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Nata

Client: NT

LumCAT: 62-0116

Luminaire: 92.70.427.00

Report No: 20260528-B008

Ballast type: DC

Test No: 20260528-C008

LampCAT: CITIZEN CLU028

Lamp flux(lm): 1573.1

Number of Lamps: 1

Length(mm): 55

Phm Type: C

Voltage(V): 35.700

Current(A): 0.363

Power (W): 12.950

PF: 0.000

Width(mm): 55

Height(mm): 25

Photometric Results

Lumens(lm): 1342.98, Efficiency(%): 85.37% , Luminous Efficacy(lm/W): 103.71

Central intensity(cd): 1753.711, Maximum intensity(cd): 1757.067

Angle of maximum intensity: C=45.0 γ =1.0

Beam Angle(50%Imax): [C0/180]Total=57.8

[C90/270]Total=27.7

Field angle(10%Imax): [C0/180]Total=88.3

[C90/270]Total=78.9

Maximum s/h(1/2): C0_180=0.90 C90_270=0.47

Maximum s/h(1/4): C0_180=0.87 C90_270=0.50

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 85.40%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 88.110%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1743.800	0.000	0	0.00%	0.00%
1.0	1735.656	1.665	1.665	0.11%	0.12%
2.0	1731.214	4.976	6.641	0.32%	0.49%
3.0	1714.144	8.240	14.881	0.52%	1.11%
4.0	1694.584	11.410	26.291	0.73%	1.96%
5.0	1671.200	14.479	40.771	0.92%	3.04%
6.0	1637.496	17.388	58.159	1.11%	4.33%
7.0	1601.899	20.107	78.265	1.28%	5.83%
8.0	1559.643	22.627	100.892	1.44%	7.51%
9.0	1512.472	24.898	125.79	1.58%	9.37%
10.0	1459.512	26.895	152.685	1.71%	11.37%
11.0	1401.161	28.584	181.269	1.82%	13.50%
12.0	1339.868	29.963	211.233	1.90%	15.73%
13.0	1279.036	31.080	242.312	1.98%	18.04%
14.0	1215.231	31.926	274.239	2.03%	20.42%
15.0	1153.508	32.519	306.758	2.07%	22.84%
16.0	1090.159	32.876	339.634	2.09%	25.29%
17.0	1029.475	33.008	372.642	2.10%	27.75%
18.0	972.256	33.004	405.646	2.10%	30.20%
19.0	918.037	32.887	438.534	2.09%	32.65%
20.0	862.550	32.590	471.123	2.07%	35.08%
21.0	813.795	32.189	503.313	2.05%	37.48%
22.0	767.254	31.772	535.084	2.02%	39.84%
23.0	717.445	31.153	566.237	1.98%	42.16%
24.0	675.629	30.458	596.695	1.94%	44.43%
25.0	634.038	29.779	626.474	1.89%	46.65%
26.0	597.313	29.066	655.54	1.85%	48.81%
27.0	561.229	28.344	683.884	1.80%	50.92%
28.0	518.956	27.348	711.232	1.74%	52.96%
29.0	486.201	26.298	737.53	1.67%	54.92%
30.0	453.578	25.374	762.904	1.61%	56.81%
31.0	423.068	24.396	787.299	1.55%	58.62%
32.0	396.522	23.480	810.78	1.49%	60.37%
33.0	365.409	22.447	833.227	1.43%	62.04%
34.0	339.330	21.327	854.554	1.36%	63.63%
35.0	315.522	20.337	874.891	1.29%	65.15%
36.0	294.451	19.422	894.313	1.23%	66.59%
37.0	271.314	18.452	912.765	1.17%	67.97%

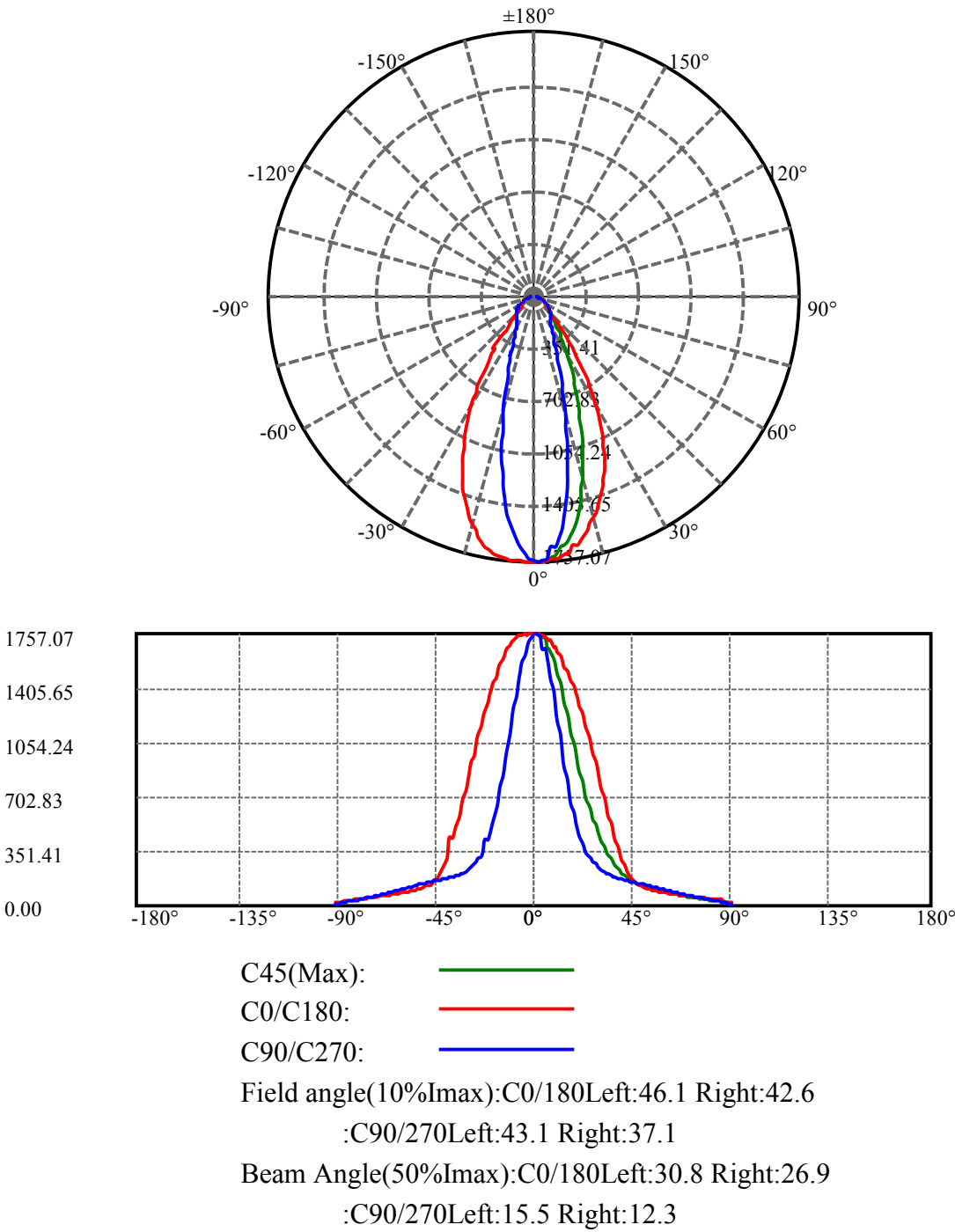
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	255.692	17.591	930.356	1.12%	69.28%
39.0	235.691	16.772	947.128	1.07%	70.52%
40.0	214.085	15.687	962.815	1.00%	71.69%
41.0	199.276	14.720	977.534	0.94%	72.79%
42.0	186.349	14.010	991.545	0.89%	73.83%
43.0	175.342	13.398	1004.943	0.85%	74.83%
44.0	164.665	12.833	1017.775	0.82%	75.78%
45.0	155.855	12.318	1030.093	0.78%	76.70%
46.0	148.901	11.918	1042.012	0.76%	77.59%
47.0	142.288	11.581	1053.593	0.74%	78.45%
48.0	136.242	11.260	1064.853	0.72%	79.29%
49.0	132.115	11.020	1075.873	0.70%	80.11%
50.0	127.720	10.833	1086.706	0.69%	80.92%
51.0	123.541	10.630	1097.337	0.68%	81.71%
52.0	119.419	10.426	1107.762	0.66%	82.49%
53.0	115.428	10.216	1117.978	0.65%	83.25%
54.0	111.505	10.002	1127.98	0.64%	83.99%
55.0	107.876	9.793	1137.773	0.62%	84.72%
56.0	104.242	9.585	1147.358	0.61%	85.43%
57.0	100.765	9.373	1156.732	0.60%	86.13%
58.0	97.488	9.168	1165.9	0.58%	86.81%
59.0	94.268	8.965	1174.864	0.57%	87.48%
60.0	91.069	8.756	1183.62	0.56%	88.13%
61.0	87.729	8.533	1192.153	0.54%	88.77%
62.0	84.891	8.318	1200.471	0.53%	89.39%
63.0	82.091	8.121	1208.592	0.52%	89.99%
64.0	79.139	7.911	1216.503	0.50%	90.58%
65.0	76.401	7.698	1224.201	0.49%	91.16%
66.0	73.580	7.483	1231.684	0.48%	91.71%
67.0	70.942	7.267	1238.951	0.46%	92.25%
68.0	68.252	7.051	1246.002	0.45%	92.78%
69.0	65.525	6.825	1252.827	0.43%	93.29%
70.0	62.840	6.593	1259.419	0.42%	93.78%
71.0	60.381	6.369	1265.788	0.40%	94.25%
72.0	57.926	6.152	1271.94	0.39%	94.71%
73.0	55.357	5.924	1277.864	0.38%	95.15%
74.0	52.897	5.691	1283.555	0.36%	95.57%
75.0	50.826	5.480	1289.035	0.35%	95.98%

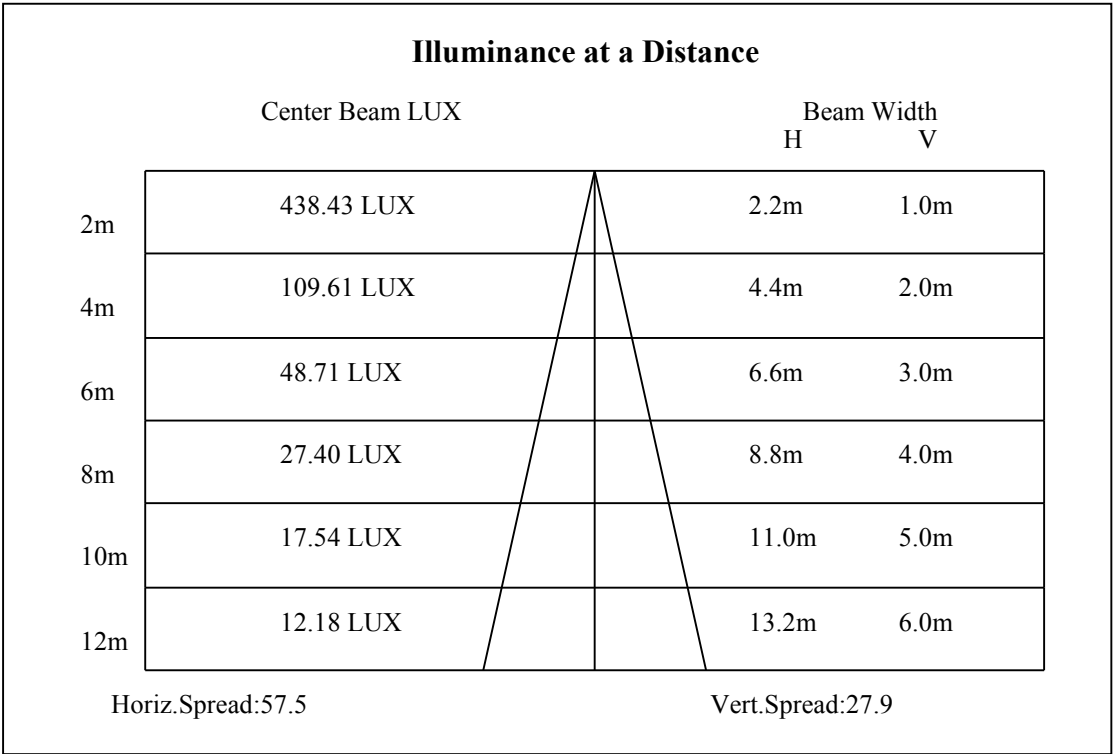
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	48.948	5.296	1294.332	0.34%	96.38%
77.0	46.950	5.113	1299.444	0.33%	96.76%
78.0	44.680	4.905	1304.349	0.31%	97.12%
79.0	42.168	4.666	1309.016	0.30%	97.47%
80.0	39.346	4.395	1313.41	0.28%	97.80%
81.0	36.635	4.109	1317.519	0.26%	98.10%
82.0	34.307	3.847	1321.366	0.24%	98.39%
83.0	32.534	3.634	1325	0.23%	98.66%
84.0	31.087	3.466	1328.466	0.22%	98.92%
85.0	28.517	3.253	1331.719	0.21%	99.16%
86.0	25.062	2.929	1334.648	0.19%	99.38%
87.0	21.128	2.528	1337.176	0.16%	99.57%
88.0	18.349	2.163	1339.338	0.14%	99.73%
89.0	16.404	1.905	1341.243	0.12%	99.87%
90.0	15.360	1.742	1342.985	0.11%	100.00%

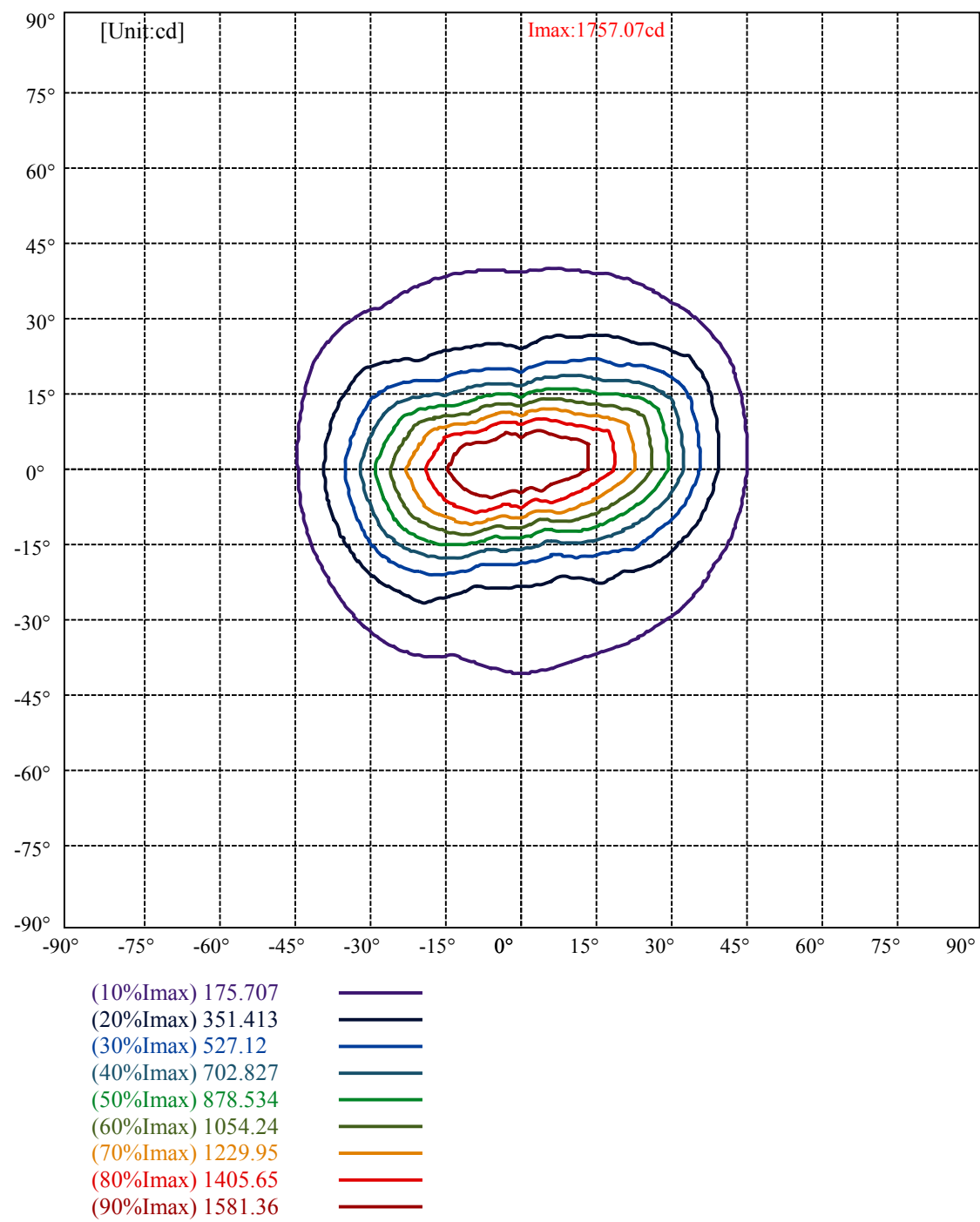
ZONAL LUMEN SUMMARY			
Zone	Lumens	%Lamp	%Fixt
0-30	762.90	48.50%	56.81%
0-40	962.81	61.21%	71.69%
0-60	1183.62	75.24%	88.13%
0-90	1341.24	85.26%	99.87%
0-120	1341.24	85.26%	99.87%
0-180	1342.98	85.37%	100.00%
60-90	157.62	10.02%	11.74%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-48.87	1074.39	68.30%	80.00%

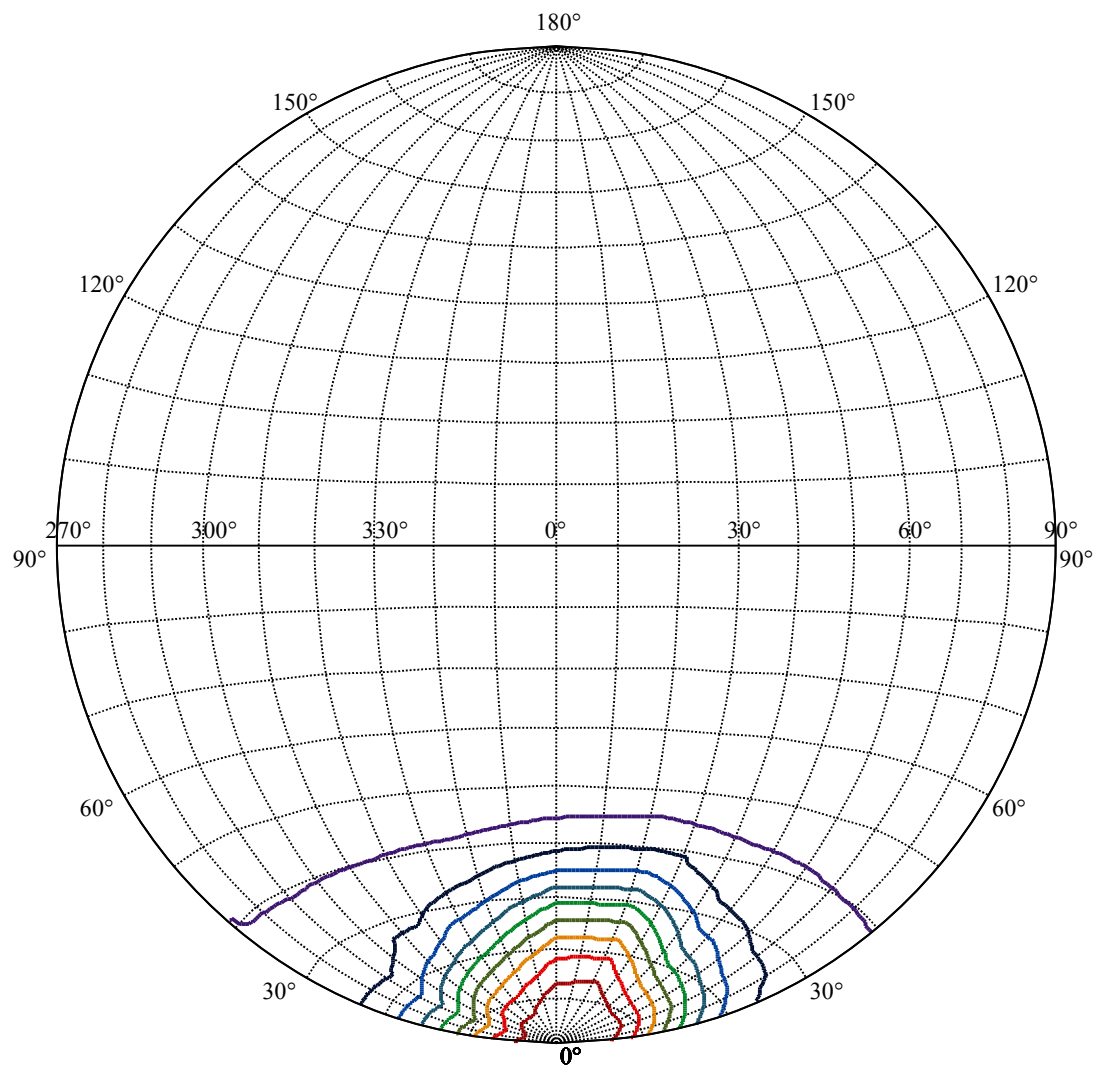
ZONAL LUMEN SUMMARY

0-10	152.69
10-20	318.44
20-30	291.78
30-40	199.91
40-50	123.89
50-60	96.91
60-70	75.80
70-80	53.99
80-90	27.83
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









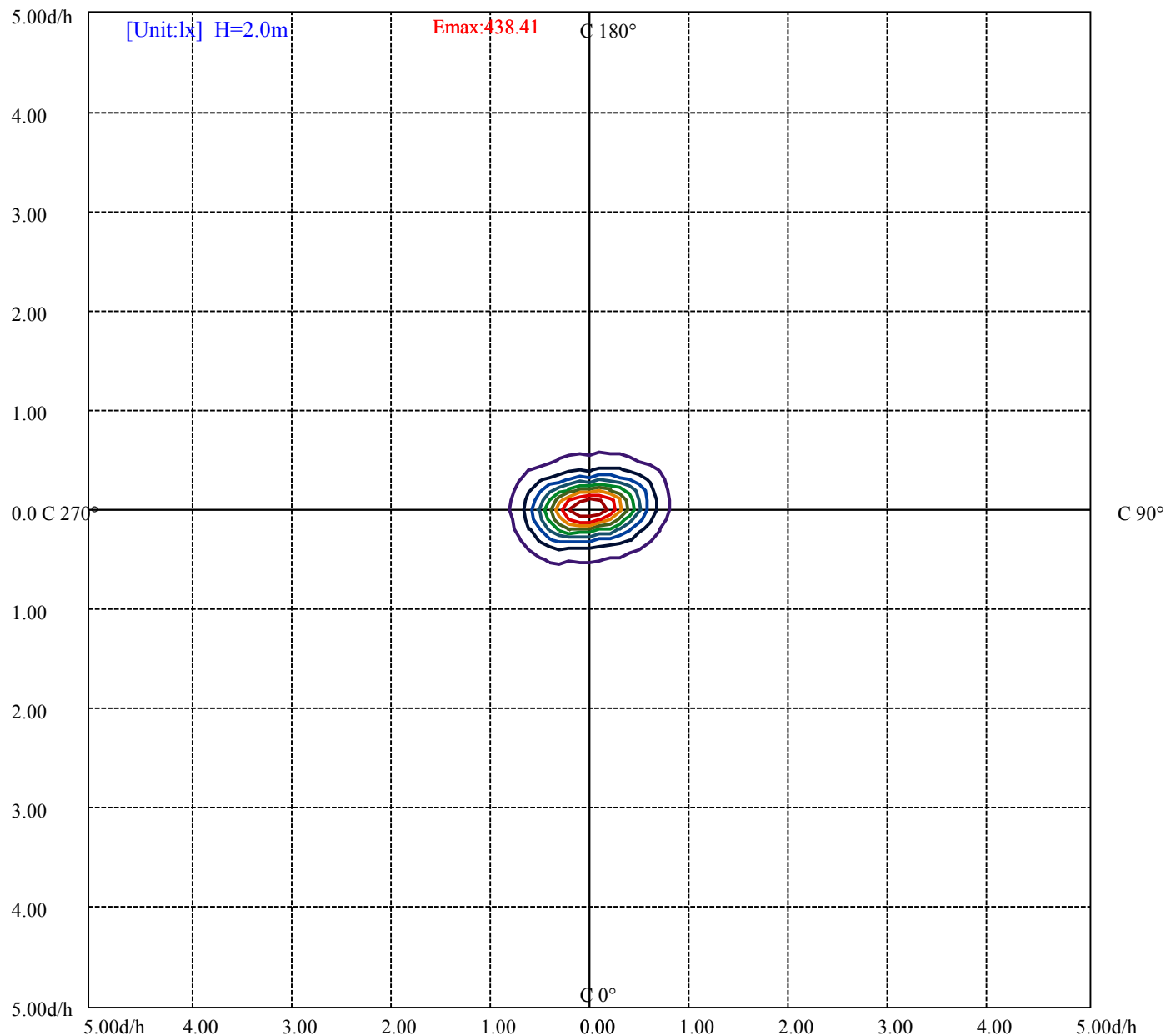
House

[Unit:cd]

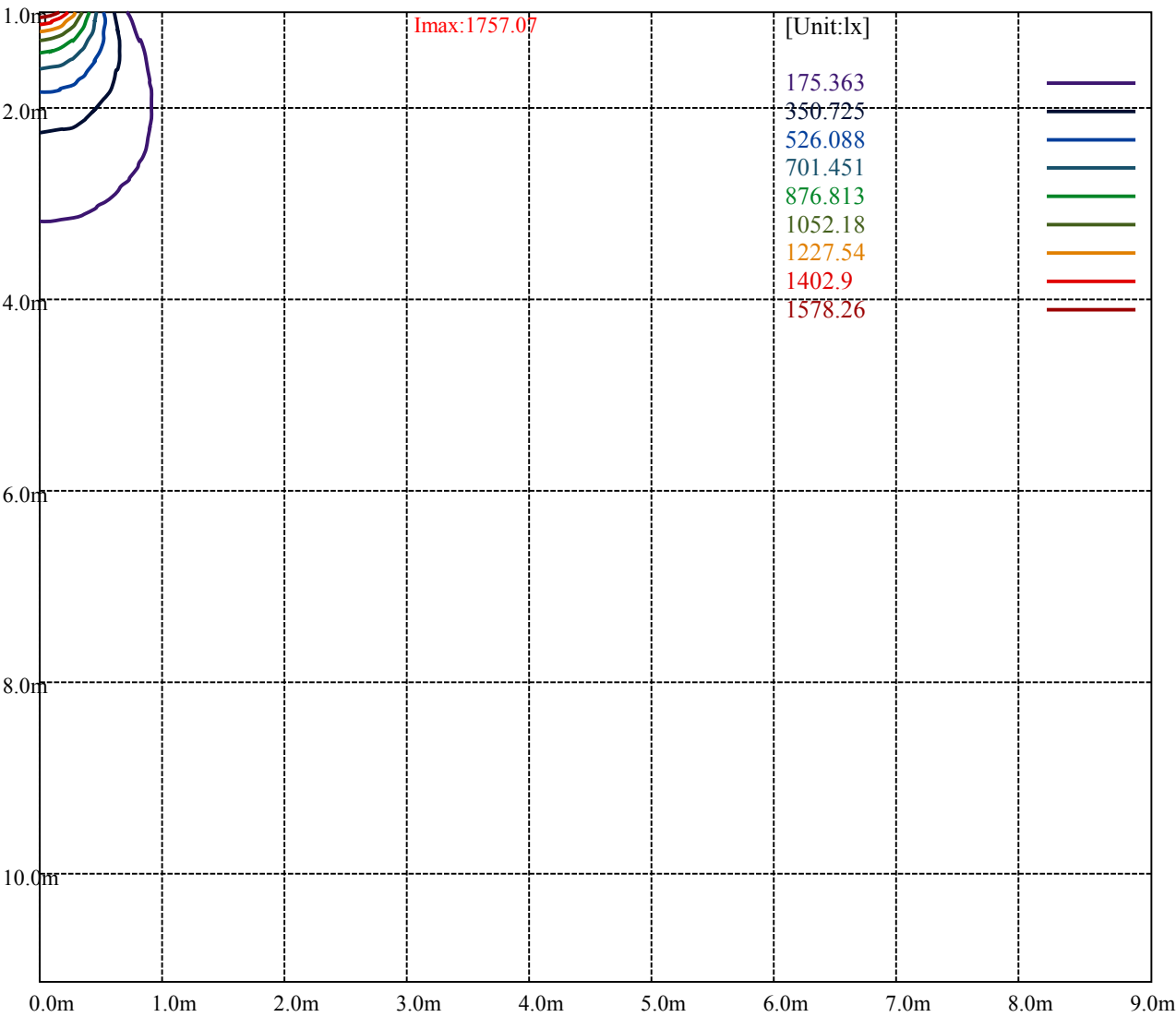
Road

Imax:1757.07

(10%Imax)	175.699	
(20%Imax)	351.398	
(30%Imax)	527.097	
(40%Imax)	702.796	
(50%Imax)	878.495	
(60%Imax)	1054.19	
(70%Imax)	1229.89	
(80%Imax)	1405.59	
(90%Imax)	1581.29	



(10%Emax)	43.8405	—
(20%Emax)	87.68125	—
(30%Emax)	131.5217	—
(40%Emax)	175.3622	—
(50%Emax)	219.203	—
(60%Emax)	263.0425	—
(70%Emax)	306.885	—
(80%Emax)	350.725	—
(90%Emax)	394.565	—



Luminance Table

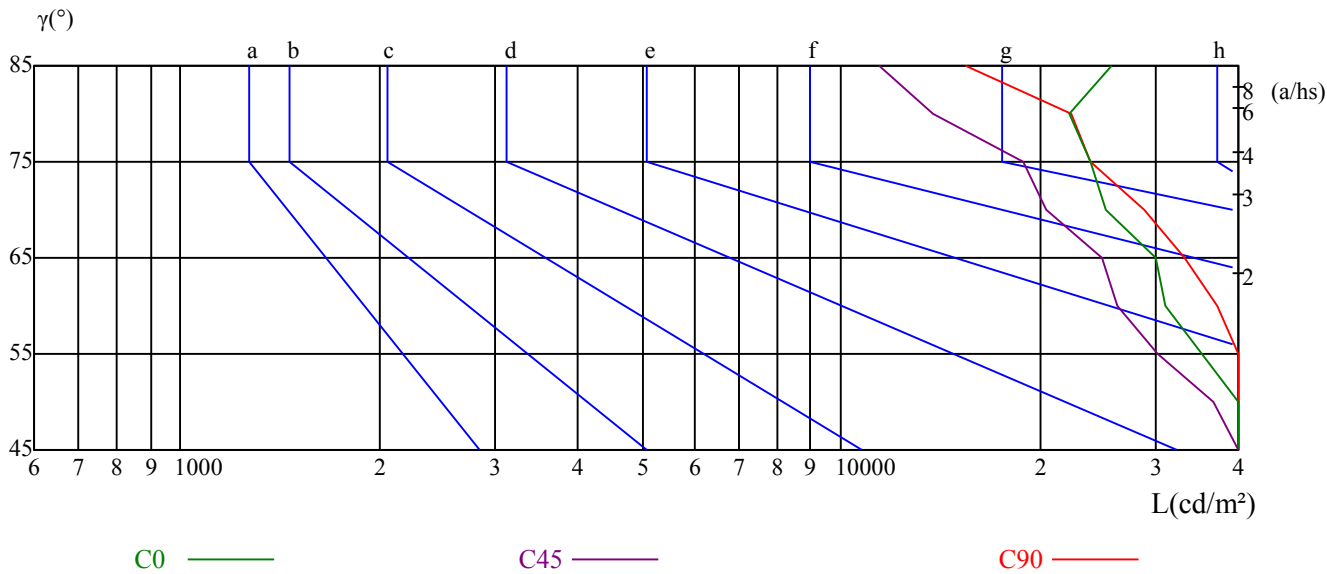
γ	45	50	55	60	65	70	75	80	85
C0	53937	41984	35188	31038	29912	25244	23847	22189	25684
C45	42980	36650	30255	26249	24834	20523	18917	13753	11438
C90	48543	44783	41053	37246	33235	28850	23847	22322	15410

L(Hor)(65)	L(Ver)(65)	L45(65)	L(Hor)(75)	L(Ver)(75)	L45(75)	L(Hor)(85)	L(Ver)(85)	L45(85)
55787	65632	59069	64301	64301	64301	159125	95475	95475

Glare Table

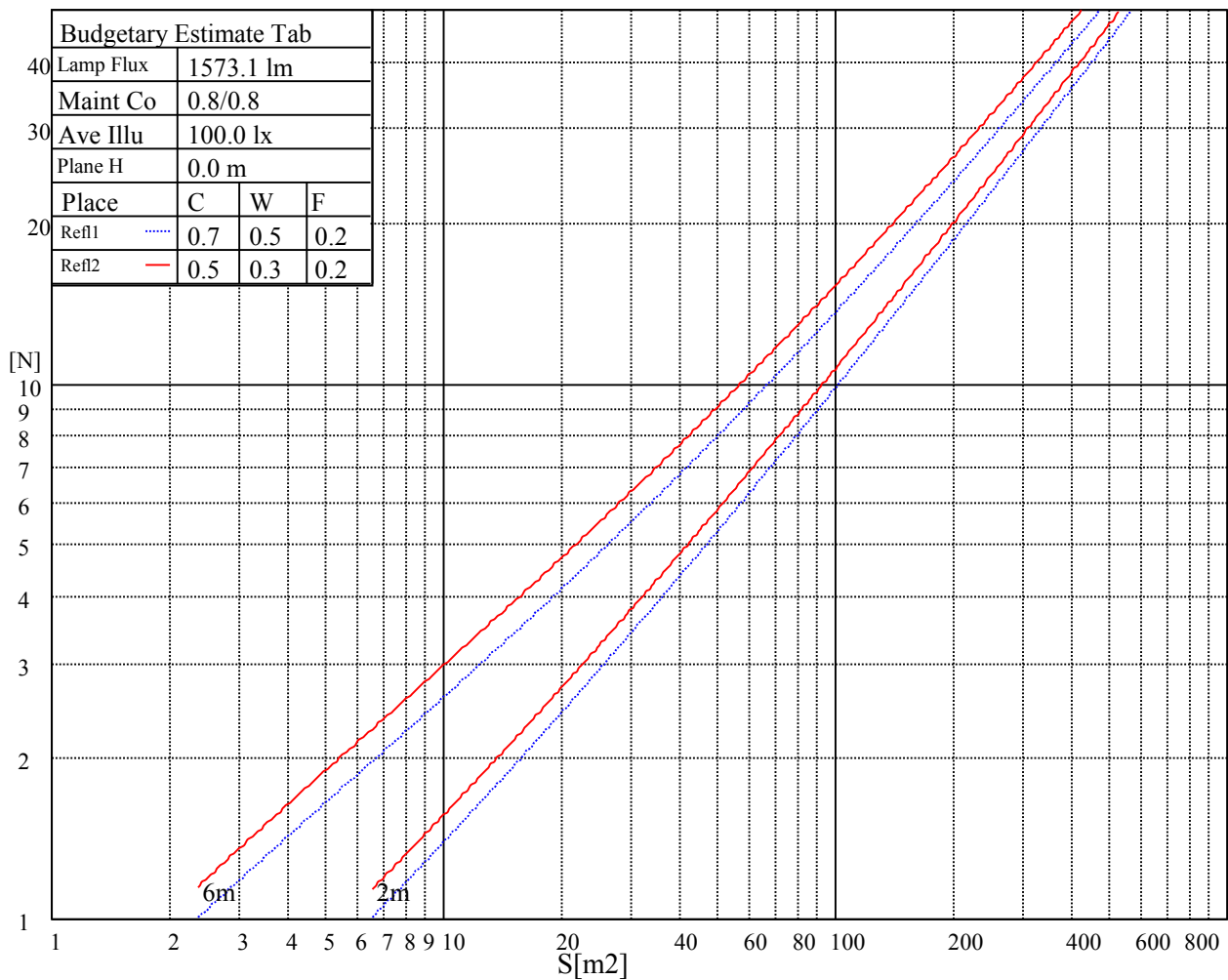
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

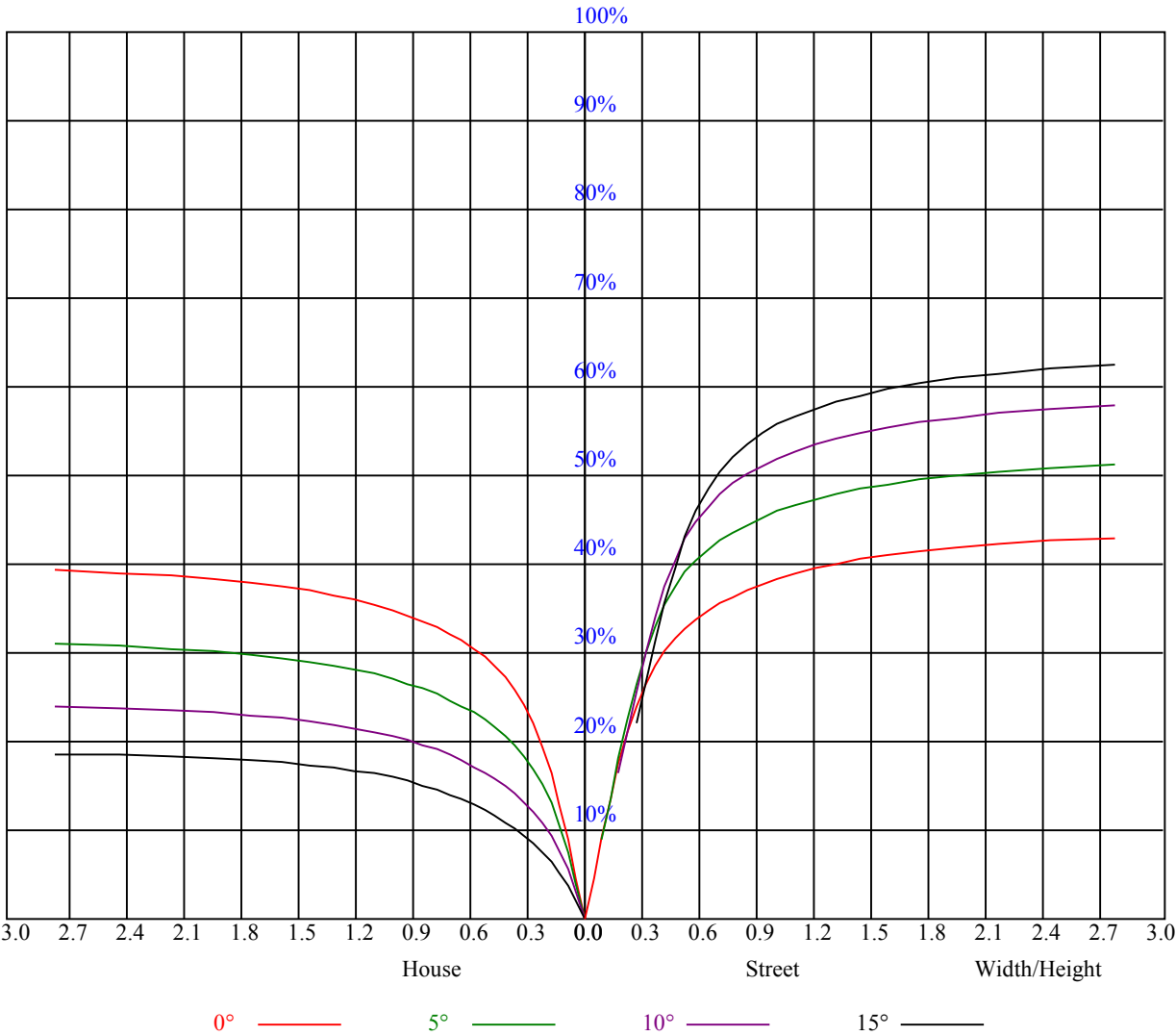


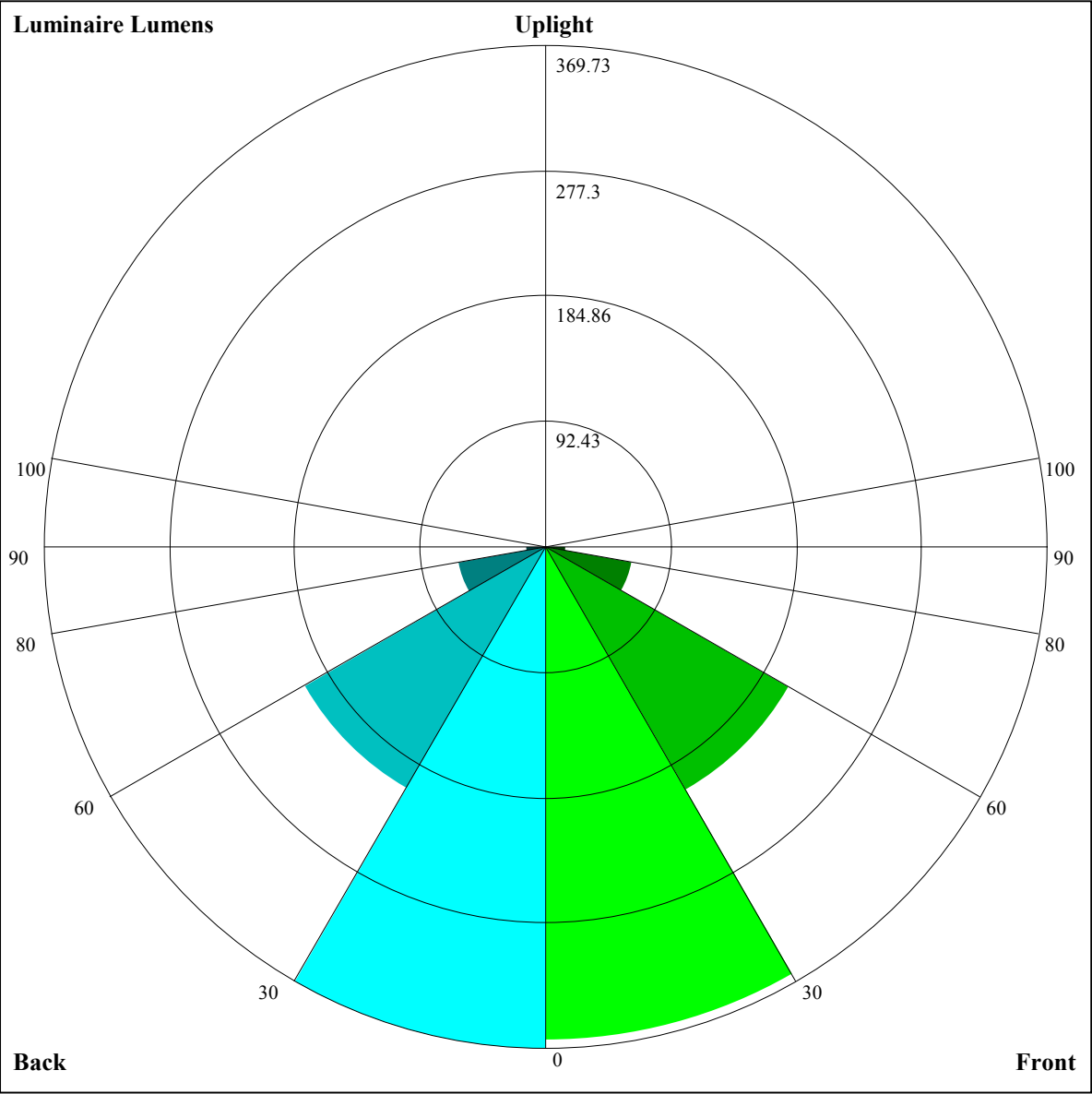
Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	23.43	24.74	23.79	25.05	25.37	22.67	23.98	23.04	24.29	24.61
	3H	24.50	25.67	24.88	26.01	26.35	24.24	25.42	24.62	25.75	26.10
	4H	25.06	26.16	25.46	26.51	26.88	24.88	25.98	25.28	26.33	26.70
	6H	25.67	26.68	26.08	27.06	27.45	25.45	26.47	25.86	26.84	27.23
	8H	25.92	26.90	26.33	27.28	27.68	25.64	26.62	26.05	27.00	27.40
	12H	26.22	27.16	26.64	27.55	27.96	25.79	26.72	26.21	27.11	27.53
4H	2H	23.75	24.85	24.15	25.21	25.57	23.12	24.22	23.52	24.58	24.94
	3H	25.03	25.97	25.45	26.36	26.77	24.86	25.80	25.28	26.19	26.60
	4H	25.79	26.62	26.23	27.04	27.48	25.70	26.53	26.13	26.94	27.39
	6H	26.52	27.26	26.99	27.70	28.15	26.37	27.11	26.84	27.55	28.00
	8H	26.89	27.57	27.36	28.02	28.49	26.65	27.34	27.13	27.79	28.26
	12H	27.32	27.96	27.80	28.40	28.91	26.89	27.53	27.37	27.97	28.48
8H	4H	26.00	26.68	26.47	27.13	27.60	25.91	26.59	26.38	27.04	27.51
	6H	26.87	27.45	27.37	27.92	28.42	26.73	27.30	27.22	27.77	28.28
	8H	27.40	27.90	27.92	28.42	28.91	27.15	27.65	27.67	28.17	28.66
	12H	27.99	28.41	28.52	28.92	29.43	27.50	27.91	28.03	28.42	28.93
12H	4H	26.02	26.66	26.50	27.10	27.61	25.93	26.57	26.42	27.02	27.53
	6H	26.98	27.48	27.50	27.99	28.48	26.84	27.33	27.36	27.85	28.34
	8H	27.52	27.93	28.05	28.44	28.95	27.27	27.68	27.80	28.19	28.71
Variation with the observer position at spacings:											
S = 1.0H		0.3/-0.7					1.5/-1.1				
S = 1.5H		0.8/-0.7					2.3/-1.1				
S = 2.0H		0.9/-0.7					3.3/-1.1				
Standard tables:		BKBF					BKBF				
Uncorrected UGR		11.5					12.0				

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	1.02	1.02	1.02	0.99	0.99	0.99	0.95	0.95	0.95	0.91	0.91	0.91	0.87	0.87	0.87	0.85
1	0.92	0.89	0.86	0.90	0.87	0.85	0.86	0.84	0.82	0.83	0.81	0.79	0.80	0.78	0.77	0.75
2	0.83	0.79	0.75	0.82	0.77	0.74	0.79	0.75	0.72	0.76	0.73	0.71	0.74	0.71	0.69	0.67
3	0.76	0.71	0.66	0.75	0.70	0.66	0.72	0.68	0.65	0.70	0.67	0.64	0.68	0.65	0.63	0.61
4	0.70	0.64	0.60	0.69	0.64	0.59	0.67	0.62	0.59	0.65	0.61	0.58	0.63	0.60	0.57	0.56
5	0.65	0.59	0.54	0.64	0.58	0.54	0.62	0.57	0.54	0.61	0.57	0.53	0.59	0.56	0.53	0.51
6	0.60	0.54	0.50	0.60	0.54	0.50	0.58	0.53	0.50	0.57	0.53	0.49	0.56	0.52	0.49	0.47
7	0.57	0.51	0.46	0.56	0.50	0.46	0.55	0.50	0.46	0.54	0.49	0.46	0.53	0.49	0.45	0.44
8	0.53	0.47	0.43	0.53	0.47	0.43	0.52	0.47	0.43	0.51	0.46	0.43	0.50	0.46	0.43	0.41
9	0.50	0.44	0.41	0.50	0.44	0.41	0.49	0.44	0.40	0.48	0.43	0.40	0.47	0.43	0.40	0.39
10	0.47	0.42	0.38	0.47	0.42	0.38	0.46	0.41	0.38	0.46	0.41	0.38	0.45	0.41	0.38	0.37





Luminaire Lumens:
FL=364.35,FM=207.32,FH=65.04,FVH=14.39
BL=369.73,BM=206.42,BH=66.01,BVH=15.01
UL=0,UH=0

BUG Rating:B1-U0-G1

Intensity data(cd)

Appendix Page: 18 Total:21

C/γ(°)	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0
0.0	1753.71	1754.55	1752.87	1747.84	1742.80	1740.29	1727.70	1717.63	1715.11
22.5	1747.00	1752.03	1753.71	1750.35	1748.68	1746.16	1739.45	1730.22	1714.28
45.0	1752.03	1757.07	1752.87	1744.48	1730.22	1719.31	1666.53	1660.74	1633.22
67.5	1731.90	1747.84	1757.07	1752.87	1738.61	1718.47	1696.66	1654.70	1603.52
90.0	1751.19	1757.07	1751.19	1733.57	1660.83	1660.83	1607.55	1543.19	1467.68
112.5	1729.38	1747.84	1754.55	1752.03	1738.61	1717.63	1687.43	1628.69	1566.60
135.0	1748.68	1752.87	1752.03	1738.61	1730.22	1670.31	1659.65	1626.76	1576.42
157.5	1737.77	1745.32	1748.68	1748.68	1746.16	1736.93	1729.38	1715.11	1705.88
180.0	1753.71	1753.71	1755.39	1748.68	1752.03	1749.52	1747.00	1741.96	1732.73
202.5	1747.00	1742.80	1735.25	1736.09	1727.70	1719.31	1672.57	1672.57	1669.81
225.0	1752.03	1738.61	1726.02	1706.72	1689.10	1667.29	1638.76	1603.52	1571.64
247.5	1731.90	1665.69	1665.69	1633.05	1597.39	1557.20	1491.51	1431.60	1351.72
270.0	1751.19	1733.57	1701.69	1661.41	1616.11	1566.60	1509.55	1443.26	1350.96
292.5	1729.38	1664.44	1653.78	1615.94	1573.15	1507.53	1442.76	1349.29	1272.85
315.0	1748.68	1733.57	1715.95	1685.75	1656.38	1621.98	1576.67	1529.68	1466.75
337.5	1735.25	1723.50	1722.67	1670.22	1665.36	1639.85	1606.79	1581.45	1555.11
360.0	1753.71	1754.55	1752.87	1747.84	1742.80	1740.29	1727.70	1717.63	1715.11
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1667.12	1664.85	1641.86	1615.10	1582.29	1543.28	1513.66	1486.47	1456.60
22.5	1702.53	1685.75	1666.45	1637.92	1611.91	1583.38	1550.66	1509.55	1475.14
45.0	1595.63	1554.27	1496.54	1444.52	1385.95	1308.84	1246.17	1185.59	1109.40
67.5	1544.79	1462.56	1389.56	1298.94	1221.75	1142.88	1062.33	963.32	886.97
90.0	1388.22	1282.33	1191.04	1098.91	985.39	898.13	815.65	726.12	657.99
112.5	1496.96	1420.61	1319.92	1232.66	1121.90	1033.80	947.38	845.85	772.85
135.0	1521.46	1443.34	1379.24	1291.73	1220.91	1147.66	1055.70	983.21	911.13
157.5	1690.78	1668.13	1632.89	1601.84	1567.44	1514.58	1469.27	1418.09	1352.64
180.0	1718.47	1707.56	1685.75	1659.74	1627.01	1595.97	1559.89	1525.49	1478.50
202.5	1649.58	1623.24	1596.89	1559.05	1527.75	1494.27	1447.20	1406.17	1362.46
225.0	1539.75	1501.16	1446.62	1402.99	1356.00	1302.30	1232.66	1176.44	1100.93
247.5	1281.32	1212.18	1123.33	1051.50	981.78	895.78	828.40	763.62	700.28
270.0	1273.77	1189.87	1103.44	997.72	917.17	839.98	765.30	680.56	618.47
292.5	1190.96	1089.09	1009.55	931.77	857.01	767.82	702.04	639.53	582.39
315.0	1413.89	1355.16	1294.75	1214.20	1144.56	1076.59	1010.31	930.60	867.67
337.5	1524.31	1492.09	1440.74	1399.29	1355.75	1298.44	1249.52	1201.95	1138.18
360.0	1667.12	1664.85	1641.86	1615.10	1582.29	1543.28	1513.66	1486.47	1456.60
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1413.89	1376.56	1339.30	1292.23	1248.85	1192.89	1143.72	1095.22	1036.32
22.5	1441.58	1404.66	1357.68	1315.72	1258.67	1215.04	1168.05	1108.48	1062.33
45.0	1049.66	989.00	915.66	858.69	804.07	739.46	691.80	645.49	605.97
67.5	814.81	749.36	674.68	618.47	567.29	509.39	468.28	432.20	422.97
90.0	598.83	532.97	487.41	446.55	408.03	368.51	340.91	320.44	302.56
112.5	704.05	641.12	573.16	525.33	480.02	439.75	430.52	389.41	340.41
135.0	847.53	770.92	712.78	659.25	608.57	551.93	511.24	473.56	431.36
157.5	1300.62	1249.44	1185.67	1130.29	1074.91	1017.86	948.22	896.20	843.34
180.0	1440.74	1400.47	1360.19	1306.49	1259.51	1210.84	1162.18	1097.57	1043.87
202.5	1322.35	1269.49	1225.02	1178.37	1114.60	1066.27	1015.34	966.01	900.14
225.0	1039.67	980.94	912.14	857.60	804.74	752.72	690.63	643.64	600.01
247.5	626.52	573.91	524.91	480.78	433.96	400.98	371.70	337.55	315.82
270.0	548.83	500.16	458.21	422.13	422.13	350.56	320.77	300.13	283.01
292.5	518.45	473.81	432.53	388.57	359.37	334.87	307.77	289.47	274.04
315.0	802.22	739.29	670.49	619.31	559.73	516.94	476.67	432.20	422.97
337.5	1086.33	1036.49	970.96	920.95	871.61	811.12	762.28	717.06	671.92
360.0	1413.89	1376.56	1339.30	1292.23	1248.85	1192.89	1143.72	1095.22	1036.32

Intensity data(cd)

Appendix Page: 19 Total:21

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	983.88	927.58	876.39	806.75	754.90	700.95	647.33	583.23	531.21
22.5	1012.82	948.22	892.84	837.46	783.76	719.15	669.65	618.47	568.12
45.0	558.56	519.71	483.21	448.98	409.46	381.52	349.63	326.90	305.67
67.5	385.04	337.97	312.13	294.59	279.83	266.23	249.70	236.70	225.37
90.0	284.61	269.76	254.91	239.89	229.31	218.49	210.52	203.39	195.16
112.5	319.18	296.69	280.41	262.88	250.63	237.79	224.53	216.14	208.42
135.0	402.08	375.31	346.53	327.48	301.98	282.93	266.48	251.80	238.12
157.5	791.31	728.38	683.91	637.77	584.07	542.95	494.29	459.89	425.49
180.0	976.75	922.21	865.99	794.67	740.97	687.27	617.63	563.09	511.07
202.5	847.78	781.08	726.87	675.94	613.60	565.36	519.04	473.56	421.46
225.0	560.57	511.07	474.15	440.59	425.49	425.49	347.29	315.23	294.51
247.5	292.49	276.13	261.37	248.19	233.51	223.52	214.80	206.91	198.86
270.0	267.49	251.55	239.72	229.65	221.59	212.62	206.07	200.20	194.41
292.5	256.33	243.33	231.83	221.93	212.28	205.23	199.61	194.33	188.79
315.0	422.97	338.14	314.48	294.01	276.55	257.25	244.33	232.67	221.76
337.5	617.80	576.18	534.48	496.47	451.16	417.60	385.63	346.78	319.93
360.0	983.88	927.58	876.39	806.75	754.90	700.95	647.33	583.23	531.21
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	481.62	422.46	378.33	337.89	291.15	258.43	230.15	204.14	182.24
22.5	506.03	461.56	427.16	427.16	320.02	287.88	253.06	226.46	203.81
45.0	280.75	262.37	244.67	227.89	210.52	198.69	185.18	174.19	162.11
67.5	215.13	203.89	195.92	187.95	179.47	174.02	169.49	163.62	159.00
90.0	189.46	183.67	179.05	174.19	170.66	167.81	164.62	160.85	156.65
112.5	200.03	193.82	188.03	182.58	177.54	172.34	168.99	164.96	160.26
135.0	223.02	212.11	202.72	193.57	183.33	175.95	170.33	161.94	155.90
157.5	425.49	352.82	324.71	297.53	272.11	246.51	228.56	208.51	191.05
180.0	468.28	433.04	433.04	321.44	285.28	242.74	215.22	197.51	174.02
202.5	381.18	343.09	306.59	266.82	238.54	214.46	188.62	174.36	160.43
225.0	276.05	253.06	236.70	222.10	205.07	193.07	181.15	170.24	160.93
247.5	191.64	185.52	178.05	173.27	169.74	165.21	161.01	157.16	152.12
270.0	190.21	187.70	183.59	179.81	176.71	172.43	168.90	165.63	162.44
292.5	185.43	182.08	178.47	174.19	169.82	166.47	163.45	159.67	155.14
315.0	209.18	199.78	190.63	180.98	174.52	167.22	161.35	156.32	150.95
337.5	287.71	264.05	243.41	223.69	200.87	185.18	171.50	159.92	147.59
360.0	481.62	422.46	378.33	337.89	291.15	258.43	230.15	204.14	182.24
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	164.87	151.20	138.61	131.73	130.89	124.60	114.20	109.33	105.39
22.5	182.41	166.80	155.73	145.07	132.15	125.44	121.58	118.06	111.59
45.0	154.47	150.19	140.04	132.07	126.87	123.17	121.91	117.05	111.59
67.5	153.72	150.02	146.92	142.05	136.26	132.57	129.55	127.28	122.59
90.0	153.46	149.52	146.42	143.73	140.46	137.94	134.50	129.80	127.54
112.5	156.65	153.13	148.85	145.58	141.46	138.44	135.09	132.49	130.98
135.0	149.18	144.90	139.62	134.17	130.14	128.29	125.19	119.15	116.04
157.5	174.61	162.78	152.12	142.39	137.52	128.29	122.50	118.47	115.62
180.0	158.25	145.41	135.26	129.30	129.80	121.58	114.03	108.49	105.05
202.5	147.51	139.79	131.65	123.01	118.81	115.87	111.43	105.22	101.11
225.0	150.86	144.49	140.46	130.89	125.61	120.32	118.22	117.97	110.76
247.5	149.27	145.66	140.71	135.84	132.15	128.71	126.61	121.16	117.05
270.0	158.58	155.64	153.04	150.53	146.92	144.07	141.46	136.43	133.24
292.5	151.79	148.18	144.82	141.05	137.61	135.00	130.64	126.95	124.35
315.0	145.41	141.05	136.93	132.74	131.73	127.45	121.33	117.89	113.86
337.5	142.64	133.66	125.44	119.73	115.45	111.76	108.41	104.97	100.10
360.0	164.87	151.20	138.61	131.73	130.89	124.60	114.20	109.33	105.39

Intensity data(cd)

Appendix Page: 20 Total:21

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	100.94	97.92	94.31	91.46	89.02	85.67	83.57	81.05	78.70
22.5	106.90	103.04	98.59	95.48	92.04	89.44	86.84	84.33	81.30
45.0	107.57	103.79	99.51	96.66	93.47	90.37	87.60	83.91	81.14
67.5	118.98	115.29	112.01	108.07	105.55	101.69	98.51	94.98	90.87
90.0	123.17	119.73	115.20	111.93	108.49	104.38	100.35	96.99	94.23
112.5	125.19	122.00	120.57	115.29	111.01	107.57	104.13	100.27	96.66
135.0	113.52	111.34	106.90	103.20	99.85	95.65	92.38	88.60	85.33
157.5	111.59	108.41	105.22	100.60	96.91	93.97	90.95	87.43	84.49
180.0	100.18	96.83	93.97	91.04	88.02	85.25	83.15	79.88	77.61
202.5	98.00	94.56	90.79	88.52	85.50	83.40	81.14	78.03	75.93
225.0	106.90	102.20	99.18	95.23	92.21	89.61	86.67	83.32	80.80
247.5	113.19	109.08	106.14	102.78	99.93	96.49	92.04	88.94	86.76
270.0	129.30	125.27	121.08	117.30	112.85	108.91	104.88	100.27	97.25
292.5	120.40	115.96	110.92	107.40	104.29	100.85	96.07	92.72	89.95
315.0	111.76	106.98	103.20	99.85	95.65	92.63	89.44	86.34	82.65
337.5	96.49	93.64	90.28	87.43	85.00	82.40	79.37	76.61	74.59
360.0	100.94	97.92	94.31	91.46	89.02	85.67	83.57	81.05	78.70
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	76.52	74.00	72.07	70.15	67.80	65.87	63.85	61.75	60.16
22.5	78.62	76.35	74.17	71.32	69.14	66.96	64.78	62.43	60.24
45.0	78.62	75.35	72.83	69.81	67.46	65.03	62.01	59.82	57.64
67.5	88.27	85.00	81.98	78.45	75.43	72.58	69.81	66.29	63.60
90.0	91.12	88.10	84.07	80.97	77.95	74.84	70.90	67.71	64.78
112.5	92.88	90.03	86.93	83.15	79.96	77.11	74.09	70.15	67.04
135.0	82.40	79.96	76.44	74.17	71.57	69.05	65.87	63.43	60.92
157.5	81.39	77.95	75.60	73.08	70.23	67.96	65.78	62.93	61.00
180.0	74.93	72.75	70.82	68.38	66.62	64.86	63.18	60.92	59.32
202.5	73.59	70.82	68.72	66.62	64.69	62.76	60.33	58.48	56.47
225.0	78.45	75.35	72.91	70.40	67.63	65.19	63.01	60.33	58.23
247.5	83.07	79.37	76.27	73.33	70.56	66.96	64.19	61.59	58.57
270.0	93.97	90.87	87.85	83.57	80.30	75.93	72.58	69.31	65.53
292.5	87.18	83.32	80.13	77.11	73.67	69.47	66.29	62.85	59.66
315.0	80.05	77.61	74.42	72.07	69.47	66.96	63.52	61.17	58.65
337.5	72.41	69.39	67.21	64.69	62.59	60.50	58.23	56.30	54.29
360.0	76.52	74.00	72.07	70.15	67.80	65.87	63.85	61.75	60.16
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	58.31	56.22	54.29	52.11	51.01	50.85	48.67	45.64	41.70
22.5	57.81	55.80	53.78	51.52	49.67	47.83	45.39	43.55	41.70
45.0	55.38	52.61	50.51	48.50	46.48	43.97	41.87	39.69	37.00
67.5	61.17	57.98	55.63	53.20	50.18	47.74	44.64	42.20	39.77
90.0	61.84	58.15	55.55	52.69	49.67	48.25	45.64	41.62	38.43
112.5	64.02	61.33	57.81	55.21	52.94	52.02	54.87	52.27	48.75
135.0	58.48	55.46	53.11	50.18	47.83	45.64	42.96	40.69	38.34
157.5	58.90	56.97	54.45	52.44	50.43	48.41	45.90	43.97	41.87
180.0	57.48	55.63	53.03	50.93	48.75	46.32	44.39	42.71	40.44
202.5	53.95	52.19	50.18	47.99	46.57	45.06	42.96	41.03	39.18
225.0	56.05	53.78	51.10	49.92	53.03	54.20	52.19	48.58	41.62
247.5	56.05	53.70	50.60	48.25	45.98	43.04	40.69	38.43	36.16
270.0	62.51	59.49	55.55	52.69	49.76	46.74	43.38	40.69	38.09
292.5	56.97	53.36	50.60	47.91	45.31	42.20	39.77	37.42	35.07
315.0	55.71	53.28	50.18	47.83	45.64	43.38	40.53	38.26	36.00
337.5	52.19	49.76	50.01	51.85	49.92	45.56	41.03	37.93	35.41
360.0	58.31	56.22	54.29	52.11	51.01	50.85	48.67	45.64	41.70

Intensity data(cd)

Appendix Page: 21 Total:21

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	40.02	38.93	39.44	39.27	39.18	34.15	26.60	22.82	19.47
22.5	39.60	38.09	37.25	37.17	37.00	36.25	29.37	24.84	21.73
45.0	34.99	32.56	30.29	28.53	27.35	23.24	19.89	17.37	14.68
67.5	37.34	34.40	31.80	29.45	27.35	25.84	20.31	17.62	14.60
90.0	35.41	33.06	30.37	28.19	26.26	21.56	18.21	15.10	12.84
112.5	43.04	36.67	34.40	32.14	29.53	27.02	20.72	17.96	15.10
135.0	35.66	33.65	31.30	28.44	27.52	23.75	19.89	16.78	14.35
157.5	39.44	37.51	34.99	33.06	30.79	30.46	26.85	23.33	20.81
180.0	38.60	36.75	36.25	37.67	37.93	29.95	26.68	24.42	23.24
202.5	37.25	35.91	35.83	36.92	30.63	27.60	25.17	22.91	22.65
225.0	36.83	35.16	32.56	31.21	27.44	23.16	20.39	17.54	15.52
247.5	33.65	30.79	28.95	25.68	21.65	18.96	16.11	13.51	12.67
270.0	34.99	32.64	29.62	28.61	25.59	20.89	17.87	15.02	13.26
292.5	32.22	29.70	28.19	25.68	21.48	18.04	15.19	13.26	12.42
315.0	33.31	31.30	28.95	27.10	23.91	19.89	17.12	14.35	13.34
337.5	33.81	31.80	30.37	28.28	22.65	20.22	17.70	16.78	15.77
360.0	40.02	38.93	39.44	39.27	39.18	34.15	26.60	22.82	19.47

C/γ(°)	90.0
0.0	18.96
22.5	19.47
45.0	14.18
67.5	12.50
90.0	11.83
112.5	12.75
135.0	12.75
157.5	18.54
180.0	23.07
202.5	22.49
225.0	14.85
247.5	12.08
270.0	12.42
292.5	12.00
315.0	12.59
337.5	15.27
360.0	18.96