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Nata

LumCAT: 1-0922-M	
Luminaire: 92.70.123.00	
Report No: NATA0100	Voltage(V): 35.6500
Test No: GC2020021901	Current(A): 0.3000
LampCAT: BRIDGELUX V6 HD	Power (W): 10.7000
Lamp flux(lm): 1057.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 30	Width(mm): 30
Phm Type: C	Height(mm): 28

Photometric Results

Lumens(lm): 810.57
Efficiency(%): 76.69%
Lumens(lm)/Power(W): 75.75
Central intensity(cd): 5775.610
Maximum intensity(cd): 5775.610
Angle of maximum intensity: C=0.0 γ =0.0
Beam Angle(50%Imax): [C0/180]Total=17.1
[C90/270]Total=17.1
Field angle(10%Imax): [C0/180]Total=40.1
[C90/270]Total=40.1
Maximum s/h(1/2): C0_180=0.29 C90_270=0.29
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(%): 76.69%
Up flux rate of LUM(%): - -
Down flux rate of LUM(%): 100.00%
CIE Type : Direct lighting
Output flux ratio in π solid angle : 98.645%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5775.609	0.000	0	.000%	.000%
1.0	5740.805	5.510	5.51	.521%	.680%
2.0	5603.906	16.283	21.793	1.540%	2.689%
3.0	5349.234	26.196	47.99	2.478%	5.921%
4.0	5016.234	34.697	82.686	3.283%	10.201%
5.0	4585.008	41.304	123.99	3.908%	15.297%
6.0	4067.367	45.471	169.461	4.302%	20.906%
7.0	3582.563	47.483	216.944	4.492%	26.764%
8.0	3123.492	47.994	264.938	4.541%	32.685%
9.0	2684.109	47.067	312.005	4.453%	38.492%
10.0	2302.664	45.128	357.134	4.269%	44.060%
11.0	1989.281	42.885	400.019	4.057%	49.351%
12.0	1729.898	40.656	440.675	3.846%	54.366%
13.0	1493.086	38.249	478.924	3.619%	59.085%
14.0	1287.021	35.585	514.509	3.367%	63.475%
15.0	1129.887	33.180	547.689	3.139%	67.569%
16.0	1016.747	31.454	579.143	2.976%	71.449%
17.0	888.061	29.663	608.806	2.806%	75.109%
18.0	777.888	27.468	636.274	2.599%	78.497%
19.0	681.645	25.393	661.667	2.402%	81.630%
20.0	582.848	23.144	684.811	2.190%	84.485%
21.0	496.167	20.719	705.53	1.960%	87.042%
22.0	424.167	18.495	724.025	1.750%	89.323%
23.0	347.027	16.182	740.206	1.531%	91.320%
24.0	276.110	13.624	753.83	1.289%	93.000%
25.0	220.992	11.303	765.133	1.069%	94.395%
26.0	156.305	8.906	774.04	.843%	95.494%
27.0	110.039	6.516	780.556	.616%	96.297%
28.0	67.359	4.491	785.047	.425%	96.852%
29.0	35.184	2.683	787.73	.254%	97.183%
30.0	16.031	1.383	789.113	.131%	97.353%
31.0	8.367	0.679	789.792	.064%	97.437%
32.0	6.771	0.434	790.225	.041%	97.490%
33.0	6.237	0.383	790.609	.036%	97.538%
34.0	5.906	0.367	790.976	.035%	97.583%
35.0	5.576	0.357	791.333	.034%	97.627%
36.0	5.344	0.348	791.68	.033%	97.670%
37.0	5.126	0.341	792.022	.032%	97.712%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	4.943	0.336	792.358	.032%	97.754%
39.0	4.781	0.332	792.69	.031%	97.794%
40.0	4.641	0.329	793.018	.031%	97.835%
41.0	4.507	0.326	793.344	.031%	97.875%
42.0	4.416	0.324	793.668	.031%	97.915%
43.0	4.296	0.323	793.991	.031%	97.955%
44.0	4.226	0.322	794.313	.030%	97.995%
45.0	4.148	0.322	794.635	.030%	98.034%
46.0	4.078	0.322	794.956	.030%	98.074%
47.0	4.022	0.322	795.278	.030%	98.114%
48.0	3.966	0.323	795.601	.031%	98.154%
49.0	3.916	0.324	795.925	.031%	98.194%
50.0	3.867	0.325	796.25	.031%	98.234%
51.0	3.825	0.325	796.575	.031%	98.274%
52.0	3.790	0.327	796.902	.031%	98.314%
53.0	3.769	0.329	797.231	.031%	98.355%
54.0	3.727	0.330	797.561	.031%	98.395%
55.0	3.713	0.332	797.893	.031%	98.436%
56.0	3.684	0.334	798.227	.032%	98.478%
57.0	3.663	0.336	798.563	.032%	98.519%
58.0	3.642	0.338	798.901	.032%	98.561%
59.0	3.621	0.340	799.241	.032%	98.603%
60.0	3.628	0.342	799.583	.032%	98.645%
61.0	3.600	0.345	799.928	.033%	98.687%
62.0	3.579	0.346	800.274	.033%	98.730%
63.0	3.565	0.347	800.621	.033%	98.773%
64.0	3.565	0.350	800.971	.033%	98.816%
65.0	3.544	0.352	801.323	.033%	98.860%
66.0	3.544	0.354	801.677	.033%	98.903%
67.0	3.523	0.355	802.032	.034%	98.947%
68.0	3.509	0.356	802.388	.034%	98.991%
69.0	3.516	0.358	802.746	.034%	99.035%
70.0	3.502	0.360	803.107	.034%	99.080%
71.0	3.502	0.362	803.469	.034%	99.124%
72.0	3.509	0.365	803.833	.034%	99.169%
73.0	3.495	0.366	804.2	.035%	99.214%
74.0	3.495	0.367	804.567	.035%	99.260%
75.0	3.480	0.369	804.935	.035%	99.305%

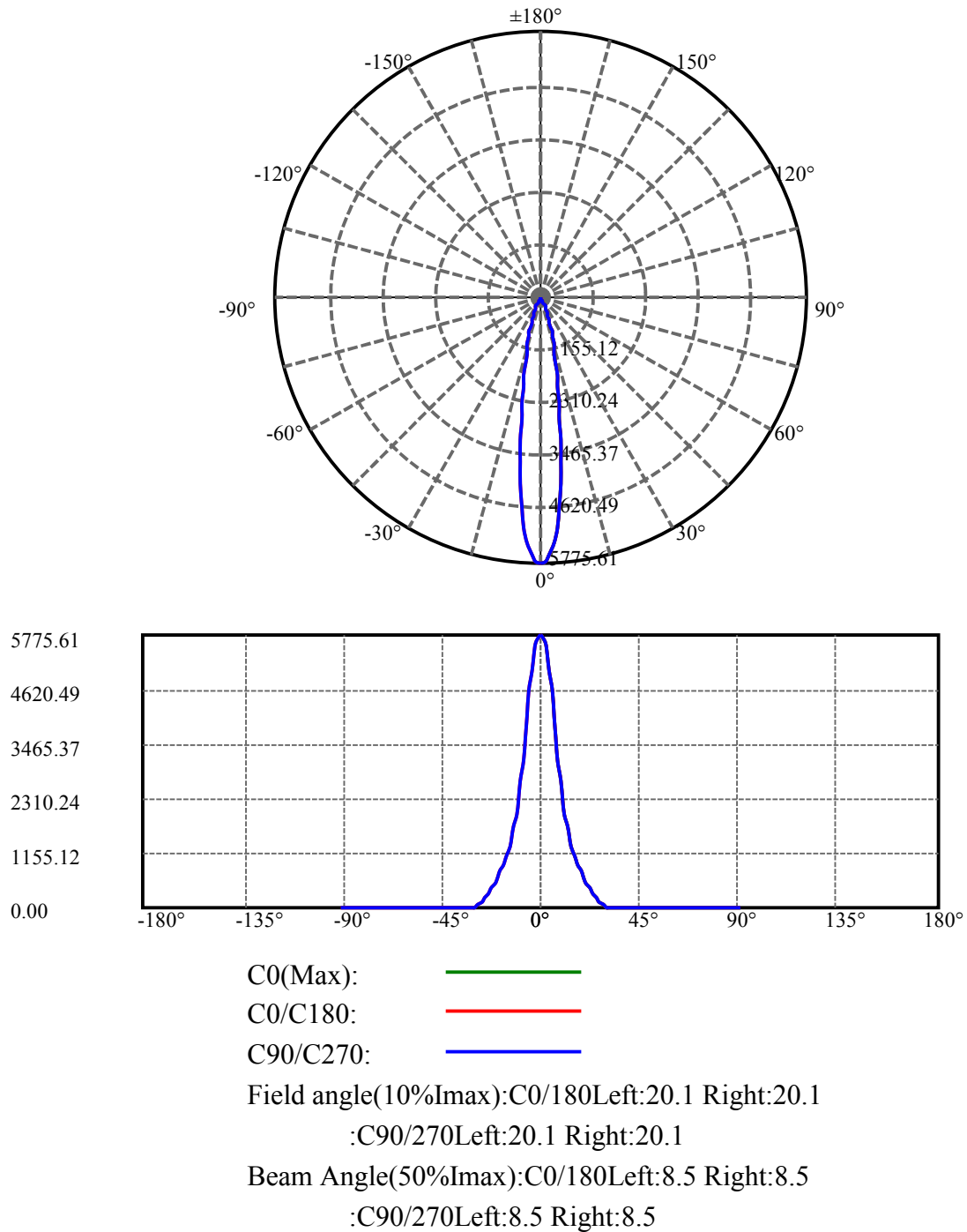
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	3.480	0.370	805.305	.035%	99.351%
77.0	3.473	0.371	805.676	.035%	99.397%
78.0	3.473	0.372	806.048	.035%	99.442%
79.0	3.459	0.372	806.42	.035%	99.488%
80.0	3.466	0.373	806.793	.035%	99.534%
81.0	3.473	0.375	807.169	.036%	99.581%
82.0	3.466	0.376	807.545	.036%	99.627%
83.0	3.473	0.377	807.922	.036%	99.674%
84.0	3.452	0.377	808.3	.036%	99.720%
85.0	3.459	0.377	808.677	.036%	99.767%
86.0	3.466	0.379	809.055	.036%	99.814%
87.0	3.452	0.379	809.434	.036%	99.860%
88.0	3.452	0.378	809.812	.036%	99.907%
89.0	3.438	0.378	810.19	.036%	99.953%
90.0	3.438	0.377	810.567	.036%	100.000%

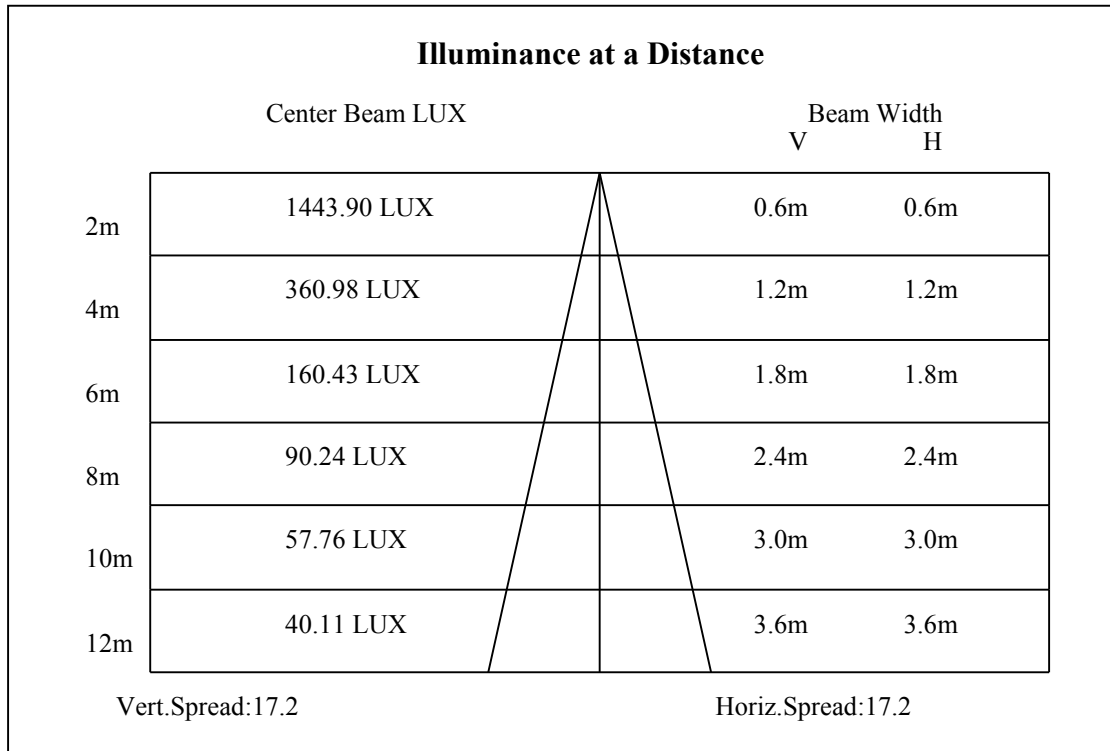
ZONAL LUMEN SUMMARY

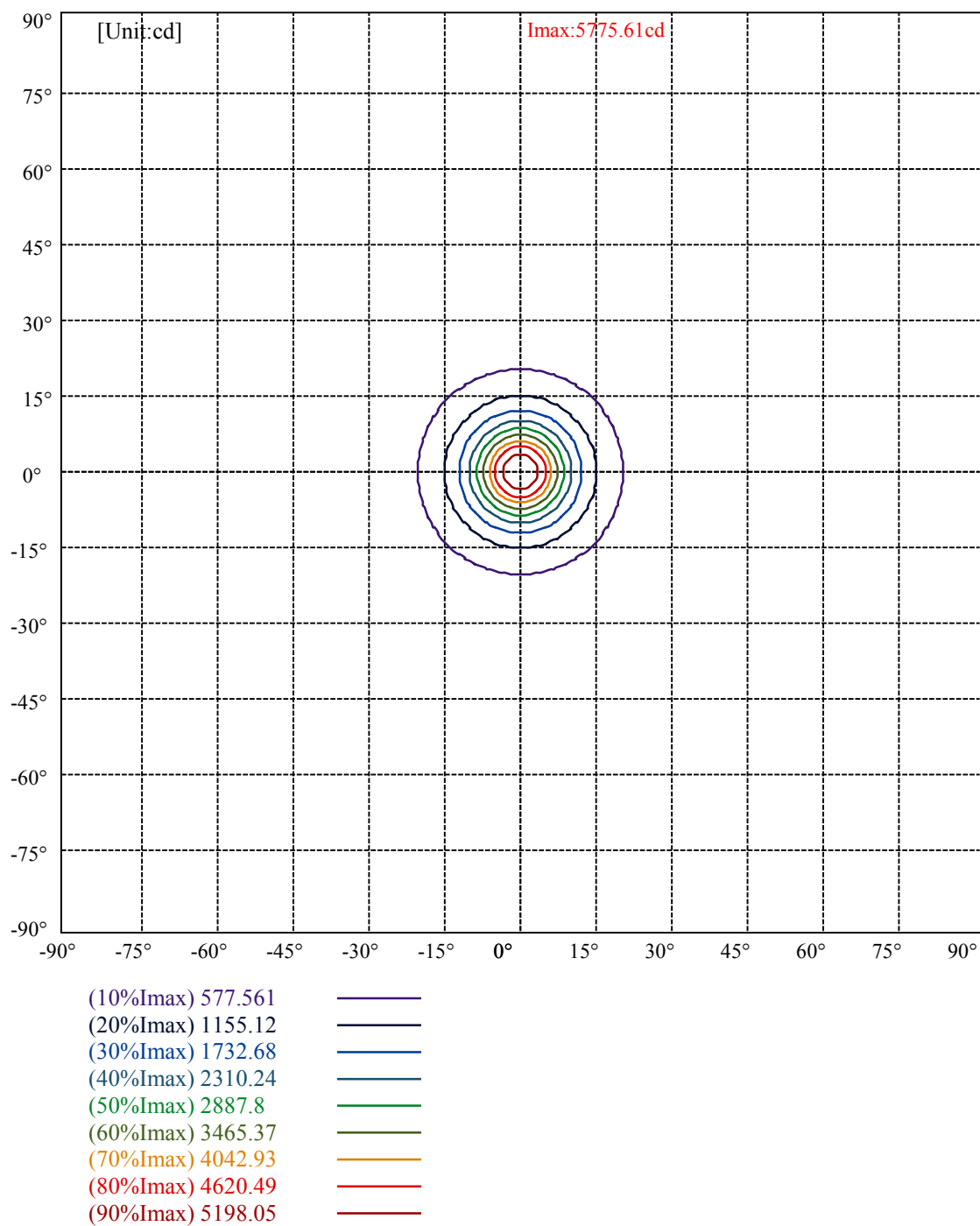
Zone	Lumens	%Lamp	%Fixt
0-30	789.11	74.66%	97.35%
0-40	793.02	75.03%	97.84%
0-60	799.58	75.65%	98.64%
0-90	810.19	76.65%	99.95%
0-120	810.19	76.65%	99.95%
0-180	810.57	76.69%	100.00%
60-90	10.95	1.04%	1.35%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-18.48	648.45	61.35%	80.00%

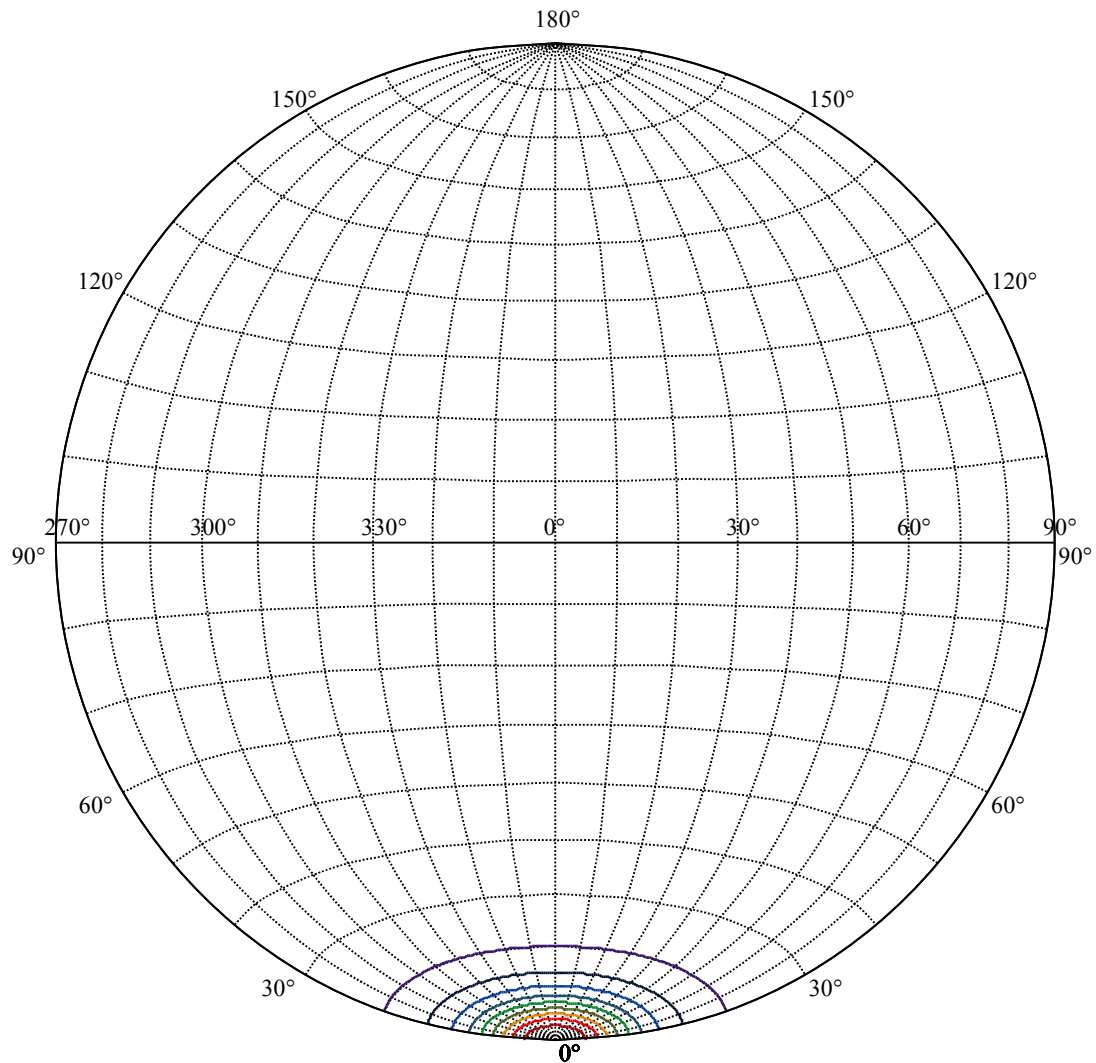
ZONAL LUMEN SUMMARY

0-10	357.13
10-20	327.68
20-30	104.30
30-40	3.91
40-50	3.23
50-60	3.33
60-70	3.52
70-80	3.69
80-90	3.40
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









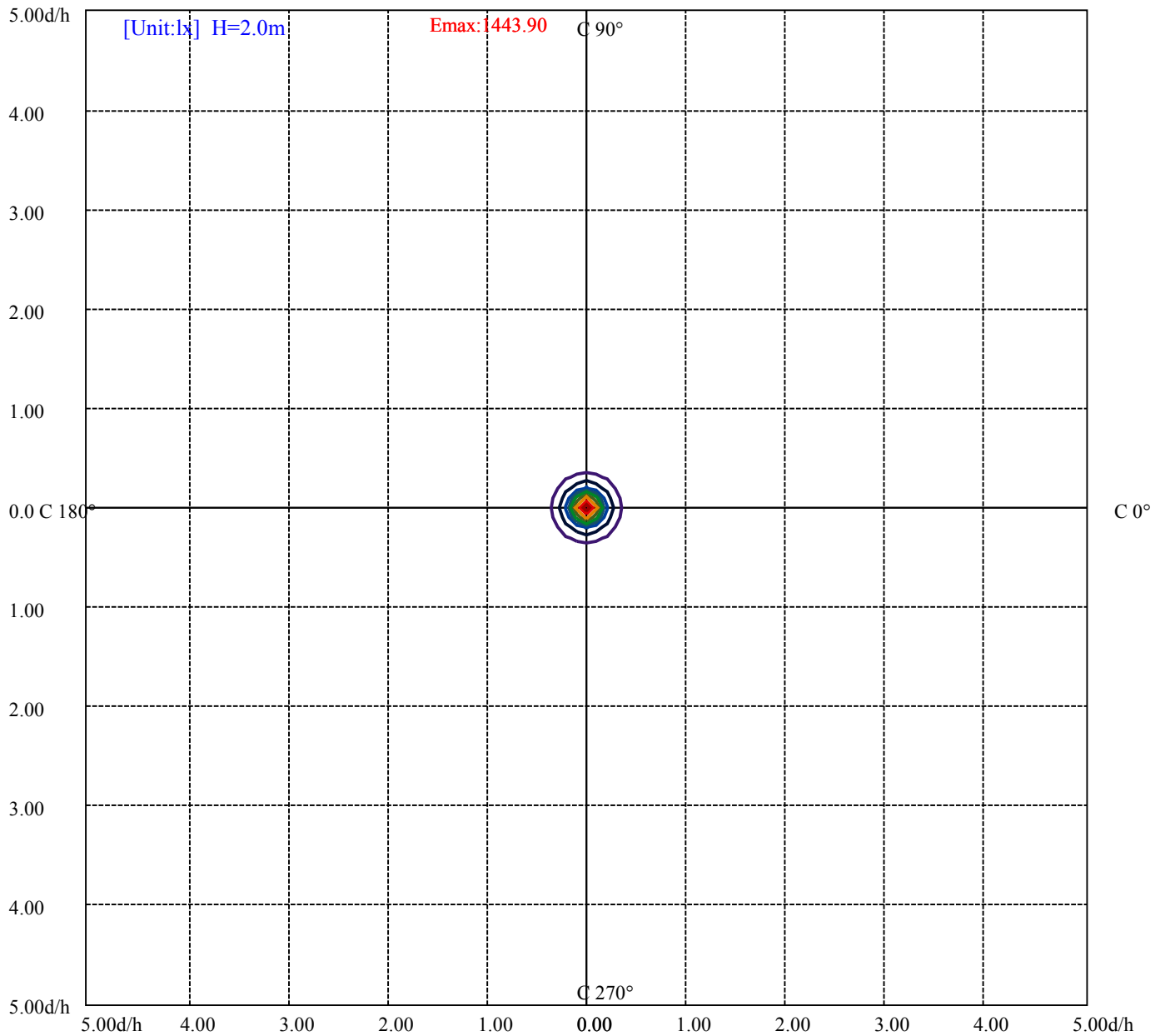
House

[Unit:cd]

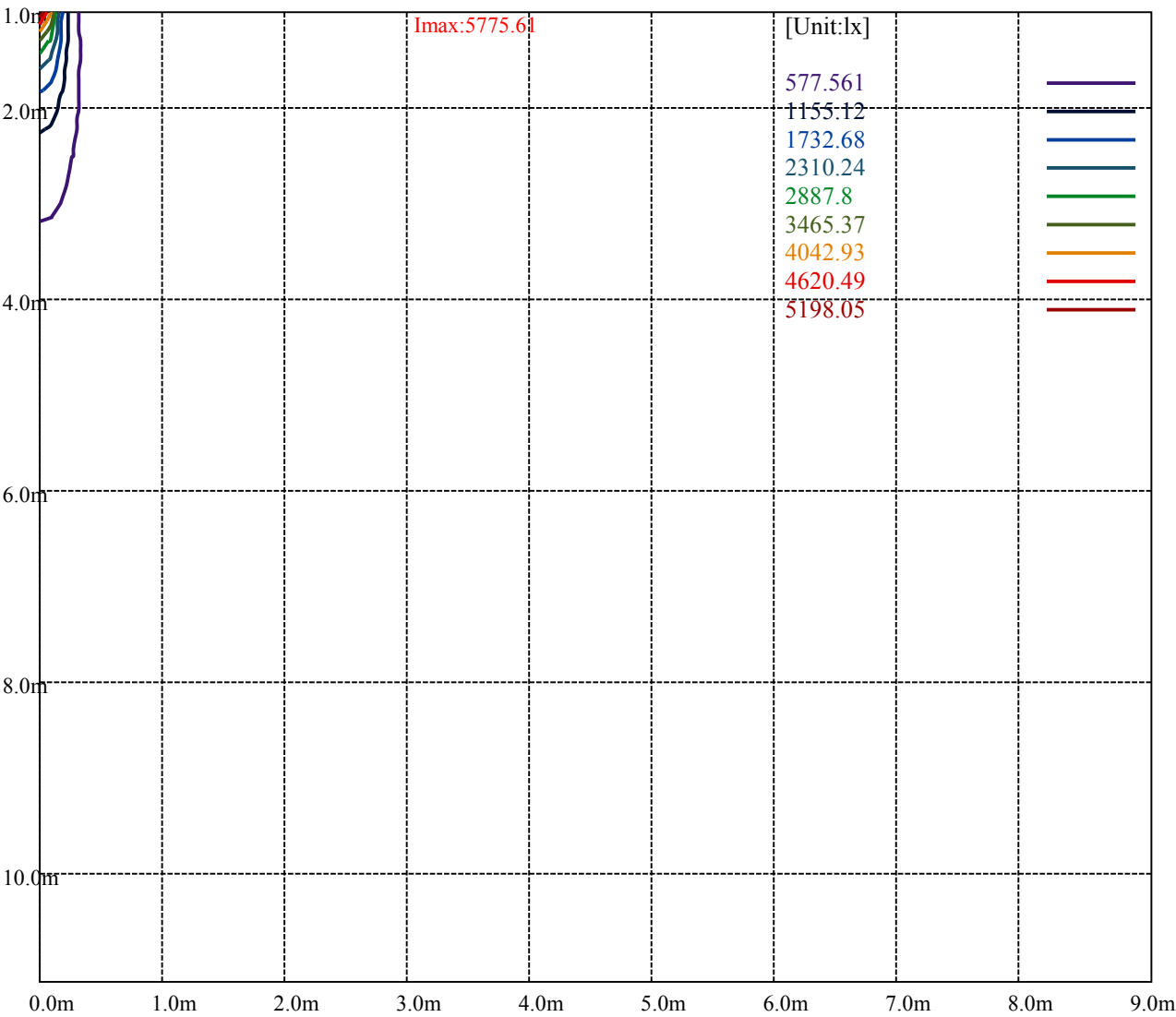
Road

Imax:5775.61

(10%Imax)	577.561	—
(20%Imax)	1155.12	—
(30%Imax)	1732.68	—
(40%Imax)	2310.24	—
(50%Imax)	2887.8	—
(60%Imax)	3465.37	—
(70%Imax)	4042.93	—
(80%Imax)	4620.49	—
(90%Imax)	5198.05	—



(10%Emax)	144.39	
(20%Emax)	288.78	
(30%Emax)	433.17	
(40%Emax)	577.56	
(50%Emax)	721.95	
(60%Emax)	866.34	
(70%Emax)	1010.73	
(80%Emax)	1155.12	
(90%Emax)	1299.51	



Luminance Table

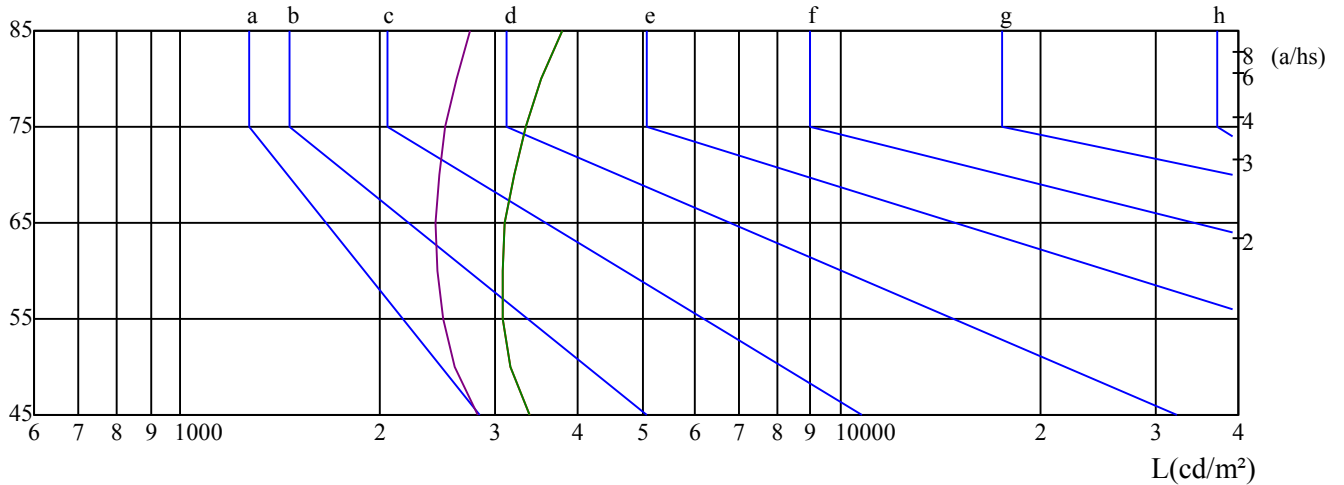
γ	45	50	55	60	65	70	75	80	85
C0	3372	3165	3083	3081	3104	3191	3333	3524	3780
C45	2810	2598	2493	2453	2432	2459	2521	2614	2741
C90	3372	3165	3083	3081	3104	3191	3333	3524	3780

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
9317	9317	9317	14942	14942	14942	44102	44102	44102

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

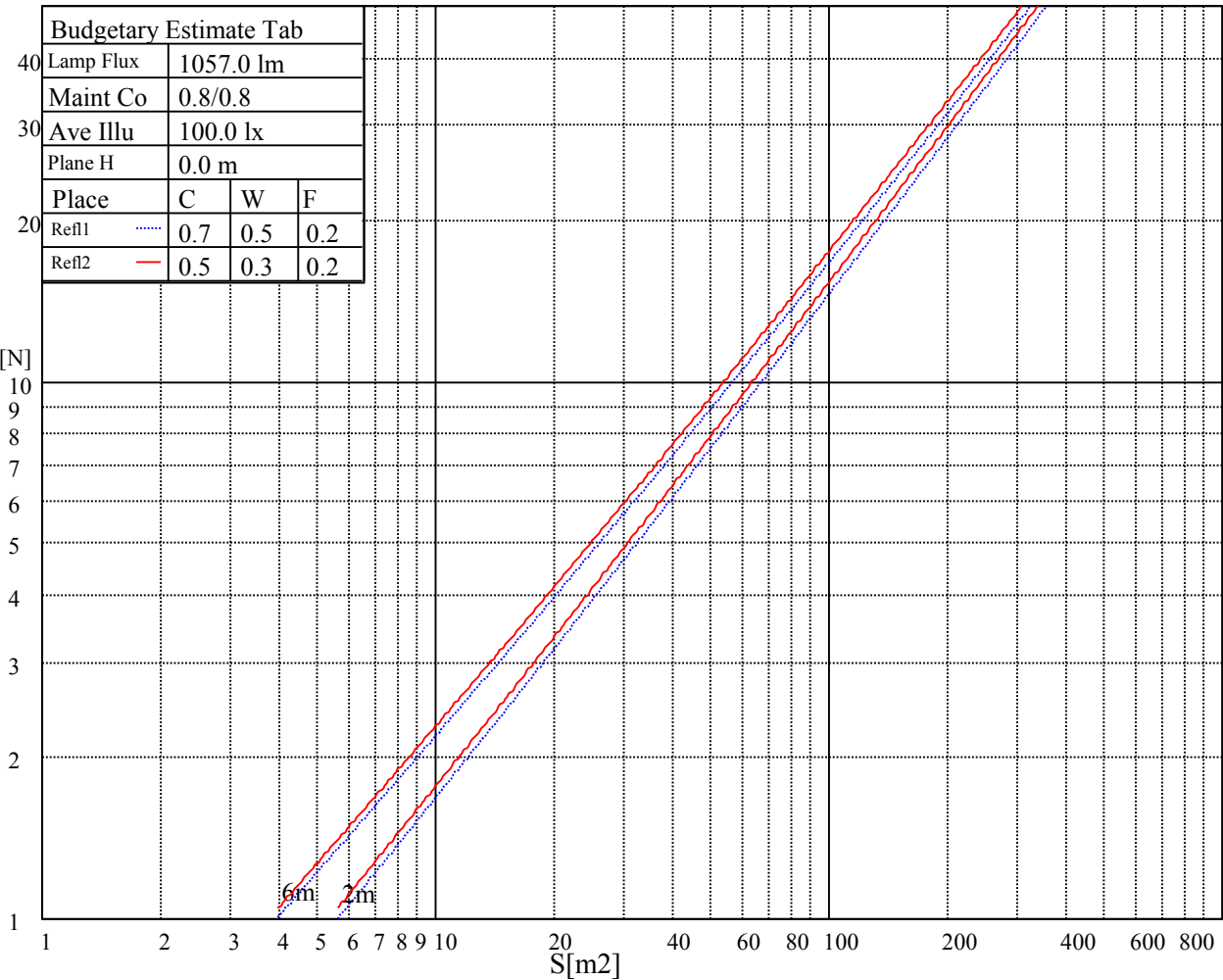
Luminance Limiting Curve

 $\gamma(^{\circ})$ 

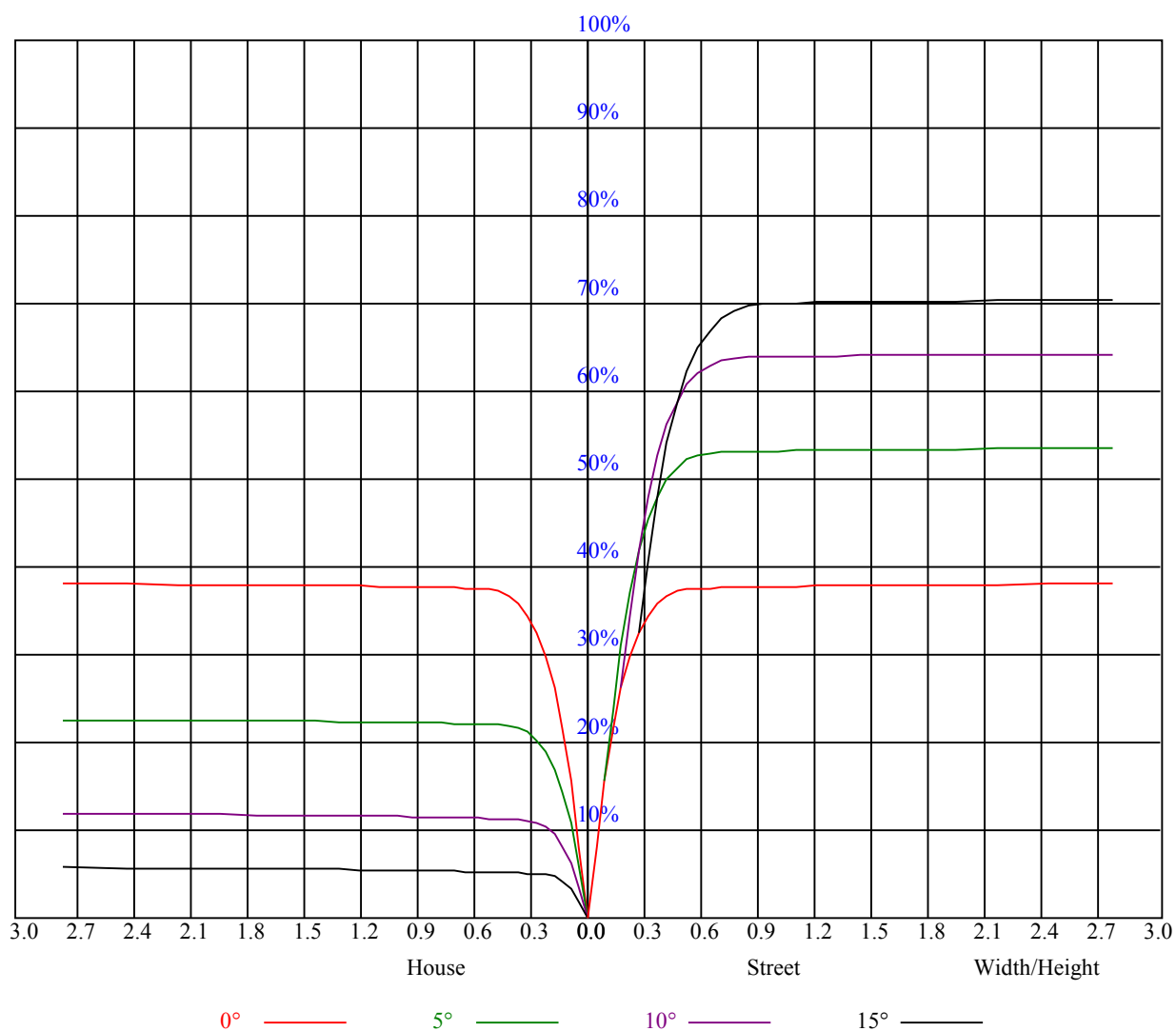
C0 ———

C45 ———

C90 ———



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	0.91	0.91	0.91	0.89	0.89	0.89	0.85	0.85	0.85	0.82	0.82	0.82	0.78	0.78	0.78	0.77
1	0.87	0.85	0.84	0.85	0.84	0.82	0.82	0.81	0.80	0.79	0.78	0.78	0.77	0.76	0.75	0.74
2	0.83	0.81	0.79	0.81	0.79	0.78	0.79	0.77	0.76	0.77	0.76	0.75	0.75	0.74	0.73	0.72
3	0.80	0.77	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.75	0.73	0.72	0.73	0.72	0.71	0.70
4	0.77	0.74	0.72	0.76	0.73	0.71	0.74	0.72	0.71	0.73	0.71	0.70	0.72	0.70	0.69	0.68
5	0.74	0.71	0.69	0.74	0.71	0.69	0.72	0.70	0.68	0.71	0.69	0.68	0.70	0.69	0.67	0.66
6	0.72	0.69	0.67	0.72	0.69	0.67	0.71	0.68	0.66	0.70	0.68	0.66	0.69	0.67	0.66	0.65
7	0.70	0.67	0.65	0.70	0.67	0.65	0.69	0.66	0.65	0.68	0.66	0.64	0.67	0.66	0.64	0.63
8	0.68	0.65	0.63	0.68	0.65	0.63	0.67	0.65	0.63	0.67	0.64	0.63	0.66	0.64	0.63	0.62
9	0.67	0.64	0.62	0.66	0.64	0.62	0.66	0.63	0.62	0.65	0.63	0.61	0.65	0.63	0.61	0.61
10	0.65	0.62	0.61	0.65	0.62	0.60	0.64	0.62	0.60	0.64	0.62	0.60	0.64	0.61	0.60	0.59



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	5774.06	5774.63	5681.25	5469.75	5104.13	4698.56	4176.56	3640.50	3188.81
45.0	5780.81	5740.31	5534.44	5263.31	4957.31	4443.19	3915.00	3439.69	2947.50
90.0	5761.69	5663.25	5441.63	5112.00	4744.13	4321.69	3749.06	3295.13	2876.06
135.0	5785.88	5736.38	5596.88	5381.44	5018.63	4577.63	4141.13	3634.31	3206.25
180.0	5774.06	5702.63	5556.94	5250.94	4901.06	4488.75	3927.38	3471.19	3046.50
225.0	5780.81	5763.38	5654.81	5432.06	5142.38	4719.94	4227.19	3773.25	3272.63
270.0	5761.69	5784.75	5718.38	5557.50	5286.38	4875.75	4380.19	3915.56	3403.69
315.0	5785.88	5761.13	5646.94	5326.88	4975.88	4554.56	4022.44	3490.88	3046.50
360.0	5774.06	5774.63	5681.25	5469.75	5104.13	4698.56	4176.56	3640.50	3188.81

C/ γ (°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	2724.19	2317.50	2004.75	1744.31	1478.81	1300.50	1148.63	1002.94	877.50
45.0	2512.13	2167.88	1838.25	1602.00	1380.38	1195.31	1056.38	936.56	806.06
90.0	2457.00	2093.06	1821.94	1569.94	1359.00	1090.29	1041.86	925.09	807.53
135.0	2770.31	2377.13	2074.50	1818.56	1551.38	1369.13	1212.75	1049.06	934.88
180.0	2624.63	2258.44	1984.50	1724.63	1503.56	1333.69	1113.13	1036.29	909.73
225.0	2862.56	2449.69	2098.13	1833.75	1586.81	1381.50	1120.50	1088.78	953.49
270.0	2927.25	2549.25	2177.44	1899.56	1638.56	1419.75	1253.25	1125.00	955.13
315.0	2594.81	2208.38	1914.75	1646.44	1446.19	1206.00	1092.60	970.26	860.18
360.0	2724.19	2317.50	2004.75	1744.31	1478.81	1300.50	1148.63	1002.94	877.50

C/ γ (°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	777.94	675.00	579.38	501.19	421.31	348.19	289.69	204.98	156.60
45.0	707.06	610.31	509.06	439.31	372.38	295.31	247.84	173.98	123.53
90.0	697.16	606.99	524.64	434.98	363.71	298.01	223.76	170.66	126.45
135.0	826.31	721.69	605.81	529.31	459.56	364.50	300.94	292.50	169.71
180.0	791.10	690.69	598.78	504.34	430.93	356.85	272.36	212.46	165.32
225.0	836.44	738.68	645.24	540.17	465.75	394.03	305.61	241.82	185.63
270.0	848.81	761.63	636.19	551.81	486.56	394.88	317.25	284.06	182.42
315.0	738.28	648.17	563.68	468.23	393.13	324.45	251.44	187.48	140.79
360.0	777.94	675.00	579.38	501.19	421.31	348.19	289.69	204.98	156.60

C/ γ (°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	110.36	61.37	33.08	15.75	7.76	6.81	6.30	5.96	5.57
45.0	82.52	45.06	19.91	8.66	6.86	6.19	5.79	5.57	5.29
90.0	83.36	44.78	21.38	8.89	7.20	6.36	6.02	5.68	5.46
135.0	123.13	86.91	45.11	20.14	9.23	7.03	6.47	6.13	5.74
180.0	119.42	69.75	37.74	17.49	7.93	6.36	6.02	5.68	5.40
225.0	132.24	83.14	48.88	22.44	10.07	7.20	6.36	5.96	5.63
270.0	134.94	88.65	48.21	23.74	9.90	7.37	6.58	6.24	5.85
315.0	94.33	59.23	27.17	11.14	7.99	6.86	6.36	6.02	5.68
360.0	110.36	61.37	33.08	15.75	7.76	6.81	6.30	5.96	5.57

C/ γ (°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	5.34	5.12	4.89	4.73	4.61	4.50	4.33	4.28	4.16
45.0	5.12	4.95	4.78	4.61	4.50	4.39	4.33	4.22	4.16
90.0	5.23	5.01	4.84	4.73	4.61	4.44	4.39	4.28	4.22
135.0	5.51	5.29	5.06	4.95	4.78	4.61	4.50	4.39	4.33
180.0	5.18	4.95	4.84	4.67	4.56	4.44	4.39	4.22	4.16
225.0	5.34	5.12	4.95	4.78	4.61	4.50	4.44	4.28	4.22
270.0	5.57	5.34	5.18	4.95	4.78	4.61	4.50	4.39	4.33
315.0	5.46	5.23	5.01	4.84	4.67	4.56	4.44	4.33	4.22
360.0	5.34	5.12	4.89	4.73	4.61	4.50	4.33	4.28	4.16

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	4.11	4.05	3.99	3.94	3.88	3.83	3.77	3.77	3.71
45.0	4.11	4.05	3.94	3.94	3.88	3.83	3.83	3.77	3.77
90.0	4.11	4.05	3.99	3.94	3.88	3.88	3.83	3.77	3.77
135.0	4.22	4.16	4.11	3.99	3.99	3.94	3.88	3.83	3.83
180.0	4.11	3.99	3.99	3.94	3.88	3.77	3.77	3.71	3.71
225.0	4.11	4.05	3.99	3.94	3.88	3.88	3.83	3.83	3.77
270.0	4.28	4.16	4.05	4.05	3.99	3.94	3.88	3.83	3.83
315.0	4.16	4.11	4.11	3.99	3.94	3.88	3.83	3.83	3.77
360.0	4.11	4.05	3.99	3.94	3.88	3.83	3.77	3.77	3.71
C/ γ (°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	3.71	3.71	3.66	3.60	3.60	3.60	3.60	3.60	3.54
45.0	3.71	3.66	3.71	3.66	3.66	3.60	3.66	3.60	3.54
90.0	3.77	3.71	3.71	3.66	3.71	3.66	3.60	3.60	3.60
135.0	3.71	3.71	3.71	3.71	3.66	3.66	3.60	3.66	3.60
180.0	3.66	3.66	3.66	3.66	3.54	3.54	3.60	3.54	3.54
225.0	3.77	3.71	3.66	3.66	3.66	3.60	3.66	3.54	3.60
270.0	3.77	3.77	3.71	3.71	3.71	3.66	3.66	3.66	3.60
315.0	3.71	3.77	3.66	3.66	3.60	3.66	3.66	3.60	3.60
360.0	3.71	3.71	3.66	3.60	3.60	3.60	3.60	3.60	3.54
C/ γ (°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	3.54	3.54	3.54	3.54	3.49	3.49	3.49	3.49	3.43
45.0	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54	3.54
90.0	3.60	3.60	3.60	3.54	3.54	3.49	3.49	3.49	3.49
135.0	3.54	3.60	3.54	3.54	3.49	3.54	3.54	3.49	3.49
180.0	3.54	3.54	3.49	3.49	3.49	3.49	3.49	3.49	3.49
225.0	3.60	3.54	3.54	3.54	3.54	3.49	3.54	3.49	3.54
270.0	3.60	3.60	3.54	3.60	3.54	3.54	3.54	3.54	3.54
315.0	3.54	3.54	3.54	3.54	3.54	3.49	3.49	3.49	3.49
360.0	3.54	3.54	3.54	3.54	3.49	3.49	3.49	3.49	3.43
C/ γ (°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	3.43	3.43	3.49	3.49	3.49	3.49	3.43	3.43	3.43
45.0	3.54	3.49	3.49	3.49	3.54	3.49	3.49	3.49	3.49
90.0	3.54	3.49	3.49	3.49	3.49	3.49	3.49	3.43	3.49
135.0	3.54	3.54	3.49	3.49	3.49	3.43	3.49	3.49	3.43
180.0	3.49	3.49	3.43	3.43	3.43	3.43	3.43	3.43	3.43
225.0	3.54	3.49	3.54	3.49	3.49	3.49	3.49	3.49	3.49
270.0	3.49	3.54	3.54	3.49	3.49	3.49	3.49	3.49	3.49
315.0	3.49	3.49	3.49	3.49	3.43	3.49	3.49	3.43	3.49
360.0	3.43	3.43	3.49	3.49	3.49	3.49	3.43	3.43	3.43
C/ γ (°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.43	3.43	3.43	3.43	3.43	3.49	3.43	3.43	3.43
45.0	3.49	3.49	3.49	3.43	3.49	3.49	3.49	3.49	3.49
90.0	3.49	3.49	3.49	3.49	3.43	3.43	3.43	3.43	3.43
135.0	3.49	3.49	3.49	3.43	3.49	3.49	3.43	3.49	3.43
180.0	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43	3.43
225.0	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.49	3.43
270.0	3.49	3.49	3.49	3.49	3.43	3.49	3.43	3.43	3.43
315.0	3.49	3.43	3.49	3.43	3.49	3.43	3.49	3.43	3.43
360.0	3.43	3.43	3.43	3.43	3.43	3.49	3.43	3.43	3.43

Intensity data(cd)

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C/γ(°)	90.0
0.0	3.38
45.0	3.49
90.0	3.43
135.0	3.43
180.0	3.43
225.0	3.49
270.0	3.43
315.0	3.43
360.0	3.38