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Nata

LumCAT: 1426-N

Luminaire: 92.70.064.00+92.70.147.00

Report No: NATA0100

Test No: GC2018072808

LampCAT: BRIDGELUX V6HD

Lamp flux(lm): 1137.0

Number of Lamps: 1

Length(mm): 46

Phm Type: C

Voltage(V): 36.0000

Current(A): 0.3000

Power (W): 10.8000

PF: 0.0000

Ballast type: DC

Width(mm): 46

Height(mm): 0

Photometric Results

Lumens(lm): 907.83

Efficiency(%): 79.84%

Lumens(lm)/Power(W): 84.56

Central intensity(cd): 5812.579

Maximum intensity(cd): 5812.579

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=15.7

[C90/270]Total=15.7

Field angle(10%Imax): [C0/180]Total=35.1

[C90/270]Total=35.1

Maximum s/h(1/2): C0_180=0.27 C90_270=0.27

Maximum s/h(1/4): C0_180=0.28 C90_270=0.28

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 80.32%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 96.063%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5812.579	5.562	5.562	.489%	.613%
2.0	5556.636	42.530	48.092	3.741%	5.298%
4.0	4825.900	73.829	121.922	6.493%	13.430%
6.0	3817.198	87.507	209.429	7.696%	23.069%
8.0	2833.202	86.476	295.905	7.606%	32.595%
10.0	1964.894	74.830	370.735	6.581%	40.838%
12.0	1299.476	59.253	429.989	5.211%	47.365%
14.0	912.443	48.411	478.4	4.258%	52.697%
16.0	684.785	41.396	519.796	3.641%	57.257%
18.0	551.314	37.363	557.159	3.286%	61.373%
20.0	459.625	34.476	591.635	3.032%	65.171%
22.0	388.967	31.956	623.591	2.811%	68.691%
24.0	327.455	29.210	652.801	2.569%	71.908%
26.0	278.186	26.745	679.546	2.352%	74.854%
28.0	233.350	24.026	703.572	2.113%	77.501%
30.0	196.421	21.539	725.111	1.894%	79.873%
32.0	165.376	19.220	744.331	1.690%	81.990%
34.0	141.419	17.343	761.674	1.525%	83.901%
36.0	120.271	15.504	777.178	1.364%	85.609%
38.0	104.421	14.099	791.278	1.240%	87.162%
40.0	91.401	12.885	804.162	1.133%	88.581%
42.0	79.075	11.604	815.767	1.021%	89.859%
44.0	69.467	10.583	826.35	.931%	91.025%
46.0	61.670	9.729	836.079	.856%	92.097%
48.0	54.175	8.830	844.909	.777%	93.069%
50.0	46.674	7.841	852.75	.690%	93.933%
52.0	39.448	6.817	859.567	.600%	94.684%
54.0	32.167	5.707	865.275	.502%	95.313%
56.0	26.104	4.746	870.021	.417%	95.836%
58.0	21.093	3.923	873.944	.345%	96.268%
60.0	17.666	3.355	877.299	.295%	96.637%
62.0	15.347	2.972	880.271	.261%	96.965%
64.0	13.496	2.660	882.931	.234%	97.258%
66.0	12.257	2.456	885.387	.216%	97.528%
68.0	11.589	2.357	887.744	.207%	97.788%
70.0	11.121	2.292	890.036	.202%	98.040%
72.0	10.743	2.241	892.276	.197%	98.287%
74.0	10.440	2.201	894.477	.194%	98.530%

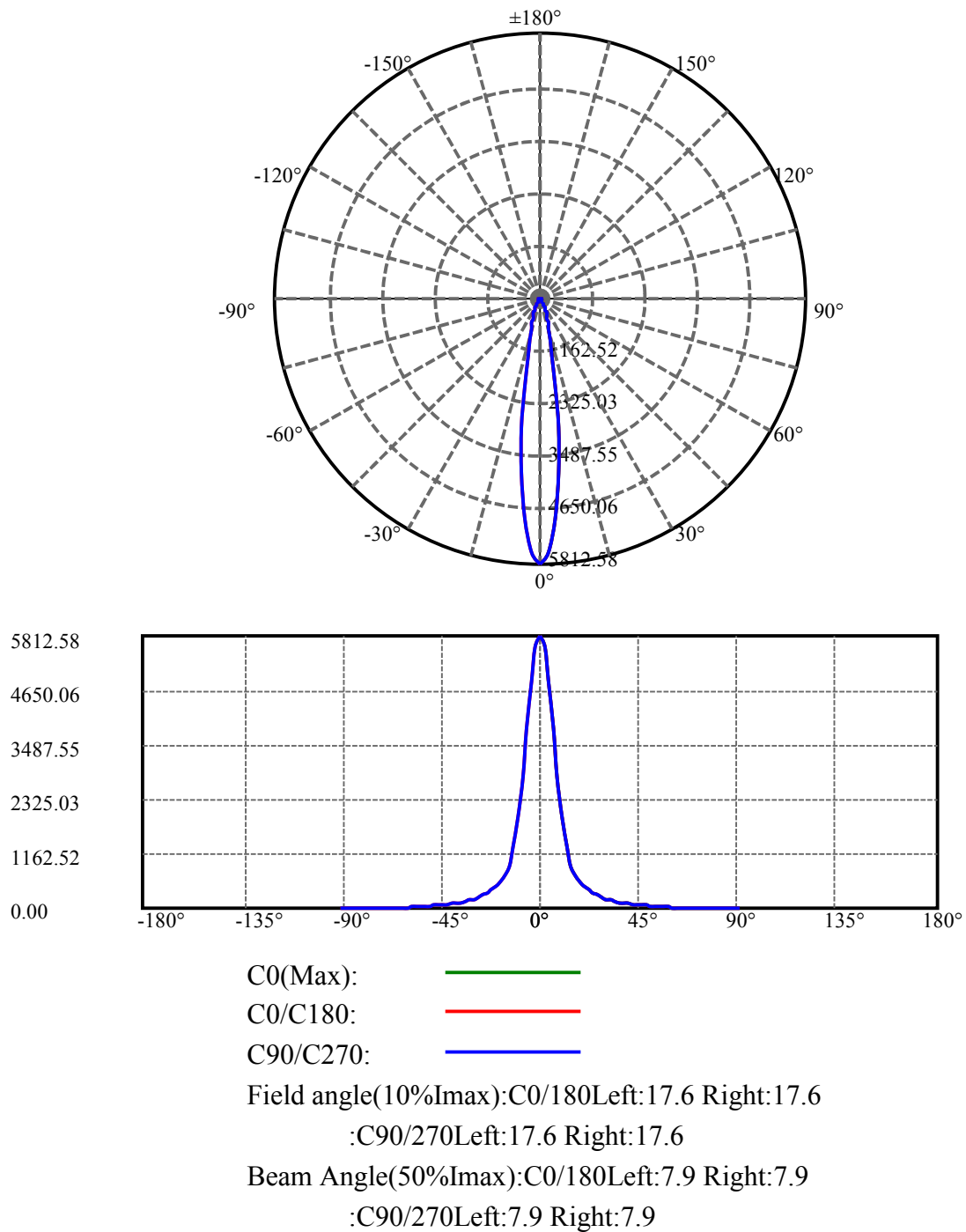
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	10.185	2.167	896.645	.191%	98.768%
78.0	9.890	2.122	898.766	.187%	99.002%
80.0	9.704	2.096	900.862	.184%	99.233%
82.0	9.545	2.073	902.935	.182%	99.461%
84.0	8.981	1.959	904.894	.172%	99.677%
86.0	7.116	1.557	906.451	.137%	99.849%
88.0	4.315	0.946	907.397	.083%	99.953%
90.0	3.916	0.429	907.826	.038%	100.000%

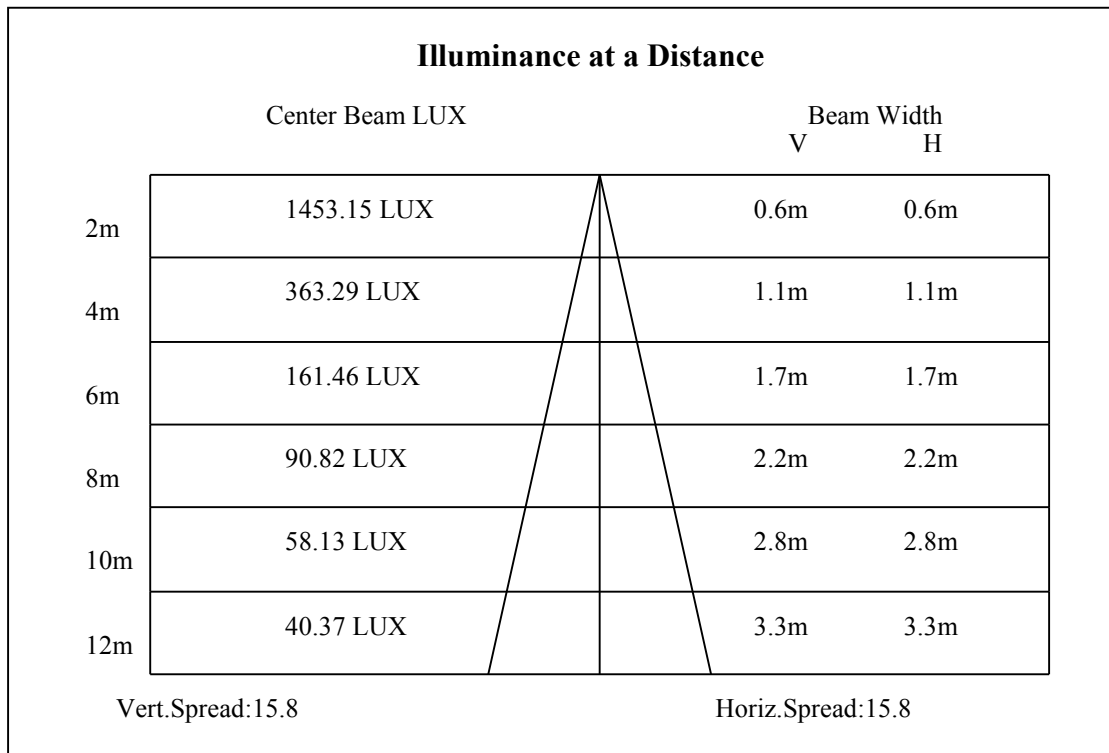
ZONAL LUMEN SUMMARY

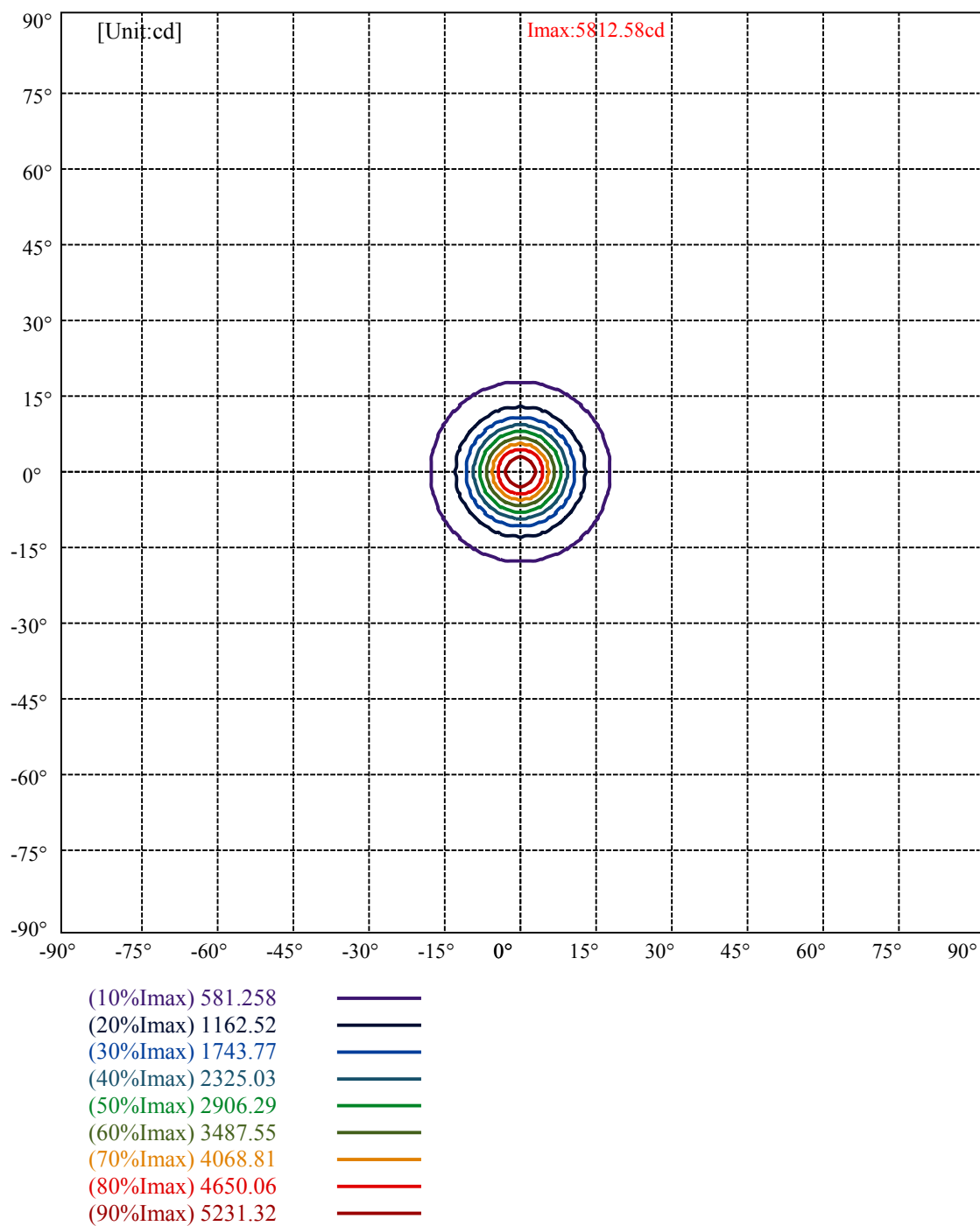
Zone	Lumens	%Lamp	%Fixt
0-30	725.11	63.77%	79.87%
0-40	804.16	70.73%	88.58%
0-60	877.30	77.16%	96.64%
0-90	907.40	79.81%	99.95%
0-120	907.40	79.81%	99.95%
0-180	907.83	79.84%	100.00%
60-90	33.45	2.94%	3.68%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-30.12	726.26	63.88%	80.00%

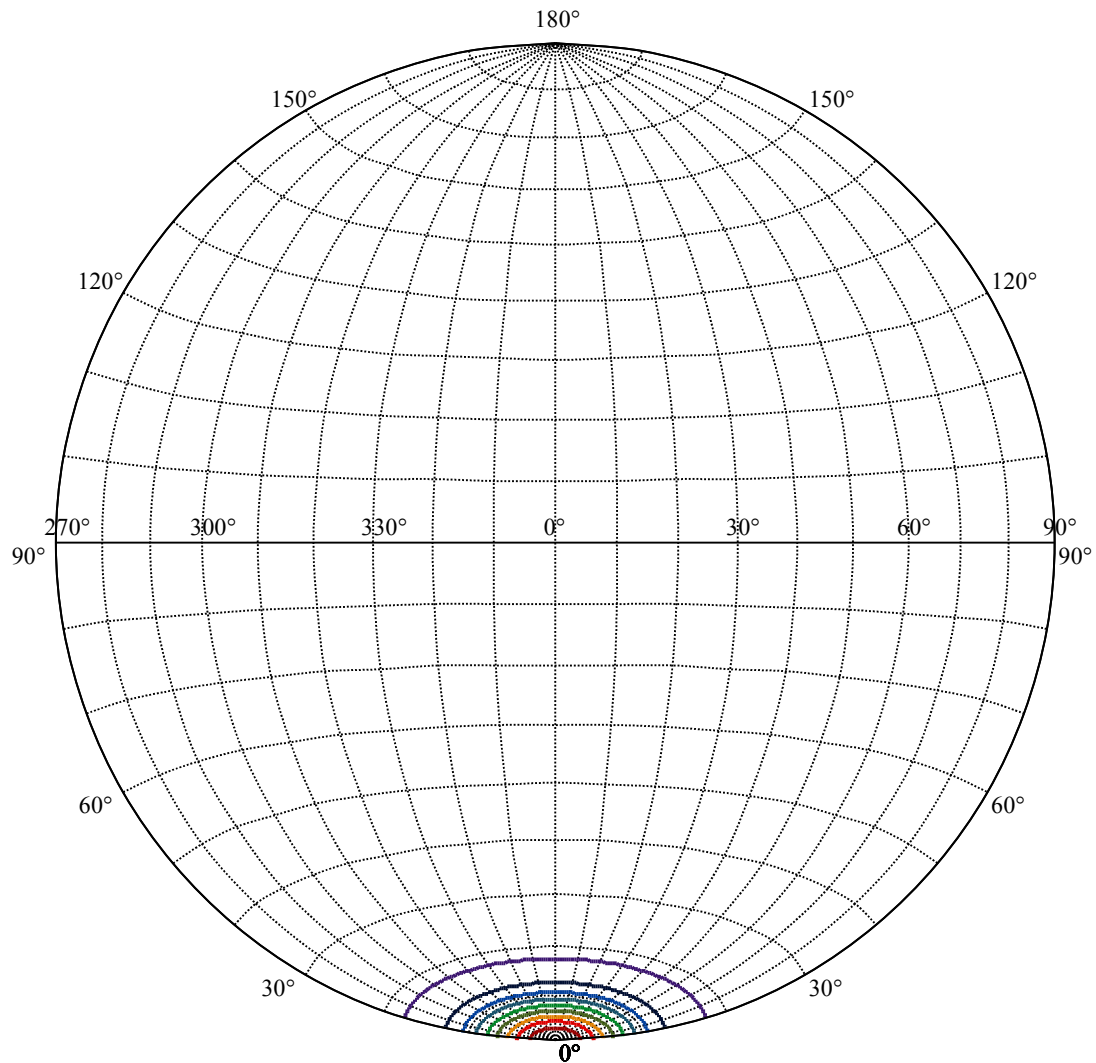
ZONAL LUMEN SUMMARY

0-10	370.74
10-20	220.90
20-30	133.48
30-40	79.05
40-50	48.59
50-60	24.55
60-70	12.74
70-80	10.83
80-90	6.53
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









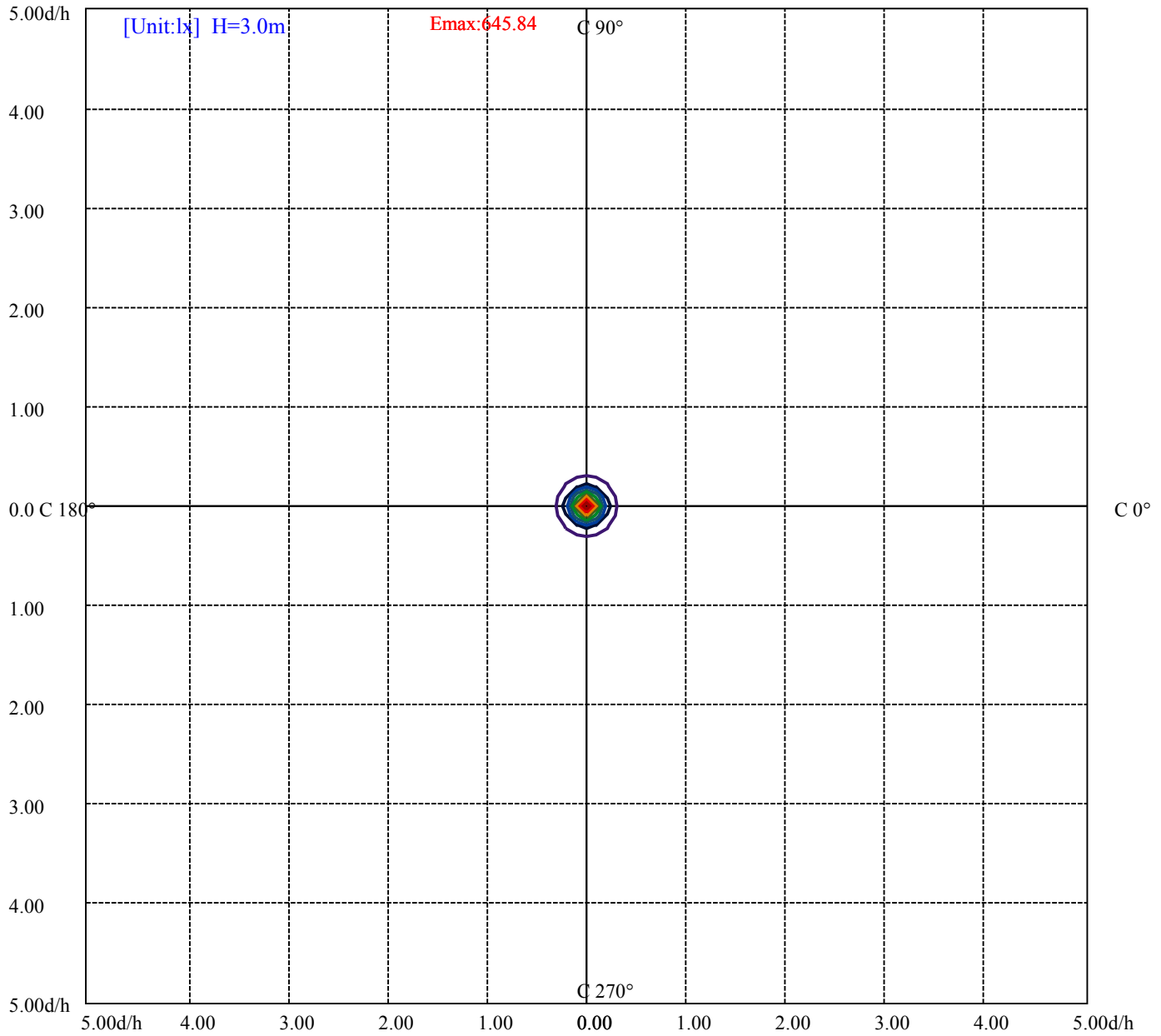
House

[Unit:cd]

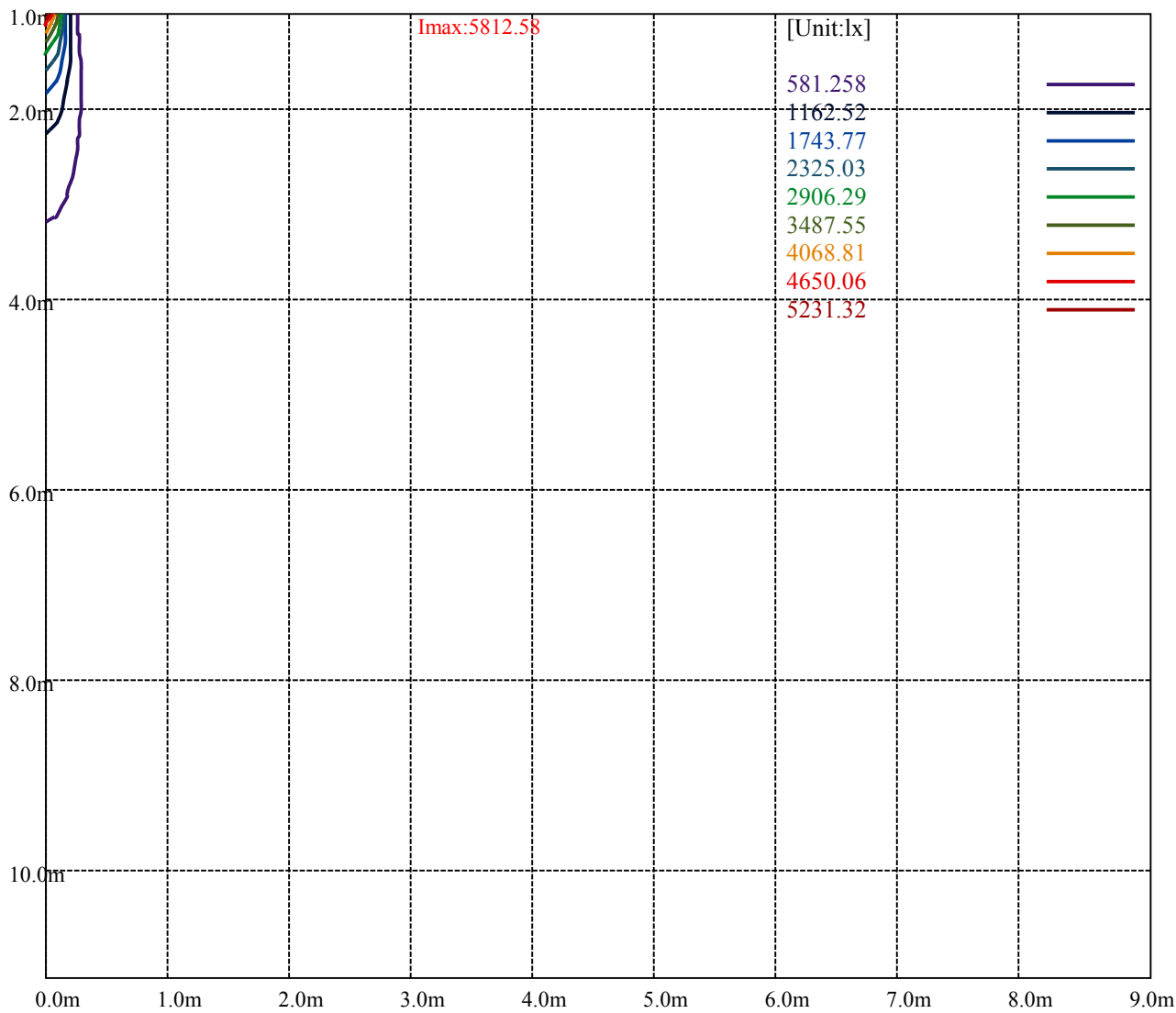
Road

Imax:5812.58

(10%Imax)	581.258	—
(20%Imax)	1162.52	—
(30%Imax)	1743.77	—
(40%Imax)	2325.03	—
(50%Imax)	2906.29	—
(60%Imax)	3487.55	—
(70%Imax)	4068.81	—
(80%Imax)	4650.06	—
(90%Imax)	5231.32	—



(10%Emax)	64.584	—
(20%Emax)	129.1678	—
(30%Emax)	193.7522	—
(40%Emax)	258.3356	—
(50%Emax)	322.92	—
(60%Emax)	387.5045	—
(70%Emax)	452.0878	—
(80%Emax)	516.6722	—
(90%Emax)	581.2556	—



Luminance Table

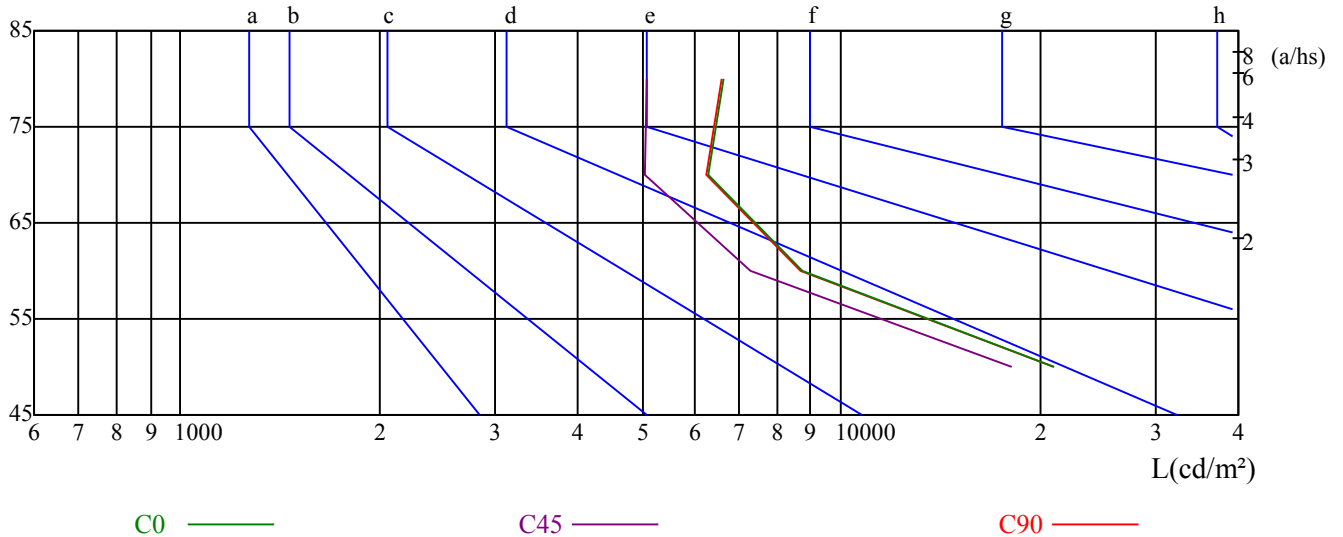
γ	45	50	55	60	65	70	75	80	85
C0	0	21046	0	8731	0	6292	0	6656	0
C45	0	18139	0	7284	0	5047	0	5067	0
C90	0	20977	0	8696	0	6260	0	6613	0

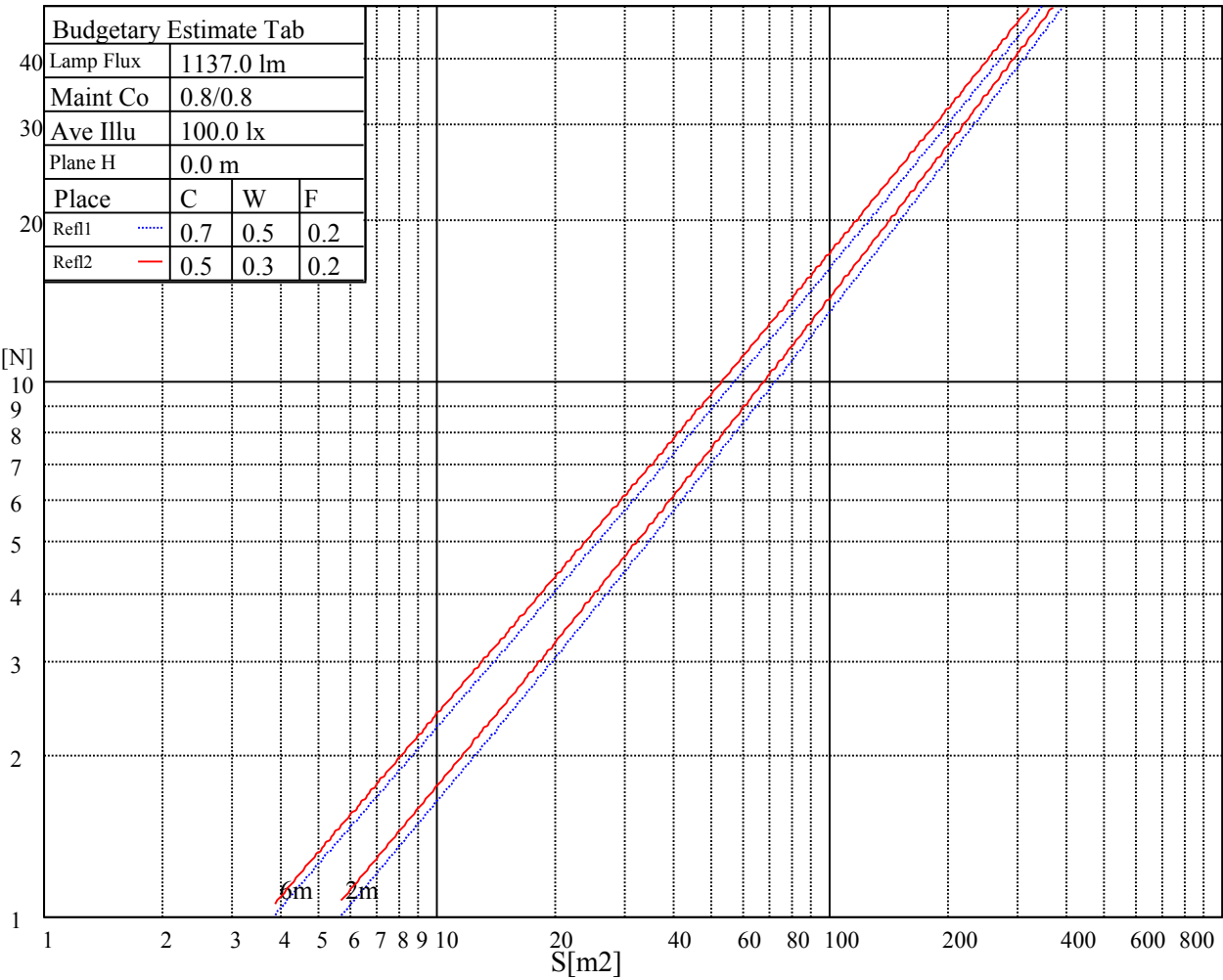
L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
32349	32349	32349	26809	26809	26809	32704	32704	32704

Glare Table

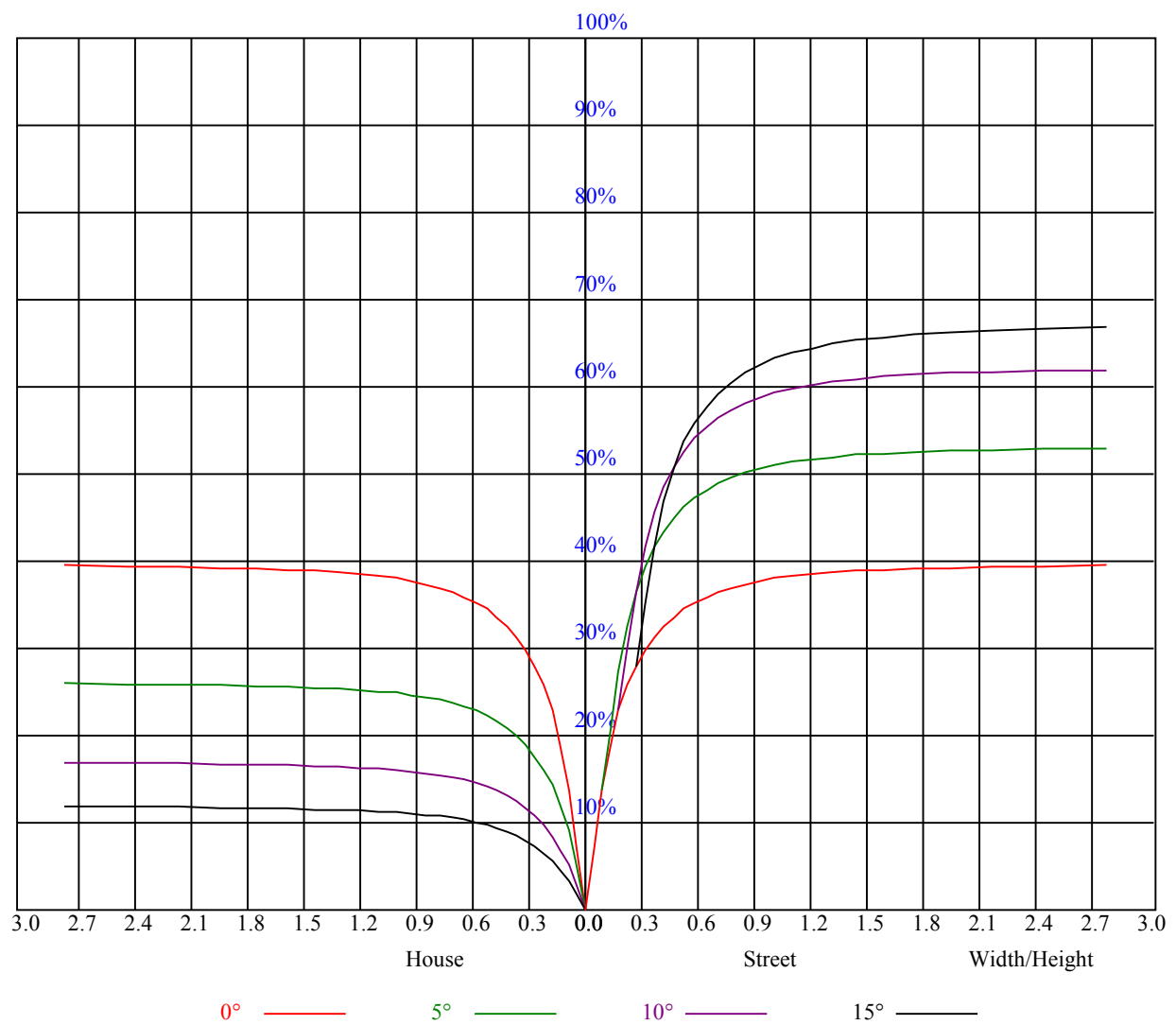
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

 $\gamma(^{\circ})$ 



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 RHOC=20 CU															
0	0.96	0.96	0.96	0.93	0.93	0.93	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.80
1	0.89	0.87	0.85	0.87	0.85	0.84	0.84	0.82	0.81	0.81	0.80	0.79	0.78	0.77	0.76	0.75
2	0.84	0.81	0.78	0.82	0.80	0.77	0.80	0.77	0.75	0.77	0.75	0.74	0.75	0.74	0.72	0.71
3	0.79	0.76	0.73	0.78	0.75	0.72	0.76	0.73	0.71	0.74	0.72	0.70	0.72	0.71	0.69	0.68
4	0.75	0.72	0.69	0.75	0.71	0.68	0.73	0.70	0.67	0.71	0.69	0.67	0.70	0.68	0.66	0.65
5	0.72	0.68	0.65	0.71	0.68	0.65	0.70	0.67	0.64	0.69	0.66	0.64	0.68	0.65	0.63	0.62
6	0.69	0.65	0.62	0.69	0.65	0.62	0.68	0.64	0.62	0.66	0.64	0.61	0.66	0.63	0.61	0.60
7	0.67	0.63	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	0.64	0.61	0.59	0.58
8	0.64	0.61	0.58	0.64	0.60	0.58	0.63	0.60	0.58	0.62	0.60	0.57	0.62	0.59	0.57	0.56
9	0.62	0.59	0.56	0.62	0.58	0.56	0.61	0.58	0.56	0.61	0.58	0.56	0.60	0.57	0.55	0.55
10	0.61	0.57	0.54	0.60	0.57	0.54	0.60	0.56	0.54	0.59	0.56	0.54	0.59	0.56	0.54	0.53



Nata 1426-N

Intensity data(cd)									
Appendix Page: 15 Total:16									
C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	5804.60	5582.17	4922.59	3866.06	2882.20	2044.79	1405.59	948.07	703.07
45.0	5790.28	5558.49	4870.29	3878.72	2880.00	1993.59	1375.86	925.50	692.61
90.0	5835.98	5698.89	5001.87	4035.63	3006.08	2055.26	1372.01	929.08	691.12
135.0	5819.46	5794.14	5293.12	4310.37	3386.52	2336.04	1582.32	1052.13	736.10
180.0	5804.60	5532.07	4768.99	3743.28	2681.80	1880.73	1095.51	878.04	677.19
225.0	5790.28	5511.70	4714.48	3713.55	2752.27	1895.04	1206.84	899.84	683.36
270.0	5835.98	5470.40	4630.79	3607.30	2663.63	1836.13	1277.31	875.95	664.53
315.0	5819.46	5305.23	4405.06	3382.67	2413.12	1677.57	1080.37	790.94	630.29
360.0	5804.60	5582.17	4922.59	3866.06	2882.20	2044.79	1405.59	948.07	703.07
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	570.38	474.59	404.66	339.70	288.50	242.30	205.47	176.79	148.71
45.0	558.27	459.17	395.30	325.93	280.24	233.27	196.99	164.67	141.44
90.0	541.53	462.25	386.44	328.36	279.47	233.33	194.18	162.09	137.26
135.0	584.15	484.50	407.42	340.25	295.65	243.68	205.80	172.05	147.00
180.0	543.24	444.25	376.59	318.83	263.94	224.69	189.23	157.74	137.86
225.0	549.30	463.24	385.89	324.28	273.63	230.80	192.64	163.57	139.40
270.0	550.01	456.97	389.25	331.44	280.79	233.93	197.76	166.55	141.72
315.0	513.62	432.03	366.18	310.85	263.28	224.80	189.28	159.55	137.97
360.0	570.38	474.59	404.66	339.70	288.50	242.30	205.47	176.79	148.71
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	128.17	112.59	98.44	85.45	76.64	67.39	59.57	51.48	43.55
45.0	120.24	102.96	91.12	78.24	69.10	61.66	54.40	46.96	40.36
90.0	116.61	101.19	86.93	75.54	64.69	57.04	50.49	43.71	36.83
135.0	124.26	106.70	93.10	80.77	71.35	62.76	56.10	49.06	41.68
180.0	117.55	103.67	92.22	81.10	71.30	64.36	56.10	48.78	41.29
225.0	118.10	104.28	91.67	79.83	71.08	63.37	55.11	47.84	39.97
270.0	119.42	101.41	88.53	74.49	64.47	57.15	49.66	42.01	35.46
315.0	117.82	102.57	89.19	77.19	67.11	59.63	51.97	43.55	36.45
360.0	128.17	112.59	98.44	85.45	76.64	67.39	59.57	51.48	43.55
C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	35.79	28.96	23.40	19.32	16.90	14.87	13.60	13.05	12.72
45.0	32.70	26.37	21.53	17.89	15.58	13.60	12.39	11.73	11.29
90.0	30.50	24.72	19.55	16.57	14.48	12.77	11.51	10.79	10.30
135.0	34.30	28.19	22.74	18.77	16.30	14.15	12.72	11.78	11.23
180.0	33.58	27.47	22.46	18.94	16.35	14.31	12.88	12.28	11.84
225.0	32.15	26.37	20.92	17.56	15.25	13.43	12.11	11.56	11.12
270.0	29.01	23.18	18.99	15.91	13.82	12.22	11.18	10.63	10.30
315.0	29.29	23.56	19.16	16.35	14.09	12.61	11.67	10.90	10.19
360.0	35.79	28.96	23.40	19.32	16.90	14.87	13.60	13.05	12.72
C/γ(°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	12.44	12.39	12.39	12.33	11.89	11.12	10.19	9.58	4.68
45.0	10.90	10.52	10.41	10.41	10.24	9.91	9.25	7.98	4.40
90.0	9.97	9.74	9.47	9.19	9.14	8.75	8.31	6.88	4.07
135.0	10.79	10.41	9.97	9.86	10.08	10.35	9.52	6.88	4.35
180.0	11.67	11.62	11.34	11.12	10.90	10.79	10.35	4.73	4.40
225.0	10.79	10.68	10.74	10.74	10.63	10.52	9.97	7.93	4.35
270.0	10.02	9.69	9.36	9.03	8.92	9.41	9.08	8.20	4.07
315.0	9.36	8.48	7.82	6.44	5.84	5.51	5.18	4.73	4.18
360.0	12.44	12.39	12.39	12.33	11.89	11.12	10.19	9.58	4.68

Intensity data(cd)

Appendix Page: 16 Total:16

C/ γ (°)	90.0
0.0	3.91
45.0	3.91
90.0	3.91
135.0	3.96
180.0	3.85
225.0	4.02
270.0	3.91
315.0	3.85
360.0	3.91