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Nata

Client:

LumCAT: 2-2752-L

Luminaire: 92.70.411.00

Report No: 2024902-B013

Ballast type: AC

Test No: 2024902-C013

Voltage(V): 36.570

LampCAT: LUMILEDS LUXEON CoB 1208 Current(A): 0.897

Lamp flux(lm): 4053.0 Power (W): 32.810

Number of Lamps: 1 PF: 0.000

Length(mm): 0 Width(mm): 0

Phm Type: C Height(mm): 0

Photometric Results

Lumens(lm): 3786.85, Efficiency(%): 93.43% , Luminous Efficacy(lm/W): 115.42

Central intensity(cd): 13323.030, Maximum intensity(cd): 13323.030

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=25.4

[C90/270]Total=25.4

Field angle(10%Imax): [C0/180]Total=56.6

[C90/270]Total=56.6

Maximum s/h(1/2): C0_180=0.43 C90_270=0.43

Maximum s/h(1/4): C0_180=0.45 C90_270=0.45

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 93.43%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.120%

Equipment: GMS 1800
Temperature(°C): 25.0

Date: 2024/9/2
Humidity(%): 60.0%

Operator: NT
Distance(m): 7.25

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	13323.030	0.000	0	0.00%	0.00%
1.0	13256.171	12.718	12.718	0.31%	0.34%
2.0	13064.646	37.778	50.496	0.93%	1.33%
3.0	12641.721	61.481	111.977	1.52%	2.96%
4.0	12176.037	83.073	195.05	2.05%	5.15%
5.0	11757.265	102.960	298.01	2.54%	7.87%
6.0	10977.796	119.479	417.489	2.95%	11.02%
7.0	10537.218	133.543	551.032	3.29%	14.55%
8.0	9967.867	146.751	697.783	3.62%	18.43%
9.0	9257.767	155.813	853.596	3.84%	22.54%
10.0	8517.569	160.860	1014.456	3.97%	26.79%
11.0	7899.336	164.039	1178.495	4.05%	31.12%
12.0	7148.559	164.495	1342.99	4.06%	35.46%
13.0	6410.798	160.915	1503.905	3.97%	39.71%
14.0	5814.497	156.483	1660.388	3.86%	43.85%
15.0	5182.327	150.969	1811.357	3.72%	47.83%
16.0	4603.016	143.383	1954.74	3.54%	51.62%
17.0	4089.665	135.368	2090.109	3.34%	55.19%
18.0	3666.142	127.876	2217.985	3.16%	58.57%
19.0	3267.285	120.627	2338.612	2.98%	61.76%
20.0	2992.685	114.575	2453.187	2.83%	64.78%
21.0	2732.659	109.938	2563.125	2.71%	67.68%
22.0	2464.491	104.439	2667.564	2.58%	70.44%
23.0	2214.143	98.170	2765.735	2.42%	73.04%
24.0	2053.407	93.304	2859.039	2.30%	75.50%
25.0	1834.195	88.396	2947.434	2.18%	77.83%
26.0	1669.661	82.709	3030.143	2.04%	80.02%
27.0	1499.989	77.546	3107.689	1.91%	82.07%
28.0	1370.009	72.662	3180.352	1.79%	83.98%
29.0	1245.836	68.438	3248.79	1.69%	85.79%
30.0	1055.764	62.143	3310.932	1.53%	87.43%
31.0	949.850	55.813	3366.746	1.38%	88.91%
32.0	820.790	50.727	3417.472	1.25%	90.25%
33.0	696.788	44.708	3462.181	1.10%	91.43%
34.0	588.398	38.894	3501.074	0.96%	92.45%
35.0	490.277	33.500	3534.574	0.83%	93.34%
36.0	416.170	28.861	3563.435	0.71%	94.10%
37.0	346.413	24.871	3588.307	0.61%	94.76%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	304.284	21.719	3610.026	0.54%	95.33%
39.0	245.697	18.772	3628.798	0.46%	95.83%
40.0	210.033	15.894	3644.693	0.39%	96.25%
41.0	170.598	13.554	3658.247	0.33%	96.60%
42.0	146.321	11.514	3669.761	0.28%	96.91%
43.0	116.781	9.746	3679.507	0.24%	97.17%
44.0	96.682	8.057	3687.564	0.20%	97.38%
45.0	82.536	6.888	3694.451	0.17%	97.56%
46.0	71.669	6.031	3700.482	0.15%	97.72%
47.0	63.082	5.359	3705.841	0.13%	97.86%
48.0	56.794	4.846	3710.687	0.12%	97.99%
49.0	52.359	4.482	3715.17	0.11%	98.11%
50.0	48.627	4.210	3719.38	0.10%	98.22%
51.0	45.664	3.989	3723.369	0.10%	98.32%
52.0	43.371	3.821	3727.19	0.09%	98.42%
53.0	41.367	3.686	3730.876	0.09%	98.52%
54.0	39.639	3.570	3734.446	0.09%	98.62%
55.0	37.891	3.461	3737.907	0.09%	98.71%
56.0	36.301	3.353	3741.26	0.08%	98.80%
57.0	34.678	3.245	3744.505	0.08%	98.88%
58.0	33.049	3.132	3747.637	0.08%	98.96%
59.0	31.380	3.012	3750.649	0.07%	99.04%
60.0	29.639	2.883	3753.532	0.07%	99.12%
61.0	27.819	2.742	3756.274	0.07%	99.19%
62.0	26.045	2.595	3758.869	0.06%	99.26%
63.0	24.067	2.437	3761.306	0.06%	99.33%
64.0	22.576	2.289	3763.595	0.06%	99.39%
65.0	20.788	2.146	3765.741	0.05%	99.44%
66.0	19.093	1.990	3767.731	0.05%	99.50%
67.0	17.838	1.857	3769.588	0.05%	99.54%
68.0	16.393	1.734	3771.322	0.04%	99.59%
69.0	15.020	1.603	3772.925	0.04%	99.63%
70.0	13.699	1.475	3774.4	0.04%	99.67%
71.0	12.510	1.355	3775.754	0.03%	99.71%
72.0	11.314	1.239	3776.993	0.03%	99.74%
73.0	10.355	1.133	3778.126	0.03%	99.77%
74.0	9.455	1.041	3779.167	0.03%	99.80%
75.0	8.660	0.957	3780.125	0.02%	99.82%

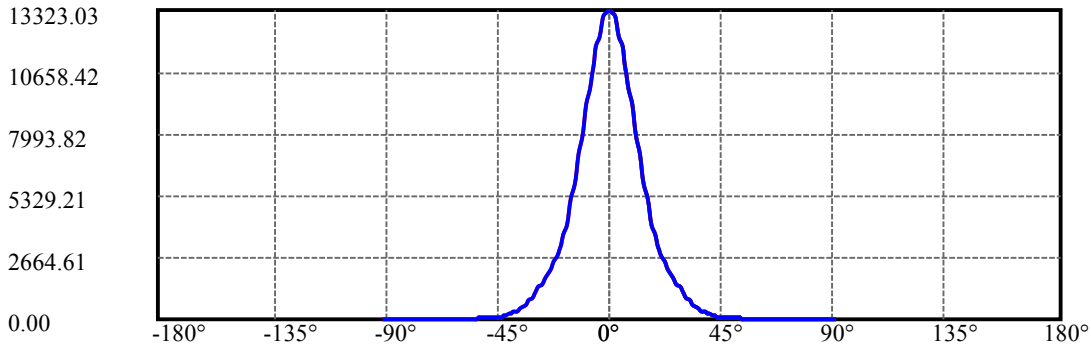
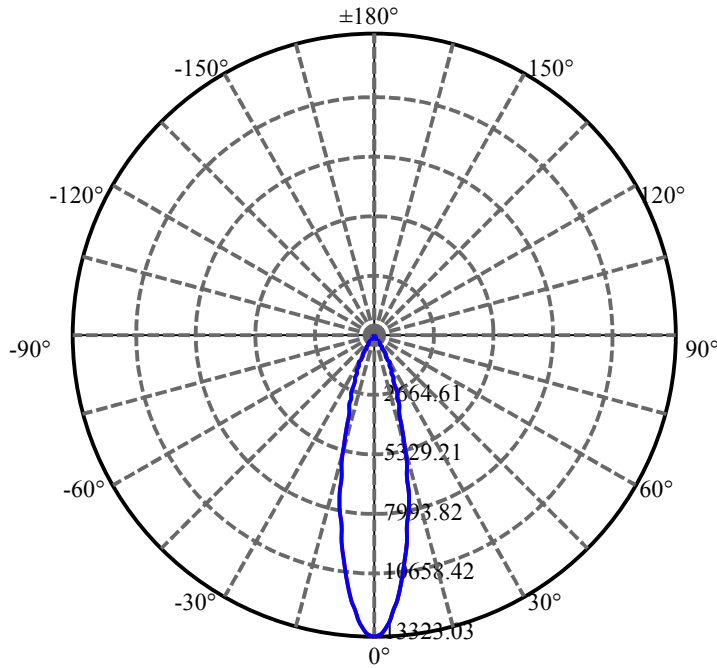
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	7.904	0.879	3781.004	0.02%	99.85%
77.0	7.214	0.806	3781.81	0.02%	99.87%
78.0	6.524	0.735	3782.545	0.02%	99.89%
79.0	5.874	0.666	3783.211	0.02%	99.90%
80.0	5.263	0.600	3783.812	0.01%	99.92%
81.0	4.658	0.537	3784.348	0.01%	99.93%
82.0	4.126	0.476	3784.825	0.01%	99.95%
83.0	3.555	0.418	3785.242	0.01%	99.96%
84.0	3.029	0.359	3785.601	0.01%	99.97%
85.0	2.589	0.307	3785.908	0.01%	99.98%
86.0	2.181	0.261	3786.168	0.01%	99.98%
87.0	1.800	0.218	3786.386	0.01%	99.99%
88.0	1.485	0.180	3786.566	0.00%	99.99%
89.0	1.242	0.149	3786.716	0.00%	100.00%
90.0	1.137	0.130	3786.846	0.00%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	3310.93	81.69%	87.43%
0-40	3644.69	89.93%	96.25%
0-60	3753.53	92.61%	99.12%
0-90	3786.72	93.43%	100.00%
0-120	3786.72	93.43%	100.00%
0-180	3786.85	93.43%	100.00%
60-90	33.18	0.82%	0.88%
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%
0-25.99	3029.48	74.75%	80.00%

ZONAL LUMEN SUMMARY

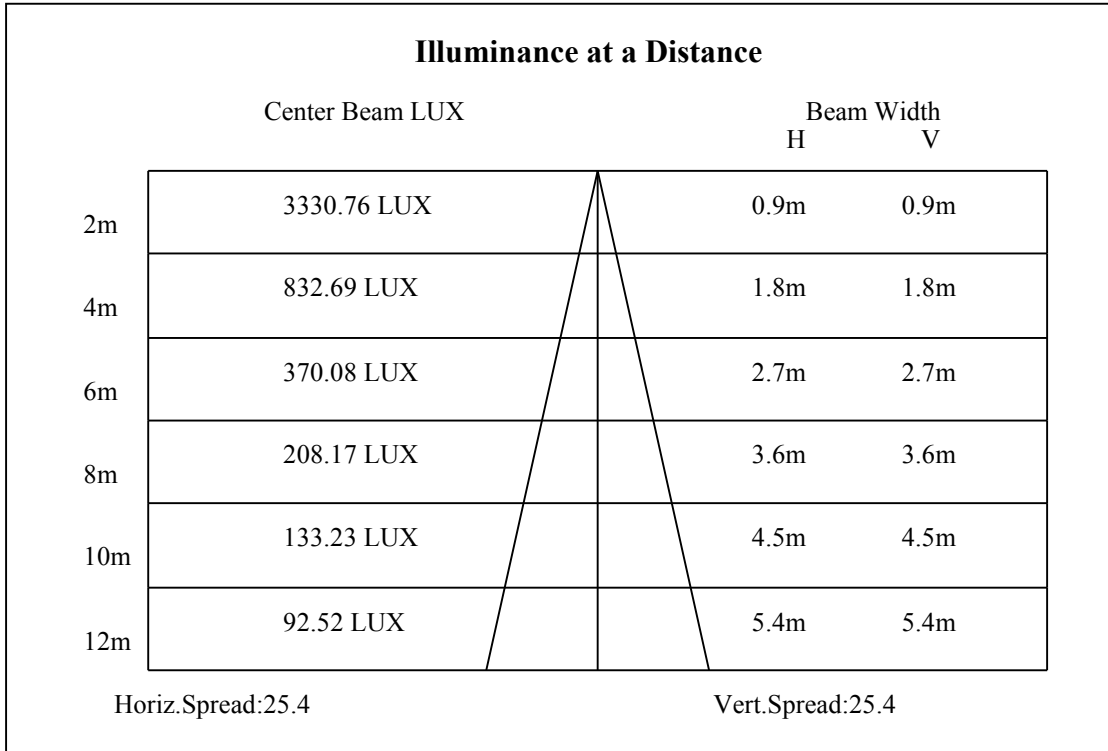
0-10	1014.46
10-20	1438.73
20-30	857.75
30-40	333.76
40-50	74.69
50-60	34.15
60-70	20.87
70-80	9.41
80-90	2.90
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

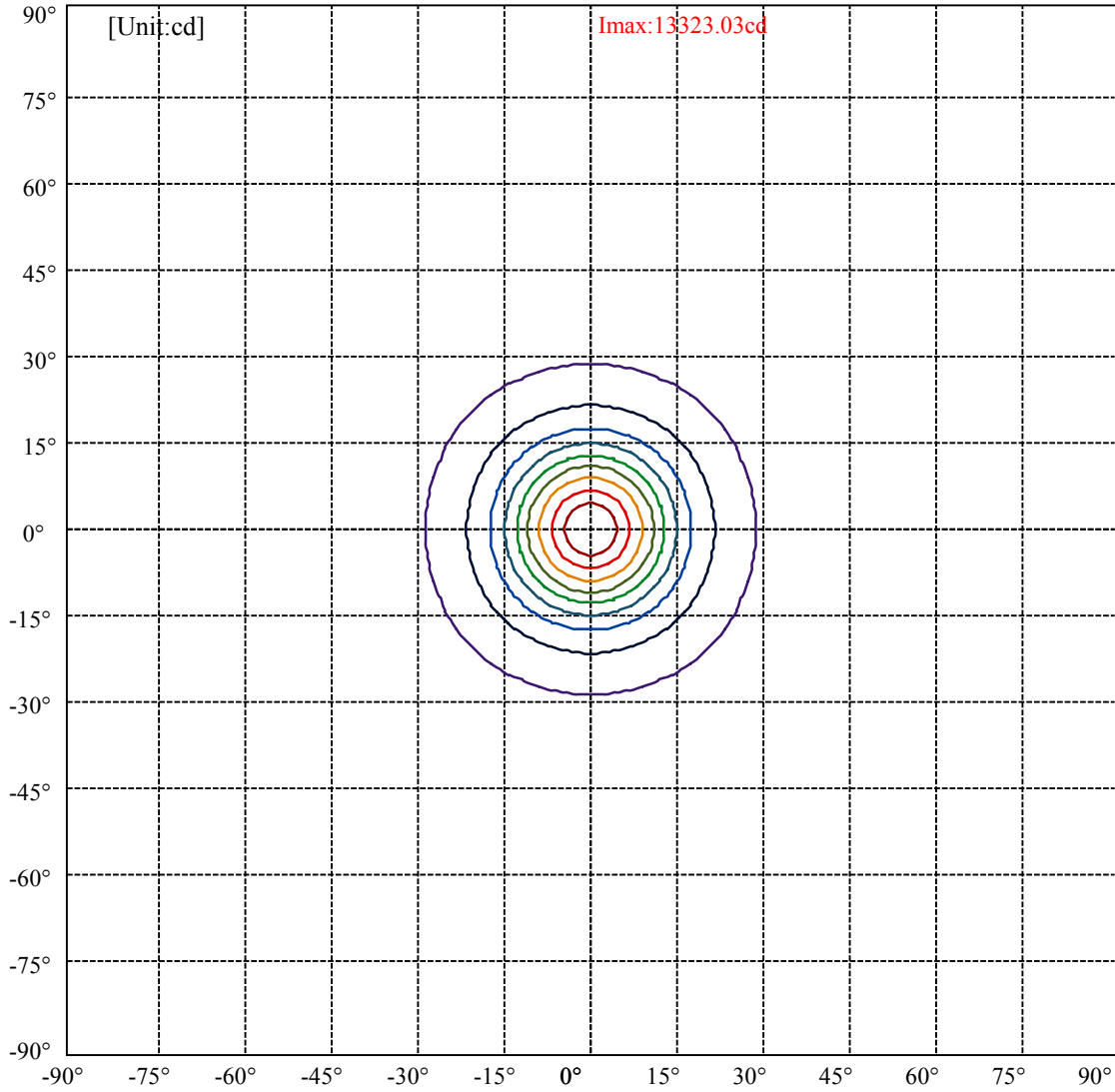


C0(Max): ———
C0/C180: ———
C90/C270: ———

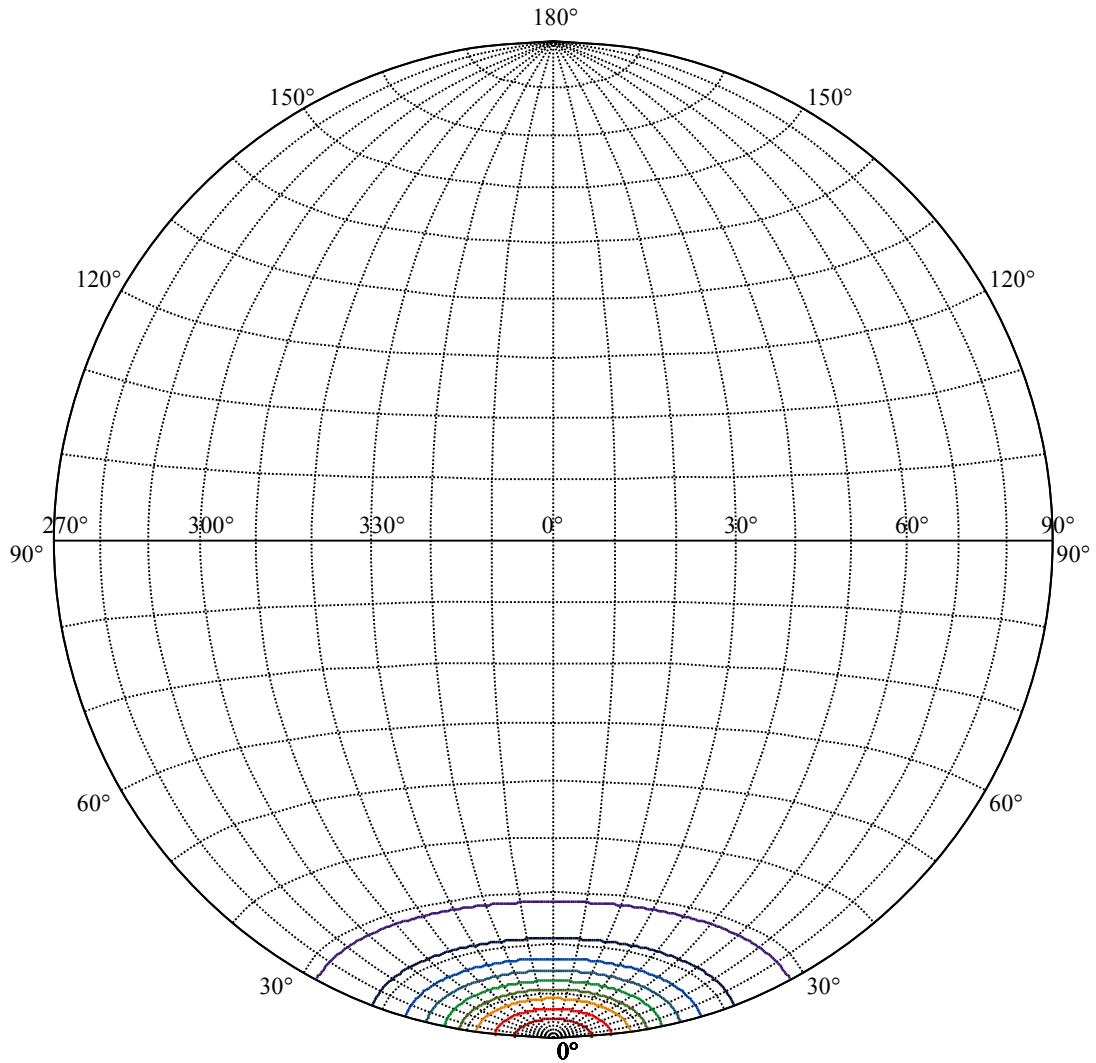
Field angle(10%Imax):C0/180Left:28.3 Right:28.3
:C90/270Left:28.3 Right:28.3

Beam Angle(50%Imax):C0/180Left:12.7 Right:12.7
:C90/270Left:12.7 Right:12.7





(10%Imax) 1332.3	—
(20%Imax) 2664.61	—
(30%Imax) 3996.91	—
(40%Imax) 5329.21	—
(50%Imax) 6661.51	—
(60%Imax) 7993.82	—
(70%Imax) 9326.12	—
(80%Imax) 10658.4	—
(90%Imax) 11990.7	—



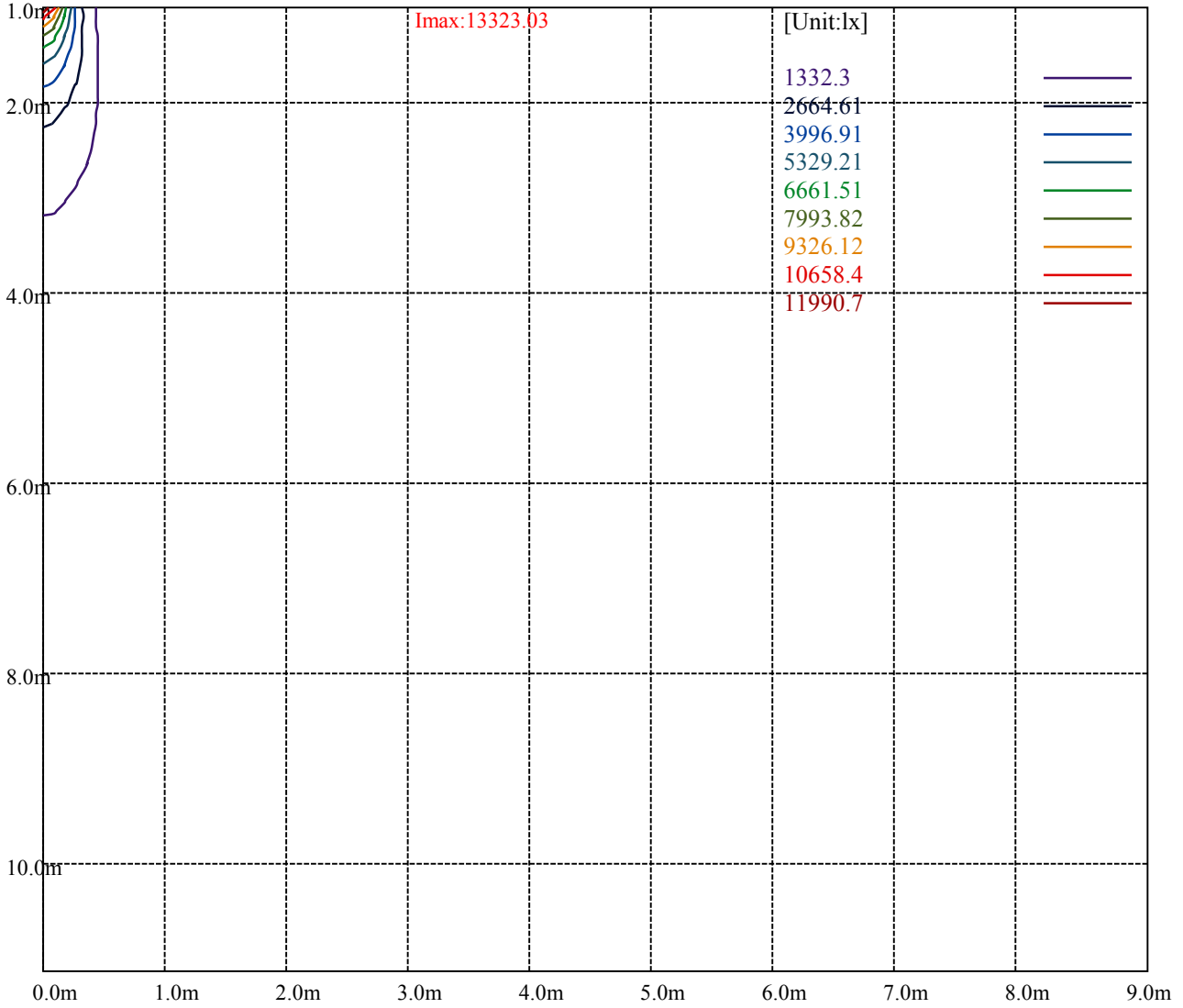
House

[Unit:cd]

Road

Imax:13323.03

(10%Imax) 1332.3	—
(20%Imax) 2664.61	—
(30%Imax) 3996.91	—
(40%Imax) 5329.21	—
(50%Imax) 6661.51	—
(60%Imax) 7993.82	—
(70%Imax) 9326.12	—
(80%Imax) 10658.4	—
(90%Imax) 11990.7	—



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

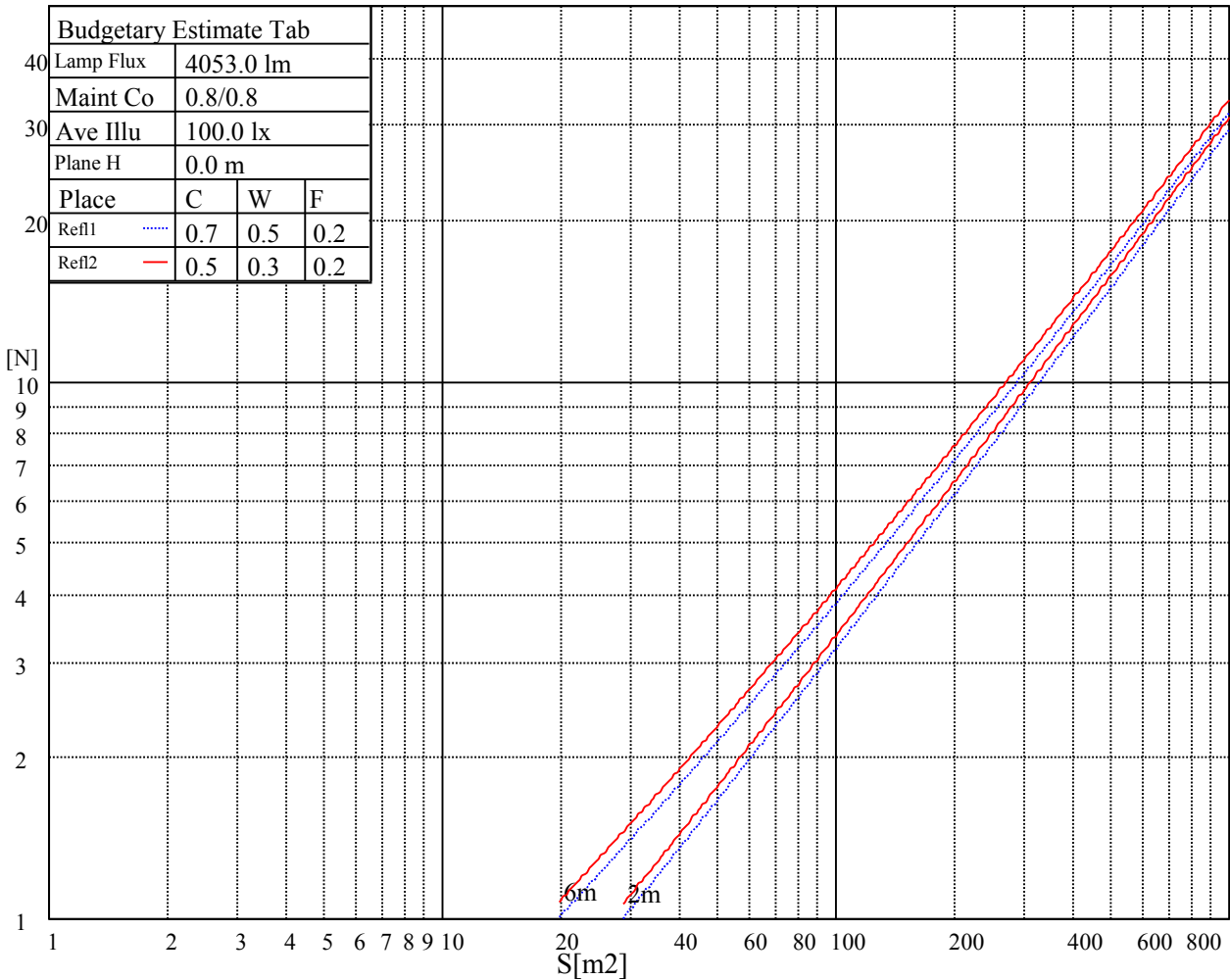
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

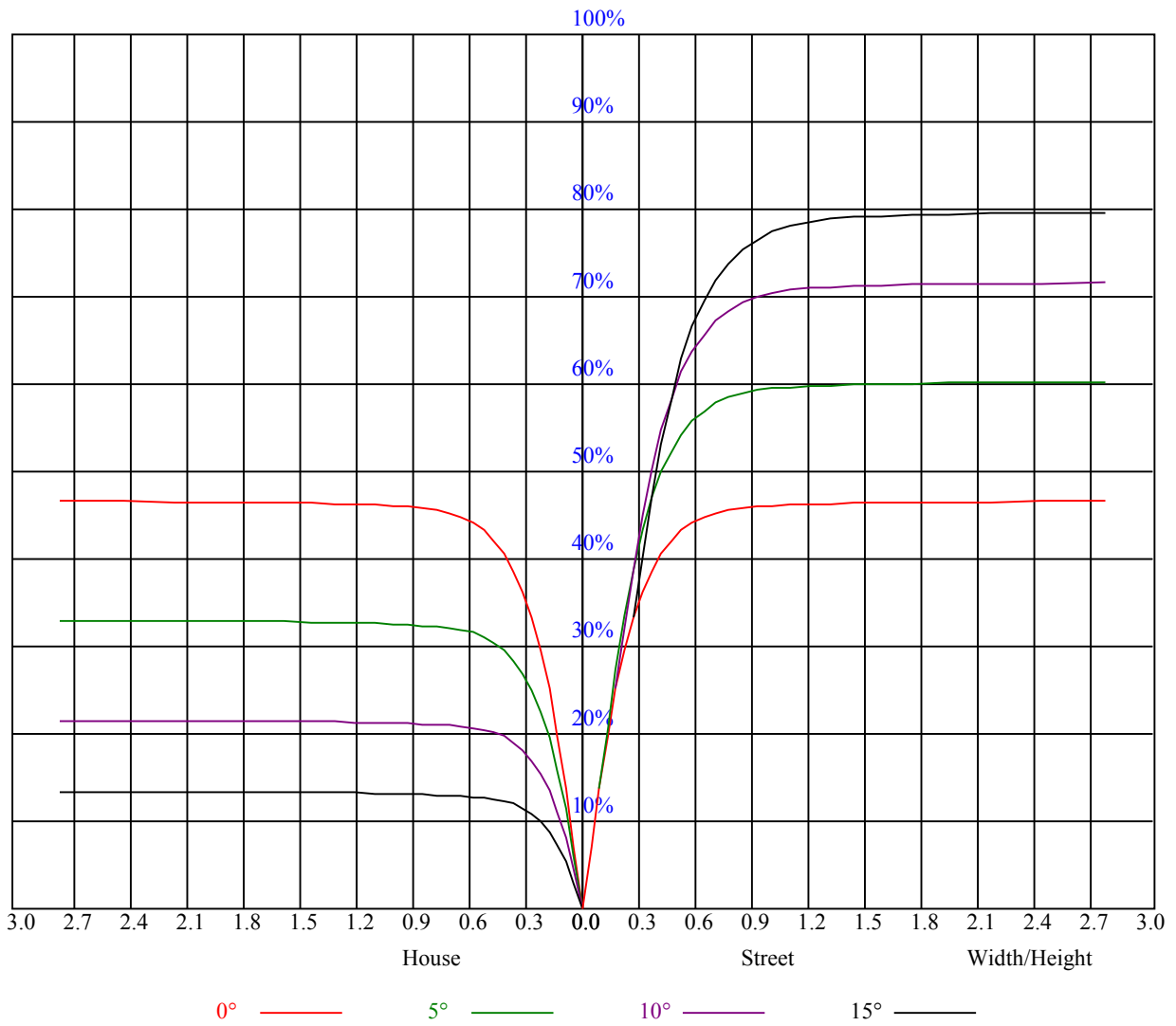


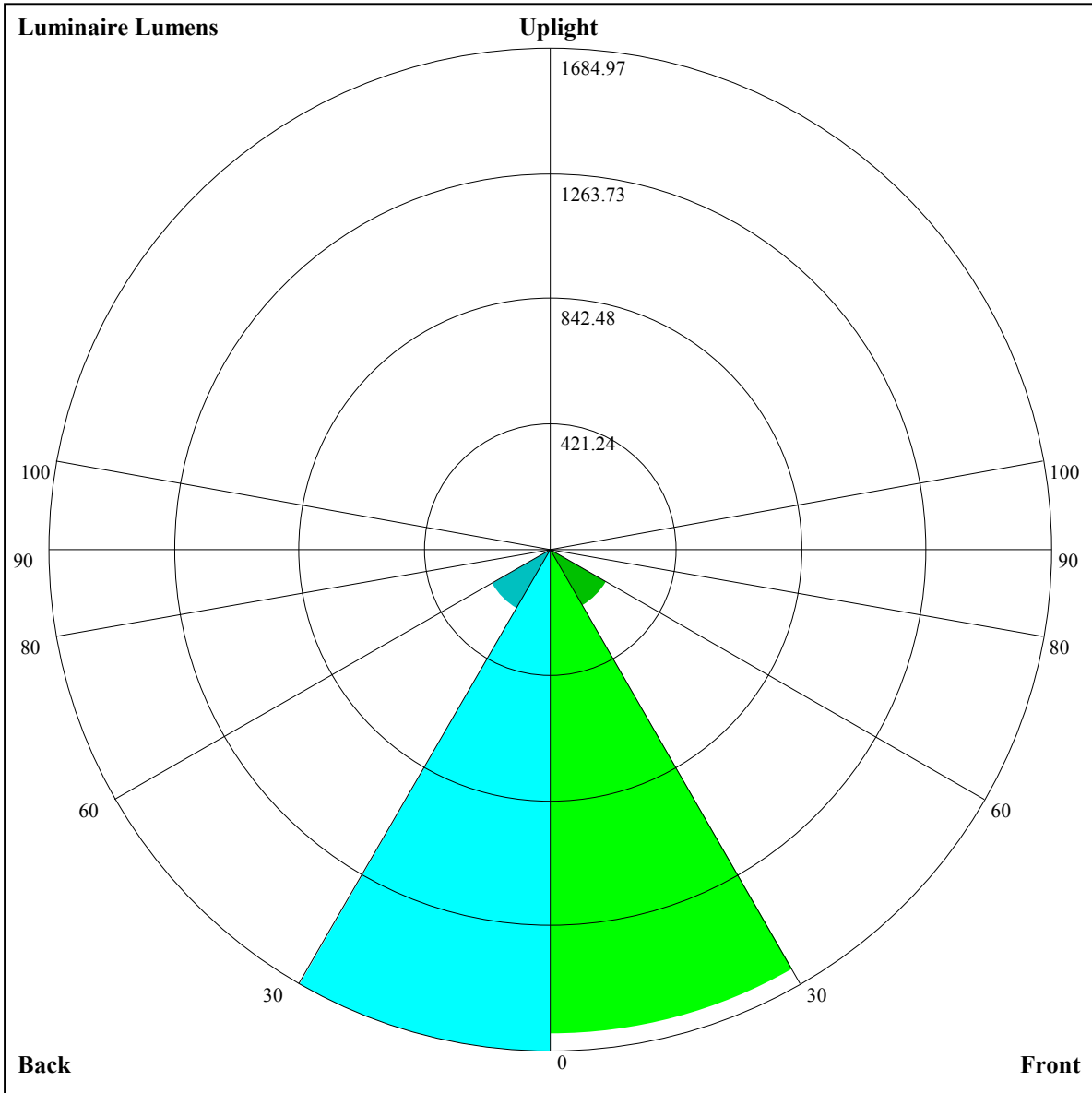
Illumination assessment according UGR											
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30	
Rf of Wall	50	30	50	30	30	50	30	50	30	30	
Rf of Floor	20	20	20	20	20	20	20	20	20	20	
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	
	3H	非数字	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	1.11	1.11	1.11	1.09	1.09	1.09	1.04	1.04	1.04	0.99	0.99	0.99	0.95	0.95	0.95	0.93
1	1.05	1.03	1.01	1.03	1.01	0.99	0.99	0.98	0.96	0.95	0.94	0.93	0.92	0.91	0.91	0.89
2	0.99	0.96	0.93	0.97	0.94	0.92	0.94	0.92	0.90	0.92	0.90	0.88	0.89	0.88	0.86	0.85
3	0.94	0.90	0.87	0.93	0.89	0.86	0.90	0.87	0.85	0.88	0.86	0.84	0.86	0.84	0.82	0.81
4	0.89	0.85	0.82	0.88	0.84	0.81	0.86	0.83	0.80	0.85	0.82	0.80	0.83	0.81	0.79	0.77
5	0.85	0.81	0.78	0.84	0.80	0.77	0.83	0.79	0.77	0.81	0.78	0.76	0.80	0.77	0.75	0.74
6	0.82	0.77	0.74	0.81	0.77	0.74	0.80	0.76	0.73	0.78	0.75	0.73	0.77	0.74	0.72	0.71
7	0.78	0.74	0.71	0.78	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.70	0.75	0.72	0.69	0.68
8	0.75	0.71	0.68	0.75	0.71	0.68	0.74	0.70	0.67	0.73	0.70	0.67	0.72	0.69	0.67	0.66
9	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.70	0.67	0.64	0.63
10	0.70	0.66	0.63	0.70	0.65	0.63	0.69	0.65	0.62	0.68	0.65	0.62	0.68	0.64	0.62	0.61





Luminaire Lumens:

FL=1630.9,FM=219.94,FH=14.98,FVH=1.51

BL=1684.97,BM=231.45,BH=15.34,BVH=1.56

UL=0,UH=0

BUG Rating:B3-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	13297.26	13113.40	12790.24	12333.37	10936.84	10936.84	10542.36	10003.01	9294.31
45.0	13397.55	13258.26	12968.54	12528.38	11999.07	11397.34	10790.03	10138.15	9452.84
90.0	13157.97	12756.81	12260.94	11067.19	11067.19	10536.26	9699.41	9115.49	8359.96
135.0	13430.98	13274.97	13029.82	12450.37	11904.36	11441.91	10806.74	10149.29	9458.41
180.0	13297.26	13358.55	13286.12	13046.54	12689.95	12205.22	11675.92	11113.18	10494.73
225.0	13414.27	13425.41	13297.26	13079.97	12701.10	12227.51	10833.76	10833.76	10444.33
270.0	13157.97	13380.84	13475.55	13442.12	13274.97	12951.82	12517.23	11987.93	11670.35
315.0	13430.98	13481.12	13408.69	13185.83	12834.82	12361.23	10956.92	10956.92	10568.01
360.0	13297.26	13113.40	12790.24	12333.37	10936.84	10936.84	10542.36	10003.01	9294.31
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	8568.37	7831.23	7101.35	6399.33	5726.79	5089.99	4499.93	3975.09	3531.04
45.0	8717.39	7965.22	7229.76	6527.74	5836.86	5190.55	4594.38	4059.51	3602.63
90.0	7468.50	6885.16	6171.42	5511.76	4874.91	4302.71	3797.38	3382.82	3033.49
135.0	8700.67	7948.50	7218.62	6511.02	5820.14	5162.69	4560.95	4031.65	3580.35
180.0	10110.29	9101.83	8656.10	7931.79	6917.75	6505.45	5814.57	5162.69	4577.67
225.0	9795.23	9075.34	8325.43	7585.50	6858.41	6160.27	5498.93	4869.34	4307.18
270.0	10834.60	10182.72	9781.57	9051.68	8310.66	7586.35	6862.03	6148.87	5485.84
315.0	9867.09	9150.55	8710.45	7669.66	6940.88	6517.96	5830.44	5194.17	4599.11
360.0	8568.37	7831.23	7101.35	6399.33	5726.79	5089.99	4499.93	3975.09	3531.04
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	3165.52	2851.83	2582.76	2347.07	2145.39	1960.95	1791.01	1627.23	1477.32
45.0	3223.76	3023.18	2839.32	2839.32	2252.36	2052.88	1877.37	1710.23	1548.65
90.0	2740.98	2469.65	2244.00	2057.87	1875.69	1706.34	1547.55	1393.75	1104.92
135.0	3201.48	2867.18	2817.03	2525.37	2239.53	2045.63	1866.81	1699.66	1540.29
180.0	4059.51	3602.63	3223.76	2895.04	2895.04	2349.86	2145.92	1967.62	1861.76
225.0	4009.63	3405.10	3191.17	2881.95	2607.26	2368.78	2173.25	1991.01	1819.45
270.0	4861.82	4304.66	3808.78	3396.48	3056.61	2817.03	2817.03	2264.02	2152.59
315.0	4066.45	3614.04	3234.64	2918.16	2644.05	2411.67	2208.31	2020.03	1852.30
360.0	3165.52	2851.83	2582.76	2347.07	2145.39	1960.95	1791.01	1627.23	1477.32
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1260.03	1096.77	1096.77	948.39	803.58	668.75	556.58	467.54	393.80
45.0	1401.00	1251.67	1104.02	956.95	813.77	681.16	566.94	491.72	398.69
90.0	1047.36	1018.87	871.28	730.88	608.41	508.86	430.80	362.10	302.97
135.0	1387.65	1241.63	1092.88	943.02	799.27	666.12	554.11	466.07	393.11
180.0	1640.58	1489.04	1397.64	1252.25	1104.60	951.91	808.73	672.80	559.11
225.0	1663.97	1513.54	1365.89	1050.83	1050.83	903.60	761.32	633.17	527.04
270.0	1914.17	1817.19	1659.50	1506.86	1361.42	1217.14	1072.85	925.73	779.76
315.0	1685.15	1531.36	1378.71	1056.93	1056.93	968.78	822.97	688.04	567.73
360.0	1260.03	1096.77	1096.77	948.39	803.58	668.75	556.58	467.54	393.80
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	331.98	277.85	231.75	192.54	159.16	132.67	110.75	96.56	79.53
45.0	346.86	290.57	290.57	200.42	166.36	138.08	114.59	95.87	81.10
90.0	252.25	209.36	172.98	143.44	118.53	98.98	83.21	73.75	63.34
135.0	329.57	286.10	286.10	196.79	164.10	136.82	114.48	96.14	81.84
180.0	468.86	391.96	329.57	295.03	295.03	186.02	153.90	132.14	110.07
225.0	475.38	372.62	334.98	278.42	230.64	189.49	155.74	128.78	106.39
270.0	647.73	541.29	452.14	376.40	311.75	287.78	276.64	177.24	140.18
315.0	476.74	401.58	336.19	282.52	234.69	194.95	161.26	133.77	111.01
360.0	331.98	277.85	231.75	192.54	159.16	132.67	110.75	96.56	79.53

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	71.17	63.13	56.03	52.67	49.67	46.83	44.15	41.94	40.32
45.0	70.49	62.50	56.35	51.93	48.67	45.99	44.63	42.10	40.32
90.0	57.19	53.40	49.83	47.10	44.57	42.05	40.16	38.69	37.53
135.0	71.22	63.29	57.08	52.62	49.51	46.99	44.47	42.05	40.26
180.0	88.88	78.32	68.28	60.76	55.09	50.93	47.78	45.10	42.79
225.0	88.57	74.85	65.02	57.77	52.51	48.62	45.73	43.26	40.95
270.0	120.21	99.66	80.32	71.12	62.23	55.56	50.83	47.78	45.15
315.0	92.56	78.21	71.75	60.39	56.61	52.04	47.57	46.04	43.63
360.0	71.17	63.13	56.03	52.67	49.67	46.83	44.15	41.94	40.32
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	38.74	36.90	34.80	33.06	31.85	30.07	27.86	25.44	24.07
45.0	38.95	37.53	35.85	33.85	32.48	30.96	28.96	26.54	24.65
90.0	35.85	33.90	32.43	31.27	29.54	27.07	24.97	23.55	22.13
135.0	39.00	37.42	35.22	33.38	32.64	31.22	29.38	26.96	25.02
180.0	40.74	39.26	37.74	36.11	34.11	32.54	31.12	29.28	28.12
225.0	39.79	37.79	37.11	35.53	32.75	31.80	30.54	28.86	26.54
270.0	42.73	40.53	38.84	37.48	36.16	34.32	32.54	31.80	29.91
315.0	41.31	39.79	38.42	36.74	34.85	33.06	31.75	30.12	27.91
360.0	38.74	36.90	34.80	33.06	31.85	30.07	27.86	25.44	24.07
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	22.71	21.71	18.66	17.14	16.45	15.03	14.09	12.46	11.35
45.0	23.29	21.66	19.71	17.87	16.71	15.51	14.14	12.46	11.30
90.0	20.18	18.19	16.98	15.77	15.03	13.46	11.51	10.88	10.04
135.0	23.55	22.02	20.13	18.29	17.03	15.93	14.56	12.88	11.72
180.0	25.07	23.65	22.65	20.29	19.03	17.40	16.29	15.14	13.67
225.0	24.39	22.92	21.60	19.92	17.98	16.61	15.35	14.09	12.62
270.0	27.75	26.28	23.86	22.44	21.55	19.66	17.87	16.61	15.45
315.0	25.60	24.18	22.71	21.03	18.92	17.56	16.35	15.09	13.93
360.0	22.71	21.71	18.66	17.14	16.45	15.03	14.09	12.46	11.35
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	10.35	9.57	8.73	7.88	7.25	6.57	5.94	5.26	4.63
45.0	10.35	9.67	8.67	7.99	7.31	6.68	6.04	5.41	4.73
90.0	9.20	8.25	7.52	6.83	6.25	5.57	4.89	4.31	3.78
135.0	10.83	9.93	9.04	8.20	7.57	6.99	6.15	5.68	4.99
180.0	12.14	11.14	10.25	9.41	8.52	7.78	7.10	6.47	5.83
225.0	11.35	10.41	9.57	8.88	7.94	7.31	6.78	5.94	5.52
270.0	14.14	12.51	11.41	10.51	9.67	8.83	7.94	7.31	6.68
315.0	12.14	11.35	10.46	9.57	8.73	7.99	7.36	6.62	5.94
360.0	10.35	9.57	8.73	7.88	7.25	6.57	5.94	5.26	4.63
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	4.10	3.68	3.05	2.63	2.21	1.84	1.52	1.31	1.05
45.0	4.15	3.68	3.05	2.52	2.21	1.84	1.47	1.21	1.05
90.0	3.21	2.84	2.37	2.05	1.73	1.42	1.10	1.05	1.00
135.0	4.26	3.73	3.21	2.73	2.16	1.89	1.52	1.16	1.00
180.0	5.26	4.63	3.99	3.36	2.89	2.47	2.05	1.79	1.31
225.0	4.89	4.31	3.84	3.26	2.84	2.31	1.94	1.58	1.31
270.0	5.99	5.41	4.73	4.05	3.57	3.00	2.68	2.05	1.79
315.0	5.41	4.73	4.21	3.63	3.10	2.68	2.10	1.73	1.42
360.0	4.10	3.68	3.05	2.63	2.21	1.84	1.52	1.31	1.05

Intensity data(cd)

C/ γ (°)	90.0
0.0	1.10
45.0	1.05
90.0	1.00
135.0	1.05
180.0	1.05
225.0	1.16
270.0	1.42
315.0	1.26
360.0	1.10