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Nata

Client: NT

LumCAT: 1-1763-LM

Luminaire: 92.70.492.00 LED HOLDER

Report No: 20251031-B005

Ballast type: DC

Test No: 20251031-C005

Voltage(V): 34.570

LampCAT: PHILIPS SLM 1203 L09 1313 G8N

Current(A): 0.217

Lamp flux(lm): 1323.0

Power (W): 7.501

Number of Lamps: 1

PF: 0.000

Length(mm): 45

Width(mm): 45

Phm Type: C

Height(mm): 19

Photometric Results

Lumens(lm): 1262.63, Efficiency(%): 95.44% , Luminous Efficacy(lm/W): 168.33

Central intensity(cd): 5649.023, Maximum intensity(cd): 5649.023

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=18.6

[C90/270]Total=18.6

Field angle(10%Imax): [C0/180]Total=43.4

[C90/270]Total=43.4

Maximum s/h(1/2): C0_180=0.32 C90_270=0.32

Maximum s/h(1/4): C0_180=0.32 C90_270=0.32

Up flux rate of lamp(%): 0.00%

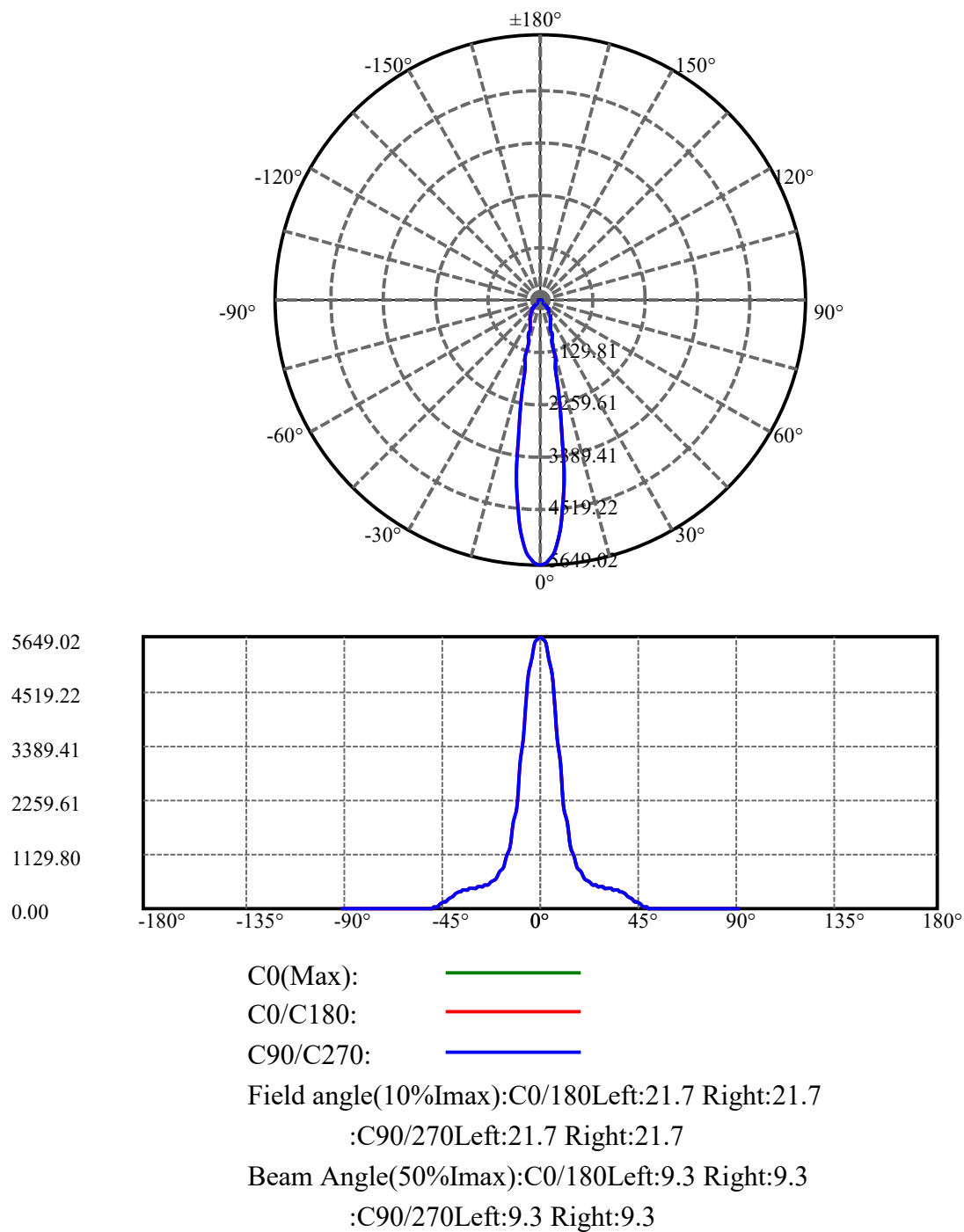
Down flux rate of lamp(%): 95.44%

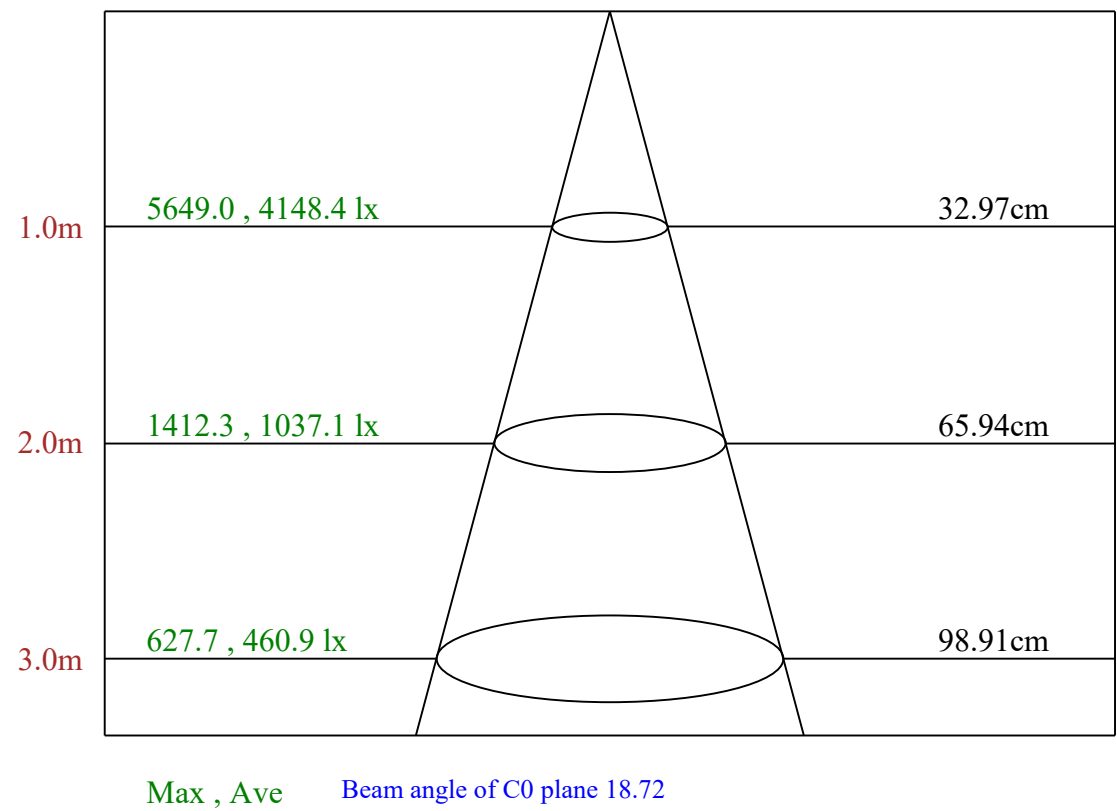
Up flux rate of LUM(%): - -

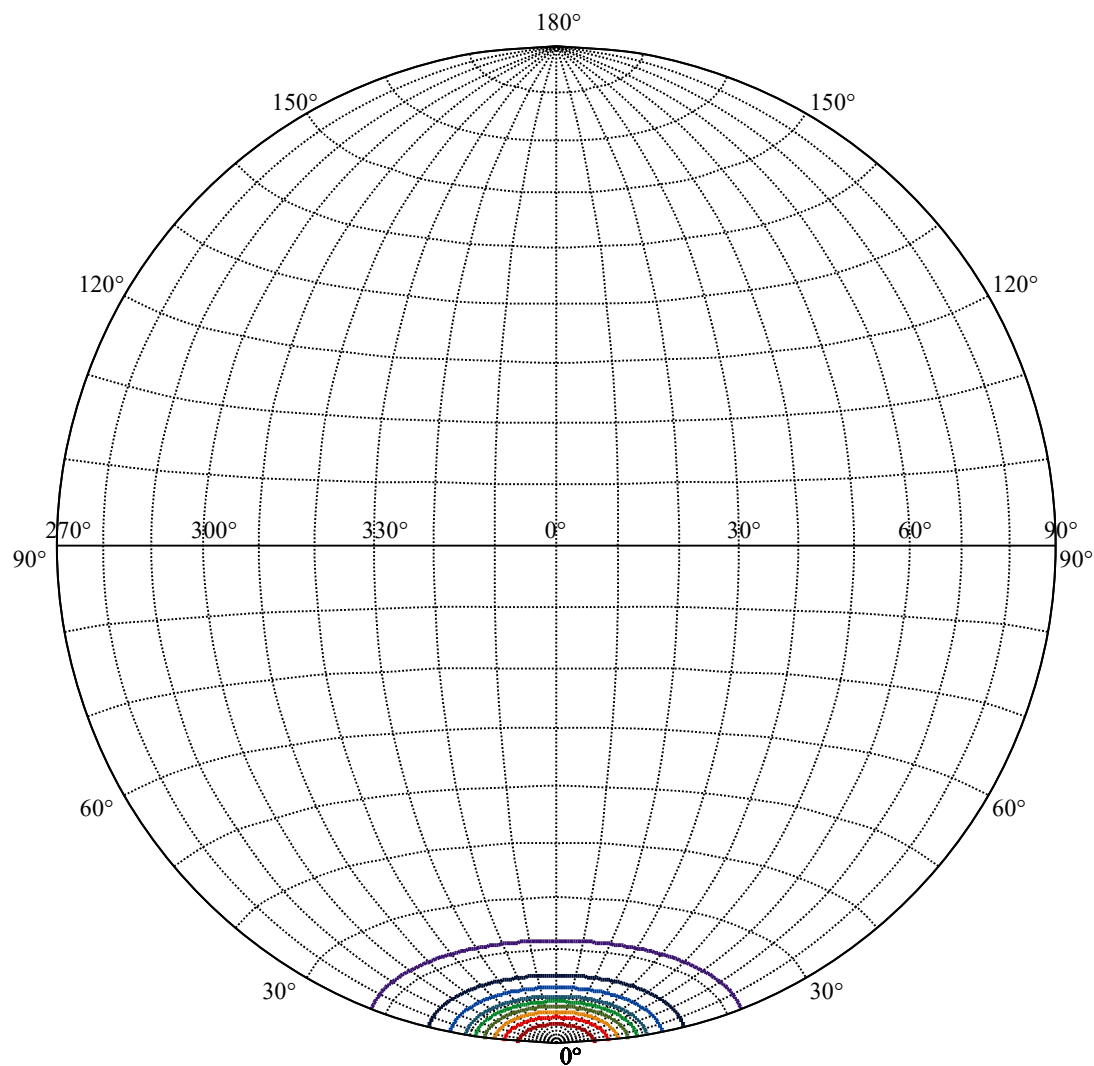
Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.352%





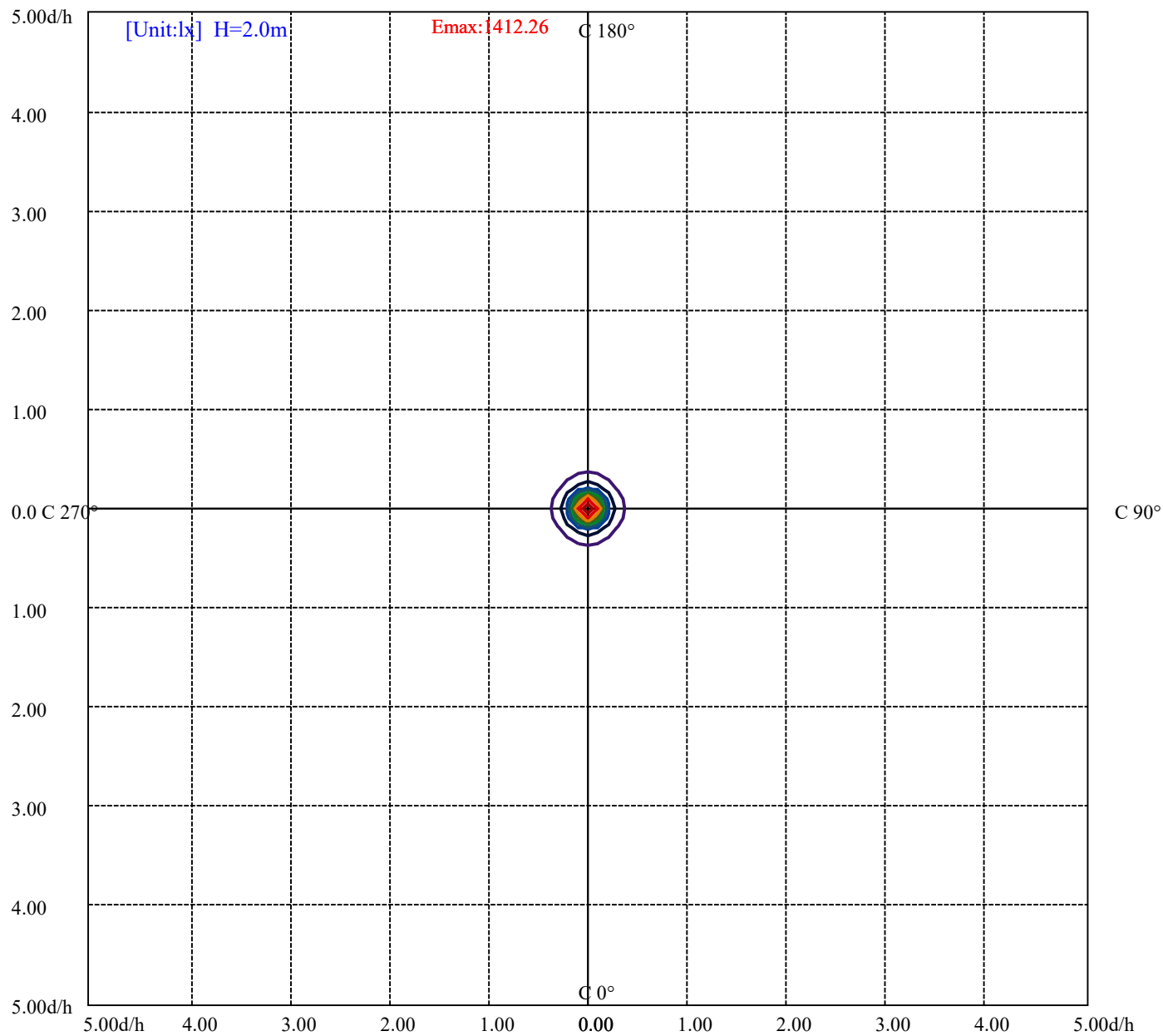


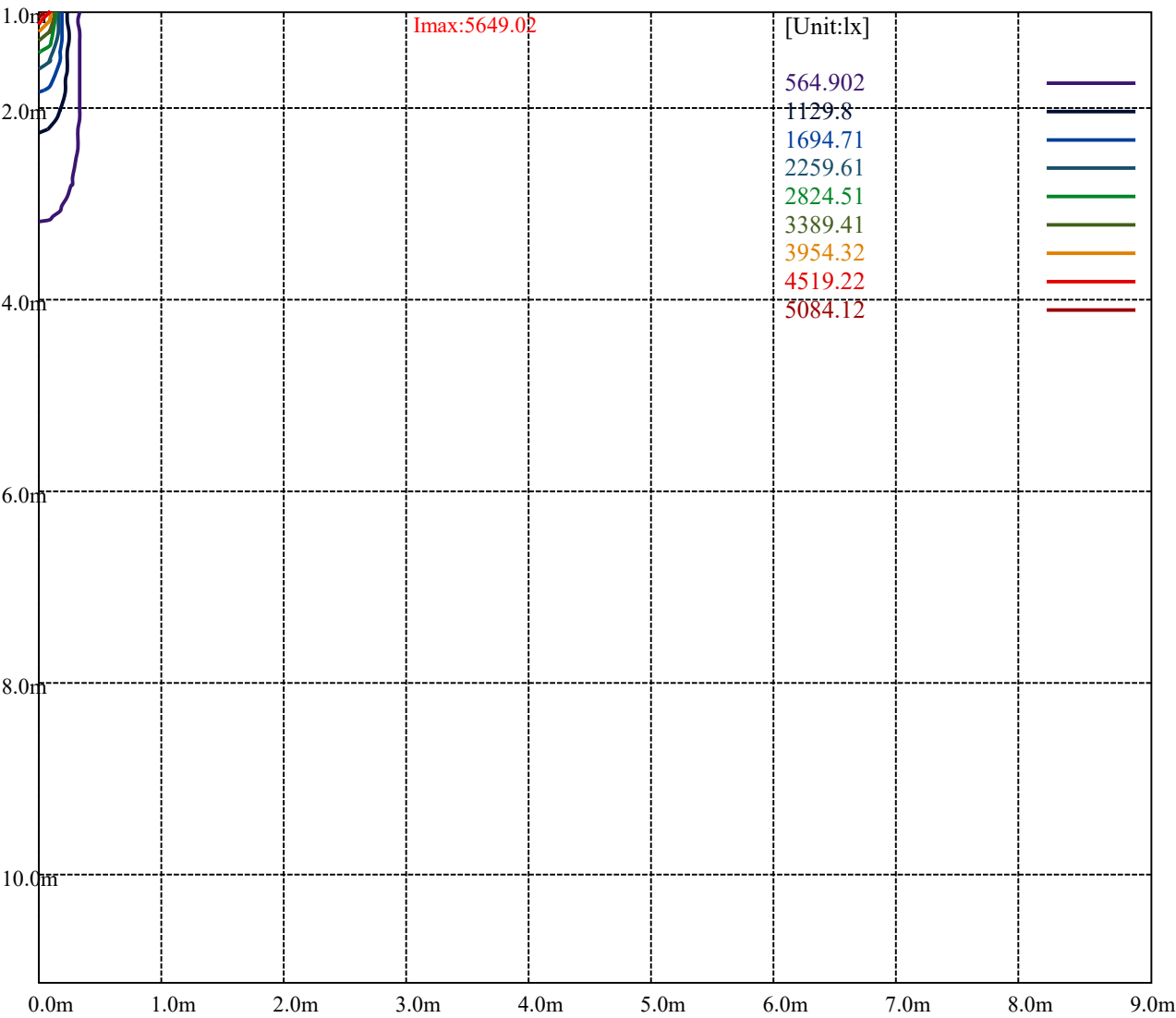
House

[Unit:cd]

Road

Imax:5649.02	
(10%Imax) 564.902	
(20%Imax) 1129.8	
(30%Imax) 1694.71	
(40%Imax) 2259.61	
(50%Imax) 2824.51	
(60%Imax) 3389.41	
(70%Imax) 3954.32	
(80%Imax) 4519.22	
(90%Imax) 5084.12	





Luminance Table

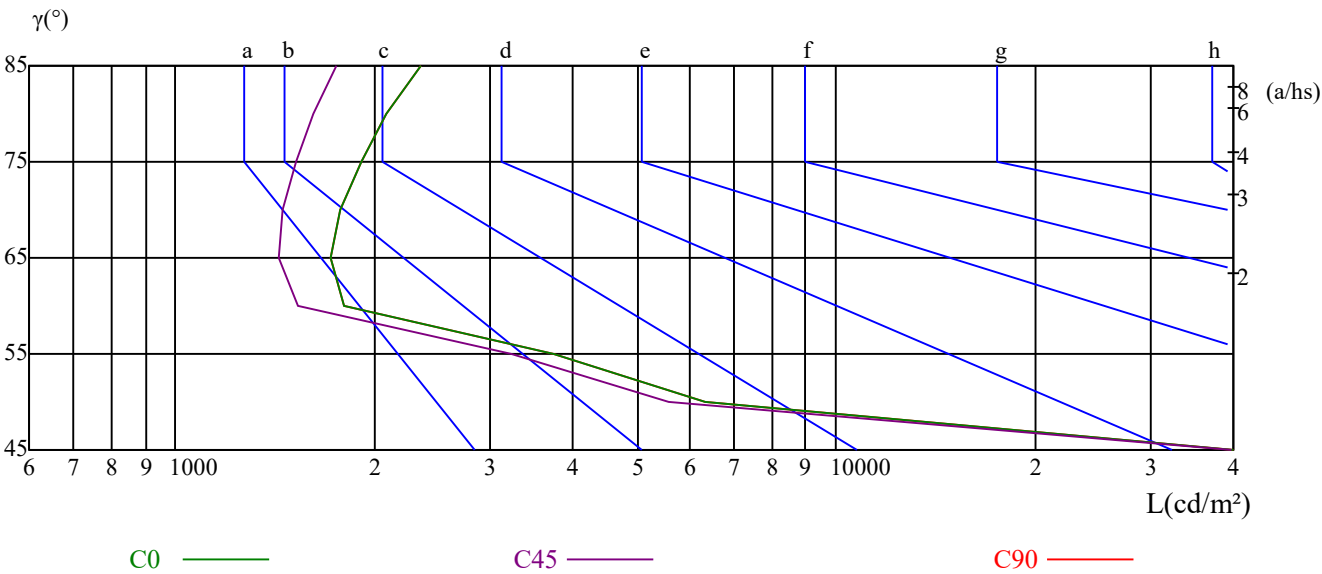
γ	45	50	55	60	65	70	75	80	85
C0	44736	6349	3723	1805	1716	1770	1906	2083	2356
C45	39837	5576	3221	1537	1434	1448	1521	1612	1754
C90	44736	6349	3723	1805	1716	1770	1906	2083	2356

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3270	3270	3270	4909	4909	4909	13724	13724	13724

Glare Table

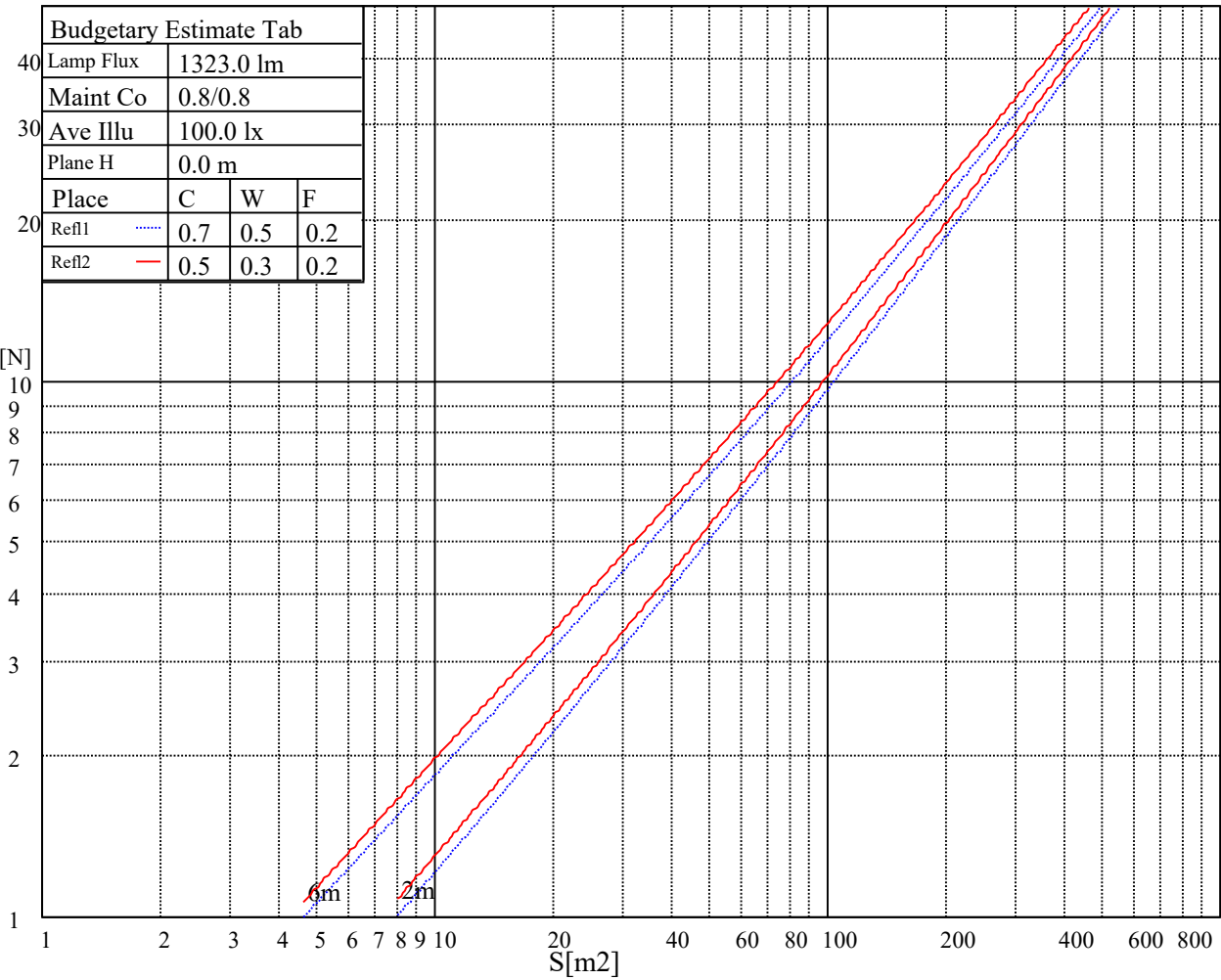
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

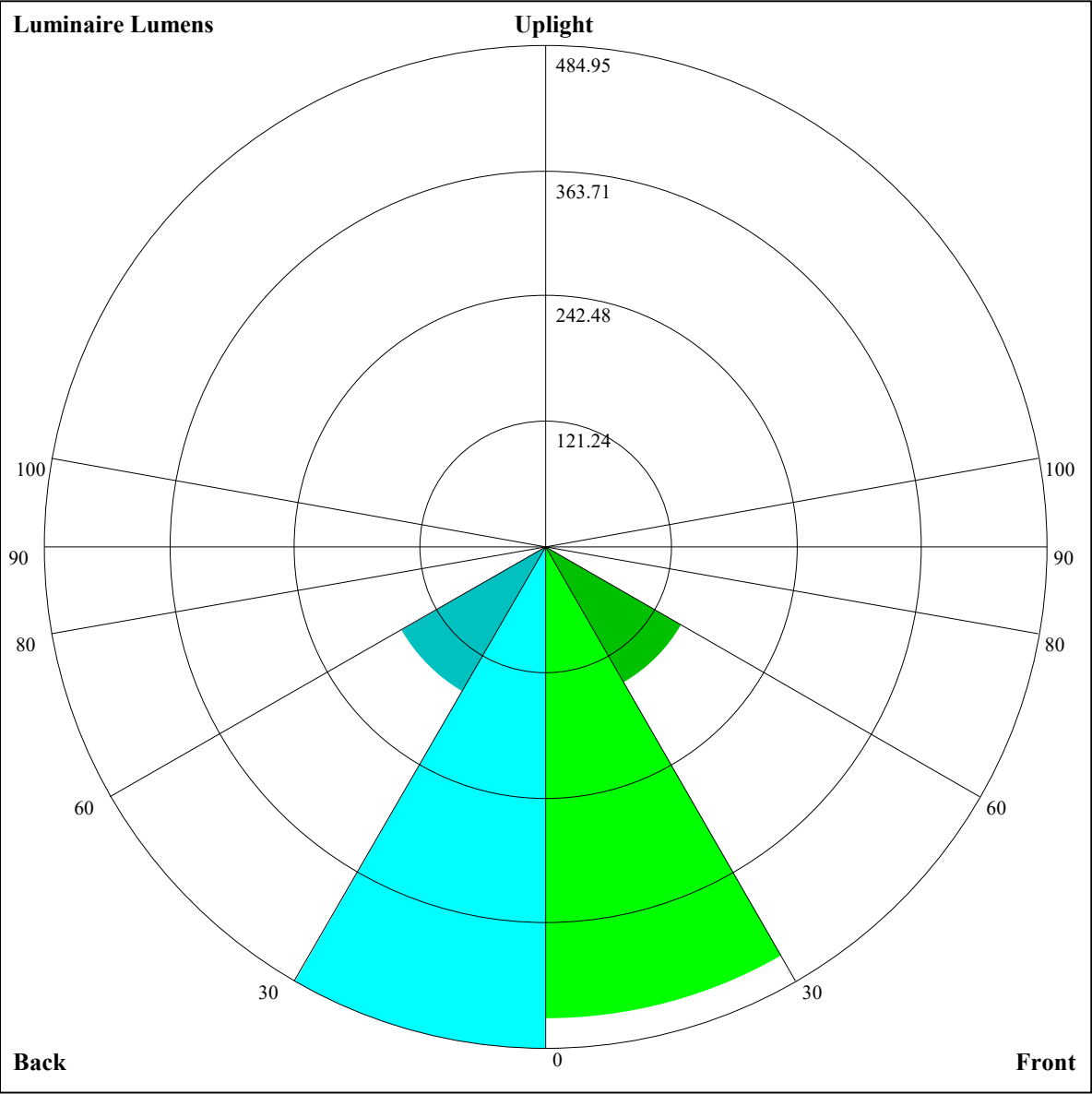


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	20.75	21.72	21.11	22.04	22.35	21.11	22.09	21.48	22.40	22.72
	3H	20.55	21.42	20.93	21.75	22.10	20.92	21.78	21.30	22.12	22.47
	4H	20.45	21.25	20.85	21.61	21.98	20.82	21.62	21.22	21.97	22.34
	6H	20.38	21.11	20.79	21.49	21.88	20.74	21.47	21.16	21.85	22.25
	8H	20.31	21.01	20.73	21.39	21.80	20.68	21.37	21.10	21.76	22.17
	12H	20.25	20.91	20.68	21.31	21.73	20.62	21.28	21.04	21.67	22.09
4H	2H	20.44	21.24	20.84	21.59	21.96	20.81	21.61	21.21	21.96	22.33
	3H	20.20	20.87	20.63	21.27	21.69	20.57	21.24	21.00	21.63	22.05
	4H	20.14	20.72	20.58	21.14	21.59	20.51	21.08	20.95	21.51	21.96
	6H	20.02	20.53	20.50	20.98	21.44	20.38	20.89	20.86	21.35	21.80
	8H	19.98	20.45	20.47	20.91	21.38	20.34	20.81	20.83	21.27	21.75
	12H	19.95	20.39	20.44	20.84	21.36	20.31	20.75	20.80	21.20	21.72
8H	4H	19.94	20.41	20.43	20.87	21.35	20.31	20.78	20.79	21.24	21.71
	6H	19.82	20.21	20.33	20.69	21.20	20.18	20.57	20.69	21.05	21.56
	8H	19.83	20.16	20.37	20.68	21.18	20.19	20.52	20.73	21.04	21.54
	12H	19.82	20.07	20.36	20.59	21.11	20.17	20.42	20.72	20.94	21.46
12H	4H	19.89	20.32	20.38	20.78	21.30	20.26	20.69	20.75	21.14	21.66
	6H	19.81	20.13	20.34	20.65	21.15	20.17	20.49	20.70	21.02	21.51
	8H	19.79	20.04	20.33	20.55	21.08	20.14	20.40	20.69	20.91	21.44
Variation with the observer position at spacings:											
S = 1.0H		3.7/-14.1					3.7/-14.1				
S = 1.5H		6.0/-13.4					6.0/-13.4				
S = 2.0H		7.9/-12.2					7.9/-12.2				
Standard tables:		BK0					BK0				
Uncorrected UGR		1.6					1.6				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



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	COEFFCIENTS OF UTILIZATION RHOFC=20 CU															
0	1.14	1.14	1.14	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	0.97	0.97	0.97	0.95
1	1.07	1.04	1.02	1.04	1.03	1.01	1.01	0.99	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.90
2	1.00	0.97	0.94	0.99	0.96	0.93	0.96	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.87	0.86
3	0.95	0.90	0.87	0.93	0.90	0.86	0.91	0.88	0.85	0.89	0.86	0.84	0.87	0.84	0.83	0.81
4	0.90	0.85	0.82	0.89	0.84	0.81	0.87	0.83	0.80	0.85	0.82	0.79	0.83	0.80	0.78	0.77
5	0.85	0.80	0.77	0.84	0.80	0.76	0.83	0.79	0.76	0.81	0.78	0.75	0.80	0.77	0.75	0.73
6	0.81	0.76	0.73	0.80	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.72	0.77	0.74	0.71	0.70
7	0.78	0.73	0.69	0.77	0.72	0.69	0.76	0.72	0.69	0.75	0.71	0.68	0.74	0.70	0.68	0.67
8	0.74	0.69	0.66	0.74	0.69	0.66	0.73	0.69	0.66	0.72	0.68	0.65	0.71	0.68	0.65	0.64
9	0.71	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.69	0.65	0.63	0.62
10	0.69	0.64	0.61	0.68	0.64	0.61	0.68	0.63	0.61	0.67	0.63	0.60	0.66	0.63	0.60	0.59



Luminaire Lumens:

FL=455.93,FM=151.87,FH=2.76,FVH=1.33

BL=484.95,BM=161.18,BH=2.78,BVH=1.33

UL=0,UH=0

BUG Rating:B1-U0-G0

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	5681.32	5613.28	5507.36	5336.84	5093.13	4647.03	4216.44	3597.25	3114.99
45.0	5637.40	5682.18	5675.29	5596.06	5482.38	5249.86	4969.12	4602.25	4060.57
90.0	5681.32	5690.79	5634.81	5546.97	5407.46	5177.52	4784.82	4375.76	3891.78
135.0	5596.06	5671.84	5704.57	5645.15	5570.22	5456.55	5266.23	4898.50	4508.38
180.0	5681.32	5695.96	5658.06	5571.09	5385.07	5168.05	4866.64	4373.18	3918.47
225.0	5637.40	5560.75	5393.68	5174.94	4872.67	4492.88	3928.81	3452.57	2997.87
270.0	5681.32	5602.95	5509.94	5328.23	5078.49	4745.21	4339.59	3747.96	3265.70
315.0	5596.06	5504.77	5306.70	5054.38	4708.18	4174.24	3678.20	3176.13	2596.56
360.0	5681.32	5613.28	5507.36	5336.84	5093.13	4647.03	4216.44	3597.25	3114.99
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2663.73	1670.35	1670.35	1538.51	1317.70	1115.66	988.90	879.87	790.57
45.0	3580.89	3106.38	2643.92	2128.07	1780.15	1497.69	1274.64	1067.95	943.08
90.0	3363.87	2713.68	1709.97	1709.97	1565.46	1278.51	1113.60	989.59	869.88
135.0	4053.68	3416.40	2912.61	2343.37	1951.53	1631.17	1377.12	1139.43	1005.09
180.0	3450.85	2885.91	2455.32	2068.65	1663.03	1409.84	1216.08	1035.23	922.41
225.0	2579.33	1703.94	1703.94	1510.17	1251.39	1094.13	942.91	843.27	761.89
270.0	2806.68	2376.95	1907.61	1612.22	1375.40	1149.77	1012.84	906.91	800.13
315.0	1681.98	1681.98	1491.05	1281.96	1117.39	990.45	867.64	784.19	714.35
360.0	2663.73	1670.35	1670.35	1538.51	1317.70	1115.66	988.90	879.87	790.57
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	703.16	646.58	603.26	567.86	532.56	511.20	487.95	472.88	460.39
45.0	843.19	742.43	677.84	627.03	576.22	546.08	515.07	496.13	479.77
90.0	786.17	713.84	640.98	595.42	558.91	523.08	501.81	483.73	468.74
135.0	906.05	825.10	732.09	670.09	620.14	571.91	540.05	515.94	491.82
180.0	829.41	754.48	677.84	627.03	585.69	551.24	517.66	496.13	474.60
225.0	693.34	626.60	584.49	549.78	523.34	496.82	479.08	463.32	447.82
270.0	728.65	669.23	609.80	571.05	539.19	514.21	488.38	471.15	457.37
315.0	654.07	594.48	557.44	527.56	499.14	480.89	465.04	448.68	438.17
360.0	703.16	646.58	603.26	567.86	532.56	511.20	487.95	472.88	460.39
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	447.13	438.08	429.90	422.58	413.71	406.82	399.50	390.98	373.58
45.0	465.13	451.35	441.87	434.12	434.12	415.18	408.46	401.57	394.85
90.0	453.07	442.82	433.78	426.11	416.81	410.18	403.29	395.03	388.14
135.0	474.60	461.68	447.90	438.43	434.12	434.12	411.47	404.58	397.95
180.0	459.96	448.76	435.85	435.85	423.19	409.15	400.11	393.22	386.33
225.0	437.22	428.27	417.59	410.35	403.38	394.59	387.88	380.38	363.68
270.0	445.32	435.85	435.85	414.32	405.96	399.33	392.44	384.17	373.58
315.0	426.72	418.62	411.13	404.50	396.14	389.51	381.94	369.45	347.40
360.0	447.13	438.08	429.90	422.58	413.71	406.82	399.50	390.98	373.58
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	353.26	329.58	295.56	265.16	234.76	196.01	164.74	126.08	97.06
45.0	382.80	366.69	345.25	313.73	283.76	245.70	215.38	184.12	153.46
90.0	373.15	355.07	332.07	299.00	269.12	237.69	204.62	171.63	131.50
135.0	389.43	378.92	362.73	341.11	309.51	278.85	247.85	206.68	173.79
180.0	377.03	357.22	336.55	313.04	285.40	248.62	218.14	179.13	148.30
225.0	344.04	321.14	295.73	260.77	230.37	199.97	169.57	130.64	101.71
270.0	357.56	330.61	305.98	278.08	248.45	209.53	177.06	143.65	113.16
315.0	325.53	301.16	273.08	236.05	203.93	163.28	131.59	100.93	67.00
360.0	353.26	329.58	295.56	265.16	234.76	196.01	164.74	126.08	97.06

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	69.58	46.50	24.11	14.90	11.71	10.76	9.39	8.61	7.92
45.0	116.69	88.10	61.32	38.58	19.98	12.75	11.11	9.73	8.70
90.0	100.67	72.77	49.00	26.52	16.10	11.11	9.99	8.87	7.92
135.0	134.34	103.69	75.18	50.12	27.82	17.05	12.14	10.85	9.30
180.0	117.90	82.33	57.79	36.86	22.65	13.95	12.49	11.11	10.16
225.0	67.69	45.56	27.99	16.36	13.78	12.75	11.80	10.94	10.25
270.0	77.68	53.22	33.33	18.69	12.57	11.28	10.51	9.90	9.21
315.0	44.26	27.21	16.79	11.63	10.68	9.73	8.96	8.10	7.49
360.0	69.58	46.50	24.11	14.90	11.71	10.76	9.39	8.61	7.92
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	7.15	6.11	4.13	3.44	3.36	3.27	3.10	3.01	2.93
45.0	8.01	7.06	6.37	5.34	3.53	3.36	3.27	3.19	3.01
90.0	7.23	6.63	5.68	3.88	3.44	3.36	3.19	3.10	3.01
135.0	8.44	7.75	7.06	6.20	4.39	3.44	3.36	3.27	3.10
180.0	9.13	8.35	7.41	4.91	3.53	3.44	3.27	3.19	3.01
225.0	9.39	7.84	3.53	3.36	3.27	3.10	3.01	2.93	2.84
270.0	8.53	7.75	4.99	3.44	3.27	3.27	3.10	3.01	2.93
315.0	6.63	3.96	3.36	3.27	3.19	3.10	3.01	2.93	2.84
360.0	7.15	6.11	4.13	3.44	3.36	3.27	3.10	3.01	2.93
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	2.84	2.84	2.76	2.76	2.67	2.67	2.67	2.58	2.58
45.0	2.93	2.93	2.84	2.76	2.76	2.76	2.67	2.67	2.67
90.0	2.93	2.84	2.84	2.76	2.76	2.76	2.67	2.67	2.58
135.0	3.10	3.01	2.93	2.84	2.84	2.84	2.84	2.76	2.67
180.0	2.93	2.84	2.84	2.76	2.76	2.76	2.67	2.67	2.67
225.0	2.76	2.76	2.67	2.67	2.67	2.67	2.58	2.58	2.58
270.0	2.84	2.76	2.76	2.67	2.76	2.67	2.67	2.67	2.58
315.0	2.84	2.76	2.76	2.76	2.67	2.67	2.67	2.58	2.67
360.0	2.84	2.84	2.76	2.76	2.67	2.67	2.67	2.58	2.58
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.58	2.58	2.50	2.50	2.50	2.50	2.50	2.50	2.50
45.0	2.67	2.58	2.58	2.58	2.50	2.50	2.50	2.50	2.50
90.0	2.58	2.58	2.50	2.58	2.50	2.58	2.50	2.50	2.50
135.0	2.76	2.67	2.67	2.67	2.58	2.58	2.58	2.58	2.50
180.0	2.58	2.58	2.50	2.58	2.50	2.50	2.50	2.50	2.50
225.0	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.50	2.41
270.0	2.67	2.58	2.58	2.58	2.58	2.58	2.58	2.50	2.50
315.0	2.58	2.58	2.58	2.58	2.58	2.50	2.50	2.50	2.50
360.0	2.58	2.58	2.50	2.50	2.50	2.50	2.50	2.50	2.50
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	2.41	2.41	2.41	2.41	2.41	2.33	2.41	2.41	2.41
45.0	2.50	2.50	2.50	2.41	2.41	2.41	2.41	2.41	2.41
90.0	2.50	2.50	2.50	2.50	2.41	2.41	2.41	2.41	2.41
135.0	2.58	2.50	2.50	2.50	2.50	2.50	2.41	2.50	2.41
180.0	2.41	2.50	2.50	2.41	2.41	2.41	2.41	2.41	2.41
225.0	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.41	2.33
270.0	2.50	2.50	2.50	2.50	2.41	2.41	2.41	2.41	2.41
315.0	2.50	2.50	2.50	2.50	2.41	2.41	2.41	2.41	2.41
360.0	2.41	2.41	2.41	2.41	2.41	2.33	2.41	2.41	2.41

Intensity data(cd)

C/ γ (°)	90.0
0.0	2.33
45.0	2.41
90.0	2.33
135.0	2.41
180.0	2.33
225.0	2.41
270.0	2.41
315.0	2.41
360.0	2.33