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## NATA

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LumCAT: 3-1648-E	
Luminaire: 92.70.134.00	
Report No: NATA0100	Voltage(V): 35.8500
Test No: GC2019012205	Current(A): 0.7000
LampCAT: CREE CXA2520	Power (W): 25.0950
Lamp flux(lm): 2276.0	PF: 0.0000
Number of Lamps: 1	Ballast type: DC
Length(mm): 78	Width(mm): 78
Phm Type: C	Height(mm): 0

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## Photometric Results

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Lumens(lm): 1950.10  
Efficiency(%): 85.68%  
Lumens(lm)/Power(W): 77.76  
Central intensity(cd): 5475.937  
Maximum intensity(cd): 5475.937  
Angle of maximum intensity: C=0.0  $\gamma$ =0.0  
Beam Angle(50%Imax): [C0/180]Total=33.8  
                                  [C90/270]Total=33.8  
Field angle(10%Imax): [C0/180]Total=56.8  
                                  [C90/270]Total=56.8  
Maximum s/h(1/2): C0\_180=0.56 C90\_270=0.56  
Maximum s/h(1/4): C0\_180=0.56 C90\_270=0.56  
Up flux rate of lamp(%): 0.00%  
Down flux rate of lamp(%): 85.74%  
Up flux rate of LUM(%): - -  
Down flux rate of LUM(%): 100.00%  
CIE Type : Direct lighting  
Output flux ratio in  $\pi$  solid angle : 98.470%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	5475.938	1.310	1.31	.058%	.067%
1.0	5469.820	10.468	11.778	.460%	.604%
2.0	5449.500	20.856	32.634	.916%	1.673%
3.0	5417.438	31.092	63.726	1.366%	3.268%
4.0	5370.328	41.081	104.807	1.805%	5.374%
5.0	5293.547	50.593	155.4	2.223%	7.969%
6.0	5182.523	59.406	214.806	2.610%	11.015%
7.0	5052.305	67.521	282.326	2.967%	14.478%
8.0	4889.742	74.626	356.953	3.279%	18.304%
9.0	4693.289	80.512	437.465	3.537%	22.433%
10.0	4477.148	85.256	522.721	3.746%	26.805%
11.0	4247.297	88.872	611.592	3.905%	31.362%
12.0	4007.039	91.360	702.952	4.014%	36.047%
13.0	3748.430	92.468	795.419	4.063%	40.789%
14.0	3481.383	92.359	887.778	4.058%	45.525%
15.0	3228.047	91.619	979.398	4.025%	50.223%
16.0	2981.320	90.115	1069.513	3.959%	54.844%
17.0	2704.992	86.727	1156.24	3.810%	59.291%
18.0	2459.531	83.346	1239.586	3.662%	63.565%
19.0	2234.672	79.782	1319.369	3.505%	67.657%
20.0	1991.320	74.687	1394.056	3.281%	71.487%
21.0	1786.219	70.197	1464.252	3.084%	75.086%
22.0	1617.820	66.460	1530.712	2.920%	78.494%
23.0	1446.609	61.984	1592.696	2.723%	81.673%
24.0	1254.277	55.945	1648.64	2.458%	84.542%
25.0	1066.205	49.413	1698.053	2.171%	87.075%
26.0	923.442	44.392	1742.445	1.950%	89.352%
27.0	758.320	37.753	1780.198	1.659%	91.288%
28.0	603.738	31.082	1811.28	1.366%	92.882%
29.0	460.160	24.464	1835.744	1.075%	94.136%
30.0	347.189	19.037	1854.781	.836%	95.112%
31.0	238.613	13.477	1868.258	.592%	95.803%
32.0	158.323	9.200	1877.458	.404%	96.275%
33.0	95.752	5.719	1883.177	.251%	96.568%
34.0	68.913	4.226	1887.403	.186%	96.785%
35.0	52.305	3.290	1890.693	.145%	96.954%
36.0	41.337	2.664	1893.357	.117%	97.090%
37.0	34.038	2.246	1895.604	.099%	97.206%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	28.238	1.906	1897.51	.084%	97.303%
39.0	23.723	1.637	1899.147	.072%	97.387%
40.0	20.841	1.469	1900.616	.065%	97.463%
41.0	18.661	1.343	1901.959	.059%	97.532%
42.0	16.882	1.239	1903.198	.054%	97.595%
43.0	15.638	1.170	1904.367	.051%	97.655%
44.0	14.759	1.124	1905.491	.049%	97.713%
45.0	14.020	1.087	1906.578	.048%	97.768%
46.0	13.423	1.059	1907.637	.047%	97.823%
47.0	12.980	1.041	1908.678	.046%	97.876%
48.0	12.572	1.025	1909.703	.045%	97.929%
49.0	12.241	1.013	1910.716	.045%	97.981%
50.0	11.925	1.002	1911.718	.044%	98.032%
51.0	11.658	0.994	1912.711	.044%	98.083%
52.0	11.454	0.990	1913.701	.043%	98.134%
53.0	11.208	0.982	1914.683	.043%	98.184%
54.0	11.018	0.977	1915.66	.043%	98.234%
55.0	10.849	0.975	1916.635	.043%	98.284%
56.0	10.695	0.972	1917.607	.043%	98.334%
57.0	10.540	0.969	1918.576	.043%	98.384%
58.0	10.413	0.968	1919.545	.043%	98.433%
59.0	10.287	0.967	1920.512	.042%	98.483%
60.0	10.174	0.966	1921.478	.042%	98.532%
61.0	10.062	0.965	1922.443	.042%	98.582%
62.0	9.970	0.965	1923.408	.042%	98.631%
63.0	9.893	0.967	1924.375	.042%	98.681%
64.0	9.816	0.967	1925.342	.043%	98.731%
65.0	9.738	0.968	1926.31	.043%	98.780%
66.0	9.682	0.970	1927.28	.043%	98.830%
67.0	9.612	0.970	1928.25	.043%	98.880%
68.0	9.548	0.971	1929.221	.043%	98.930%
69.0	9.506	0.973	1930.194	.043%	98.979%
70.0	9.471	0.976	1931.17	.043%	99.030%
71.0	9.408	0.975	1932.146	.043%	99.080%
72.0	9.359	0.976	1933.122	.043%	99.130%
73.0	9.309	0.976	1934.098	.043%	99.180%
74.0	9.260	0.976	1935.074	.043%	99.230%
75.0	9.211	0.976	1936.05	.043%	99.280%

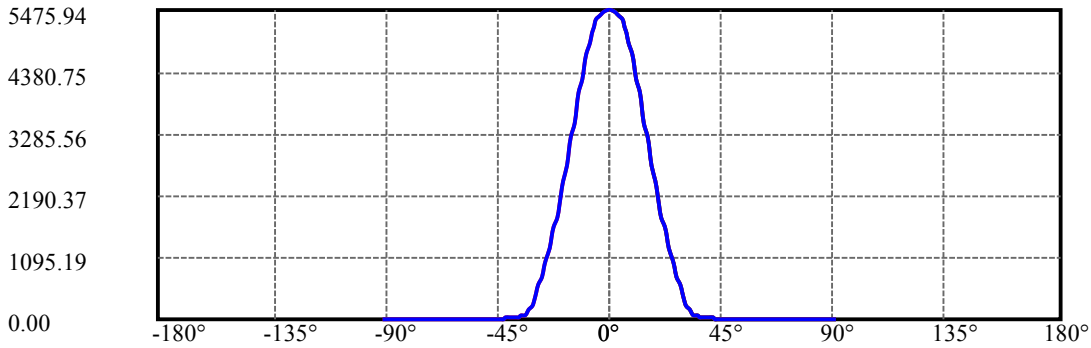
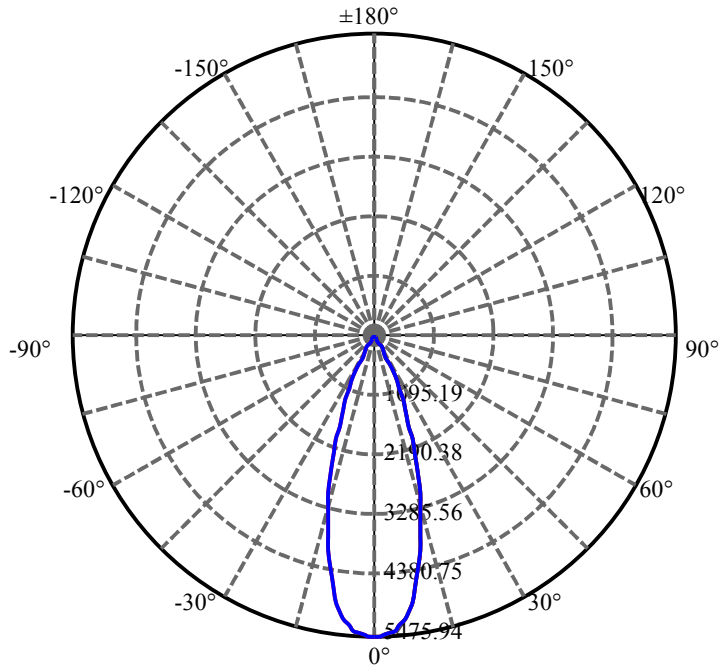
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	9.190	0.978	1937.028	.043%	99.330%
77.0	9.155	0.978	1938.006	.043%	99.380%
78.0	9.113	0.977	1938.983	.043%	99.430%
79.0	9.070	0.976	1939.96	.043%	99.480%
80.0	9.035	0.976	1940.936	.043%	99.530%
81.0	9.014	0.976	1941.912	.043%	99.580%
82.0	8.979	0.975	1942.887	.043%	99.630%
83.0	8.944	0.973	1943.86	.043%	99.680%
84.0	8.916	0.972	1944.833	.043%	99.730%
85.0	8.888	0.971	1945.804	.043%	99.780%
86.0	8.817	0.965	1946.768	.042%	99.829%
87.0	8.747	0.958	1947.726	.042%	99.878%
88.0	8.684	0.952	1948.678	.042%	99.927%
89.0	8.627	0.946	1949.624	.042%	99.976%
90.0	8.613	0.472	1950.096	.021%	100.000%

ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1854.78	81.49%	95.11%
0-40	1900.62	83.51%	97.46%
0-60	1921.48	84.42%	98.53%
0-90	1949.62	85.66%	99.98%
0-120	1949.62	85.66%	99.98%
0-180	1950.10	85.68%	100.00%
60-90	29.11	1.28%	1.49%
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%
0-22.47	1560.08	68.54%	80.00%

ZONAL LUMEN SUMMARY

0-10	522.72
10-20	871.33
20-30	460.73
30-40	45.84
40-50	11.10
50-60	9.76
60-70	9.69
70-80	9.77
80-90	8.69
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: —————

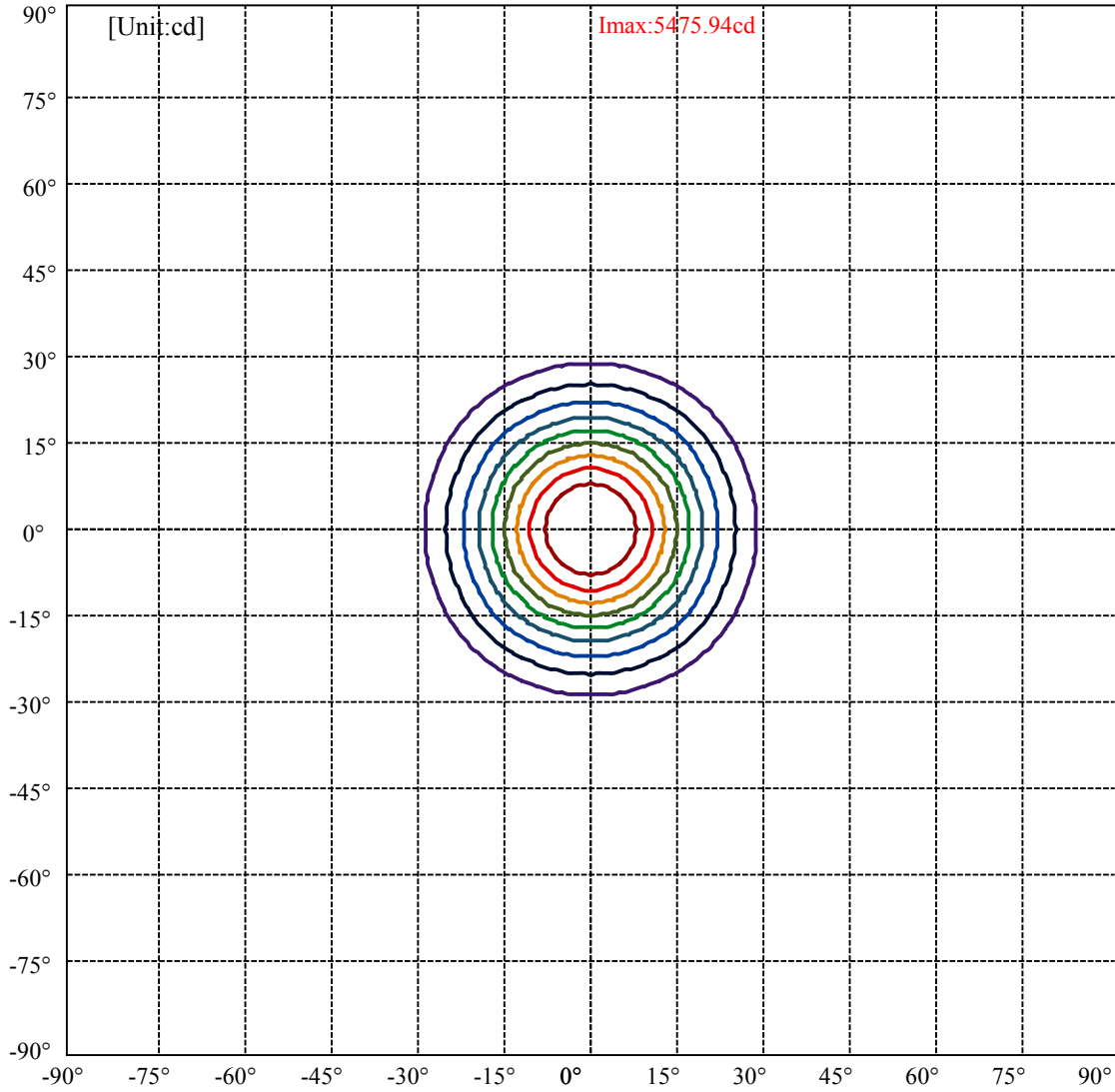
Field angle(10%Imax):C0/180Left:28.4 Right:28.4

:C90/270Left:28.4 Right:28.4

Beam Angle(50%Imax):C0/180Left:16.9 Right:16.9

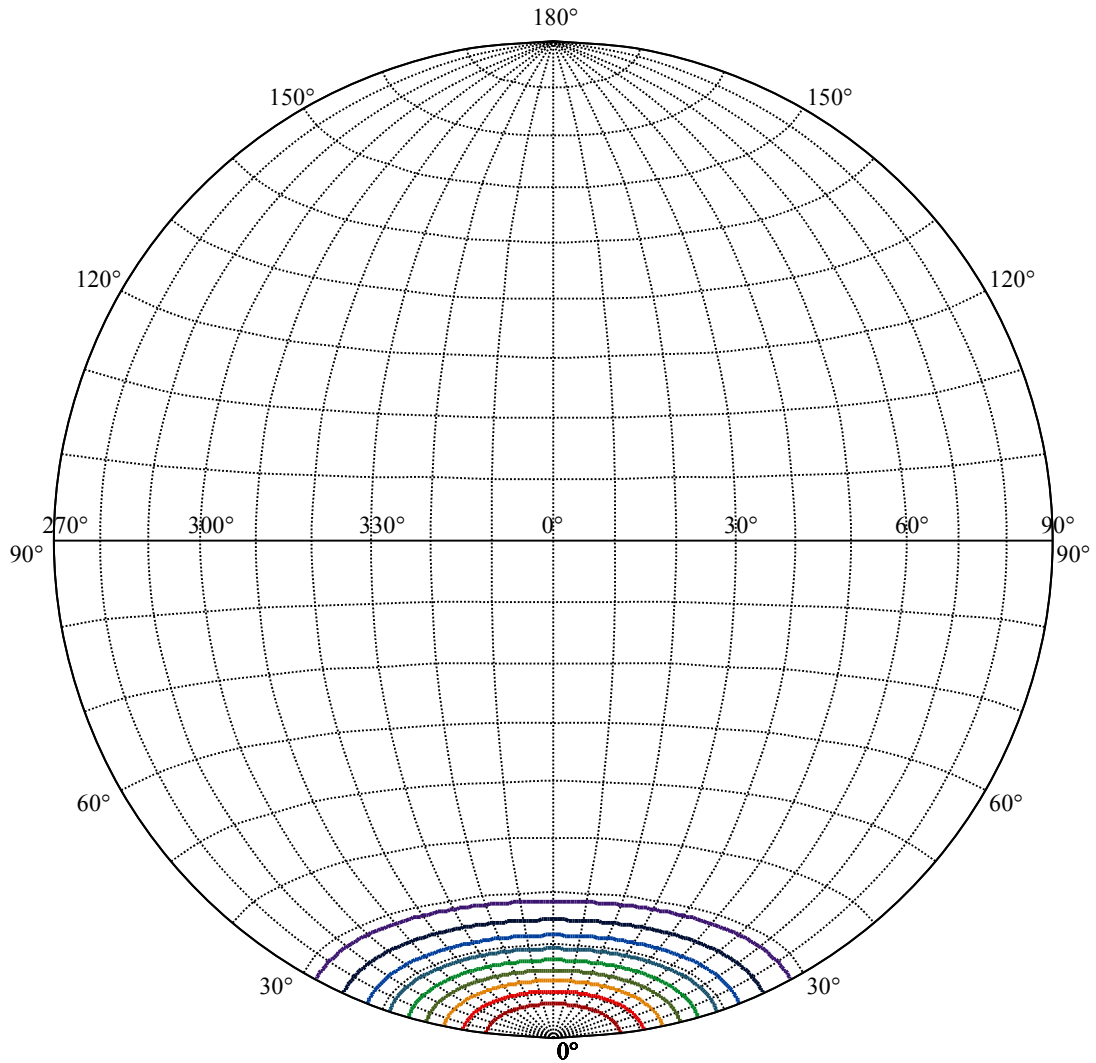
:C90/270Left:16.9 Right:16.9





(10%Imax) 547.594	—
(20%Imax) 1095.19	—
(30%Imax) 1642.78	—
(40%Imax) 2190.37	—
(50%Imax) 2737.97	—
(60%Imax) 3285.56	—
(70%Imax) 3833.16	—
(80%Imax) 4380.75	—
(90%Imax) 4928.34	—





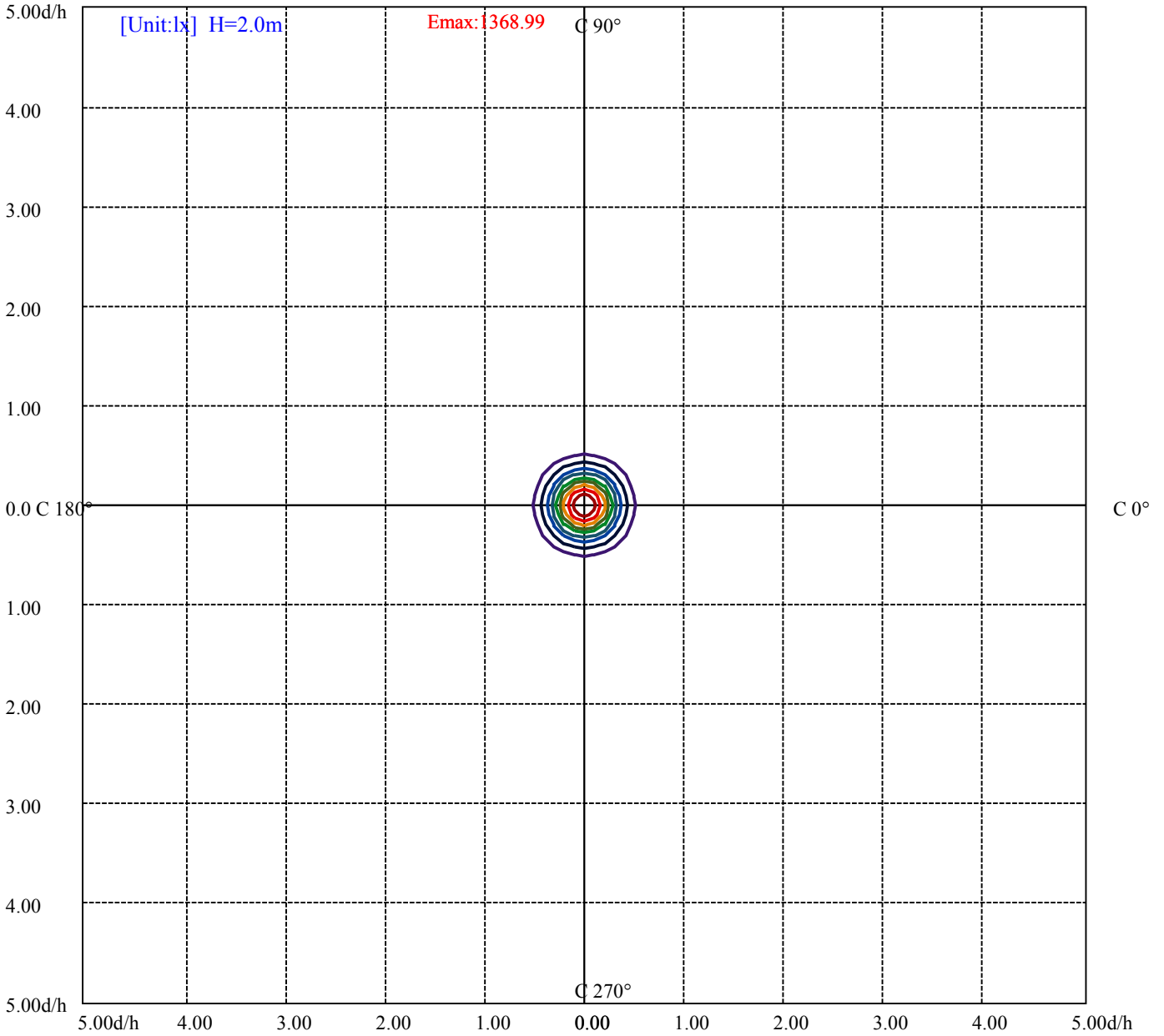
House

[Unit:cd]

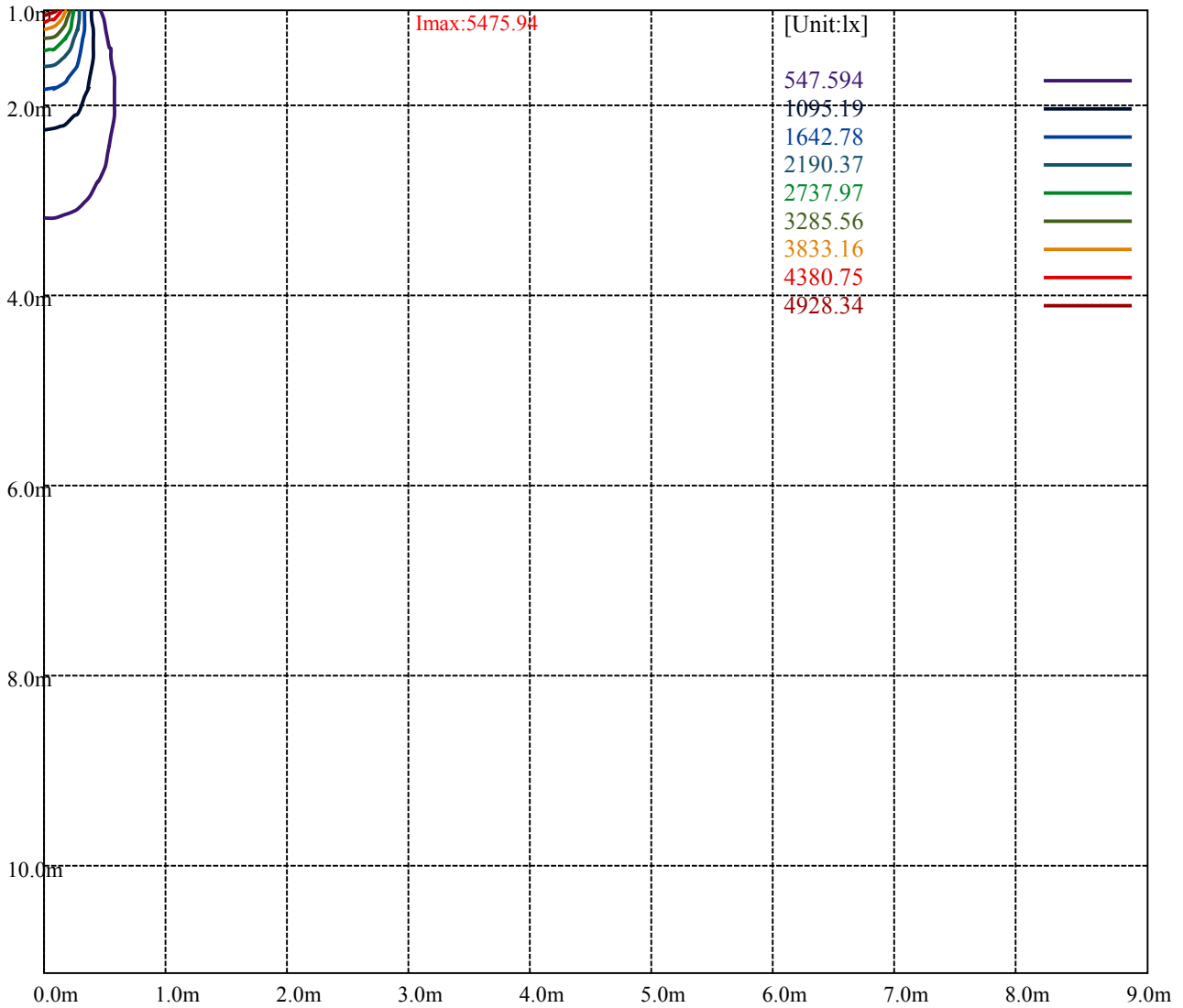
Road

I<sub>max</sub>:5475.94

(10%I <sub>max</sub> ) 547.594	—
(20%I <sub>max</sub> ) 1095.19	—
(30%I <sub>max</sub> ) 1642.78	—
(40%I <sub>max</sub> ) 2190.37	—
(50%I <sub>max</sub> ) 2737.97	—
(60%I <sub>max</sub> ) 3285.56	—
(70%I <sub>max</sub> ) 3833.16	—
(80%I <sub>max</sub> ) 4380.75	—
(90%I <sub>max</sub> ) 4928.34	—



- (10%Emax) 136.8985
- (20%Emax) 273.7975
- (30%Emax) 410.695
- (40%Emax) 547.5925
- (50%Emax) 684.4925
- (60%Emax) 821.39
- (70%Emax) 958.29
- (80%Emax) 1095.188
- (90%Emax) 1232.085



Luminance Table

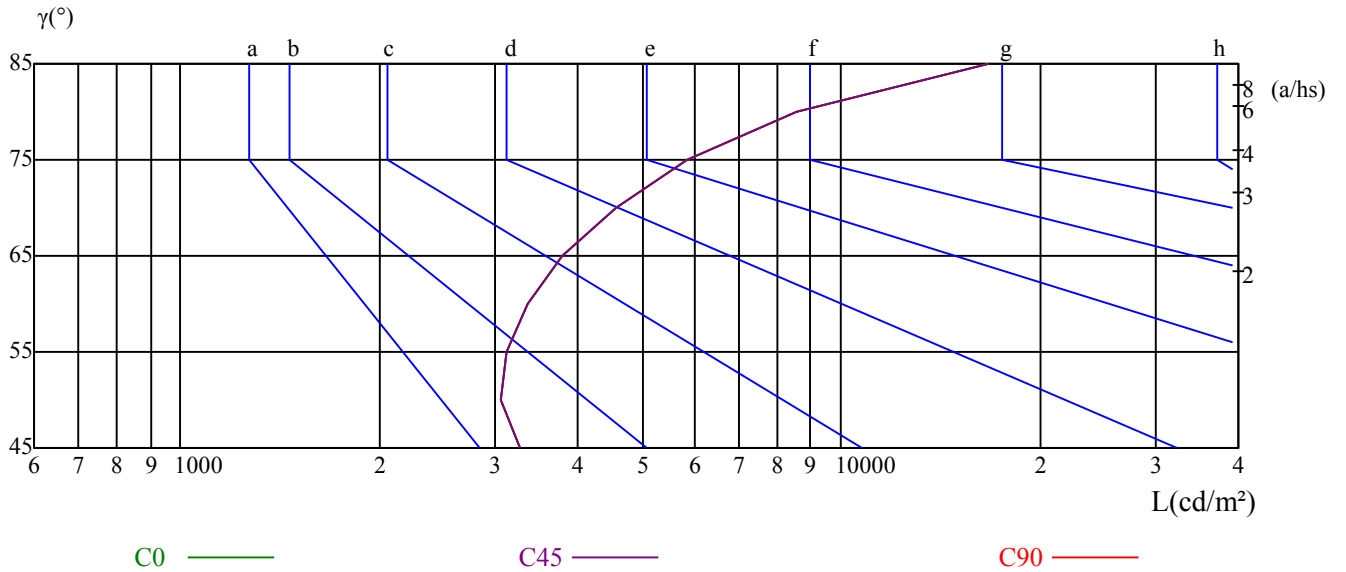
$\gamma$	45	50	55	60	65	70	75	80	85
C0	3259	3049	3109	3345	3787	4552	5849	8552	16761
C45	3259	3049	3109	3345	3787	4552	5849	8552	16761
C90	3259	3049	3109	3345	3787	4552	5849	8552	16761

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
3787	3787	3787	5849	5849	5849	16761	16761	16761

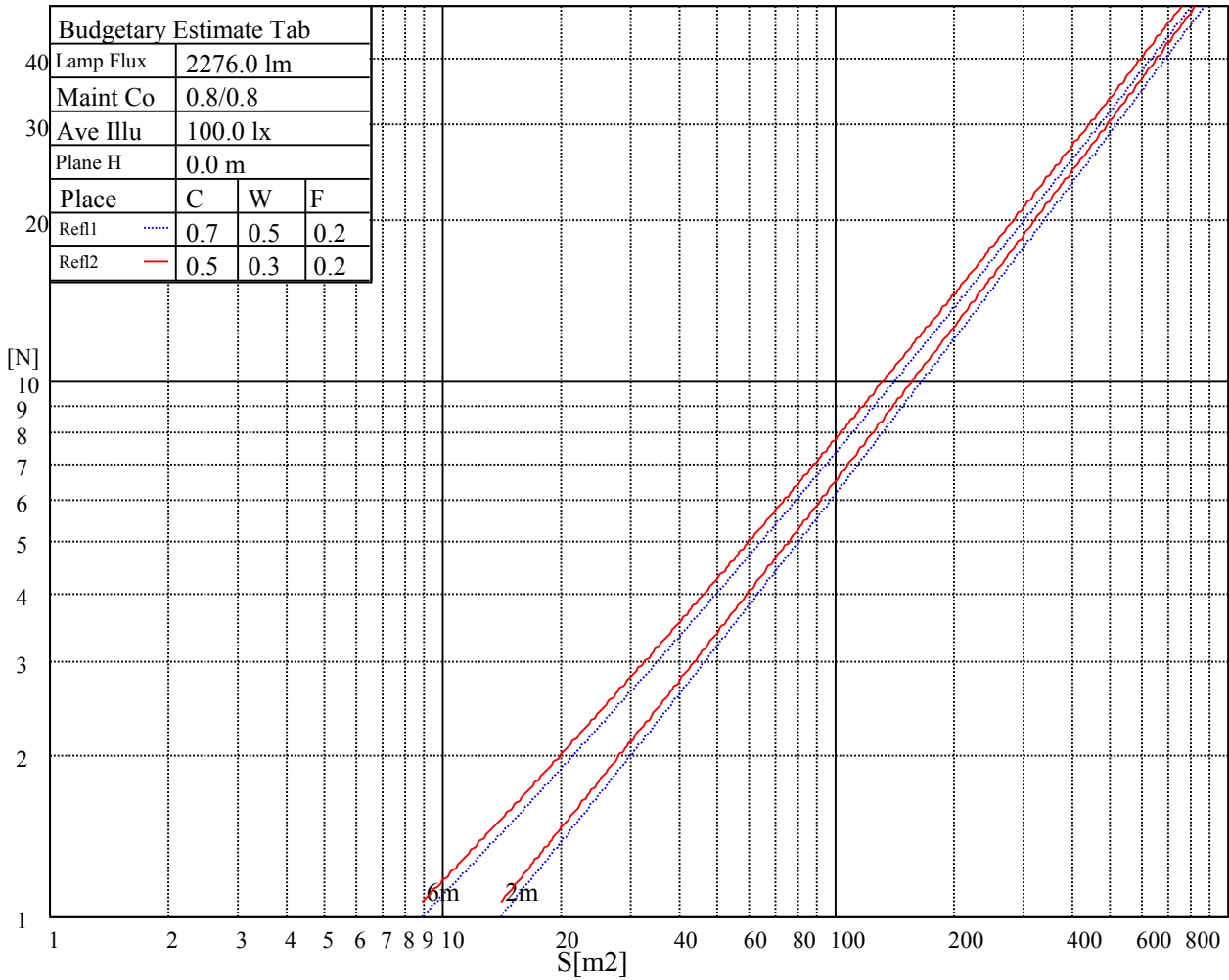
Glare Table

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

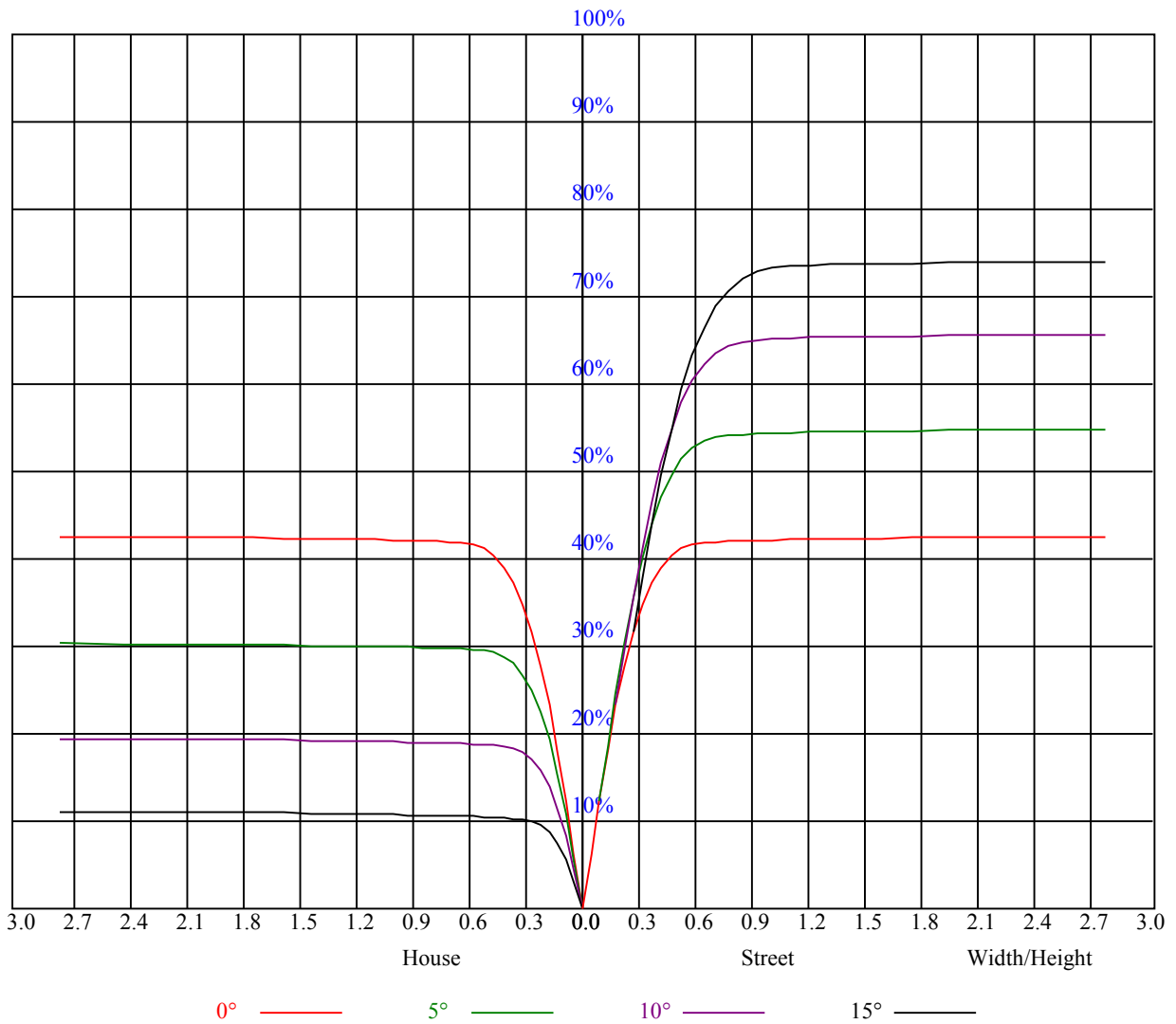
Luminance Limiting Curve



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	3.00	3.91	3.36	4.22	4.54	2.92	3.84	3.28	4.15	4.46
	3H	6.10	6.91	6.49	7.25	7.61	6.01	6.82	6.40	7.16	7.53
	4H	7.80	8.55	8.21	8.90	9.29	7.69	8.44	8.10	8.80	9.19
	6H	9.71	10.39	10.13	10.77	11.17	9.59	10.27	10.01	10.65	11.04
	8H	10.76	11.40	11.20	11.80	12.21	10.64	11.28	11.08	11.68	12.09
	12H	12.47	13.08	12.90	13.47	13.90	12.37	12.98	12.81	13.37	13.80
4H	2H	3.83	4.58	4.24	4.94	5.33	3.78	4.53	4.19	4.88	5.27
	3H	7.21	7.82	7.62	8.23	8.64	7.13	7.75	7.55	8.16	8.56
	4H	9.07	9.62	9.51	10.05	10.50	8.98	9.53	9.42	9.96	10.41
	6H	11.13	11.60	11.60	12.05	12.52	11.03	11.50	11.50	11.95	12.43
	8H	12.29	12.73	12.77	13.18	13.66	12.19	12.63	12.67	13.08	13.56
8H	12H	13.91	14.29	14.41	14.78	15.26	13.83	14.21	14.32	14.70	15.17
	4H	9.77	10.20	10.25	10.66	11.13	9.70	10.14	10.18	10.59	11.06
	6H	12.10	12.45	12.61	12.95	13.44	12.03	12.37	12.54	12.88	13.36
	8H	13.46	13.76	13.99	14.29	14.78	13.38	13.68	13.91	14.21	14.71
12H	12H	15.22	15.48	15.75	15.98	16.57	15.16	15.42	15.68	15.92	16.50
	4H	9.96	10.34	10.45	10.83	11.31	9.90	10.28	10.39	10.77	11.25
	6H	12.61	12.71	12.95	13.19	13.74	12.55	12.65	12.88	13.12	13.67
	8H	13.89	14.15	14.42	14.65	15.24	13.83	14.09	14.35	14.59	15.17
Variation with the observer position at spacings:											
S = 1.0H	2.1/-1.7					2.1/-1.7					
S = 1.5H	2.2/-1.5					2.2/-1.5					
S = 2.0H	2.3/-1.2					2.3/-1.2					
Standard tables:	BKBF					BKBF					
Uncorrected UGR	-1.6					-1.6					



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	1.02	1.02	1.02	1.00	1.00	1.00	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.86
1	0.96	0.94	0.93	0.94	0.93	0.91	0.91	0.89	0.88	0.88	0.87	0.86	0.85	0.84	0.83	0.82
2	0.91	0.88	0.86	0.90	0.87	0.85	0.87	0.85	0.83	0.84	0.83	0.81	0.82	0.81	0.80	0.78
3	0.87	0.83	0.81	0.86	0.82	0.80	0.83	0.81	0.79	0.81	0.79	0.77	0.80	0.78	0.76	0.75
4	0.83	0.79	0.76	0.82	0.79	0.76	0.80	0.77	0.75	0.79	0.76	0.74	0.77	0.75	0.73	0.72
5	0.79	0.76	0.73	0.79	0.75	0.72	0.77	0.74	0.72	0.76	0.73	0.71	0.75	0.72	0.71	0.70
6	0.76	0.72	0.70	0.76	0.72	0.69	0.75	0.71	0.69	0.73	0.71	0.69	0.72	0.70	0.68	0.67
7	0.74	0.70	0.67	0.73	0.69	0.67	0.72	0.69	0.66	0.71	0.68	0.66	0.70	0.68	0.66	0.65
8	0.71	0.67	0.64	0.70	0.67	0.64	0.70	0.66	0.64	0.69	0.66	0.64	0.68	0.65	0.64	0.63
9	0.68	0.65	0.62	0.68	0.64	0.62	0.67	0.64	0.62	0.67	0.64	0.62	0.66	0.63	0.61	0.61
10	0.66	0.62	0.60	0.66	0.62	0.60	0.65	0.62	0.60	0.65	0.62	0.60	0.64	0.61	0.59	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	5473.69	5461.31	5435.44	5400.00	5337.56	5221.69	5100.75	4952.25	4757.06
45.0	5484.38	5473.69	5457.94	5420.25	5367.38	5299.88	5151.38	5009.06	4865.06
90.0	5475.94	5467.50	5446.69	5410.69	5357.25	5265.00	5139.56	4995.00	4801.50
135.0	5469.75	5473.69	5458.50	5432.06	5402.25	5340.38	5250.38	5144.06	4996.69
180.0	5473.69	5473.13	5454.00	5425.31	5390.44	5330.81	5264.44	5153.63	5006.25
225.0	5484.38	5477.06	5460.19	5433.75	5388.75	5330.25	5231.81	5101.88	4963.50
270.0	5475.94	5474.81	5455.69	5432.63	5395.50	5338.13	5230.13	5117.06	4975.31
315.0	5469.75	5457.38	5427.56	5384.81	5323.50	5222.25	5091.75	4945.50	4752.56
360.0	5473.69	5461.31	5435.44	5400.00	5337.56	5221.69	5100.75	4952.25	4757.06
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	4540.50	4329.00	4077.00	3842.44	3572.44	3298.50	3052.69	2779.88	2522.81
45.0	4606.88	4397.06	4199.63	3903.75	3631.50	3415.50	3111.19	2874.94	2638.69
90.0	4607.44	4367.25	4114.69	3884.63	3614.06	3339.56	3097.13	2859.75	2562.19
135.0	4817.81	4627.69	4397.06	4171.50	3911.06	3641.63	3406.50	3162.94	2868.75
180.0	4845.94	4636.13	4406.06	4187.81	3961.13	3672.00	3434.63	3192.75	2917.69
225.0	4800.38	4564.13	4352.06	4125.38	3891.94	3594.38	3350.81	3106.13	2811.38
270.0	4766.06	4573.13	4366.69	4113.56	3850.88	3609.00	3331.13	3079.69	2809.13
315.0	4561.31	4322.81	4065.19	3827.25	3554.44	3280.50	3040.31	2794.50	2509.31
360.0	4540.50	4329.00	4077.00	3842.44	3572.44	3298.50	3052.69	2779.88	2522.81
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	2295.00	2082.94	1830.94	1663.31	1509.19	1310.06	1139.06	976.50	797.63
45.0	2351.81	2122.88	1892.25	1692.00	1528.31	1370.25	1159.31	1000.13	844.88
90.0	2327.63	2104.31	1869.19	1670.06	1512.56	1334.81	1108.91	983.48	810.06
135.0	2633.06	2396.81	2131.31	1927.69	1738.13	1581.75	1391.06	1227.38	1066.50
180.0	2651.63	2420.44	2169.56	1933.88	1753.88	1577.81	1427.63	1115.21	1052.72
225.0	2584.69	2359.69	2118.38	1900.13	1723.50	1543.50	1382.63	1109.48	1010.53
270.0	2549.81	2321.44	2076.19	1851.19	1679.06	1540.69	1320.19	1153.69	1014.19
315.0	2282.63	2068.88	1842.75	1651.50	1497.94	1314.00	1105.43	963.79	791.04
360.0	2295.00	2082.94	1830.94	1663.31	1509.19	1310.06	1139.06	976.50	797.63
C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	630.56	495.56	362.25	294.19	159.53	102.26	72.34	56.14	44.44
45.0	680.06	531.56	407.81	294.75	178.76	114.64	77.96	62.72	49.33
90.0	670.11	524.64	390.66	286.14	197.44	115.65	81.23	64.52	50.23
135.0	884.25	713.81	555.19	428.63	302.63	290.81	122.85	80.49	60.13
180.0	893.08	740.48	559.35	430.26	317.03	197.55	124.43	82.07	60.81
225.0	849.26	681.08	527.74	403.54	293.96	178.71	111.49	75.88	55.52
270.0	813.94	650.25	534.38	385.88	291.94	177.64	107.55	76.05	57.77
315.0	645.30	492.53	343.91	254.14	167.63	89.33	68.18	53.44	40.22
360.0	630.56	495.56	362.25	294.19	159.53	102.26	72.34	56.14	44.44
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	35.66	29.59	24.47	21.32	18.90	17.38	15.81	14.85	14.18
45.0	40.33	33.81	29.03	24.24	21.49	19.24	17.04	15.81	14.79
90.0	41.85	35.33	29.59	25.26	22.44	19.69	17.94	16.37	15.19
135.0	46.29	37.63	31.50	25.71	22.44	19.97	17.66	16.43	15.47
180.0	46.63	37.86	30.66	26.16	22.28	19.91	18.00	16.48	15.58
225.0	43.65	35.72	28.91	24.13	21.09	18.68	17.16	15.69	14.79
270.0	44.10	35.66	29.36	23.74	20.70	18.45	16.48	15.36	14.57
315.0	32.18	26.72	22.39	19.24	17.38	15.98	14.96	14.12	13.50
360.0	35.66	29.59	24.47	21.32	18.90	17.38	15.81	14.85	14.18

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	13.50	12.99	12.71	12.26	11.93	11.70	11.42	11.25	11.03
45.0	13.89	13.22	12.77	12.32	11.98	11.70	11.48	11.25	10.97
90.0	14.34	13.67	13.11	12.71	12.38	12.09	11.81	11.59	11.36
135.0	14.57	13.89	13.39	12.94	12.60	12.21	11.87	11.64	11.42
180.0	14.79	14.18	13.61	13.11	12.77	12.38	12.04	11.81	11.48
225.0	14.12	13.50	12.99	12.60	12.26	11.93	11.64	11.42	11.19
270.0	13.89	13.33	12.94	12.60	12.26	11.98	11.76	11.59	11.36
315.0	13.05	12.60	12.32	12.04	11.76	11.42	11.25	11.08	10.86
360.0	13.50	12.99	12.71	12.26	11.93	11.70	11.42	11.25	11.03
C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	10.86	10.69	10.52	10.35	10.24	10.13	10.01	9.96	9.84
45.0	10.86	10.69	10.52	10.46	10.29	10.24	10.07	9.96	9.90
90.0	11.19	11.03	10.91	10.74	10.63	10.46	10.41	10.24	10.13
135.0	11.14	11.03	10.80	10.63	10.52	10.35	10.24	10.18	10.01
180.0	11.25	11.03	10.86	10.69	10.52	10.35	10.24	10.07	10.01
225.0	11.03	10.80	10.63	10.46	10.35	10.18	10.13	9.96	9.90
270.0	11.14	10.97	10.86	10.69	10.58	10.46	10.29	10.24	10.13
315.0	10.69	10.58	10.46	10.29	10.18	10.13	10.01	9.90	9.84
360.0	10.86	10.69	10.52	10.35	10.24	10.13	10.01	9.96	9.84
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	9.84	9.73	9.68	9.62	9.62	9.51	9.45	9.45	9.34
45.0	9.84	9.79	9.68	9.62	9.56	9.51	9.51	9.45	9.39
90.0	10.07	10.01	9.90	9.84	9.79	9.73	9.68	9.62	9.56
135.0	9.90	9.84	9.73	9.68	9.62	9.56	9.51	9.45	9.39
180.0	9.90	9.79	9.73	9.68	9.56	9.51	9.45	9.39	9.34
225.0	9.79	9.68	9.68	9.62	9.51	9.39	9.39	9.34	9.28
270.0	10.01	9.96	9.90	9.79	9.73	9.68	9.62	9.62	9.56
315.0	9.79	9.73	9.62	9.62	9.51	9.51	9.45	9.45	9.39
360.0	9.84	9.73	9.68	9.62	9.62	9.51	9.45	9.45	9.34
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	9.34	9.28	9.23	9.17	9.17	9.17	9.11	9.06	9.00
45.0	9.34	9.28	9.23	9.17	9.17	9.17	9.11	9.06	9.06
90.0	9.51	9.45	9.39	9.34	9.34	9.23	9.23	9.17	9.11
135.0	9.34	9.28	9.23	9.17	9.11	9.11	9.06	9.00	9.00
180.0	9.23	9.23	9.17	9.11	9.11	9.06	9.00	8.94	8.89
225.0	9.23	9.17	9.17	9.11	9.06	9.06	9.00	8.94	8.94
270.0	9.51	9.45	9.39	9.34	9.34	9.28	9.23	9.23	9.17
315.0	9.39	9.34	9.28	9.28	9.23	9.17	9.17	9.17	9.11
360.0	9.34	9.28	9.23	9.17	9.17	9.17	9.11	9.06	9.00
C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	9.00	9.00	9.06	8.94	8.94	8.94	8.72	8.66	8.55
45.0	9.00	8.94	8.94	8.94	8.89	8.89	8.78	8.66	8.55
90.0	9.11	9.06	8.94	8.94	8.89	8.83	8.78	8.66	8.66
135.0	8.94	8.94	8.89	8.83	8.83	8.78	8.78	8.72	8.72
180.0	8.89	8.83	8.78	8.78	8.78	8.72	8.72	8.66	8.61
225.0	8.89	8.89	8.83	8.83	8.78	8.72	8.72	8.66	8.66
270.0	9.17	9.11	9.06	9.00	8.94	8.89	8.78	8.72	8.66
315.0	9.11	9.06	9.06	9.06	9.06	8.78	8.72	8.72	8.61
360.0	9.00	9.00	9.06	8.94	8.94	8.94	8.72	8.66	8.55

Intensity data(cd)

C/γ(°)	90.0
0.0	8.49
45.0	8.55
90.0	8.61
135.0	8.72
180.0	8.66
225.0	8.66
270.0	8.61
315.0	8.61
360.0	8.49