



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: 3-2031-M
Luminaire: 92.70.127.00
Report No: NATA0100
Test No: GC2019011604
LampCAT: PHILIPS Certaflux SLM 1202
Lamp flux(lm): 967.0
Number of Lamps: 1
Length(mm): 79
Phm Type: C

Voltage(V): 36.6000
Current(A): 0.2500
Power (W): 9.1500
PF: 0.0000
Ballast type: DC
Width(mm): 79
Height(mm): 0

Photometric Results

Lumens(lm): 856.32
Efficiency(%): 88.55%
Lumens(lm)/Power(W): 93.84
Central intensity(cd): 9985.922
Maximum intensity(cd): 9985.922
Angle of maximum intensity: $C=0.0$ $\gamma=0.0$
Beam Angle(50%Imax): [C0/180]Total=11.3
[C90/270]Total=11.3
Field angle(10%Imax): [C0/180]Total=22.0
[C90/270]Total=22.0
Maximum s/h(1/2): C0_180=0.20 C90_270=0.20
Maximum s/h(1/4): C0_180=0.20 C90_270=0.20
Up flux rate of lamp(%): 0.00%
Down flux rate of lamp(%): 88.80%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.457%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	9985.922	2.389	2.389	.247%	.279%
1.0	9784.898	18.727	21.116	1.937%	2.466%
2.0	9147.234	35.007	56.123	3.620%	6.554%
3.0	8184.656	46.973	103.097	4.858%	12.040%
4.0	7101.633	54.324	157.421	5.618%	18.384%
5.0	5775.258	55.197	212.619	5.708%	24.829%
6.0	4584.586	52.552	265.17	5.435%	30.966%
7.0	3481.080	46.522	311.692	4.811%	36.399%
8.0	2602.962	39.726	351.418	4.108%	41.038%
9.0	1883.496	32.311	383.729	3.341%	44.812%
10.0	1407.558	26.803	410.533	2.772%	47.942%
11.0	990.780	20.731	431.264	2.144%	50.363%
12.0	787.380	17.952	449.216	1.856%	52.459%
13.0	645.680	15.928	465.144	1.647%	54.319%
14.0	553.816	14.692	479.836	1.519%	56.035%
15.0	499.141	14.167	494.003	1.465%	57.689%
16.0	462.277	13.973	507.976	1.445%	59.321%
17.0	436.985	14.011	521.987	1.449%	60.957%
18.0	419.119	14.203	536.189	1.469%	62.616%
19.0	406.814	14.524	550.714	1.502%	64.312%
20.0	393.792	14.770	565.483	1.527%	66.037%
21.0	382.655	15.038	580.521	1.555%	67.793%
22.0	373.268	15.334	595.855	1.586%	69.584%
23.0	362.813	15.546	611.401	1.608%	71.399%
24.0	354.488	15.811	627.212	1.635%	73.245%
25.0	346.922	16.078	643.29	1.663%	75.123%
26.0	339.757	16.333	659.623	1.689%	77.030%
27.0	332.979	16.577	676.2	1.714%	78.966%
28.0	327.080	16.839	693.039	1.741%	80.933%
29.0	320.738	17.052	710.091	1.763%	82.924%
30.0	314.859	17.264	727.355	1.785%	84.940%
31.0	308.257	17.410	744.765	1.800%	86.973%
32.0	296.269	17.217	761.982	1.780%	88.984%
33.0	276.940	16.540	778.522	1.710%	90.915%
34.0	248.562	15.242	793.764	1.576%	92.695%
35.0	216.893	13.642	807.406	1.411%	94.288%
36.0	169.692	10.938	818.344	1.131%	95.566%
37.0	119.855	7.910	826.254	.818%	96.489%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	76.064	5.135	831.39	.531%	97.089%
39.0	41.934	2.894	834.284	.299%	97.427%
40.0	21.888	1.543	835.826	.160%	97.607%
41.0	11.988	0.862	836.689	.089%	97.708%
42.0	9.485	0.696	837.385	.072%	97.789%
43.0	7.910	0.592	837.976	.061%	97.858%
44.0	6.926	0.528	838.504	.055%	97.920%
45.0	6.427	0.498	839.002	.052%	97.978%
46.0	6.117	0.483	839.485	.050%	98.035%
47.0	5.892	0.473	839.958	.049%	98.090%
48.0	5.688	0.464	840.421	.048%	98.144%
49.0	5.498	0.455	840.876	.047%	98.197%
50.0	5.302	0.445	841.321	.046%	98.249%
51.0	5.154	0.439	841.761	.045%	98.300%
52.0	4.992	0.431	842.192	.045%	98.351%
53.0	4.830	0.423	842.615	.044%	98.400%
54.0	4.711	0.418	843.033	.043%	98.449%
55.0	4.584	0.412	843.445	.043%	98.497%
56.0	4.437	0.403	843.848	.042%	98.544%
57.0	4.359	0.401	844.249	.041%	98.591%
58.0	4.254	0.396	844.645	.041%	98.637%
59.0	4.170	0.392	845.037	.041%	98.683%
60.0	4.071	0.387	845.423	.040%	98.728%
61.0	4.008	0.384	845.808	.040%	98.773%
62.0	3.923	0.380	846.188	.039%	98.817%
63.0	3.874	0.379	846.566	.039%	98.861%
64.0	3.818	0.376	846.942	.039%	98.905%
65.0	3.769	0.375	847.317	.039%	98.949%
66.0	3.720	0.373	847.69	.039%	98.993%
67.0	3.684	0.372	848.062	.038%	99.036%
68.0	3.635	0.370	848.431	.038%	99.079%
69.0	3.614	0.370	848.801	.038%	99.122%
70.0	3.586	0.370	849.171	.038%	99.166%
71.0	3.544	0.367	849.538	.038%	99.209%
72.0	3.523	0.367	849.906	.038%	99.251%
73.0	3.509	0.368	850.273	.038%	99.294%
74.0	3.495	0.368	850.642	.038%	99.337%
75.0	3.473	0.368	851.01	.038%	99.380%

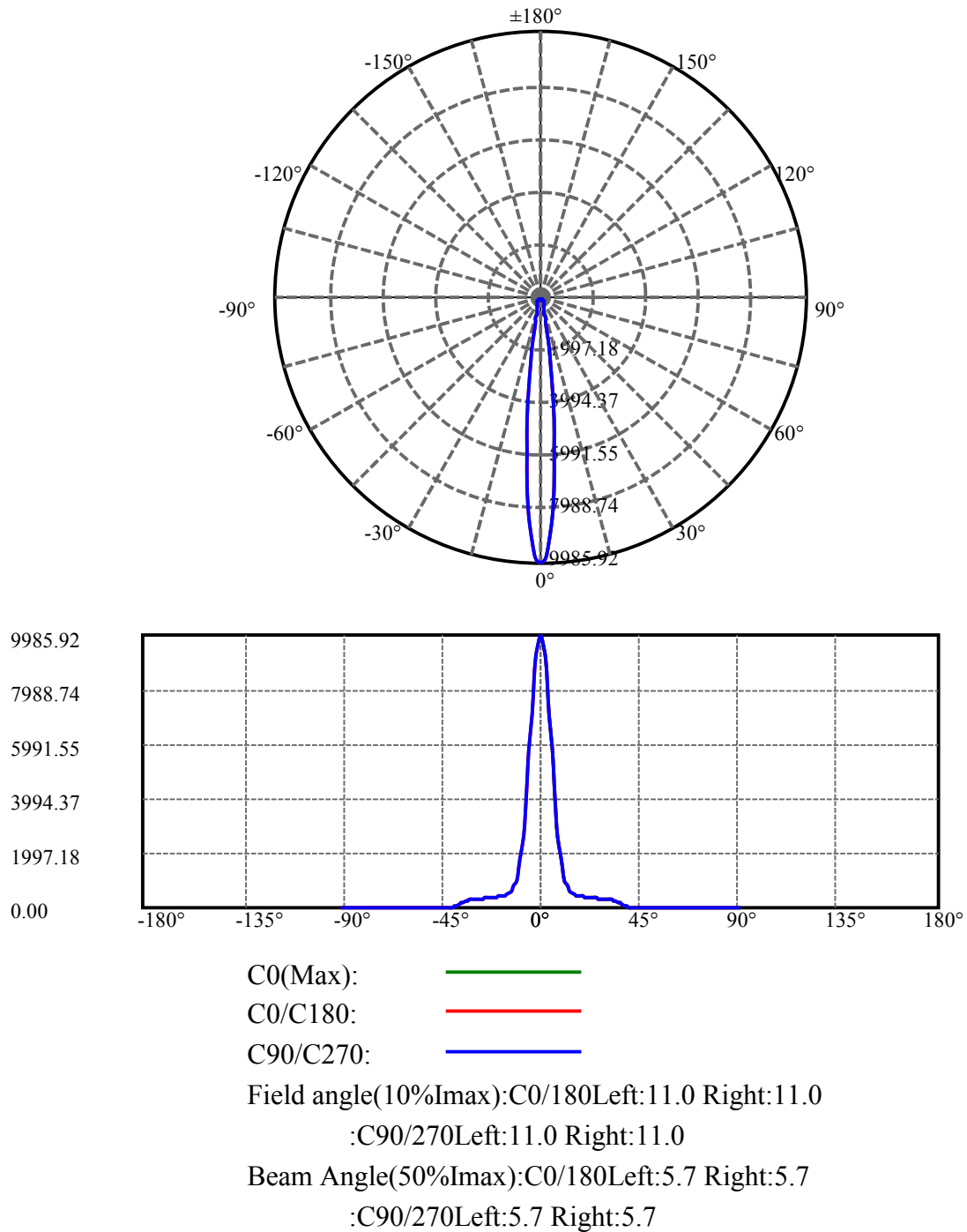
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	3.459	0.368	851.378	.038%	99.423%
77.0	3.438	0.367	851.745	.038%	99.466%
78.0	3.438	0.369	852.114	.038%	99.509%
79.0	3.417	0.368	852.482	.038%	99.552%
80.0	3.410	0.368	852.85	.038%	99.595%
81.0	3.396	0.368	853.218	.038%	99.638%
82.0	3.389	0.368	853.586	.038%	99.681%
83.0	3.375	0.367	853.953	.038%	99.724%
84.0	3.368	0.367	854.321	.038%	99.767%
85.0	3.354	0.366	854.687	.038%	99.810%
86.0	3.333	0.365	855.052	.038%	99.852%
87.0	3.305	0.362	855.414	.037%	99.895%
88.0	3.305	0.362	855.776	.037%	99.937%
89.0	3.277	0.359	856.135	.037%	99.979%
90.0	3.291	0.180	856.315	.019%	100.000%

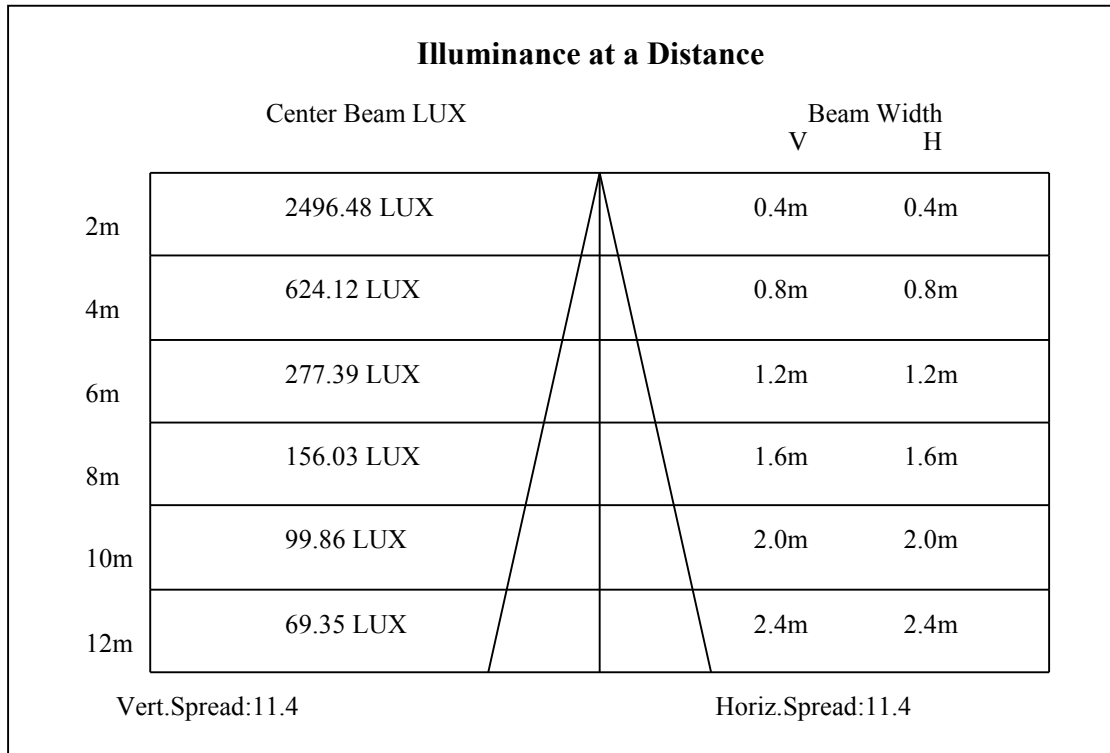
ZONAL LUMEN SUMMARY

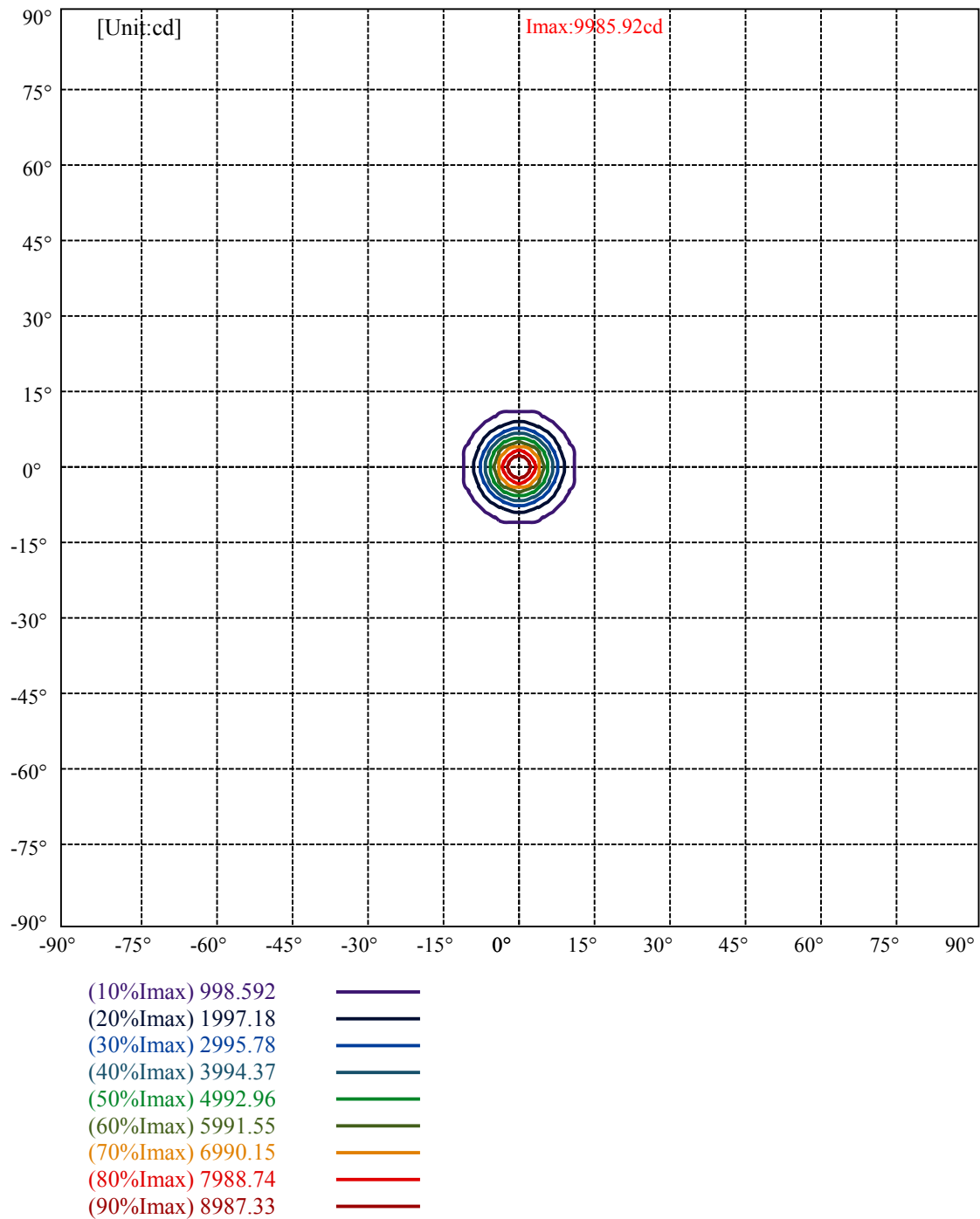
Zone	Lumens	%Lamp	%Fixt
0-30	727.35	75.22%	84.94%
0-40	835.83	86.43%	97.61%
0-60	845.42	87.43%	98.73%
0-90	856.14	88.54%	99.98%
0-120	856.14	88.54%	99.98%
0-180	856.32	88.55%	100.00%
60-90	11.10	1.15%	1.30%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-27.53	685.05	70.84%	80.00%

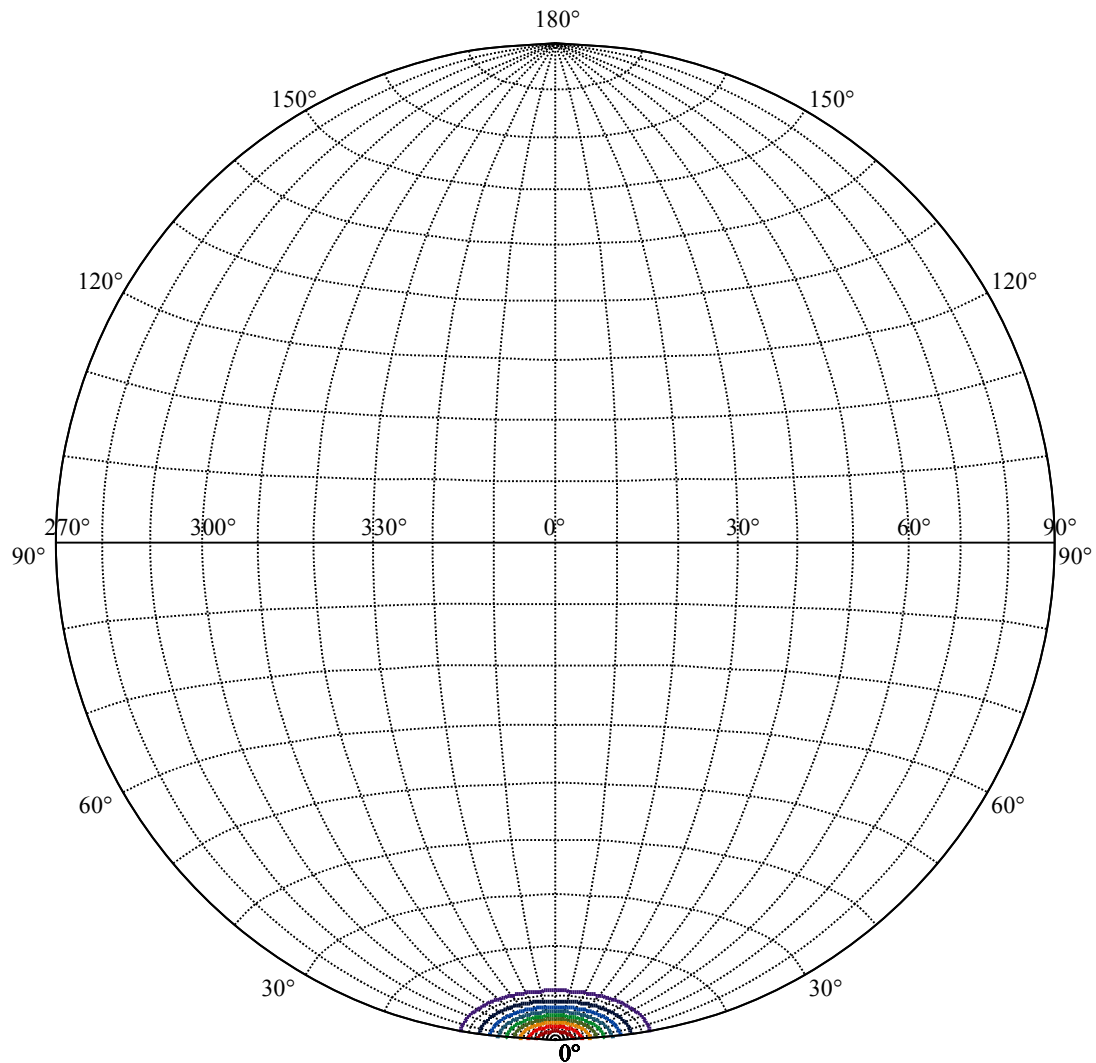
ZONAL LUMEN SUMMARY

0-10	410.53
10-20	154.95
20-30	161.87
30-40	108.47
40-50	5.50
50-60	4.10
60-70	3.75
70-80	3.68
80-90	3.28
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









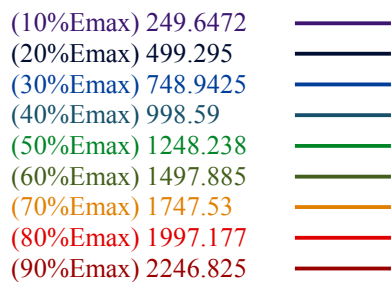
House

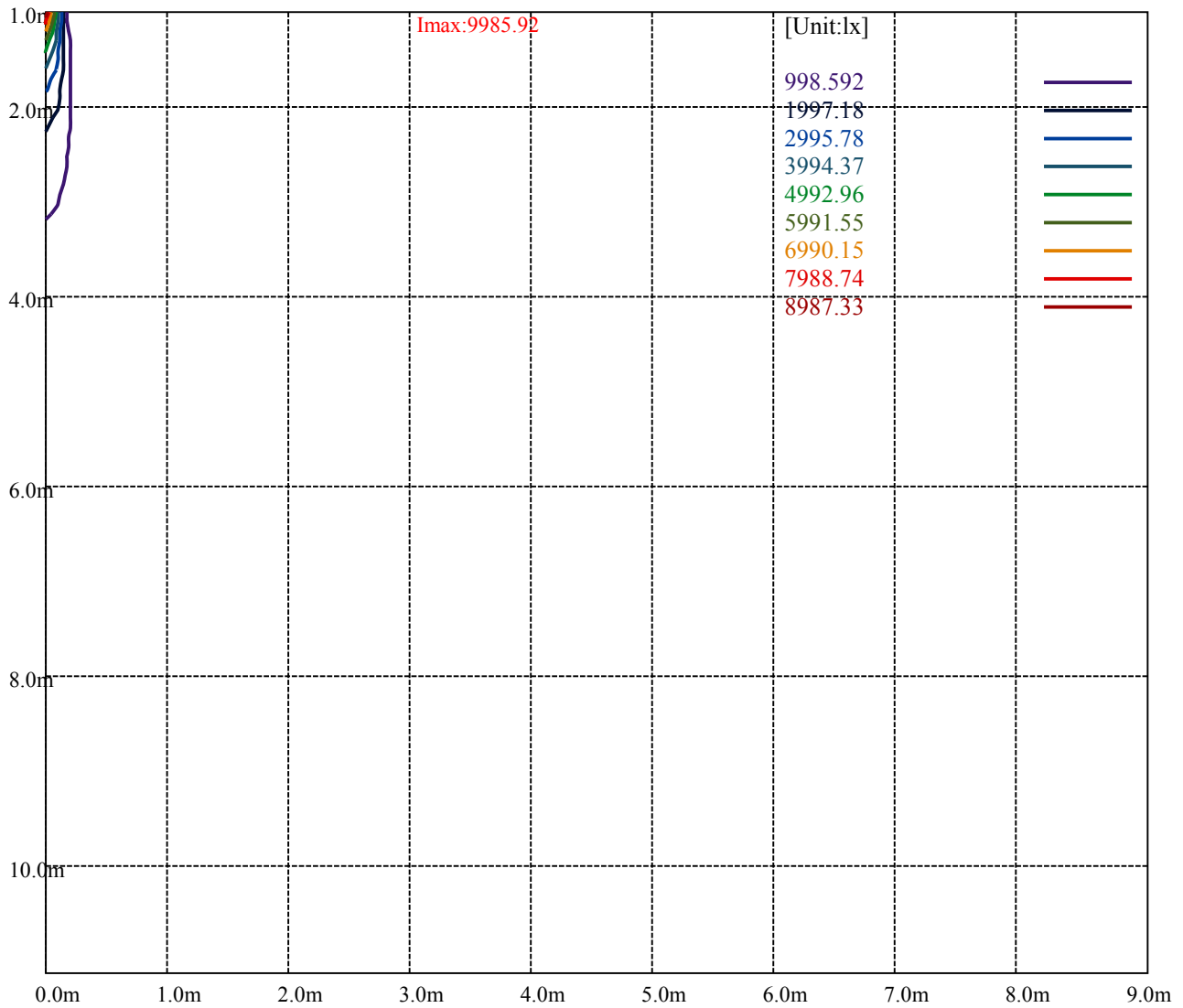
[Unit:cd]

Road

Imax:9985.92

(10%Imax)	998.592	—
(20%Imax)	1997.18	—
(30%Imax)	2995.78	—
(40%Imax)	3994.37	—
(50%Imax)	4992.96	—
(60%Imax)	5991.55	—
(70%Imax)	6990.15	—
(80%Imax)	7988.74	—
(90%Imax)	8987.33	—





Luminance Table

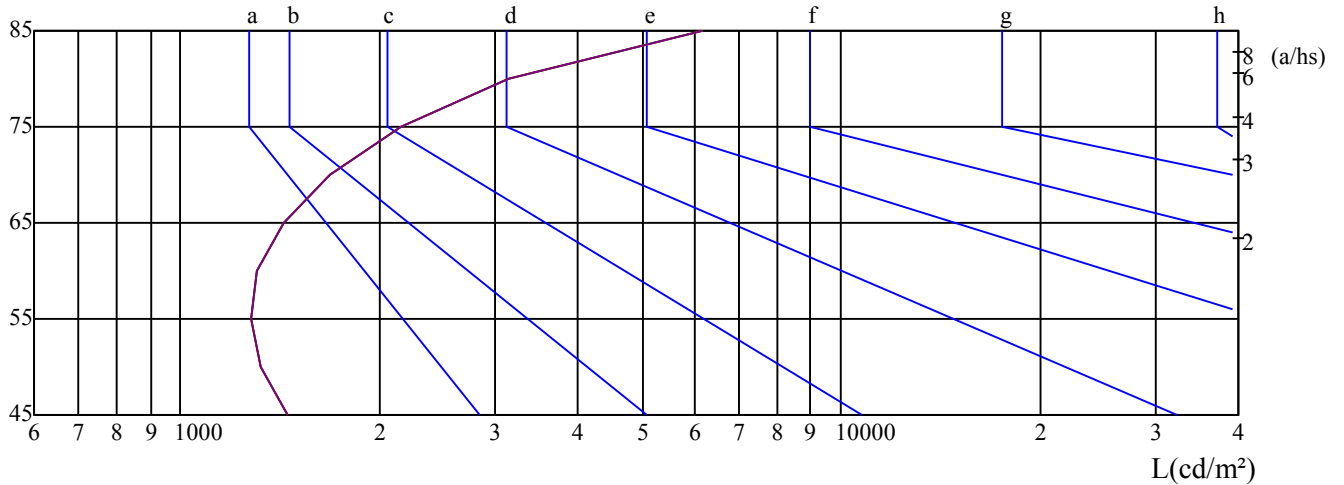
γ	45	50	55	60	65	70	75	80	85
C0	1456	1322	1281	1305	1429	1680	2150	3147	6166
C45	1456	1322	1281	1305	1429	1680	2150	3147	6166
C90	1456	1322	1281	1305	1429	1680	2150	3147	6166

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
1429	1429	1429	2150	2150	2150	6166	6166	6166

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

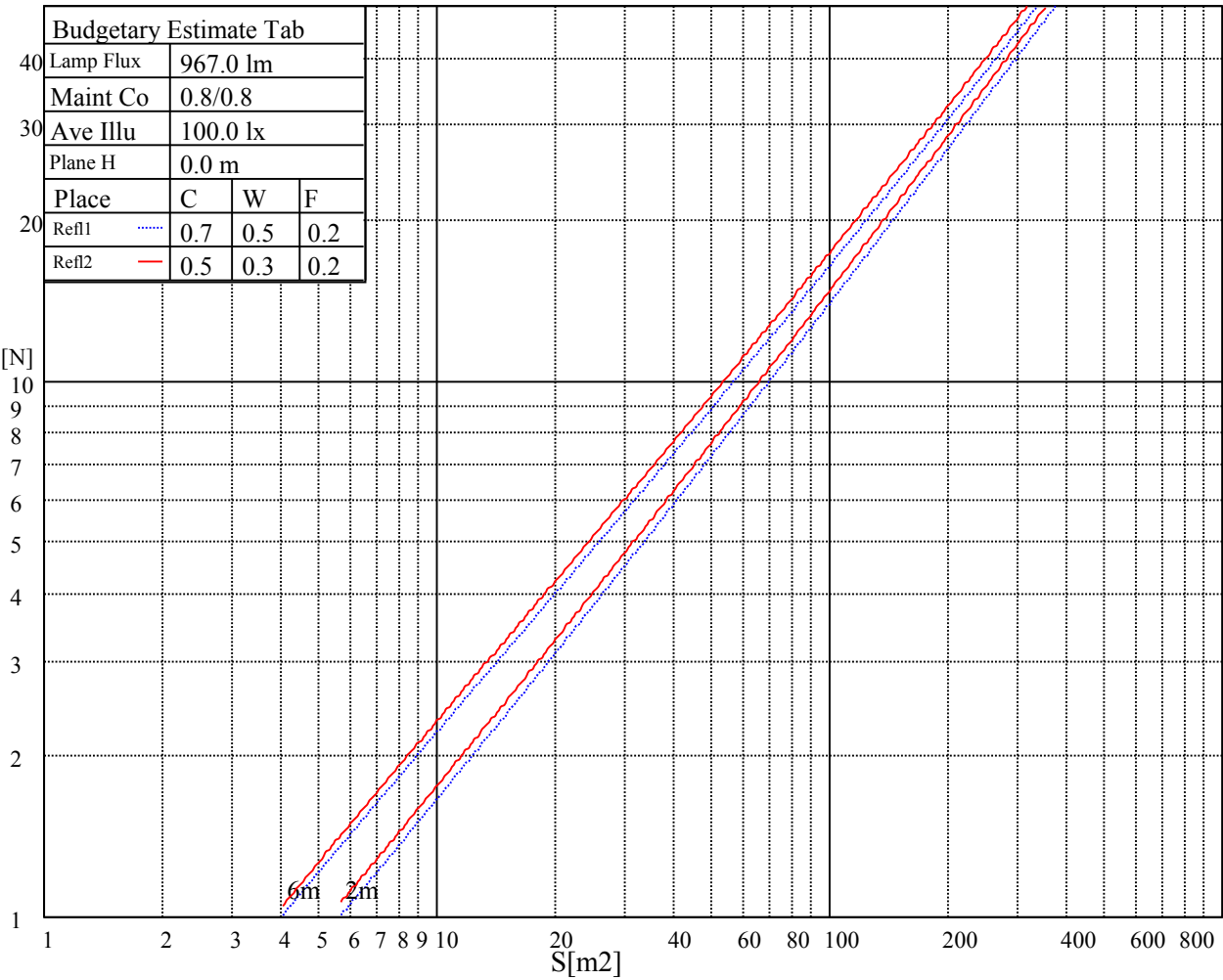
 $\gamma(^{\circ})$ 

C0 ———

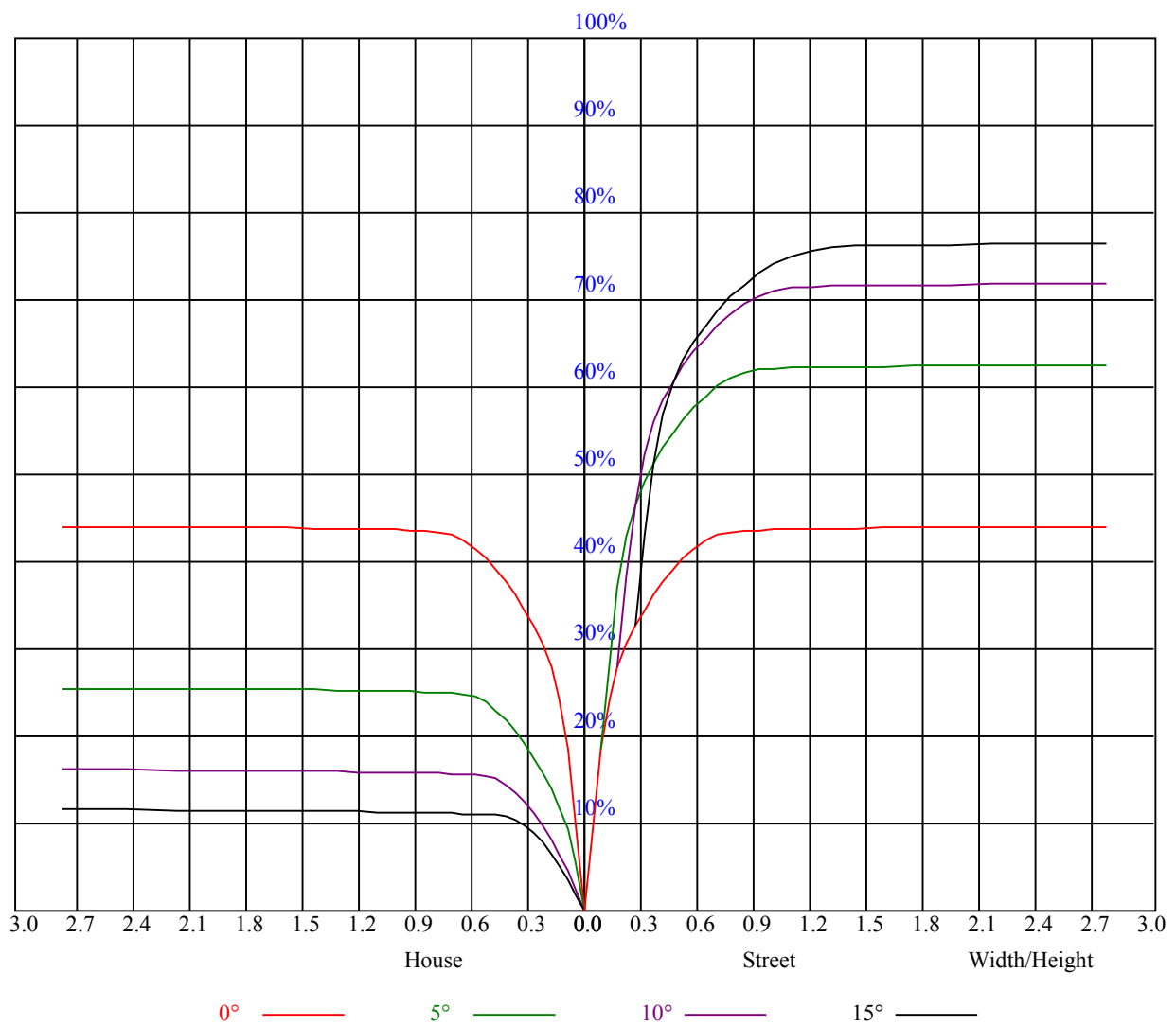
C45 ———

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	2.42	3.33	2.79	3.64	3.96	2.42	3.33	2.78	3.64	3.95
	3H	5.20	6.00	5.58	6.33	6.70	5.21	6.01	5.59	6.34	6.71
	4H	6.78	7.52	7.19	7.87	8.26	6.79	7.53	7.19	7.88	8.27
	6H	8.62	9.29	9.04	9.67	10.07	8.60	9.28	9.02	9.66	10.05
	8H	9.65	10.29	10.09	10.68	11.09	9.63	10.26	10.07	10.65	11.07
	12H	11.35	11.96	11.79	12.34	12.77	11.32	11.92	11.75	12.30	12.74
4H	2H	3.16	3.90	3.57	4.26	4.65	3.16	3.90	3.57	4.26	4.65
	3H	6.24	6.85	6.66	7.26	7.66	6.25	6.86	6.67	7.27	7.68
	4H	8.01	8.56	8.45	8.98	9.43	8.02	8.56	8.46	8.99	9.44
	6H	10.02	10.48	10.49	10.93	11.41	10.02	10.48	10.49	10.94	11.41
	8H	11.17	11.60	11.65	12.05	12.53	11.15	11.59	11.63	12.04	12.51
	12H	12.78	13.15	13.28	13.64	14.12	12.76	13.13	13.25	13.62	14.10
8H	4H	8.69	9.12	9.17	9.57	10.05	8.70	9.13	9.17	9.58	10.05
	6H	10.99	11.32	11.50	11.83	12.32	10.98	11.32	11.49	11.82	12.31
	8H	12.33	12.63	12.86	13.15	13.65	12.31	12.61	12.84	13.13	13.63
	12H	14.10	14.35	14.62	14.85	15.43	14.07	14.33	14.59	14.83	15.41
12H	4H	8.88	9.25	9.37	9.74	10.22	8.89	9.26	9.38	9.75	10.23
	6H	11.48	11.59	11.83	12.06	12.61	11.48	11.59	11.82	12.06	12.61
	8H	12.76	13.02	13.29	13.52	14.10	12.75	13.00	13.27	13.50	14.08
Variation with the observer position at spacings:											
S = 1.0H		5.7/-7.9					5.7/-7.9				
S = 1.5H		8.0/-5.9					8.0/-5.9				
S = 2.0H		9.4/-4.5					9.4/-4.5				
Standard tables:		BK2					BK2				
Uncorrected UGR		-2.7					-2.7				



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	1.06	1.06	1.06	1.03	1.03	1.03	0.99	0.99	0.99	0.94	0.94	0.94	0.91	0.91	0.91	0.89
1	1.00	0.98	0.96	0.98	0.96	0.94	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87	0.86	0.85
2	0.95	0.92	0.89	0.93	0.90	0.88	0.90	0.88	0.86	0.88	0.86	0.85	0.85	0.84	0.83	0.81
3	0.90	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.82	0.85	0.83	0.81	0.83	0.81	0.80	0.78
4	0.87	0.83	0.80	0.86	0.82	0.80	0.84	0.81	0.79	0.82	0.80	0.78	0.81	0.79	0.77	0.76
5	0.83	0.79	0.77	0.82	0.79	0.76	0.81	0.78	0.76	0.80	0.77	0.75	0.78	0.76	0.74	0.73
6	0.80	0.76	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.75	0.72	0.76	0.74	0.72	0.71
7	0.78	0.74	0.71	0.77	0.74	0.71	0.76	0.73	0.71	0.75	0.72	0.70	0.74	0.72	0.70	0.69
8	0.75	0.71	0.69	0.75	0.71	0.69	0.74	0.71	0.68	0.73	0.70	0.68	0.73	0.70	0.68	0.67
9	0.73	0.69	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.71	0.68	0.66	0.65
10	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.65	0.69	0.67	0.65	0.64



NATA 3-2031-M

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	9480.94	10636.31	11200.50	11193.75	10468.13	9180.00	7824.38	6311.25	5062.50
45.0	10324.69	10436.06	9855.00	8928.56	7755.19	6233.06	5020.31	3901.50	2768.63
90.0	9907.31	9025.88	7720.88	6329.81	5128.88	3866.06	2847.94	1911.38	1120.78
135.0	10230.75	8931.38	7445.25	6120.00	4769.44	3521.25	2554.31	1717.88	1238.63
180.0	9480.94	8208.56	6863.63	5288.63	4141.69	3097.13	2116.13	1088.83	1053.79
225.0	10324.69	9720.00	8588.81	7228.69	5990.06	4673.25	3449.25	2511.56	1689.75
270.0	9907.31	10351.13	10278.00	9613.69	8713.69	7034.63	5803.31	4773.38	3458.81
315.0	10230.75	10969.88	11225.81	10774.13	9846.00	8596.69	7061.06	5632.88	4430.81
360.0	9480.94	10636.31	11200.50	11193.75	10468.13	9180.00	7824.38	6311.25	5062.50
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	3751.88	2851.88	1828.69	1285.88	929.81	739.13	630.56	547.31	492.19
45.0	1864.69	1323.00	969.75	776.25	635.06	554.06	493.31	455.63	433.13
90.0	985.56	776.14	654.02	560.59	503.61	461.81	436.56	420.41	408.09
135.0	930.94	749.25	638.44	560.25	493.31	460.69	440.44	424.13	414.00
180.0	802.63	676.58	587.87	514.46	479.03	447.69	427.16	413.72	402.30
225.0	1108.41	929.25	744.36	632.31	555.92	491.57	460.52	438.81	421.03
270.0	2418.75	1776.94	1180.13	915.19	741.94	603.00	533.25	486.56	453.38
315.0	3205.13	2177.44	1323.00	1054.13	826.76	672.58	571.33	511.65	471.77
360.0	3751.88	2851.88	1828.69	1285.88	929.81	739.13	630.56	547.31	492.19
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	461.25	441.00	420.19	407.25	397.13	382.50	372.38	363.94	352.69
45.0	415.69	403.88	390.94	379.13	369.00	358.31	349.31	342.56	336.38
90.0	395.04	385.37	375.58	363.88	355.44	348.19	340.93	334.46	329.01
135.0	404.44	396.00	384.19	375.19	365.63	354.38	347.63	342.00	335.81
180.0	389.25	379.97	371.03	360.73	353.87	347.57	341.61	334.69	329.06
225.0	410.12	399.71	386.83	377.38	368.33	358.09	351.62	344.59	337.89
270.0	437.06	425.81	412.31	402.19	390.94	377.44	367.31	357.75	349.31
315.0	440.10	422.78	409.28	395.49	385.82	376.03	365.12	355.39	347.91
360.0	461.25	441.00	420.19	407.25	397.13	382.50	372.38	363.94	352.69
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	344.81	339.19	332.44	326.81	320.63	312.75	308.25	304.31	297.56
45.0	329.06	323.44	318.94	312.19	306.00	301.50	296.44	288.56	284.06
90.0	323.21	316.91	310.16	304.43	299.36	293.46	268.43	223.43	169.88
135.0	328.50	321.19	315.00	309.38	302.63	285.75	232.99	171.90	109.18
180.0	322.14	316.18	310.67	304.82	294.58	253.07	200.87	136.24	80.72
225.0	333.51	328.44	320.01	315.79	311.23	304.09	298.69	264.71	208.69
270.0	342.00	336.38	329.63	323.44	316.13	310.50	306.00	300.38	291.38
315.0	340.59	334.91	329.06	322.03	315.51	309.04	303.86	298.97	293.68
360.0	344.81	339.19	332.44	326.81	320.63	312.75	308.25	304.31	297.56
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	286.31	237.32	167.12	108.06	57.26	21.99	14.29	11.42	8.61
45.0	195.02	139.05	82.80	34.48	15.36	12.66	8.83	7.48	6.58
90.0	102.60	54.45	22.05	13.33	10.01	7.65	7.09	6.30	6.08
135.0	58.16	23.57	12.94	10.13	7.48	6.86	6.58	6.36	6.13
180.0	33.02	14.23	11.93	8.78	7.48	6.75	6.47	6.19	5.96
225.0	144.56	89.89	35.38	14.74	12.32	9.06	7.59	6.69	6.30
270.0	284.06	197.94	128.98	73.13	30.99	14.79	11.93	9.00	7.43
315.0	253.80	202.39	147.32	72.84	34.20	16.14	13.11	9.84	8.33
360.0	286.31	237.32	167.12	108.06	57.26	21.99	14.29	11.42	8.61

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	7.14	6.75	6.47	6.30	6.02	5.79	5.63	5.40	5.23
45.0	6.30	6.08	5.91	5.68	5.46	5.29	5.18	5.01	4.84
90.0	5.85	5.68	5.51	5.29	5.18	5.01	4.84	4.73	4.61
135.0	5.91	5.74	5.51	5.34	5.18	5.01	4.89	4.73	4.61
180.0	5.79	5.57	5.40	5.23	5.06	4.89	4.78	4.61	4.44
225.0	6.13	5.91	5.63	5.40	5.29	5.06	4.95	4.84	4.67
270.0	6.81	6.58	6.30	6.13	5.91	5.68	5.46	5.29	5.12
315.0	7.48	6.64	6.41	6.13	5.91	5.68	5.51	5.34	5.12
360.0	7.14	6.75	6.47	6.30	6.02	5.79	5.63	5.40	5.23
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	5.06	4.95	4.73	4.67	4.56	4.44	4.28	4.22	4.11
45.0	4.73	4.61	4.44	4.39	4.28	4.22	4.11	4.05	3.99
90.0	4.50	4.33	4.28	4.16	4.11	4.05	3.99	3.94	3.83
135.0	4.44	4.33	4.28	4.22	4.11	4.05	3.94	3.88	3.83
180.0	4.39	4.28	4.16	4.11	3.99	3.94	3.88	3.83	3.77
225.0	4.56	4.39	4.28	4.16	4.11	3.99	3.94	3.88	3.83
270.0	5.06	4.89	4.67	4.56	4.44	4.33	4.22	4.11	3.99
315.0	4.95	4.89	4.67	4.61	4.44	4.33	4.22	4.16	4.05
360.0	5.06	4.95	4.73	4.67	4.56	4.44	4.28	4.22	4.11
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.05	3.99	3.94	3.88	3.83	3.77	3.71	3.66	3.66
45.0	3.94	3.88	3.83	3.77	3.71	3.66	3.66	3.66	3.54
90.0	3.83	3.77	3.71	3.66	3.66	3.60	3.60	3.54	3.54
135.0	3.77	3.71	3.66	3.60	3.60	3.60	3.54	3.54	3.49
180.0	3.71	3.66	3.66	3.60	3.60	3.54	3.54	3.54	3.49
225.0	3.77	3.71	3.66	3.66	3.60	3.54	3.54	3.54	3.49
270.0	3.94	3.88	3.83	3.77	3.71	3.66	3.66	3.60	3.54
315.0	3.99	3.94	3.88	3.83	3.77	3.71	3.66	3.60	3.60
360.0	4.05	3.99	3.94	3.88	3.83	3.77	3.71	3.66	3.66
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.60	3.60	3.60	3.54	3.54	3.49	3.49	3.43	3.43
45.0	3.54	3.54	3.54	3.49	3.49	3.43	3.43	3.43	3.43
90.0	3.49	3.49	3.43	3.49	3.49	3.49	3.43	3.43	3.43
135.0	3.49	3.49	3.43	3.43	3.43	3.43	3.43	3.43	3.38
180.0	3.43	3.43	3.43	3.43	3.38	3.38	3.43	3.38	3.38
225.0	3.49	3.43	3.43	3.38	3.43	3.38	3.43	3.38	3.38
270.0	3.54	3.54	3.54	3.49	3.43	3.43	3.43	3.43	3.43
315.0	3.60	3.54	3.54	3.54	3.49	3.49	3.43	3.43	3.43
360.0	3.60	3.60	3.60	3.54	3.54	3.49	3.49	3.43	3.43
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.43	3.43	3.43	3.38	3.38	3.38	3.38	3.32	3.32
45.0	3.38	3.38	3.38	3.38	3.32	3.38	3.32	3.32	3.26
90.0	3.43	3.43	3.43	3.38	3.38	3.26	3.26	3.26	3.26
135.0	3.38	3.38	3.38	3.38	3.38	3.32	3.26	3.26	3.26
180.0	3.38	3.38	3.32	3.32	3.32	3.32	3.32	3.32	3.26
225.0	3.38	3.38	3.32	3.38	3.32	3.32	3.26	3.32	3.26
270.0	3.43	3.38	3.38	3.38	3.38	3.38	3.32	3.32	3.26
315.0	3.38	3.38	3.38	3.38	3.38	3.32	3.32	3.32	3.32
360.0	3.43	3.43	3.43	3.38	3.38	3.38	3.38	3.32	3.32

Intensity data(cd)

Appendix Page: 19 Total:19

C/ $\gamma(^{\circ})$	90.0
0.0	3.32
45.0	3.26
90.0	3.26
135.0	3.32
180.0	3.32
225.0	3.26
270.0	3.26
315.0	3.32
360.0	3.32