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NATA

Client:

LumCAT: 4-2743-F

Luminaire: 92.70.467.00

Report No: 20260717-C002

Ballast type:

Test No: 20260717-C002

LampCAT: BRIDGELUX 2835

Lamp flux(lm): 2338.2

Number of Lamps: 1

Length(mm): -110

Phm Type: C

Voltage(V): 0.000

Current(A): 0.000

Power (W): 14.749

PF: 0.000

Width(mm): -110

Height(mm): 0

Photometric Results

Lumens(lm): 1849.91, Efficiency(%): 79.12% , Luminous Efficacy(lm/W): 125.43

Central intensity(cd): 2087.300, Maximum intensity(cd): 2093.900

Angle of maximum intensity: C=90.0 $\gamma=2.0$

Beam Angle(50%Imax): [C0/180]Total=56.7

[C90/270]Total=56.8

Field angle(10%Imax): [C0/180]Total=89.3

[C90/270]Total=89.5

Maximum s/h(1/2): C0_180=0.86 C90_270=0.92

Maximum s/h(1/4): C0_180=0.90 C90_270=0.95

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 79.12%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.907%

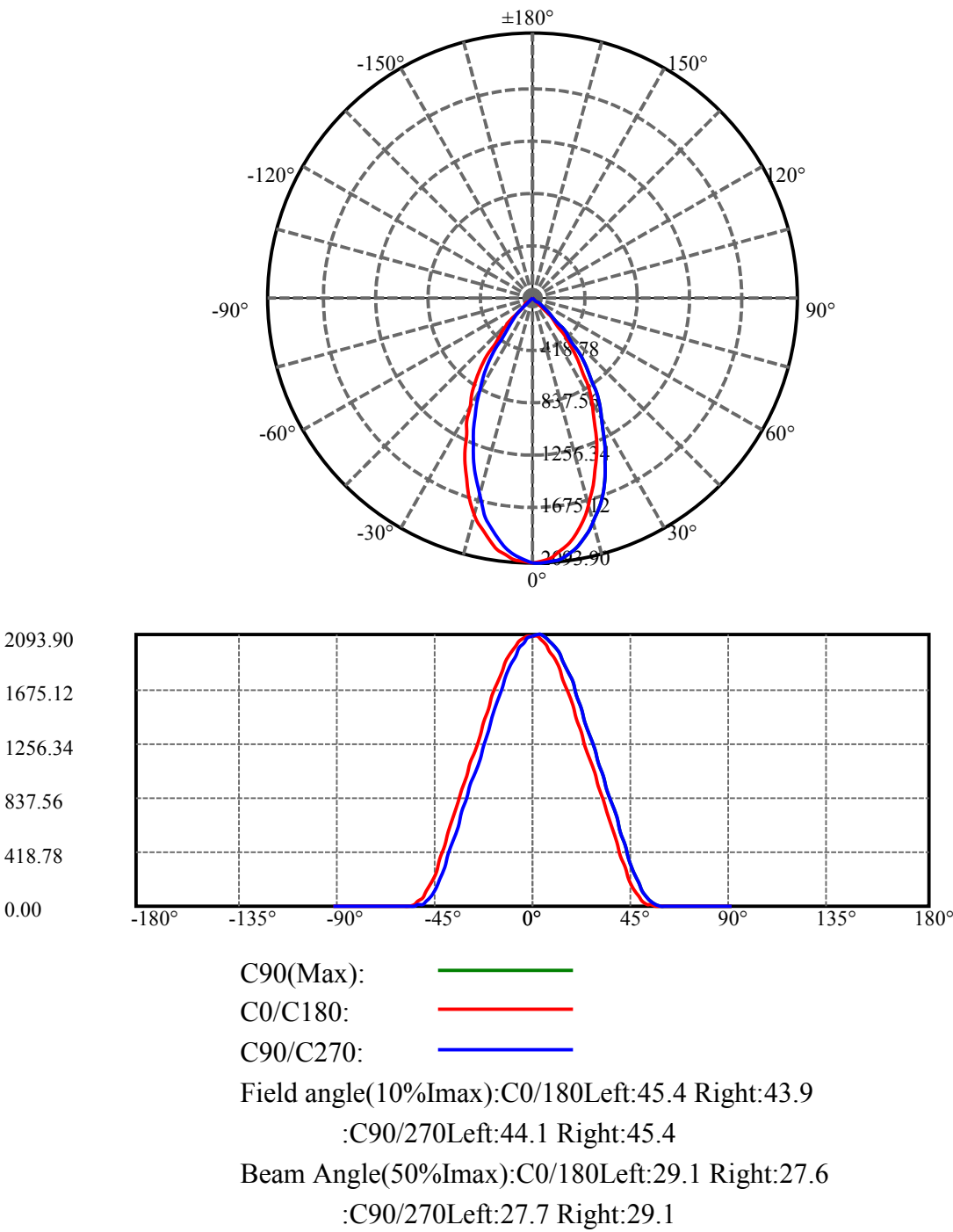
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2087.300	0.000	0	0.00%	0.00%
2.0	2081.150	7.977	7.977	0.34%	0.43%
4.0	2062.275	23.779	31.757	1.02%	1.72%
6.0	2030.750	39.118	70.874	1.67%	3.83%
8.0	1986.125	53.681	124.555	2.30%	6.73%
10.0	1928.975	67.160	191.715	2.87%	10.36%
12.0	1858.875	79.255	270.97	3.39%	14.65%
14.0	1778.550	89.726	360.696	3.84%	19.50%
16.0	1687.750	98.378	459.074	4.21%	24.82%
18.0	1590.050	105.088	564.162	4.49%	30.50%
20.0	1486.800	109.846	674.008	4.70%	36.43%
22.0	1380.400	112.674	786.681	4.82%	42.53%
24.0	1273.725	113.719	900.401	4.86%	48.67%
26.0	1167.600	113.138	1013.539	4.84%	54.79%
28.0	1065.155	111.153	1124.692	4.75%	60.80%
30.0	964.045	107.878	1232.57	4.61%	66.63%
32.0	863.020	103.188	1335.758	4.41%	72.21%
34.0	759.085	96.877	1432.635	4.14%	77.44%
36.0	651.518	88.722	1521.357	3.79%	82.24%
38.0	541.565	78.735	1600.092	3.37%	86.50%
40.0	433.433	67.284	1667.376	2.88%	90.13%
42.0	333.808	55.196	1722.572	2.36%	93.12%
44.0	243.750	43.193	1765.765	1.85%	95.45%
46.0	165.372	31.723	1797.488	1.36%	97.17%
48.0	104.660	21.656	1819.144	0.93%	98.34%
50.0	60.778	13.691	1832.836	0.59%	99.08%
52.0	31.711	7.882	1840.717	0.34%	99.50%
54.0	15.019	4.092	1844.81	0.18%	99.72%
56.0	6.701	1.951	1846.761	0.08%	99.83%
58.0	3.279	0.918	1847.678	0.04%	99.88%
60.0	2.168	0.512	1848.19	0.02%	99.91%
62.0	1.695	0.370	1848.561	0.02%	99.93%
64.0	1.327	0.295	1848.856	0.01%	99.94%
66.0	1.028	0.234	1849.09	0.01%	99.96%
68.0	0.783	0.183	1849.273	0.01%	99.97%
70.0	0.590	0.141	1849.414	0.01%	99.97%
72.0	0.439	0.107	1849.52	0.00%	99.98%
74.0	0.333	0.081	1849.601	0.00%	99.98%

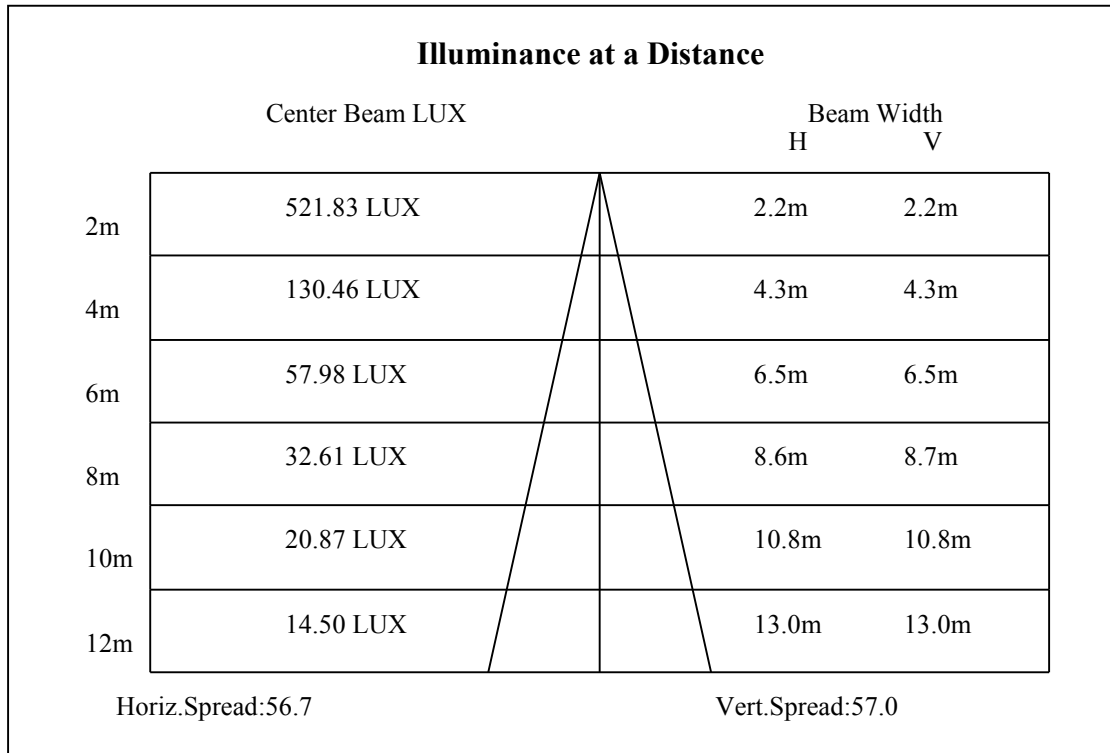
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	0.255	0.062	1849.664	0.00%	99.99%
78.0	0.205	0.049	1849.713	0.00%	99.99%
80.0	0.174	0.041	1849.753	0.00%	99.99%
82.0	0.153	0.035	1849.789	0.00%	99.99%
84.0	0.140	0.032	1849.821	0.00%	99.99%
86.0	0.136	0.030	1849.851	0.00%	100.00%
88.0	0.141	0.030	1849.881	0.00%	100.00%
90.0	0.162	0.033	1849.914	0.00%	100.00%

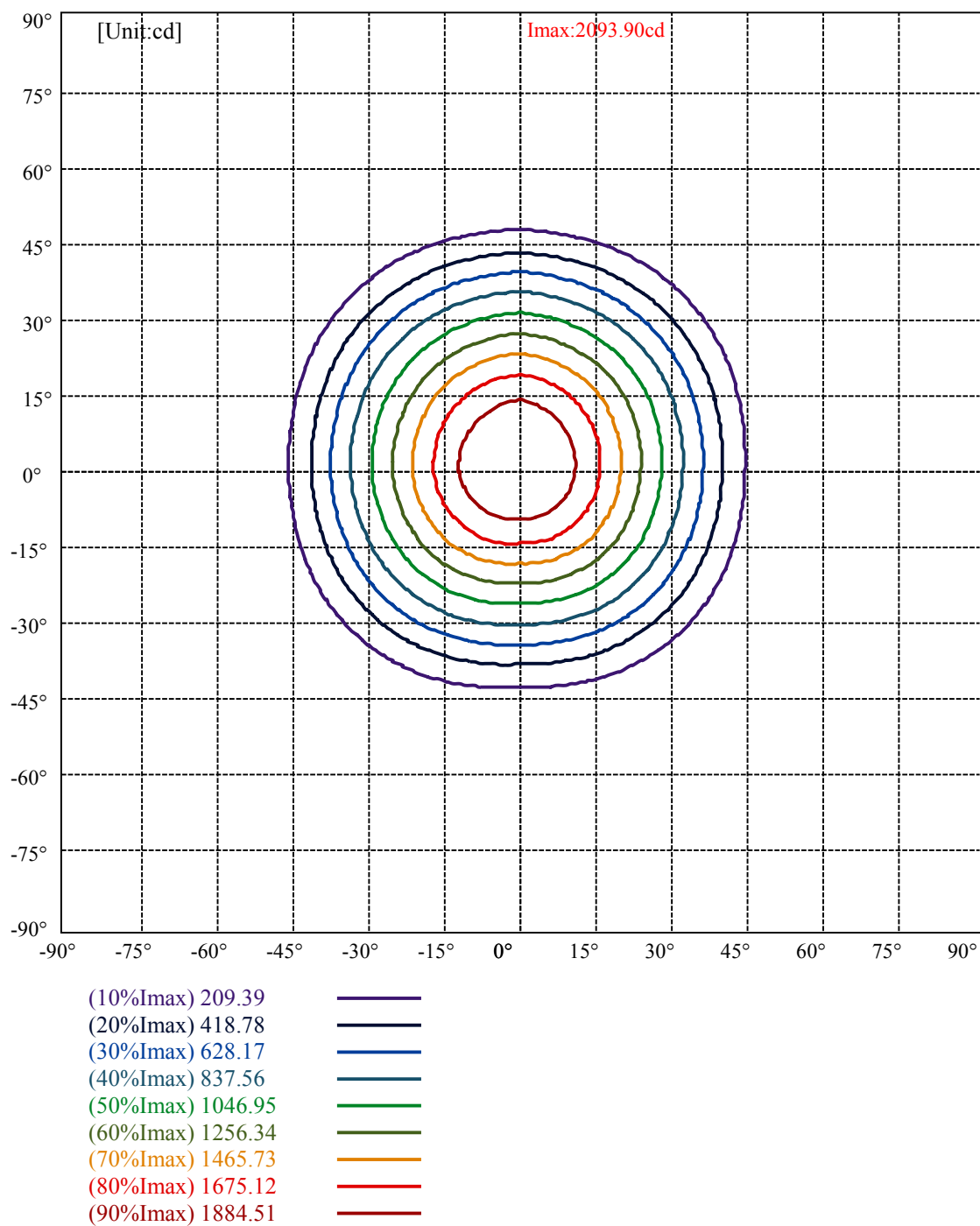
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	1232.57	52.71%	66.63%
0-40	1667.38	71.31%	90.13%
0-60	1848.19	79.04%	99.91%
0-90	1849.88	79.12%	100.00%
0-120	1849.88	79.12%	100.00%
0-180	1849.91	79.12%	100.00%
60-90	1.69	0.07%	0.09%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-35.07	1479.93	63.29%	80.00%

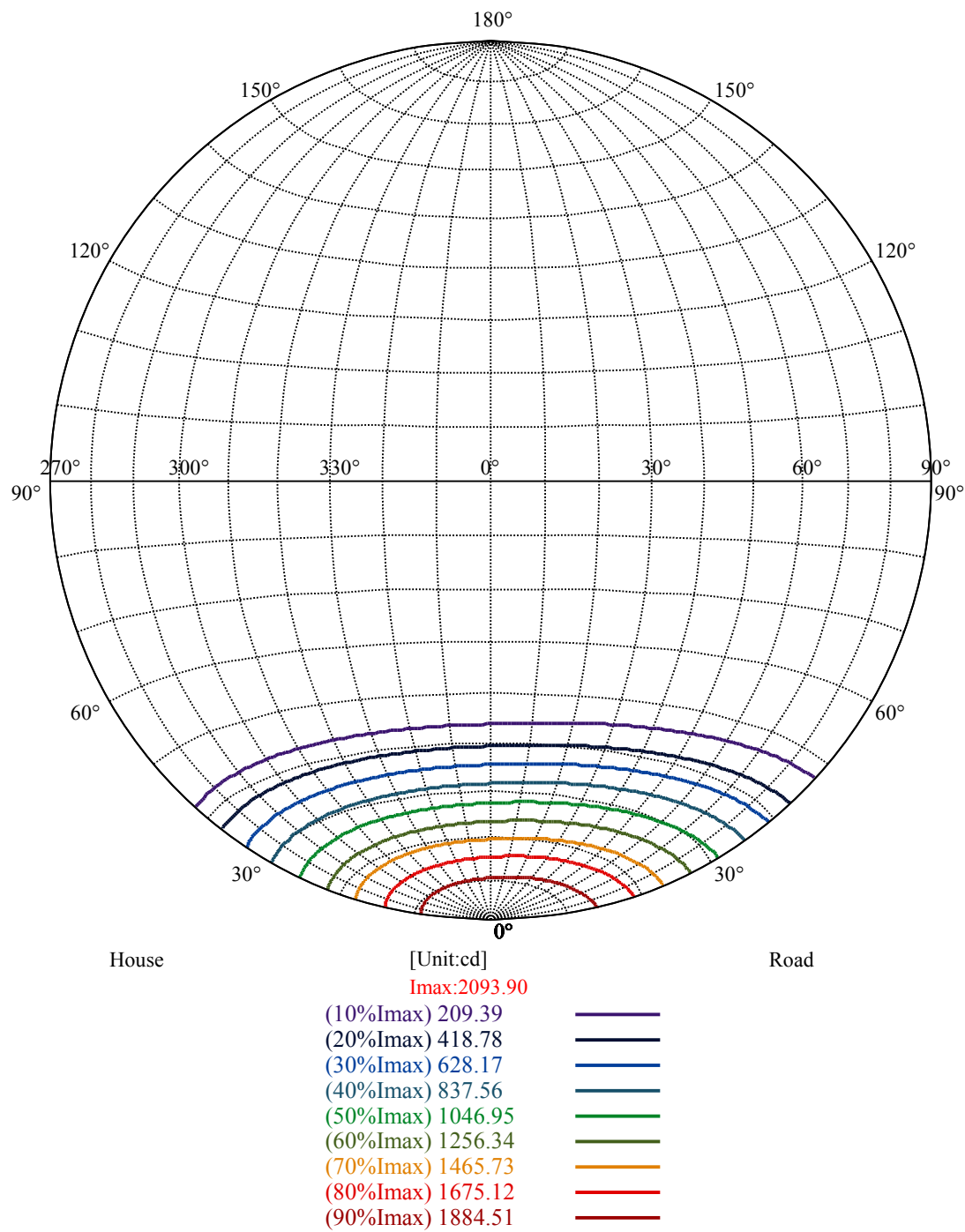
ZONAL LUMEN SUMMARY

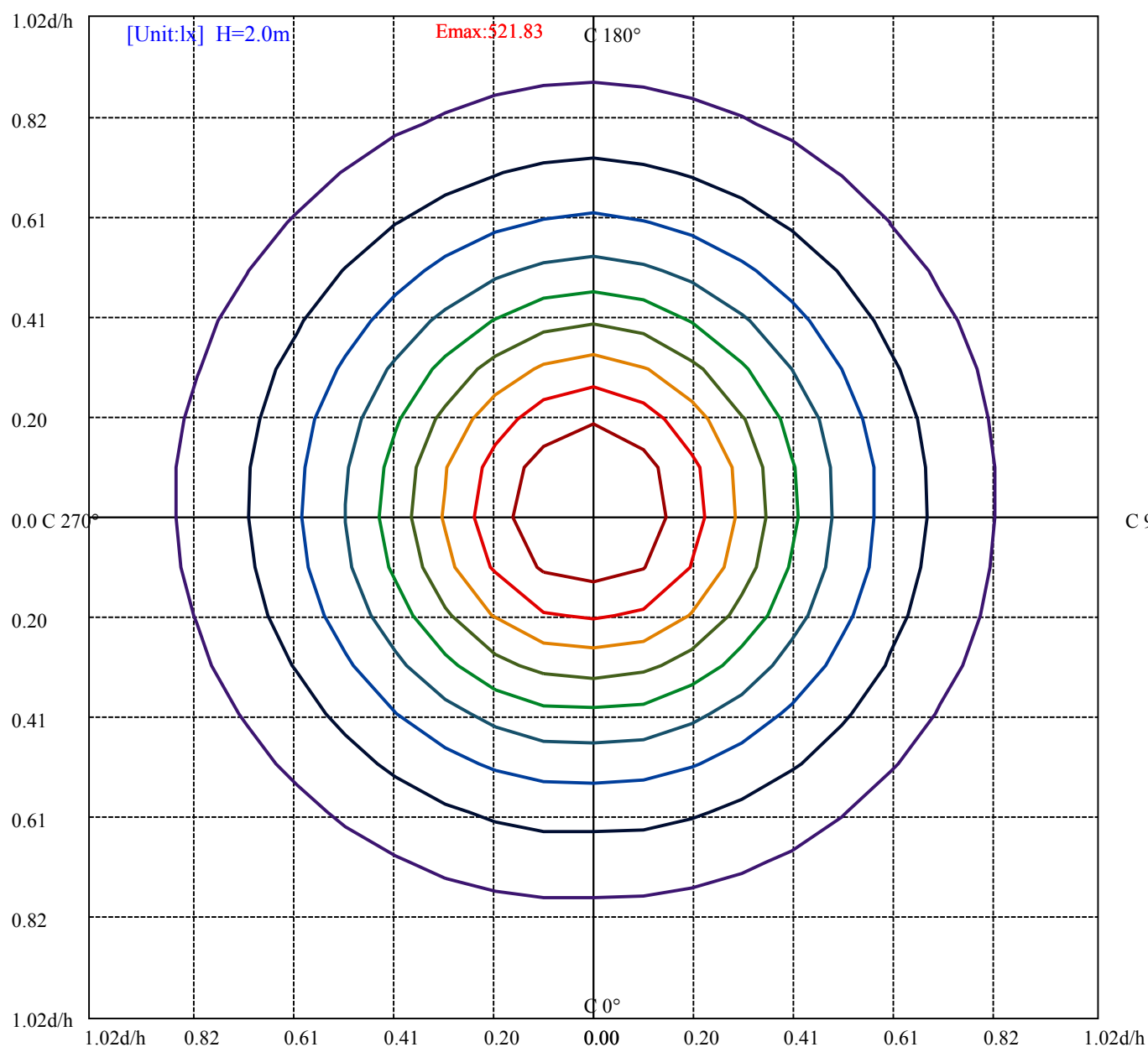
0-10	191.72
10-20	482.29
20-30	558.56
30-40	434.81
40-50	165.46
50-60	15.35
60-70	1.22
70-80	0.34
80-90	0.13
90-100	0.00
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00



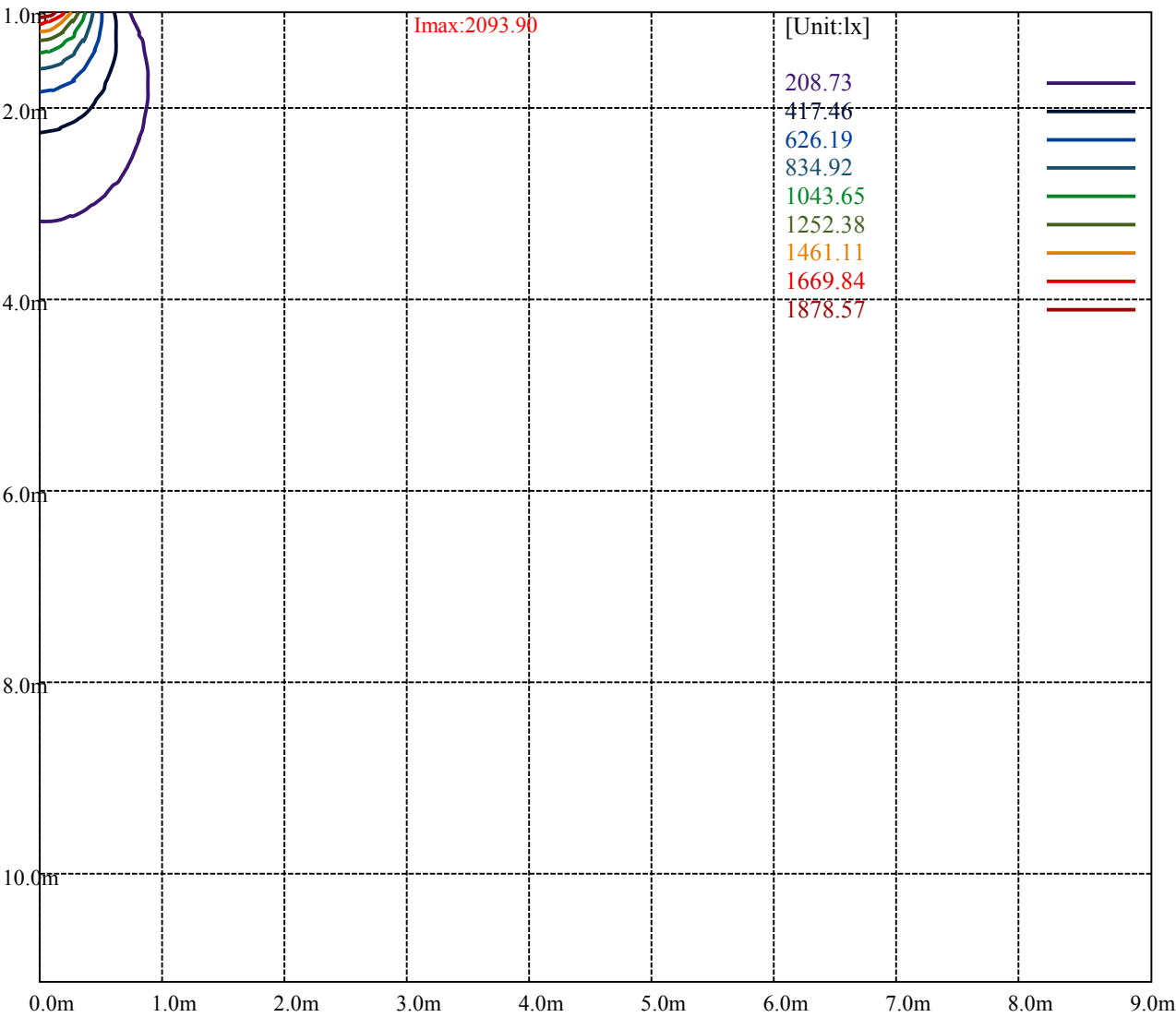








(10%Emax) 52.1825	—
(20%Emax) 104.365	—
(30%Emax) 156.5475	—
(40%Emax) 208.73	—
(50%Emax) 260.9125	—
(60%Emax) 313.095	—
(70%Emax) 365.2775	—
(80%Emax) 417.46	—
(90%Emax) 469.6425	—



Luminance Limiting Curve(no luminous side)

Luminance Table

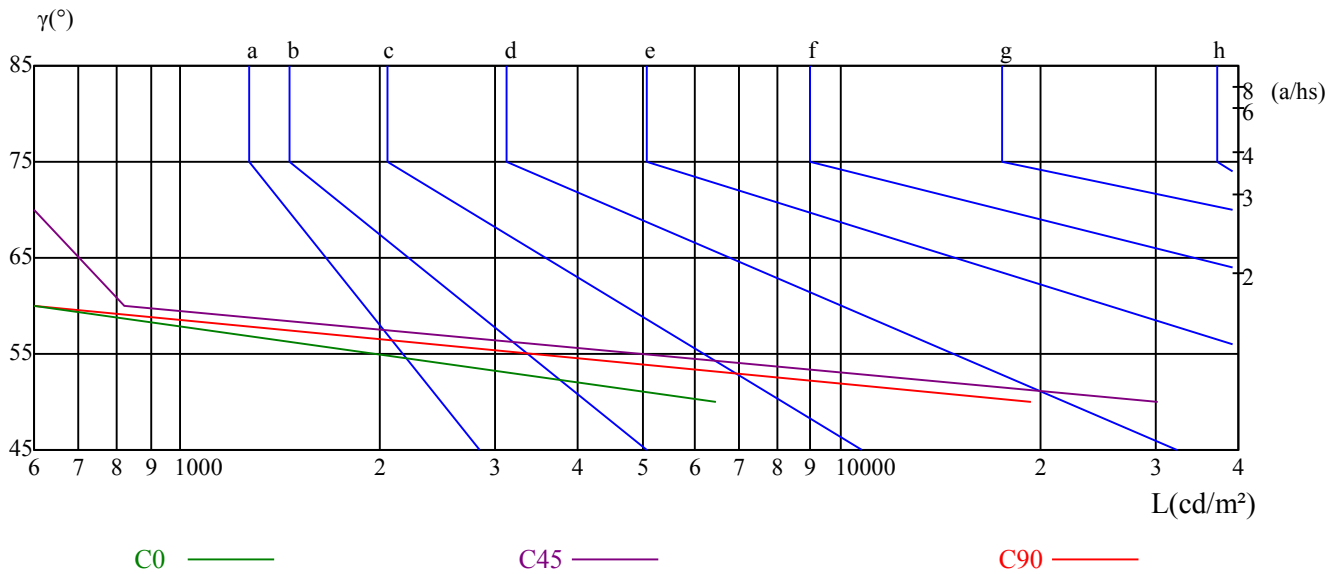
γ	45	50	55	60	65	70	75	80	85
C0	0	6481	0	404	0	153	0	86	0
C45	0	30252	0	821	0	308	0	121	0
C90	0	19412	0	589	0	242	0	108	0

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

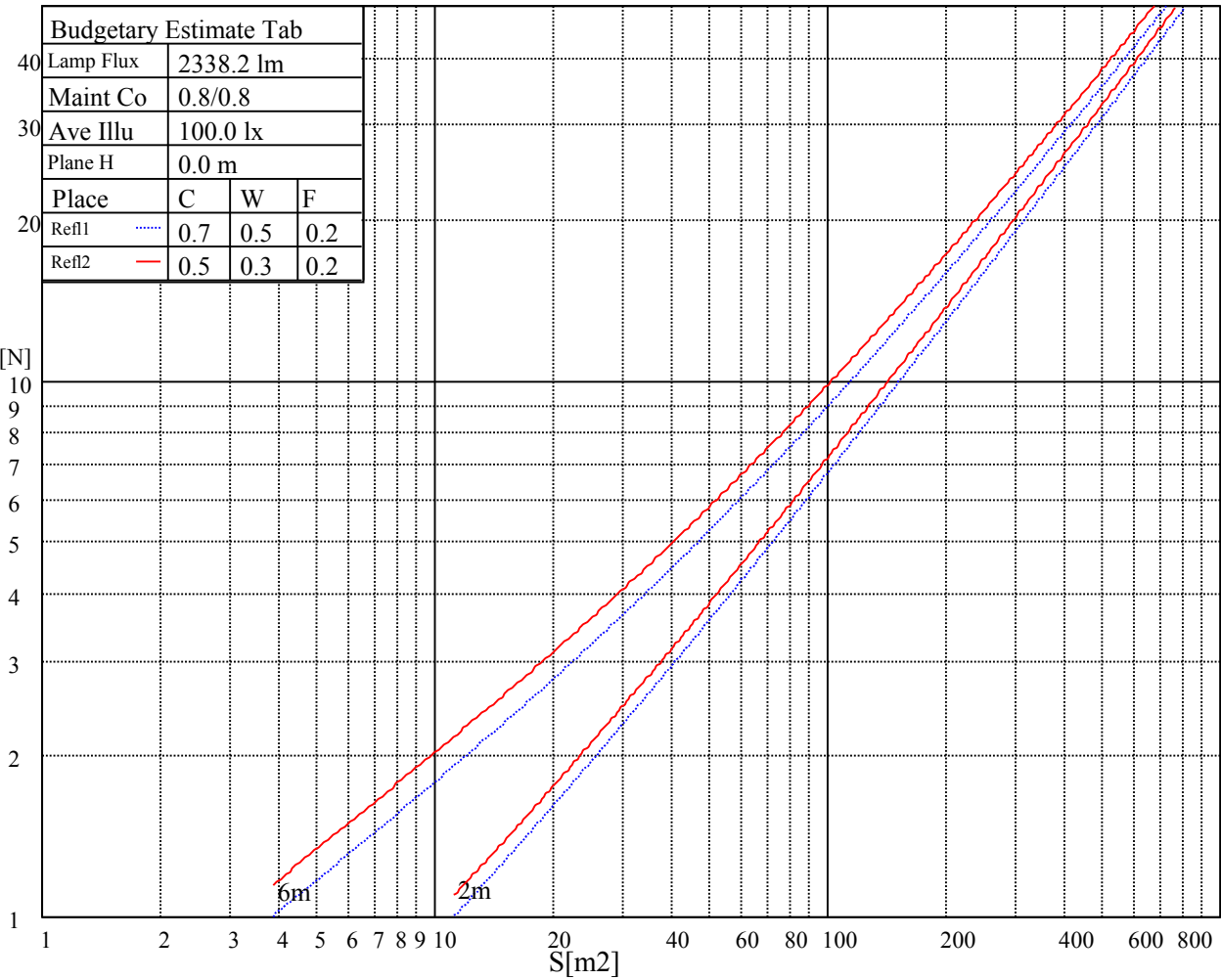
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

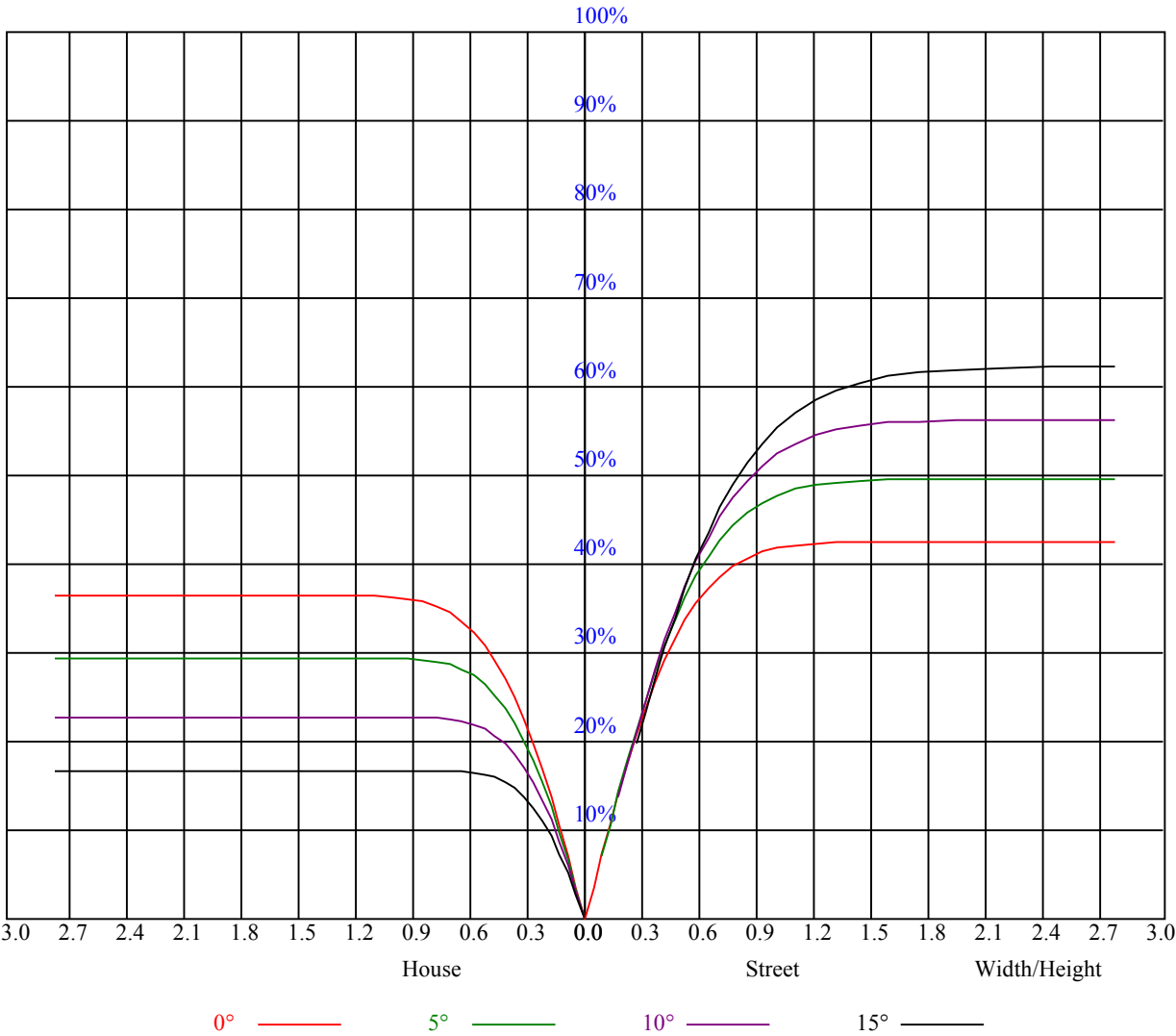


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	20.52	21.53	20.88	21.84	22.16	21.84	22.85	22.20	23.16	23.48
	3H	20.32	21.21	20.71	21.55	21.90	21.64	22.53	22.03	22.87	23.21
	4H	20.22	21.04	20.62	21.40	21.76	21.54	22.36	21.94	22.72	23.08
	6H	20.13	20.88	20.55	21.26	21.66	21.45	22.20	21.87	22.58	22.98
	8H	20.06	20.77	20.48	21.16	21.56	21.37	22.09	21.80	22.48	22.88
	12H	19.98	20.66	20.41	21.06	21.48	21.30	21.98	21.73	22.38	22.79
4H	2H	20.22	21.05	20.62	21.40	21.77	21.54	22.36	21.94	22.72	23.08
	3H	19.99	20.67	20.41	21.06	21.48	21.30	21.98	21.73	22.38	22.80
	4H	19.91	20.50	20.35	20.92	21.37	21.23	21.81	21.66	22.24	22.69
	6H	19.77	20.28	20.24	20.74	21.19	21.08	21.60	21.56	22.05	22.50
	8H	19.71	20.18	20.19	20.64	21.12	21.02	21.50	21.51	21.96	22.43
	12H	19.65	20.09	20.14	20.55	21.07	20.97	21.41	21.46	21.86	22.38
8H	4H	19.71	20.18	20.19	20.64	21.12	21.02	21.50	21.51	21.96	22.43
	6H	19.54	19.94	20.05	20.42	20.93	20.86	21.25	21.37	21.73	22.24
	8H	19.52	19.86	20.06	20.38	20.88	20.84	21.17	21.37	21.69	22.19
	12H	19.47	19.72	20.01	20.24	20.76	20.78	21.04	21.32	21.56	22.08
12H	4H	19.65	20.09	20.14	20.54	21.07	20.97	21.41	21.46	21.86	22.38
	6H	19.53	19.86	20.06	20.38	20.88	20.84	21.17	21.37	21.69	22.19
	8H	19.47	19.72	20.01	20.24	20.76	20.78	21.04	21.32	21.56	22.08
Variation with the observer position at spacings:											
S = 1.0H		3.3/-14.9					3.6/-20.7				
S = 1.5H		6.0/-26.6					6.3/-27.2				
S = 2.0H		8.1/-28.4					8.3/-28.9				
Standard tables:		BK0					BK0				
Uncorrected UGR		2.7					1.4				

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	0.94	0.94	0.94	0.92	0.92	0.92	0.88	0.88	0.88	0.84	0.84	0.84	0.81	0.81	0.81	0.79
1	0.88	0.86	0.84	0.86	0.84	0.82	0.83	0.81	0.80	0.80	0.79	0.78	0.77	0.76	0.75	0.74
2	0.81	0.78	0.75	0.80	0.77	0.75	0.77	0.75	0.73	0.75	0.73	0.71	0.73	0.71	0.70	0.69
3	0.76	0.72	0.68	0.75	0.71	0.68	0.72	0.69	0.67	0.71	0.68	0.66	0.69	0.67	0.65	0.64
4	0.71	0.66	0.63	0.70	0.65	0.62	0.68	0.64	0.62	0.66	0.63	0.61	0.65	0.62	0.60	0.59
5	0.66	0.61	0.58	0.65	0.61	0.57	0.64	0.60	0.57	0.62	0.59	0.56	0.61	0.58	0.56	0.55
6	0.62	0.57	0.53	0.61	0.56	0.53	0.60	0.56	0.53	0.59	0.55	0.52	0.58	0.54	0.52	0.51
7	0.58	0.53	0.50	0.57	0.53	0.49	0.56	0.52	0.49	0.55	0.52	0.49	0.54	0.51	0.49	0.47
8	0.54	0.49	0.46	0.54	0.49	0.46	0.53	0.49	0.46	0.52	0.48	0.46	0.51	0.48	0.45	0.44
9	0.51	0.46	0.43	0.51	0.46	0.43	0.50	0.46	0.43	0.49	0.45	0.43	0.49	0.45	0.43	0.42
10	0.48	0.44	0.40	0.48	0.43	0.40	0.47	0.43	0.40	0.47	0.43	0.40	0.46	0.43	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	2087.30	2077.50	2054.40	2017.60	1968.40	1906.60	1831.30	1746.50	1651.10
90.0	2087.30	2093.90	2089.00	2072.80	2044.60	2004.40	1951.50	1886.80	1810.10
180.0	2087.30	2084.90	2070.60	2043.80	2003.70	1950.90	1885.40	1809.00	1721.40
270.0	2087.30	2068.30	2035.10	1988.80	1927.80	1854.00	1767.30	1671.90	1568.40
360.0	2087.30	2077.50	2054.40	2017.60	1968.40	1906.60	1831.30	1746.50	1651.10
C/ γ (°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	1549.90	1443.80	1337.60	1229.90	1126.00	1024.30	923.18	824.91	723.19
90.0	1723.50	1627.90	1525.90	1419.70	1311.70	1204.70	1103.20	1002.40	899.80
180.0	1626.20	1523.60	1416.70	1309.10	1201.30	1100.10	999.27	899.14	800.38
270.0	1460.60	1351.90	1241.40	1136.20	1031.40	931.52	830.53	725.63	612.97
360.0	1549.90	1443.80	1337.60	1229.90	1126.00	1024.30	923.18	824.91	723.19
C/ γ (°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	611.51	496.90	390.93	298.27	205.69	132.83	76.64	39.59	18.04
90.0	799.76	691.97	575.69	463.28	358.54	266.01	185.35	118.58	67.79
180.0	692.45	578.53	466.36	360.67	264.64	183.27	116.11	66.54	34.30
270.0	502.35	398.86	300.75	213.01	146.13	79.38	40.54	18.40	6.72
360.0	611.51	496.90	390.93	298.27	205.69	132.83	76.64	39.59	18.04
C/ γ (°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	6.98	3.11	2.45	1.92	1.51	1.17	0.89	0.66	0.50
90.0	34.57	15.61	5.64	2.80	2.19	1.72	1.35	1.05	0.79
180.0	15.57	5.78	3.23	2.53	1.98	1.57	1.22	0.93	0.70
270.0	2.96	2.31	1.81	1.43	1.10	0.84	0.65	0.49	0.37
360.0	6.98	3.11	2.45	1.92	1.51	1.17	0.89	0.66	0.50
C/ γ (°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	0.35	0.25	0.20	0.17	0.14	0.13	0.13	0.14	0.16
90.0	0.60	0.45	0.31	0.21	0.18	0.14	0.13	0.13	0.13
180.0	0.53	0.39	0.30	0.26	0.21	0.18	0.16	0.14	0.12
270.0	0.29	0.25	0.21	0.18	0.16	0.15	0.14	0.14	0.16
360.0	0.35	0.25	0.20	0.17	0.14	0.13	0.13	0.14	0.16
C/ γ (°)	90.0								
0.0	0.18								
90.0	0.13								
180.0	0.12								
270.0	0.21								
360.0	0.18								