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NATA

Client:

LumCAT: 5-1343-F

Luminaire: 92.70.467.00

Report No: 20260717-C003

Ballast type:

Test No: 20260717-C003

LampCAT: BRIDGELUX 2835

Lamp flux(lm): 3117.9

Number of Lamps: 1

Length(mm): -135

Phm Type: C

Voltage(V): 0.000

Current(A): 0.000

Power (W): 19.389

PF: 0.000

Width(mm): -135

Height(mm): 0

Photometric Results

Lumens(lm): 2440.47, Efficiency(%): 78.27% , Luminous Efficacy(lm/W): 125.87

Central intensity(cd): 2514.100, Maximum intensity(cd): 2521.400

Angle of maximum intensity: C=112.5 γ =2.0

Beam Angle(50%Imax): [C0/180]Total=60.7

[C90/270]Total=60.8

Field angle(10%Imax): [C0/180]Total=93.6

[C90/270]Total=93.5

Maximum s/h(1/2): C0_180=0.88 C90_270=0.94

Maximum s/h(1/4): C0_180=0.91 C90_270=0.97

Up flux rate of lamp(%): 0.00%

Down flux rate of lamp(%): 78.27%

Up flux rate of LUM(%): - -

Down flux rate of LUM(%): 100.00%

CIE Type : Direct lighting

Output flux ratio in π solid angle : 99.901%

$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
0.0	2514.100	0.000	0	0.00%	0.00%
2.0	2507.719	9.611	9.611	0.31%	0.39%
4.0	2490.175	28.683	38.294	0.92%	1.57%
6.0	2460.669	47.316	85.61	1.52%	3.51%
8.0	2417.656	65.193	150.803	2.09%	6.18%
10.0	2359.419	81.946	232.749	2.63%	9.54%
12.0	2287.006	97.219	329.968	3.12%	13.52%
14.0	2202.550	110.746	440.714	3.55%	18.06%
16.0	2103.888	122.222	562.936	3.92%	23.07%
18.0	1996.769	131.469	694.405	4.22%	28.45%
20.0	1881.519	138.458	832.863	4.44%	34.13%
22.0	1763.844	143.253	976.116	4.59%	40.00%
24.0	1645.794	146.090	1122.207	4.69%	45.98%
26.0	1525.575	146.971	1269.177	4.71%	52.01%
28.0	1405.744	145.930	1415.107	4.68%	57.99%
30.0	1280.300	142.797	1557.905	4.58%	63.84%
32.0	1150.469	137.283	1695.188	4.40%	69.46%
34.0	1015.696	129.371	1824.559	4.15%	74.76%
36.0	878.034	119.109	1943.668	3.82%	79.64%
38.0	742.621	106.952	2050.62	3.43%	84.03%
40.0	614.614	93.662	2144.281	3.00%	87.86%
42.0	495.426	79.858	2224.139	2.56%	91.14%
44.0	387.697	66.045	2290.184	2.12%	93.84%
46.0	288.312	52.417	2342.601	1.68%	95.99%
48.0	199.296	39.105	2381.706	1.25%	97.59%
50.0	121.159	26.521	2408.227	0.85%	98.68%
52.0	63.716	15.755	2423.981	0.51%	99.32%
54.0	28.835	8.105	2432.087	0.26%	99.66%
56.0	11.695	3.641	2435.727	0.12%	99.81%
58.0	5.047	1.540	2437.267	0.05%	99.87%
60.0	3.395	0.794	2438.06	0.03%	99.90%
62.0	2.585	0.574	2438.634	0.02%	99.92%
64.0	1.954	0.444	2439.077	0.01%	99.94%
66.0	1.467	0.340	2439.417	0.01%	99.96%
68.0	1.065	0.256	2439.673	0.01%	99.97%
70.0	0.763	0.187	2439.86	0.01%	99.98%
72.0	0.528	0.134	2439.994	0.00%	99.98%
74.0	0.372	0.094	2440.088	0.00%	99.98%

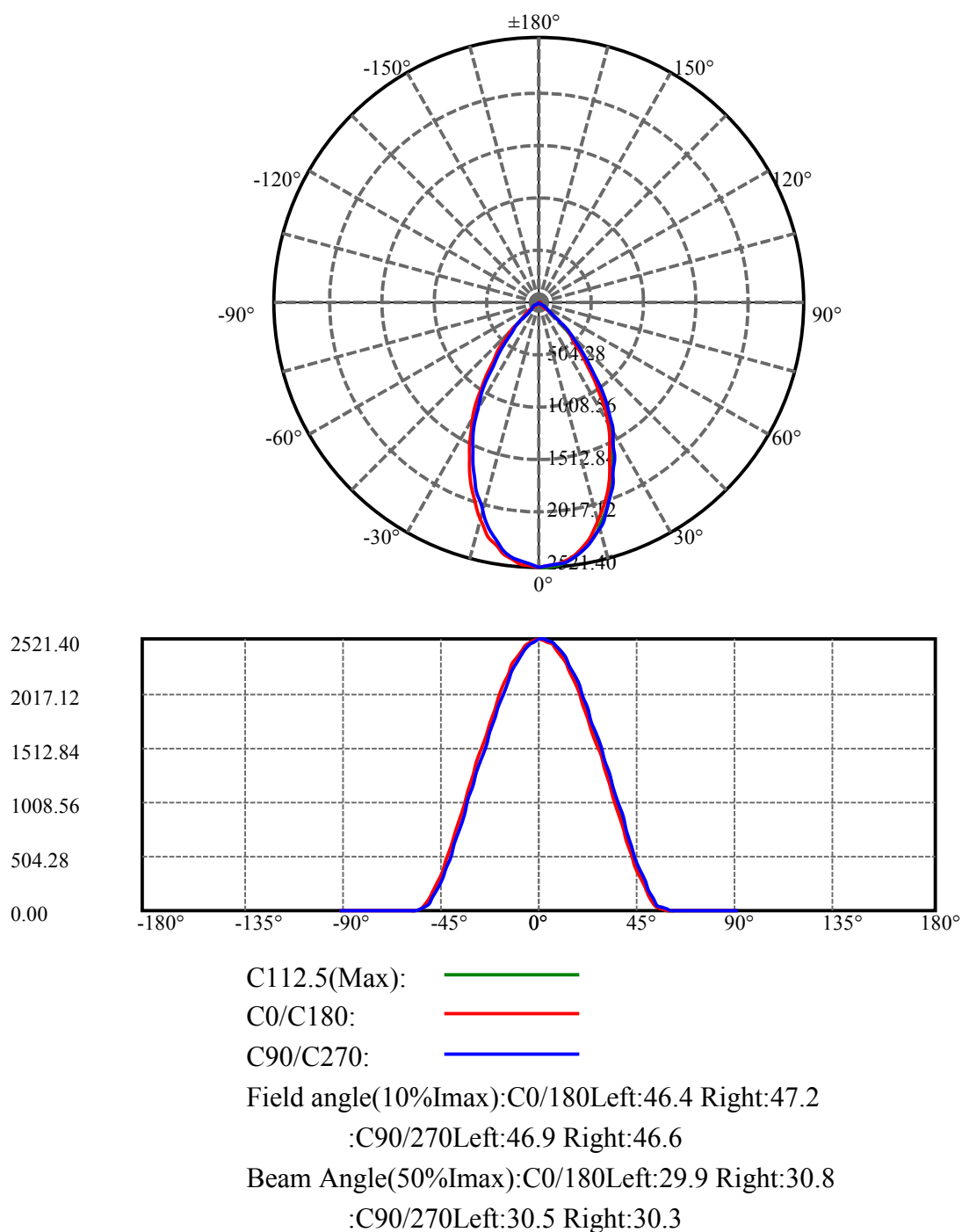
$\gamma(^{\circ})$	Average I(cd)	Zonal F(lm)	Sum F(lm)	Eff Flux(%)	Eff Sum(%)
76.0	0.268	0.068	2440.156	0.00%	99.99%
78.0	0.210	0.051	2440.207	0.00%	99.99%
80.0	0.195	0.044	2440.251	0.00%	99.99%
82.0	0.189	0.042	2440.292	0.00%	99.99%
84.0	0.187	0.041	2440.333	0.00%	99.99%
86.0	0.192	0.041	2440.375	0.00%	100.00%
88.0	0.202	0.043	2440.418	0.00%	100.00%
90.0	0.237	0.048	2440.466	0.00%	100.00%

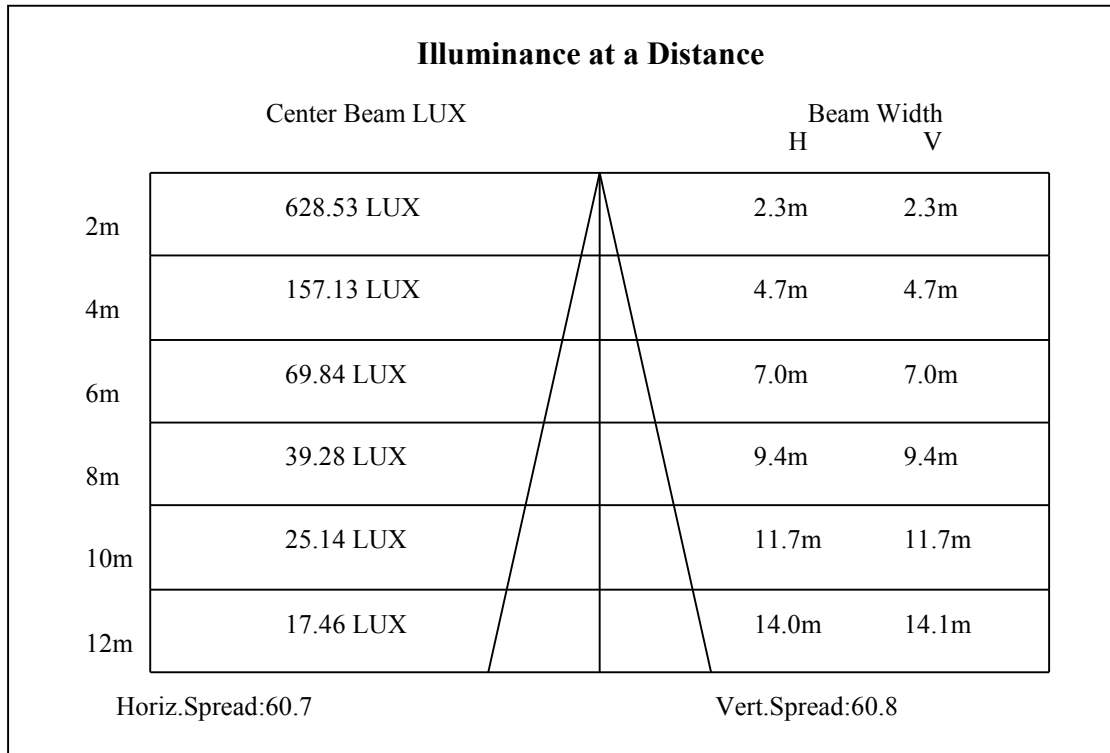
ZONAL LUMEN SUMMARY

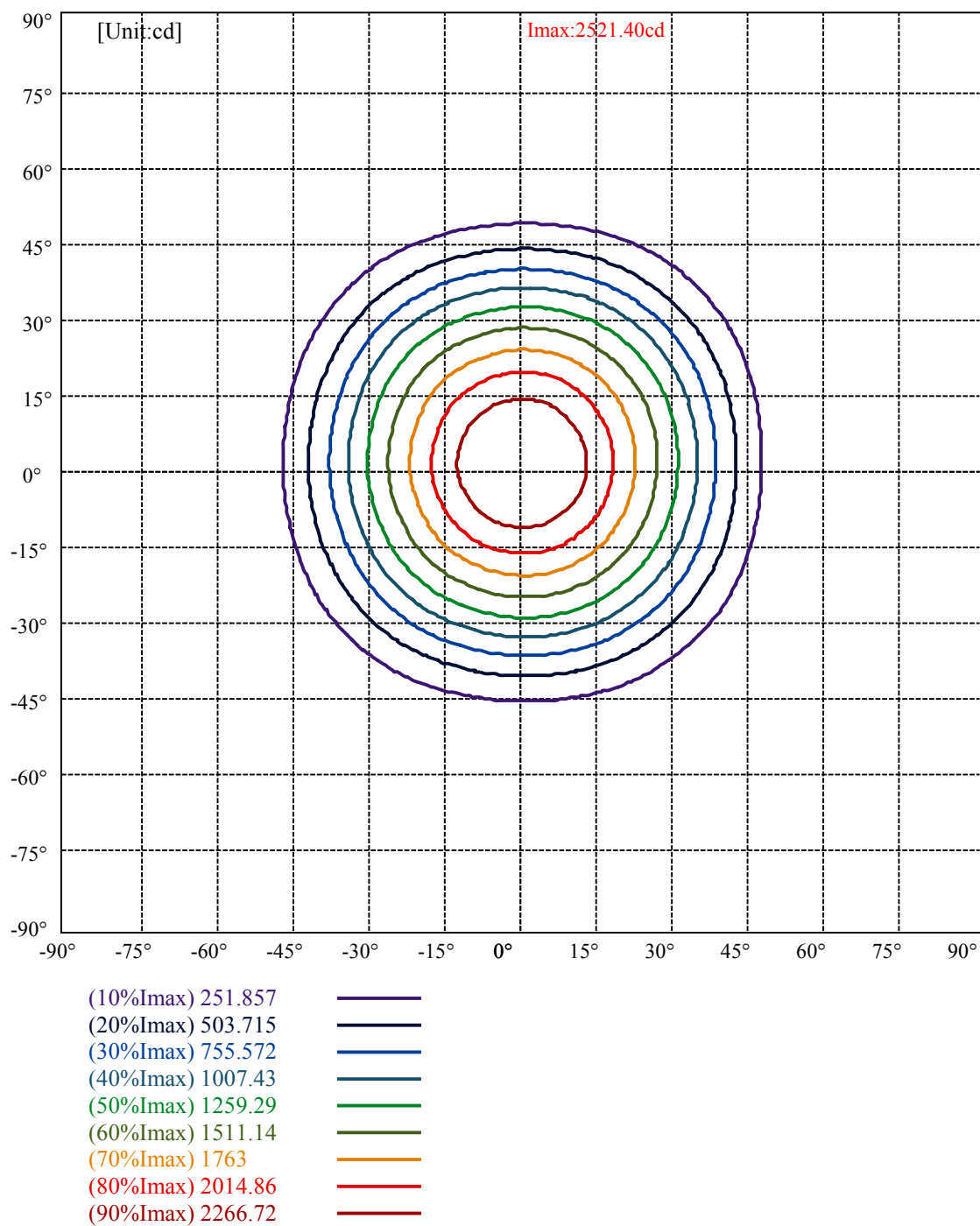
Zone	Lumens	%Lamp	%Fixt
0-30	1557.90	49.97%	63.84%
0-40	2144.28	68.77%	87.86%
0-60	2438.06	78.20%	99.90%
0-90	2440.42	78.27%	100.00%
0-120	2440.42	78.27%	100.00%
0-180	2440.47	78.27%	100.00%
60-90	2.36	0.08%	0.10%
90-120	0.00	0.00%	0.00%
90-130	0.00	0.00%	0.00%
90-150	0.00	0.00%	0.00%
90-180	0.00	0.00%	0.00%
0-36.16	1952.37	62.62%	80.00%

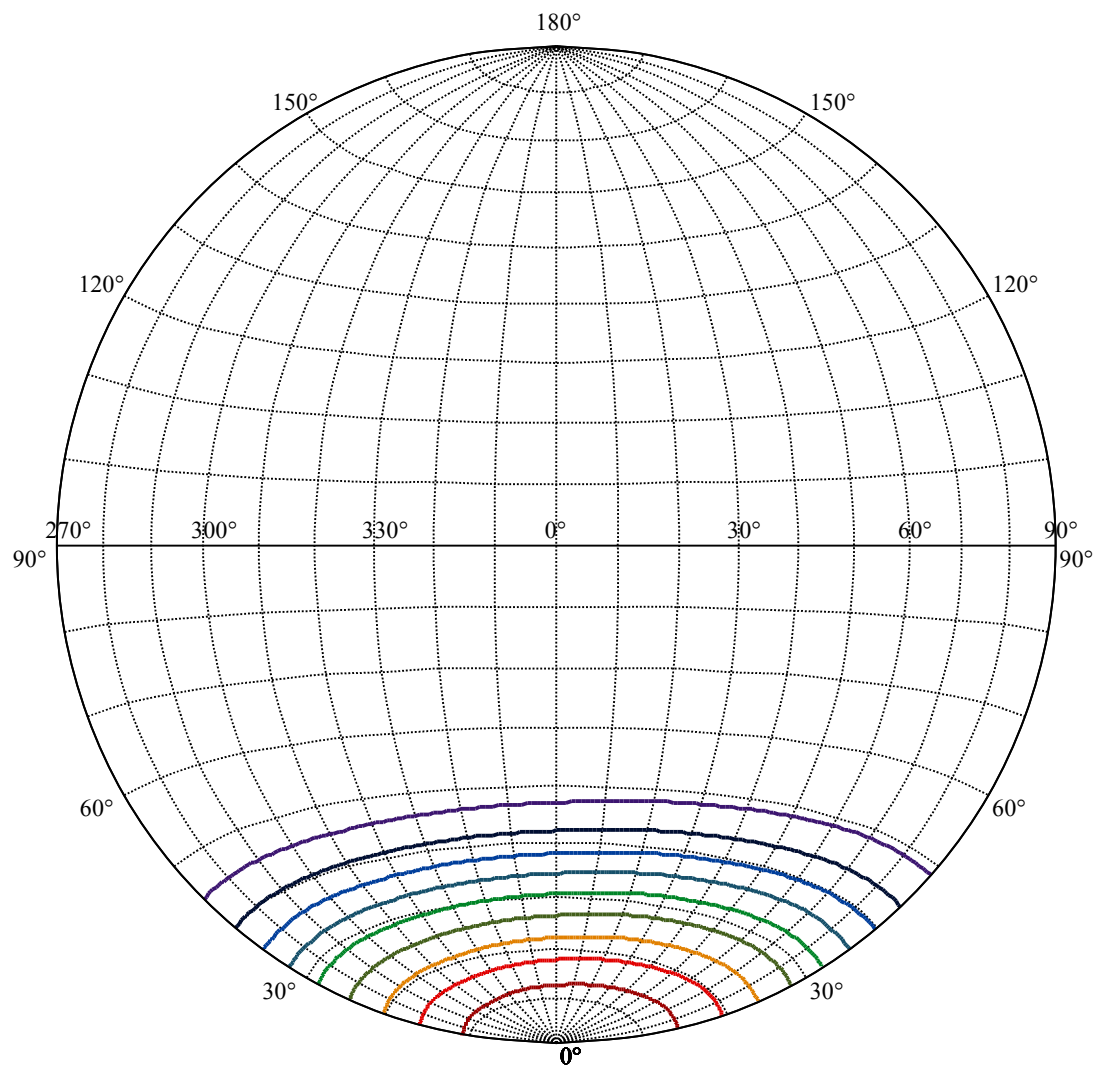
ZONAL LUMEN SUMMARY

0-10	232.75
10-20	600.11
20-30	725.04
30-40	586.38
40-50	263.95
50-60	29.83
60-70	1.80
70-80	0.39
80-90	0.17
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







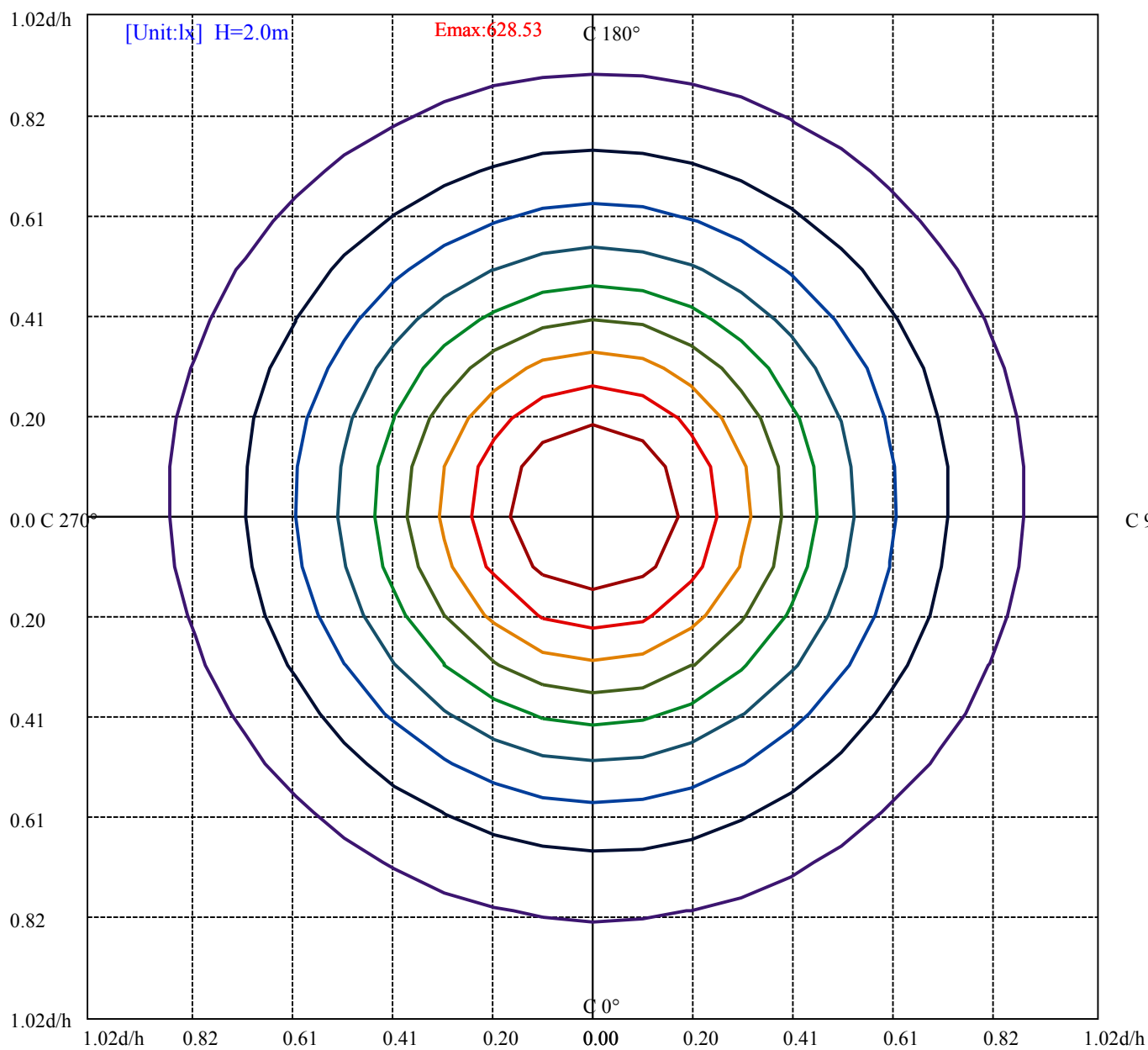


House

[Unit:cd]

Road

Imax:2521.40	
(10%Imax) 252.126	
(20%Imax) 504.251	
(30%Imax) 756.377	
(40%Imax) 1008.5	
(50%Imax) 1260.63	
(60%Imax) 1512.75	
(70%Imax) 1764.88	
(80%Imax) 2017	
(90%Imax) 2269.13	



(10%Emax) 62.8525

(20%Emax) 125.705

(30%Emax) 188.5575

(40%Emax) 251.41

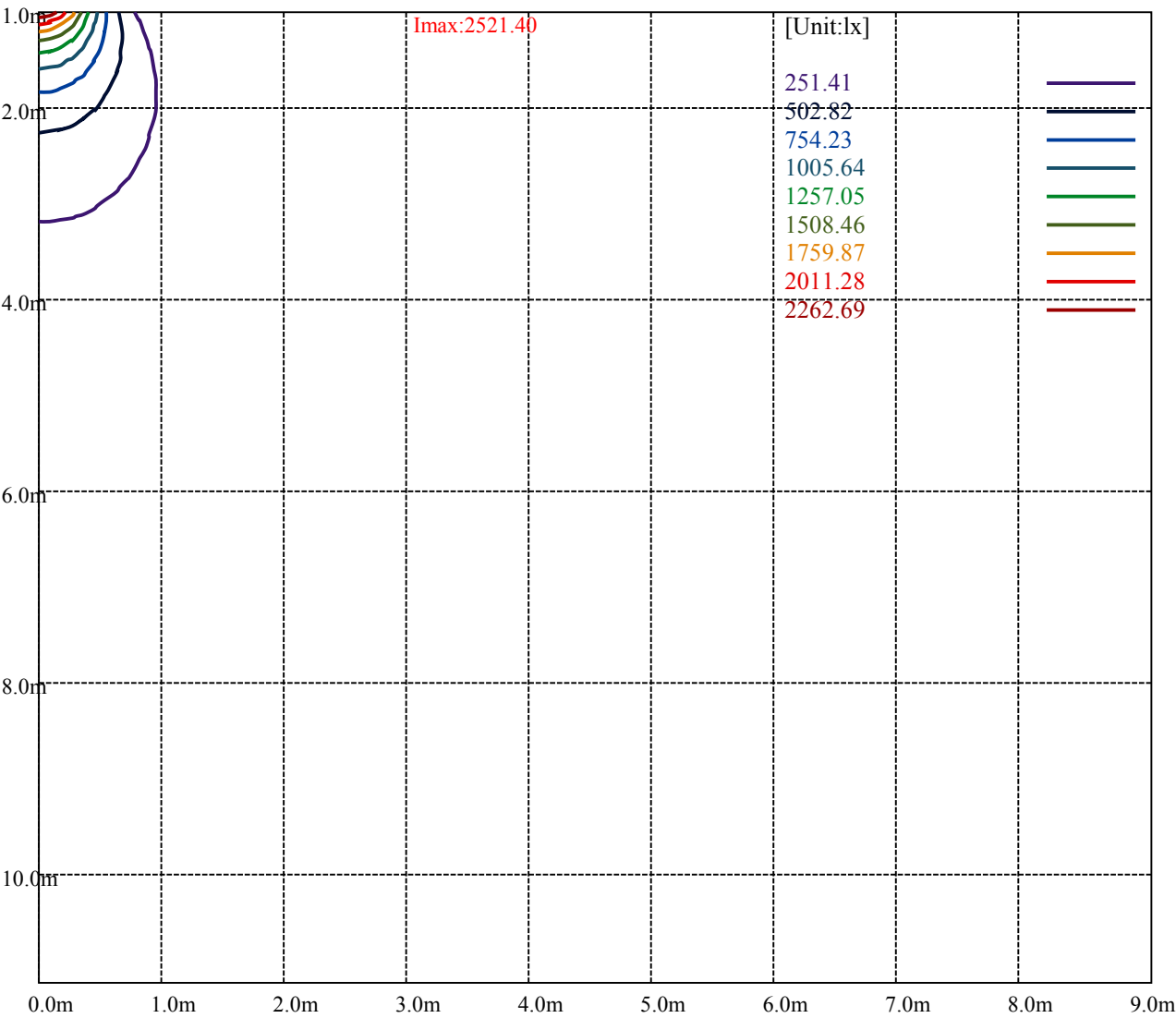
(50%Emax) 314.2625

(60%Emax) 377.115

(70%Emax) 439.9675

(80%Emax) 502.82

(90%Emax) 565.6725



Luminance Table

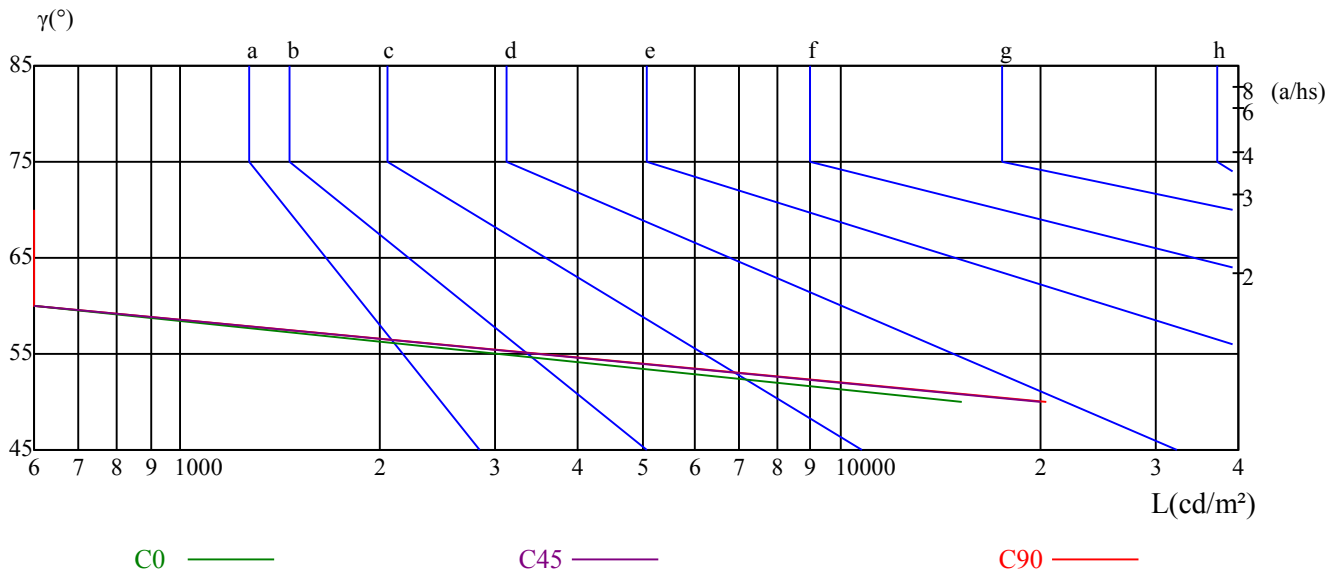
γ	45	50	55	60	65	70	75	80	85
C0	0	15270	0	461	0	163	0	80	0
C45	0	20085	0	545	0	204	0	80	0
C90	0	20444	0	601	0	204	0	80	0

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

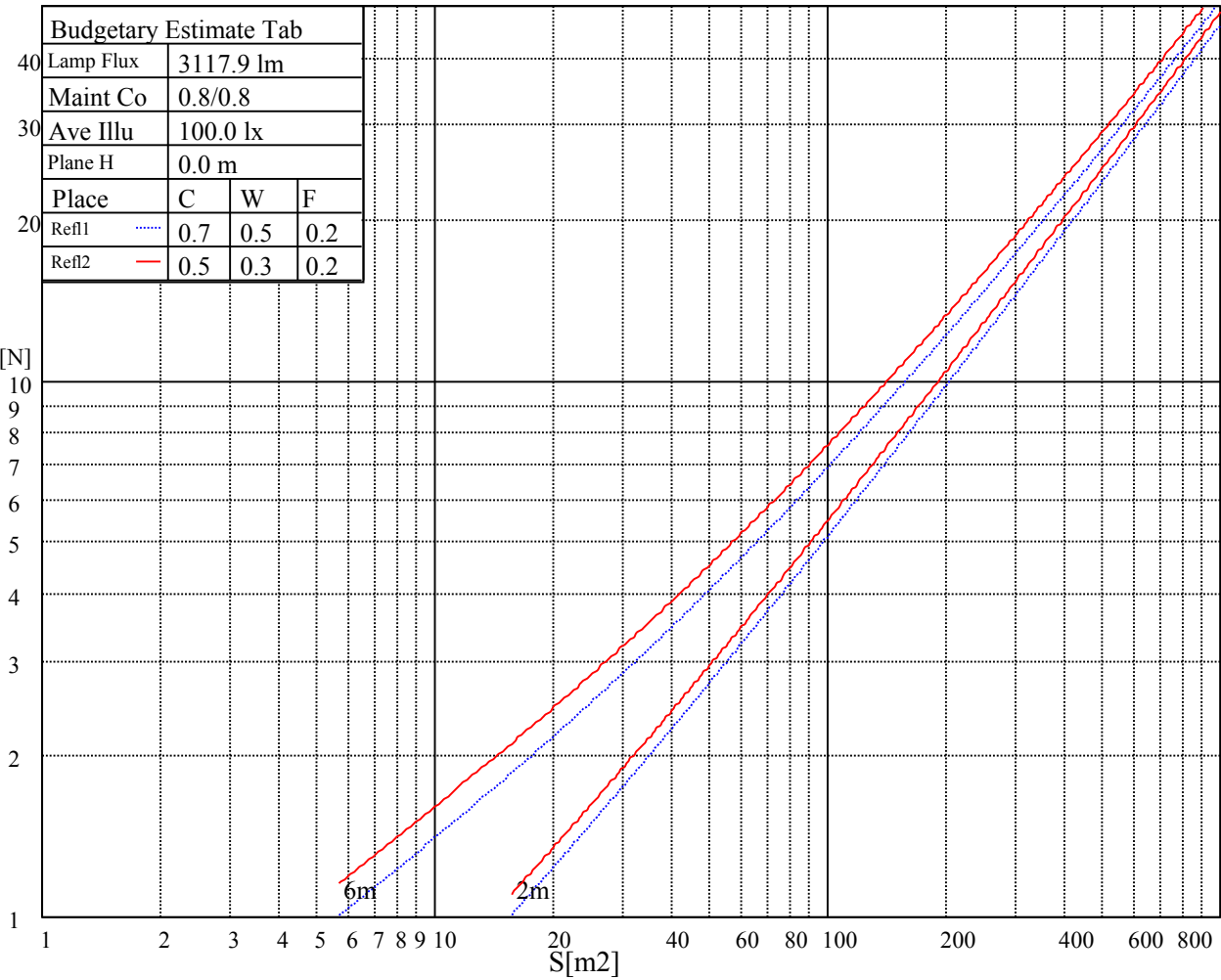
Glare	Quality	Service Values Illuminance(lx)							
1.15	A	2000	1000	500	≤ 300				
1.5	B		2000	1000	500	≤ 300			
1.85	C			2000	1000	500	≤ 300		
2.2	D				2000	1000	500	≤ 300	
2.55	E					2000	1000	500	≤ 300
		a	b	c	d	e	f	g	h

Luminance Limiting Curve

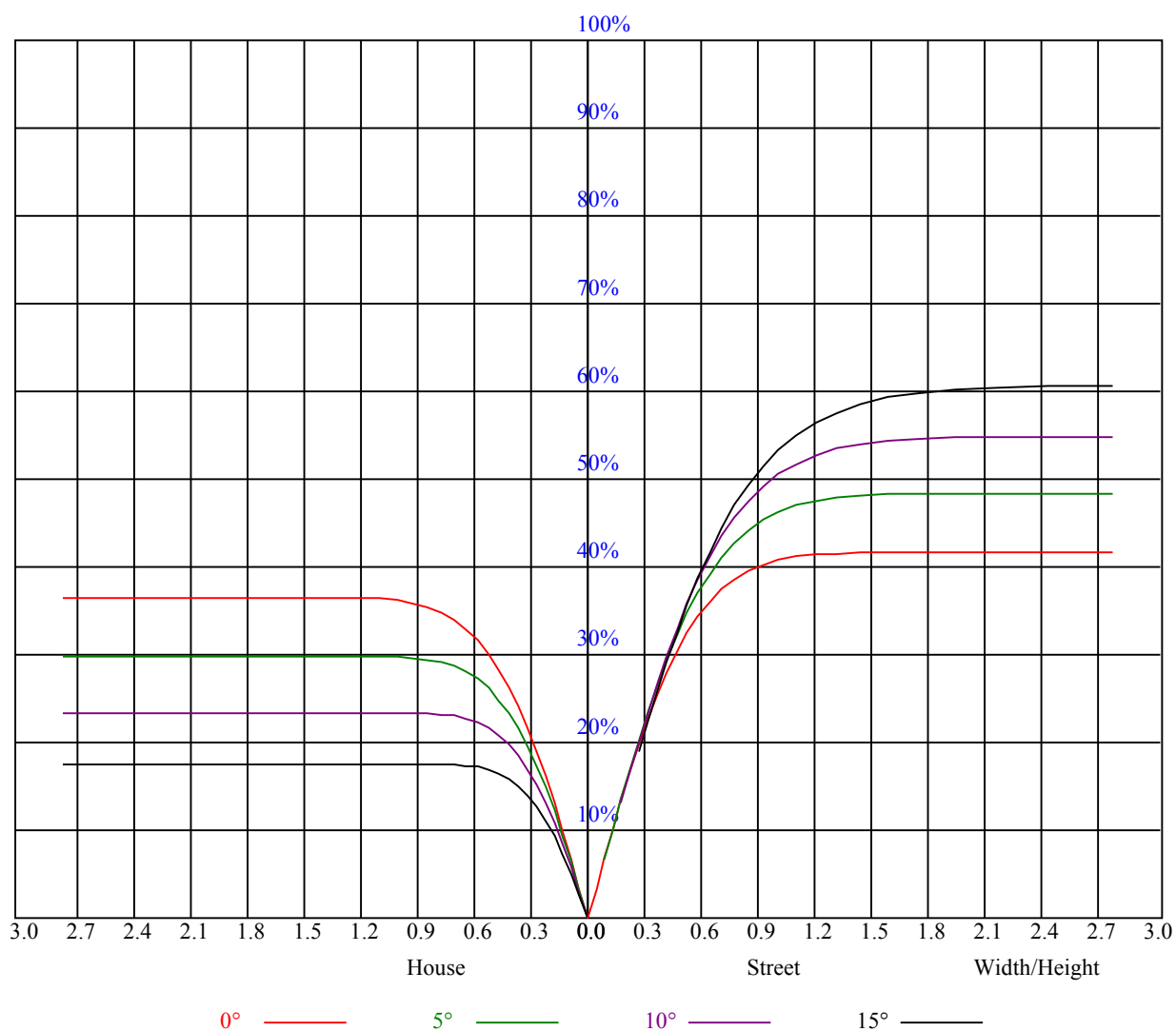


Illumination assessment according UGR											
Rf of Ceiling		70	70	50	50	30	70	70	50	50	30
Rf of Wall		50	30	50	30	30	50	30	50	30	30
Rf of Floor		20	20	20	20	20	20	20	20	20	20
Room dimensions		Viewed crosswise					Viewed endwise				
X	Y										
2H	2H	21.35	22.39	21.71	22.70	23.02	21.89	22.93	22.26	23.25	23.56
	3H	21.16	22.07	21.54	22.41	22.76	21.70	22.62	22.09	22.96	23.30
	4H	21.06	21.90	21.46	22.26	22.62	21.60	22.45	22.00	22.80	23.17
	6H	20.97	21.74	21.39	22.12	22.52	21.52	22.29	21.93	22.67	23.07
	8H	20.90	21.63	21.32	22.02	22.43	21.44	22.18	21.86	22.57	22.97
	12H	20.83	21.52	21.25	21.92	22.34	21.37	22.07	21.80	22.47	22.88
4H	2H	21.06	21.91	21.46	22.27	22.63	21.61	22.45	22.01	22.81	23.18
	3H	20.83	21.53	21.26	21.93	22.35	21.38	22.08	21.80	22.47	22.89
	4H	20.76	21.36	21.20	21.79	22.24	21.30	21.91	21.74	22.33	22.78
	6H	20.62	21.15	21.09	21.60	22.05	21.16	21.69	21.64	22.15	22.60
	8H	20.56	21.05	21.04	21.51	21.98	21.10	21.59	21.59	22.05	22.53
	12H	20.51	20.96	21.00	21.41	21.93	21.05	21.50	21.54	21.96	22.48
8H	4H	20.56	21.05	21.04	21.51	21.98	21.10	21.59	21.59	22.05	22.53
	6H	20.40	20.81	20.91	21.28	21.80	20.94	21.35	21.45	21.83	22.34
	8H	20.38	20.72	20.91	21.25	21.74	20.92	21.27	21.46	21.79	22.29
	12H	20.32	20.59	20.86	21.11	21.63	20.86	21.13	21.41	21.65	22.17
12H	4H	20.51	20.96	21.00	21.41	21.93	21.05	21.50	21.54	21.96	22.48
	6H	20.38	20.72	20.91	21.25	21.74	20.92	21.27	21.46	21.79	22.29
	8H	20.32	20.59	20.86	21.11	21.63	20.86	21.13	21.41	21.65	22.17
Variation with the observer position at spacings:											
S = 1.0H		2.8/-12.8					3.0/-15.3				
S = 1.5H		5.4/-26.4					5.5/-27.0				
S = 2.0H		7.5/-28.7					7.6/-28.9				
Standard tables:		BK0					BK0				
Uncorrected UGR		2.8					2.3				

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	0.93	0.93	0.93	0.91	0.91	0.91	0.87	0.87	0.87	0.83	0.83	0.83	0.80	0.80	0.80	0.78
1	0.86	0.84	0.83	0.85	0.83	0.81	0.82	0.80	0.79	0.79	0.78	0.76	0.76	0.75	0.74	0.73
2	0.80	0.77	0.74	0.79	0.76	0.73	0.76	0.74	0.72	0.74	0.72	0.70	0.72	0.70	0.69	0.67
3	0.74	0.70	0.67	0.73	0.70	0.67	0.71	0.68	0.65	0.69	0.67	0.64	0.68	0.65	0.63	0.62
4	0.69	0.65	0.61	0.68	0.64	0.61	0.67	0.63	0.60	0.65	0.62	0.59	0.63	0.61	0.59	0.57
5	0.64	0.60	0.56	0.64	0.59	0.56	0.62	0.58	0.55	0.61	0.58	0.55	0.60	0.57	0.54	0.53
6	0.60	0.55	0.52	0.59	0.55	0.52	0.58	0.54	0.51	0.57	0.54	0.51	0.56	0.53	0.50	0.49
7	0.56	0.51	0.48	0.56	0.51	0.48	0.55	0.51	0.47	0.54	0.50	0.47	0.53	0.49	0.47	0.46
8	0.53	0.48	0.44	0.52	0.48	0.44	0.51	0.47	0.44	0.51	0.47	0.44	0.50	0.46	0.44	0.43
9	0.50	0.45	0.41	0.49	0.45	0.41	0.48	0.44	0.41	0.48	0.44	0.41	0.47	0.44	0.41	0.40
10	0.47	0.42	0.39	0.46	0.42	0.39	0.46	0.41	0.39	0.45	0.41	0.38	0.44	0.41	0.38	0.37



Intensity data(cd)

Appendix Page: 16 Total:17

C/γ(°)	0.0	2.0	4.0	6.0	8.0	10.0	12.0	14.0	16.0
0.0	2514.10	2513.00	2495.10	2467.70	2429.00	2371.80	2301.50	2219.90	2123.60
22.5	2514.10	2510.20	2499.50	2472.50	2441.20	2391.20	2327.00	2246.30	2157.80
45.0	2514.10	2513.80	2501.90	2481.60	2446.30	2398.90	2338.30	2263.00	2181.60
67.5	2514.10	2515.70	2504.30	2485.70	2454.80	2409.60	2351.00	2281.00	2197.00
90.0	2514.10	2514.90	2503.20	2484.40	2451.20	2404.00	2345.10	2274.00	2188.30
112.5	2514.10	2521.40	2507.80	2486.00	2452.20	2403.90	2338.10	2265.90	2176.40
135.0	2514.10	2514.80	2499.90	2484.30	2445.40	2395.80	2327.80	2251.80	2154.10
157.5	2514.10	2509.70	2495.50	2463.20	2424.30	2372.50	2301.80	2220.10	2118.20
180.0	2514.10	2508.60	2490.60	2458.40	2416.80	2355.00	2280.60	2190.80	2092.60
202.5	2514.10	2498.70	2478.60	2445.10	2395.60	2327.40	2245.80	2153.80	2048.30
225.0	2514.10	2497.00	2476.10	2438.30	2386.20	2315.50	2233.70	2135.00	2026.80
247.5	2514.10	2496.20	2474.90	2434.50	2373.70	2305.30	2218.60	2119.50	2011.00
270.0	2514.10	2493.60	2470.60	2432.00	2376.60	2301.50	2218.60	2124.70	2009.00
292.5	2514.10	2506.30	2477.00	2439.00	2386.10	2314.40	2236.40	2142.40	2034.20
315.0	2514.10	2502.20	2479.70	2444.60	2395.50	2328.60	2245.60	2158.20	2053.60
337.5	2514.10	2507.40	2488.10	2453.40	2407.60	2355.30	2282.20	2194.40	2089.70
360.0	2514.10	2513.00	2495.10	2467.70	2429.00	2371.80	2301.50	2219.90	2123.60
C/γ(°)	18.0	20.0	22.0	24.0	26.0	28.0	30.0	32.0	34.0
0.0	2016.70	1903.60	1785.80	1671.30	1551.10	1433.30	1308.90	1179.30	1045.80
22.5	2055.60	1945.30	1834.50	1713.80	1597.90	1485.60	1364.10	1237.60	1105.90
45.0	2079.60	1971.20	1856.30	1742.90	1626.70	1513.20	1393.20	1264.00	1139.40
67.5	2104.20	1995.50	1886.30	1768.30	1647.50	1533.60	1413.80	1289.00	1159.10
90.0	2094.00	1986.70	1871.80	1755.40	1637.80	1519.70	1397.50	1274.20	1145.80
112.5	2078.70	1966.60	1847.90	1729.70	1612.60	1493.90	1376.30	1251.60	1125.00
135.0	2051.70	1939.60	1823.30	1704.30	1586.30	1471.30	1349.40	1221.40	1090.30
157.5	2011.00	1896.00	1776.60	1657.30	1540.00	1420.50	1295.90	1167.90	1033.50
180.0	1976.50	1858.10	1739.50	1624.90	1499.60	1377.70	1251.70	1119.50	981.20
202.5	1934.20	1811.60	1691.60	1571.60	1447.80	1322.00	1191.90	1059.90	919.97
225.0	1911.20	1790.70	1667.50	1545.60	1423.80	1299.30	1165.90	1031.90	891.10
247.5	1892.50	1771.80	1649.40	1528.00	1406.20	1278.40	1148.10	1009.90	871.68
270.0	1897.40	1778.50	1659.80	1541.90	1416.80	1291.70	1164.80	1029.50	887.60
292.5	1922.40	1803.30	1683.60	1562.50	1442.20	1318.60	1189.20	1055.40	916.31
315.0	1940.40	1823.90	1702.10	1587.20	1466.30	1342.40	1212.50	1082.50	946.00
337.5	1982.20	1861.90	1745.50	1628.00	1506.60	1390.70	1261.60	1133.90	992.47
360.0	2016.70	1903.60	1785.80	1671.30	1551.10	1433.30	1308.90	1179.30	1045.80
C/γ(°)	36.0	38.0	40.0	42.0	44.0	46.0	48.0	50.0	52.0
0.0	904.00	766.30	635.40	515.40	406.00	308.00	213.10	140.50	68.10
22.5	962.15	823.01	686.29	559.78	447.38	344.97	253.78	165.48	91.57
45.0	998.60	853.40	716.80	587.60	469.70	367.20	274.80	184.80	106.80
67.5	1021.70	878.38	742.09	610.70	491.47	380.58	288.88	197.24	116.90
90.0	1009.10	869.90	732.80	600.60	480.70	374.20	279.20	188.10	110.20
112.5	986.37	846.74	711.98	581.92	464.11	359.74	265.01	172.21	97.78
135.0	952.70	813.70	680.60	556.30	441.70	338.80	243.90	154.90	84.60
157.5	895.11	760.25	631.98	509.07	398.23	301.78	208.03	125.66	65.26
180.0	846.70	709.10	587.40	469.30	366.30	271.40	179.20	102.40	49.80
202.5	784.12	658.40	539.86	427.61	329.28	233.05	154.39	75.79	33.65
225.0	755.10	631.30	512.40	408.20	310.20	212.30	126.10	63.50	27.50
247.5	739.16	612.38	491.83	384.43	287.86	194.14	113.37	56.72	24.21
270.0	750.80	622.00	498.70	390.70	292.70	198.70	118.60	60.40	26.60
292.5	779.31	642.93	521.96	410.99	313.34	215.73	130.21	67.81	30.33
315.0	807.40	673.50	547.60	435.90	333.90	237.60	158.40	79.30	36.10
337.5	856.23	720.65	596.14	478.31	370.28	274.80	181.77	103.72	50.06
360.0	904.00	766.30	635.40	515.40	406.00	308.00	213.10	140.50	68.10

Intensity data(cd)

C/γ(°)	54.0	56.0	58.0	60.0	62.0	64.0	66.0	68.0	70.0
0.0	29.30	10.30	4.40	3.30	2.60	2.00	1.50	1.10	0.80
22.5	43.31	16.75	5.17	3.59	2.76	2.11	1.60	1.17	0.84
45.0	51.80	21.80	6.80	3.90	2.90	2.30	1.70	1.30	1.00
67.5	59.93	25.49	8.84	4.17	3.16	2.40	1.81	1.37	1.01
90.0	54.80	23.70	8.10	4.30	3.30	2.50	1.90	1.40	1.00
112.5	47.49	19.95	6.63	4.20	3.25	2.51	1.91	1.44	1.07
135.0	39.80	15.90	5.50	4.00	3.10	2.30	1.80	1.30	0.90
157.5	28.81	9.94	4.65	3.51	2.68	2.04	1.53	1.13	0.81
180.0	20.20	6.50	4.10	3.10	2.30	1.70	1.30	0.90	0.60
202.5	12.69	5.12	3.73	2.81	2.09	1.55	1.13	0.80	0.57
225.0	9.70	4.70	3.60	2.70	2.00	1.40	1.00	0.70	0.50
247.5	8.27	4.58	3.49	2.65	1.98	1.46	1.05	0.75	0.52
270.0	9.10	4.80	3.70	2.80	2.10	1.60	1.20	0.80	0.60
292.5	11.38	5.11	3.88	2.99	2.29	1.72	1.25	0.88	0.59
315.0	14.00	5.50	4.00	3.10	2.40	1.80	1.40	1.00	0.70
337.5	20.77	6.98	4.18	3.20	2.46	1.88	1.39	1.00	0.70
360.0	29.30	10.30	4.40	3.30	2.60	2.00	1.50	1.10	0.80

C/γ(°)	72.0	74.0	76.0	78.0	80.0	82.0	84.0	86.0	88.0
0.0	0.60	0.40	0.30	0.20	0.20	0.20	0.20	0.20	0.20
22.5	0.57	0.38	0.34	0.30	0.26	0.22	0.18	0.19	0.21
45.0	0.70	0.50	0.30	0.20	0.20	0.20	0.20	0.20	0.20
67.5	0.73	0.49	0.33	0.22	0.17	0.17	0.17	0.18	0.19
90.0	0.70	0.50	0.30	0.20	0.20	0.20	0.20	0.20	0.20
112.5	0.78	0.54	0.37	0.26	0.20	0.18	0.17	0.17	0.17
135.0	0.60	0.40	0.30	0.20	0.20	0.20	0.20	0.20	0.20
157.5	0.58	0.40	0.28	0.20	0.18	0.17	0.17	0.17	0.17
180.0	0.40	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20
202.5	0.39	0.27	0.20	0.18	0.17	0.16	0.16	0.16	0.17
225.0	0.30	0.30	0.30	0.20	0.20	0.20	0.20	0.20	0.20
247.5	0.35	0.24	0.18	0.17	0.16	0.16	0.16	0.16	0.20
270.0	0.40	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20
292.5	0.38	0.34	0.30	0.26	0.22	0.18	0.20	0.24	0.28
315.0	0.50	0.30	0.20	0.20	0.20	0.20	0.20	0.20	0.20
337.5	0.48	0.30	0.18	0.17	0.17	0.17	0.18	0.21	0.24
360.0	0.60	0.40	0.30	0.20	0.20	0.20	0.20	0.20	0.20

C/γ(°)	90.0
0.0	0.20
22.5	0.23
45.0	0.20
67.5	0.19
90.0	0.20
112.5	0.17
135.0	0.20
157.5	0.19
180.0	0.20
202.5	0.23
225.0	0.30
247.5	0.26
270.0	0.30
292.5	0.33
315.0	0.30
337.5	0.29
360.0	0.20