



NATA LIGHTING CO.,LTD
www.nata.cn
Email:info@nata.cn
Tel:+86 0750-377 0000(10 lines) Fax:+86 0750-377 1111
Address:380JinOu Road,Gaoxin Zone,Jiang Men City,Guangdong,China

Nata

Client: NT

LumCAT: 1-1764-LM

Luminaire: 92.70.492.00 LED HOLDER

Report No: 20251103-B008

Ballast type: DC

Test No: 20251103-C008

Voltage(V): 34.590

LampCAT: PHILIPS SLM 1203 L09 1313 G8N

Current(A): 0.217

Lamp flux(lm): 1314.5

Power (W): 7.506

Number of Lamps: 1

PF: 0.000

Length(mm): 45

Width(mm): 45

Phm Type: C

Height(mm): 19

Photometric Results

Lumens(lm): 1260.31, Efficiency(%): 95.88% , Luminous Efficacy(lm/W): 167.91

Central intensity(cd): 2154.768, Maximum intensity(cd): 2154.768

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=38.6

[C90/270]Total=38.6

Field angle(10%Imax): [C0/180]Total=83.0

[C90/270]Total=83.0

Maximum s/h(1/2): C0_180=0.62 C90_270=0.62

Maximum s/h(1/4): C0_180=0.66 C90_270=0.66

Up flux rate of lamp(%): 0.00%

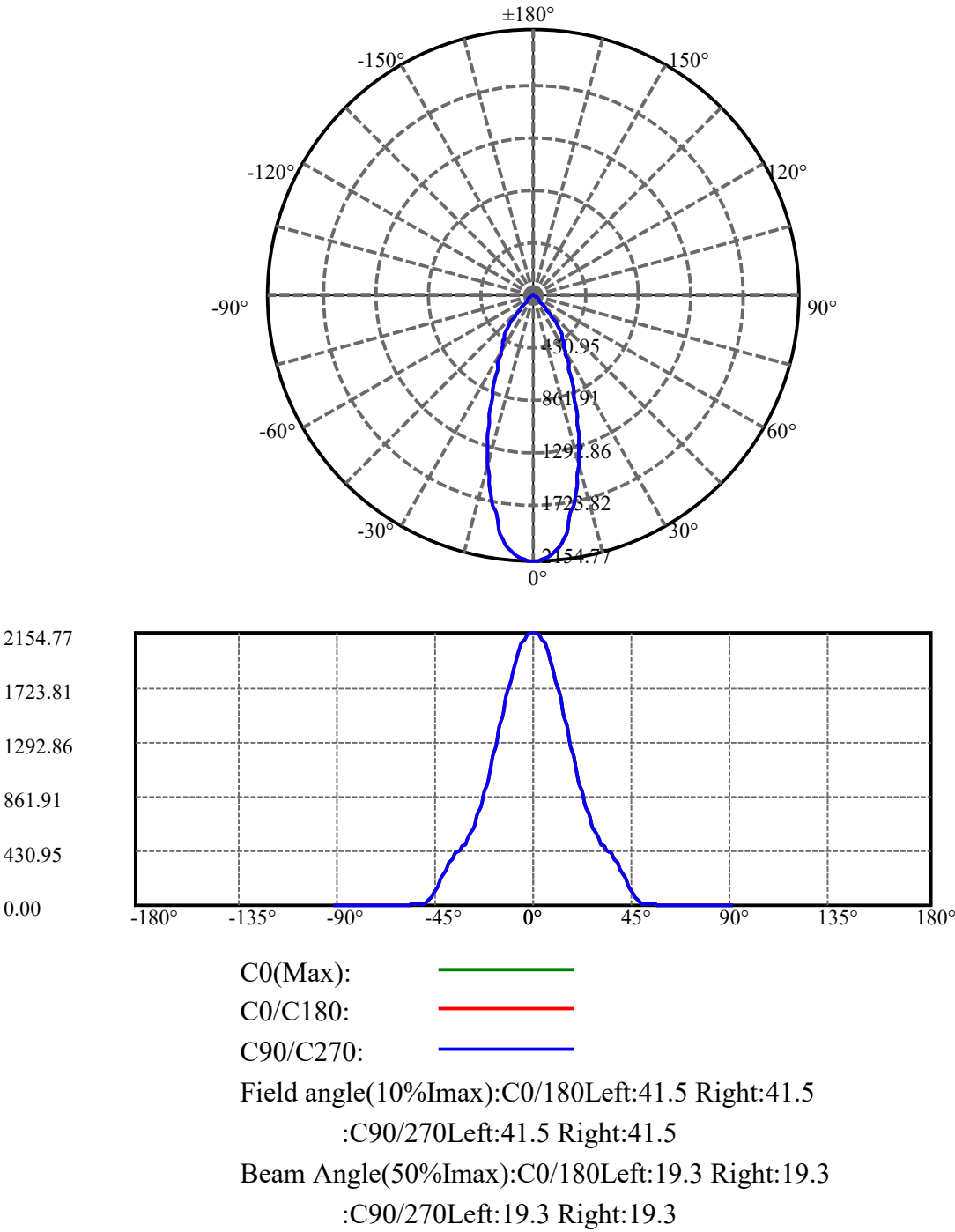
Down flux rate of lamp(%): 95.88%

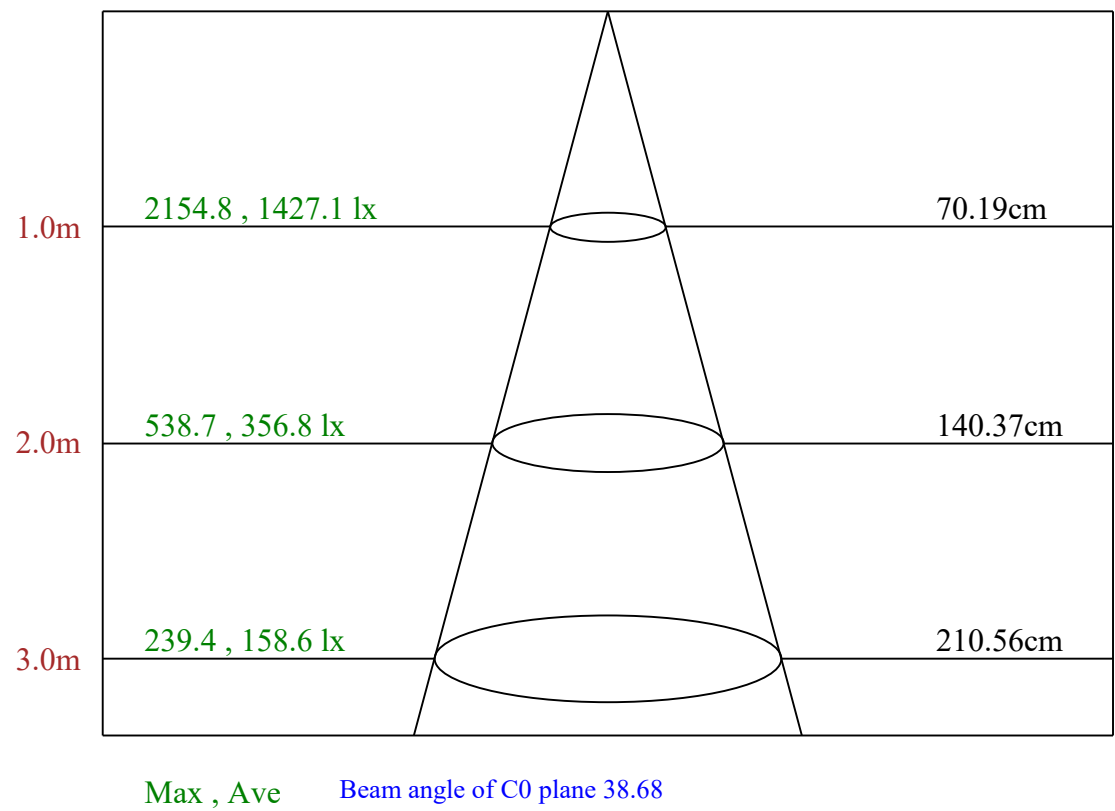
Up flux rate of LUM(%): - -

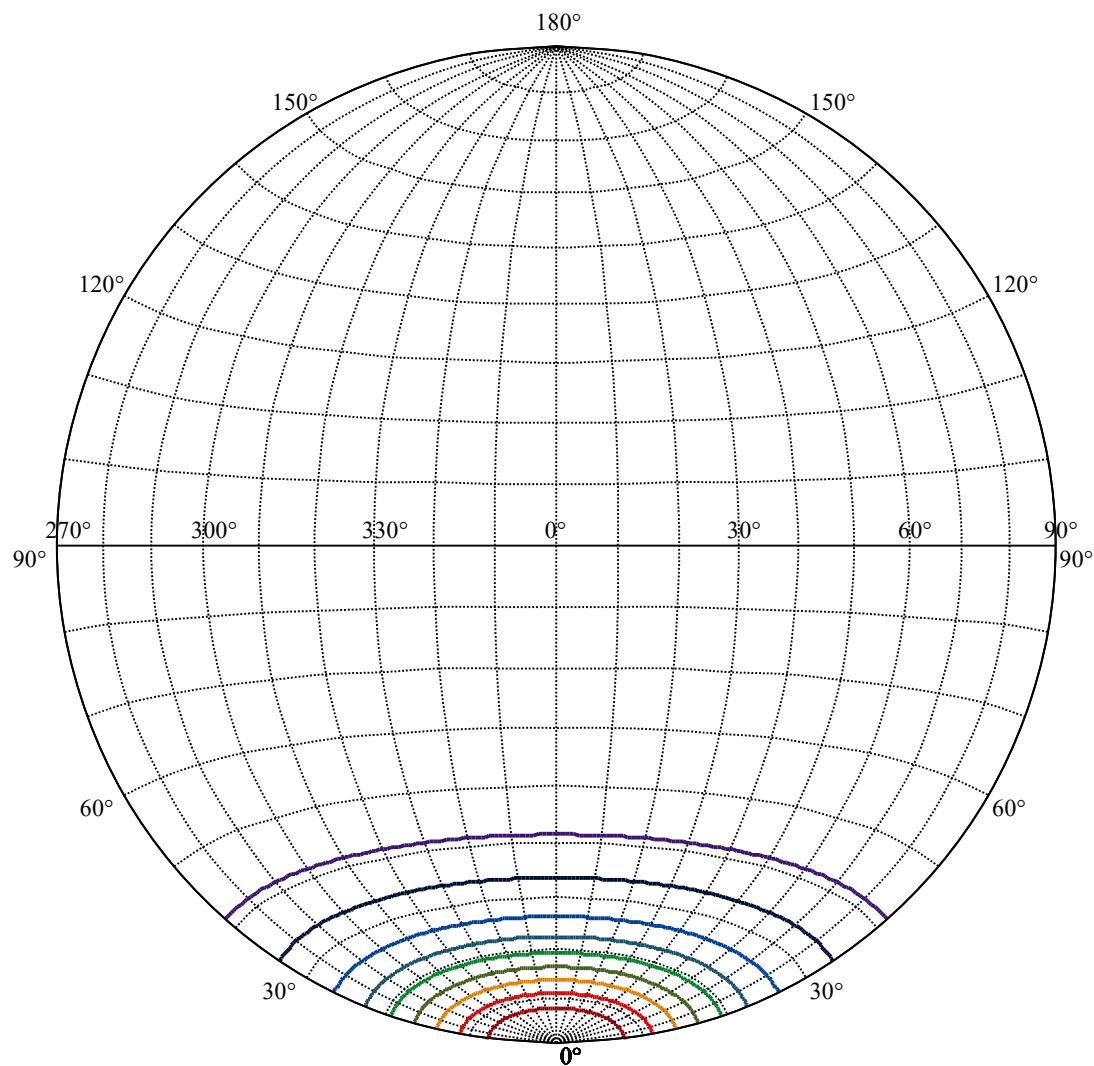
Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.319%





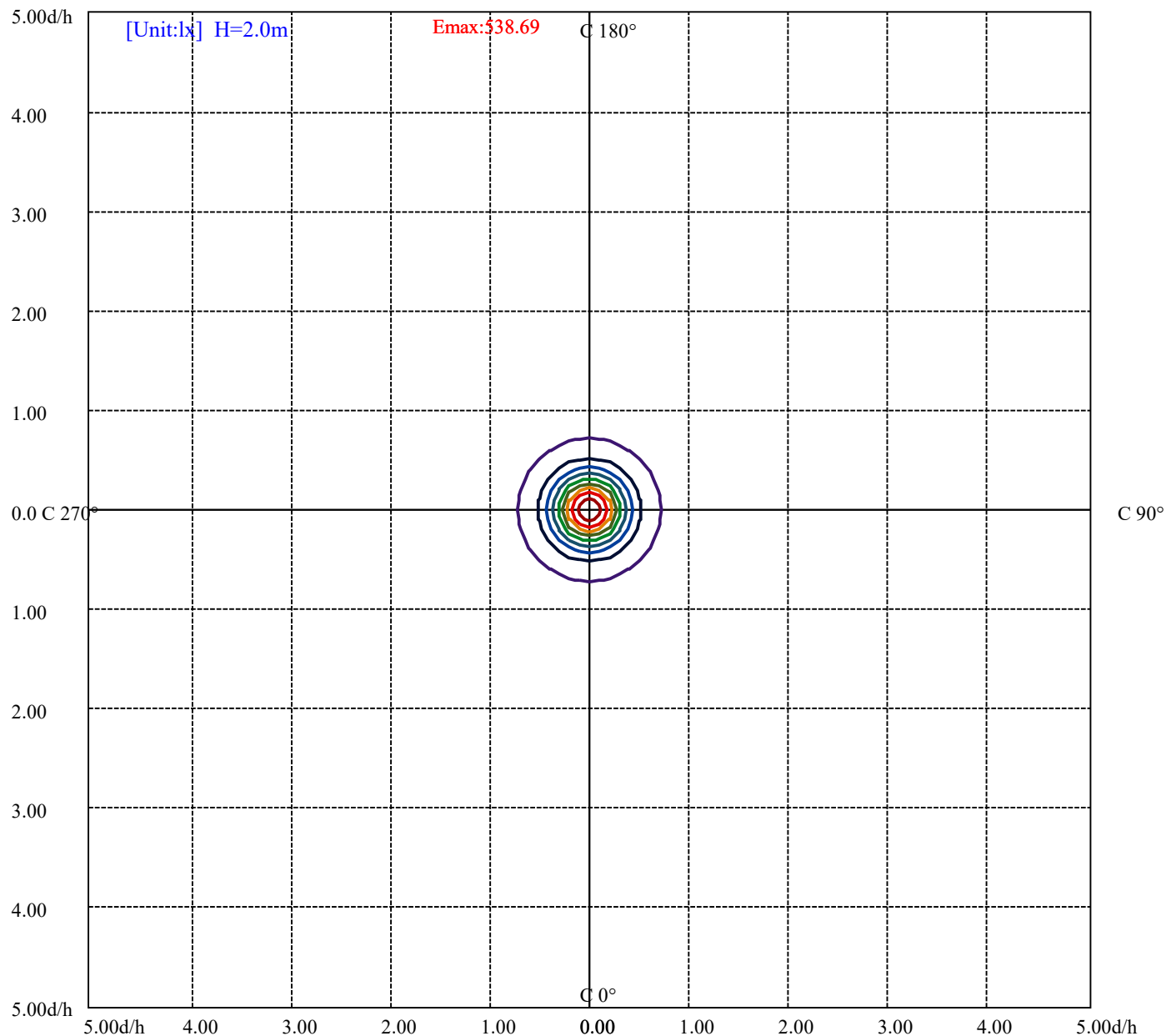


House

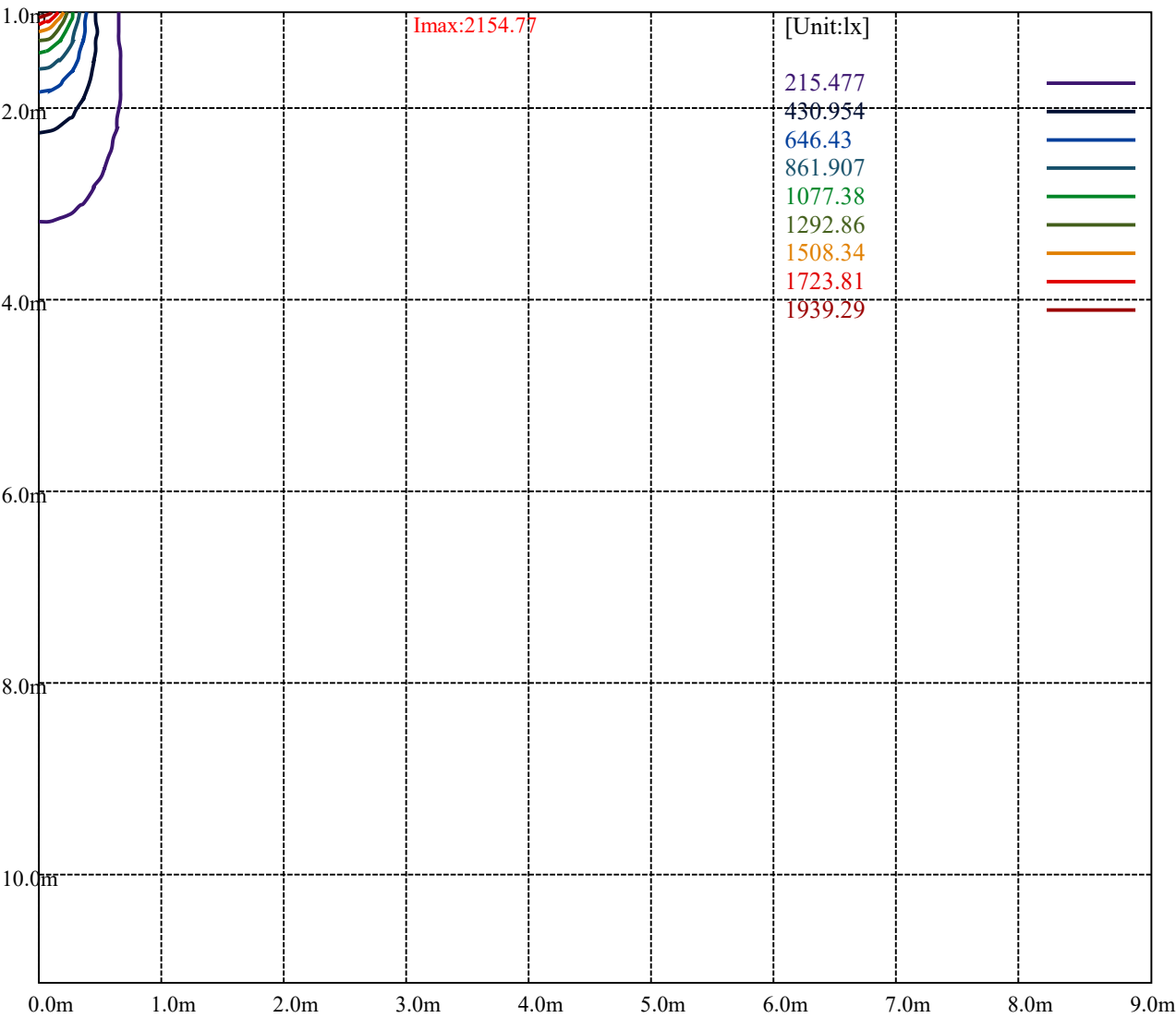
[Unit:cd]

Road

Imax:2154.77	
(10%Imax) 215.477	
(20%Imax) 430.954	
(30%Imax) 646.43	
(40%Imax) 861.907	
(50%Imax) 1077.38	
(60%Imax) 1292.86	
(70%Imax) 1508.34	
(80%Imax) 1723.81	
(90%Imax) 1939.29	



(10%Emax)	53.86925	—
(20%Emax)	107.7385	—
(30%Emax)	161.6075	—
(40%Emax)	215.4767	—
(50%Emax)	269.345	—
(60%Emax)	323.215	—
(70%Emax)	377.085	—
(80%Emax)	430.9525	—
(90%Emax)	484.8225	—



Luminance Table

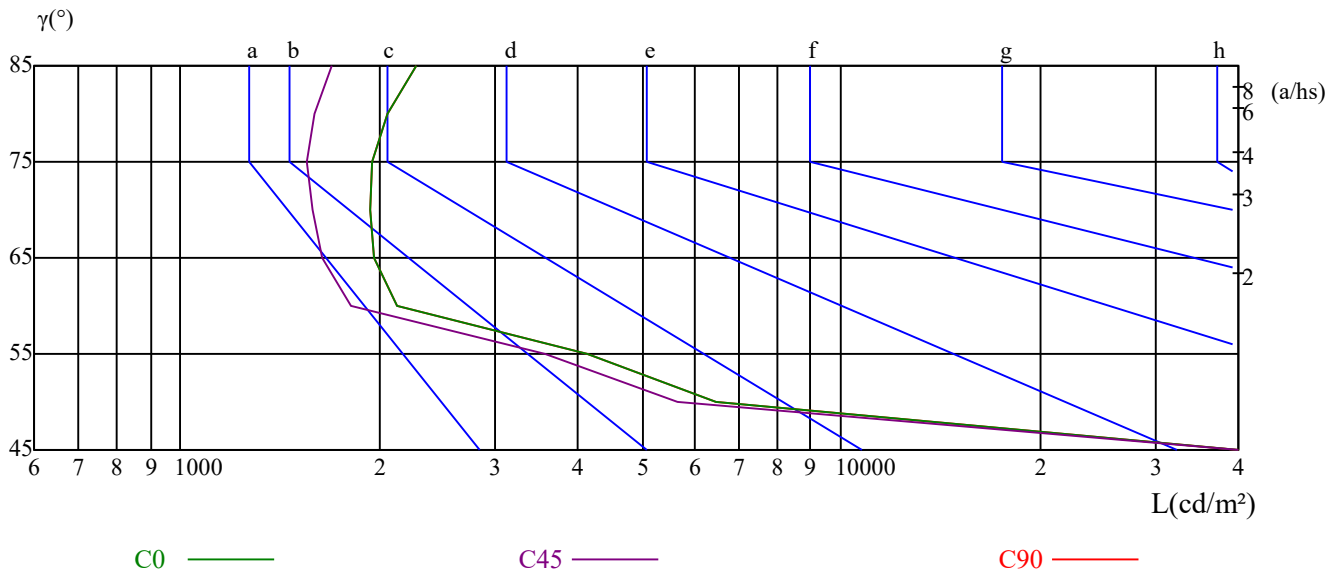
γ	45	50	55	60	65	70	75	80	85
C0	47960	6454	4122	2131	1961	1936	1946	2056	2272
C45	42708	5668	3567	1814	1638	1583	1552	1591	1691
C90	47960	6454	4122	2131	1961	1936	1946	2056	2272

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3736	3736	3736	5012	5012	5012	13236	13236	13236

Glare Table

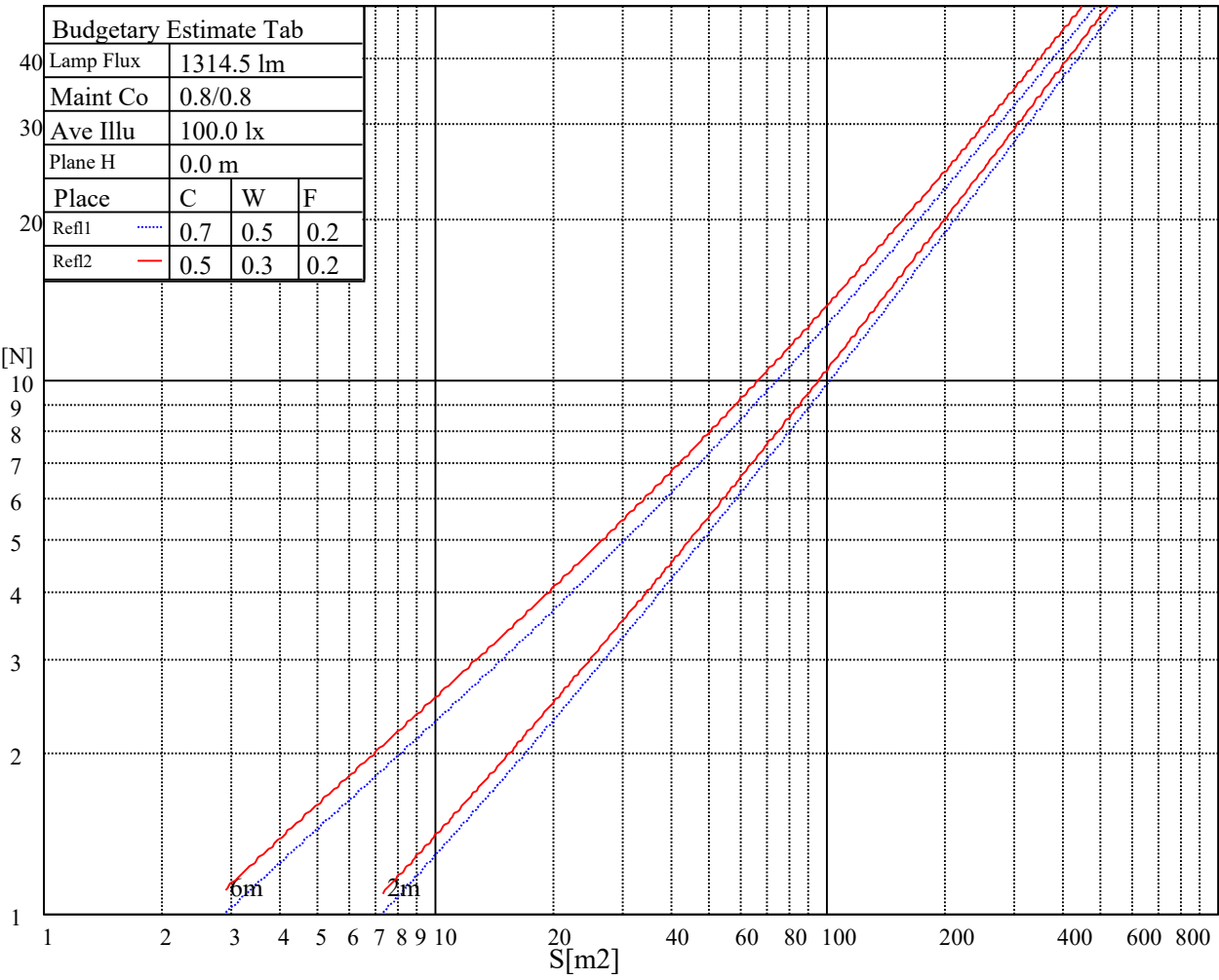
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

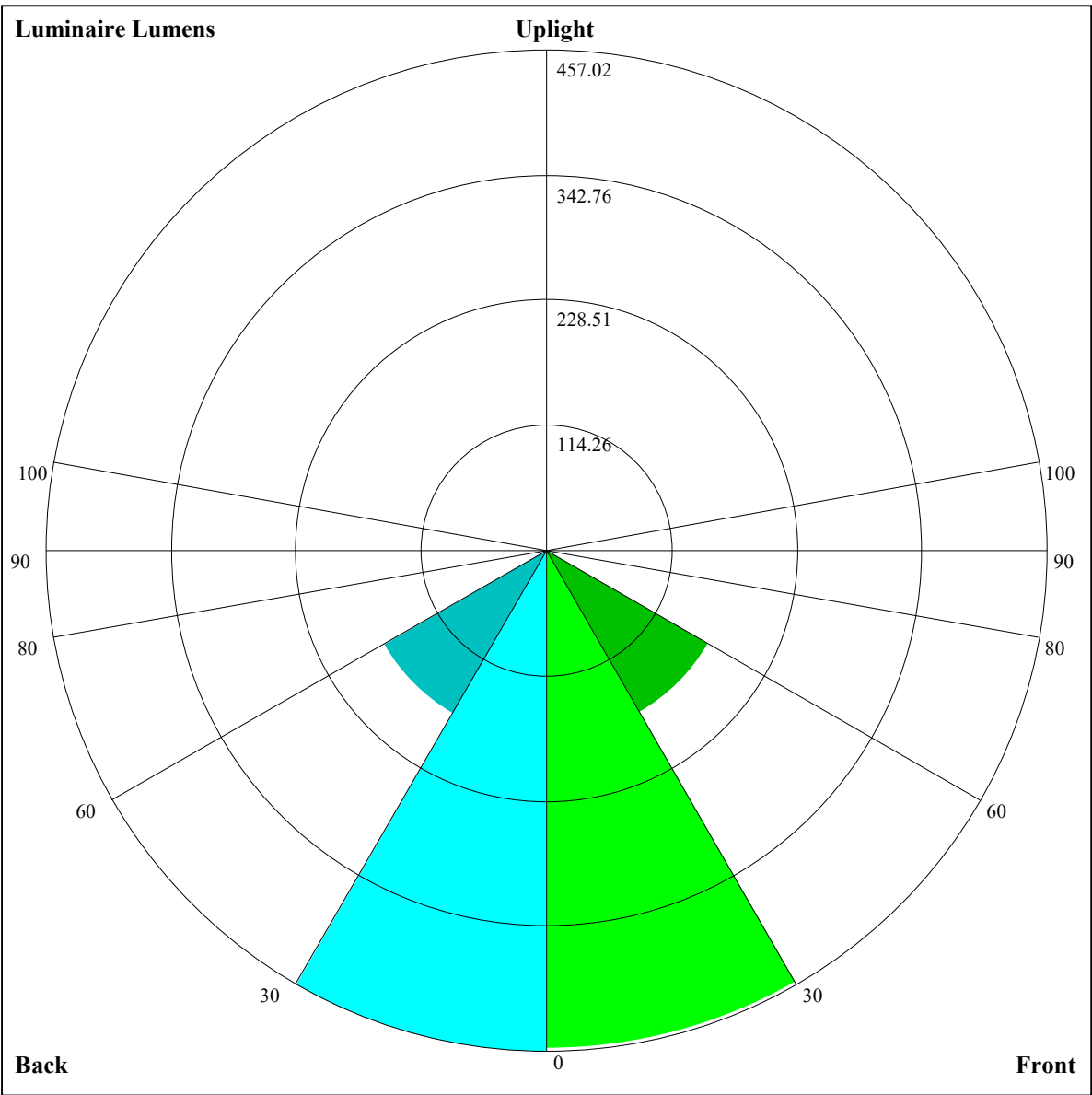


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	21.47	22.45	21.83	22.76	23.08	21.34	22.32	21.70	22.63	22.95
	3H	21.27	22.14	21.66	22.48	22.83	21.14	22.01	21.53	22.35	22.70
	4H	21.17	21.98	21.57	22.33	22.70	21.04	21.85	21.44	22.20	22.57
	6H	21.10	21.83	21.51	22.21	22.61	20.97	21.70	21.38	22.08	22.48
	8H	21.03	21.73	21.45	22.12	22.52	20.90	21.60	21.32	21.99	22.39
	12H	20.97	21.63	21.39	22.03	22.44	20.84	21.50	21.26	21.90	22.32
4H	2H	21.16	21.97	21.56	22.32	22.69	21.03	21.84	21.43	22.19	22.56
	3H	20.93	21.60	21.35	21.99	22.41	20.80	21.47	21.23	21.87	22.28
	4H	20.86	21.44	21.30	21.87	22.32	20.73	21.31	21.17	21.74	22.19
	6H	20.74	21.25	21.21	21.70	22.16	20.61	21.12	21.08	21.57	22.03
	8H	20.69	21.17	21.18	21.63	22.10	20.57	21.04	21.05	21.50	21.97
	12H	20.66	21.10	21.15	21.55	22.07	20.53	20.97	21.02	21.42	21.94
8H	4H	20.66	21.14	21.15	21.60	22.07	20.54	21.01	21.02	21.47	21.94
	6H	20.53	20.92	21.04	21.40	21.91	20.41	20.80	20.91	21.27	21.79
	8H	20.54	20.87	21.07	21.39	21.89	20.41	20.74	20.95	21.26	21.76
	12H	20.52	20.77	21.06	21.29	21.81	20.39	20.64	20.93	21.16	21.68
12H	4H	20.61	21.05	21.10	21.50	22.02	20.48	20.92	20.97	21.37	21.89
	6H	20.52	20.85	21.05	21.37	21.87	20.39	20.72	20.93	21.24	21.74
	8H	20.49	20.74	21.03	21.26	21.79	20.37	20.62	20.91	21.14	21.66
Variation with the observer position at spacings:											
S = 1.0H		3.6/-14.1					3.6/-14.1				
S = 1.5H		6.2/-13.6					6.2/-13.6				
S = 2.0H		8.2/-12.5					8.2/-12.5				
Standard tables:		BK0					BK0				
Uncorrected UGR		2.2					2.2				

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	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.96
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.99	0.97	0.97	0.96	0.94	0.94	0.93	0.92	0.90
2	0.99	0.96	0.92	0.98	0.94	0.91	0.95	0.92	0.89	0.92	0.89	0.87	0.89	0.87	0.86	0.84
3	0.93	0.88	0.85	0.92	0.87	0.84	0.89	0.86	0.83	0.87	0.84	0.81	0.85	0.82	0.80	0.79
4	0.87	0.82	0.78	0.86	0.81	0.78	0.84	0.80	0.77	0.82	0.79	0.76	0.80	0.78	0.75	0.74
5	0.82	0.77	0.73	0.81	0.76	0.72	0.79	0.75	0.72	0.78	0.74	0.71	0.76	0.73	0.71	0.69
6	0.77	0.72	0.68	0.77	0.71	0.68	0.75	0.71	0.67	0.74	0.70	0.67	0.73	0.69	0.66	0.65
7	0.73	0.68	0.64	0.72	0.67	0.64	0.71	0.67	0.63	0.70	0.66	0.63	0.69	0.65	0.63	0.61
8	0.69	0.64	0.60	0.69	0.63	0.60	0.68	0.63	0.60	0.67	0.62	0.59	0.66	0.62	0.59	0.58
9	0.66	0.60	0.57	0.65	0.60	0.57	0.64	0.60	0.56	0.63	0.59	0.56	0.63	0.59	0.56	0.55
10	0.62	0.57	0.54	0.62	0.57	0.54	0.61	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.52



Luminaire Lumens:

FL=454.83,FM=170.21,FH=3,FVH=1.28

BL=457.02,BM=171.62,BH=3.01,BVH=1.28

UL=0,UH=0

BUG Rating:B1-U0-G0

NT Nata 1-1764-LM

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	2153.05	2146.16	2134.96	2118.60	2094.49	2054.01	2015.26	1968.75	1914.50
45.0	2155.63	2152.18	2146.16	2129.79	2110.85	2083.29	2048.84	1999.76	1949.81
90.0	2150.46	2150.46	2134.10	2114.29	2085.87	2047.98	2010.09	1961.86	1889.52
135.0	2159.94	2154.77	2155.63	2142.71	2126.35	2099.65	2066.93	2031.62	1975.64
180.0	2153.05	2153.05	2147.88	2133.24	2116.02	2082.43	2047.12	2003.20	1939.47
225.0	2155.63	2152.18	2141.85	2119.46	2091.90	2060.90	2007.51	1957.56	1900.72
270.0	2150.46	2161.66	2159.07	2146.16	2133.24	2113.43	2081.57	2033.34	1989.42
315.0	2159.94	2154.77	2147.88	2129.79	2099.65	2072.96	2016.98	1970.48	1917.94
360.0	2153.05	2146.16	2134.96	2118.60	2094.49	2054.01	2015.26	1968.75	1914.50
C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1809.43	1702.47	1702.47	1611.96	1538.42	1464.70	1371.00	1297.80	1227.88
45.0	1897.27	1836.13	1756.04	1689.73	1616.53	1524.38	1449.46	1372.81	1279.81
90.0	1710.83	1710.83	1674.06	1603.09	1527.31	1429.13	1356.62	1276.79	1206.26
135.0	1916.22	1859.38	1781.88	1713.84	1640.64	1563.14	1487.35	1386.59	1310.81
180.0	1880.91	1819.77	1755.18	1663.03	1586.39	1511.46	1433.96	1340.95	1266.03
225.0	1718.06	1718.06	1681.63	1607.57	1532.99	1437.92	1362.74	1288.93	1194.46
270.0	1942.92	1869.72	1811.16	1724.18	1650.98	1573.47	1498.55	1402.09	1325.45
315.0	1857.66	1705.66	1705.66	1634.79	1544.19	1468.23	1390.21	1297.55	1222.02
360.0	1809.43	1702.47	1702.47	1611.96	1538.42	1464.70	1371.00	1297.80	1227.88
C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1141.93	1076.31	1012.92	952.38	876.77	818.12	761.20	709.27	650.80
45.0	1208.33	1139.43	1058.48	995.61	936.19	879.35	809.60	757.07	707.12
90.0	1119.71	1052.11	988.38	925.86	852.66	796.51	745.53	685.67	644.34
135.0	1235.02	1145.46	1079.15	1007.67	930.16	871.60	799.26	745.01	695.92
180.0	1191.96	1104.99	1039.54	958.58	896.58	838.02	779.46	712.29	664.06
225.0	1123.24	1054.69	974.34	912.60	851.80	781.18	728.82	680.68	636.41
270.0	1247.94	1171.30	1083.46	1016.28	950.83	872.47	812.18	753.62	691.62
315.0	1149.16	1062.61	995.36	931.46	869.19	796.08	740.19	686.19	641.15
360.0	1141.93	1076.31	1012.92	952.38	876.77	818.12	761.20	709.27	650.80
C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	610.32	573.20	533.85	506.12	481.40	455.39	437.40	417.93	403.29
45.0	661.48	610.67	576.22	546.08	512.49	488.38	462.54	443.60	434.98
90.0	598.01	565.28	537.21	510.85	480.97	460.39	440.50	424.48	400.62
135.0	641.67	602.05	568.47	538.33	509.91	479.77	459.10	440.15	436.71
180.0	621.86	583.97	542.63	511.63	486.66	463.40	438.43	434.12	434.12
225.0	587.41	552.71	521.79	494.06	464.78	444.11	426.37	408.72	392.79
270.0	646.84	605.50	561.58	528.85	502.16	473.74	453.07	434.98	434.98
315.0	591.89	556.58	523.51	487.60	464.09	438.77	422.50	409.15	388.39
360.0	610.32	573.20	533.85	506.12	481.40	455.39	437.40	417.93	403.29
C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	384.00	359.89	333.45	295.30	263.95	230.54	196.95	155.01	123.75
45.0	434.98	378.40	352.31	323.29	291.34	252.15	219.34	184.64	150.79
90.0	377.03	349.90	320.19	281.09	249.31	209.27	175.51	144.59	106.61
135.0	417.85	382.88	355.50	317.60	286.52	246.73	215.98	183.78	150.19
180.0	385.81	364.80	334.05	306.75	276.87	245.87	204.27	170.34	138.31
225.0	367.73	343.01	315.88	277.90	245.44	212.97	179.99	140.37	109.54
270.0	414.32	375.91	349.21	322.26	284.79	252.93	221.84	181.62	150.88
315.0	367.47	342.84	314.76	279.71	247.85	217.19	186.96	147.26	117.38
360.0	384.00	359.89	333.45	295.30	263.95	230.54	196.95	155.01	123.75

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	86.38	60.63	39.70	22.05	14.12	11.97	10.76	9.99	9.21
45.0	111.95	84.31	59.51	34.10	21.10	12.75	11.63	10.51	9.47
90.0	78.45	54.60	34.02	18.60	13.00	11.88	10.76	9.56	8.78
135.0	113.25	85.95	60.46	39.10	20.50	12.83	11.45	10.33	9.47
180.0	107.65	72.43	49.95	31.26	19.29	12.40	11.37	10.42	9.39
225.0	81.55	56.92	36.77	20.50	13.52	11.63	10.42	9.56	8.53
270.0	113.16	85.00	60.28	39.27	21.96	14.90	13.35	11.88	10.59
315.0	88.96	57.53	36.69	22.65	13.87	12.66	11.45	10.59	9.65
360.0	86.38	60.63	39.70	22.05	14.12	11.97	10.76	9.99	9.21
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	8.53	7.49	6.29	4.22	4.05	3.88	3.79	3.62	3.53
45.0	8.61	7.92	7.15	5.34	4.05	3.88	3.70	3.62	3.53
90.0	8.01	6.89	5.51	4.13	3.96	3.88	3.70	3.62	3.44
135.0	8.61	7.92	7.06	5.77	4.13	3.96	3.79	3.70	3.62
180.0	8.70	7.75	6.63	4.39	4.05	3.96	3.79	3.70	3.53
225.0	7.75	6.63	4.31	3.96	3.88	3.70	3.62	3.53	3.44
270.0	9.65	8.78	7.75	5.34	4.13	3.96	3.79	3.70	3.53
315.0	8.96	8.01	5.17	3.96	3.88	3.79	3.70	3.53	3.36
360.0	8.53	7.49	6.29	4.22	4.05	3.88	3.79	3.62	3.53
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.44	3.36	3.27	3.19	3.10	3.01	2.93	2.93	2.84
45.0	3.36	3.36	3.19	3.10	3.10	2.93	2.93	2.84	2.84
90.0	3.36	3.27	3.19	3.10	3.01	2.93	2.93	2.84	2.76
135.0	3.44	3.36	3.27	3.19	3.10	3.01	3.01	3.01	2.93
180.0	3.44	3.36	3.27	3.19	3.10	3.01	3.01	2.93	2.93
225.0	3.36	3.19	3.10	3.10	3.01	2.93	2.93	2.84	2.76
270.0	3.44	3.36	3.19	3.19	3.10	3.01	3.01	2.93	2.84
315.0	3.27	3.19	3.10	3.01	3.01	3.01	2.93	2.84	2.76
360.0	3.44	3.36	3.27	3.19	3.10	3.01	2.93	2.93	2.84
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	2.76	2.76	2.76	2.67	2.58	2.58	2.50	2.41	2.50
45.0	2.76	2.76	2.67	2.58	2.67	2.58	2.58	2.50	2.41
90.0	2.76	2.67	2.67	2.67	2.58	2.50	2.50	2.41	2.41
135.0	2.84	2.76	2.76	2.67	2.67	2.58	2.58	2.50	2.50
180.0	2.84	2.76	2.76	2.67	2.67	2.58	2.50	2.50	2.50
225.0	2.76	2.67	2.67	2.58	2.58	2.50	2.50	2.50	2.41
270.0	2.84	2.76	2.67	2.58	2.58	2.58	2.50	2.50	2.50
315.0	2.76	2.67	2.67	2.58	2.58	2.50	2.50	2.41	2.41
360.0	2.76	2.76	2.76	2.67	2.58	2.58	2.50	2.41	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	2.33	2.33	2.33	2.33	2.33	2.24
45.0	2.41	2.41	2.41	2.33	2.33	2.33	2.33	2.33	2.24
90.0	2.41	2.41	2.33	2.33	2.33	2.33	2.33	2.24	2.24
135.0	2.50	2.41	2.41	2.41	2.33	2.33	2.33	2.33	2.24
180.0	2.50	2.41	2.41	2.41	2.33	2.33	2.33	2.33	2.24
225.0	2.41	2.33	2.41	2.33	2.33	2.33	2.33	2.24	2.24
270.0	2.50	2.41	2.41	2.33	2.41	2.33	2.33	2.33	2.24
315.0	2.41	2.41	2.33	2.33	2.33	2.33	2.33	2.33	2.24
360.0	2.41	2.41	2.41	2.33	2.33	2.33	2.33	2.33	2.24

Intensity data(cd)

C/ $\gamma(^{\circ})$	90.0
0.0	2.24
45.0	2.24
90.0	2.24
135.0	2.33
180.0	2.24
225.0	2.24
270.0	2.24
315.0	2.24
360.0	2.24