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NT

Client: NT

LumCAT: 1-1546-L & 92.70.378.00

Luminaire: 92.70.457.00 LED HOLDER

Report No: 20241113-B008

Ballast type: AC

Test No: 20241113-C008

Voltage(V): 35.290

LampCAT: LIMILEDS LUXEON 1202HD

Current(A): 0.200

Lamp flux(lm): 855.0

Power (W): 7.058

Number of Lamps: 1

PF: 0.000

Length(mm): 35

Width(mm): 35

Phm Type: C

Height(mm): 24

Photometric Results

Lumens(lm): 788.65, Efficiency(%): 92.24% , Luminous Efficacy(lm/W): 111.74

Central intensity(cd): 1259.609, Maximum intensity(cd): 1283.750

Angle of maximum intensity: C=0.0 γ =6.0

Beam Angle(50%Imax): [C0/180]Total=48.4

[C90/270]Total=48.4

Field angle(10%Imax): [C0/180]Total=65.2

[C90/270]Total=65.2

Maximum s/h(1/2): C0_180=0.80 C90_270=0.80

Maximum s/h(1/4): C0_180=0.71 C90_270=0.71

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 92.24%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.721%

Equipment: GMS1980
Temperature(°C): 25.0

Date: 2024/11/13
Humidity(%): 60.0%

Operator: NT07
Distance(m): 7.65

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1259.609	0.000	0	0.00%	0.00%
1.0	1261.292	1.206	1.206	0.14%	0.15%
2.0	1266.851	3.629	4.835	0.42%	0.61%
3.0	1273.142	6.075	10.91	0.71%	1.38%
4.0	1280.019	8.546	19.456	1.00%	2.47%
5.0	1283.164	11.027	30.483	1.29%	3.87%
6.0	1283.750	13.490	43.972	1.58%	5.58%
7.0	1281.482	15.922	59.895	1.86%	7.59%
8.0	1275.410	18.299	78.194	2.14%	9.91%
9.0	1263.998	20.581	98.774	2.41%	12.52%
10.0	1236.237	22.626	121.401	2.65%	15.39%
11.0	1200.304	24.346	145.747	2.85%	18.48%
12.0	1185.088	26.076	171.822	3.05%	21.79%
13.0	1163.830	27.876	199.698	3.26%	25.32%
14.0	1136.331	29.442	229.14	3.44%	29.05%
15.0	1108.226	30.814	259.954	3.60%	32.96%
16.0	1073.244	31.965	291.919	3.74%	37.02%
17.0	1036.455	32.854	324.773	3.84%	41.18%
18.0	992.834	33.459	358.231	3.91%	45.42%
19.0	947.077	33.750	391.982	3.95%	49.70%
20.0	892.636	33.672	425.654	3.94%	53.97%
21.0	838.913	33.249	458.903	3.89%	58.19%
22.0	783.741	32.608	491.511	3.81%	62.32%
23.0	717.471	31.499	523.01	3.68%	66.32%
24.0	646.440	29.820	552.83	3.49%	70.10%
25.0	571.282	27.688	580.519	3.24%	73.61%
26.0	499.738	25.282	605.8	2.96%	76.82%
27.0	427.543	22.686	628.486	2.65%	79.69%
28.0	355.129	19.816	648.302	2.32%	82.20%
29.0	296.490	17.048	665.35	1.99%	84.37%
30.0	256.058	14.919	680.269	1.74%	86.26%
31.0	218.538	13.207	693.476	1.54%	87.93%
32.0	144.558	10.402	703.878	1.22%	89.25%
33.0	111.756	7.551	711.429	0.88%	90.21%
34.0	90.820	6.131	717.56	0.72%	90.99%
35.0	75.260	5.158	722.718	0.60%	91.64%
36.0	64.975	4.465	727.183	0.52%	92.21%
37.0	56.196	3.952	731.135	0.46%	92.71%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	49.195	3.518	734.653	0.41%	93.15%
39.0	43.599	3.167	737.82	0.37%	93.56%
40.0	38.786	2.873	740.693	0.34%	93.92%
41.0	34.550	2.611	743.305	0.31%	94.25%
42.0	31.295	2.392	745.697	0.28%	94.55%
43.0	28.530	2.216	747.913	0.26%	94.84%
44.0	25.852	2.053	749.966	0.24%	95.10%
45.0	23.767	1.907	751.873	0.22%	95.34%
46.0	21.924	1.787	753.659	0.21%	95.56%
47.0	20.220	1.676	755.336	0.20%	95.78%
48.0	18.764	1.576	756.911	0.18%	95.98%
49.0	17.367	1.484	758.395	0.17%	96.16%
50.0	16.094	1.395	759.79	0.16%	96.34%
51.0	15.011	1.316	761.106	0.15%	96.51%
52.0	14.075	1.248	762.354	0.15%	96.67%
53.0	13.285	1.190	763.544	0.14%	96.82%
54.0	12.531	1.138	764.682	0.13%	96.96%
55.0	11.931	1.092	765.774	0.13%	97.10%
56.0	11.324	1.051	766.825	0.12%	97.23%
57.0	10.805	1.012	767.837	0.12%	97.36%
58.0	10.315	0.977	768.814	0.11%	97.49%
59.0	9.868	0.944	769.757	0.11%	97.60%
60.0	9.444	0.912	770.67	0.11%	97.72%
61.0	9.056	0.883	771.552	0.10%	97.83%
62.0	8.683	0.855	772.407	0.10%	97.94%
63.0	8.310	0.826	773.234	0.10%	98.05%
64.0	8.003	0.800	774.034	0.09%	98.15%
65.0	7.703	0.777	774.811	0.09%	98.25%
66.0	7.454	0.756	775.568	0.09%	98.34%
67.0	7.198	0.737	776.304	0.09%	98.44%
68.0	6.942	0.716	777.021	0.08%	98.53%
69.0	6.723	0.697	777.718	0.08%	98.61%
70.0	6.489	0.679	778.396	0.08%	98.70%
71.0	6.284	0.660	779.057	0.08%	98.78%
72.0	6.086	0.643	779.7	0.08%	98.87%
73.0	5.896	0.627	780.326	0.07%	98.95%
74.0	5.713	0.610	780.937	0.07%	99.02%
75.0	5.530	0.594	781.531	0.07%	99.10%

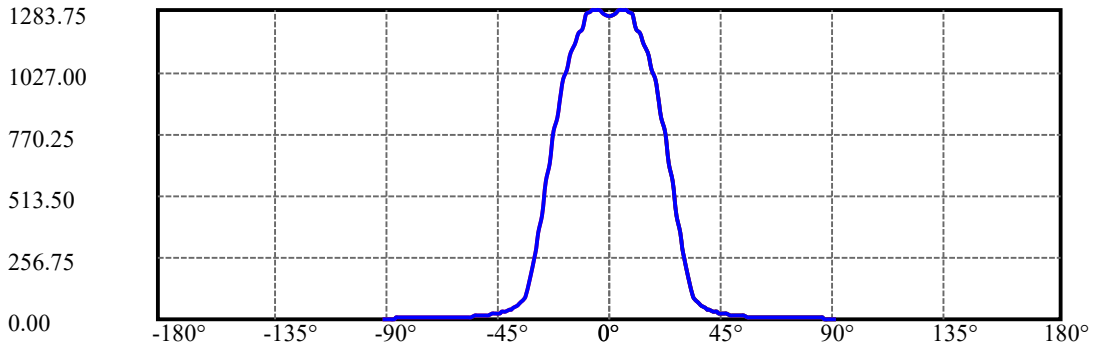
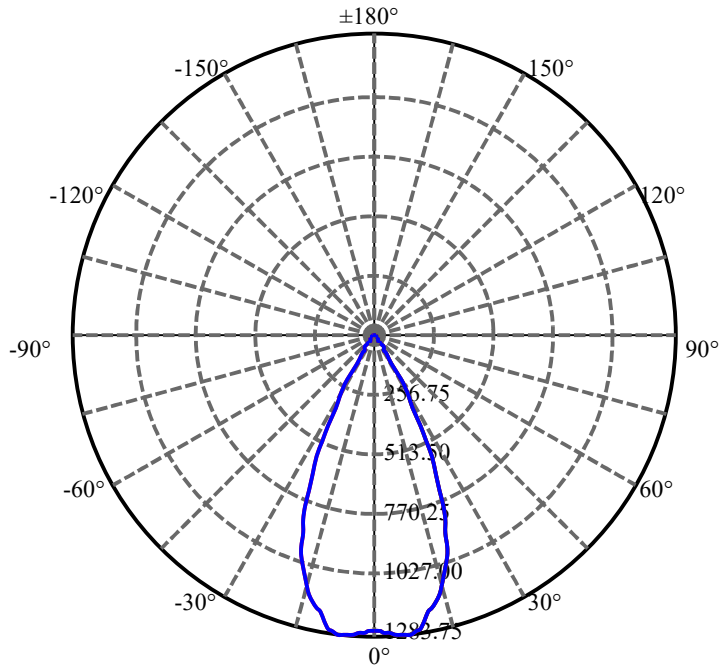
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	5.355	0.578	782.109	0.07%	99.17%
77.0	5.150	0.560	782.669	0.07%	99.24%
78.0	4.996	0.543	783.212	0.06%	99.31%
79.0	4.813	0.527	783.739	0.06%	99.38%
80.0	4.638	0.510	784.248	0.06%	99.44%
81.0	4.477	0.493	784.741	0.06%	99.50%
82.0	4.353	0.479	785.22	0.06%	99.57%
83.0	4.221	0.466	785.686	0.05%	99.62%
84.0	4.111	0.454	786.14	0.05%	99.68%
85.0	4.009	0.443	786.583	0.05%	99.74%
86.0	3.884	0.431	787.015	0.05%	99.79%
87.0	3.789	0.420	787.435	0.05%	99.85%
88.0	3.702	0.410	787.845	0.05%	99.90%
89.0	3.636	0.402	788.247	0.05%	99.95%
90.0	3.628	0.398	788.646	0.05%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	680.27	79.56%	86.26%
0-40	740.69	86.63%	93.92%
0-60	770.67	90.14%	97.72%
0-90	788.25	92.19%	99.95%
0-120	788.25	92.19%	99.95%
0-180	788.65	92.24%	100.00%
60-90	17.58	2.06%	2.23%
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%
0-27.12	630.92	73.79%	80.00%

ZONAL LUMEN SUMMARY

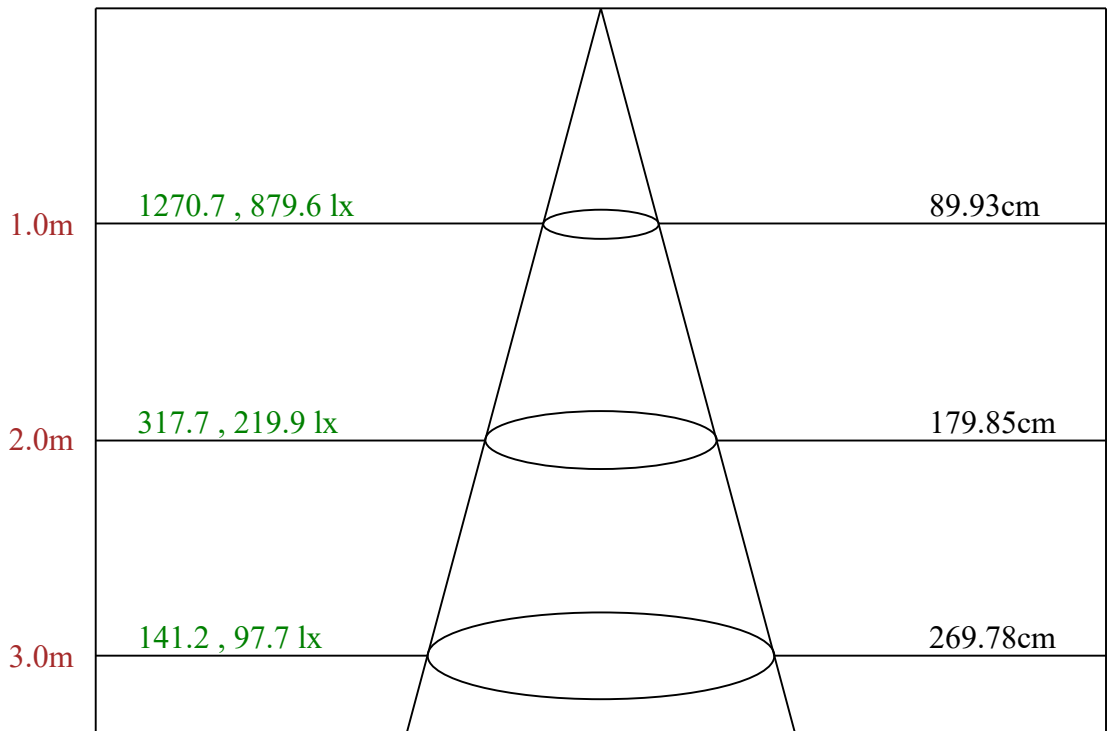
0-10	121.40
10-20	304.25
20-30	254.62
30-40	60.42
40-50	19.10
50-60	10.88
60-70	7.73
70-80	5.85
80-90	4.00
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



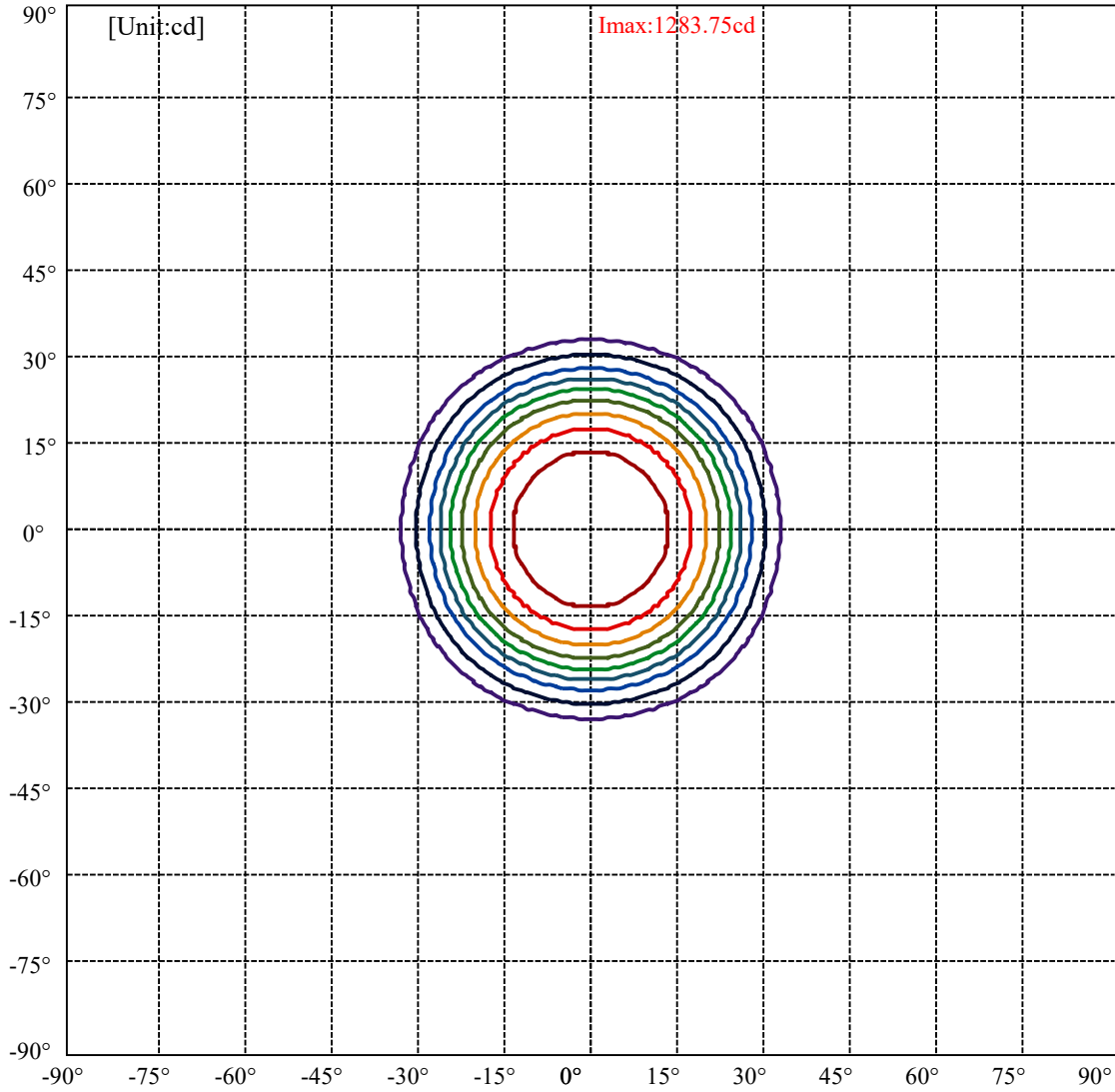
C0(Max): —————
C0/C180: —————
C90/C270: —————

Field angle(10%Imax):C0/180Left:32.6 Right:32.6
:C90/270Left:32.6 Right:32.6

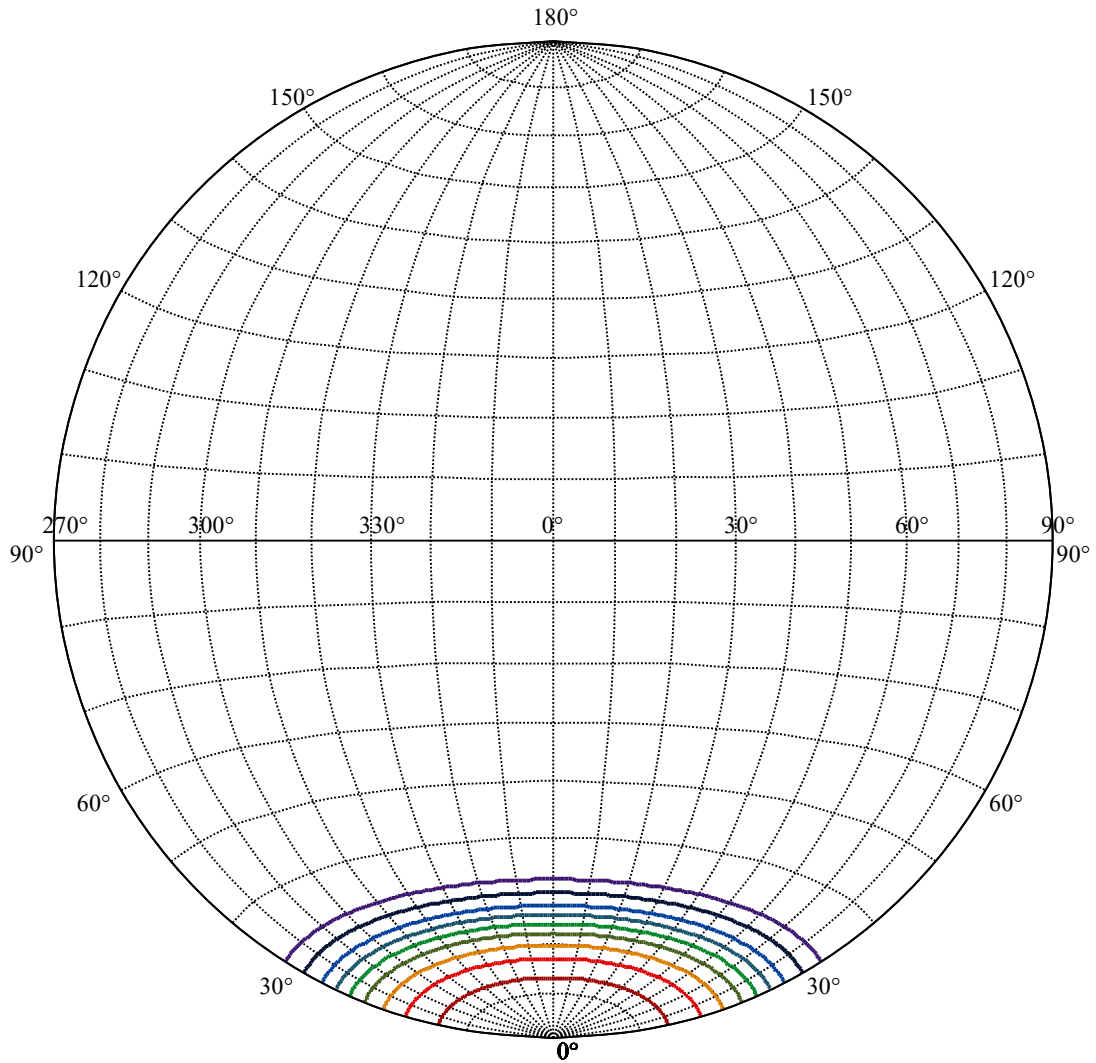
Beam Angle(50%Imax):C0/180Left:24.2 Right:24.2
:C90/270Left:24.2 Right:24.2



Max , Ave Beam angle of C0 plane 48.42



(10%Imax) 128.375	—
(20%Imax) 256.75	—
(30%Imax) 385.125	—
(40%Imax) 513.5	—
(50%Imax) 641.875	—
(60%Imax) 770.25	—
(70%Imax) 898.625	—
(80%Imax) 1027	—
(90%Imax) 1155.37	—



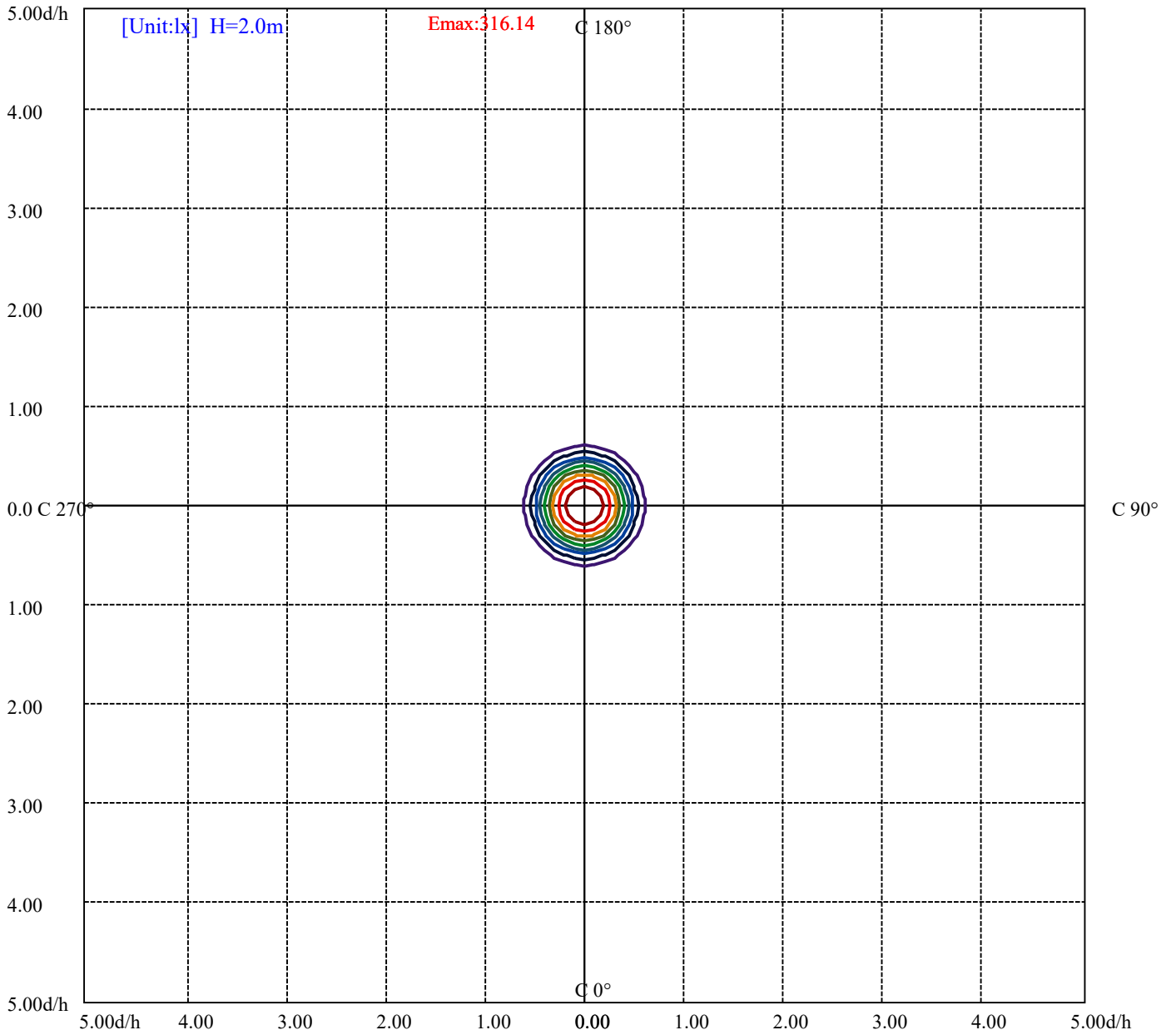
House

[Unit:cd]

Road

I_{max}:1283.75

(10%I _{max}) 128.375	—
(20%I _{max}) 256.75	—
(30%I _{max}) 385.125	—
(40%I _{max}) 513.5	—
(50%I _{max}) 641.875	—
(60%I _{max}) 770.25	—
(70%I _{max}) 898.625	—
(80%I _{max}) 1027	—
(90%I _{max}) 1155.37	—



(10%Emax) 31.614	—
(20%Emax) 63.22825	—
(30%Emax) 94.84225	—
(40%Emax) 126.4563	—
(50%Emax) 158.0703	—
(60%Emax) 189.6842	—
(70%Emax) 221.2985	—
(80%Emax) 252.9125	—
(90%Emax) 284.5275	—

Luminance Limiting Curve(no luminous side)

Luminance Table

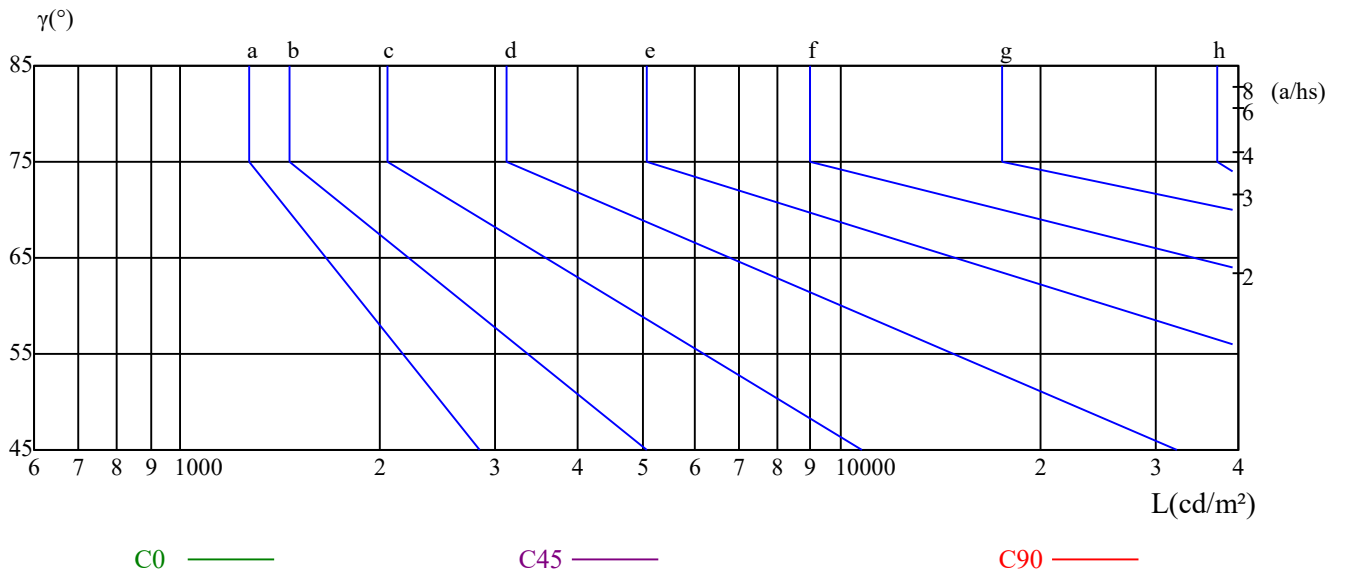
γ	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
0	0	0	0	0	0	0	0	0

Glare Table

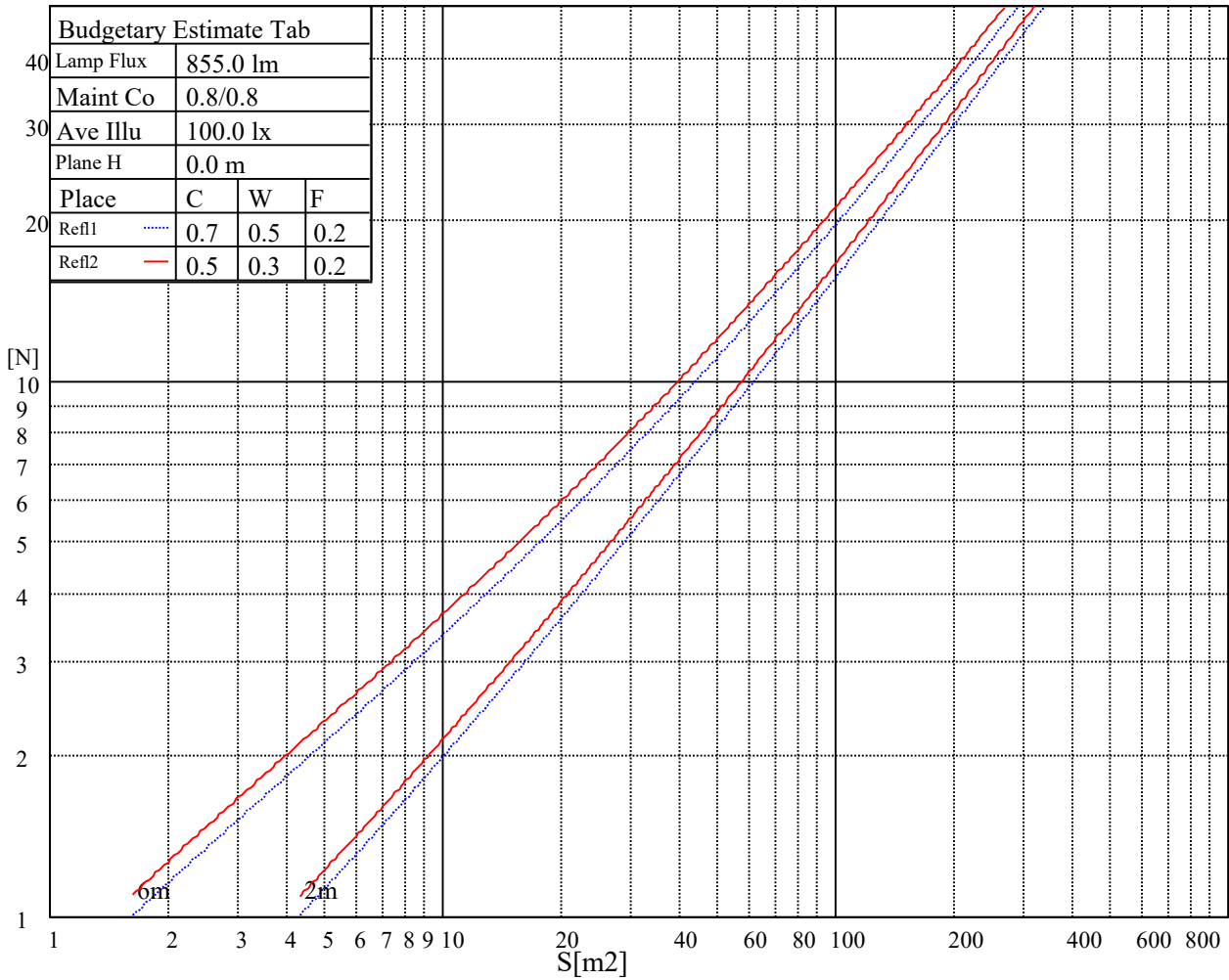
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

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	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
4H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
8H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	12H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
12H	4H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	6H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	8H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
Variation with the observer position at spacings:											
S = 1.0H	非数字/非数字					非数字/非数字					
S = 1.5H	非数字/非数字					非数字/非数字					
S = 2.0H	非数字/非数字					非数字/非数字					
Standard tables:	BK0					BK0					
Uncorrected UGR	负无穷大					负无穷大					

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	COEFFICIENTS OF UTILIZATION RHOFC=20 CU															
0	1.10	1.10	1.10	1.07	1.07	1.07	1.02	1.02	1.02	0.98	0.98	0.98	0.94	0.94	0.94	0.92
1	1.02	1.00	0.98	1.00	0.98	0.97	0.97	0.95	0.94	0.93	0.92	0.91	0.90	0.89	0.88	0.87
2	0.96	0.92	0.90	0.94	0.91	0.89	0.91	0.89	0.87	0.89	0.87	0.85	0.86	0.85	0.83	0.82
3	0.90	0.86	0.83	0.89	0.85	0.82	0.87	0.83	0.81	0.84	0.82	0.80	0.82	0.80	0.78	0.77
4	0.85	0.81	0.77	0.84	0.80	0.77	0.82	0.79	0.76	0.81	0.77	0.75	0.79	0.76	0.74	0.73
5	0.81	0.76	0.72	0.80	0.75	0.72	0.78	0.74	0.71	0.77	0.73	0.71	0.76	0.73	0.70	0.69
6	0.77	0.72	0.68	0.76	0.71	0.68	0.75	0.71	0.68	0.73	0.70	0.67	0.72	0.69	0.67	0.65
7	0.73	0.68	0.65	0.72	0.68	0.64	0.71	0.67	0.64	0.70	0.67	0.64	0.69	0.66	0.63	0.62
8	0.70	0.65	0.61	0.69	0.64	0.61	0.68	0.64	0.61	0.67	0.63	0.61	0.66	0.63	0.60	0.59
9	0.66	0.62	0.58	0.66	0.61	0.58	0.65	0.61	0.58	0.64	0.61	0.58	0.64	0.60	0.58	0.57
10	0.64	0.59	0.56	0.63	0.59	0.56	0.63	0.58	0.55	0.62	0.58	0.55	0.61	0.58	0.55	0.54

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	1263.56	1264.14	1267.07	1269.41	1275.85	1275.26	1271.75	1264.73	1256.54
45.0	1263.56	1262.39	1262.39	1267.07	1271.75	1277.60	1281.12	1275.26	1273.51
90.0	1257.12	1257.71	1265.31	1272.34	1278.19	1285.80	1285.80	1285.21	1278.19
135.0	1254.20	1255.95	1260.63	1267.66	1277.60	1282.87	1288.14	1290.48	1289.31
180.0	1263.56	1265.90	1272.92	1282.29	1289.31	1291.65	1288.72	1291.06	1284.63
225.0	1263.56	1271.75	1281.70	1289.89	1296.33	1294.58	1296.92	1288.72	1278.78
270.0	1257.12	1257.71	1260.05	1269.41	1277.60	1284.04	1284.63	1287.55	1284.04
315.0	1254.20	1254.78	1264.73	1267.07	1273.51	1273.51	1272.92	1268.83	1258.29
360.0	1263.56	1264.14	1267.07	1269.41	1275.85	1275.26	1271.75	1264.73	1256.54

C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1245.42	1213.23	1163.90	1163.90	1136.27	1110.05	1082.37	1044.57	1009.34
45.0	1267.66	1251.85	1225.52	1200.35	1169.92	1146.51	1125.45	1090.92	1059.90
90.0	1261.80	1243.66	1166.18	1166.18	1160.50	1126.85	1099.46	1069.26	1023.44
135.0	1281.70	1264.73	1244.25	1219.67	1196.26	1170.51	1135.98	1106.72	1074.53
180.0	1274.68	1259.46	1235.47	1204.45	1180.46	1155.88	1127.79	1086.24	1049.95
225.0	1262.39	1237.81	1166.70	1166.70	1154.06	1118.54	1085.42	1050.01	1010.74
270.0	1275.26	1257.71	1238.98	1204.45	1179.87	1156.46	1130.13	1098.53	1058.73
315.0	1243.08	1161.44	1161.44	1155.00	1133.29	1105.84	1079.21	1039.71	1005.01
360.0	1245.42	1213.23	1163.90	1163.90	1136.27	1110.05	1082.37	1044.57	1009.34

C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	973.40	923.66	879.65	828.03	776.94	705.66	641.99	573.23	504.35
45.0	1025.96	986.75	935.83	888.43	838.69	784.85	715.20	647.32	576.51
90.0	982.30	934.49	881.52	826.45	755.35	689.34	615.19	522.84	452.50
135.0	1024.20	984.99	922.96	868.53	814.69	759.68	680.09	605.77	534.95
180.0	993.19	946.37	897.79	831.66	778.41	719.30	639.71	571.24	500.43
225.0	954.68	906.57	836.11	778.99	718.25	636.43	566.79	496.04	428.38
270.0	1020.69	982.65	925.30	876.73	825.23	755.00	690.04	600.50	531.44
315.0	968.25	911.14	861.92	812.47	762.37	689.51	622.50	553.33	469.35
360.0	973.40	923.66	879.65	828.03	776.94	705.66	641.99	573.23	504.35

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	419.90	355.82	297.88	233.15	187.97	141.10	113.12	92.17	74.85
45.0	503.94	417.91	355.29	296.77	296.77	180.19	132.38	106.22	87.37
90.0	386.13	308.30	254.34	194.24	153.33	120.03	95.86	79.18	65.55
135.0	461.80	379.28	317.25	303.21	303.21	156.37	121.73	97.85	77.66
180.0	432.54	351.78	308.47	308.47	186.22	147.24	108.97	89.07	74.27
225.0	350.08	291.03	238.65	191.13	143.20	112.42	91.30	76.96	64.37
270.0	461.22	396.84	317.84	303.79	303.79	163.04	120.61	97.44	82.75
315.0	404.74	340.07	282.20	217.70	173.81	136.06	110.08	87.67	75.26
360.0	419.90	355.82	297.88	233.15	187.97	141.10	113.12	92.17	74.85

C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	64.32	56.30	49.57	43.19	38.45	34.94	31.95	28.62	26.22
45.0	74.91	62.50	55.30	49.51	44.59	38.51	34.94	32.01	28.85
90.0	57.59	51.15	44.48	39.91	35.64	31.89	28.44	26.04	23.47
135.0	67.42	59.11	50.80	45.18	40.61	35.35	32.07	29.20	26.22
180.0	64.84	57.41	49.51	43.89	38.92	34.00	30.96	28.27	25.98
225.0	56.30	48.05	42.72	38.04	33.24	30.08	27.45	25.16	22.71
270.0	71.46	60.10	52.79	47.29	41.26	37.45	33.30	30.49	27.80
315.0	62.97	54.95	48.40	41.79	37.57	34.18	31.25	28.44	25.57
360.0	64.32	56.30	49.57	43.19	38.45	34.94	31.95	28.62	26.22

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	24.17	22.00	20.42	18.96	17.44	16.21	15.27	14.16	13.40
45.0	26.57	24.58	22.36	20.83	19.37	17.73	16.56	15.51	14.40
90.0	21.59	19.96	18.14	16.85	15.68	14.46	13.58	12.87	12.17
135.0	24.11	22.30	20.66	19.20	17.50	16.33	15.04	14.10	13.40
180.0	23.41	21.77	20.25	18.79	17.21	16.09	14.86	13.99	13.28
225.0	20.95	19.49	18.08	16.50	15.39	14.46	13.40	12.64	12.00
270.0	25.63	23.29	21.71	20.19	18.84	17.32	16.21	15.22	14.22
315.0	23.70	22.00	20.13	18.79	17.50	16.15	15.16	14.10	13.40
360.0	24.17	22.00	20.42	18.96	17.44	16.21	15.27	14.16	13.40
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	12.70	12.11	11.41	10.89	10.42	9.95	9.48	9.07	8.78
45.0	13.64	12.93	12.29	11.59	11.12	10.65	10.18	9.71	9.36
90.0	11.53	11.00	10.53	10.18	9.66	9.31	8.95	8.54	8.25
135.0	12.58	11.94	11.47	10.83	10.42	9.95	9.66	9.31	8.78
180.0	12.41	11.82	11.29	10.83	10.30	9.95	9.54	9.19	8.84
225.0	11.24	10.77	10.18	9.77	9.36	9.01	8.60	8.31	7.96
270.0	13.46	12.76	12.00	11.47	10.94	10.30	9.83	9.42	9.01
315.0	12.70	12.11	11.41	10.89	10.30	9.83	9.31	8.90	8.49
360.0	12.70	12.11	11.41	10.89	10.42	9.95	9.48	9.07	8.78
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	8.31	8.08	7.72	7.49	7.26	7.02	6.73	6.55	6.32
45.0	8.95	8.60	8.31	7.96	7.72	7.43	7.20	6.91	6.67
90.0	7.90	7.61	7.37	7.14	6.91	6.67	6.44	6.26	6.09
135.0	8.49	8.19	7.84	7.61	7.32	7.02	6.85	6.55	6.38
180.0	8.49	8.19	7.84	7.61	7.37	7.08	6.91	6.67	6.44
225.0	7.72	7.37	7.20	6.96	6.73	6.50	6.32	6.09	5.91
270.0	8.54	8.19	7.90	7.67	7.32	7.08	6.85	6.55	6.38
315.0	8.08	7.78	7.43	7.20	6.96	6.73	6.50	6.32	6.09
360.0	8.31	8.08	7.72	7.49	7.26	7.02	6.73	6.55	6.32
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	6.14	5.91	5.74	5.56	5.38	5.15	5.03	4.80	4.62
45.0	6.50	6.26	6.03	5.85	5.68	5.44	5.27	5.15	4.92
90.0	5.85	5.68	5.56	5.38	5.21	4.97	4.86	4.68	4.51
135.0	6.20	6.03	5.79	5.62	5.44	5.27	5.09	4.92	4.74
180.0	6.20	6.03	5.79	5.68	5.44	5.27	5.03	4.86	4.68
225.0	5.79	5.56	5.44	5.21	5.09	4.92	4.74	4.56	4.45
270.0	6.14	5.97	5.79	5.56	5.38	5.21	5.09	4.86	4.68
315.0	5.85	5.74	5.56	5.38	5.21	4.97	4.86	4.68	4.51
360.0	6.14	5.91	5.74	5.56	5.38	5.15	5.03	4.80	4.62
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.51	4.33	4.27	4.16	4.04	3.86	3.80	3.75	3.63
45.0	4.68	4.56	4.39	4.27	4.16	4.04	3.92	3.80	3.75
90.0	4.33	4.27	4.16	4.04	3.98	3.86	3.75	3.69	3.63
135.0	4.51	4.39	4.27	4.16	4.04	3.92	3.80	3.69	3.63
180.0	4.56	4.39	4.21	4.10	4.04	3.92	3.80	3.69	3.63
225.0	4.27	4.16	4.04	3.98	3.86	3.75	3.69	3.63	3.63
270.0	4.56	4.45	4.27	4.16	4.04	3.92	3.80	3.69	3.63
315.0	4.39	4.27	4.16	4.04	3.92	3.80	3.75	3.69	3.57
360.0	4.51	4.33	4.27	4.16	4.04	3.86	3.80	3.75	3.63

Intensity data(cd)

C/ γ (°)	90.0
0.0	3.63
45.0	3.69
90.0	3.63
135.0	3.57
180.0	3.63
225.0	3.63
270.0	3.63
315.0	3.63
360.0	3.63