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ASD Lighting Corp

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LumCAT: 100W

Luminaire: ASD-LWL1-100N50

Report No:

Voltage(V): 119.8800

Test No: 01

Current(A): 0.8296

LampCAT:

Power (W): 99.1000

Lamp flux(lm): -1.0

PF: 0.9954

Number of Lamps: 1

Ballast type:

Length(mm): 0

Width(mm): 0

Phm Type: C

Height(mm): 0

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Photometric Results

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Lumens(lm): 11942.27

Efficiency(%): 0.00%

Lumens(lm)/Power(W): 120.51

Central intensity(cd): 1527.889

Maximum intensity(cd): 1720.633

Angle of maximum intensity: C=45.0  $\gamma$ =36.0

Beam Angle(50%Imax): [C0/180]Total=195.2

[C90/270]Total=211.6

Field angle(10%Imax): [C0/180]Total=312.3

[C90/270]Total=308.5

Maximum s/h(1/2): C0\_180=1.62 C90\_270=1.60

Maximum s/h(1/4): C0\_180=1.71 C90\_270=1.71

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 0.00%

Up flux rate of LUM(%): 32.32%

Down flux rate of LUM(%): 67.68%

CIE Type : Semidirect lighting

Output flux ratio in  $\pi$  solid angle : 39.522%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	1527.889	.000	.000	.000%	.000%
1.0	1530.004	1.463	1.463	.000%	.000%
2.0	1535.262	4.400	5.863	.000%	.000%
3.0	1534.876	7.343	13.205	.000%	.000%
4.0	1526.840	10.249	23.454	.000%	.000%
5.0	1509.816	13.064	36.518	.000%	.000%
6.0	1488.650	15.758	52.275	.000%	.000%
7.0	1471.632	18.374	70.650	.000%	.000%
8.0	1461.704	20.993	91.643	.000%	.000%
9.0	1461.432	23.690	115.334	.000%	.000%
10.0	1465.950	26.492	141.825	.000%	.000%
11.0	1464.477	29.281	171.106	.000%	.000%
12.0	1452.956	31.892	202.998	.000%	.000%
13.0	1433.295	34.253	237.250	.000%	.000%
14.0	1418.985	36.509	273.759	.000%	.000%
15.0	1417.577	38.942	312.701	.000%	.000%
16.0	1421.530	41.601	354.302	.000%	.000%
17.0	1419.681	44.245	398.547	.000%	.000%
18.0	1415.690	46.749	445.296	.000%	.000%
19.0	1412.999	49.213	494.510	.000%	.000%
20.0	1416.125	51.781	546.291	.000%	.000%
21.0	1426.015	54.575	600.865	.000%	.000%
22.0	1437.118	57.536	658.401	.000%	.000%
23.0	1446.817	60.513	718.914	.000%	.000%
24.0	1460.133	63.556	782.470	.000%	.000%
25.0	1475.460	66.749	849.219	.000%	.000%
26.0	1497.045	70.166	919.386	.000%	.000%
27.0	1517.059	73.741	993.126	.000%	.000%
28.0	1534.207	77.252	1070.378	.000%	.000%
29.0	1545.484	80.573	1150.951	.000%	.000%
30.0	1560.484	83.861	1234.812	.000%	.000%
31.0	1582.341	87.460	1322.272	.000%	.000%
32.0	1603.611	91.274	1413.546	.000%	.000%
33.0	1622.951	95.056	1508.601	.000%	.000%
34.0	1636.250	98.633	1607.234	.000%	.000%
35.0	1643.780	101.866	1709.100	.000%	.000%
36.0	1647.042	104.780	1813.880	.000%	.000%
37.0	1647.358	107.445	1921.325	.000%	.000%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
38.0	1643.845	109.856	2031.181	.000%	.000%
39.0	1637.500	112.001	2143.183	.000%	.000%
40.0	1627.018	113.855	2257.037	.000%	.000%
41.0	1612.071	115.342	2372.380	.000%	.000%
42.0	1594.412	116.497	2488.877	.000%	.000%
43.0	1575.953	117.440	2606.316	.000%	.000%
44.0	1561.512	118.417	2724.733	.000%	.000%
45.0	1548.604	119.525	2844.258	.000%	.000%
46.0	1532.772	120.506	2964.764	.000%	.000%
47.0	1518.374	121.352	3086.116	.000%	.000%
48.0	1504.499	122.200	3208.317	.000%	.000%
49.0	1493.581	123.118	3331.435	.000%	.000%
50.0	1480.473	123.998	3455.433	.000%	.000%
51.0	1467.456	124.723	3580.155	.000%	.000%
52.0	1454.690	125.392	3705.547	.000%	.000%
53.0	1442.527	126.029	3831.576	.000%	.000%
54.0	1430.175	126.617	3958.192	.000%	.000%
55.0	1411.721	126.857	4085.050	.000%	.000%
56.0	1394.502	126.805	4211.855	.000%	.000%
57.0	1380.556	126.882	4338.737	.000%	.000%
58.0	1367.632	127.086	4465.823	.000%	.000%
59.0	1352.468	127.166	4592.990	.000%	.000%
60.0	1333.389	126.889	4719.879	.000%	.000%
61.0	1315.627	126.416	4846.295	.000%	.000%
62.0	1296.901	125.887	4972.183	.000%	.000%
63.0	1274.783	125.074	5097.257	.000%	.000%
64.0	1254.345	124.103	5221.360	.000%	.000%
65.0	1235.039	123.198	5344.558	.000%	.000%
66.0	1215.231	122.253	5466.811	.000%	.000%
67.0	1195.071	121.197	5588.007	.000%	.000%
68.0	1179.254	120.276	5708.283	.000%	.000%
69.0	1165.444	119.615	5827.898	.000%	.000%
70.0	1149.410	118.887	5946.785	.000%	.000%
71.0	1132.545	117.944	6064.729	.000%	.000%
72.0	1111.873	116.703	6181.432	.000%	.000%
73.0	1087.846	115.029	6296.461	.000%	.000%
74.0	1064.386	113.148	6409.609	.000%	.000%
75.0	1041.577	111.271	6520.880	.000%	.000%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	1022.020	109.544	6630.424	.000%	.000%
77.0	1006.030	108.126	6738.551	.000%	.000%
78.0	994.014	107.064	6845.615	.000%	.000%
79.0	985.809	106.375	6951.990	.000%	.000%
80.0	979.780	105.969	7057.959	.000%	.000%
81.0	973.337	105.622	7163.581	.000%	.000%
82.0	967.399	105.243	7268.824	.000%	.000%
83.0	959.461	104.747	7373.570	.000%	.000%
84.0	948.826	103.960	7477.530	.000%	.000%
85.0	938.556	103.010	7580.540	.000%	.000%
86.0	927.486	102.001	7682.540	.000%	.000%
87.0	917.330	100.963	7783.503	.000%	.000%
88.0	909.179	100.053	7883.556	.000%	.000%
89.0	905.384	99.459	7983.015	.000%	.000%
90.0	903.514	99.179	8082.194	.000%	.000%
91.0	902.785	99.036	8181.230	.000%	.000%
92.0	903.079	98.982	8280.213	.000%	.000%
93.0	902.698	98.917	8379.130	.000%	.000%
94.0	901.160	98.722	8477.852	.000%	.000%
95.0	898.202	98.356	8576.207	.000%	.000%
96.0	894.005	97.815	8674.022	.000%	.000%
97.0	888.236	97.093	8771.115	.000%	.000%
98.0	881.646	96.213	8867.328	.000%	.000%
99.0	874.708	95.244	8962.572	.000%	.000%
100.0	868.048	94.246	9056.817	.000%	.000%
101.0	861.480	93.243	9150.061	.000%	.000%
102.0	854.792	92.215	9242.275	.000%	.000%
103.0	848.475	91.177	9333.452	.000%	.000%
104.0	841.287	90.090	9423.543	.000%	.000%
105.0	833.735	88.917	9512.460	.000%	.000%
106.0	826.009	87.695	9600.154	.000%	.000%
107.0	816.603	86.356	9686.511	.000%	.000%
108.0	807.370	84.922	9771.433	.000%	.000%
109.0	797.410	83.444	9854.876	.000%	.000%
110.0	787.525	81.918	9936.794	.000%	.000%
111.0	777.113	80.357	10017.150	.000%	.000%
112.0	766.989	78.773	10095.920	.000%	.000%
113.0	756.925	77.197	10173.120	.000%	.000%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
114.0	747.492	75.646	10248.770	.000%	.000%
115.0	737.798	74.106	10322.870	.000%	.000%
116.0	728.772	72.579	10395.450	.000%	.000%
117.0	720.078	71.095	10466.550	.000%	.000%
118.0	710.727	69.587	10536.130	.000%	.000%
119.0	700.614	68.007	10604.140	.000%	.000%
120.0	689.022	66.316	10670.460	.000%	.000%
121.0	677.354	64.552	10735.010	.000%	.000%
122.0	665.268	62.768	10797.780	.000%	.000%
123.0	653.746	60.996	10858.770	.000%	.000%
124.0	642.579	59.271	10918.040	.000%	.000%
125.0	630.943	57.547	10975.590	.000%	.000%
126.0	619.232	55.806	11031.400	.000%	.000%
127.0	607.385	54.064	11085.460	.000%	.000%
128.0	595.097	52.308	11137.770	.000%	.000%
129.0	582.157	50.517	11188.290	.000%	.000%
130.0	568.281	48.673	11236.960	.000%	.000%
131.0	553.155	46.757	11283.720	.000%	.000%
132.0	539.242	44.860	11328.580	.000%	.000%
133.0	525.649	43.048	11371.630	.000%	.000%
134.0	512.269	41.281	11412.910	.000%	.000%
135.0	499.182	39.556	11452.460	.000%	.000%
136.0	486.524	37.882	11490.340	.000%	.000%
137.0	472.116	36.182	11526.520	.000%	.000%
138.0	458.464	34.471	11561.000	.000%	.000%
139.0	443.457	32.768	11593.760	.000%	.000%
140.0	429.190	31.075	11624.840	.000%	.000%
141.0	413.646	29.395	11654.230	.000%	.000%
142.0	397.308	27.680	11681.910	.000%	.000%
143.0	380.920	25.976	11707.890	.000%	.000%
144.0	363.489	24.278	11732.170	.000%	.000%
145.0	345.411	22.572	11754.740	.000%	.000%
146.0	326.463	20.866	11775.610	.000%	.000%
147.0	308.515	19.216	11794.820	.000%	.000%
148.0	290.165	17.637	11812.460	.000%	.000%
149.0	271.342	16.087	11828.550	.000%	.000%
150.0	253.688	14.611	11843.160	.000%	.000%
151.0	237.284	13.256	11856.410	.000%	.000%

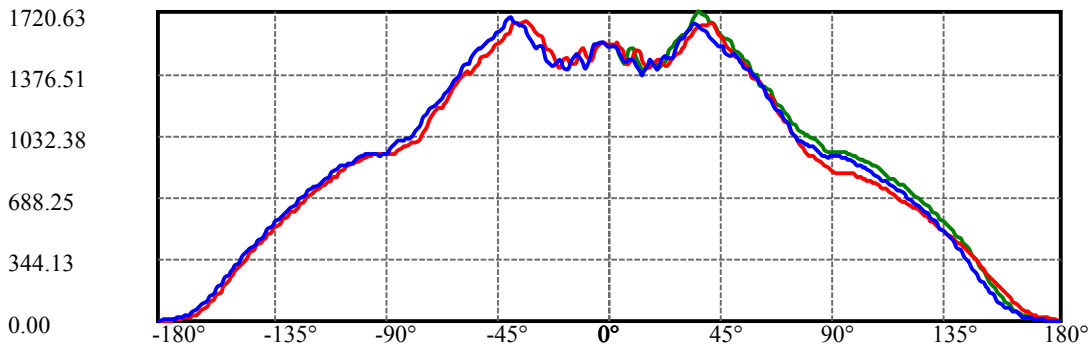
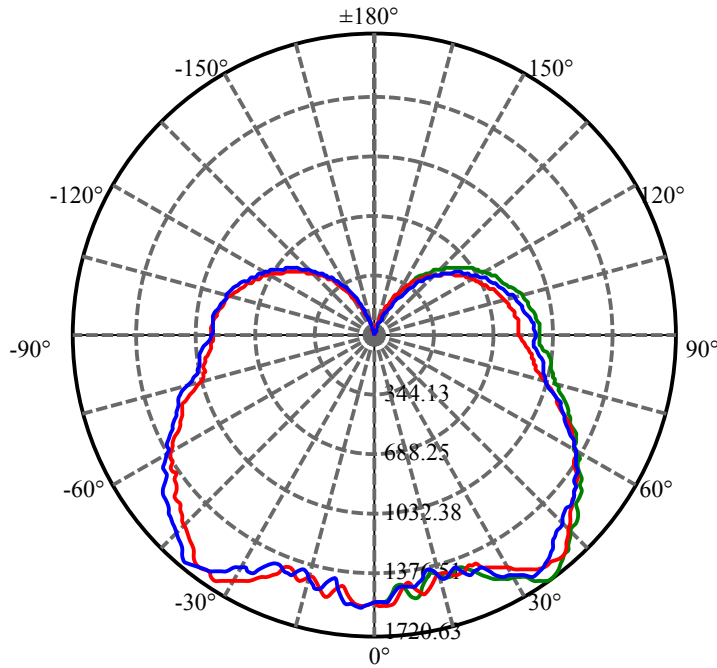
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
152.0	219.614	11.954	11868.370	.000%	.000%
153.0	203.281	10.707	11879.070	.000%	.000%
154.0	187.160	9.552	11888.630	.000%	.000%
155.0	170.283	8.437	11897.060	.000%	.000%
156.0	154.412	7.383	11904.450	.000%	.000%
157.0	140.195	6.441	11910.890	.000%	.000%
158.0	125.645	5.578	11916.470	.000%	.000%
159.0	111.661	4.769	11921.230	.000%	.000%
160.0	98.090	4.028	11925.260	.000%	.000%
161.0	85.797	3.366	11928.630	.000%	.000%
162.0	74.830	2.795	11931.420	.000%	.000%
163.0	63.951	2.288	11933.710	.000%	.000%
164.0	54.186	1.840	11935.550	.000%	.000%
165.0	46.443	1.474	11937.020	.000%	.000%
166.0	40.321	1.191	11938.220	.000%	.000%
167.0	34.471	.957	11939.170	.000%	.000%
168.0	29.219	.756	11939.930	.000%	.000%
169.0	24.521	.587	11940.520	.000%	.000%
170.0	21.047	.455	11940.970	.000%	.000%
171.0	18.154	.355	11941.330	.000%	.000%
172.0	16.050	.277	11941.600	.000%	.000%
173.0	13.620	.212	11941.820	.000%	.000%
174.0	11.749	.157	11941.970	.000%	.000%
175.0	10.069	.115	11942.090	.000%	.000%
176.0	8.813	.081	11942.170	.000%	.000%
177.0	7.052	.053	11942.220	.000%	.000%
178.0	5.149	.029	11942.250	.000%	.000%
179.0	3.670	.013	11942.260	.000%	.000%
180.0	3.230	.003	11942.270	.000%	.000%

## ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixt
0-30	1234.81	N.A.	10.34%
0-40	2257.04	N.A.	18.90%
0-60	4719.88	N.A.	39.52%
0-90	8082.19	N.A.	67.68%
0-120	10670.46	N.A.	89.35%
0-180	11942.27	N.A.	100.00%
60-90	3489.21	N.A.	29.22%
90-120	2687.44	N.A.	22.50%
90-130	3253.95	N.A.	27.25%
90-150	3860.14	N.A.	32.32%
90-180	3959.25	N.A.	33.15%
0-105.47	9553.81	N.A.	80.00%

## ZONAL LUMEN SUMMARY

0-10	141.83
10-20	404.47
20-30	688.52
30-40	1022.23
40-50	1198.40
50-60	1264.45
60-70	1226.91
70-80	1111.17
80-90	1024.24
90-100	974.62
100-110	879.98
110-120	733.66
120-130	566.50
130-140	387.88
140-150	218.32
150-160	82.10
160-170	15.71
170-180	1.29



C45(Max): —————

C0/C180: —————

C90/C270: —————

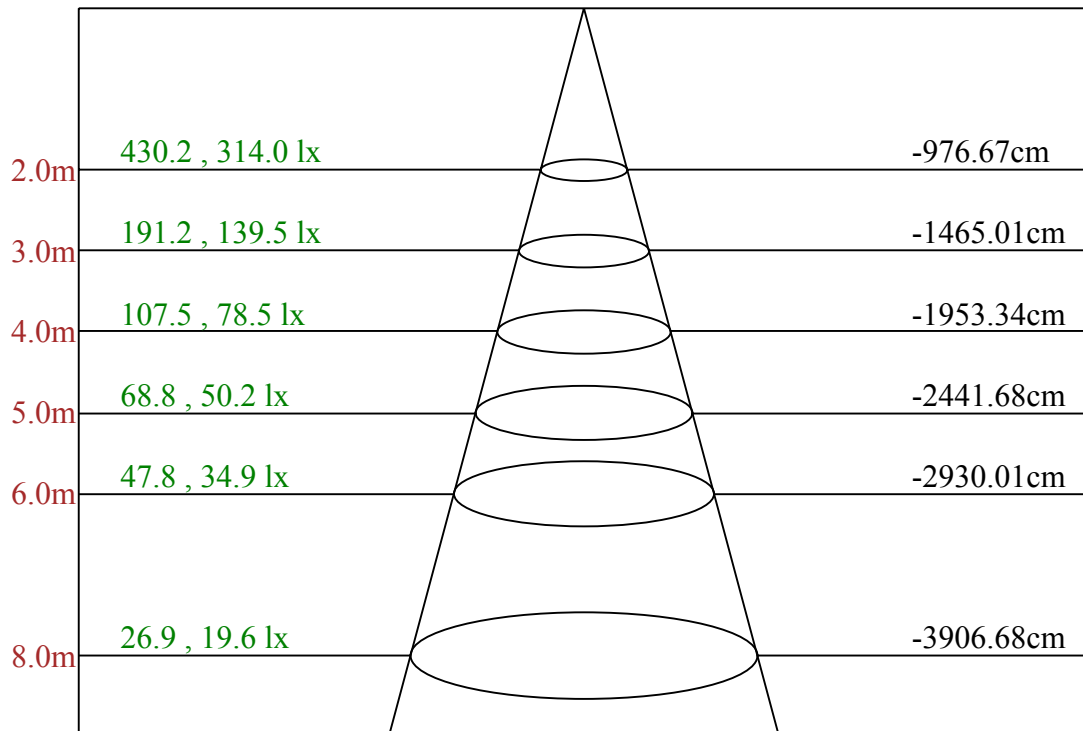
Field angle(10%Imax):C0/180Left:121.9 Right:190.4

:C90/270Left:117.0 Right:191.5

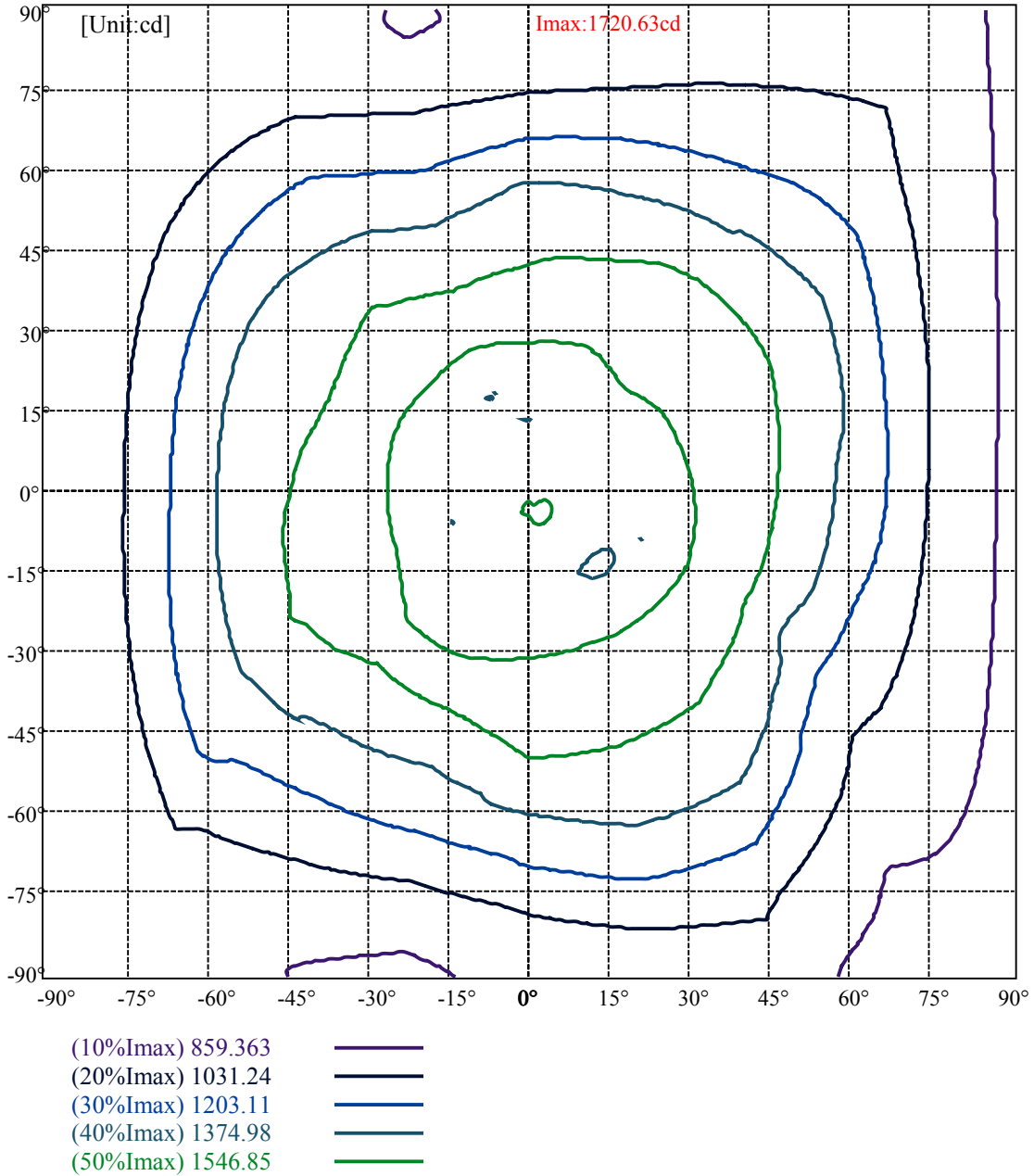
Beam Angle(50%Imax):C0/180Left:73.7 Right:121.5

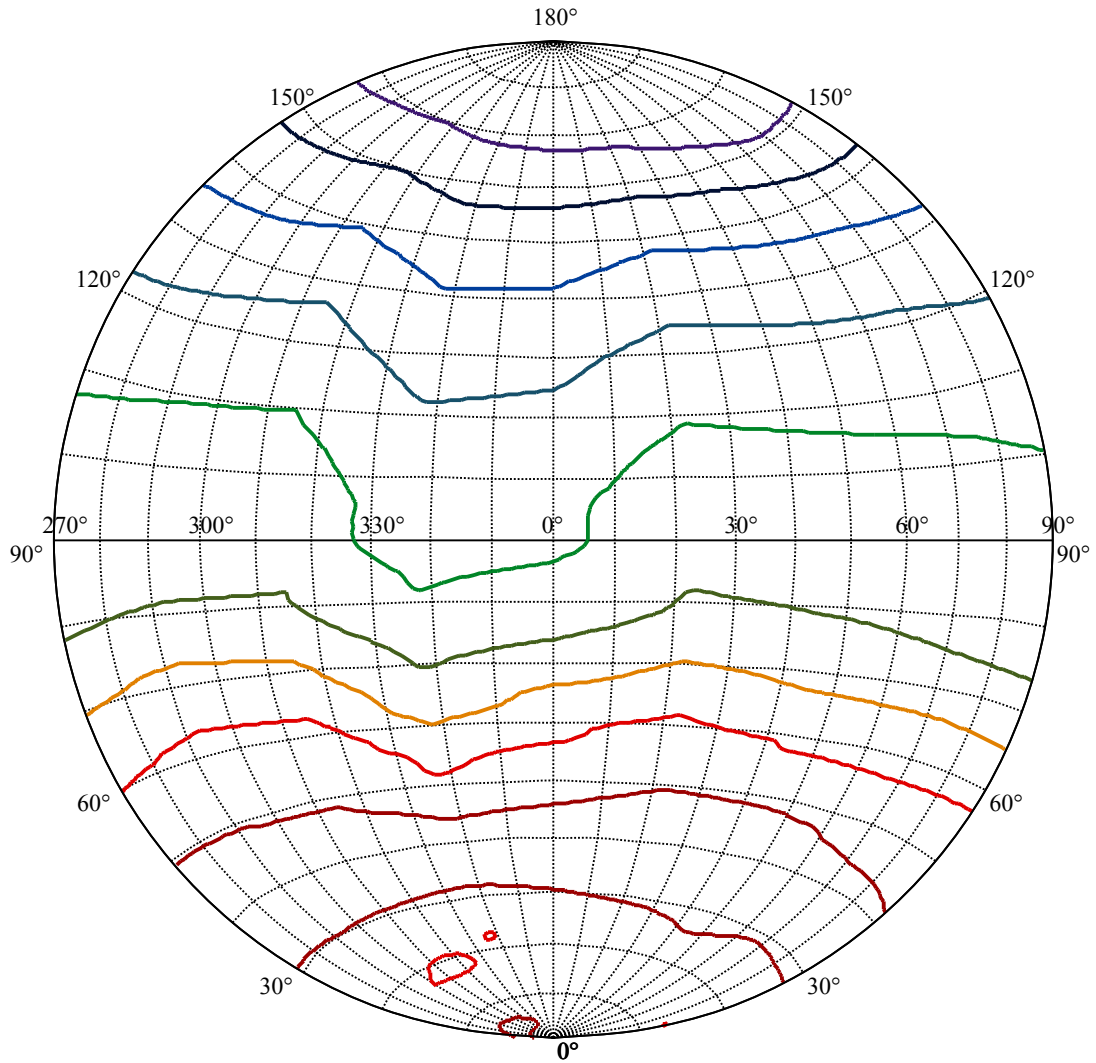
:C90/270Left:68.8 Right:142.8





Max , Ave      Beam angle of C45plane225.22





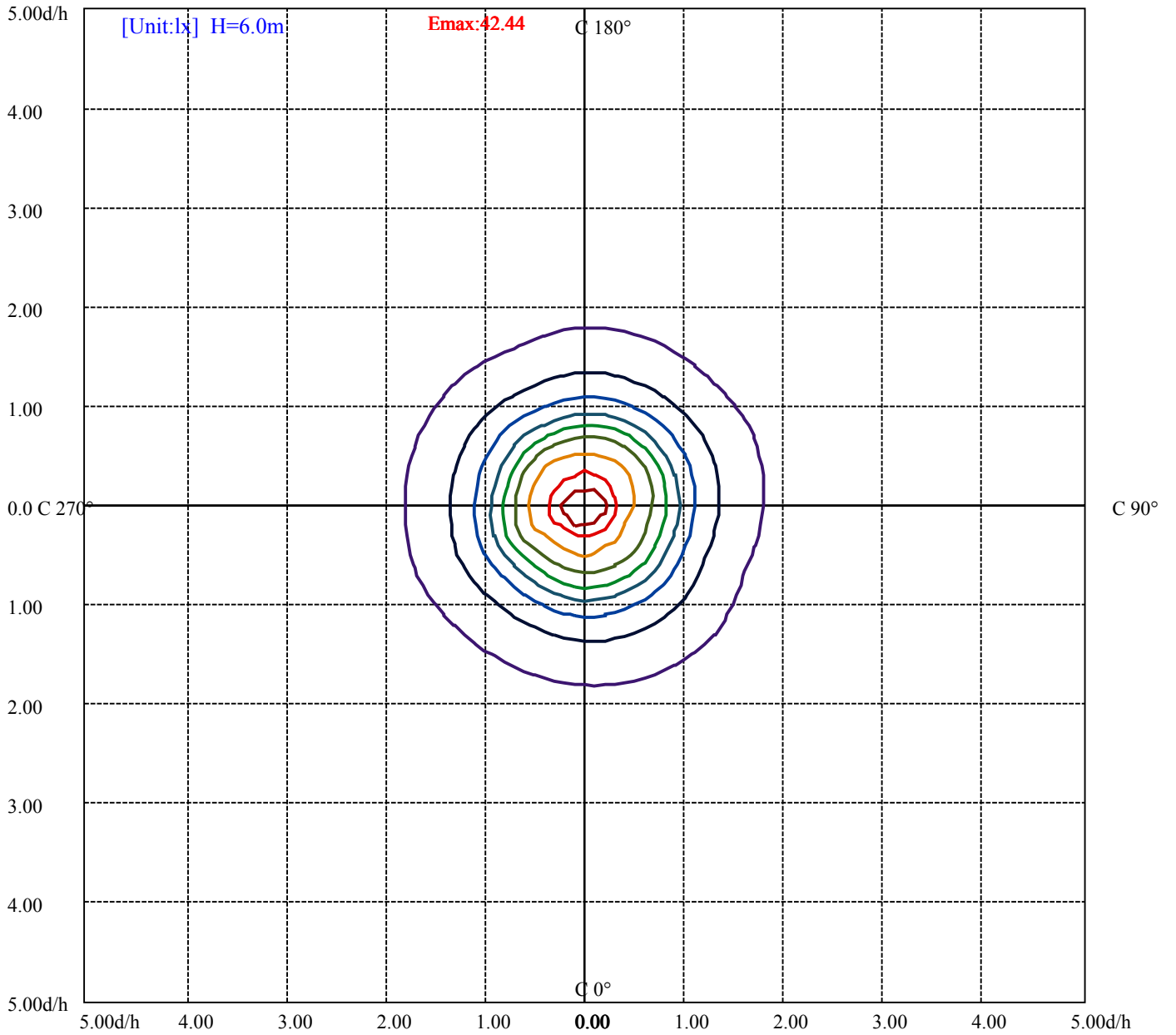
House

[Unit:cd]

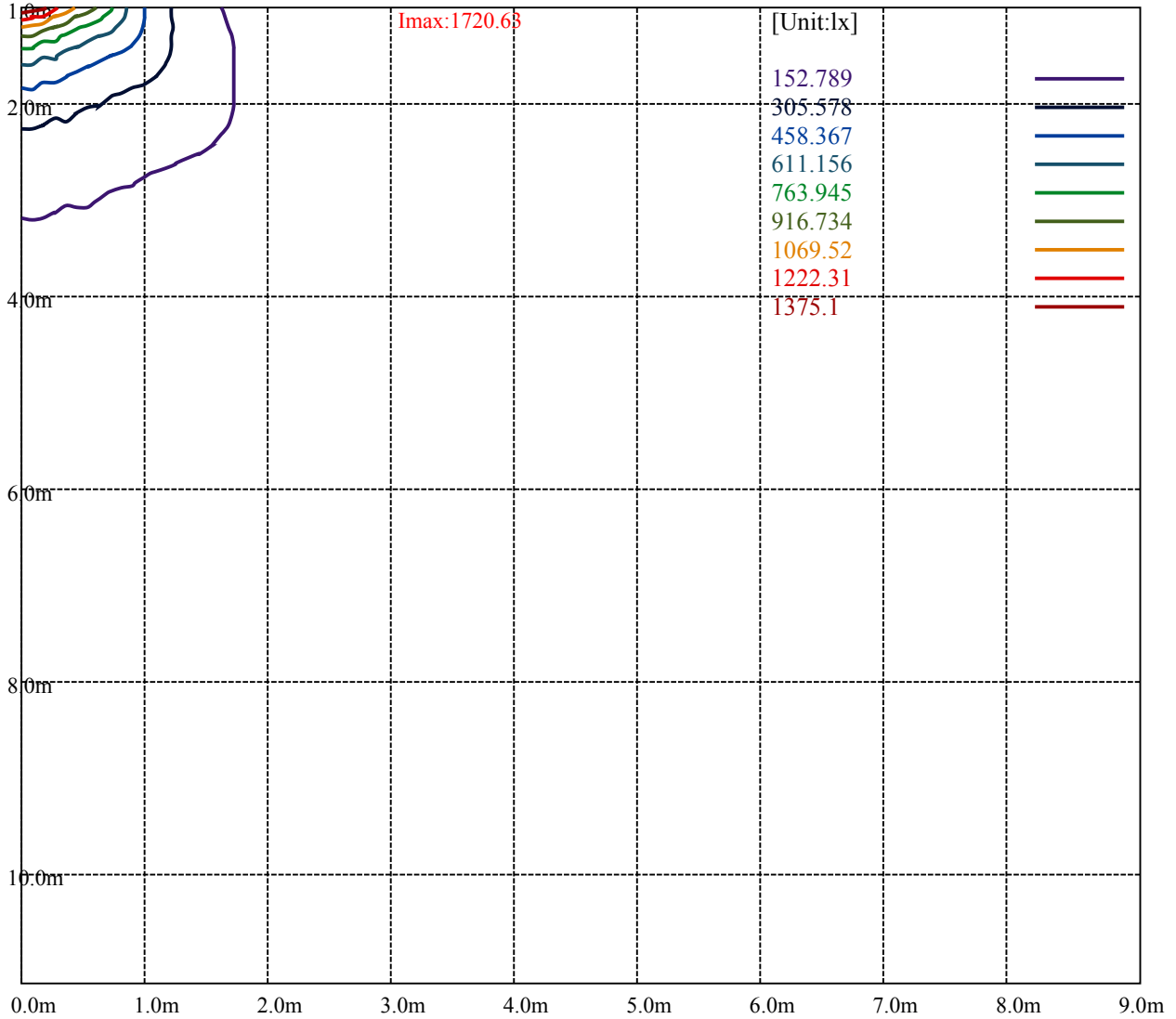
Road

Imax:1720.63

(10%Imax) 172.063	—
(20%Imax) 344.127	—
(30%Imax) 516.19	—
(40%Imax) 688.253	—
(50%Imax) 860.316	—
(60%Imax) 1032.38	—
(70%Imax) 1204.44	—
(80%Imax) 1376.51	—
(90%Imax) 1548.57	—



- (10%Emax) 4.244139
- (20%Emax) 8.488277
- (30%Emax) 12.73242
- (40%Emax) 16.97655
- (50%Emax) 21.22066
- (60%Emax) 25.46481
- (70%Emax) 29.70889
- (80%Emax) 33.95306
- (90%Emax) 38.19722



Luminance Table

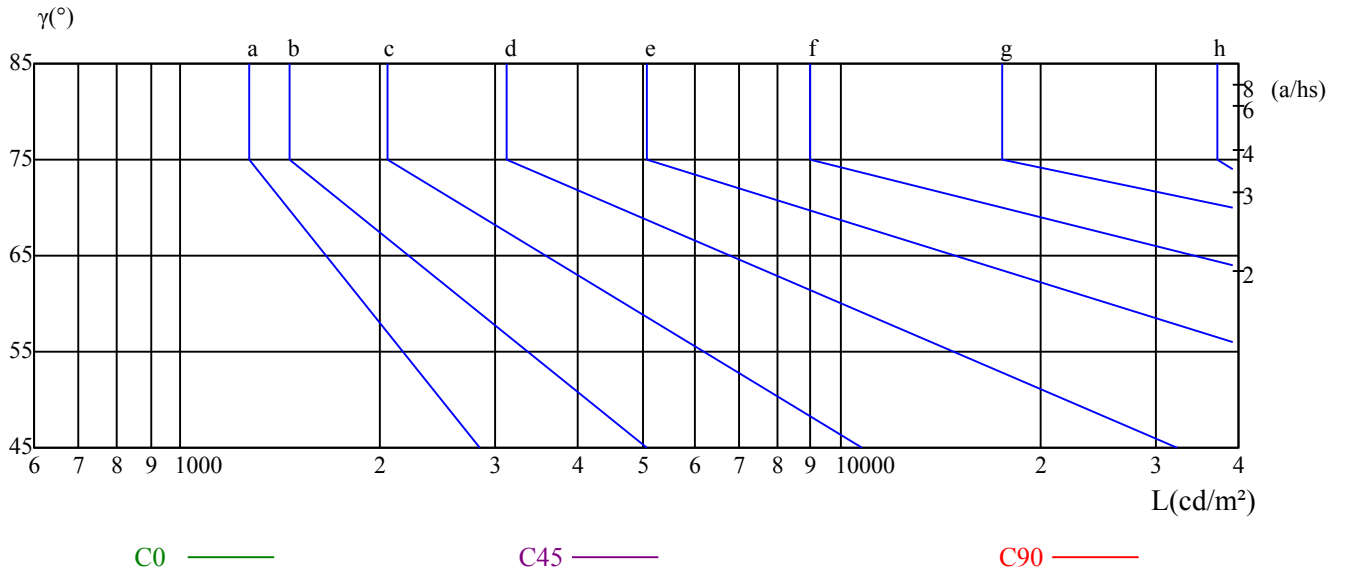
$\gamma$	45	50	55	60	65	70	75	80	85
C0	0	0	0	0	0	0	0	0	0
C45	0	0	0	0	0	0	0	0	0
C90	0	0	0	0	0	0	0	0	0

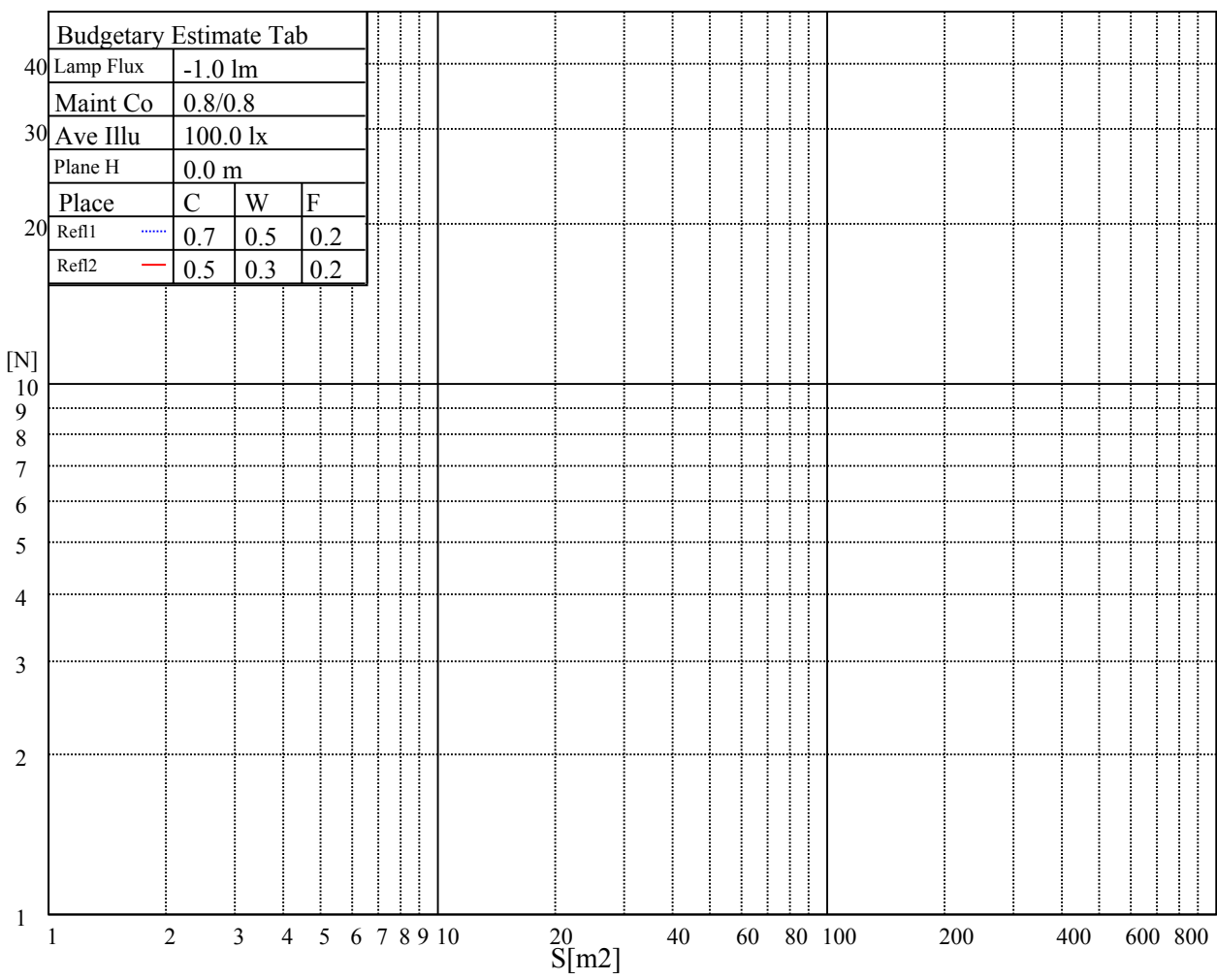
L横(65)	L纵(65)	L45(65)	L横(75)	L纵(75)	L45(75)	L横(85)	L纵(85)	L45(85)
0	0	0	0	0	0	0	0	0

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

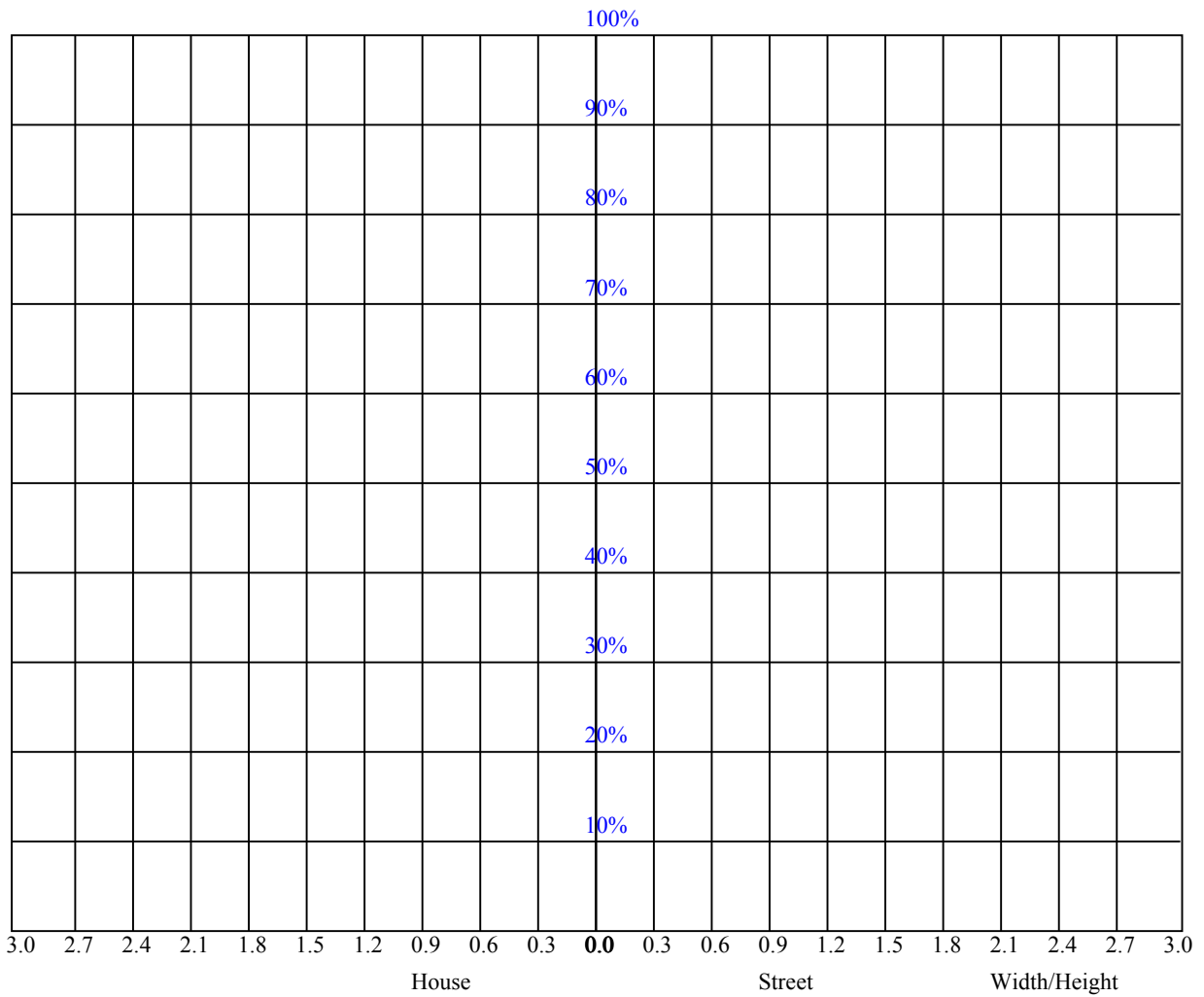
Luminance Limiting Curve





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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00





ASD Lighting Corp ASD-LWL1-100N50

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	1527.89	1540.30	1544.12	1544.82	1532.90	1508.98	1460.79	1433.21	1431.73
22.5	1527.89	1533.60	1534.56	1531.60	1515.50	1474.18	1436.43	1432.51	1462.53
45.0	1527.89	1524.64	1527.60	1514.46	1480.53	1440.95	1431.29	1456.87	1503.59
67.5	1527.89	1524.55	1526.20	1509.68	1467.40	1441.13	1436.95	1458.78	1496.37
90.0	1527.89	1524.81	1529.60	1520.90	1492.10	1457.31	1442.60	1445.30	1451.39
112.5	1527.89	1521.33	1526.64	1527.77	1516.37	1487.67	1467.66	1463.31	1471.57
135.0	1527.89	1523.25	1527.60	1529.16	1517.68	1497.50	1477.40	1477.23	1486.88
157.5	1527.89	1521.68	1525.94	1521.85	1510.81	1480.79	1459.22	1449.65	1451.65
180.0	1527.89	1539.17	1546.56	1544.91	1536.82	1513.85	1486.62	1450.35	1450.17
202.5	1527.89	1538.04	1542.12	1541.86	1544.99	1542.65	1507.24	1478.27	1466.88
225.0	1527.89	1535.34	1535.69	1536.90	1541.34	1543.95	1530.38	1508.81	1472.18
247.5	1527.89	1533.51	1541.60	1544.12	1543.78	1548.13	1532.73	1488.28	1442.78
270.0	1527.89	1533.51	1546.47	1553.43	1553.17	1543.60	1537.95	1512.20	1462.61
292.5	1527.89	1530.38	1539.43	1549.08	1567.18	1570.48	1567.79	1546.65	1504.37
315.0	1527.89	1529.86	1537.77	1548.04	1563.35	1573.27	1558.65	1511.42	1447.91
337.5	1527.89	1526.12	1532.29	1539.43	1545.52	1532.64	1484.71	1433.30	1384.67
360.0	1527.89	1540.30	1544.12	1544.82	1532.90	1508.98	1460.79	1433.21	1431.73
C/γ(°)	9.0	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0
0.0	1462.70	1495.67	1510.20	1494.45	1456.78	1428.25	1415.20	1408.59	1417.64
22.5	1487.23	1490.36	1475.84	1448.61	1421.64	1395.19	1383.10	1389.28	1396.41
45.0	1520.90	1501.93	1463.13	1422.60	1399.37	1400.59	1422.25	1442.00	1446.43
67.5	1507.94	1489.32	1453.57	1419.46	1398.76	1408.50	1443.13	1453.39	1437.73
90.0	1452.26	1441.13	1418.85	1385.01	1372.66	1390.32	1424.68	1450.35	1442.08
112.5	1483.58	1479.49	1452.52	1406.33	1383.01	1390.41	1413.72	1421.99	1401.20
135.0	1494.97	1490.28	1457.48	1417.81	1385.10	1392.41	1423.38	1450.17	1445.74
157.5	1463.66	1468.18	1446.00	1398.32	1375.97	1386.41	1429.73	1463.92	1458.35
180.0	1477.49	1510.11	1517.42	1489.23	1446.61	1427.12	1427.21	1447.65	1466.79
202.5	1478.62	1499.32	1510.89	1501.15	1452.52	1390.93	1366.31	1394.15	1442.26
225.0	1458.00	1460.61	1462.44	1460.18	1440.95	1407.11	1389.54	1391.37	1406.94
247.5	1431.29	1446.69	1472.36	1504.02	1505.59	1486.10	1453.13	1421.46	1399.19
270.0	1410.76	1413.37	1438.08	1477.23	1489.15	1469.57	1440.43	1411.46	1401.02
292.5	1459.65	1444.17	1446.78	1466.53	1462.18	1432.86	1404.41	1386.32	1381.19
315.0	1414.07	1419.12	1448.26	1485.84	1492.89	1479.66	1442.78	1408.94	1367.53
337.5	1379.80	1405.46	1457.83	1470.53	1449.56	1418.33	1402.24	1403.46	1404.41
360.0	1462.70	1495.67	1510.20	1494.45	1456.78	1428.25	1415.20	1408.59	1417.64
C/γ(°)	18.0	19.0	20.0	21.0	22.0	23.0	24.0	25.0	26.0
0.0	1440.52	1453.57	1448.78	1438.17	1423.47	1425.03	1433.12	1461.57	1475.84
22.5	1397.98	1402.67	1425.21	1443.30	1464.70	1477.58	1500.80	1506.98	1505.50
45.0	1436.86	1419.46	1412.16	1420.77	1441.30	1466.18	1501.85	1527.77	1554.39
67.5	1403.46	1389.36	1399.37	1420.94	1450.78	1472.79	1495.93	1502.63	1514.03
90.0	1412.68	1401.20	1417.72	1451.48	1475.84	1464.61	1459.05	1464.96	1494.97
112.5	1375.01	1368.31	1396.76	1442.69	1459.13	1462.53	1458.87	1470.62	1498.02
135.0	1416.94	1406.76	1419.12	1448.95	1474.97	1486.97	1500.54	1521.16	1540.12
157.5	1428.25	1398.24	1407.63	1438.08	1460.61	1454.52	1453.13	1470.70	1514.37
180.0	1456.09	1421.99	1408.94	1424.94	1471.22	1491.06	1511.68	1522.64	1546.73
202.5	1488.19	1490.62	1464.79	1452.00	1466.09	1503.76	1517.77	1520.38	1528.03
225.0	1429.21	1435.91	1417.64	1398.06	1393.54	1417.64	1442.26	1463.05	1456.44
247.5	1405.63	1417.12	1425.73	1430.43	1420.94	1425.21	1438.60	1462.26	1484.80
270.0	1415.29	1444.08	1449.13	1438.17	1420.25	1416.59	1428.95	1454.35	1493.67
292.5	1390.41	1402.33	1403.54	1397.11	1392.93	1392.58	1401.80	1419.72	1463.57
315.0	1351.44	1352.74	1361.00	1380.06	1404.50	1419.03	1428.77	1425.81	1450.61
337.5	1403.11	1403.63	1400.50	1391.10	1373.62	1373.01	1389.02	1412.77	1431.64
360.0	1440.52	1453.57	1448.78	1438.17	1423.47	1425.03	1433.12	1461.57	1475.84

ASD Lighting Corp ASD-LWL1-100N50

Intensity data(cd)

C/γ(°)	27.0	28.0	29.0	30.0	31.0	32.0	33.0	34.0	35.0
0.0	1485.93	1498.02	1512.55	1531.60	1559.70	1576.83	1596.32	1618.76	1630.42
22.5	1510.72	1526.38	1553.69	1590.49	1607.46	1635.73	1653.91	1669.57	1691.23
45.0	1564.83	1581.88	1589.97	1595.71	1604.76	1633.55	1668.61	1693.40	1715.94
67.5	1528.03	1532.29	1555.00	1578.92	1617.20	1641.82	1661.22	1668.18	1674.88
90.0	1532.55	1566.05	1571.27	1581.53	1603.63	1620.50	1641.30	1653.65	1648.26
112.5	1526.73	1545.60	1557.61	1577.70	1593.62	1614.94	1629.20	1626.86	1619.63
135.0	1560.91	1582.49	1598.58	1615.11	1634.77	1640.77	1646.25	1645.73	1641.47
157.5	1557.87	1590.67	1594.32	1591.45	1601.28	1619.20	1632.86	1641.90	1629.29
180.0	1576.40	1592.58	1599.89	1615.89	1639.38	1659.56	1670.44	1665.04	1652.26
202.5	1557.52	1591.10	1625.12	1644.78	1651.82	1666.70	1681.49	1695.75	1706.37
225.0	1460.61	1475.05	1484.36	1505.50	1527.86	1539.17	1559.26	1579.88	1593.97
247.5	1481.84	1486.01	1469.57	1467.83	1504.28	1529.77	1552.04	1574.83	1587.62
270.0	1525.25	1530.99	1521.59	1525.51	1551.43	1586.58	1606.76	1630.94	1643.04
292.5	1485.32	1516.98	1538.64	1543.95	1558.48	1573.44	1585.10	1604.76	1631.99
315.0	1475.40	1484.71	1498.28	1523.68	1546.47	1575.09	1612.07	1631.20	1648.17
337.5	1443.04	1446.52	1457.31	1478.10	1515.33	1544.12	1570.40	1579.53	1585.97
360.0	1485.93	1498.02	1512.55	1531.60	1559.70	1576.83	1596.32	1618.76	1630.42
C/γ(°)	36.0	37.0	38.0	39.0	40.0	41.0	42.0	43.0	44.0
0.0	1639.90	1642.95	1646.25	1650.26	1658.26	1655.30	1638.51	1614.24	1589.10
22.5	1691.84	1699.23	1709.59	1706.80	1688.27	1659.91	1637.82	1615.46	1608.76
45.0	1720.63	1713.76	1703.06	1683.57	1672.27	1659.48	1646.43	1625.90	1604.85
67.5	1679.40	1685.05	1687.14	1674.96	1658.78	1637.56	1609.02	1579.70	1553.52
90.0	1640.34	1628.25	1616.24	1598.93	1584.58	1556.83	1544.73	1534.03	1528.12
112.5	1601.98	1589.10	1571.53	1549.61	1523.51	1503.85	1485.14	1474.10	1460.26
135.0	1639.38	1634.42	1628.68	1619.37	1600.15	1579.18	1559.78	1552.56	1541.08
157.5	1612.76	1603.63	1586.40	1568.13	1547.43	1521.07	1516.03	1511.07	1510.20
180.0	1652.00	1659.48	1654.00	1635.73	1599.80	1587.10	1571.79	1557.09	1546.39
202.5	1710.11	1702.45	1692.80	1690.10	1693.84	1676.96	1652.78	1628.42	1616.50
225.0	1607.54	1589.10	1565.26	1553.69	1549.17	1549.69	1541.52	1520.72	1504.80
247.5	1587.62	1590.14	1591.62	1593.71	1587.71	1582.31	1561.78	1532.99	1512.98
270.0	1649.39	1660.35	1668.87	1684.27	1690.45	1672.27	1639.12	1619.98	1610.59
292.5	1659.13	1675.48	1681.57	1683.49	1671.74	1660.43	1652.08	1633.38	1616.76
315.0	1662.78	1677.14	1687.14	1691.49	1689.66	1684.18	1663.83	1649.04	1629.38
337.5	1597.89	1607.19	1611.37	1615.89	1616.68	1607.02	1590.23	1566.57	1550.91
360.0	1639.90	1642.95	1646.25	1650.26	1658.26	1655.30	1638.51	1614.24	1589.10
C/γ(°)	45.0	46.0	47.0	48.0	49.0	50.0	51.0	52.0	53.0
0.0	1570.40	1547.26	1529.34	1504.80	1493.49	1471.83	1461.39	1452.00	1440.52
22.5	1594.67	1580.66	1580.57	1566.57	1552.13	1532.64	1522.99	1525.42	1515.68
45.0	1583.62	1572.75	1567.44	1556.83	1534.38	1508.72	1496.45	1488.36	1475.75
67.5	1546.04	1536.47	1533.95	1516.20	1494.28	1457.31	1446.78	1444.17	1437.21
90.0	1525.86	1491.84	1484.27	1474.62	1486.27	1480.18	1464.27	1443.39	1436.69
112.5	1450.00	1446.69	1441.82	1430.60	1409.02	1393.71	1376.92	1361.27	1333.43
135.0	1526.55	1512.55	1508.20	1507.94	1494.02	1460.79	1436.51	1432.16	1420.16
157.5	1515.50	1514.11	1492.71	1487.49	1486.88	1486.27	1474.44	1456.00	1448.17
180.0	1536.12	1530.90	1504.28	1485.14	1472.53	1473.31	1463.57	1433.82	1416.25
202.5	1601.28	1575.96	1558.65	1553.78	1546.30	1540.21	1527.60	1517.94	1500.02
225.0	1496.28	1476.44	1449.56	1427.90	1428.34	1437.65	1424.60	1403.11	1387.19
247.5	1492.97	1483.06	1471.14	1456.96	1440.08	1429.03	1416.59	1394.32	1377.79
270.0	1597.89	1577.79	1569.87	1561.44	1551.69	1534.64	1518.64	1513.07	1508.63
292.5	1598.23	1574.92	1562.92	1548.74	1549.34	1542.04	1528.03	1523.77	1517.24
315.0	1614.94	1599.80	1572.92	1556.56	1538.56	1525.42	1521.42	1517.16	1509.68
337.5	1527.34	1503.15	1466.35	1436.43	1419.99	1413.81	1399.11	1369.10	1356.05
360.0	1570.40	1547.26	1529.34	1504.80	1493.49	1471.83	1461.39	1452.00	1440.52

ASD Lighting Corp ASD-LWL1-100N50

Intensity data(cd)

C/γ(°)	54.0	55.0	56.0	57.0	58.0	59.0	60.0	61.0	62.0
0.0	1427.55	1413.46	1394.32	1362.48	1345.78	1346.13	1333.43	1306.46	1286.97
22.5	1504.11	1499.93	1487.23	1462.26	1460.52	1441.30	1412.77	1390.32	1372.05
45.0	1455.91	1441.13	1417.72	1390.06	1367.70	1364.31	1316.64	1300.37	1301.59
67.5	1419.99	1403.46	1392.67	1366.66	1360.92	1351.00	1337.34	1322.12	1312.29
90.0	1412.85	1403.54	1400.41	1376.23	1360.57	1346.30	1322.47	1306.81	1286.10
112.5	1325.25	1305.33	1280.36	1270.79	1243.13	1228.43	1210.59	1204.50	1175.01
135.0	1413.29	1380.14	1358.66	1351.96	1343.35	1324.90	1318.47	1300.63	1281.41
157.5	1441.56	1421.12	1404.24	1391.19	1370.49	1357.61	1341.43	1324.99	1298.20
180.0	1406.68	1379.88	1382.23	1384.49	1362.74	1356.83	1343.26	1319.07	1305.33
202.5	1476.36	1450.00	1441.82	1426.60	1400.41	1385.45	1375.01	1360.66	1341.87
225.0	1386.15	1356.83	1334.30	1343.08	1332.12	1303.94	1294.28	1281.93	1259.48
247.5	1362.31	1342.74	1318.81	1309.51	1308.11	1289.58	1268.97	1267.84	1248.96
270.0	1491.41	1464.53	1433.47	1428.08	1420.94	1395.28	1369.01	1346.30	1340.65
292.5	1510.37	1495.84	1472.62	1467.66	1466.44	1456.61	1449.74	1415.98	1400.76
315.0	1495.84	1488.80	1474.62	1462.70	1458.00	1447.39	1433.82	1415.46	1395.11
337.5	1353.18	1340.82	1318.55	1295.15	1280.88	1244.43	1207.03	1186.58	1144.65
360.0	1427.55	1413.46	1394.32	1362.48	1345.78	1346.13	1333.43	1306.46	1286.97
C/γ(°)	63.0	64.0	65.0	66.0	67.0	68.0	69.0	70.0	71.0
0.0	1265.31	1251.57	1238.00	1211.90	1173.71	1143.00	1132.21	1108.03	1097.42
22.5	1352.22	1339.43	1321.51	1293.76	1269.05	1251.92	1231.12	1215.12	1196.76
45.0	1290.80	1280.01	1250.00	1226.51	1208.51	1192.93	1183.89	1168.23	1143.96
67.5	1282.19	1256.00	1223.73	1211.46	1183.28	1173.19	1152.40	1133.17	1116.64
90.0	1251.39	1226.08	1205.90	1187.89	1173.45	1160.57	1143.52	1126.73	1100.37
112.5	1156.48	1126.99	1116.03	1104.20	1098.98	1090.46	1077.67	1056.18	1036.96
135.0	1256.00	1233.91	1221.12	1202.59	1198.24	1190.32	1178.23	1154.92	1130.47
157.5	1272.71	1241.30	1223.03	1206.07	1189.28	1181.63	1169.71	1153.53	1136.74
180.0	1281.23	1245.04	1216.51	1206.07	1188.15	1185.11	1173.10	1161.36	1136.04
202.5	1328.64	1307.16	1277.75	1252.18	1243.56	1228.51	1226.60	1217.73	1207.81
225.0	1240.43	1224.51	1196.94	1169.36	1142.65	1130.65	1117.77	1112.47	1103.16
247.5	1232.52	1217.73	1201.89	1178.84	1141.00	1119.16	1108.55	1091.85	1079.50
270.0	1311.24	1286.45	1274.79	1257.31	1239.39	1219.55	1211.64	1195.28	1181.80
292.5	1386.67	1368.83	1355.52	1328.38	1307.07	1275.49	1253.39	1239.39	1230.25
315.0	1368.40	1352.31	1334.56	1314.90	1291.41	1273.05	1249.57	1235.91	1211.81
337.5	1120.30	1112.20	1103.33	1092.28	1073.41	1052.53	1037.74	1020.69	1011.03
360.0	1265.31	1251.57	1238.00	1211.90	1173.71	1143.00	1132.21	1108.03	1097.42
C/γ(°)	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0	80.0
0.0	1073.58	1052.01	1026.69	1006.16	979.63	962.66	945.27	934.48	923.34
22.5	1172.84	1153.44	1131.17	1112.64	1093.24	1080.37	1063.05	1052.09	1045.05
45.0	1124.65	1104.64	1090.37	1070.97	1060.18	1050.09	1041.65	1031.65	1026.17
67.5	1097.07	1076.45	1051.31	1038.78	1029.30	1022.52	1014.95	1006.42	1000.33
90.0	1074.80	1043.13	1023.73	1007.64	1000.68	989.54	984.76	978.84	975.54
112.5	1003.90	971.36	950.75	929.08	917.60	910.64	907.42	905.25	901.51
135.0	1100.20	1074.71	1046.18	1028.69	1014.86	1007.99	1006.25	1006.25	1002.51
157.5	1109.16	1074.36	1049.57	1023.82	1010.86	999.55	993.72	993.37	990.94
180.0	1108.46	1074.19	1046.26	1026.17	1006.33	996.68	989.11	988.76	985.80
202.5	1182.58	1145.18	1118.56	1087.85	1066.53	1047.22	1038.26	1029.56	1026.60
225.0	1089.33	1070.88	1038.87	1004.25	977.71	953.18	936.74	927.17	920.56
247.5	1060.97	1044.44	1017.30	991.28	959.79	929.95	908.64	894.64	889.94
270.0	1172.75	1155.61	1136.13	1106.03	1076.45	1055.49	1035.48	1025.56	1018.08
292.5	1222.77	1205.55	1186.76	1156.75	1128.21	1094.63	1070.54	1058.53	1048.09
315.0	1200.59	1178.41	1156.66	1137.17	1109.07	1088.98	1071.32	1054.62	1044.18
337.5	996.33	981.19	959.88	937.96	921.86	906.99	897.07	885.76	877.85
360.0	1073.58	1052.01	1026.69	1006.16	979.63	962.66	945.27	934.48	923.34

ASD Lighting Corp ASD-LWL1-100N50

Intensity data(cd)

C/γ(°)	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	916.21	907.60	900.55	891.68	879.06	865.84	853.40	839.39	831.04
22.5	1038.43	1032.61	1028.43	1021.12	1005.73	992.15	973.80	967.10	962.49
45.0	1019.47	1015.64	1006.16	986.59	970.93	950.66	944.22	938.04	938.57
67.5	997.63	985.54	974.67	959.10	944.74	936.04	929.95	930.04	933.17
90.0	971.62	960.84	949.35	932.30	923.69	917.17	913.60	914.21	916.56
112.5	893.85	885.15	870.45	860.88	852.18	844.79	839.57	839.39	841.31
135.0	994.16	986.33	973.62	962.75	955.70	949.27	945.61	944.05	944.48
157.5	981.54	976.93	966.75	954.40	946.66	940.57	934.13	932.04	932.74
180.0	977.45	970.84	960.75	946.22	939.87	933.78	927.34	925.43	925.60
202.5	1023.47	1014.86	1006.86	994.33	972.67	961.53	950.66	943.70	940.22
225.0	920.47	924.47	920.99	911.34	902.38	884.37	874.28	864.62	859.23
247.5	886.02	887.85	888.28	877.58	866.36	855.05	841.22	829.22	820.87
270.0	1011.12	1008.77	1004.51	1001.64	991.72	981.63	962.40	943.70	934.30
292.5	1038.17	1029.30	1021.99	1019.12	1017.38	1006.68	990.76	971.45	962.75
315.0	1035.13	1032.69	1027.39	1018.69	1013.12	999.98	989.72	971.71	958.66
337.5	868.62	858.97	850.62	843.48	834.70	820.26	806.60	792.77	784.15
360.0	916.21	907.60	900.55	891.68	879.06	865.84	853.40	839.39	831.04
C/γ(°)	90.0	91.0	92.0	93.0	94.0	95.0	96.0	97.0	98.0
0.0	826.87	824.87	824.61	824.95	825.21	824.08	822.78	818.26	811.99
22.5	961.71	965.10	967.36	967.71	965.71	962.14	955.18	948.05	939.78
45.0	942.22	944.05	943.79	943.87	940.31	934.83	929.52	923.08	917.34
67.5	934.74	936.74	937.44	935.96	932.56	928.82	924.04	914.99	907.25
90.0	917.86	915.77	914.38	910.55	908.29	902.99	896.03	883.76	874.19
112.5	841.92	840.87	838.70	836.00	830.78	825.74	820.17	815.47	808.69
135.0	944.83	943.18	942.22	939.26	936.22	929.26	920.39	914.12	907.08
157.5	929.69	929.26	928.74	925.78	921.78	917.60	910.99	904.90	896.81
180.0	927.43	929.61	930.74	929.87	926.56	920.39	915.08	909.77	903.33
202.5	938.83	939.52	937.96	936.74	929.61	921.52	912.64	905.25	898.72
225.0	860.80	863.58	866.80	868.10	867.67	864.80	860.45	853.49	848.35
247.5	815.04	815.91	817.65	820.43	822.08	822.61	822.78	822.08	816.34
270.0	926.47	920.99	921.69	924.82	926.91	928.48	928.48	924.91	920.73
292.5	955.01	948.48	946.40	948.92	952.66	953.53	951.96	947.09	941.61
315.0	953.62	950.40	952.40	950.66	951.53	952.75	951.96	947.44	940.13
337.5	779.20	776.24	778.41	779.54	780.67	781.72	781.63	779.11	773.98
360.0	826.87	824.87	824.61	824.95	825.21	824.08	822.78	818.26	811.99
C/γ(°)	99.0	100.0	101.0	102.0	103.0	104.0	105.0	106.0	107.0
0.0	805.73	798.77	793.46	788.59	784.59	778.59	770.50	764.41	757.10
22.5	934.65	929.95	925.00	918.21	910.21	902.46	894.37	886.46	875.93
45.0	908.82	902.29	897.42	891.42	884.02	877.41	870.80	862.19	852.97
67.5	898.46	891.07	883.41	877.24	873.67	863.32	854.44	843.74	831.39
90.0	866.01	861.58	857.05	850.53	843.48	835.13	828.00	817.12	805.55
112.5	799.29	792.94	785.72	779.80	768.06	759.45	752.58	745.53	734.92
135.0	900.03	888.55	879.67	870.80	863.67	853.40	844.44	837.65	829.30
157.5	886.46	879.06	871.67	865.67	860.97	852.53	839.92	831.30	819.30
180.0	898.38	891.59	885.41	877.93	873.76	867.84	860.62	846.70	830.87
202.5	890.02	883.33	872.54	862.88	852.62	846.44	839.39	833.04	822.95
225.0	843.48	838.09	833.83	828.69	821.74	812.77	806.95	800.42	793.64
247.5	810.86	804.16	797.90	792.77	790.16	786.85	781.28	777.63	771.71
270.0	914.82	906.21	898.38	887.50	880.63	874.89	869.15	864.54	860.97
292.5	934.22	928.13	920.30	913.34	907.95	899.77	893.77	885.24	876.63
315.0	934.83	929.00	924.39	917.78	911.77	904.81	896.46	887.33	877.41
337.5	769.28	764.06	757.53	753.53	748.31	744.92	737.09	732.83	725.00
360.0	805.73	798.77	793.46	788.59	784.59	778.59	770.50	764.41	757.10

Intensity data(cd)

C/γ(°)	108.0	109.0	110.0	111.0	112.0	113.0	114.0	115.0	116.0
0.0	750.49	740.57	732.48	722.91	714.82	703.51	693.77	683.76	672.37
22.5	867.58	856.27	848.01	838.09	827.48	817.56	805.29	795.46	783.63
45.0	839.57	828.43	815.30	805.55	795.72	787.46	780.50	771.19	763.10
67.5	822.61	812.34	805.82	794.68	780.67	769.63	762.84	754.66	745.96
90.0	793.29	783.02	775.72	765.28	756.84	746.83	739.00	729.61	724.22
112.5	723.69	715.34	703.08	693.77	685.24	680.63	672.02	663.93	653.75
135.0	821.56	807.29	791.72	777.54	769.37	759.97	750.05	742.48	730.83
157.5	808.69	799.81	788.33	779.80	769.80	762.32	750.84	738.48	730.48
180.0	819.04	805.73	796.86	785.20	775.72	763.80	754.58	744.14	736.83
202.5	811.82	802.94	787.81	774.15	757.45	745.96	735.44	728.13	718.91
225.0	784.85	773.98	765.89	755.62	748.05	737.96	730.48	720.30	713.60
247.5	765.71	755.97	746.31	733.44	725.09	715.34	706.56	694.99	685.59
270.0	852.97	843.57	832.09	820.60	805.55	790.16	779.28	767.89	760.41
292.5	866.54	859.49	849.05	840.35	828.96	818.69	808.51	800.33	789.90
315.0	870.80	864.01	858.53	850.79	843.31	832.70	822.95	808.43	797.81
337.5	718.74	709.78	703.42	696.03	687.77	678.28	667.76	660.97	652.97
360.0	750.49	740.57	732.48	722.91	714.82	703.51	693.77	683.76	672.37
C/γ(°)	117.0	118.0	119.0	120.0	121.0	122.0	123.0	124.0	125.0
0.0	666.54	660.54	654.10	644.18	633.92	626.00	617.13	609.39	596.77
22.5	774.15	765.02	755.88	747.79	735.96	724.65	710.30	699.86	688.20
45.0	753.71	746.14	733.26	718.30	707.77	697.16	688.81	676.46	665.41
67.5	740.14	728.83	718.30	710.04	702.03	687.07	669.24	656.27	638.79
90.0	718.39	703.16	689.07	676.63	666.28	648.10	636.79	631.22	619.04
112.5	642.01	630.70	618.00	610.26	597.38	588.86	579.11	565.80	556.93
135.0	720.30	710.99	702.38	685.33	673.33	661.49	647.84	640.01	627.57
157.5	721.52	713.69	702.73	691.77	678.11	663.58	652.79	639.14	628.26
180.0	726.39	716.21	705.95	692.20	680.28	664.71	650.97	632.87	621.56
202.5	711.60	701.77	692.81	677.94	662.63	647.31	632.09	622.17	608.34
225.0	704.73	698.81	688.72	678.54	663.06	654.19	642.01	628.52	618.78
247.5	680.11	675.41	670.37	660.62	651.06	638.62	628.87	613.39	598.34
270.0	751.27	743.44	732.65	721.78	706.90	695.86	682.37	671.41	656.54
292.5	779.37	763.28	751.01	737.00	723.35	709.78	699.51	690.72	681.68
315.0	783.98	775.02	763.62	750.92	741.70	731.78	723.69	712.91	704.82
337.5	647.05	638.62	630.96	621.04	613.91	605.12	598.42	591.12	584.07
360.0	666.54	660.54	654.10	644.18	633.92	626.00	617.13	609.39	596.77
C/γ(°)	126.0	127.0	128.0	129.0	130.0	131.0	132.0	133.0	134.0
0.0	586.59	572.07	561.02	552.49	539.44	527.35	513.95	504.38	492.12
22.5	677.07	667.24	654.36	644.44	631.83	620.00	603.12	585.64	571.11
45.0	651.23	638.27	626.26	610.52	598.69	583.90	568.76	556.67	541.97
67.5	632.44	621.83	609.82	596.25	579.63	567.02	552.14	540.57	527.18
90.0	609.21	596.42	580.07	564.50	551.19	530.31	518.22	505.60	492.64
112.5	544.75	531.61	517.17	506.12	491.77	477.07	463.93	453.15	442.62
135.0	615.04	600.86	585.81	569.37	556.32	540.14	525.18	514.91	502.82
157.5	616.34	606.17	593.12	578.76	564.76	549.53	537.62	523.18	511.95
180.0	612.34	604.69	591.55	579.11	563.89	549.27	535.35	520.13	509.52
202.5	597.73	582.07	571.89	555.01	539.88	520.22	507.60	492.64	476.03
225.0	608.86	601.21	587.64	577.72	559.45	545.88	527.00	510.82	494.47
247.5	581.37	566.76	558.06	542.14	528.40	510.47	497.34	477.42	461.15
270.0	639.05	629.05	617.65	606.08	591.12	579.63	563.63	551.71	534.22
292.5	668.45	655.40	644.62	629.22	616.52	598.95	585.38	571.72	558.58
315.0	693.68	683.07	668.71	659.93	648.01	633.48	620.78	604.60	591.38
337.5	573.54	561.45	553.80	542.84	531.61	517.26	507.86	497.25	488.55
360.0	586.59	572.07	561.02	552.49	539.44	527.35	513.95	504.38	492.12

ASD Lighting Corp ASD-LWL1-100N50

Intensity data(cd)

C/γ(°)	135.0	136.0	137.0	138.0	139.0	140.0	141.0	142.0	143.0
0.0	480.55	471.50	459.76	450.45	436.88	426.27	412.43	401.56	388.77
22.5	555.28	542.31	525.70	512.91	497.77	486.64	469.50	450.62	436.44
45.0	530.22	515.61	502.38	485.33	471.59	455.32	441.05	427.22	406.78
67.5	514.74	497.08	480.72	468.98	445.66	426.35	401.30	379.72	354.84
90.0	480.37	462.98	448.19	429.83	410.43	393.82	371.37	354.24	327.62
112.5	431.57	420.70	410.87	397.56	385.38	368.15	354.50	337.62	323.27
135.0	493.77	481.85	471.41	455.32	436.18	421.31	401.65	383.38	364.24
157.5	498.03	485.68	470.54	457.15	444.71	426.35	411.13	392.60	377.90
180.0	494.38	480.55	464.54	455.06	442.97	431.05	413.83	397.38	383.03
202.5	465.76	454.02	442.01	424.00	409.04	392.77	378.59	357.80	341.53
225.0	479.94	467.93	452.89	440.88	425.13	410.43	390.51	374.24	351.71
247.5	445.93	435.92	422.44	410.87	396.95	385.29	373.55	355.37	341.71
270.0	522.39	509.60	492.03	475.50	457.58	444.27	432.53	420.09	405.82
292.5	541.62	529.44	510.56	496.82	485.42	472.63	462.37	446.71	434.88
315.0	574.85	561.45	544.14	532.40	518.13	507.69	494.90	481.07	468.98
337.5	477.50	467.76	455.67	442.36	431.48	418.70	409.13	397.30	387.21
360.0	480.55	471.50	459.76	450.45	436.88	426.27	412.43	401.56	388.77
C/γ(°)	144.0	145.0	146.0	147.0	148.0	149.0	150.0	151.0	152.0
0.0	374.33	361.98	345.88	331.70	311.87	293.17	271.68	258.54	244.80
22.5	412.96	395.30	369.81	351.45	328.75	305.00	287.95	270.37	260.46
45.0	388.51	365.20	344.93	319.53	299.43	274.72	252.89	235.92	210.61
67.5	336.58	311.17	283.34	262.54	239.14	217.66	199.21	178.77	155.72
90.0	308.74	285.25	268.55	245.15	227.49	213.31	189.91	177.55	161.81
112.5	308.74	293.43	277.51	262.54	248.02	226.27	216.87	197.04	178.07
135.0	350.58	330.83	313.26	300.39	283.08	264.02	243.15	228.27	206.00
157.5	355.80	334.75	319.61	305.08	290.47	268.90	251.67	233.49	212.00
180.0	363.46	344.49	323.27	312.91	297.17	278.99	255.50	241.14	220.70
202.5	322.40	300.39	282.64	260.28	246.45	227.14	212.61	193.30	175.73
225.0	328.40	308.13	288.82	273.07	252.54	234.36	212.70	191.38	172.42
247.5	324.48	311.35	292.47	277.42	259.33	249.15	239.14	222.70	210.35
270.0	394.08	379.55	365.72	342.75	319.09	305.69	288.73	275.59	255.32
292.5	419.57	405.04	382.77	363.98	349.28	328.66	313.70	295.43	283.42
315.0	453.76	439.23	420.96	403.13	379.99	362.50	342.49	328.40	308.74
337.5	373.46	360.50	343.88	324.31	310.56	291.95	280.81	268.63	257.67
360.0	374.33	361.98	345.88	331.70	311.87	293.17	271.68	258.54	244.80
C/γ(°)	153.0	154.0	155.0	156.0	157.0	158.0	159.0	160.0	161.0
0.0	226.70	215.48	201.04	181.29	173.46	157.28	142.76	126.31	111.00
22.5	238.27	216.44	205.83	189.56	172.59	155.37	134.93	118.92	100.56
45.0	195.21	177.29	157.02	140.49	123.62	109.44	93.52	80.56	68.99
67.5	139.01	119.53	108.83	101.09	90.39	84.04	74.64	66.29	55.24
90.0	145.45	133.19	111.96	99.26	88.04	78.38	69.94	62.20	56.20
112.5	166.94	145.89	129.97	115.00	100.74	89.78	80.47	71.60	64.64
135.0	189.21	172.33	153.89	133.27	120.66	105.87	94.04	80.47	69.77
157.5	195.47	178.77	161.72	145.45	127.71	115.70	100.04	85.60	76.03
180.0	200.52	189.04	164.85	149.98	135.45	119.53	102.04	89.17	75.42
202.5	160.33	139.01	126.05	111.18	99.69	87.69	76.55	66.72	57.94
225.0	156.15	142.58	125.62	108.48	91.78	75.77	63.68	51.15	41.32
247.5	196.43	180.34	167.46	155.11	142.76	127.10	112.66	99.17	83.95
270.0	243.23	227.57	203.65	188.60	168.68	153.80	138.41	118.92	107.96
292.5	266.20	253.06	234.97	215.48	201.39	183.21	168.59	150.50	132.66
315.0	290.56	275.33	256.72	239.23	220.09	199.65	183.90	164.50	150.24
337.5	242.80	228.70	214.96	197.13	186.08	167.72	150.41	137.36	120.83
360.0	226.70	215.48	201.04	181.29	173.46	157.28	142.76	126.31	111.00

Intensity data(cd)

C/γ(°)	162.0	163.0	164.0	165.0	166.0	167.0	168.0	169.0	170.0
0.0	98.56	85.17	72.73	66.64	58.46	50.46	42.80	35.06	29.66
22.5	85.95	69.94	60.29	54.02	49.32	41.15	35.32	29.58	25.92
45.0	53.76	44.45	39.41	34.10	31.40	25.84	21.14	19.31	16.70
67.5	47.41	42.28	35.75	28.88	24.10	20.01	17.92	16.35	13.83
90.0	50.11	40.45	31.93	26.10	21.40	19.31	16.35	13.31	12.18
112.5	55.07	47.15	37.75	31.49	28.71	26.18	21.75	19.05	15.31
135.0	61.07	49.06	41.15	33.93	30.97	28.45	23.40	19.49	15.22
157.5	65.59	55.94	43.50	34.62	29.93	25.14	22.71	18.44	16.79
180.0	66.03	54.54	42.54	34.10	27.23	22.79	21.49	19.40	16.79
202.5	48.72	43.93	37.84	30.88	25.92	22.62	18.88	17.22	15.40
225.0	35.93	31.40	28.27	25.75	22.79	20.97	18.88	15.66	14.61
247.5	73.77	62.20	52.89	45.50	37.06	27.75	23.40	19.57	18.44
270.0	94.47	82.21	72.38	62.20	55.24	44.54	34.36	27.58	22.79
292.5	119.62	103.61	86.64	76.03	64.90	55.85	47.24	37.84	32.27
315.0	130.40	113.26	99.78	86.30	75.42	66.55	54.72	45.58	37.32
337.5	110.83	97.61	84.12	72.55	62.29	53.94	47.15	38.89	33.49
360.0	98.56	85.17	72.73	66.64	58.46	50.46	42.80	35.06	29.66
C/γ(°)	171.0	172.0	173.0	174.0	175.0	176.0	177.0	178.0	179.0
0.0	25.84	22.44	19.75	18.88	17.14	15.22	12.18	8.26	5.05
22.5	21.14	19.23	17.57	16.35	15.48	14.01	9.92	6.96	3.83
45.0	16.18	15.22	13.83	12.61	10.96	8.53	6.44	4.52	3.39
67.5	12.18	10.44	9.05	7.31	5.22	4.00	3.65	3.31	3.13
90.0	11.14	10.00	8.26	5.05	3.39	3.04	3.13	3.13	3.13
112.5	11.66	7.92	4.87	3.65	3.04	3.13	3.13	3.13	3.22
135.0	12.35	10.00	6.52	4.00	3.04	3.04	3.04	3.13	3.13
157.5	16.53	14.53	10.27	7.13	3.83	3.13	3.04	3.13	3.13
180.0	14.88	13.05	10.53	6.96	4.78	3.39	3.22	3.13	3.13
202.5	13.66	12.35	10.79	10.35	8.18	5.57	4.44	3.48	3.31
225.0	11.92	10.87	11.40	12.18	12.01	10.09	6.26	4.09	3.39
247.5	17.57	15.22	13.31	12.01	12.35	11.66	8.79	4.87	3.65
270.0	19.92	18.79	14.88	12.96	12.18	12.27	10.53	5.92	3.57
292.5	27.32	24.27	21.84	18.53	15.31	13.74	11.14	8.09	4.78
315.0	30.62	28.62	24.10	21.14	17.75	14.88	12.53	8.61	4.52
337.5	27.58	23.84	20.97	18.88	16.44	15.31	11.40	8.61	4.35
360.0	25.84	22.44	19.75	18.88	17.14	15.22	12.18	8.26	5.05
C/γ(°)	180.0								
0.0	3.23								
22.5	3.23								
45.0	3.23								
67.5	3.23								
90.0	3.23								
112.5	3.23								
135.0	3.23								
157.5	3.23								
180.0	3.23								
202.5	3.23								
225.0	3.23								
247.5	3.23								
270.0	3.23								
292.5	3.23								
315.0	3.23								
337.5	3.23								
360.0	3.23								