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NATA

Client:

LumCAT: 3-2899-F

Luminaire: 92.70.466.00

Report No: 20260717-C001

Ballast type:

Test No: 20260717-C001

LampCAT: BRIDGELUX 2835

Lamp flux(lm): 1558.7

Number of Lamps: 1

Length(mm): -113

Phm Type: C

Voltage(V): 0.000

Current(A): 0.000

Power (W): 9.867

PF: 0.000

Width(mm): -113

Height(mm): 0

Photometric Results

Lumens(lm): 1195.48, Efficiency(%): 76.70% , Luminous Efficacy(lm/W): 121.16

Central intensity(cd): 1411.600, Maximum intensity(cd): 1411.600

Angle of maximum intensity: C=0.0 γ =0.0

Beam Angle(50%Imax): [C0/180]Total=56.6

[C90/270]Total=56.6

Field angle(10%Imax): [C0/180]Total=87.2

[C90/270]Total=87.1

Maximum s/h(1/2): C0_180=0.85 C90_270=0.84

Maximum s/h(1/4): C0_180=0.90 C90_270=0.88

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 76.70%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.871%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1411.600	0.000	0	0.00%	0.00%
2.0	1406.675	5.394	5.394	0.35%	0.45%
4.0	1391.650	16.060	21.453	1.03%	1.79%
6.0	1367.375	26.369	47.822	1.69%	4.00%
8.0	1334.175	36.103	83.925	2.32%	7.02%
10.0	1293.050	45.068	128.992	2.89%	10.79%
12.0	1243.000	53.063	182.055	3.40%	15.23%
14.0	1185.875	59.914	241.969	3.84%	20.24%
16.0	1122.325	65.510	307.479	4.20%	25.72%
18.0	1055.400	69.819	377.298	4.48%	31.56%
20.0	986.643	72.902	450.2	4.68%	37.66%
22.0	917.295	74.820	525.02	4.80%	43.92%
24.0	849.213	75.688	600.708	4.86%	50.25%
26.0	782.115	75.600	676.309	4.85%	56.57%
28.0	714.778	74.520	750.829	4.78%	62.81%
30.0	643.745	72.223	823.052	4.63%	68.85%
32.0	565.533	68.297	891.348	4.38%	74.56%
34.0	482.535	62.594	953.942	4.02%	79.80%
36.0	400.848	55.562	1009.504	3.56%	84.44%
38.0	322.565	47.740	1057.244	3.06%	88.44%
40.0	249.533	39.480	1096.724	2.53%	91.74%
42.0	184.750	31.243	1127.967	2.00%	94.35%
44.0	130.413	23.570	1151.537	1.51%	96.32%
46.0	85.003	16.703	1168.24	1.07%	97.72%
48.0	52.466	11.025	1179.264	0.71%	98.64%
50.0	30.172	6.839	1186.103	0.44%	99.22%
52.0	15.519	3.894	1189.997	0.25%	99.54%
54.0	7.117	1.982	1191.98	0.13%	99.71%
56.0	3.611	0.964	1192.943	0.06%	99.79%
58.0	2.526	0.564	1193.508	0.04%	99.84%
60.0	1.986	0.424	1193.932	0.03%	99.87%
62.0	1.563	0.340	1194.272	0.02%	99.90%
64.0	1.222	0.272	1194.544	0.02%	99.92%
66.0	0.939	0.215	1194.759	0.01%	99.94%
68.0	0.719	0.167	1194.927	0.01%	99.95%
70.0	0.546	0.130	1195.056	0.01%	99.96%
72.0	0.409	0.099	1195.155	0.01%	99.97%
74.0	0.306	0.075	1195.23	0.00%	99.98%

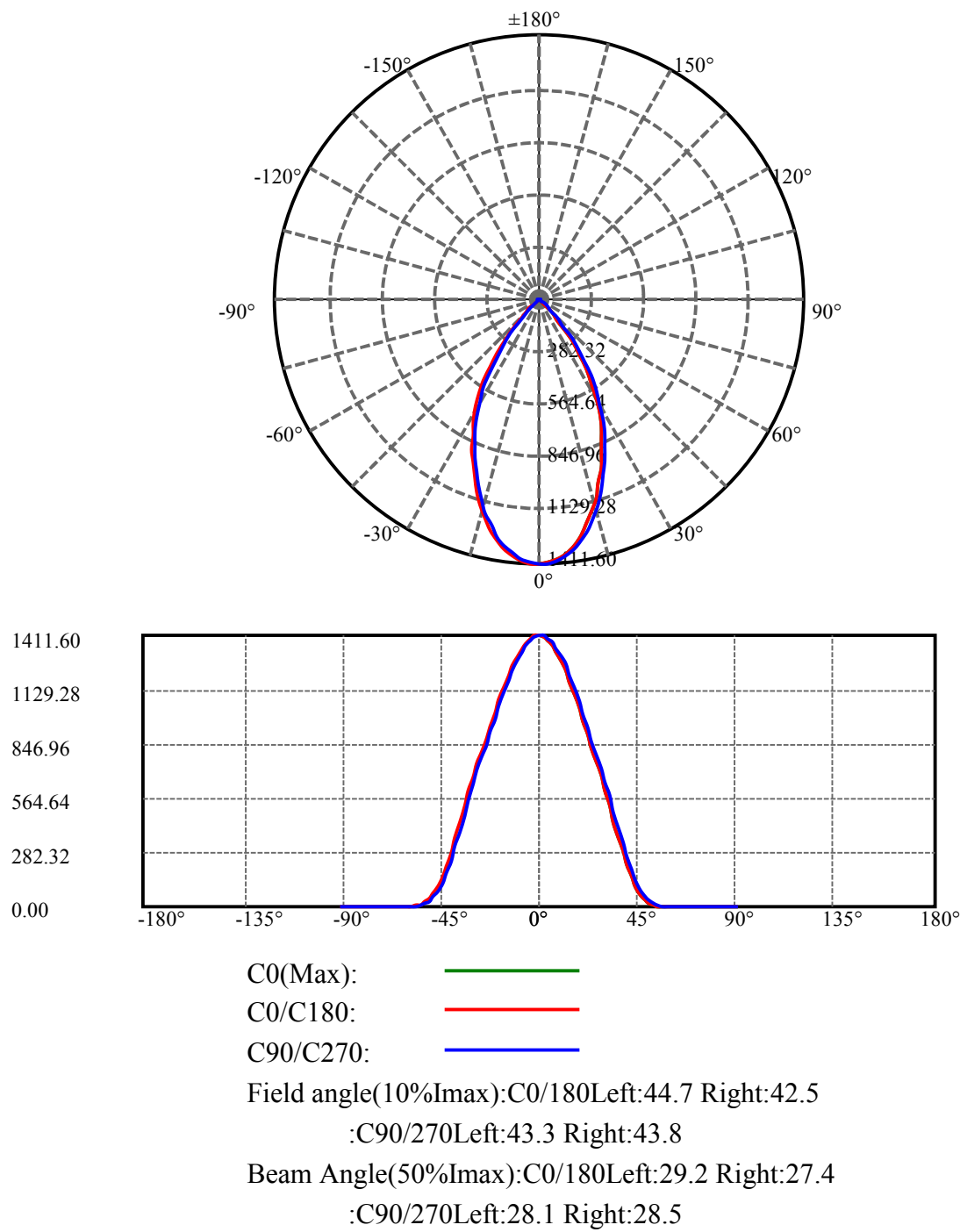
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	0.244	0.058	1195.288	0.00%	99.98%
78.0	0.188	0.046	1195.334	0.00%	99.99%
80.0	0.136	0.035	1195.369	0.00%	99.99%
82.0	0.112	0.027	1195.396	0.00%	99.99%
84.0	0.098	0.023	1195.419	0.00%	100.00%
86.0	0.087	0.020	1195.439	0.00%	100.00%
88.0	0.084	0.019	1195.458	0.00%	100.00%
90.0	0.084	0.018	1195.476	0.00%	100.00%

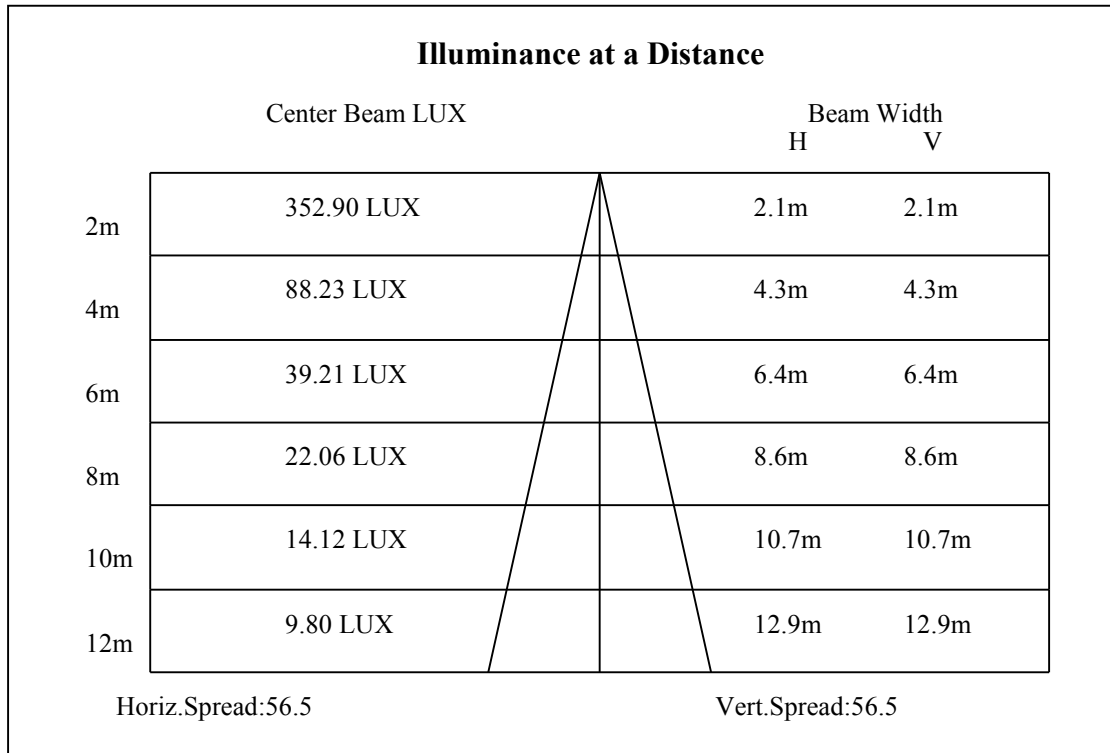
ZONAL LUMEN SUMMARY

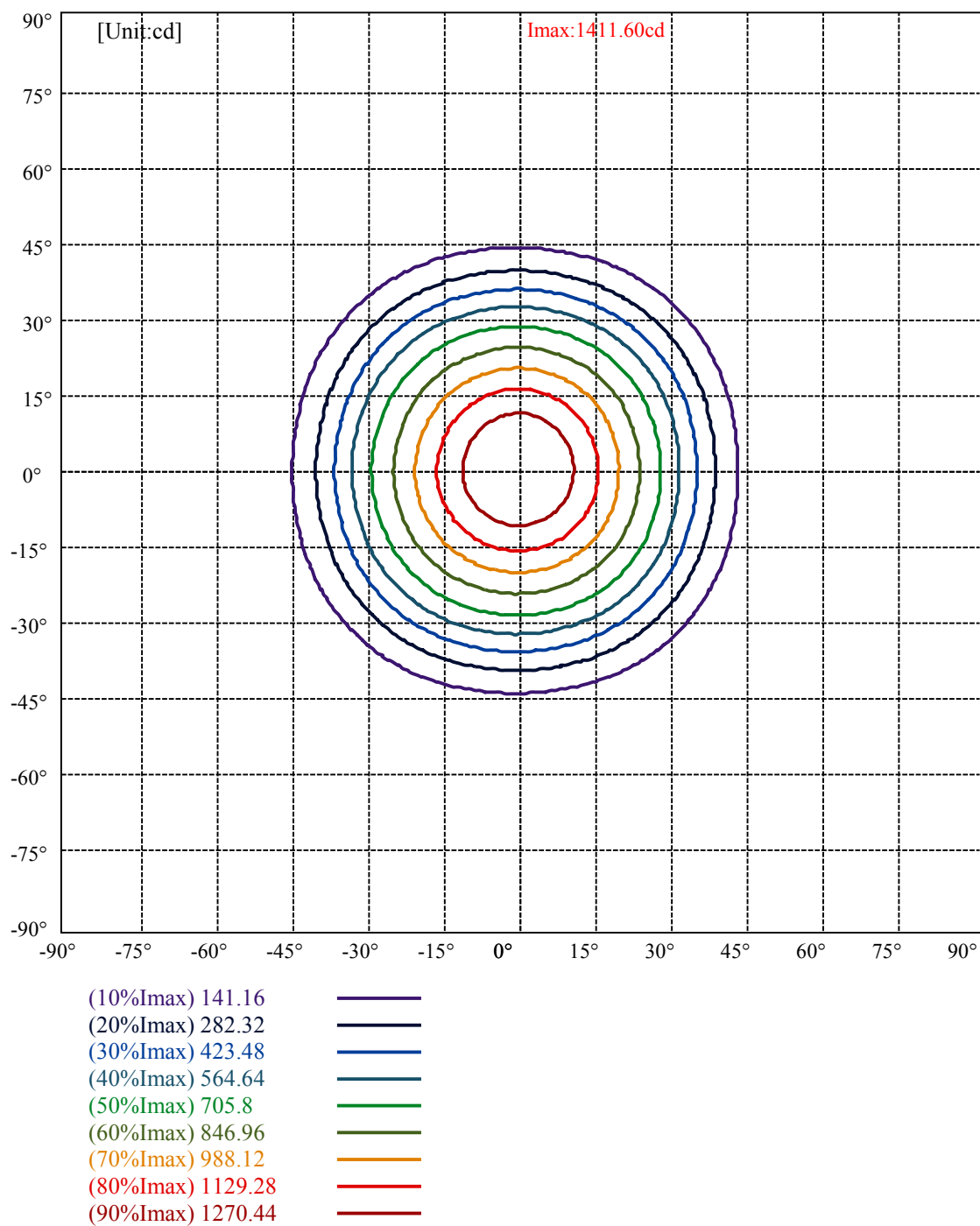
Zone	Lumens	%Lamp	%Fixt
0-30	823.05	52.80%	68.85%
0-40	1096.72	70.36%	91.74%
0-60	1193.93	76.60%	99.87%
0-90	1195.46	76.70%	100.00%
0-120	1195.46	76.70%	100.00%
0-180	1195.48	76.70%	100.00%
60-90	1.53	0.10%	0.13%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-34.09	956.38	61.36%	80.00%

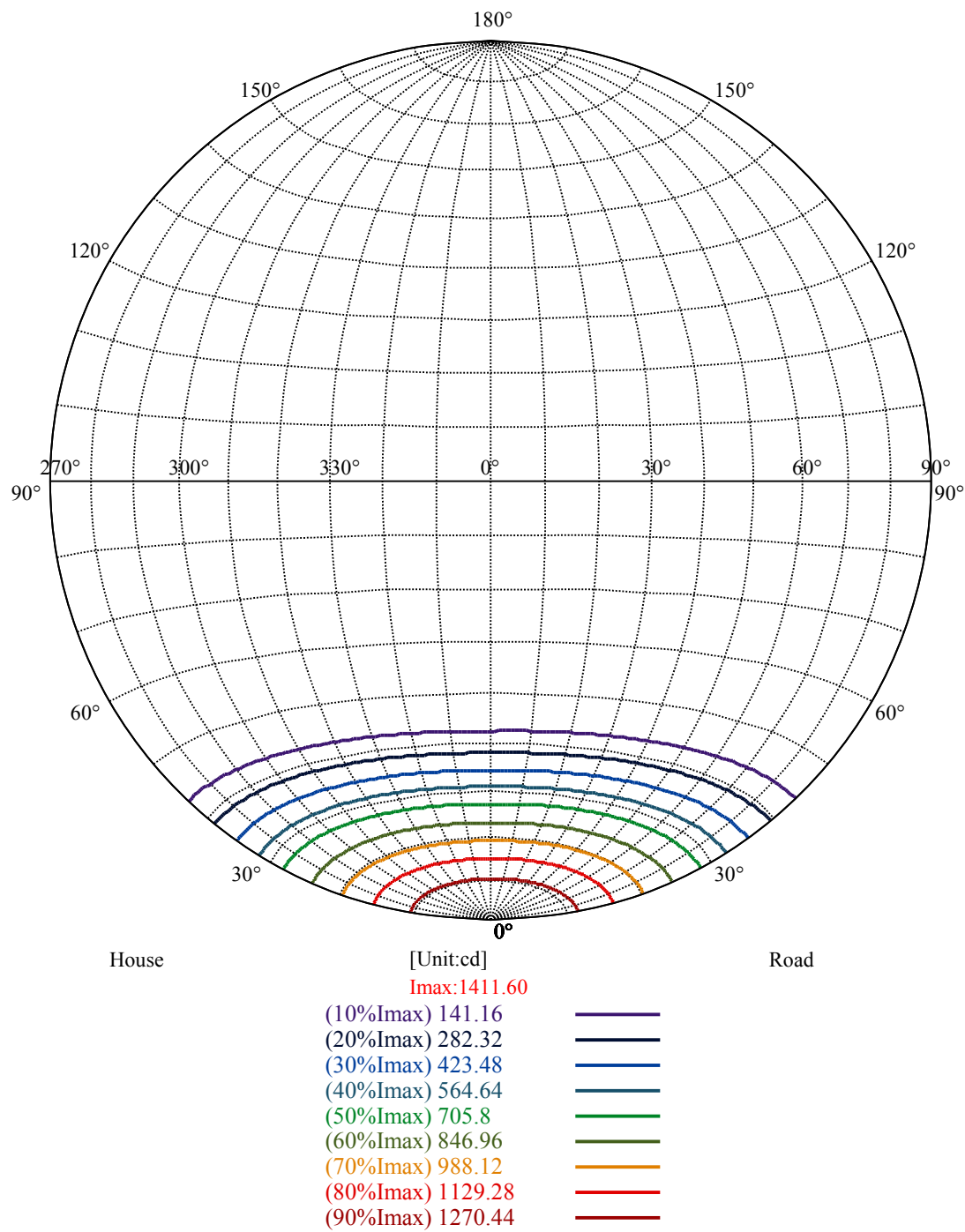
ZONAL LUMEN SUMMARY

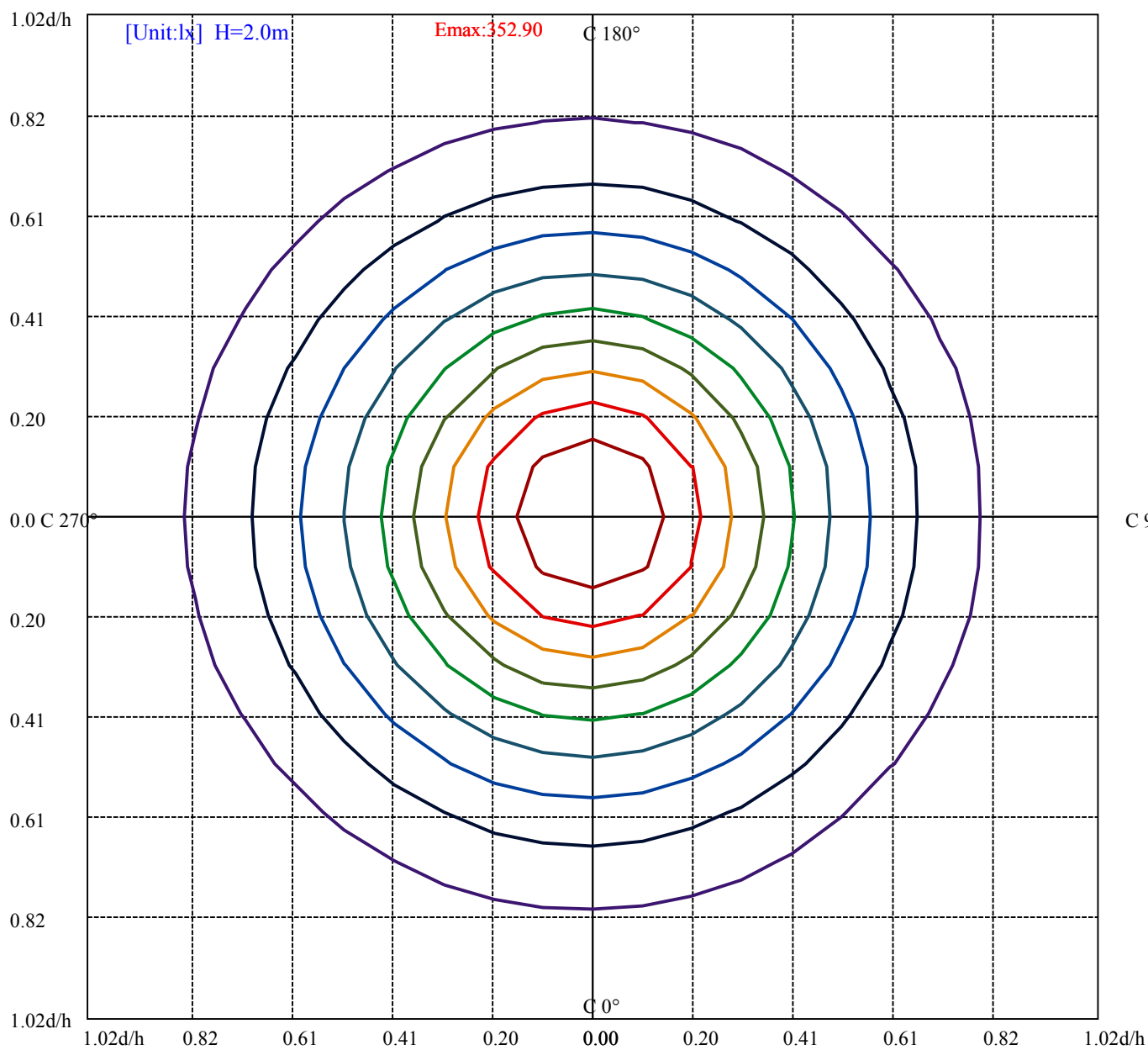
0-10	128.99
10-20	321.21
20-30	372.85
30-40	273.67
40-50	89.38
50-60	7.83
60-70	1.12
70-80	0.31
80-90	0.09
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00











(10%Emax) 35.29

(20%Emax) 70.58

(30%Emax) 105.87

(40%Emax) 141.16

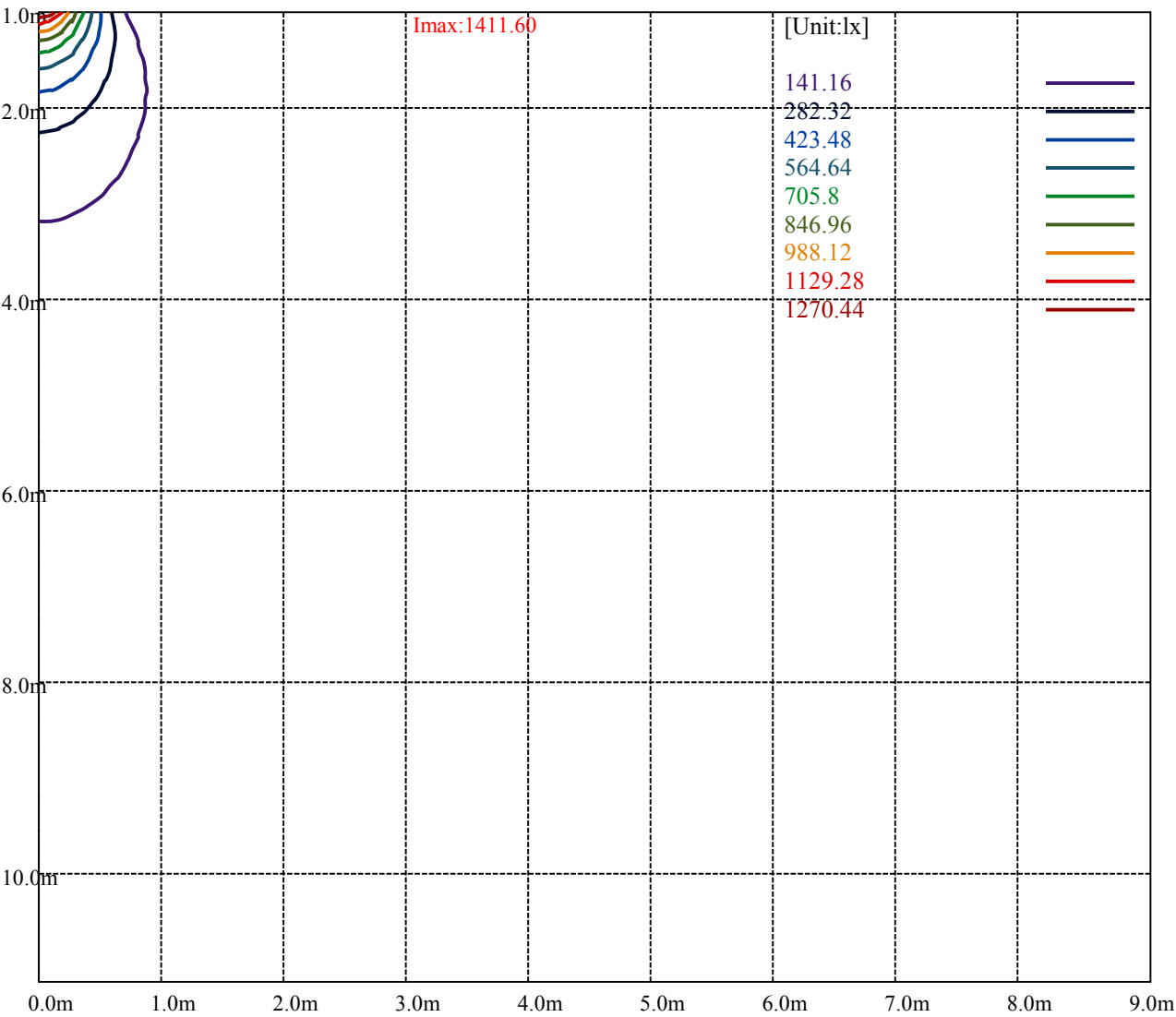
(50%Emax) 176.45

(60%Emax) 211.74

(70%Emax) 247.03

(80%Emax) 282.32

(90%Emax) 317.61



Luminance Limiting Curve(no luminous side)

Luminance Table

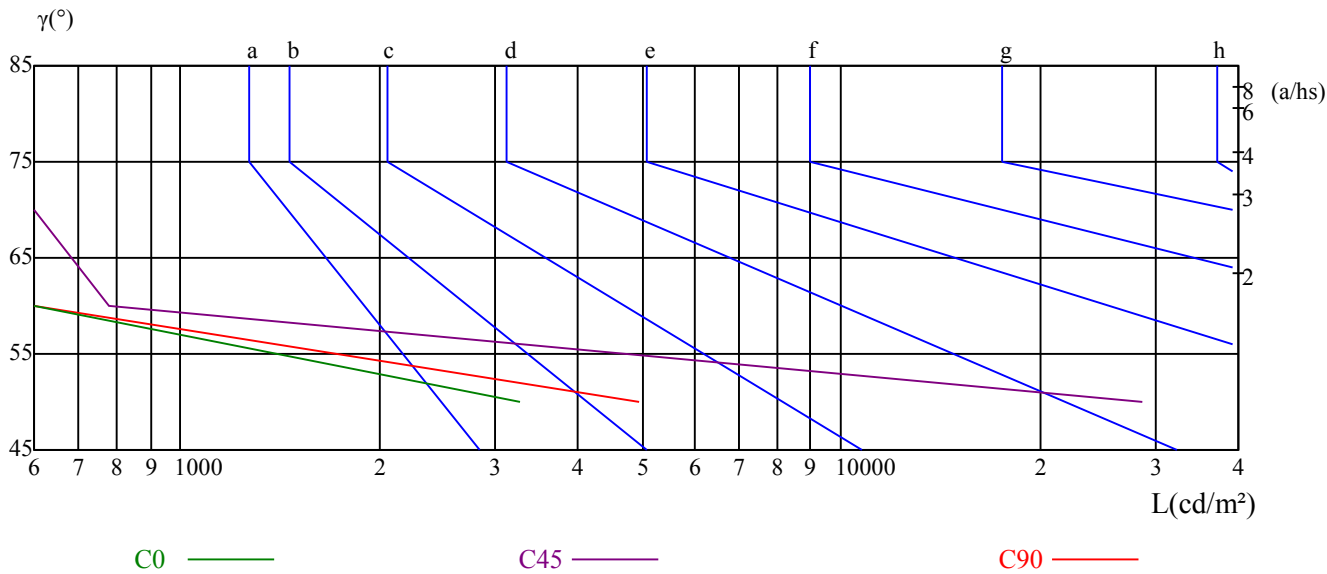
γ	45	50	55	60	65	70	75	80	85
C0	0	3273	0	318	0	126	0	59	0
C45	0	28667	0	778	0	292	0	115	0
C90	0	4937	0	375	0	145	0	47	0

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

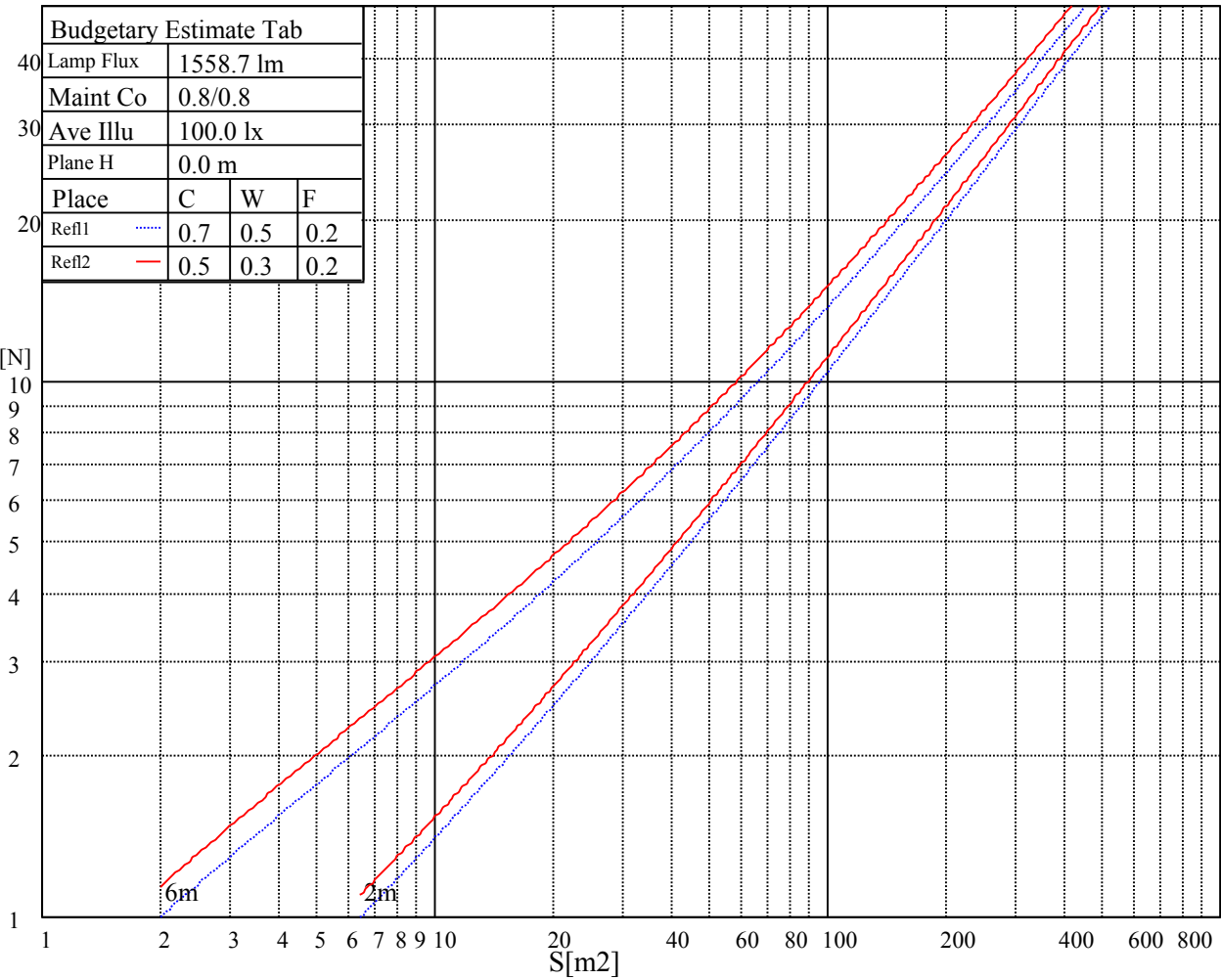
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

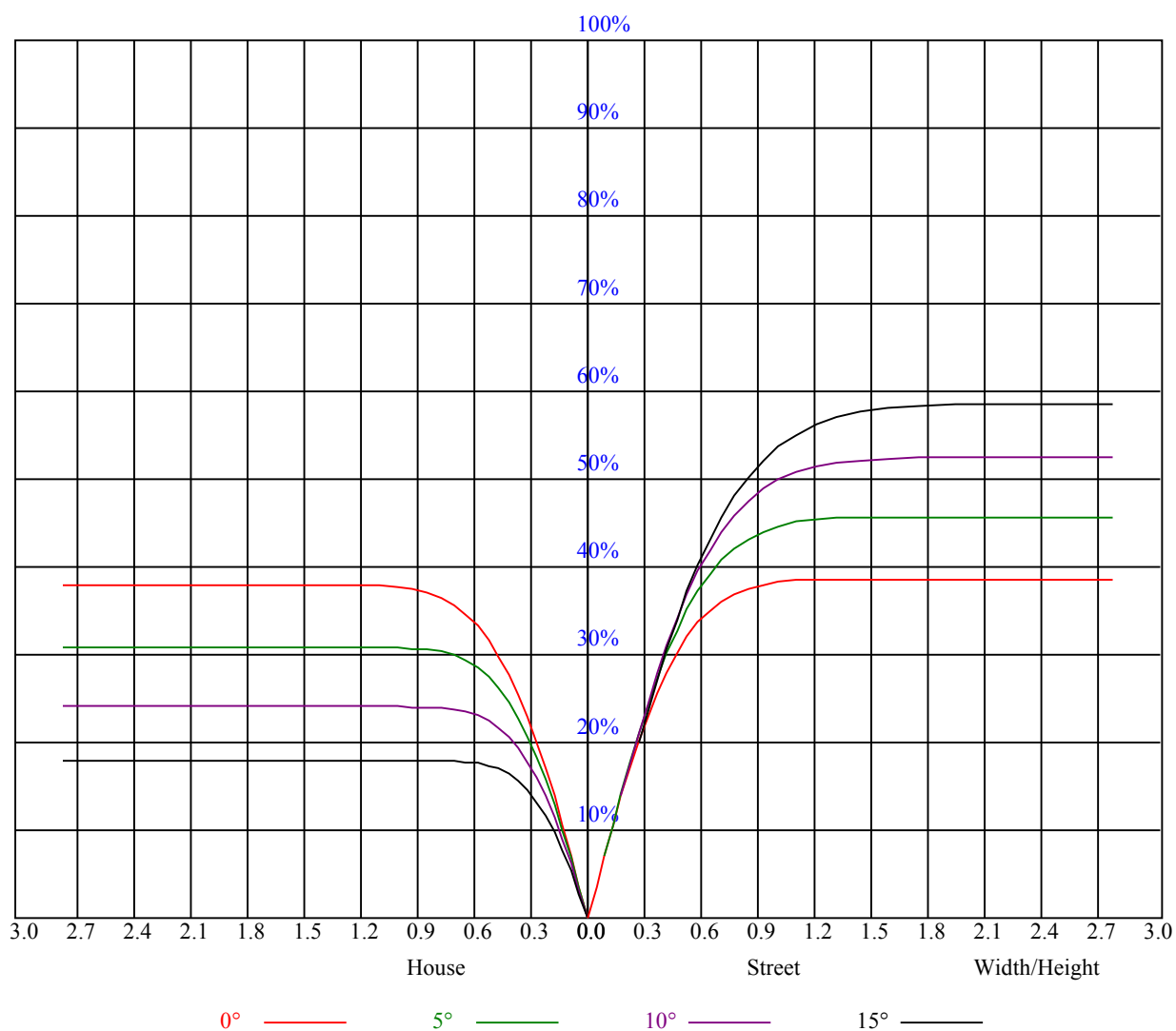


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	17.72	18.71	18.08	19.02	19.33	18.29	19.28	18.65	19.59	19.90
	3H	17.52	18.39	17.90	18.73	19.07	18.08	18.96	18.47	19.29	19.64
	4H	17.41	18.22	17.81	18.57	18.94	17.98	18.79	18.38	19.14	19.51
	6H	17.32	18.06	17.74	18.43	18.83	17.89	18.63	18.31	19.00	19.40
	8H	17.25	17.95	17.67	18.33	18.74	17.81	18.52	18.24	18.90	19.31
	12H	17.17	17.84	17.60	18.23	18.65	17.74	18.41	18.17	18.80	19.22
4H	2H	17.41	18.22	17.81	18.57	18.94	17.98	18.79	18.38	19.14	19.51
	3H	17.17	17.84	17.60	18.23	18.65	17.74	18.41	18.16	18.80	19.22
	4H	17.09	17.67	17.53	18.09	18.54	17.66	18.23	18.10	18.66	19.11
	6H	16.95	17.45	17.42	17.91	18.36	17.51	18.02	17.99	18.47	18.93
	8H	16.89	17.35	17.37	17.81	18.29	17.45	17.92	17.94	18.38	18.86
	12H	16.83	17.26	17.32	17.72	18.24	17.40	17.83	17.89	18.28	18.81
8H	4H	16.89	17.35	17.37	17.81	18.29	17.45	17.92	17.94	18.38	18.86
	6H	16.72	17.11	17.23	17.59	18.10	17.29	17.68	17.80	18.16	18.67
	8H	16.70	17.03	17.24	17.55	18.05	17.27	17.59	17.81	18.12	18.62
	12H	16.65	16.90	17.19	17.41	17.94	17.21	17.46	17.76	17.98	18.50
12H	4H	16.83	17.26	17.32	17.72	18.24	17.40	17.83	17.89	18.28	18.80
	6H	16.70	17.03	17.24	17.55	18.05	17.27	17.59	17.81	18.12	18.62
	8H	16.65	16.90	17.19	17.41	17.94	17.21	17.46	17.76	17.98	18.50
Variation with the observer position at spacings:											
S = 1.0H		4.3/-19.6					4.4/-20.5				
S = 1.5H		7.1/-24.4					7.2/-24.6				
S = 2.0H		9.1/-26.4					9.2/-26.2				
Standard tables:		BK0					BK0				
Uncorrected UGR		-0.8					-1.4				

UGR calculation is based on CIE Publ. 117 ,S/H = 0.25



RHOC	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	0.85	0.83	0.81	0.83	0.82	0.80	0.80	0.79	0.78	0.77	0.76	0.75	0.75	0.74	0.73	0.72
2	0.79	0.76	0.73	0.78	0.75	0.73	0.75	0.73	0.71	0.73	0.71	0.69	0.71	0.69	0.68	0.67
3	0.74	0.70	0.67	0.73	0.69	0.66	0.71	0.68	0.65	0.69	0.66	0.64	0.67	0.65	0.63	0.62
4	0.69	0.64	0.61	0.68	0.64	0.61	0.66	0.63	0.60	0.65	0.62	0.59	0.63	0.61	0.59	0.58
5	0.64	0.60	0.56	0.64	0.59	0.56	0.62	0.59	0.56	0.61	0.58	0.55	0.60	0.57	0.55	0.54
6	0.60	0.56	0.52	0.60	0.55	0.52	0.59	0.55	0.52	0.57	0.54	0.51	0.56	0.53	0.51	0.50
7	0.57	0.52	0.49	0.56	0.52	0.49	0.55	0.51	0.48	0.54	0.51	0.48	0.53	0.50	0.48	0.47
8	0.53	0.49	0.45	0.53	0.48	0.45	0.52	0.48	0.45	0.51	0.48	0.45	0.50	0.47	0.45	0.44
9	0.50	0.46	0.43	0.50	0.46	0.43	0.49	0.45	0.42	0.48	0.45	0.42	0.48	0.45	0.42	0.41
10	0.47	0.43	0.40	0.47	0.43	0.40	0.47	0.43	0.40	0.46	0.42	0.40	0.45	0.42	0.40	0.39



Intensity data(cd)

C/ γ (°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	1411.60	1405.20	1388.00	1361.40	1325.30	1280.30	1226.40	1166.60	1100.70
90.0	1411.60	1409.40	1397.40	1376.00	1345.80	1307.20	1258.60	1201.30	1136.60
180.0	1411.60	1408.10	1394.60	1371.70	1340.00	1301.80	1255.30	1201.80	1141.80
270.0	1411.60	1404.00	1386.60	1360.40	1325.60	1282.90	1231.70	1173.80	1110.20
360.0	1411.60	1405.20	1388.00	1361.40	1325.30	1280.30	1226.40	1166.60	1100.70
C/ γ (°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1032.00	961.40	891.78	821.17	752.93	683.93	608.48	525.39	442.58
90.0	1068.40	998.19	927.61	858.40	789.74	721.74	652.47	576.26	493.14
180.0	1077.60	1010.40	942.08	875.10	809.84	745.05	677.37	606.44	524.17
270.0	1043.60	976.58	907.71	842.18	775.95	708.39	636.66	554.04	470.25
360.0	1032.00	961.40	891.78	821.17	752.93	683.93	608.48	525.39	442.58
C/ γ (°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	361.60	285.01	215.70	154.29	103.66	65.60	38.93	21.10	9.76
90.0	411.79	333.55	259.17	193.69	136.37	89.84	55.34	31.83	16.42
180.0	440.36	359.80	283.75	214.54	159.55	104.62	66.62	40.05	22.13
270.0	389.64	311.90	239.51	176.48	122.07	79.95	48.97	27.72	13.77
360.0	361.60	285.01	215.70	154.29	103.66	65.60	38.93	21.10	9.76
C/ γ (°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	4.34	2.65	2.02	1.60	1.25	0.97	0.74	0.57	0.43
90.0	7.21	3.40	2.41	1.88	1.47	1.14	0.87	0.66	0.50
180.0	10.87	4.86	3.03	2.36	1.85	1.43	1.08	0.82	0.60
270.0	6.04	3.53	2.65	2.11	1.69	1.35	1.07	0.83	0.66
360.0	4.34	2.65	2.02	1.60	1.25	0.97	0.74	0.57	0.43
C/ γ (°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	0.32	0.23	0.20	0.15	0.10	0.09	0.09	0.09	0.09
90.0	0.37	0.27	0.20	0.14	0.08	0.07	0.07	0.07	0.08
180.0	0.44	0.33	0.26	0.21	0.17	0.14	0.11	0.09	0.08
270.0	0.50	0.39	0.32	0.26	0.19	0.15	0.12	0.10	0.09
360.0	0.32	0.23	0.20	0.15	0.10	0.09	0.09	0.09	0.09
C/ γ (°)	90.0								
0.0	0.09								
90.0	0.08								
180.0	0.08								
270.0	0.09								
360.0	0.09								