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NT

Client:

LumCAT: 2-2643-L

Luminaire: 92.70.412.00

Report No: 20231117-B022

Ballast type: AC

Test No: 20231117-C022

Voltage(V): 35.890

LampCAT: P2141-036-1206-P3090-1

Current(A): 0.700

Lamp flux(lm): 3111.0

Power (W): 25.123

Number of Lamps: 1

PF: 0.000

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

Photometric Results

Lumens(lm): 2941.44, Efficiency(%): 94.55% , Luminous Efficacy(lm/W): 117.08

Central intensity(cd): 13929.730, Maximum intensity(cd): 13929.730

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=19.4

[C90/270]Total=19.4

Field angle(10%Imax): [C0/180]Total=49.2

[C90/270]Total=49.2

Maximum s/h(1/2): C0_180=0.33 C90_270=0.33

Maximum s/h(1/4): C0_180=0.37 C90_270=0.37

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 94.55%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 97.980%

Equipment: GMS1980
Temperature(°C): 0.0

Date: 2023/11/17
Humidity(%): 0.0%

Operator: NT07
Distance(m): 7.44

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	13929.733	0.000	0	0.00%	0.00%
1.0	13823.178	13.279	13.279	0.43%	0.45%
2.0	13463.379	39.164	52.444	1.26%	1.78%
3.0	12645.668	62.444	114.888	2.01%	3.91%
4.0	11987.722	82.456	197.344	2.65%	6.71%
5.0	11237.473	99.914	297.257	3.21%	10.11%
6.0	10529.085	114.389	411.646	3.68%	13.99%
7.0	9577.557	124.802	536.448	4.01%	18.24%
8.0	8569.706	129.876	666.324	4.17%	22.65%
9.0	7560.817	130.729	797.053	4.20%	27.10%
10.0	6691.628	128.979	926.033	4.15%	31.48%
11.0	5884.710	125.663	1051.696	4.04%	35.75%
12.0	5138.198	120.496	1172.192	3.87%	39.85%
13.0	4521.351	114.634	1286.827	3.68%	43.75%
14.0	4037.561	109.553	1396.38	3.52%	47.47%
15.0	3635.486	105.339	1501.719	3.39%	51.05%
16.0	3261.988	101.067	1602.787	3.25%	54.49%
17.0	2957.404	96.853	1699.639	3.11%	57.78%
18.0	2731.977	93.806	1793.445	3.02%	60.97%
19.0	2564.325	92.145	1885.59	2.96%	64.10%
20.0	2308.038	89.178	1974.767	2.87%	67.14%
21.0	2022.551	83.156	2057.923	2.67%	69.96%
22.0	1837.878	77.577	2135.5	2.49%	72.60%
23.0	1675.138	73.713	2209.213	2.37%	75.11%
24.0	1467.943	68.719	2277.932	2.21%	77.44%
25.0	1346.442	63.993	2341.925	2.06%	79.62%
26.0	1182.554	59.697	2401.622	1.92%	81.65%
27.0	1078.288	55.312	2456.934	1.78%	83.53%
28.0	961.658	51.647	2508.581	1.66%	85.28%
29.0	828.567	46.837	2555.419	1.51%	86.88%
30.0	714.359	41.659	2597.077	1.34%	88.29%
31.0	612.944	36.937	2634.014	1.19%	89.55%
32.0	523.265	32.551	2666.565	1.05%	90.66%
33.0	435.667	28.250	2694.816	0.91%	91.62%
34.0	363.369	24.181	2718.997	0.78%	92.44%
35.0	303.109	20.698	2739.695	0.67%	93.14%
36.0	260.702	17.952	2757.647	0.58%	93.75%
37.0	211.797	15.410	2773.057	0.50%	94.28%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	184.224	13.219	2786.276	0.42%	94.72%
39.0	136.274	10.939	2797.215	0.35%	95.10%
40.0	115.101	8.767	2805.982	0.28%	95.39%
41.0	97.180	7.559	2813.542	0.24%	95.65%
42.0	81.522	6.493	2820.034	0.21%	95.87%
43.0	70.306	5.624	2825.658	0.18%	96.06%
44.0	61.885	4.989	2830.648	0.16%	96.23%
45.0	55.381	4.507	2835.154	0.14%	96.39%
46.0	50.552	4.143	2839.297	0.13%	96.53%
47.0	46.566	3.863	2843.16	0.12%	96.66%
48.0	43.466	3.640	2846.799	0.12%	96.78%
49.0	40.623	3.453	2850.253	0.11%	96.90%
50.0	38.284	3.290	2853.542	0.11%	97.01%
51.0	36.305	3.156	2856.698	0.10%	97.12%
52.0	34.575	3.042	2859.74	0.10%	97.22%
53.0	33.178	2.947	2862.687	0.09%	97.32%
54.0	32.015	2.873	2865.56	0.09%	97.42%
55.0	30.970	2.812	2868.372	0.09%	97.52%
56.0	30.182	2.763	2871.135	0.09%	97.61%
57.0	29.600	2.733	2873.869	0.09%	97.70%
58.0	29.144	2.717	2876.585	0.09%	97.80%
59.0	28.895	2.713	2879.298	0.09%	97.89%
60.0	28.694	2.721	2882.019	0.09%	97.98%
61.0	28.514	2.730	2884.749	0.09%	98.07%
62.0	28.216	2.734	2887.483	0.09%	98.17%
63.0	27.794	2.724	2890.207	0.09%	98.26%
64.0	27.123	2.695	2892.902	0.09%	98.35%
65.0	26.175	2.638	2895.539	0.08%	98.44%
66.0	25.137	2.560	2898.1	0.08%	98.53%
67.0	24.065	2.474	2900.574	0.08%	98.61%
68.0	22.840	2.376	2902.95	0.08%	98.69%
69.0	21.885	2.282	2905.231	0.07%	98.77%
70.0	20.993	2.202	2907.434	0.07%	98.84%
71.0	20.190	2.129	2909.562	0.07%	98.92%
72.0	19.450	2.061	2911.623	0.07%	98.99%
73.0	18.876	2.004	2913.627	0.06%	99.05%
74.0	18.350	1.957	2915.584	0.06%	99.12%
75.0	17.872	1.914	2917.498	0.06%	99.19%

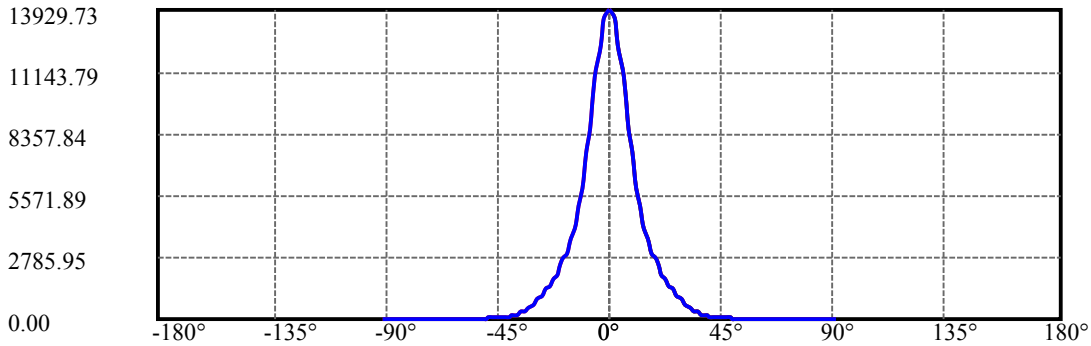
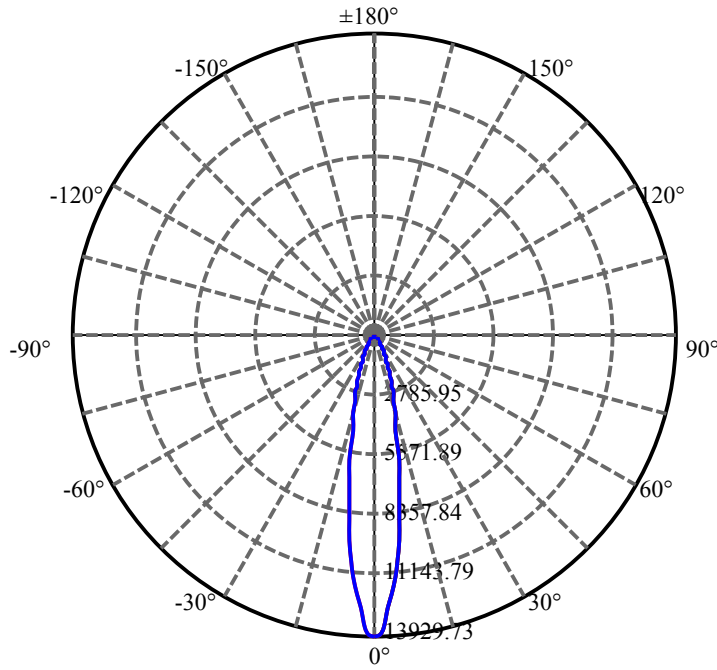
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	17.360	1.870	2919.369	0.06%	99.25%
77.0	16.904	1.827	2921.195	0.06%	99.31%
78.0	16.454	1.786	2922.981	0.06%	99.37%
79.0	16.004	1.744	2924.725	0.06%	99.43%
80.0	15.582	1.703	2926.428	0.05%	99.49%
81.0	15.174	1.663	2928.091	0.05%	99.55%
82.0	14.724	1.621	2929.712	0.05%	99.60%
83.0	14.344	1.580	2931.293	0.05%	99.65%
84.0	13.984	1.543	2932.836	0.05%	99.71%
85.0	13.589	1.505	2934.341	0.05%	99.76%
86.0	13.313	1.470	2935.811	0.05%	99.81%
87.0	13.063	1.444	2937.255	0.05%	99.86%
88.0	12.787	1.416	2938.671	0.05%	99.91%
89.0	12.634	1.393	2940.064	0.04%	99.95%
90.0	12.503	1.378	2941.442	0.04%	100.00%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	2597.08	83.48%	88.29%
0-40	2805.98	90.20%	95.39%
0-60	2882.02	92.64%	97.98%
0-90	2940.06	94.51%	99.95%
0-120	2940.06	94.51%	99.95%
0-180	2941.44	94.55%	100.00%
60-90	58.04	1.87%	1.97%
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%
0-25.19	2353.15	75.64%	80.00%

ZONAL LUMEN SUMMARY

0-10	926.03
10-20	1048.73
20-30	622.31
30-40	208.91
40-50	47.56
50-60	28.48
60-70	25.41
70-80	18.99
80-90	13.64
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



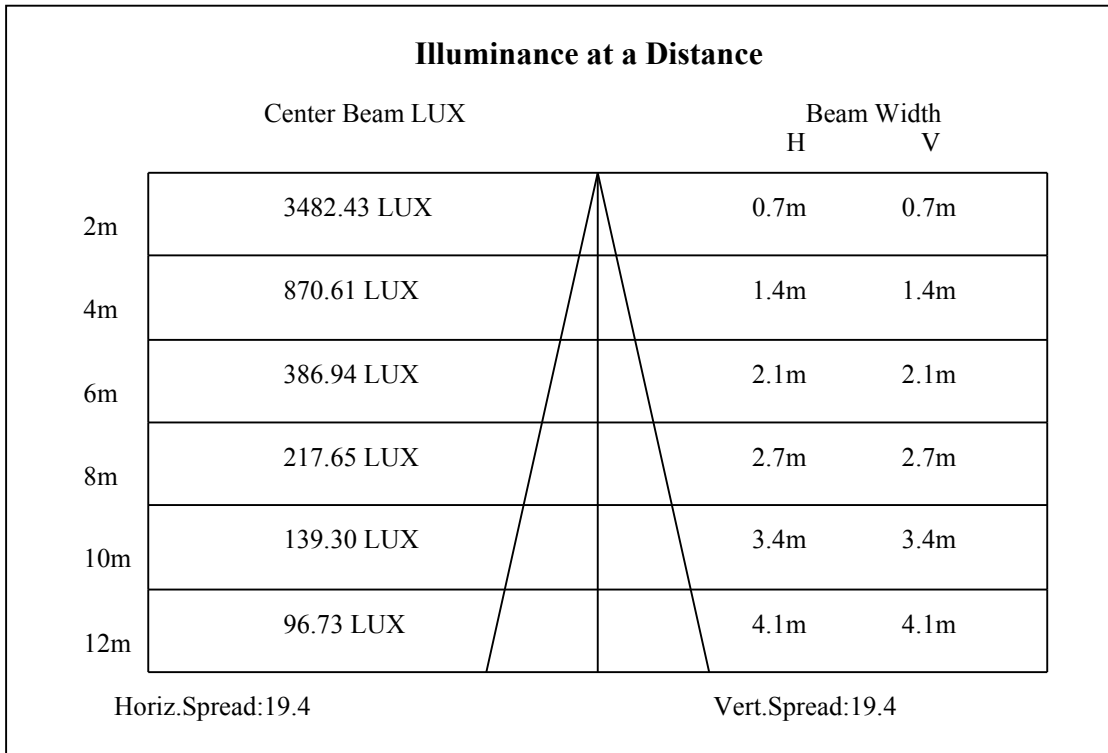
C0(Max): —————

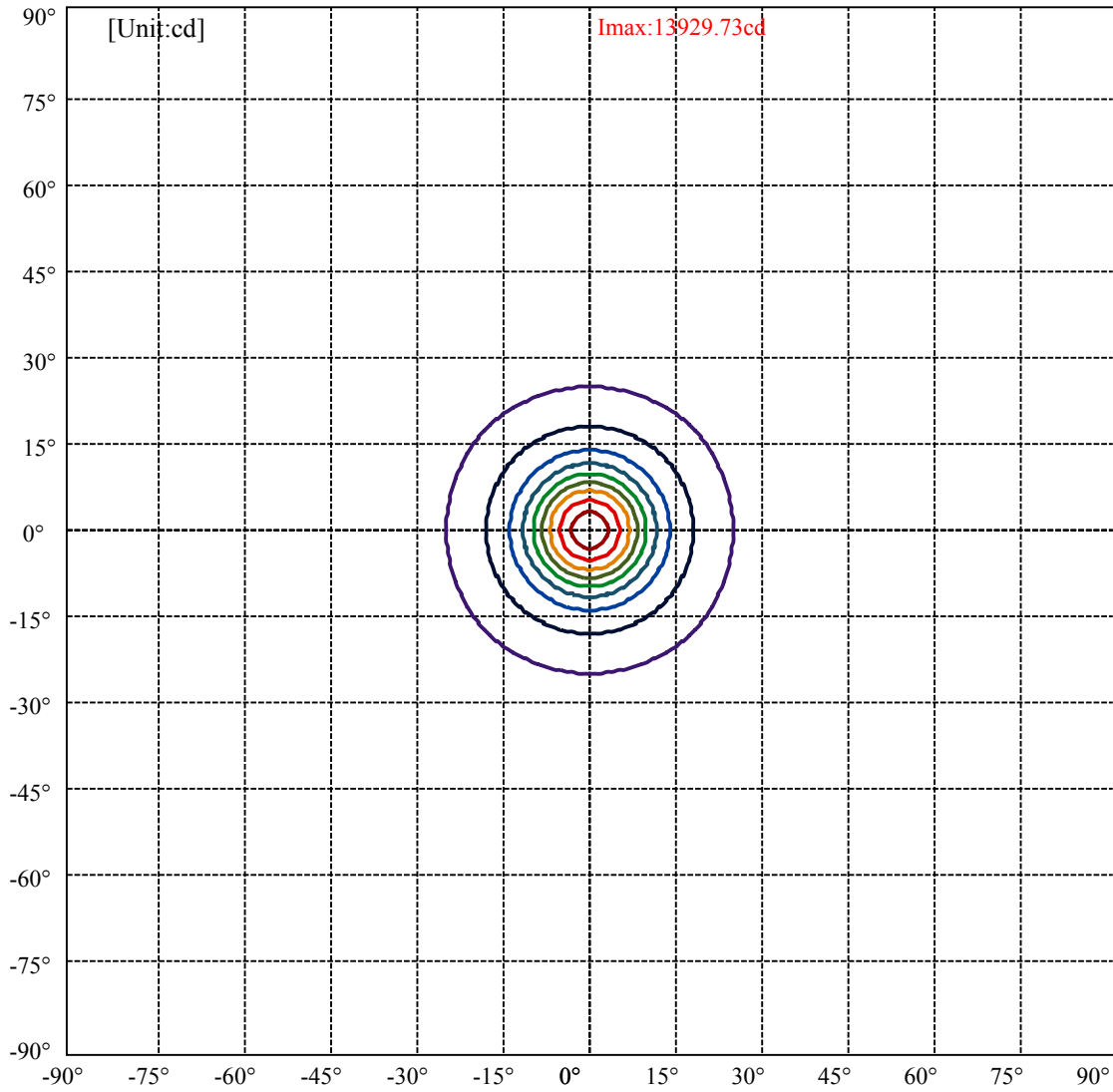
C0/C180: —————

C90/C270: —————

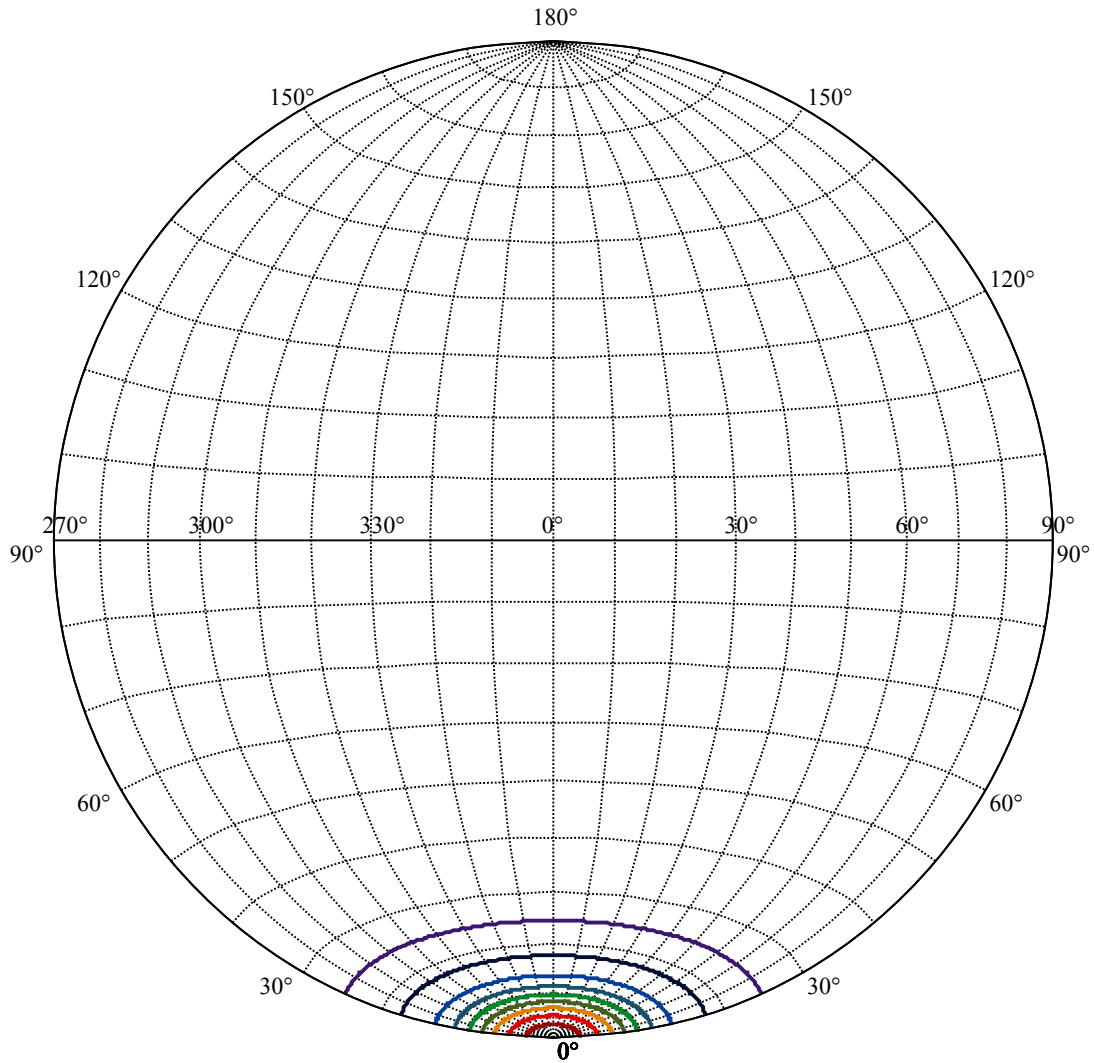
Field angle(10%Imax):C0/180Left:24.6 Right:24.6
:C90/270Left:24.6 Right:24.6

Beam Angle(50%Imax):C0/180Left:9.7 Right:9.7
:C90/270Left:9.7 Right:9.7





(10%Imax) 1392.97	—
(20%Imax) 2785.95	—
(30%Imax) 4178.92	—
(40%Imax) 5571.89	—
(50%Imax) 6964.87	—
(60%Imax) 8357.84	—
(70%Imax) 9750.81	—
(80%Imax) 11143.8	—
(90%Imax) 12536.8	—



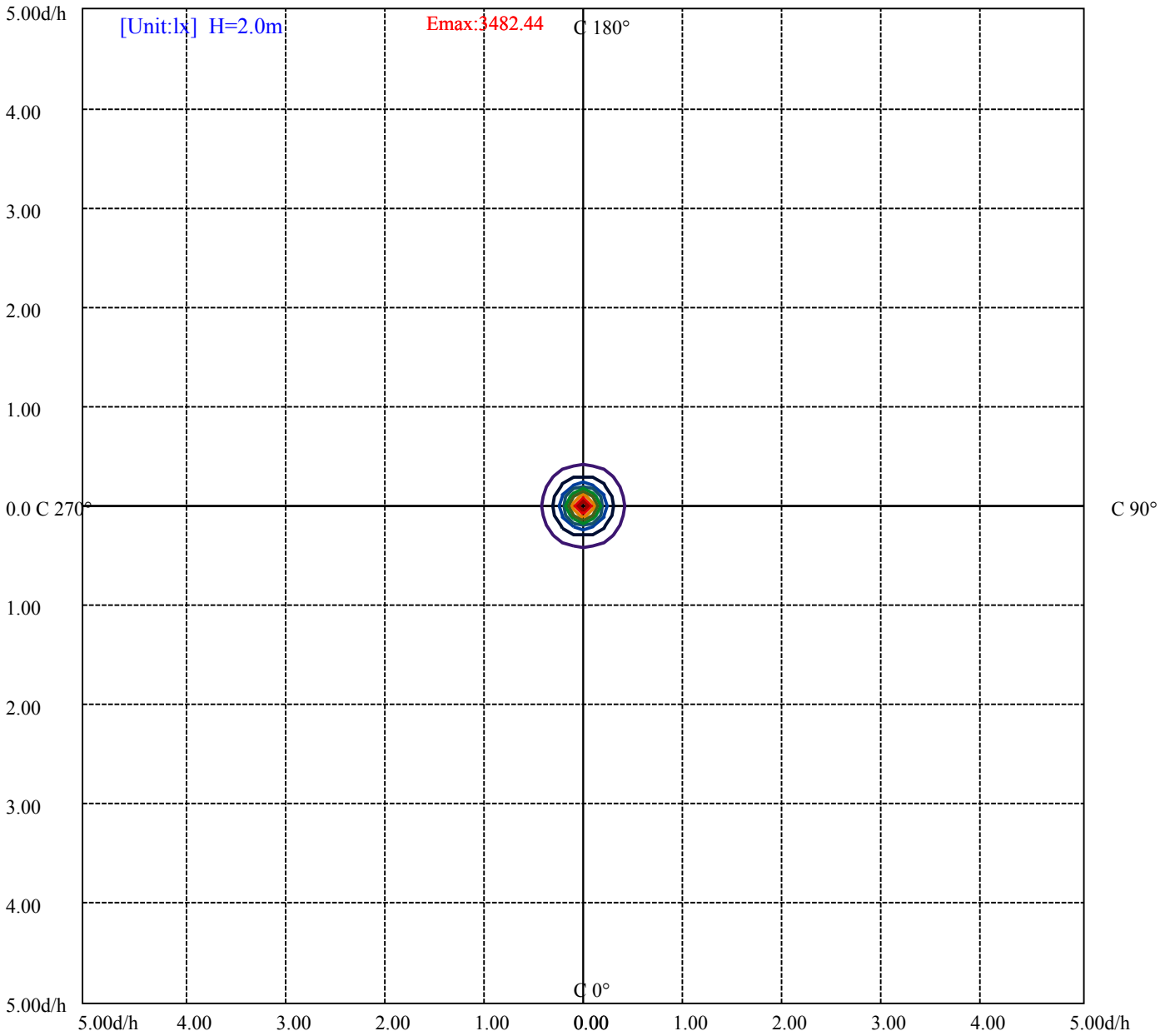
House

[Unit:cd]

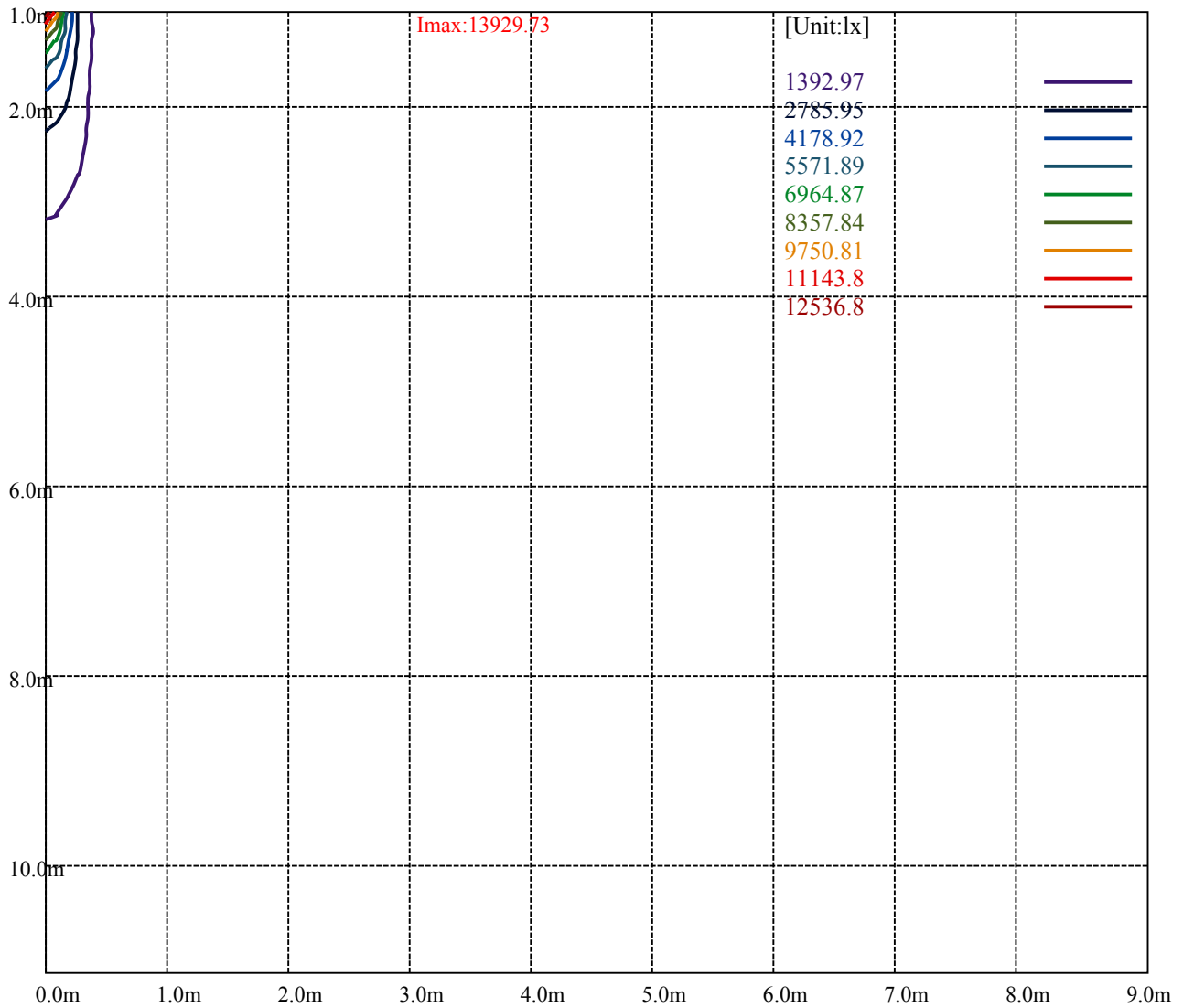
Road

I_{max}:13929.73

(10%I _{max})	1392.97	—
(20%I _{max})	2785.95	—
(30%I _{max})	4178.92	—
(40%I _{max})	5571.89	—
(50%I _{max})	6964.87	—
(60%I _{max})	8357.84	—
(70%I _{max})	9750.81	—
(80%I _{max})	11143.8	—
(90%I _{max})	12536.8	—



- (10%Emax) 348.2425
- (20%Emax) 696.485
- (30%Emax) 1044.73
- (40%Emax) 1392.973
- (50%Emax) 1741.215
- (60%Emax) 2089.458
- (70%Emax) 2437.7
- (80%Emax) 2785.95
- (90%Emax) 3134.175



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

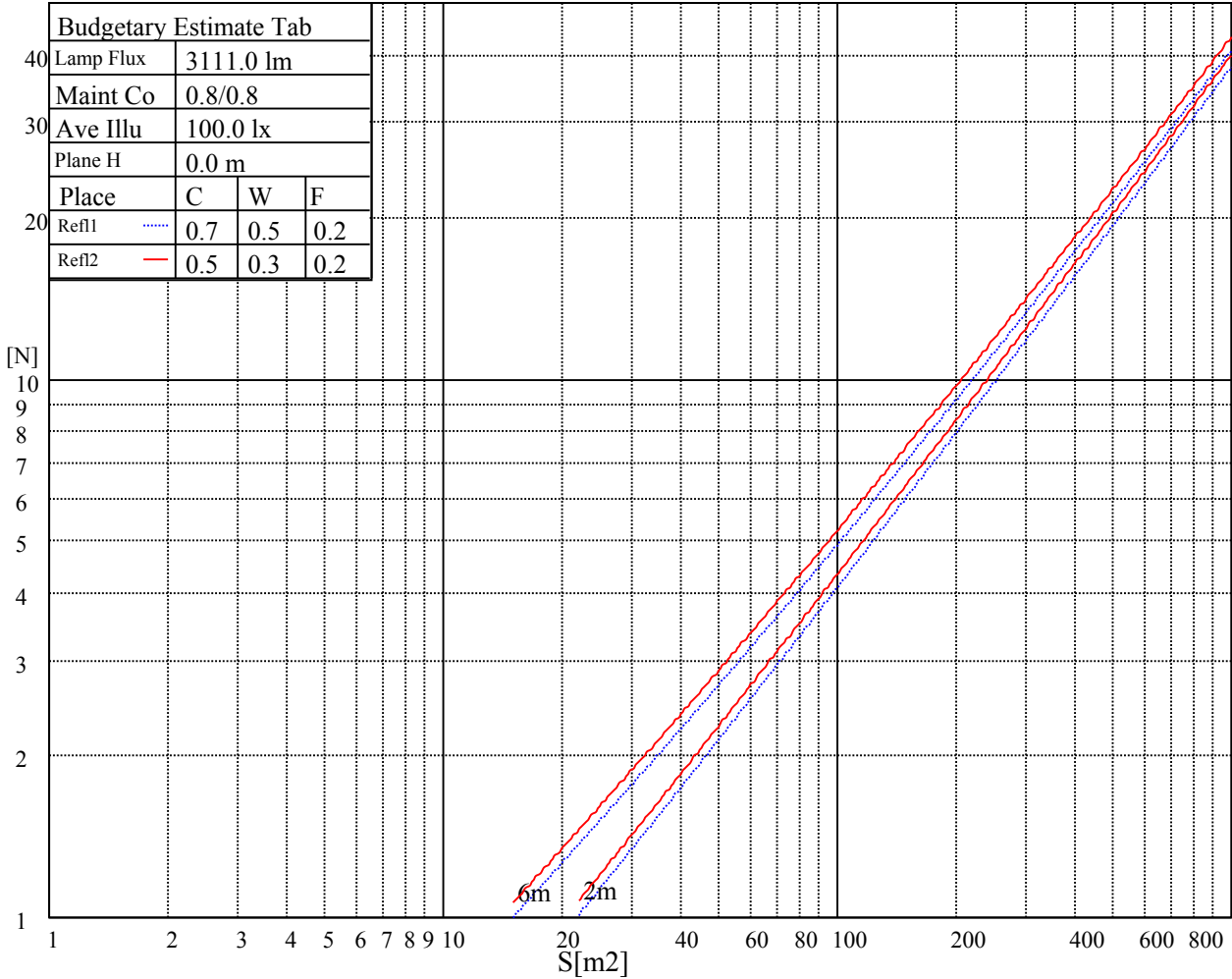
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

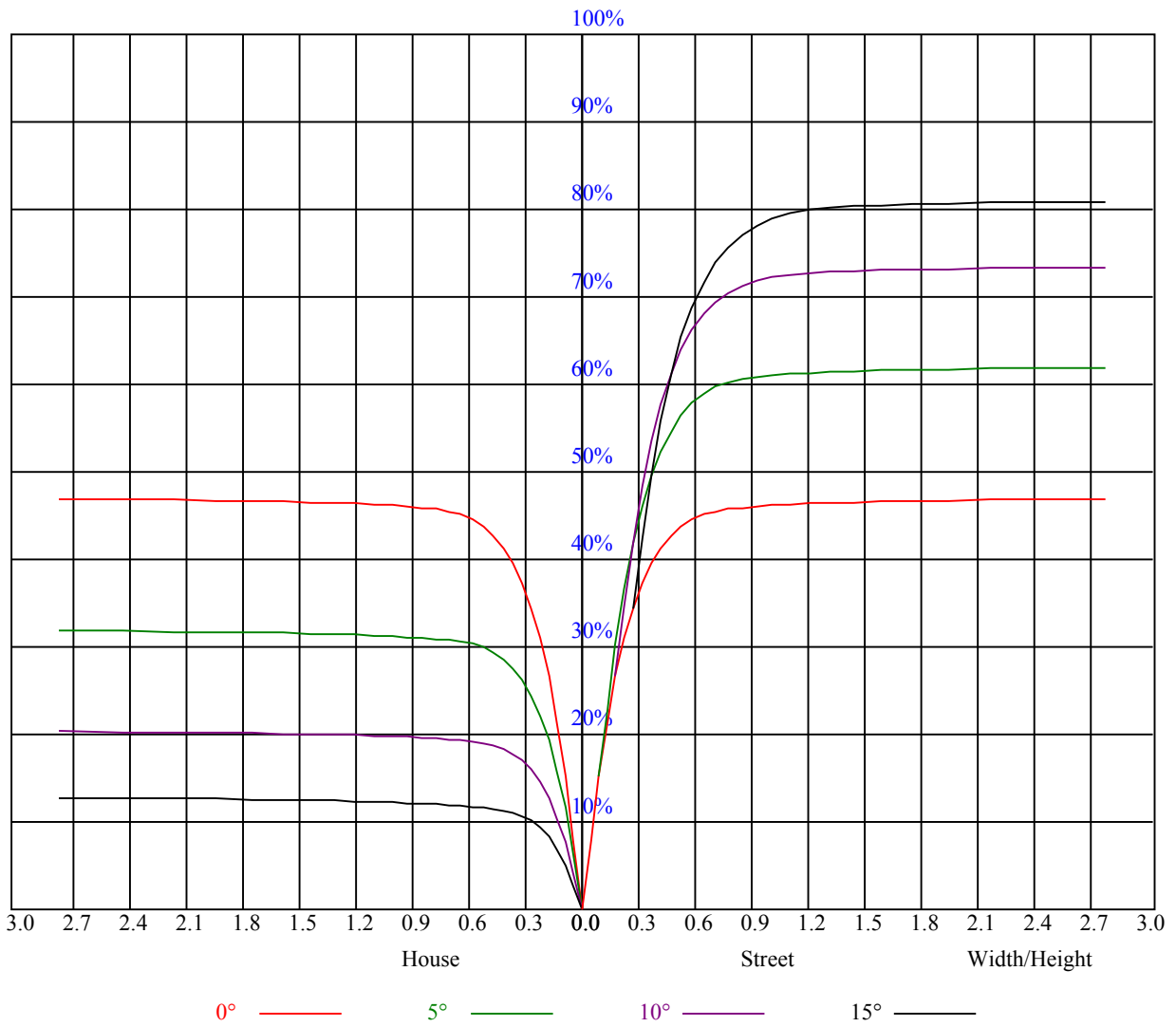


Illumination assessment according UGR										
Rf of Ceiling	70	70	50	50	30	70	70	50	50	30
Rf of Wall	50	30	50	30	30	50	30	50	30	30
Rf of Floor	20	20	20	20	20	20	20	20	20	20
Room dimensions	Viewed crosswise					Viewed endwise				
X	Y									
2H	2H	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字	非数字
	3H	非数字	非数字	非数字	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	1.13	1.13	1.13	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	0.96	0.96	0.96	0.95
1	1.06	1.04	1.02	1.04	1.02	1.00	1.00	0.98	0.97	0.96	0.95	0.94	0.93	0.92	0.92	0.90
2	1.00	0.97	0.94	0.98	0.96	0.93	0.95	0.93	0.91	0.93	0.91	0.89	0.90	0.89	0.87	0.86
3	0.95	0.91	0.88	0.94	0.90	0.87	0.91	0.88	0.86	0.89	0.87	0.85	0.87	0.85	0.83	0.82
4	0.91	0.86	0.83	0.90	0.86	0.83	0.88	0.84	0.82	0.86	0.83	0.81	0.84	0.82	0.80	0.79
5	0.87	0.82	0.79	0.86	0.82	0.79	0.84	0.81	0.78	0.83	0.80	0.78	0.82	0.79	0.77	0.76
6	0.83	0.79	0.76	0.83	0.78	0.75	0.81	0.78	0.75	0.80	0.77	0.74	0.79	0.76	0.74	0.73
7	0.80	0.76	0.73	0.80	0.75	0.72	0.79	0.75	0.72	0.77	0.74	0.72	0.77	0.74	0.71	0.70
8	0.77	0.73	0.70	0.77	0.73	0.70	0.76	0.72	0.69	0.75	0.72	0.69	0.74	0.71	0.69	0.68
9	0.75	0.70	0.67	0.74	0.70	0.67	0.73	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.67	0.66
10	0.72	0.68	0.65	0.72	0.68	0.65	0.71	0.68	0.65	0.71	0.67	0.65	0.70	0.67	0.65	0.64



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	13777.51	13373.43	12825.43	10847.64	10847.64	10185.62	9271.17	8103.21	7212.57
45.0	14026.60	13832.86	13450.92	12930.60	12061.55	11242.32	10384.34	9255.12	8330.72
90.0	13849.47	13473.07	12814.36	10879.75	10879.75	10434.15	9317.12	8392.16	7479.93
135.0	14065.35	13926.97	13495.21	12963.81	12133.51	11325.35	10478.44	9576.17	8424.82
180.0	13777.51	14032.14	13954.64	13677.87	13268.26	12554.20	11845.67	11031.97	9902.76
225.0	14026.60	13938.04	13633.59	13196.30	12615.09	10853.73	10853.73	9940.95	9010.46
270.0	13849.47	14043.21	13998.93	13639.13	13174.16	12382.60	11613.19	10788.42	9620.46
315.0	14065.35	13965.71	13533.96	13030.24	10921.82	10921.82	10469.03	9532.44	8575.93
360.0	13777.51	13373.43	12825.43	10847.64	10847.64	10185.62	9271.17	8103.21	7212.57
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	6176.91	5446.79	4830.16	4287.14	3750.76	3400.37	3099.25	2838.53	2548.48
45.0	7445.06	6382.27	5646.07	4854.51	4317.58	3874.75	3514.95	3127.48	2861.78
90.0	6422.12	5684.26	5034.96	4344.70	3901.32	3525.47	3139.10	2866.21	2625.97
135.0	7522.55	6686.71	5933.91	5114.67	4544.53	4068.49	3669.94	3254.79	2978.02
180.0	8972.82	8037.34	6930.27	6133.18	5253.06	4666.31	4168.13	3752.97	3310.15
225.0	7824.78	6943.00	5980.96	5300.66	4709.48	4104.47	3702.60	3363.84	3065.48
270.0	8696.05	7777.18	6908.13	5922.84	5253.06	4677.38	4190.27	3692.09	3343.36
315.0	7426.24	6575.45	5813.24	5147.88	4441.02	3983.25	3599.64	3199.99	2925.99
360.0	6176.91	5446.79	4830.16	4287.14	3750.76	3400.37	3099.25	2838.53	2548.48
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2340.35	2137.76	1956.20	1753.05	1604.15	1463.00	1102.31	1102.31	1039.60
45.0	2800.89	2800.89	2148.83	1967.27	1798.99	1645.66	1466.32	1326.83	1163.53
90.0	2356.96	2158.79	1971.14	1804.53	1611.34	1470.19	1104.36	1104.36	1042.20
135.0	2850.71	2850.71	2233.52	1994.94	1823.35	1665.59	1520.01	1341.77	1205.05
180.0	3027.84	2850.71	2850.71	2270.60	2080.74	1898.63	1734.23	1555.99	1417.05
225.0	2745.54	2506.41	2292.19	2093.47	1876.49	1718.73	1574.81	1402.11	1082.94
270.0	3055.52	2811.96	2811.96	2287.21	2102.33	1883.13	1723.16	1552.67	1413.18
315.0	2678.01	2397.36	2199.75	2009.34	1805.63	1656.18	1518.35	1385.50	1096.89
360.0	2340.35	2137.76	1956.20	1753.05	1604.15	1463.00	1102.31	1102.31	1039.60
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	884.72	769.53	640.39	552.54	471.34	396.94	331.84	262.87	216.82
45.0	1034.01	912.23	769.42	666.46	571.25	489.88	396.89	332.68	291.16
90.0	919.81	804.40	671.22	577.45	493.15	399.04	333.23	276.93	219.37
135.0	1078.29	954.85	808.72	704.10	610.00	524.75	429.54	361.46	302.78
180.0	1253.21	1128.66	1005.77	857.43	742.85	643.21	556.86	458.33	388.58
225.0	1082.94	992.60	873.87	761.39	635.57	549.83	468.29	397.22	320.11
270.0	1276.45	1155.23	1001.90	879.02	763.33	657.05	543.57	461.65	389.69
315.0	1096.89	975.77	857.26	716.50	616.09	525.42	425.12	355.81	296.36
360.0	884.72	769.53	640.39	552.54	471.34	396.94	331.84	262.87	216.82
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	179.57	142.59	119.79	102.29	88.40	74.56	66.04	57.90	53.08
45.0	291.16	177.35	147.35	123.33	105.12	87.29	76.11	66.98	58.56
90.0	182.11	152.39	127.98	104.29	88.95	76.72	67.25	58.56	53.36
135.0	289.50	229.39	155.38	130.14	110.43	94.49	78.44	69.08	61.77
180.0	327.14	285.62	285.62	178.79	149.62	125.43	100.96	85.41	73.45
225.0	268.96	225.23	188.31	150.78	125.87	105.84	86.30	74.40	63.55
270.0	313.30	287.29	287.29	170.60	142.09	118.07	94.60	80.10	69.03
315.0	233.87	194.51	162.08	129.97	110.32	95.04	82.48	70.02	62.27
360.0	179.57	142.59	119.79	102.29	88.40	74.56	66.04	57.90	53.08

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	49.10	44.95	42.12	39.74	37.64	35.37	33.88	32.66	31.55
45.0	53.47	48.49	45.06	42.18	39.52	36.87	35.04	33.49	32.27
90.0	48.16	44.73	41.74	38.69	36.64	34.82	33.38	31.88	30.89
135.0	56.13	50.76	47.22	44.17	40.85	38.64	36.75	34.76	33.38
180.0	63.16	57.18	51.64	48.05	45.06	42.40	39.63	37.64	35.92
225.0	57.24	52.53	47.88	44.78	42.12	39.85	37.42	35.70	34.26
270.0	59.51	53.97	49.71	46.05	42.40	39.85	37.75	35.98	34.04
315.0	56.29	51.81	47.16	44.06	40.74	38.47	36.59	34.49	33.10
360.0	49.10	44.95	42.12	39.74	37.64	35.37	33.88	32.66	31.55
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	30.56	29.89	29.39	28.95	28.78	28.73	28.40	28.29	28.01
45.0	31.00	30.22	29.67	29.06	28.84	28.67	28.56	28.34	28.12
90.0	30.11	29.50	28.95	28.67	28.56	28.51	28.12	27.84	27.40
135.0	32.22	31.00	30.22	29.61	29.12	28.89	28.78	28.56	28.23
180.0	34.43	32.82	31.72	30.83	29.89	29.39	29.12	28.95	28.73
225.0	32.99	31.61	30.78	30.11	29.45	29.23	29.06	28.78	28.51
270.0	32.82	31.72	30.67	30.06	29.39	29.01	28.84	28.84	28.51
315.0	31.99	31.00	30.06	29.50	29.12	28.73	28.67	28.51	28.23
360.0	30.56	29.89	29.39	28.95	28.78	28.73	28.40	28.29	28.01
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	27.12	26.02	25.19	24.13	22.69	21.75	20.98	20.20	19.37
45.0	27.68	26.85	25.85	24.85	23.80	22.53	21.64	20.65	19.93
90.0	26.63	25.63	24.47	23.53	22.36	21.26	20.48	19.76	19.15
135.0	28.01	27.34	26.24	25.19	24.13	22.58	21.70	20.92	19.93
180.0	28.34	28.06	27.51	26.51	25.46	24.41	23.25	22.20	21.26
225.0	28.29	27.57	26.51	25.52	24.63	23.14	22.14	21.31	20.54
270.0	28.29	28.06	27.51	26.13	25.19	24.24	23.03	21.81	21.03
315.0	28.01	27.46	26.13	25.24	24.24	22.81	21.86	21.09	20.31
360.0	27.12	26.02	25.19	24.13	22.69	21.75	20.98	20.20	19.37
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	18.88	18.21	17.82	17.38	16.83	16.44	16.00	15.50	15.06
45.0	19.32	18.82	18.27	17.82	17.27	16.88	16.44	15.89	15.55
90.0	18.54	18.10	17.66	17.27	16.72	16.33	15.83	15.44	15.06
135.0	19.32	18.82	18.32	17.82	17.38	16.88	16.55	16.05	15.61
180.0	20.43	19.71	19.04	18.54	18.05	17.55	17.05	16.66	16.11
225.0	19.60	19.04	18.43	17.93	17.49	16.94	16.50	16.11	15.72
270.0	20.09	19.43	18.88	18.27	17.77	17.33	16.77	16.38	16.00
315.0	19.43	18.88	18.38	17.93	17.38	16.88	16.50	16.00	15.55
360.0	18.88	18.21	17.82	17.38	16.83	16.44	16.00	15.50	15.06
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	14.72	14.28	13.89	13.62	13.28	13.06	12.84	12.57	12.62
45.0	15.17	14.67	14.28	13.95	13.56	13.34	13.06	12.79	12.51
90.0	14.61	14.34	13.95	13.67	13.28	13.06	12.84	12.51	12.51
135.0	15.22	14.72	14.34	13.95	13.56	13.28	12.95	12.73	12.45
180.0	15.72	15.22	14.83	14.45	14.00	13.67	13.40	13.06	12.79
225.0	15.22	14.78	14.45	14.00	13.67	13.34	13.12	12.84	12.73
270.0	15.55	15.11	14.67	14.28	13.84	13.51	13.23	13.01	12.79
315.0	15.17	14.67	14.34	13.95	13.51	13.23	13.06	12.79	12.68
360.0	14.72	14.28	13.89	13.62	13.28	13.06	12.84	12.57	12.62

Intensity data(cd)

C/ γ (°)	90.0
0.0	12.57
45.0	12.62
90.0	12.51
135.0	12.45
180.0	12.51
225.0	12.45
270.0	12.45
315.0	12.45
360.0	12.57