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NT

Client: NT

LumCAT: 1-1711-LM

Luminaire: 92.70.121.00 LED HOLDER

Report No: 20260122-B006

Ballast type: AC

Test No: 20260122-C006

Voltage(V): 35.060

LampCAT: LUMINUS CXM-11 (TC) LESK

Current(A): 0.452

Lamp flux(lm): 2024.4

Power (W): 15.847

Number of Lamps: 1

PF: 0.000

Length(mm): 50

Width(mm): 50

Phm Type: C

Height(mm): 22

Photometric Results

Lumens(lm): 1951.25, Efficiency(%): 96.39% , Luminous Efficacy(lm/W): 123.13

Central intensity(cd): 6014.194, Maximum intensity(cd): 6014.194

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=23.4

[C90/270]Total=23.4

Field angle(10%Imax): [C0/180]Total=69.4

[C90/270]Total=69.4

Maximum s/h(1/2): C0_180=0.40 C90_270=0.40

Maximum s/h(1/4): C0_180=0.40 C90_270=0.40

Up flux rate of lamp(%): 0.00%

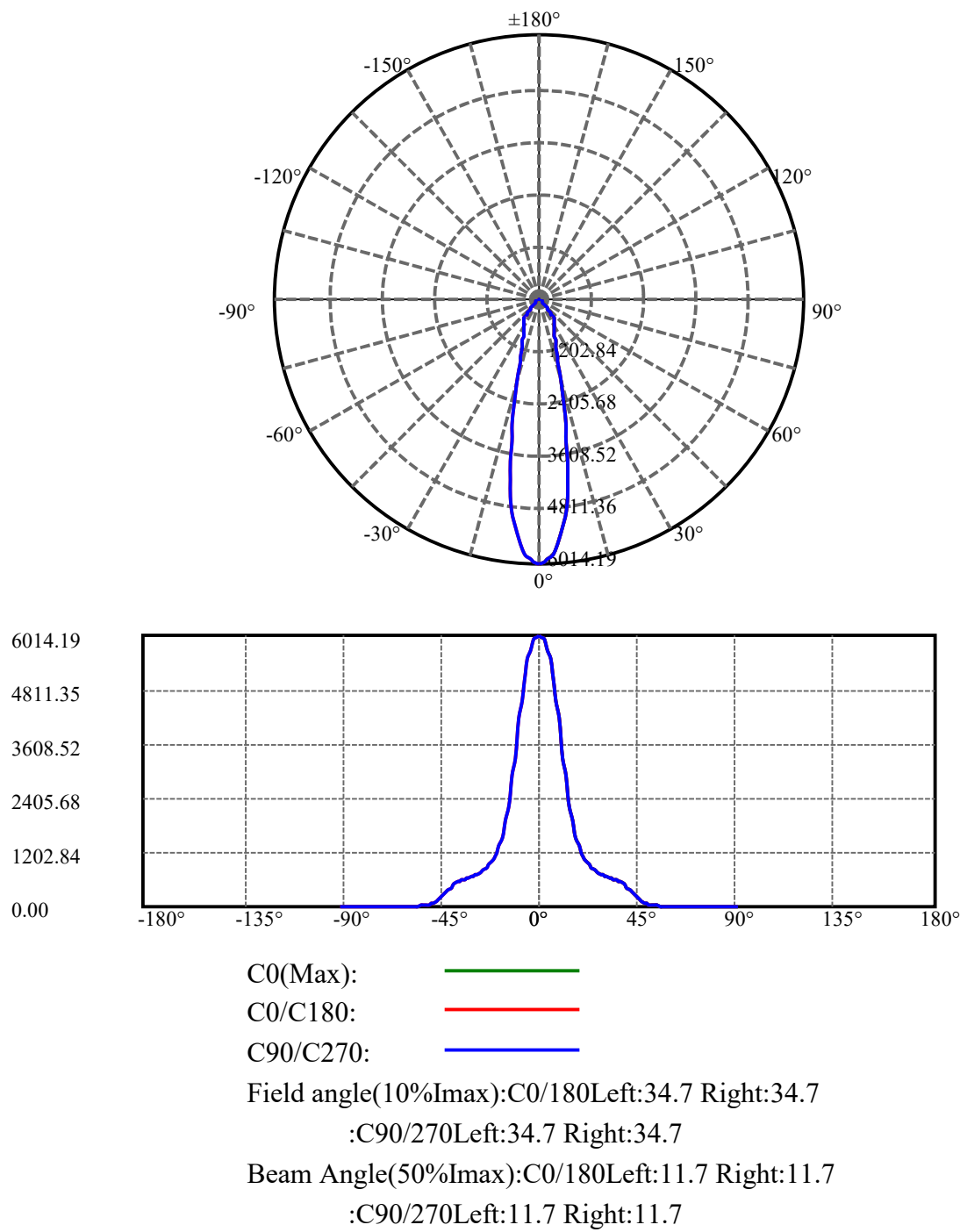
Down flux rate of lamp(%): 96.39%

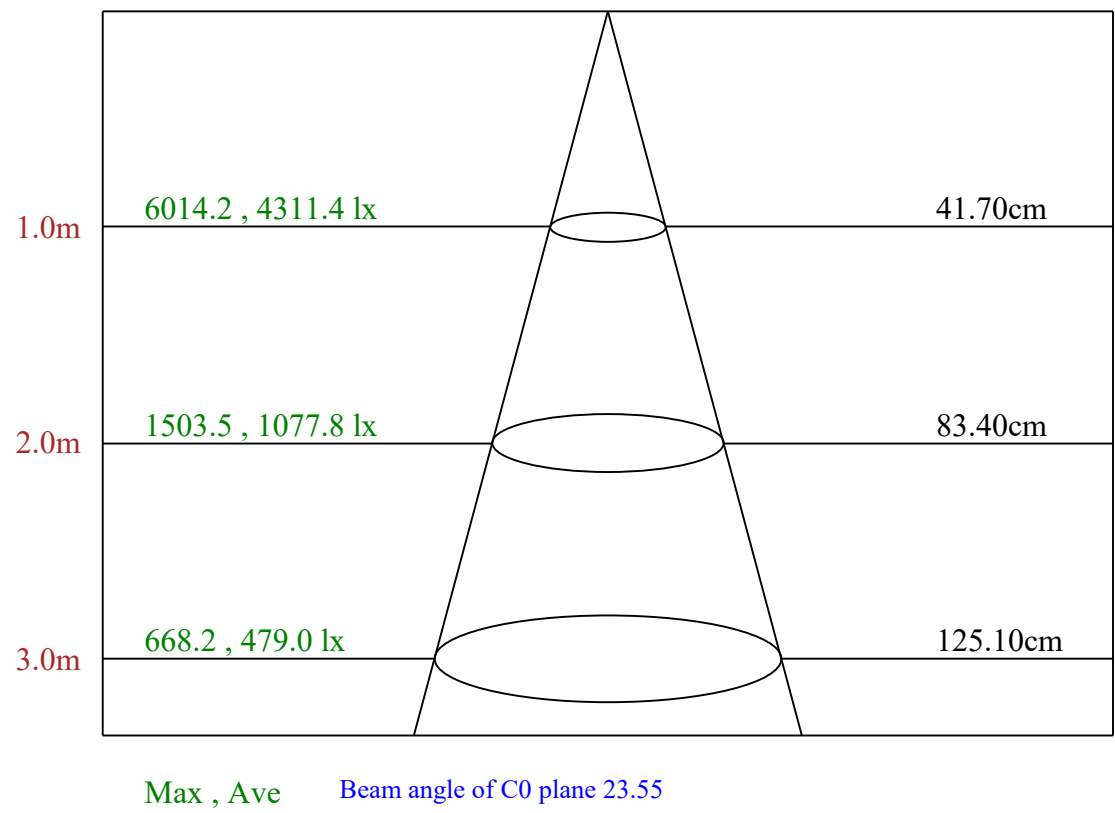
Up flux rate of LUM(%): - -

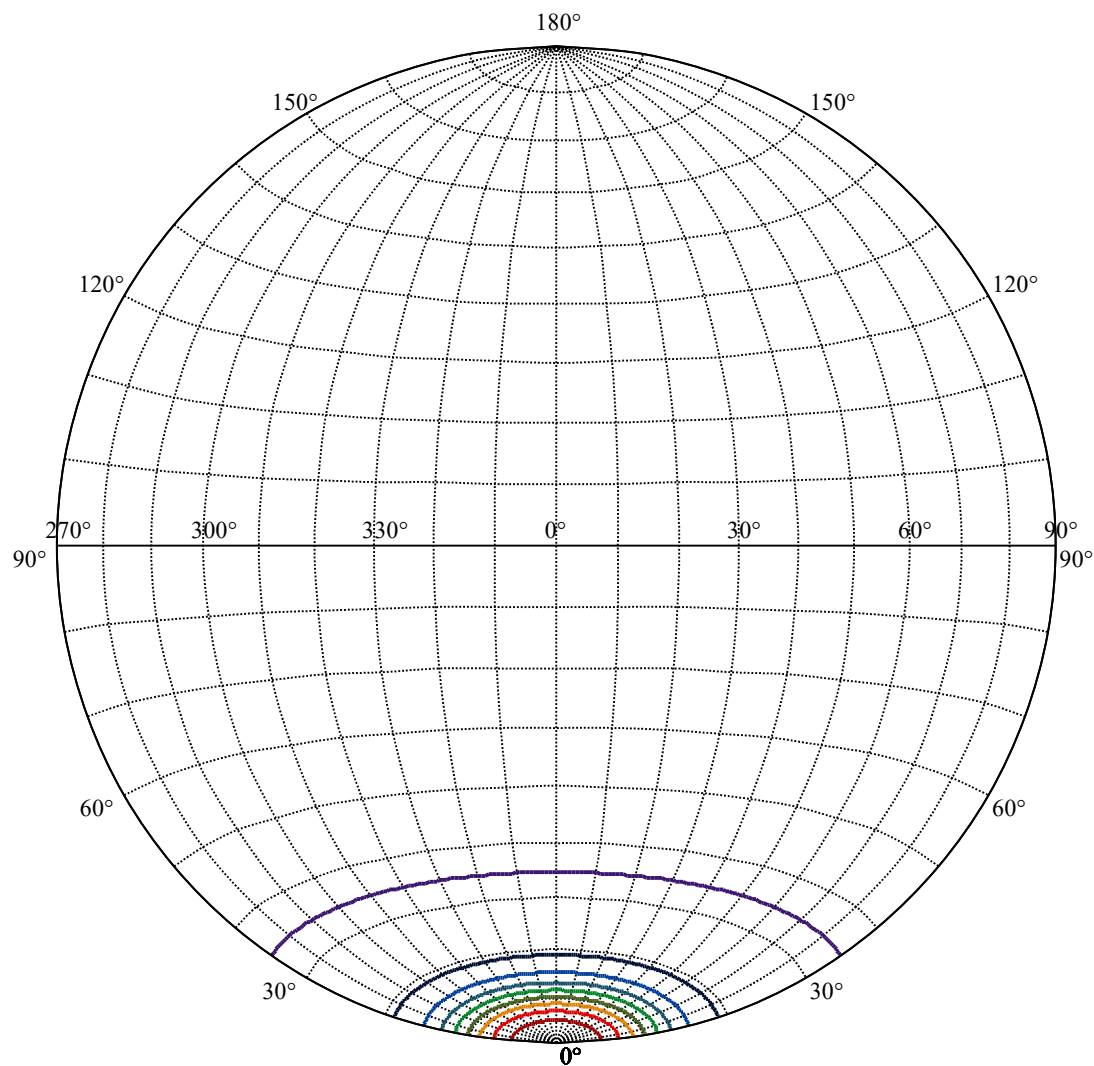
Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.595%





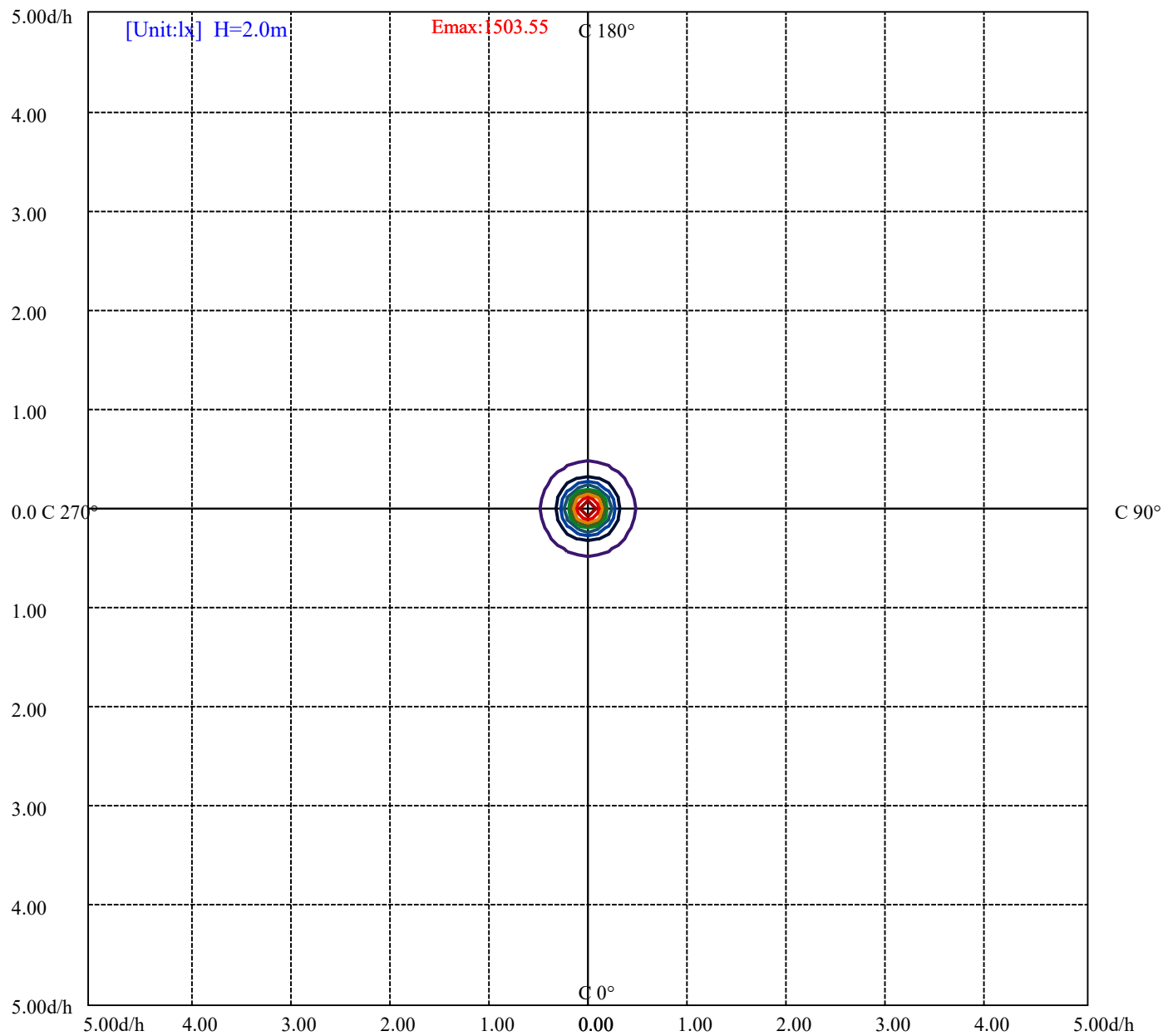


House

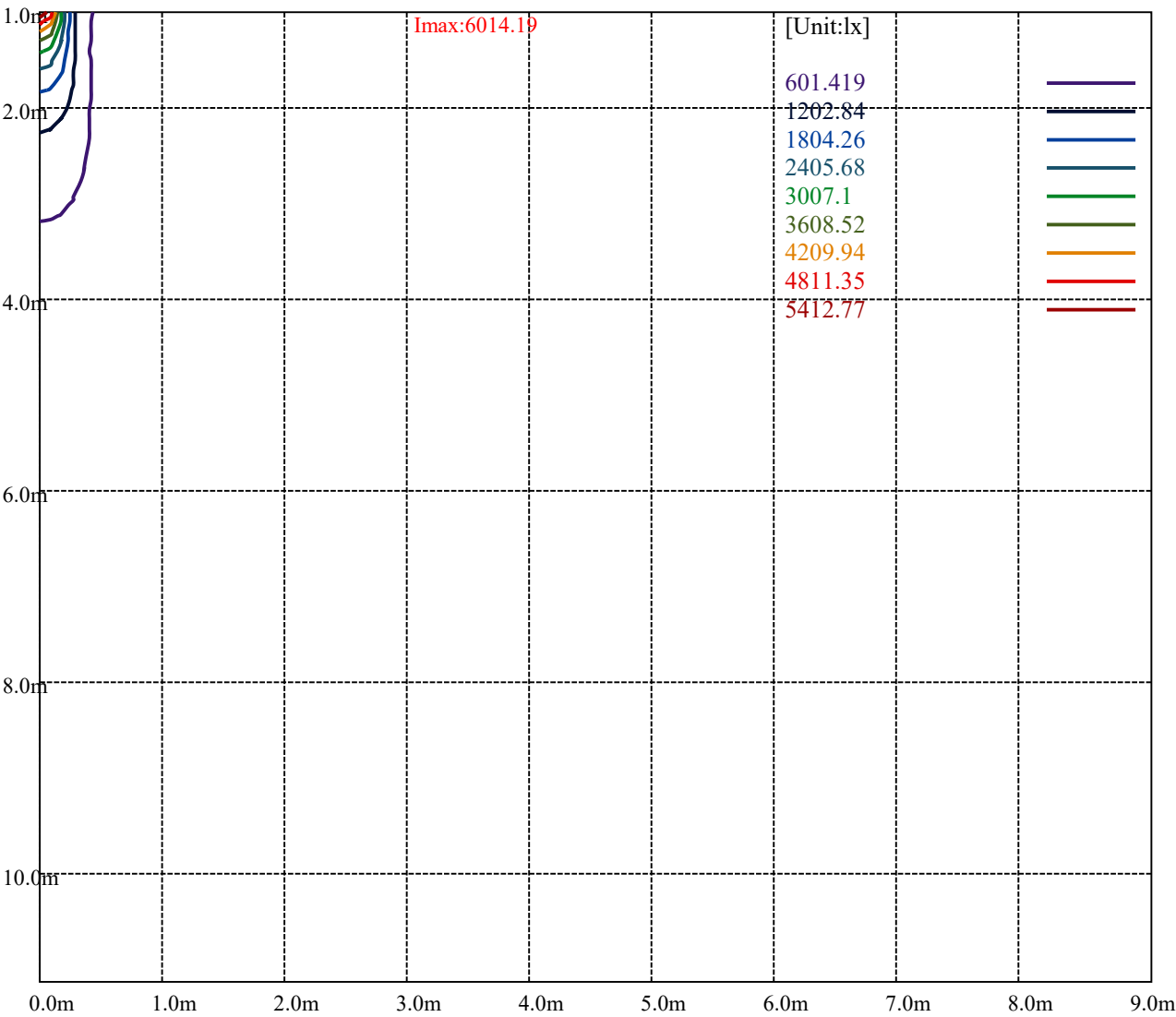
[Unit:cd]

Road

Imax:6014.19	
(10%Imax) 601.419	
(20%Imax) 1202.84	
(30%Imax) 1804.26	
(40%Imax) 2405.68	
(50%Imax) 3007.1	
(60%Imax) 3608.52	
(70%Imax) 4209.94	
(80%Imax) 4811.35	
(90%Imax) 5412.77	



(10%Emax)	150.3548	
(20%Emax)	300.71	
(30%Emax)	451.065	
(40%Emax)	601.42	
(50%Emax)	751.7725	
(60%Emax)	902.1275	
(70%Emax)	1052.483	
(80%Emax)	1202.838	
(90%Emax)	1353.193	



Luminance Table

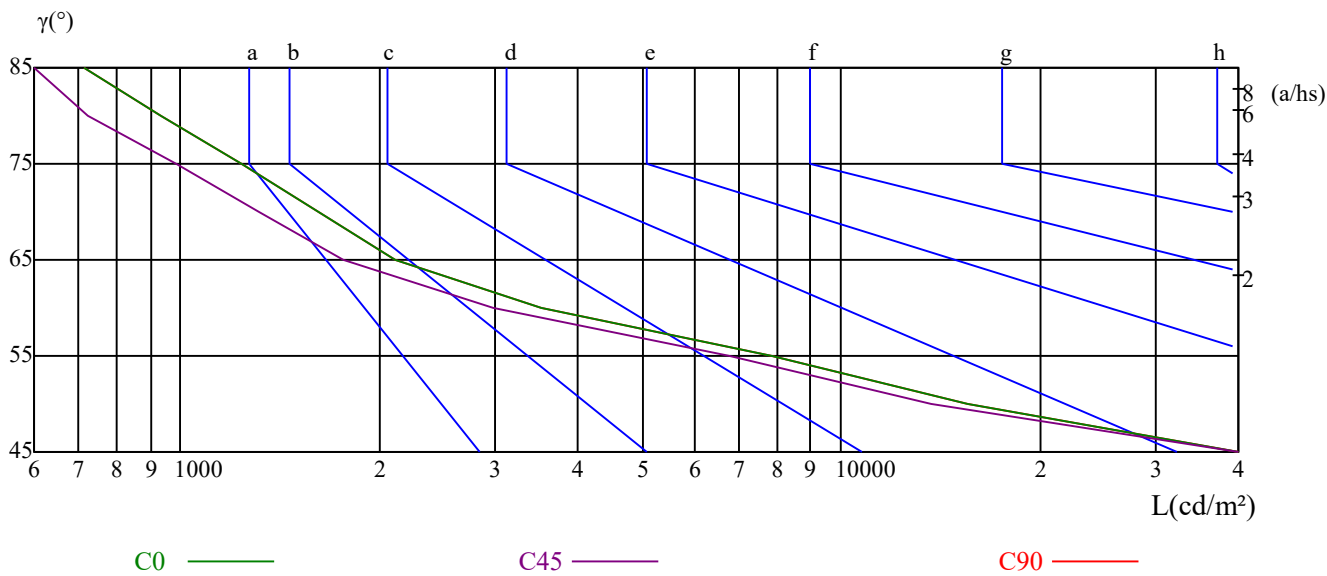
γ	45	50	55	60	65	70	75	80	85
C0	78666	15603	7865	3508	2113	1616	1238	936	712
C45	69828	13657	6781	2975	1759	1317	985	722	529
C90	78666	15603	7865	3508	2113	1616	1238	936	712

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
4106	4106	4106	3271	3271	3271	4292	4292	4292

Glare Table

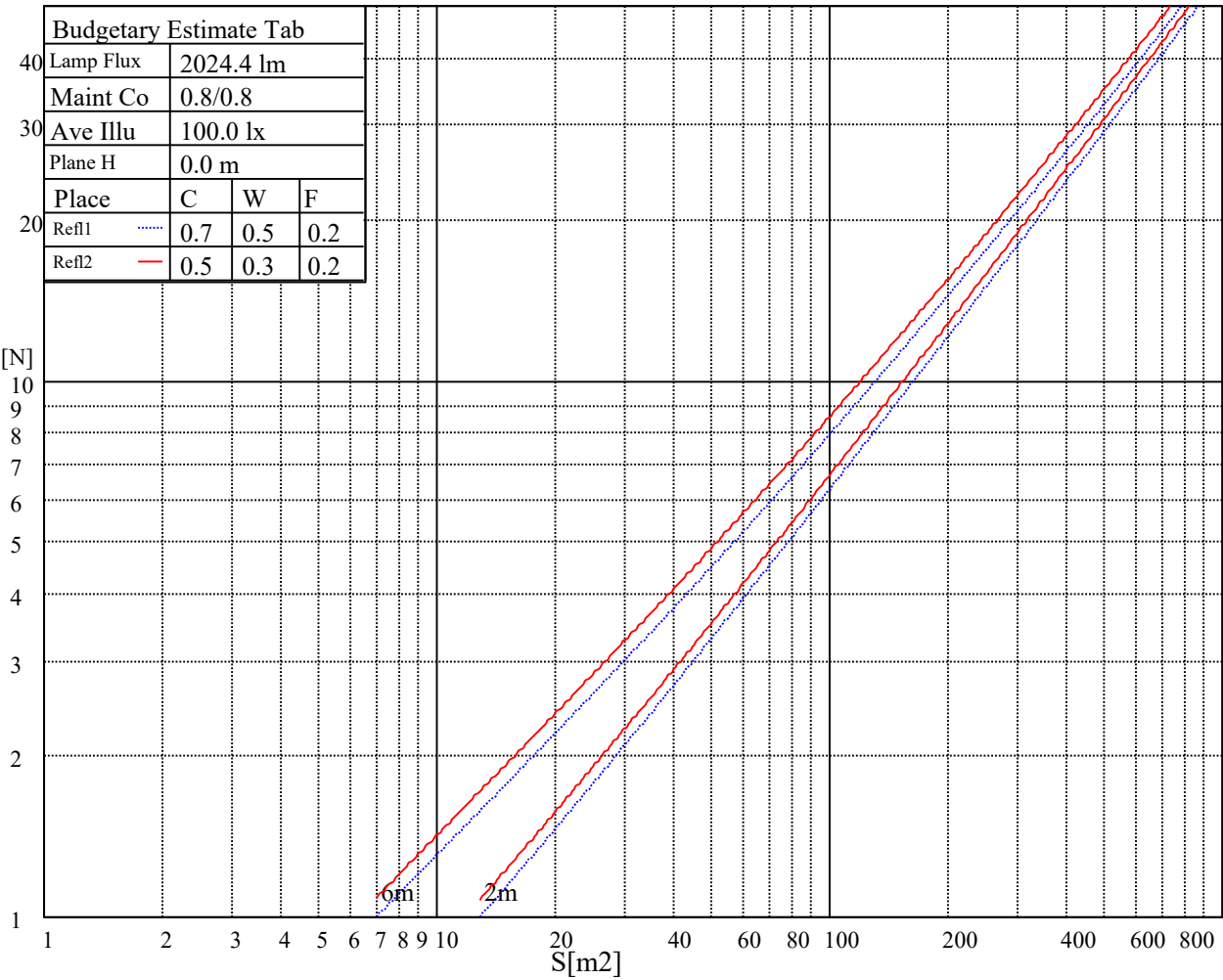
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

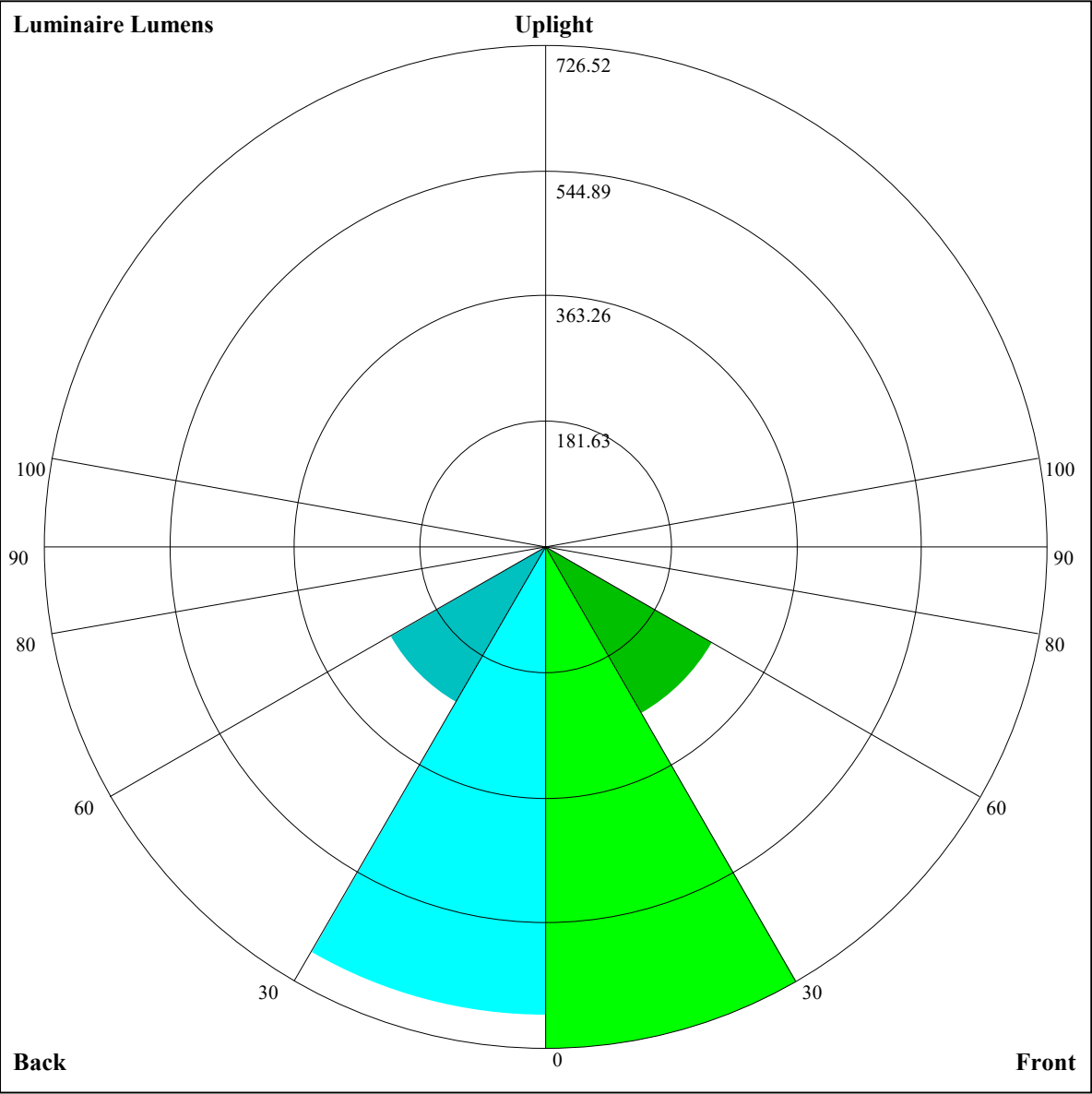


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	22.66	23.67	23.03	23.98	24.30	22.55	23.55	22.91	23.86	24.18
	3H	22.47	23.35	22.85	23.69	24.04	22.35	23.24	22.73	23.57	23.92
	4H	22.36	23.19	22.76	23.54	23.91	22.25	23.07	22.65	23.42	23.79
	6H	22.28	23.03	22.69	23.40	23.80	22.16	22.91	22.58	23.29	23.69
	8H	22.20	22.92	22.62	23.30	23.71	22.09	22.80	22.51	23.19	23.59
	12H	22.13	22.81	22.56	23.20	23.62	22.01	22.69	22.44	23.09	23.50
4H	2H	22.37	23.19	22.77	23.54	23.91	22.25	23.07	22.65	23.43	23.79
	3H	22.13	22.81	22.56	23.21	23.63	22.02	22.70	22.44	23.09	23.51
	4H	22.06	22.65	22.50	23.07	23.52	21.94	22.53	22.38	22.95	23.40
	6H	21.92	22.43	22.39	22.89	23.34	21.80	22.32	22.28	22.77	23.22
	8H	21.86	22.34	22.34	22.80	23.27	21.74	22.22	22.23	22.68	23.15
	12H	21.81	22.25	22.30	22.70	23.22	21.69	22.13	22.18	22.58	23.10
8H	4H	21.86	22.34	22.34	22.79	23.27	21.74	22.22	22.23	22.68	23.15
	6H	21.70	22.09	22.21	22.57	23.08	21.58	21.98	22.09	22.46	22.97
	8H	21.68	22.01	22.22	22.54	23.03	21.57	21.90	22.10	22.42	22.92
	12H	21.63	21.88	22.17	22.40	22.92	21.51	21.77	22.05	22.29	22.81
12H	4H	21.80	22.25	22.29	22.70	23.22	21.69	22.13	22.18	22.58	23.10
	6H	21.68	22.01	22.22	22.54	23.03	21.57	21.90	22.10	22.42	22.92
	8H	21.63	21.88	22.17	22.40	22.92	21.51	21.77	22.05	22.29	22.81
Variation with the observer position at spacings:											
S = 1.0H		3.3/-13.2					3.3/-13.2				
S = 1.5H		5.4/-16.5					5.4/-16.5				
S = 2.0H		7.5/-17.0					7.5/-17.0				
Standard tables:		BK0					BK0				
Uncorrected UGR		3.0					3.0				

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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.03	1.03	1.03	0.98	0.98	0.98	0.96
1	1.07	1.05	1.03	1.05	1.03	1.01	1.01	1.00	0.98	0.98	0.97	0.95	0.95	0.94	0.93	0.91
2	1.01	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	0.89	0.86	0.91	0.87	0.85	0.88	0.86	0.83	0.86	0.84	0.82	0.81
4	0.89	0.84	0.80	0.88	0.83	0.80	0.86	0.82	0.79	0.84	0.81	0.78	0.82	0.80	0.77	0.76
5	0.84	0.79	0.75	0.83	0.79	0.75	0.82	0.77	0.74	0.80	0.76	0.74	0.79	0.76	0.73	0.72
6	0.80	0.75	0.71	0.79	0.74	0.71	0.78	0.73	0.70	0.76	0.73	0.70	0.75	0.72	0.69	0.68
7	0.76	0.71	0.67	0.75	0.70	0.67	0.74	0.70	0.66	0.73	0.69	0.66	0.72	0.68	0.66	0.64
8	0.72	0.67	0.63	0.72	0.67	0.63	0.71	0.66	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.61
9	0.69	0.64	0.60	0.69	0.64	0.60	0.68	0.63	0.60	0.67	0.63	0.60	0.66	0.62	0.60	0.59
10	0.66	0.61	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.60	0.57	0.64	0.60	0.57	0.56



Luminaire Lumens:

FL=726.52,FM=278.39,FH=3.3,FVH=0.48

BL=679.76,BM=259.59,BH=3.67,BVH=0.53

UL=0,UH=0

BUG Rating:B2-U0-G0

Intensity data(cd)

Appendix Page: 12 Total:14

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	6038.38	6031.07	5991.69	5894.38	5818.44	5565.32	5261.01	5076.51	4722.13
45.0	5990.57	6021.51	6037.26	6013.07	5949.51	5842.63	5757.69	5522.01	5258.19
90.0	6023.76	6005.19	5914.07	5780.76	5686.82	5479.26	5210.38	4890.88	4435.82
135.0	6004.07	5994.51	5940.51	5845.44	5763.88	5538.88	5295.32	4994.94	4645.07
180.0	6038.38	6000.13	5959.07	5818.44	5662.63	5444.94	5163.13	4967.38	4512.88
225.0	5990.57	5853.88	5669.94	5543.38	5285.19	4979.76	4606.26	4087.07	3821.01
270.0	6023.76	6004.07	5936.57	5834.19	5685.69	5568.69	5264.94	4948.26	4573.07
315.0	6004.07	5958.51	5919.13	5816.19	5659.26	5405.01	5126.57	4786.82	4390.26
360.0	6038.38	6031.07	5991.69	5894.38	5818.44	5565.32	5261.01	5076.51	4722.13
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4319.94	3878.38	3346.82	3084.69	2679.69	2319.13	1961.38	1729.63	1613.19
45.0	4942.07	4493.19	4073.01	3808.63	3188.19	2931.13	2464.82	2134.63	1857.88
90.0	4186.07	3749.01	3314.76	2892.32	2426.01	2224.63	1834.82	1587.88	1486.07
135.0	4404.32	3718.63	3276.51	3018.88	2550.32	2202.69	1915.26	1693.63	1581.13
180.0	4084.26	3639.32	3107.19	2692.07	2318.01	2006.94	1852.26	1596.88	1424.76
225.0	3369.32	2934.51	2536.26	2121.13	1949.57	1706.57	1511.94	1326.32	1075.50
270.0	4152.88	3884.57	3347.38	2921.01	2525.57	2126.19	1850.01	1627.82	1453.44
315.0	3867.69	3600.51	3167.94	2754.51	2387.76	2015.38	1860.13	1570.44	1382.57
360.0	4319.94	3878.38	3346.82	3084.69	2679.69	2319.13	1961.38	1729.63	1613.19
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1392.69	1111.78	1077.36	1077.36	1030.39	947.36	888.08	838.41	797.96
45.0	1640.76	1528.82	1344.32	1220.57	1114.26	1022.57	933.13	871.26	819.51
90.0	1342.07	1090.69	1090.69	1040.06	967.39	906.19	844.20	817.43	779.57
135.0	1395.51	1266.13	1163.76	1076.57	1031.57	953.38	880.26	853.26	808.26
180.0	1293.13	1185.13	1123.82	1020.88	951.69	893.76	835.82	797.01	765.51
225.0	1075.50	1026.56	953.04	914.96	837.17	783.34	760.56	728.33	699.69
270.0	1366.26	1214.94	1115.38	1036.07	964.63	928.63	866.19	800.38	777.88
315.0	1306.07	1079.27	1079.27	1046.59	967.61	914.74	867.88	817.03	795.77
360.0	1392.69	1111.78	1077.36	1077.36	1030.39	947.36	888.08	838.41	797.96
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	755.27	737.89	714.54	693.51	676.46	657.68	649.86	631.80	623.59
45.0	789.69	740.19	709.26	680.57	656.38	642.88	624.32	604.63	593.94
90.0	747.84	720.11	695.08	684.79	669.83	657.23	644.96	632.64	620.83
135.0	775.07	744.69	717.69	703.07	678.88	661.44	645.13	630.51	612.51
180.0	737.38	722.76	697.44	679.44	664.82	653.01	645.69	630.51	602.94
225.0	673.93	639.45	626.74	608.29	591.98	578.19	559.13	538.03	506.81
270.0	739.07	713.76	692.38	671.57	662.01	643.44	630.51	619.26	605.76
315.0	763.71	738.68	714.66	687.83	676.86	659.42	633.71	627.92	608.23
360.0	755.27	737.89	714.54	693.51	676.46	657.68	649.86	631.80	623.59
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	602.10	572.40	536.79	496.52	443.64	416.03	367.20	317.48	267.58
45.0	579.88	570.32	548.38	507.32	485.38	438.69	395.94	354.32	311.57
90.0	597.54	558.79	536.79	491.18	446.29	398.31	339.92	308.08	238.78
135.0	600.13	556.26	533.19	482.57	437.57	391.44	343.07	314.94	314.94
180.0	584.94	544.44	504.51	461.76	415.63	385.82	326.19	305.94	305.94
225.0	464.01	440.44	398.76	356.91	314.89	264.94	239.06	201.38	164.64
270.0	594.51	549.51	514.63	488.19	437.57	390.88	343.63	293.01	293.01
315.0	593.44	545.06	495.62	468.73	423.28	374.51	326.59	268.31	240.24
360.0	602.10	572.40	536.79	496.52	443.64	416.03	367.20	317.48	267.58

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	208.74	180.51	120.99	78.41	60.24	36.51	25.76	23.29	21.15
45.0	303.13	286.26	186.19	160.99	115.71	82.74	56.14	40.16	35.44
90.0	185.12	166.95	119.25	81.28	52.76	31.16	26.94	24.92	22.89
135.0	200.81	173.81	121.16	81.45	48.99	27.62	21.43	17.55	15.53
180.0	181.07	138.38	101.36	68.68	52.76	30.60	25.59	24.02	22.44
225.0	132.41	93.94	66.88	48.66	39.26	37.07	33.75	30.15	26.21
270.0	197.49	152.72	129.21	84.77	57.21	37.46	30.09	28.97	26.78
315.0	193.22	149.12	98.72	62.72	45.23	22.61	18.68	17.72	16.14
360.0	208.74	180.51	120.99	78.41	60.24	36.51	25.76	23.29	21.15
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	19.86	17.55	14.91	12.21	9.34	8.21	6.92	5.57	5.18
45.0	30.60	27.56	24.08	19.29	15.64	13.73	9.84	8.55	6.58
90.0	20.53	17.16	15.47	12.88	9.11	8.04	6.69	6.08	5.01
135.0	14.74	12.99	10.74	8.94	7.26	6.53	5.57	5.18	4.84
180.0	21.32	18.28	14.74	13.22	10.46	9.00	8.04	7.20	6.64
225.0	21.83	19.69	16.54	13.73	11.76	10.18	9.39	8.21	7.09
270.0	24.47	21.43	17.61	16.48	12.26	10.35	9.62	8.33	7.48
315.0	14.29	12.26	9.84	8.72	7.09	6.13	5.74	5.12	4.73
360.0	19.86	17.55	14.91	12.21	9.34	8.21	6.92	5.57	5.18
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	4.28	3.71	3.43	2.98	2.87	2.64	2.42	2.25	2.08
45.0	5.40	4.67	3.94	3.71	3.38	3.15	3.04	2.93	2.81
90.0	4.28	4.05	3.71	3.32	3.09	2.87	2.70	2.59	2.42
135.0	4.44	4.22	3.88	3.60	3.26	2.98	2.93	2.70	2.48
180.0	5.74	5.18	4.67	4.28	3.94	3.77	3.49	3.38	3.09
225.0	6.64	6.08	5.68	5.34	5.01	4.84	4.56	4.22	3.94
270.0	6.64	6.02	5.68	5.06	4.67	4.39	3.94	3.77	3.43
315.0	4.28	3.94	3.71	3.43	3.15	2.87	2.70	2.59	2.48
360.0	4.28	3.71	3.43	2.98	2.87	2.64	2.42	2.25	2.08
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.03	1.86	1.80	1.63	1.46	1.35	1.24	1.13	1.07
45.0	2.76	2.70	2.70	2.64	2.42	2.31	2.19	2.08	1.97
90.0	2.25	2.14	1.91	1.69	1.58	1.46	1.41	1.24	1.18
135.0	2.42	2.19	1.97	1.80	1.58	1.46	1.35	1.29	1.18
180.0	2.87	2.70	2.48	2.31	2.03	1.80	1.69	1.63	1.52
225.0	3.71	3.49	3.04	2.76	2.59	2.42	2.19	2.03	1.86
270.0	3.09	2.98	2.64	2.36	2.03	1.80	1.74	1.63	1.52
315.0	2.25	2.08	1.86	1.74	1.41	1.29	1.24	1.13	1.07
360.0	2.03	1.86	1.80	1.63	1.46	1.35	1.24	1.13	1.07
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.96	0.90	0.84	0.84	0.73	0.68	0.62	0.56	0.51
45.0	1.74	1.69	1.46	1.41	1.18	1.07	0.90	0.73	0.62
90.0	1.13	1.01	0.96	0.84	0.79	0.68	0.56	0.45	0.39
135.0	1.07	1.01	1.01	0.96	0.90	0.79	0.73	0.73	0.62
180.0	1.46	1.35	1.29	1.18	1.07	1.01	0.90	0.79	0.73
225.0	1.80	1.58	1.46	1.24	1.13	1.01	0.90	0.79	0.68
270.0	1.35	1.24	1.07	1.01	0.90	0.79	0.73	0.62	0.56
315.0	0.96	0.96	0.90	0.84	0.79	0.73	0.68	0.62	0.56
360.0	0.96	0.90	0.84	0.84	0.73	0.68	0.62	0.56	0.51

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	0.45
45.0	0.39
90.0	0.39
135.0	0.56
180.0	0.62
225.0	0.56
270.0	0.51
315.0	0.51
360.0	0.45