Luminaire Property

Luminaire: RH-CL2606 15W 4000K

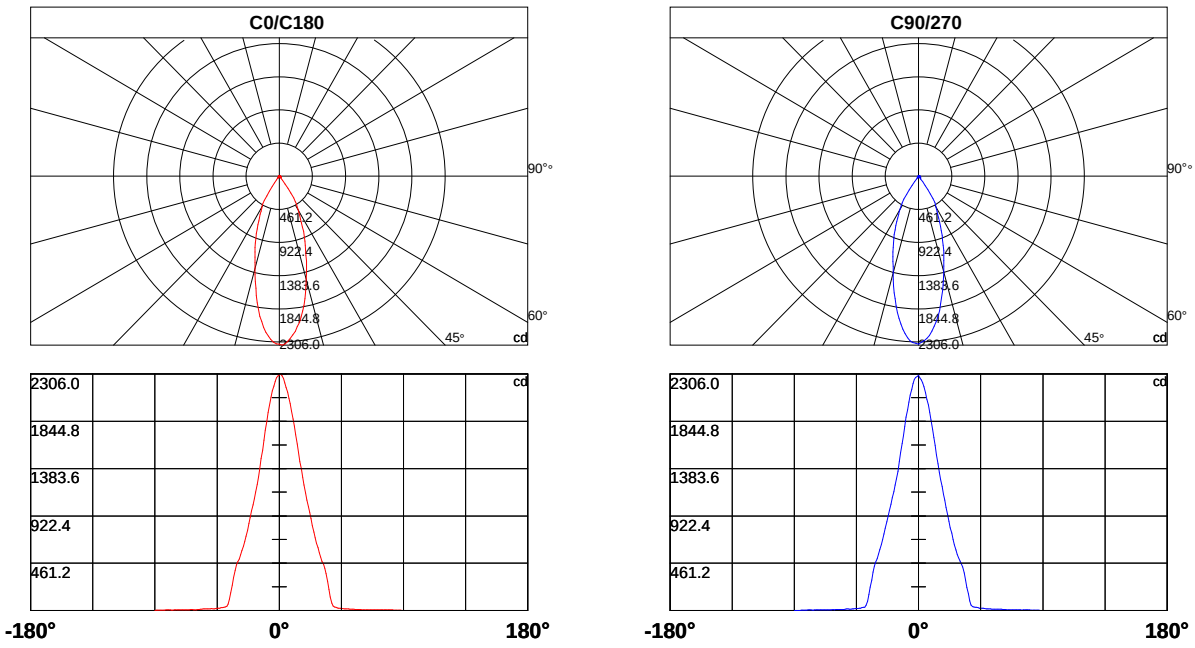
Report NO.:
Test NO.:
Lamp:
Sum Lumens: 1091.41 lm
Number of Lamps: 1
Diameter: 120mm
Length: 72mm
Photometric Type: Type C

Voltage: 220.2 V
Current: 0.069 A
Power: 15.0 W
Power Factor: 0.978
Ballast Type:
Width: 120mm
Height: mm
Remark:

Photometric Results

Lumens: 1091.41 lm
Effective luminous flux: 1019.01 lm
Efficiency: 72.7607 lm/W
Central Intensity: 2295.81cd
Maximum Intensity: 2305.983cd
Beam Angle(10%): Left: -34.2 Right:35.7

Angle of maximum intensity: C:0.0 G:1.0
Half Peak Side Angle(50%): Left: -17.0 Right:18.9
Light Out Rate(LOR) : 100.00%
Up Flux Rate: 0.0%
Down Flux Rate: 100.0%



Photometric Data Table [cd]

C\G	0.0	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0
0.0	2295.8	2306.0	2290.0	2262.8	2218.2	2176.5	2128.8	2068.8	2015.1	1944.8
45.0	2295.8	2267.5	2248.0	2220.1	2180.4	2122.7	2059.7	2002.2	1931.5	1856.4
90.0	2295.8	2267.5	2248.0	2220.1	2180.4	2122.7	2059.7	2002.2	1931.5	1856.4
135.0	2295.8	2289.4	2268.6	2232.4	2188.6	2140.9	2077.6	1998.7	1931.9	1845.9
180.0	2295.8	2289.4	2268.6	2232.4	2188.6	2140.9	2077.6	1998.7	1931.9	1845.9
225.0	2295.8	2282.2	2273.9	2253.6	2213.7	2156.1	2100.4	2031.1	1958.6	1885.2
270.0	2295.8	2282.2	2273.9	2253.6	2213.7	2156.1	2100.4	2031.1	1958.6	1885.2
315.0	2295.8	2306.0	2290.0	2262.8	2218.2	2176.5	2128.8	2068.8	2015.1	1944.8
360.0	2295.8	2306.0	2290.0	2262.8	2218.2	2176.5	2128.8	2068.8	2015.1	1944.8

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	1867.8	1798.9	1712.8	1622.5	1538.8	1452.7	1380.2	1298.8	1222.1	1147.0
45.0	1767.8	1686.0	1610.2	1517.9	1430.9	1348.7	1276.3	1206.2	1133.1	1077.6
90.0	1767.8	1686.0	1610.2	1517.9	1430.9	1348.7	1276.3	1206.2	1133.1	1077.6
135.0	1756.5	1659.7	1564.1	1480.7	1386.1	1301.2	1228.2	1155.7	1088.4	1031.5
180.0	1756.5	1659.7	1564.1	1480.7	1386.1	1301.2	1228.2	1155.7	1088.4	1031.5
225.0	1793.7	1703.5	1628.5	1539.5	1450.0	1359.0	1282.1	1222.1	1156.9	1097.7
270.0	1793.7	1703.5	1628.5	1539.5	1450.0	1359.0	1282.1	1222.1	1156.9	1097.7
315.0	1867.8	1798.9	1712.8	1622.5	1538.8	1452.7	1380.2	1298.8	1222.1	1147.0
360.0	1867.8	1798.9	1712.8	1622.5	1538.8	1452.7	1380.2	1298.8	1222.1	1147.0

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	1074.9	1009.7	955.5	894.8	828.2	765.5	708.1	655.1	611.9	563.2
45.0	1004.4	933.9	871.0	806.4	753.8	694.6	638.1	589.5	546.0	513.1
90.0	1004.4	933.9	871.0	806.4	753.8	694.6	638.1	589.5	546.0	513.1
135.0	969.6	907.0	849.6	783.4	724.2	674.1	628.2	582.5	543.1	503.0
180.0	969.6	907.0	849.6	783.4	724.2	674.1	628.2	582.5	543.1	503.0
225.0	1035.8	973.9	918.1	865.0	802.3	744.3	691.3	641.5	593.3	549.5
270.0	1035.8	973.9	918.1	865.0	802.3	744.3	691.3	641.5	593.3	549.5
315.0	1074.9	1009.7	955.5	894.8	828.2	765.5	708.1	655.1	611.9	563.2
360.0	1074.9	1009.7	955.5	894.8	828.2	765.5	708.1	655.1	611.9	563.2

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	519.7	480.0	453.5	412.8	360.2	281.2	206.4	132.8	71.7	43.6
45.0	480.4	453.3	424.1	366.3	296.2	224.3	160.5	92.9	52.2	37.6
90.0	480.4	453.3	424.1	366.3	296.2	224.3	160.5	92.9	52.2	37.6
135.0	474.6	444.6	389.8	320.9	245.0	170.2	110.4	62.5	39.7	34.1
180.0	474.6	444.6	389.8	320.9	245.0	170.2	110.4	62.5	39.7	34.1
225.0	506.9	470.9	432.1	373.9	297.4	228.6	156.0	90.6	49.1	32.5
270.0	506.9	470.9	432.1	373.9	297.4	228.6	156.0	90.6	49.1	32.5
315.0	519.7	480.0	453.5	412.8	360.2	281.2	206.4	132.8	71.7	43.6
360.0	519.7	480.0	453.5	412.8	360.2	281.2	206.4	132.8	71.7	43.6

Photometric Data Table [cd]

C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	35.2	30.6	24.9	22.4	22.2	18.7	17.7	16.7	15.5	14.4
45.0	32.9	32.3	29.4	26.7	21.6	19.9	21.6	20.3	19.5	15.8
90.0	32.9	32.3	29.4	26.7	21.6	19.9	21.6	20.3	19.5	15.8
135.0	32.5	26.9	26.7	21.2	20.3	21.2	17.7	16.9	15.8	17.5
180.0	32.5	26.9	26.7	21.2	20.3	21.2	17.7	16.9	15.8	17.5
225.0	31.0	27.4	21.6	21.6	17.3	18.9	17.9	14.8	13.9	12.9
270.0	31.0	27.4	21.6	21.6	17.3	18.9	17.9	14.8	13.9	12.9
315.0	35.2	30.6	24.9	22.4	22.2	18.7	17.7	16.7	15.5	14.4
360.0	35.2	30.6	24.9	22.4	22.2	18.7	17.7	16.7	15.5	14.4

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	14.0	13.1	12.3	11.9	11.1	10.3	9.8	9.3	8.7	8.2
45.0	15.4	14.4	13.3	13.1	12.1	11.7	10.9	12.3	11.8	11.3
90.0	15.4	14.4	13.3	13.1	12.1	11.7	10.9	12.3	11.8	11.3
135.0	14.4	16.1	15.3	14.6	14.1	13.5	12.6	11.7	9.3	8.2
180.0	14.4	16.1	15.3	14.6	14.1	13.5	12.6	11.7	9.3	8.2
225.0	12.3	14.2	13.5	12.7	10.1	9.4	8.6	9.0	10.3	9.5
270.0	12.3	14.2	13.5	12.7	10.1	9.4	8.6	9.0	10.3	9.5
315.0	14.0	13.1	12.3	11.9	11.1	10.3	9.8	9.3	8.7	8.2
360.0	14.0	13.1	12.3	11.9	11.1	10.3	9.8	9.3	8.7	8.2

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	7.4	7.2	6.7	6.2	7.0	7.8	7.2	7.2	5.0	5.0
45.0	10.7	10.3	9.9	8.7	7.6	6.8	6.0	5.8	5.6	5.6
90.0	10.7	10.3	9.9	8.7	7.6	6.8	6.0	5.8	5.6	5.6
135.0	7.8	7.2	7.4	8.1	8.8	8.0	8.0	5.6	5.6	5.4
180.0	7.8	7.2	7.4	8.1	8.8	8.0	8.0	5.6	5.6	5.4
225.0	8.6	6.8	8.2	8.0	7.6	7.2	7.0	6.8	4.7	5.3
270.0	8.6	6.8	8.2	8.0	7.6	7.2	7.0	6.8	4.7	5.3
315.0	7.4	7.2	6.7	6.2	7.0	7.8	7.2	7.2	5.0	5.0
360.0	7.4	7.2	6.7	6.2	7.0	7.8	7.2	7.2	5.0	5.0

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	6.8	6.2	6.0	5.8	6.0	5.8	5.6	5.6	5.4	5.2
45.0	7.2	7.4	7.0	6.6	4.7	4.1	5.0	6.0	6.2	6.0
90.0	7.2	7.4	7.0	6.6	4.7	4.1	5.0	6.0	6.2	6.0
135.0	5.2	4.7	4.5	6.0	6.2	5.8	5.6	3.5	3.5	5.2
180.0	5.2	4.7	4.5	6.0	6.2	5.8	5.6	3.5	3.5	5.2
225.0	6.0	6.0	5.6	5.2	5.2	5.2	3.3	4.0	4.7	4.5
270.0	6.0	6.0	5.6	5.2	5.2	5.2	3.3	4.0	4.7	4.5
315.0	6.8	6.2	6.0	5.8	6.0	5.8	5.6	5.6	5.4	5.2
360.0	6.8	6.2	6.0	5.8	6.0	5.8	5.6	5.6	5.4	5.2

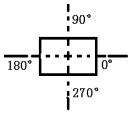
Photometric Data Table [cd]

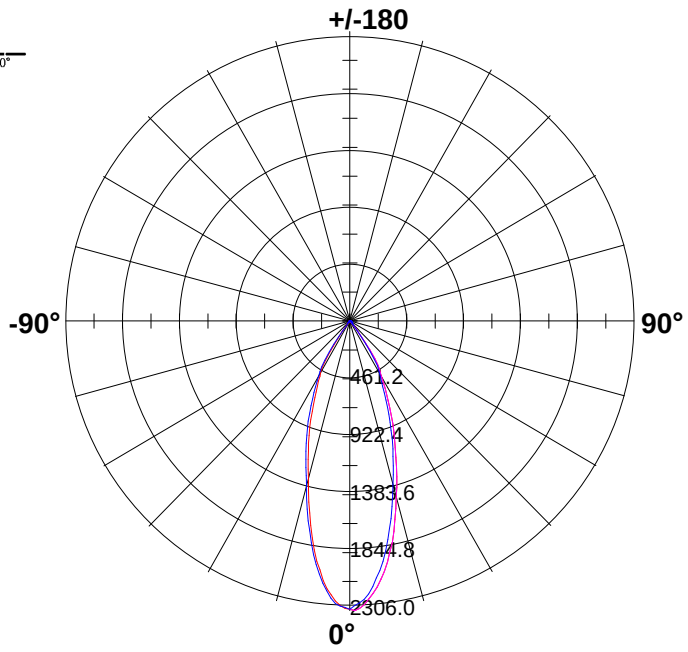
C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	5.2	5.0	4.7	3.7	2.7	2.7	2.7	2.4	2.0	0.4
45.0	5.8	3.9	3.3	3.5	3.3	3.5	3.7	1.8	0.2	0.2
90.0	5.8	3.9	3.3	3.5	3.3	3.5	3.7	1.8	0.2	0.2
135.0	5.2	5.1	5.0	2.9	2.7	2.9	3.1	3.3	2.5	1.6
180.0	5.2	5.1	5.0	2.9	2.7	2.9	3.1	3.3	2.5	1.6
225.0	4.3	2.5	2.5	2.5	2.5	2.5	1.4	1.0	0.0	0.0
270.0	4.3	2.5	2.5	2.5	2.5	2.5	1.4	1.0	0.0	0.0
315.0	5.2	5.0	4.7	3.7	2.7	2.7	2.7	2.4	2.0	0.4
360.0	5.2	5.0	4.7	3.7	2.7	2.7	2.7	2.4	2.0	0.4

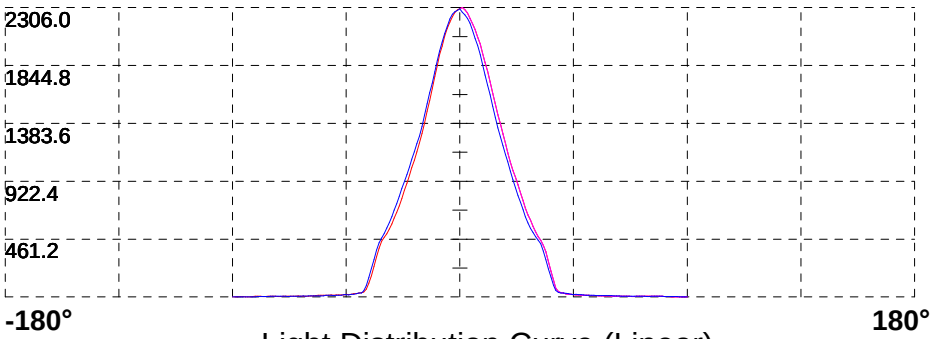
C\G	90.0
0.0	0.0
45.0	1.4
90.0	1.4
135.0	0.0
180.0	0.0
225.0	0.0
270.0	0.0
315.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

Luminaire



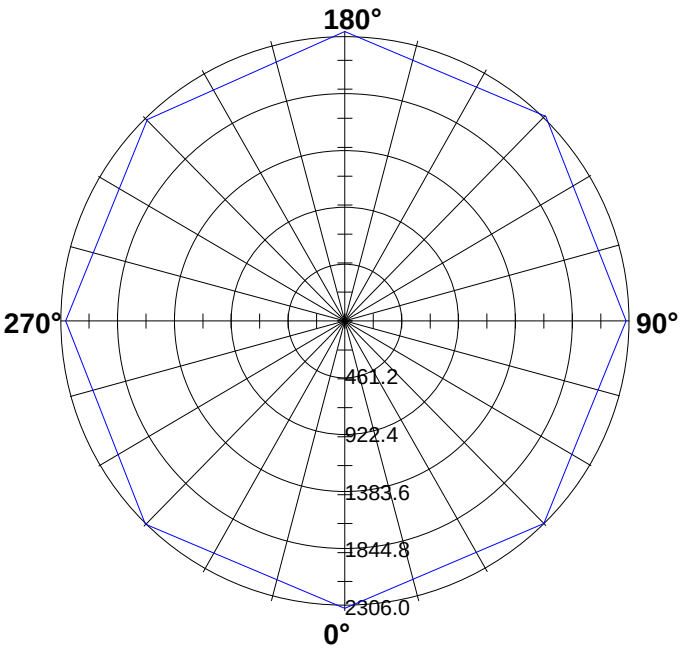


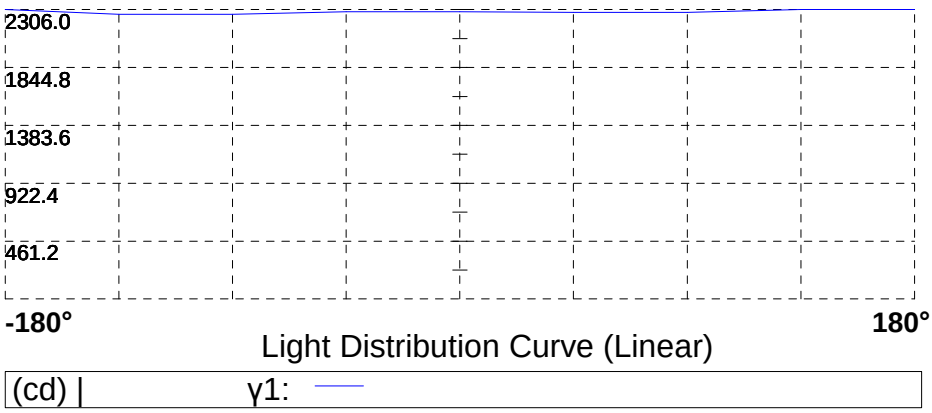


Light Distribution Curve (Linear)

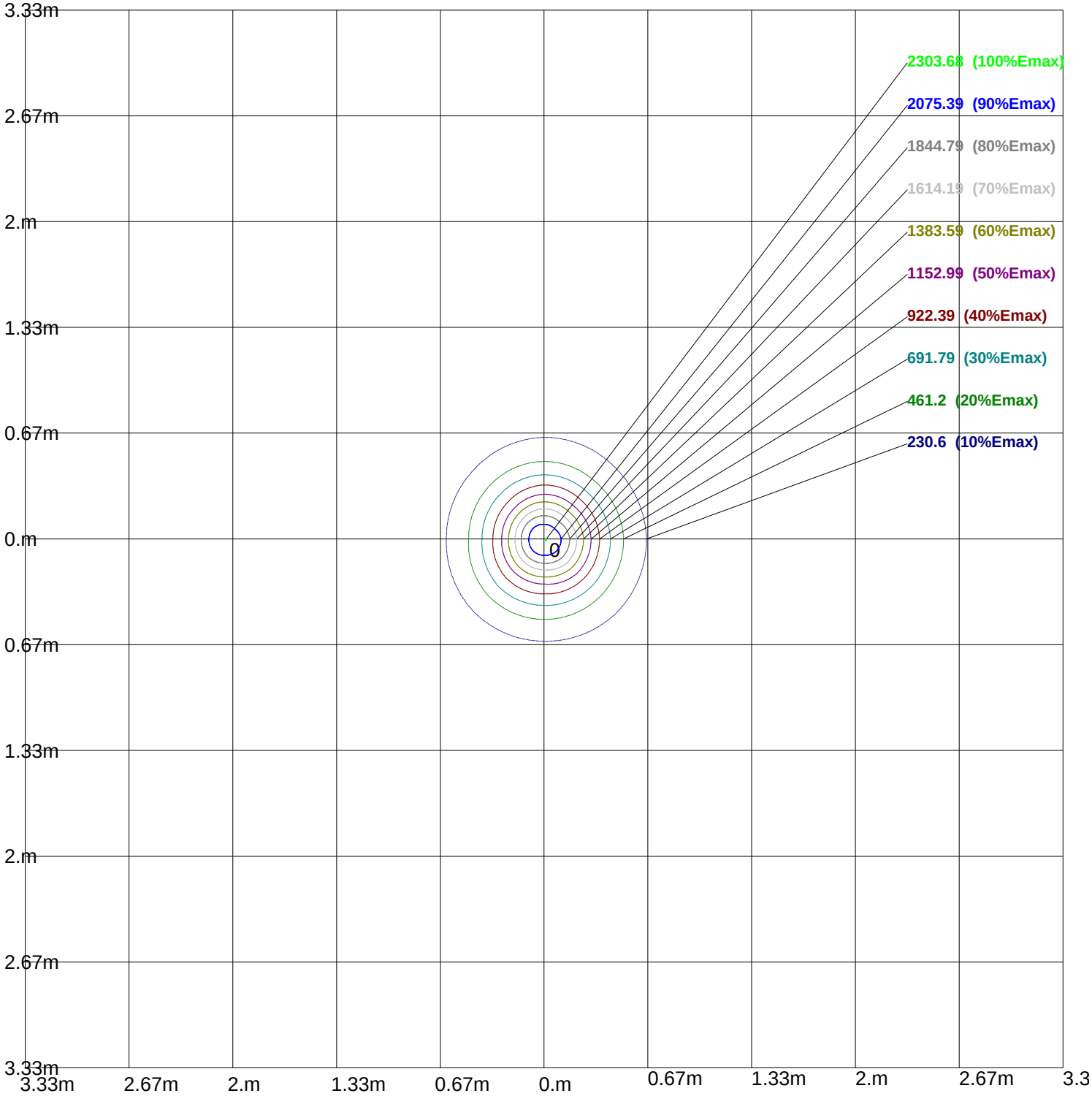
(cd) | C0/C180: C90/C270: C0:

Max Plane Light Distribution Curve [Unit: cd]





Iso-Lux[lx]



Height: 1 m
Max Illuminance : 2305.98lx

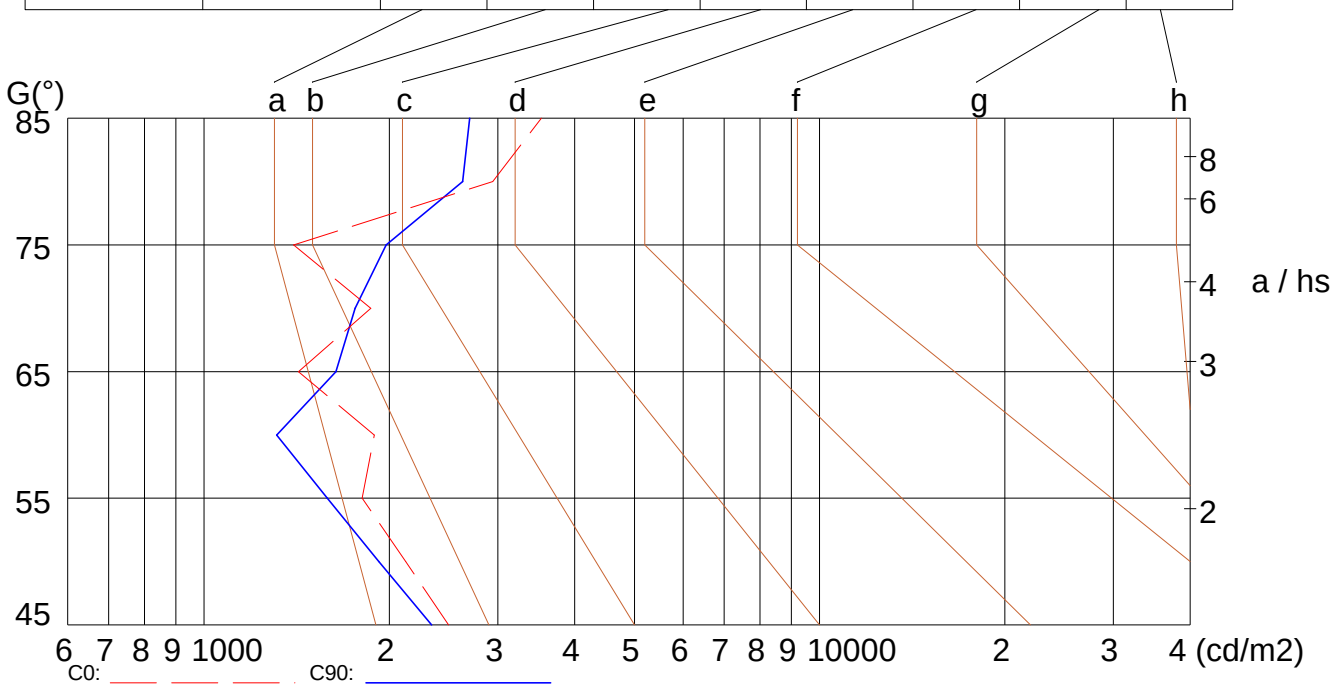
Luminance Limitting Curve

Diameter: 120mm
Length: 72mm
Width: 120mm
Height: mm

(cd/m2)

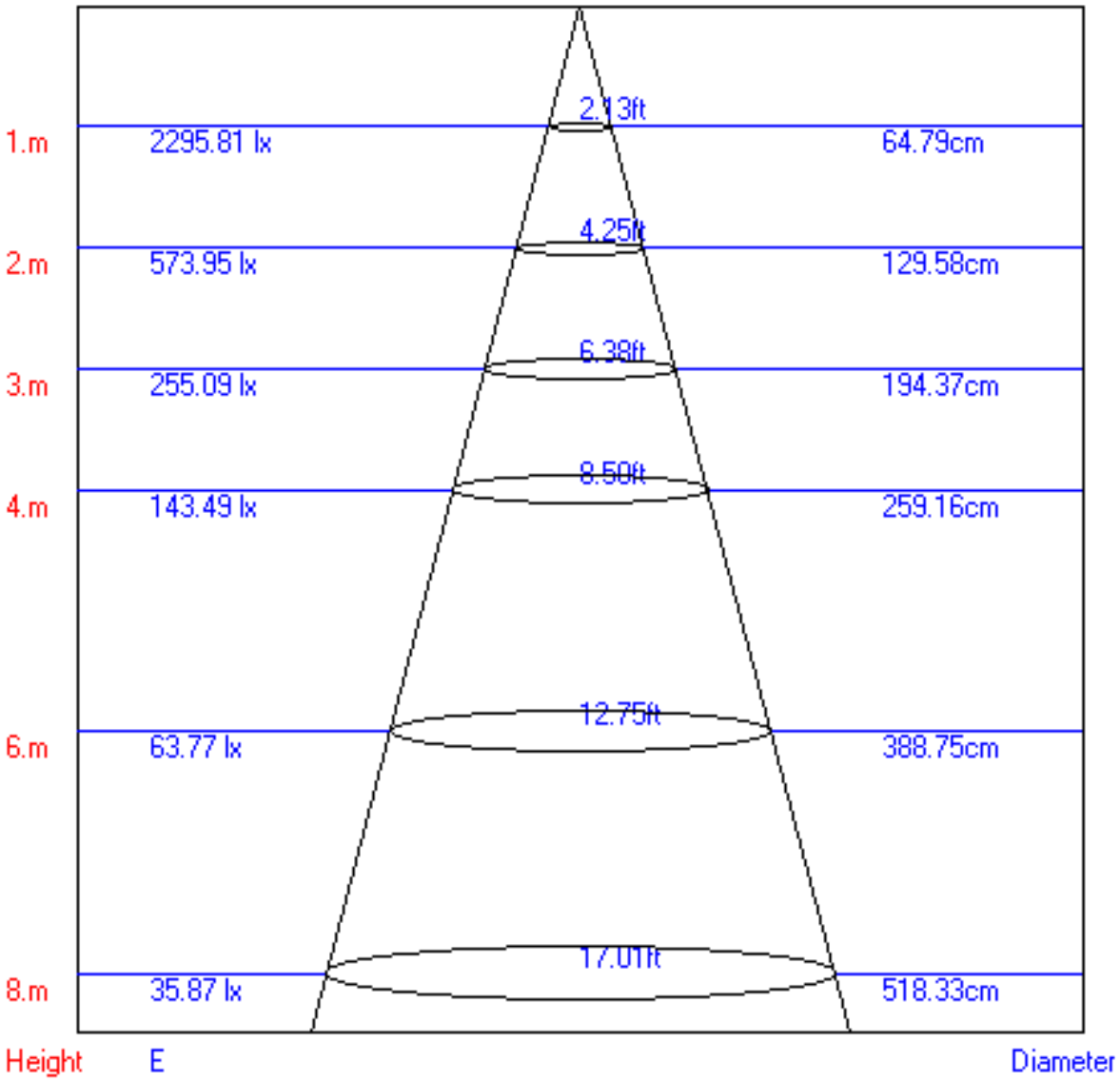
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	2495	2126	1806	1891	1424	1865	1398	2944	3530
C90	2342	1921	1585	1312	1638	1759	1975	2631	2699

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



Lum. Limitting Curve (C0/C90)

Lux-Distance Curve

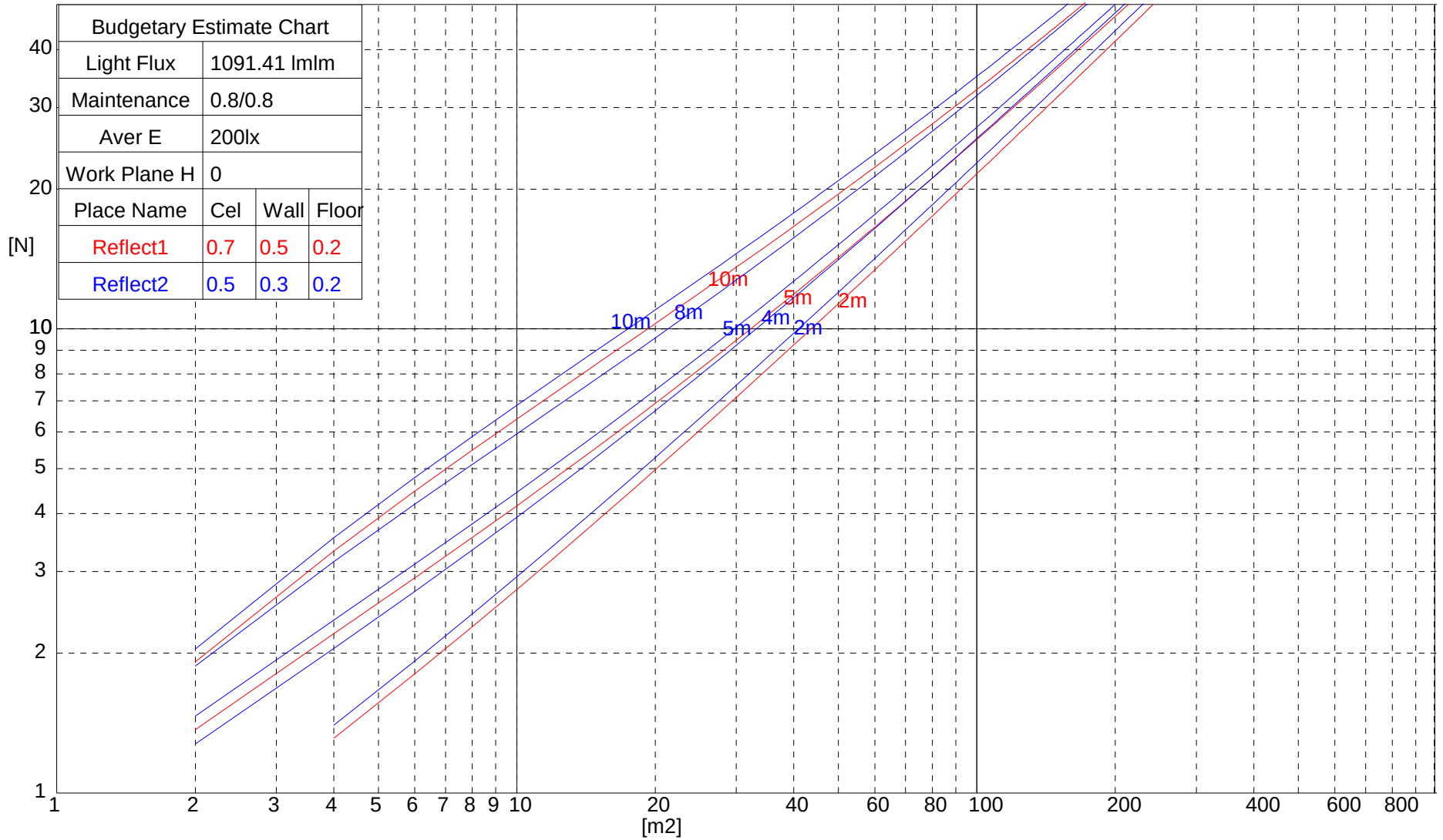


Beam Angle:35.90°

Utilization Coefficient Table

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	COEFFCIENTS OF UTILIZATION FOR RHOFC=20															
0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1	1.15	1.14	1.13	1.13	1.12	1.11	1.09	1.08	1.07	1.03	1.02	1.01	0.96	0.95	0.94	0.88
2	1.08	1.07	1.07	1.07	1.05	1.04	1.03	1.01	1.00	0.98	0.96	0.94	0.92	0.90	0.88	0.83
3	1.03	1.01	1.00	1.01	0.99	0.98	0.98	0.95	0.94	0.93	0.91	0.89	0.88	0.85	0.83	0.79
4	0.97	0.96	0.95	0.96	0.94	0.93	0.93	0.90	0.88	0.89	0.86	0.84	0.85	0.81	0.79	0.74
5	0.92	0.91	0.90	0.91	0.89	0.88	0.88	0.86	0.84	0.85	0.82	0.79	0.81	0.77	0.74	0.71
6	0.87	0.86	0.85	0.86	0.85	0.83	0.84	0.81	0.79	0.81	0.78	0.75	0.78	0.74	0.71	0.67
7	0.83	0.82	0.81	0.82	0.80	0.79	0.80	0.77	0.75	0.77	0.74	0.71	0.74	0.70	0.67	0.64
8	0.79	0.78	0.77	0.78	0.77	0.75	0.76	0.74	0.72	0.74	0.71	0.68	0.71	0.67	0.64	0.61
9	0.76	0.74	0.74	0.75	0.73	0.72	0.73	0.70	0.68	0.71	0.67	0.65	0.69	0.64	0.61	0.58
10	0.72	0.71	0.70	0.72	0.70	0.69	0.70	0.67	0.65	0.68	0.64	0.62	0.66	0.62	0.58	0.55

Budgetary Estimate Chart			
Light Flux	1091.41 lmlm		
Maintenance	0.8/0.8		
Aver E	200lx		
Work Plane H	0		
Place Name	Cel	Wall	Floor
Reflect1	0.7	0.5	0.2
Reflect2	0.5	0.3	0.2



UGR Glare Index

Ceiling		70	70	50	50	30	70	70	50	50	30
Wall		50	30	50	30	30	50	30	50	30	30
Floor		20	20	20	20	20	20	20	20	20	20
Room Size		Weft to light axis direction of observation					Direction of light axis parallel observation				
X	Y										
2H	2H	13.1	14.1	13.4	14.1	14.5	13.0	14.1	13.2	14.1	14.5
	3H	14.4	15.4	14.8	15.7	15.9	14.4	15.4	14.6	15.9	16.0
	4H	15.0	16.1	15.4	16.5	16.6	15.1	16.0	15.3	16.5	16.7
	6H	15.5	16.4	15.9	16.8	16.9	15.4	16.3	15.8	16.7	17.0
	8H	15.9	16.8	16.1	16.8	17.1	15.8	16.6	15.9	16.9	17.2
	12H	16.0	16.7	16.1	17.1	17.3	15.8	16.5	16.0	17.0	17.4
4H	2H	13.9	14.8	14.1	15.0	15.2	13.9	14.7	14.0	14.9	15.1
	3H	15.6	16.3	15.8	16.3	16.6	15.4	16.2	15.5	16.3	16.7
	4H	16.2	16.8	16.4	16.9	17.4	16.0	16.7	16.3	17.1	17.3
	6H	16.7	17.3	17.1	17.5	17.8	16.7	17.2	16.9	17.5	17.8
	8H	16.8	17.5	17.3	17.7	18.1	16.9	17.4	17.1	17.7	18.0
	12H	17.1	17.6	17.5	18.0	18.1	17.1	17.5	17.4	17.9	18.2
8H	4H	16.5	17.0	16.7	17.2	17.7	16.3	16.9	16.6	17.2	17.6
	6H	17.2	17.6	17.5	18.0	18.3	17.0	17.6	17.5	17.9	18.3
	8H	17.5	18.0	17.9	18.2	18.5	17.4	17.7	17.7	18.2	18.6
	12H	17.7	18.2	18.1	18.4	18.9	17.7	18.1	18.0	18.3	18.7
12H	4H	16.5	17.0	16.8	17.3	17.7	16.3	16.9	16.6	17.4	17.7
	6H	17.4	17.7	17.6	18.0	18.3	17.2	17.6	17.6	17.9	18.3
	8H	17.6	18.1	18.0	18.4	18.7	17.6	18.0	17.9	18.3	18.8