
69.0	1.329	0.136	285.904	.042%	99.065%
70.0	1.322	0.136	286.04	.042%	99.113%
71.0	1.308	0.136	286.176	.042%	99.160%
72.0	1.308	0.136	286.312	.042%	99.207%
73.0	1.294	0.136	286.448	.042%	99.254%
74.0	1.294	0.136	286.584	.042%	99.301%
75.0	1.280	0.136	286.72	.042%	99.348%

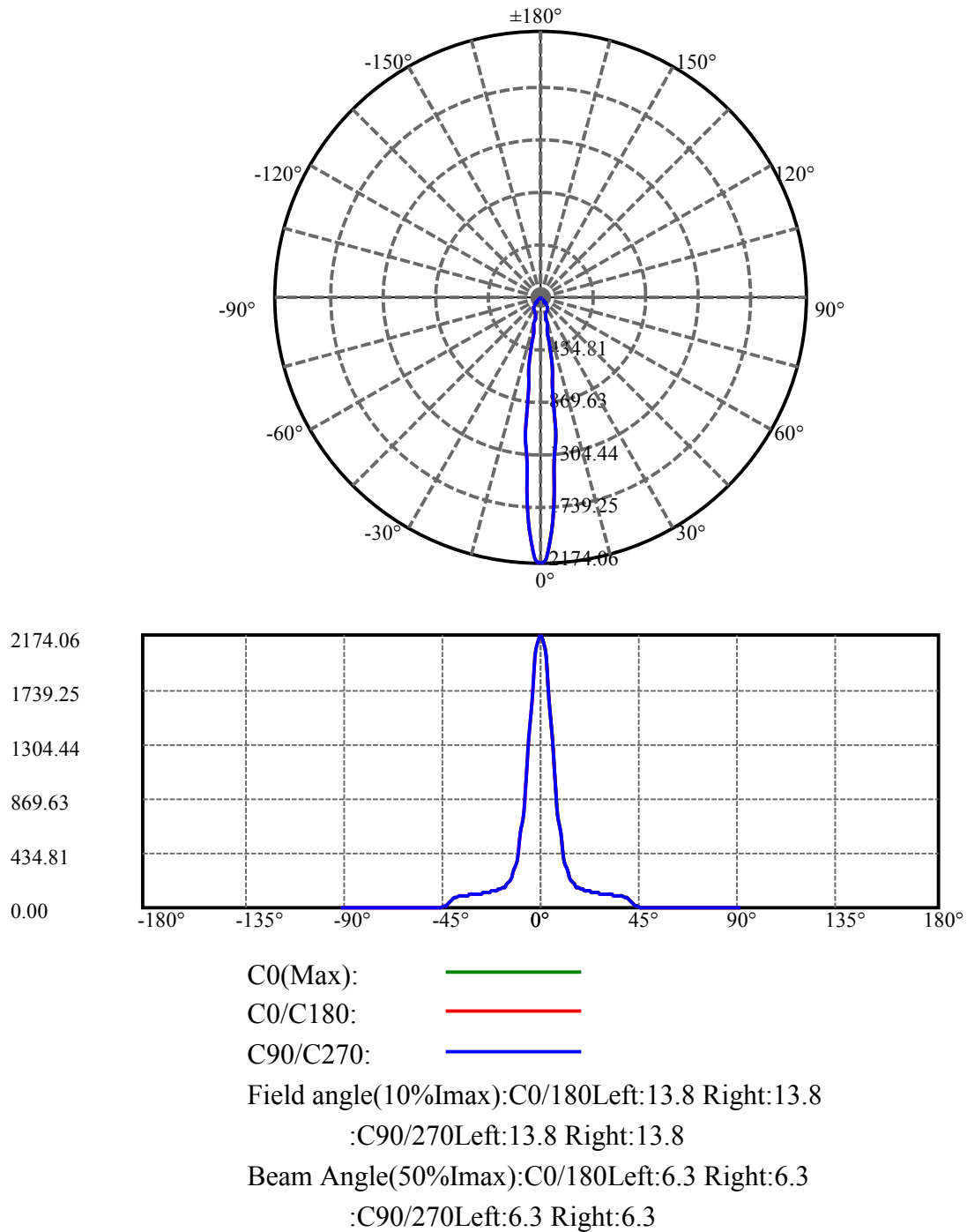
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1.259	0.134	286.854	.042%	99.394%
77.0	1.259	0.134	286.988	.042%	99.441%
78.0	1.252	0.134	287.123	.042%	99.488%
79.0	1.252	0.135	287.257	.042%	99.534%
80.0	1.245	0.134	287.392	.042%	99.581%
81.0	1.223	0.133	287.524	.041%	99.627%
82.0	1.202	0.131	287.655	.041%	99.672%
83.0	1.202	0.131	287.786	.041%	99.717%
84.0	1.188	0.130	287.915	.040%	99.762%
85.0	1.195	0.131	288.046	.041%	99.807%
86.0	1.167	0.128	288.173	.040%	99.852%
87.0	1.132	0.124	288.297	.038%	99.895%
88.0	1.118	0.123	288.42	.038%	99.937%
89.0	1.104	0.121	288.541	.038%	99.979%
90.0	1.104	0.061	288.602	.019%	100.000%

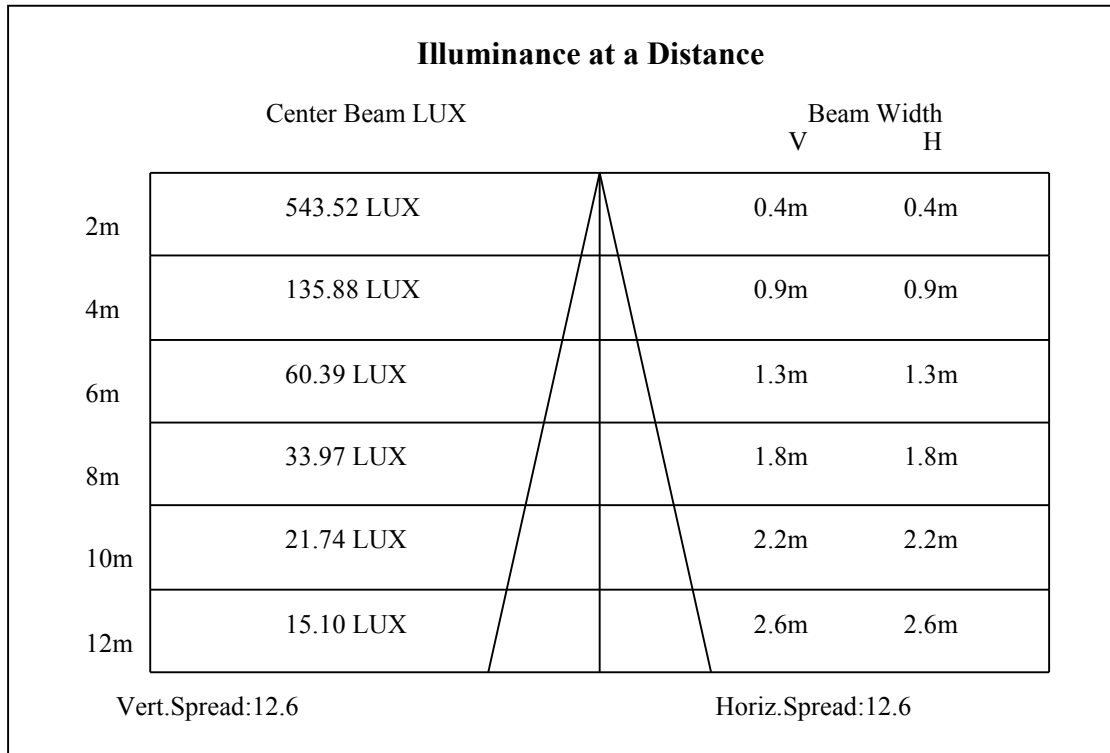
ZONAL LUMEN SUMMARY

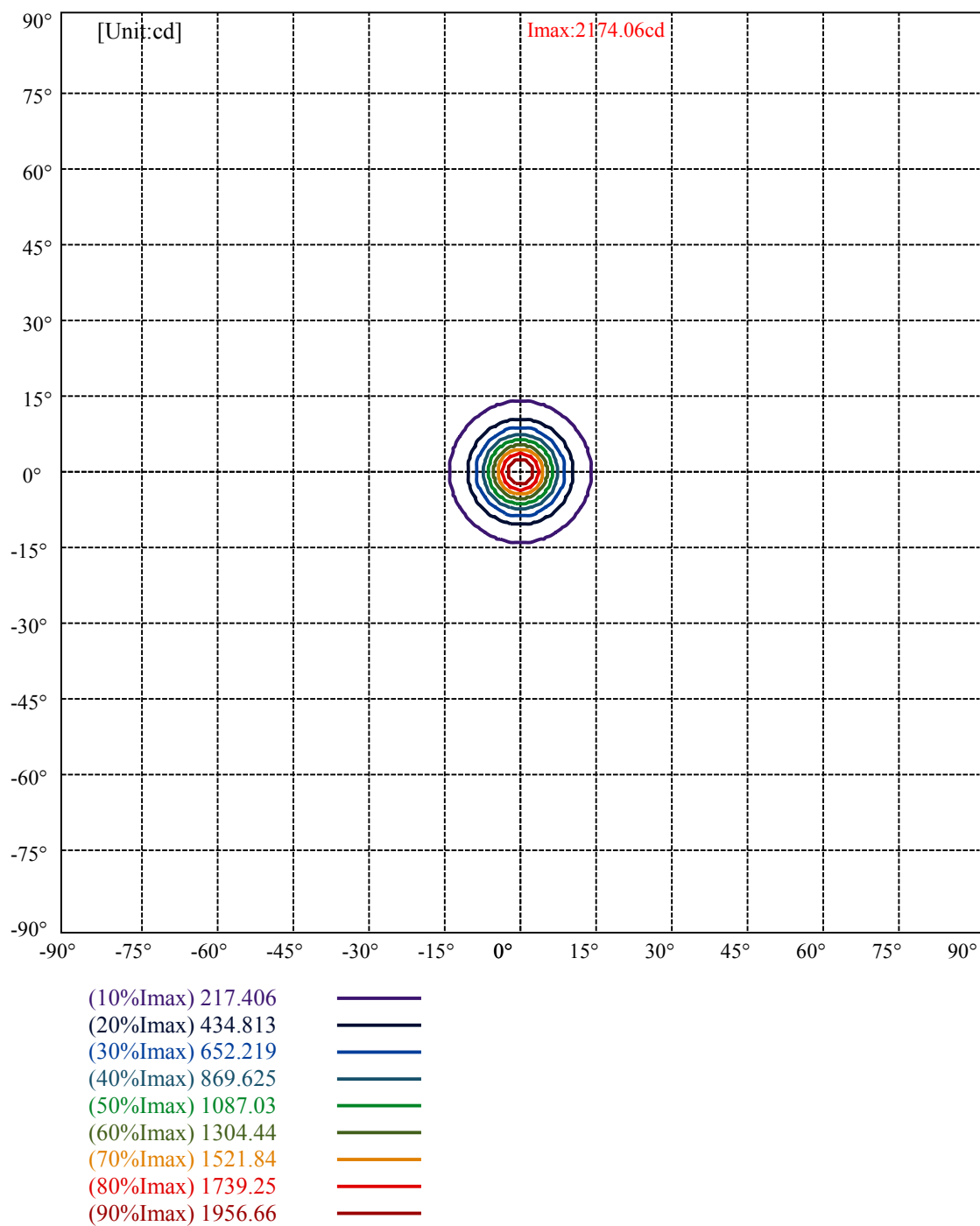
Zone	Lumens	%Lamp	%Fixt
0-30	216.23	67.15%	74.92%
0-40	272.97	84.77%	94.58%
0-60	284.68	88.41%	98.64%
0-90	288.54	89.61%	99.98%
0-120	288.54	89.61%	99.98%
0-180	288.60	89.63%	100.00%
60-90	4.00	1.24%	1.38%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-32.49	230.88	71.70%	80.00%

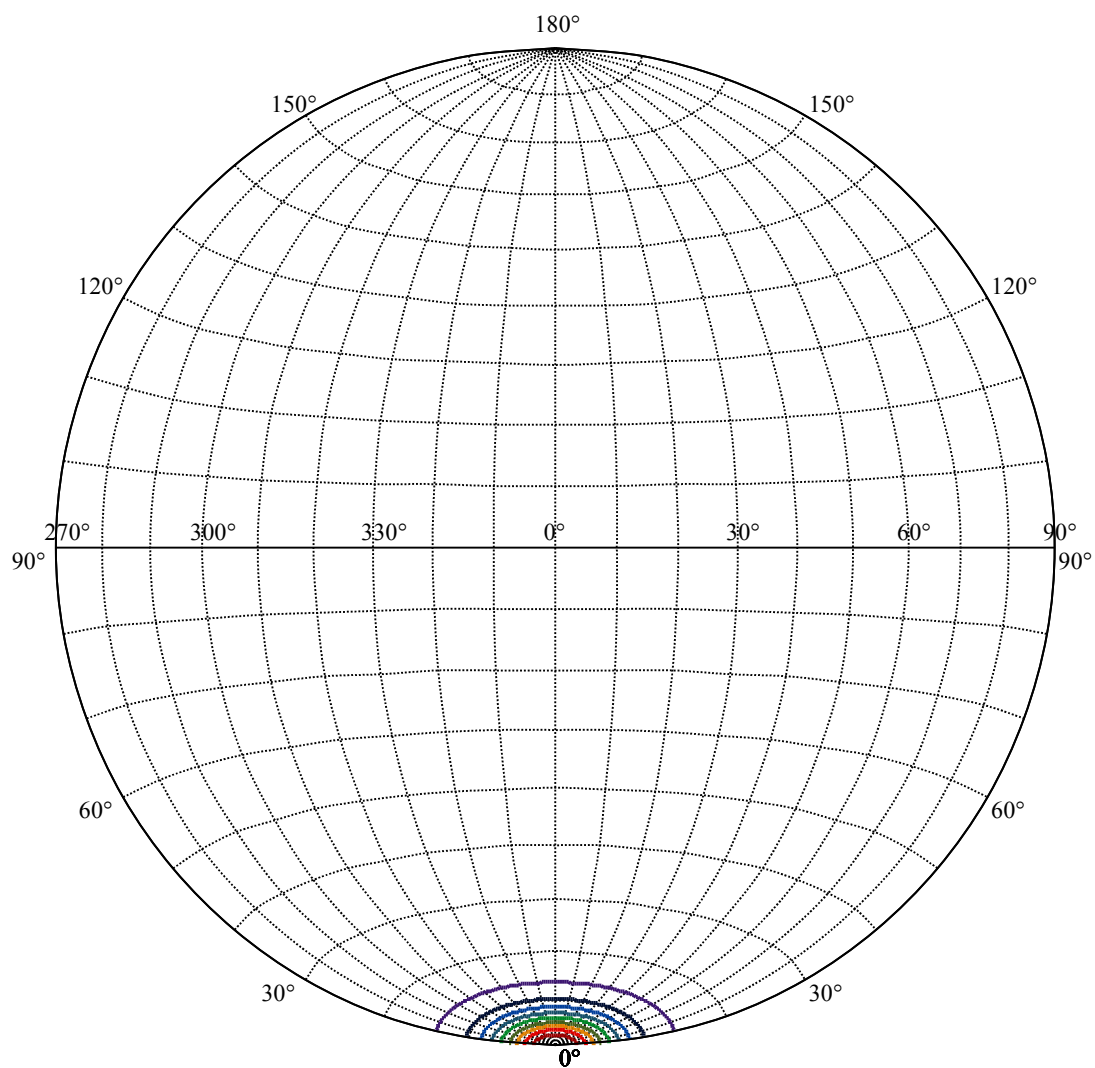
ZONAL LUMEN SUMMARY

0-10	104.47
10-20	56.79
20-30	54.97
30-40	56.73
40-50	10.17
50-60	1.54
60-70	1.36
70-80	1.35
80-90	1.15
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









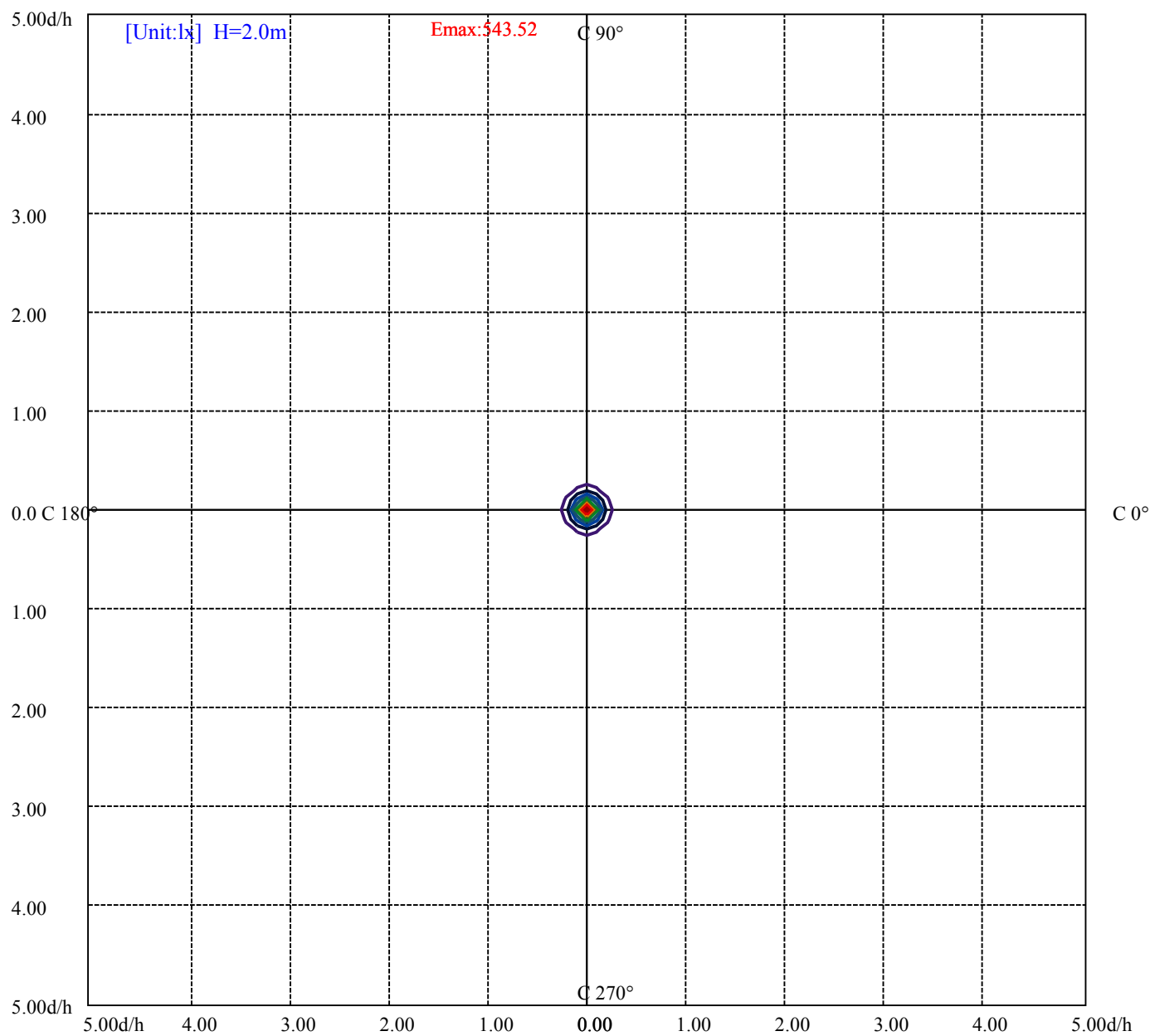
House

[Unit:cd]

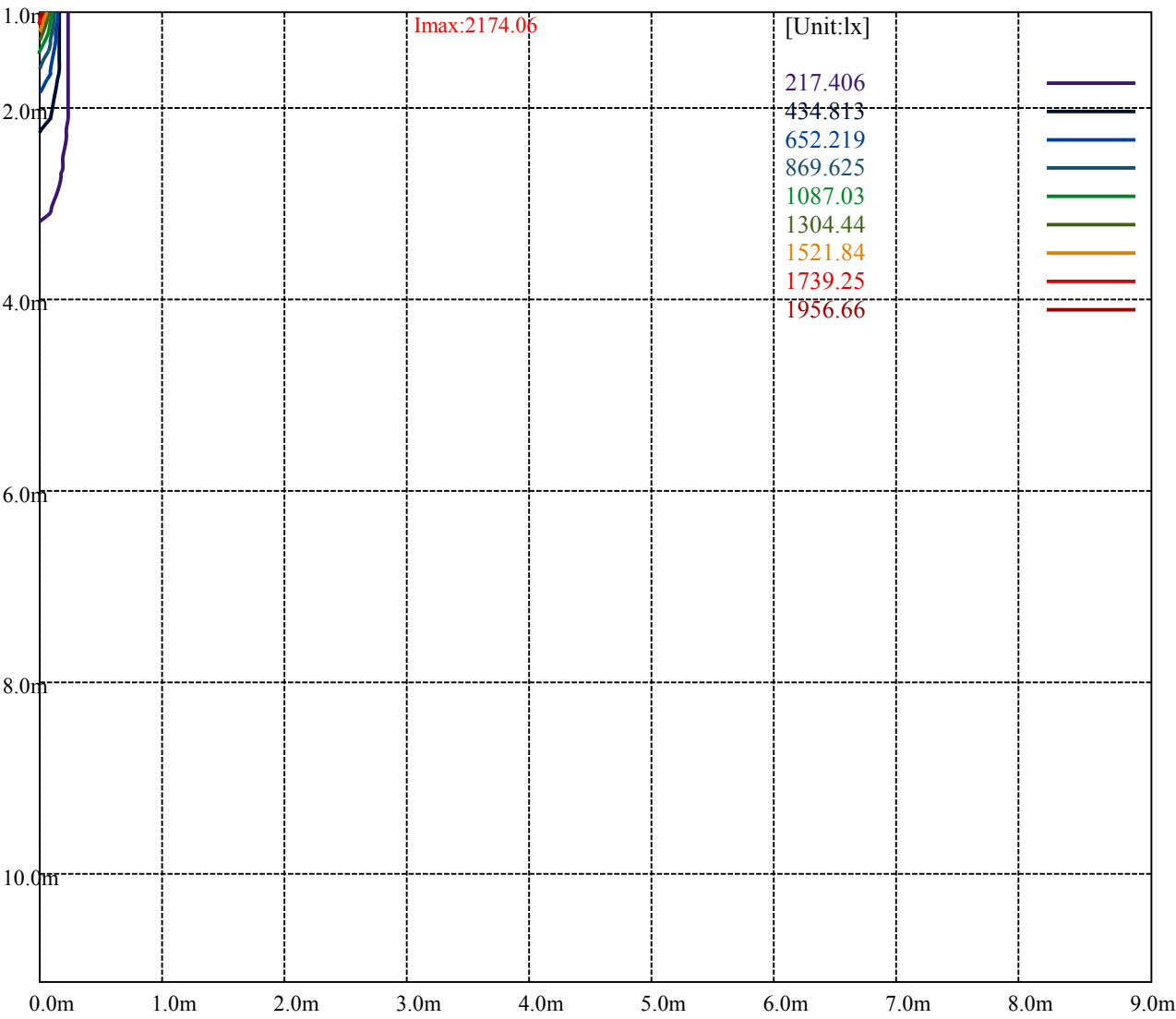
Road

Imax:2174.06

(10%Imax)	217.406	—
(20%Imax)	434.813	—
(30%Imax)	652.219	—
(40%Imax)	869.625	—
(50%Imax)	1087.03	—
(60%Imax)	1304.44	—
(70%Imax)	1521.84	—
(80%Imax)	1739.25	—
(90%Imax)	1956.66	—



(10%Emax)	54.3515	
(20%Emax)	108.703	
(30%Emax)	163.0542	
(40%Emax)	217.4057	
(50%Emax)	271.7575	
(60%Emax)	326.1075	
(70%Emax)	380.46	
(80%Emax)	434.8125	
(90%Emax)	489.1625	



Luminance Table

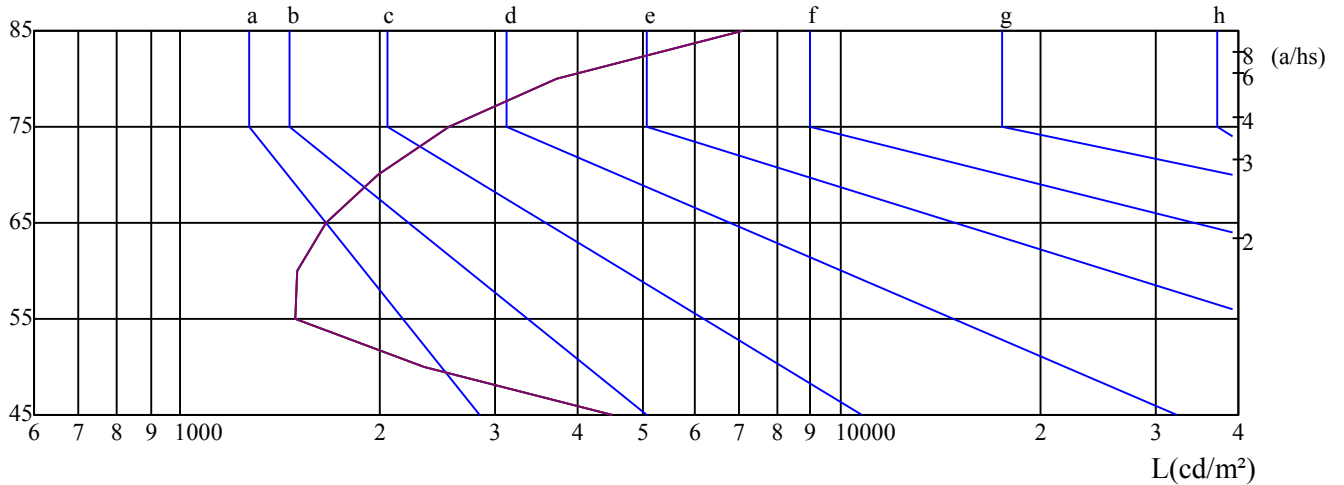
γ	45	50	55	60	65	70	75	80	85
C0	4504	2345	1494	1504	1659	1996	2554	3702	7084
C45	4504	2345	1494	1504	1659	1996	2554	3702	7084
C90	4504	2345	1494	1504	1659	1996	2554	3702	7084

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1659	1659	1659	2554	2554	2554	7084	7084	7084

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

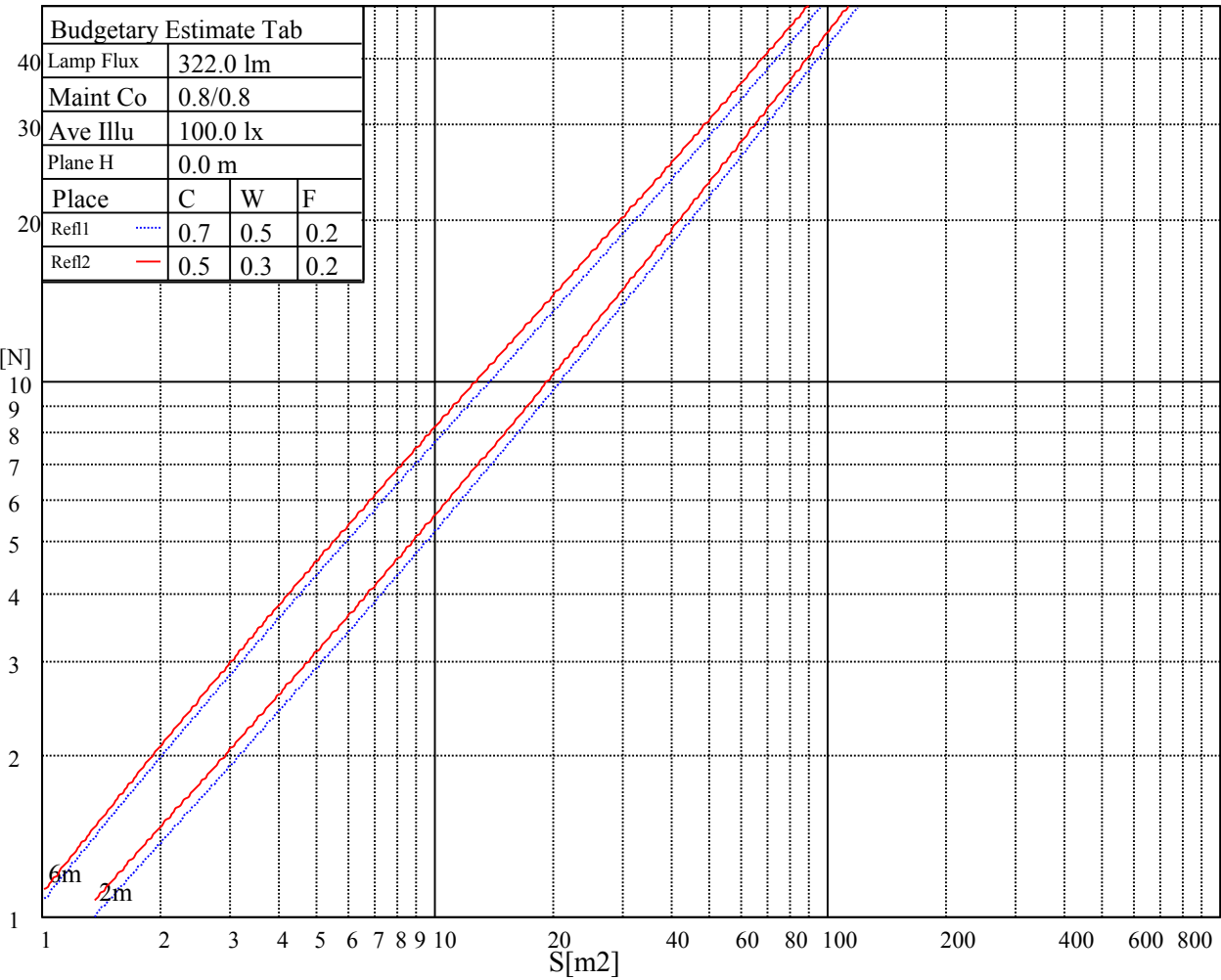
 $\gamma(^{\circ})$ 

C0 ———

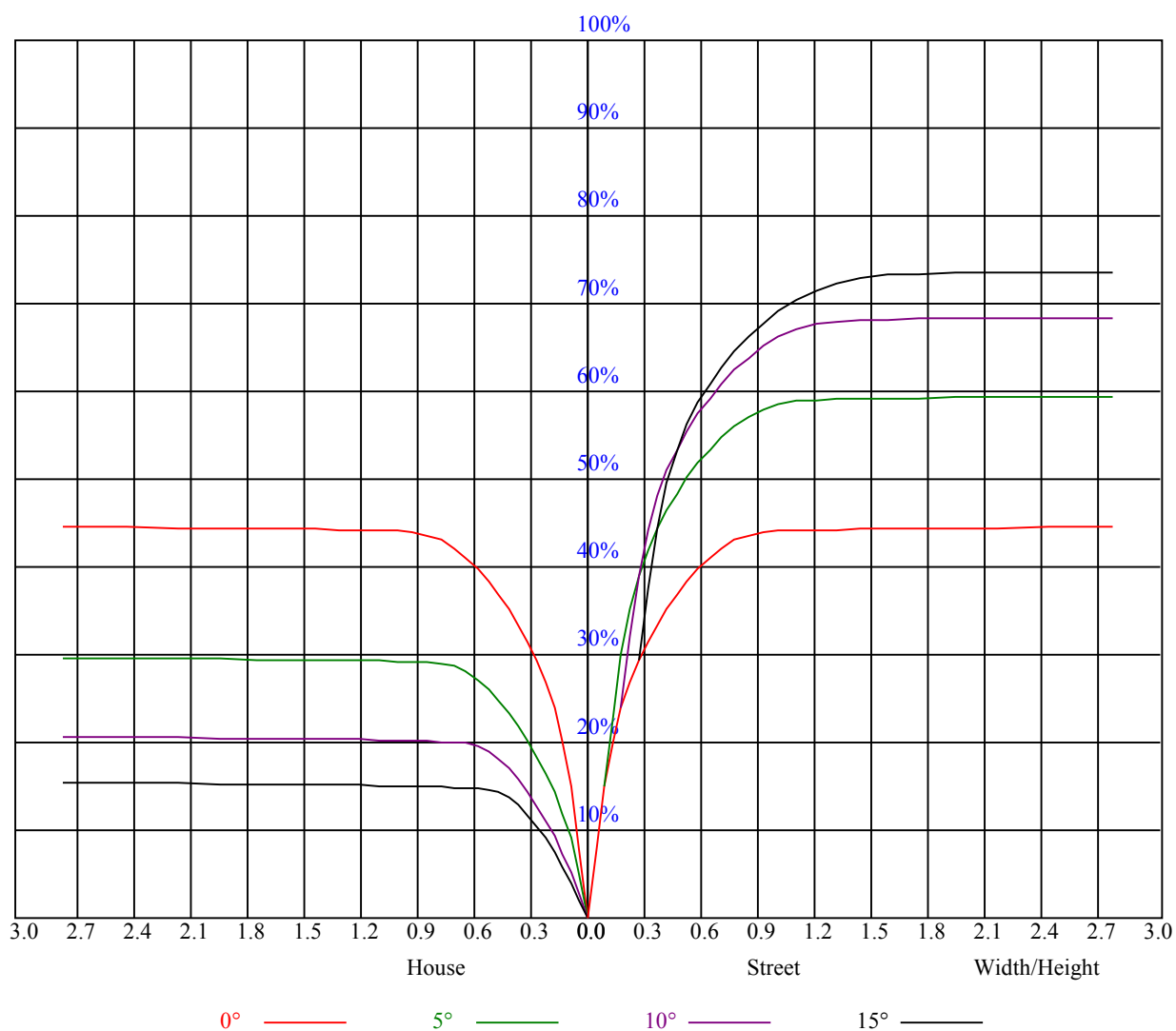
C45 ———

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	7.28	8.20	7.64	8.51	8.83	6.63	7.56	7.00	7.87	8.19
	3H	10.05	10.87	10.44	11.20	11.57	9.56	10.38	9.94	10.71	11.08
	4H	11.69	12.45	12.10	12.80	13.19	11.18	11.93	11.58	12.29	12.68
	6H	13.55	14.24	13.97	14.61	15.01	13.01	13.71	13.43	14.08	14.48
	8H	14.55	15.20	14.99	15.59	16.00	14.04	14.69	14.48	15.08	15.49
	12H	16.17	16.79	16.61	17.18	17.61	15.72	16.34	16.15	16.72	17.15
4H	2H	7.89	8.65	8.30	9.00	9.39	7.41	8.17	7.82	8.52	8.91
	3H	11.01	11.63	11.43	12.04	12.45	10.65	11.27	11.07	11.68	12.09
	4H	12.85	13.41	13.29	13.83	14.28	12.45	13.00	12.89	13.43	13.88
	6H	14.81	15.29	15.29	15.74	16.21	14.42	14.89	14.89	15.35	15.82
	8H	15.96	16.40	16.44	16.85	17.33	15.56	16.00	16.04	16.45	16.93
	12H	17.54	17.92	18.03	18.41	18.89	17.16	17.54	17.65	18.03	18.51
8H	4H	13.47	13.91	13.95	14.36	14.84	13.16	13.60	13.63	14.05	14.52
	6H	15.73	16.08	16.24	16.58	17.07	15.41	15.76	15.92	16.26	16.75
	8H	17.06	17.37	17.60	17.90	18.39	16.74	17.05	17.27	17.57	18.07
	12H	18.80	19.07	19.33	19.57	20.15	18.48	18.75	19.01	19.24	19.83
12H	4H	13.64	14.02	14.14	14.51	14.99	13.36	13.74	13.85	14.23	14.71
	6H	16.22	16.32	16.54	16.79	17.34	15.94	16.04	16.27	16.51	17.06
	8H	17.47	17.73	17.99	18.23	18.81	17.18	17.45	17.71	17.94	18.53
Variation with the observer position at spacings:											
S = 1.0H		4.1/-9.1					4.1/-9.1				
S = 1.5H		6.2/-7.2					6.2/-7.2				
S = 2.0H		7.8/-5.8					7.8/-5.8				
Standard tables:		BK1					BK1				
Uncorrected UGR		-0.7					-0.7				



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	1.07	1.07	1.07	1.04	1.04	1.04	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	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	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	0.84	0.85	0.83	0.82	0.80
3	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.83	0.81	0.79	0.82	0.79	0.78	0.76
4	0.85	0.80	0.77	0.84	0.80	0.77	0.82	0.78	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.73
5	0.81	0.76	0.73	0.80	0.76	0.73	0.78	0.75	0.72	0.77	0.74	0.71	0.75	0.73	0.71	0.70
6	0.77	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
7	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.71	0.68	0.65	0.70	0.67	0.65	0.64
8	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.66	0.63	0.69	0.65	0.63	0.68	0.65	0.62	0.61
9	0.68	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.66	0.62	0.60	0.59
10	0.66	0.61	0.59	0.65	0.61	0.59	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57



NATA 1449-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	2168.44	2184.19	2110.50	1965.38	1762.31	1470.38	1230.19	1006.88	787.50
45.0	2174.63	2154.38	2047.50	1913.06	1669.50	1411.31	1172.81	918.00	725.06
90.0	2166.19	2070.56	1928.81	1720.69	1478.81	1106.21	1022.51	767.48	603.84
135.0	2187.00	2130.75	1985.06	1806.19	1603.13	1363.50	1121.63	911.81	711.56
180.0	2168.44	2100.94	1957.50	1751.63	1537.31	1112.63	1087.88	873.56	688.78
225.0	2174.63	2131.31	2024.44	1811.81	1594.13	1364.63	1108.80	935.27	779.18
270.0	2166.19	2189.81	2144.25	1996.31	1797.19	1533.38	1271.81	1072.69	899.44
315.0	2187.00	2189.25	2079.00	1912.50	1699.31	1425.94	1109.03	960.08	766.74
360.0	2168.44	2184.19	2110.50	1965.38	1762.31	1470.38	1230.19	1006.88	787.50
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	610.88	489.38	381.38	307.13	284.63	211.22	192.54	178.20	167.46
45.0	572.63	423.56	336.38	285.75	217.91	193.95	178.03	166.73	160.09
90.0	471.99	346.78	276.24	228.38	194.34	175.39	164.64	155.25	149.01
135.0	554.06	439.31	336.38	286.31	223.65	199.63	177.19	166.11	156.88
180.0	558.34	437.34	327.43	270.73	226.41	192.60	176.34	166.05	156.60
225.0	642.26	500.06	405.11	319.73	251.38	209.53	184.16	163.97	151.20
270.0	714.94	589.50	483.75	380.25	296.44	288.00	205.43	177.24	162.17
315.0	624.66	495.39	390.15	313.99	251.94	213.36	191.36	175.50	161.04
360.0	610.88	489.38	381.38	307.13	284.63	211.22	192.54	178.20	167.46
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	159.24	152.16	144.56	139.44	135.06	131.06	126.23	122.68	119.48
45.0	153.68	147.66	142.59	138.54	133.93	129.88	125.72	121.61	117.90
90.0	142.99	137.42	132.75	127.91	123.30	119.42	115.88	111.88	109.29
135.0	147.83	141.92	137.03	131.63	127.80	124.48	120.88	118.52	116.27
180.0	150.19	144.68	139.33	135.34	131.51	126.84	123.86	120.38	116.72
225.0	140.74	132.75	127.97	125.04	122.51	120.32	118.52	116.10	114.58
270.0	151.31	141.36	133.76	128.36	122.63	118.41	114.69	111.77	109.52
315.0	152.83	145.74	139.78	134.27	129.88	125.49	121.56	118.35	115.20
360.0	159.24	152.16	144.56	139.44	135.06	131.06	126.23	122.68	119.48
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	115.71	113.01	110.48	107.83	105.47	103.50	101.42	99.56	97.31
45.0	114.36	111.04	108.34	105.69	102.77	100.74	98.83	96.86	93.38
90.0	106.48	103.61	101.19	99.17	97.31	95.63	93.54	91.41	90.39
135.0	114.24	112.50	110.76	108.62	106.20	104.12	101.98	100.07	96.41
180.0	114.58	112.22	109.24	107.10	104.91	102.04	100.29	98.49	95.06
225.0	113.57	112.11	110.81	109.29	106.93	104.57	102.43	100.07	97.93
270.0	107.55	105.30	103.33	101.81	99.68	97.99	96.58	94.67	93.26
315.0	112.84	110.42	108.34	106.48	104.74	102.54	100.86	99.06	96.41
360.0	115.71	113.01	110.48	107.83	105.47	103.50	101.42	99.56	97.31
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	94.56	92.70	88.48	78.64	66.43	50.91	35.21	22.22	13.05
45.0	91.58	89.61	84.60	75.54	61.99	48.60	33.69	20.08	10.35
90.0	89.33	84.99	78.19	65.59	50.23	39.38	27.62	15.58	11.25
135.0	94.16	92.19	88.31	76.95	63.79	49.16	30.88	18.84	9.90
180.0	92.48	90.23	83.31	71.44	58.50	42.13	28.58	15.30	6.92
225.0	94.22	91.41	85.28	73.35	59.23	46.07	32.63	17.38	8.72
270.0	91.18	88.71	85.33	79.14	66.38	54.51	42.58	27.34	17.44
315.0	93.66	91.52	85.78	74.64	62.16	46.46	32.18	17.94	8.49
360.0	94.56	92.70	88.48	78.64	66.43	50.91	35.21	22.22	13.05

NATA 1449-E

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	5.18	4.11	3.77	3.26	2.76	2.53	1.74	1.63	1.58		
45.0	5.23	4.50	4.16	3.66	3.21	2.25	2.03	1.86	1.69		
90.0	9.17	7.82	6.41	5.34	3.94	3.26	2.81	2.42	2.14		
135.0	5.18	4.33	4.05	3.60	3.26	2.59	2.08	1.91	1.74		
180.0	3.94	3.49	3.15	2.64	2.42	2.14	1.69	1.63	1.63		
225.0	4.67	3.83	3.49	3.04	2.76	2.59	1.97	1.80	1.69		
270.0	11.25	8.66	7.93	7.03	5.85	5.12	4.50	3.09	2.59		
315.0	4.73	4.05	3.71	3.32	2.98	2.87	2.08	1.97	1.80		
360.0	5.18	4.11	3.77	3.26	2.76	2.53	1.74	1.63	1.58		
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0		
0.0	1.52	1.52	1.46	1.46	1.46	1.41	1.41	1.35	1.35		
45.0	1.63	1.58	1.52	1.46	1.46	1.41	1.41	1.35	1.35		
90.0	1.91	1.86	1.74	1.63	1.63	1.58	1.58	1.52	1.52		
135.0	1.63	1.58	1.58	1.52	1.46	1.46	1.41	1.41	1.41		
180.0	1.63	1.58	1.52	1.52	1.46	1.46	1.46	1.41	1.41		
225.0	1.58	1.63	1.52	1.46	1.46	1.46	1.41	1.41	1.41		
270.0	2.19	1.91	1.74	1.69	1.63	1.58	1.58	1.52	1.46		
315.0	1.69	1.63	1.52	1.52	1.46	1.41	1.41	1.41	1.35		
360.0	1.52	1.52	1.46	1.46	1.46	1.41	1.41	1.35	1.35		
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0		
0.0	1.35	1.35	1.35	1.29	1.29	1.29	1.29	1.29	1.29		
45.0	1.35	1.35	1.29	1.29	1.29	1.29	1.29	1.29	1.29		
90.0	1.46	1.46	1.46	1.41	1.41	1.41	1.41	1.35	1.35		
135.0	1.35	1.35	1.35	1.35	1.35	1.35	1.29	1.29	1.24		
180.0	1.41	1.35	1.29	1.29	1.29	1.29	1.29	1.29	1.29		
225.0	1.35	1.35	1.29	1.29	1.29	1.29	1.29	1.29	1.29		
270.0	1.52	1.41	1.46	1.46	1.46	1.46	1.46	1.41	1.41		
315.0	1.41	1.35	1.35	1.35	1.35	1.29	1.29	1.35	1.29		
360.0	1.35	1.35	1.35	1.29	1.29	1.29	1.29	1.29	1.29		
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0		
0.0	1.29	1.29	1.24	1.24	1.24	1.18	1.24	1.24	1.18		
45.0	1.29	1.29	1.29	1.24	1.24	1.24	1.24	1.24	1.18		
90.0	1.35	1.35	1.35	1.35	1.29	1.29	1.29	1.29	1.29		
135.0	1.24	1.24	1.24	1.24	1.18	1.24	1.24	1.18	1.24		
180.0	1.29	1.24	1.29	1.24	1.24	1.24	1.24	1.18	1.24		
225.0	1.29	1.24	1.29	1.24	1.24	1.24	1.18	1.24	1.24		
270.0	1.41	1.41	1.41	1.41	1.35	1.35	1.35	1.35	1.35		
315.0	1.29	1.29	1.24	1.29	1.29	1.29	1.24	1.29	1.24		
360.0	1.29	1.29	1.24	1.24	1.24	1.18	1.24	1.24	1.18		
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0		
0.0	1.18	1.24	1.18	1.18	1.18	1.18	1.13	1.13	1.07		
45.0	1.18	1.18	1.13	1.13	1.18	1.13	1.13	1.13	1.13		
90.0	1.24	1.18	1.24	1.18	1.18	1.13	1.13	1.07	1.07		
135.0	1.18	1.18	1.18	1.18	1.18	1.18	1.18	1.13	1.13		
180.0	1.24	1.18	1.18	1.18	1.18	1.18	1.13	1.13	1.13		
225.0	1.18	1.18	1.18	1.18	1.18	1.18	1.13	1.13	1.13		
270.0	1.35	1.29	1.29	1.29	1.29	1.24	1.18	1.13	1.13		
315.0	1.24	1.18	1.24	1.18	1.18	1.13	1.07	1.13	1.07		
360.0	1.18	1.24	1.18	1.18	1.18	1.18	1.13	1.13	1.07		

Intensity data(cd)

Appendix Page: 19 Total:19

C/ γ (°)	90.0
0.0	1.13
45.0	1.07
90.0	1.07
135.0	1.13
180.0	1.13
225.0	1.13
270.0	1.07
315.0	1.13
360.0	1.13