Luminaire Property

Luminaire: RH-PL3060 24W 3000K

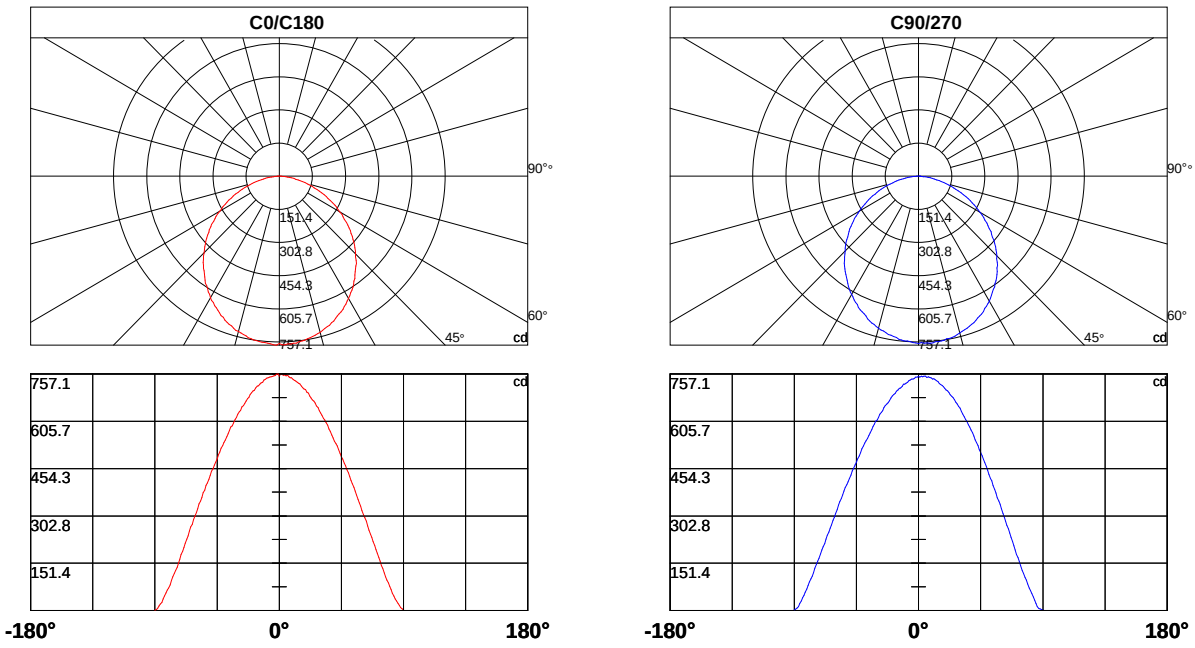
Report NO.:
Test NO.:
Lamp:
Sum Lumens: 2090.99 lm
Number of Lamps: 1
Diameter: mm
Length: 595mm
Photometric Type: Type C

Voltage: 219.8 V
Current: 0.113 A
Power: 23.9 W
Power Factor: 0.956
Ballast Type:
Width: 295mm
Height: mm
Remark:

Photometric Results

Lumens: 2090.99 lm
Effective luminous flux: 2056.88 lm
Efficiency: 87.4891 lm/W
Central Intensity: 750.461cd
Maximum Intensity: 757.073cd
Beam Angle(10%): Left: -80.1 Right:79.6

Angle of maximum intensity: C:135.0 G:1.0
Half Peak Side Angle(50%): Left: -55.3 Right:54.8
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	750.5	756.9	755.6	752.8	754.2	751.1	752.6	748.0	745.2	745.4
45.0	750.5	746.6	749.9	747.8	750.3	749.7	746.4	747.8	746.2	745.2
90.0	750.5	746.6	749.9	747.8	750.3	749.7	746.4	747.8	746.2	745.2
135.0	750.5	757.1	756.1	752.4	751.1	749.0	748.6	746.6	744.5	744.1
180.0	750.5	757.1	756.1	752.4	751.1	749.0	748.6	746.6	744.5	744.1
225.0	750.5	747.4	746.6	742.5	741.1	740.7	738.2	736.1	730.4	727.5
270.0	750.5	747.4	746.6	742.5	741.1	740.7	738.2	736.1	730.4	727.5
315.0	750.5	756.9	755.6	752.8	754.2	751.1	752.6	748.0	745.2	745.4
360.0	750.5	756.9	755.6	752.8	754.2	751.1	752.6	748.0	745.2	745.4

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	740.3	737.1	734.9	731.2	727.5	725.4	718.4	713.5	709.6	706.7
45.0	740.7	741.5	739.0	735.7	732.6	726.9	723.2	720.3	716.6	711.3
90.0	740.7	741.5	739.0	735.7	732.6	726.9	723.2	720.3	716.6	711.3
135.0	740.5	737.5	731.2	728.7	724.6	720.1	718.4	712.7	705.5	703.0
180.0	740.5	737.5	731.2	728.7	724.6	720.1	718.4	712.7	705.5	703.0
225.0	724.6	724.0	717.0	712.5	711.1	706.1	701.8	694.8	692.1	686.2
270.0	724.6	724.0	717.0	712.5	711.1	706.1	701.8	694.8	692.1	686.2
315.0	740.3	737.1	734.9	731.2	727.5	725.4	718.4	713.5	709.6	706.7
360.0	740.3	737.1	734.9	731.2	727.5	725.4	718.4	713.5	709.6	706.7

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	699.3	695.6	686.8	680.2	674.5	670.3	663.8	654.5	649.4	639.5
45.0	706.3	703.2	697.9	690.5	685.8	682.1	675.1	665.6	660.7	653.5
90.0	706.3	703.2	697.9	690.5	685.8	682.1	675.1	665.6	660.7	653.5
135.0	697.3	691.7	682.7	679.0	670.5	663.0	656.0	651.4	640.9	636.4
180.0	697.3	691.7	682.7	679.0	670.5	663.0	656.0	651.4	640.9	636.4
225.0	680.4	671.6	665.4	660.5	656.4	649.6	639.7	634.6	628.4	618.3
270.0	680.4	671.6	665.4	660.5	656.4	649.6	639.7	634.6	628.4	618.3
315.0	699.3	695.6	686.8	680.2	674.5	670.3	663.8	654.5	649.4	639.5
360.0	699.3	695.6	686.8	680.2	674.5	670.3	663.8	654.5	649.4	639.5

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	631.9	625.5	615.3	609.1	601.5	592.9	580.9	574.2	561.6	552.1
45.0	647.1	637.0	629.0	619.8	611.3	606.0	594.5	587.5	578.0	568.4
90.0	647.1	637.0	629.0	619.8	611.3	606.0	594.5	587.5	578.0	568.4
135.0	628.6	617.7	611.5	600.8	591.6	587.1	575.6	565.5	556.5	545.6
180.0	628.6	617.7	611.5	600.8	591.6	587.1	575.6	565.5	556.5	545.6
225.0	610.3	605.6	597.0	588.7	579.3	569.2	560.6	551.7	542.9	535.7
270.0	610.3	605.6	597.0	588.7	579.3	569.2	560.6	551.7	542.9	535.7
315.0	631.9	625.5	615.3	609.1	601.5	592.9	580.9	574.2	561.6	552.1
360.0	631.9	625.5	615.3	609.1	601.5	592.9	580.9	574.2	561.6	552.1

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	542.3	534.1	526.3	515.6	502.6	491.9	484.5	471.6	462.7	451.4
45.0	558.3	546.4	538.6	527.7	514.3	506.1	495.2	483.3	473.2	461.1
90.0	558.3	546.4	538.6	527.7	514.3	506.1	495.2	483.3	473.2	461.1
135.0	538.6	527.9	520.1	507.5	498.9	485.4	474.8	465.2	454.3	445.2
180.0	538.6	527.9	520.1	507.5	498.9	485.4	474.8	465.2	454.3	445.2
225.0	527.1	517.4	504.9	495.4	485.4	474.8	465.6	455.3	447.1	433.5
270.0	527.1	517.4	504.9	495.4	485.4	474.8	465.6	455.3	447.1	433.5
315.0	542.3	534.1	526.3	515.6	502.6	491.9	484.5	471.6	462.7	451.4
360.0	542.3	534.1	526.3	515.6	502.6	491.9	484.5	471.6	462.7	451.4

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	440.1	428.4	415.8	406.2	394.7	382.3	370.0	355.0	343.9	334.4
45.0	449.2	435.2	422.4	414.8	400.0	387.1	376.6	361.0	350.5	340.0
90.0	449.2	435.2	422.4	414.8	400.0	387.1	376.6	361.0	350.5	340.0
135.0	432.1	419.8	407.9	400.2	385.6	376.8	361.4	350.1	341.4	326.2
180.0	432.1	419.8	407.9	400.2	385.6	376.8	361.4	350.1	341.4	326.2
225.0	422.4	411.7	402.5	393.6	381.9	370.2	358.1	348.7	336.9	322.5
270.0	422.4	411.7	402.5	393.6	381.9	370.2	358.1	348.7	336.9	322.5
315.0	440.1	428.4	415.8	406.2	394.7	382.3	370.0	355.0	343.9	334.4
360.0	440.1	428.4	415.8	406.2	394.7	382.3	370.0	355.0	343.9	334.4

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	319.3	306.5	296.6	285.9	270.1	257.1	244.0	233.5	220.6	207.8
45.0	325.8	310.6	299.5	285.7	272.8	260.9	247.9	234.3	220.8	207.2
90.0	325.8	310.6	299.5	285.7	272.8	260.9	247.9	234.3	220.8	207.2
135.0	313.9	301.0	290.9	275.7	267.2	254.3	238.6	228.2	215.0	202.3
180.0	313.9	301.0	290.9	275.7	267.2	254.3	238.6	228.2	215.0	202.3
225.0	310.4	298.5	288.8	273.8	263.7	251.2	241.3	229.0	213.8	203.9
270.0	310.4	298.5	288.8	273.8	263.7	251.2	241.3	229.0	213.8	203.9
315.0	319.3	306.5	296.6	285.9	270.1	257.1	244.0	233.5	220.6	207.8
360.0	319.3	306.5	296.6	285.9	270.1	257.1	244.0	233.5	220.6	207.8

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	194.5	183.6	168.3	158.1	142.9	134.9	120.2	108.1	96.8	88.2
45.0	193.2	179.6	169.4	156.6	143.7	128.5	118.8	105.9	96.6	84.7
90.0	193.2	179.6	169.4	156.6	143.7	128.5	118.8	105.9	96.6	84.7
135.0	189.3	179.2	163.4	151.3	138.7	128.3	118.6	106.9	96.0	82.0
180.0	189.3	179.2	163.4	151.3	138.7	128.3	118.6	106.9	96.0	82.0
225.0	193.7	181.7	166.9	157.7	147.2	135.3	121.3	109.8	101.5	90.8
270.0	193.7	181.7	166.9	157.7	147.2	135.3	121.3	109.8	101.5	90.8
315.0	194.5	183.6	168.3	158.1	142.9	134.9	120.2	108.1	96.8	88.2
360.0	194.5	183.6	168.3	158.1	142.9	134.9	120.2	108.1	96.8	88.2

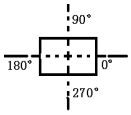
Photometric Data Table [cd]

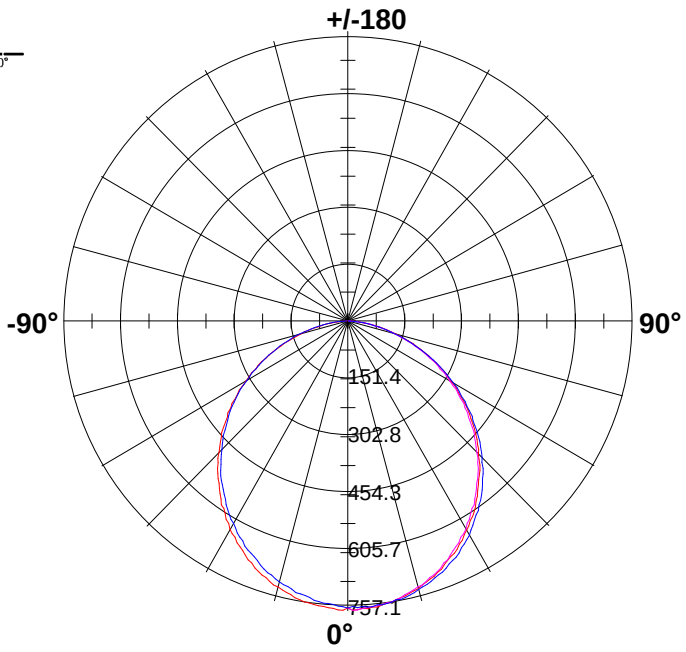
C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	76.9	67.8	55.3	45.7	36.8	30.6	22.4	16.1	9.0	5.0
45.0	71.5	63.3	54.3	43.4	32.7	22.8	12.3	6.0	4.7	2.9
90.0	71.5	63.3	54.3	43.4	32.7	22.8	12.3	6.0	4.7	2.9
135.0	71.5	65.4	55.7	45.9	37.0	26.1	20.6	13.8	7.4	3.5
180.0	71.5	65.4	55.7	45.9	37.0	26.1	20.6	13.8	7.4	3.5
225.0	80.2	68.9	59.0	48.5	40.7	31.0	22.6	12.1	8.4	4.3
270.0	80.2	68.9	59.0	48.5	40.7	31.0	22.6	12.1	8.4	4.3
315.0	76.9	67.8	55.3	45.7	36.8	30.6	22.4	16.1	9.0	5.0
360.0	76.9	67.8	55.3	45.7	36.8	30.6	22.4	16.1	9.0	5.0

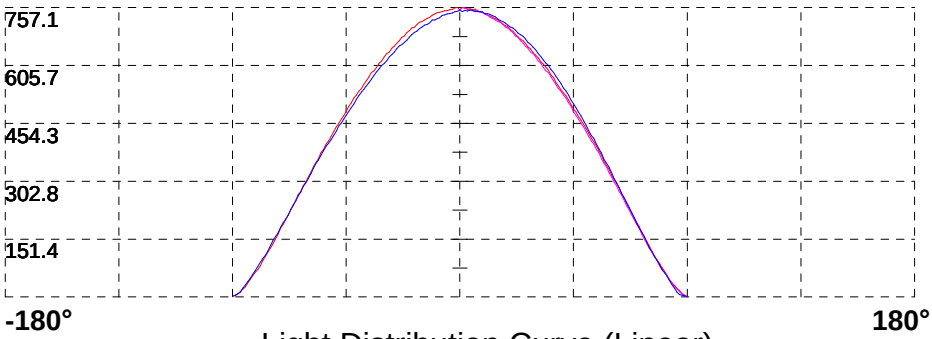
C\G	90.0
0.0	0.8
45.0	1.4
90.0	1.4
135.0	1.0
180.0	1.0
225.0	2.2
270.0	2.2
315.0	0.8
360.0	0.8

Light Distribution Curve [Unit: cd]

Luminaire



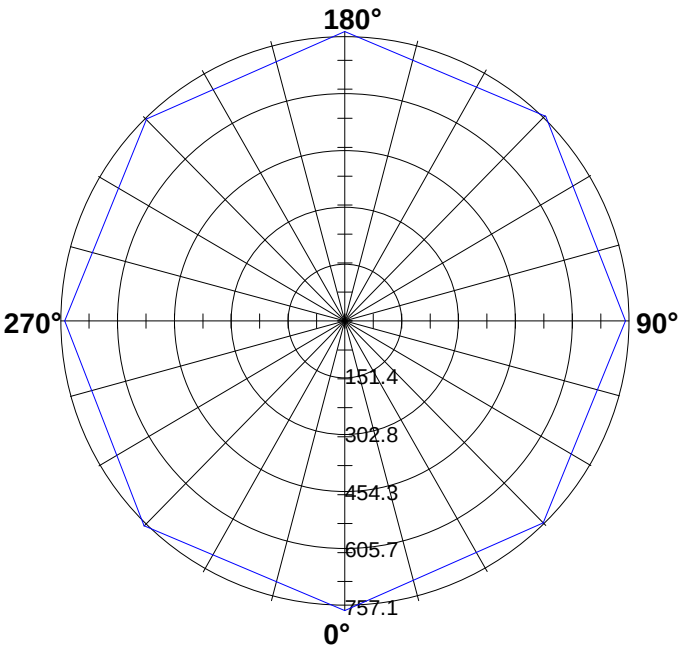


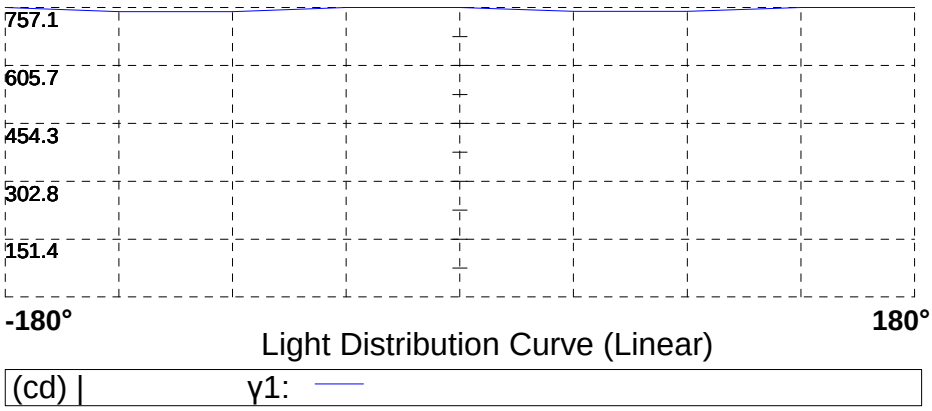


Light Distribution Curve (Linear)

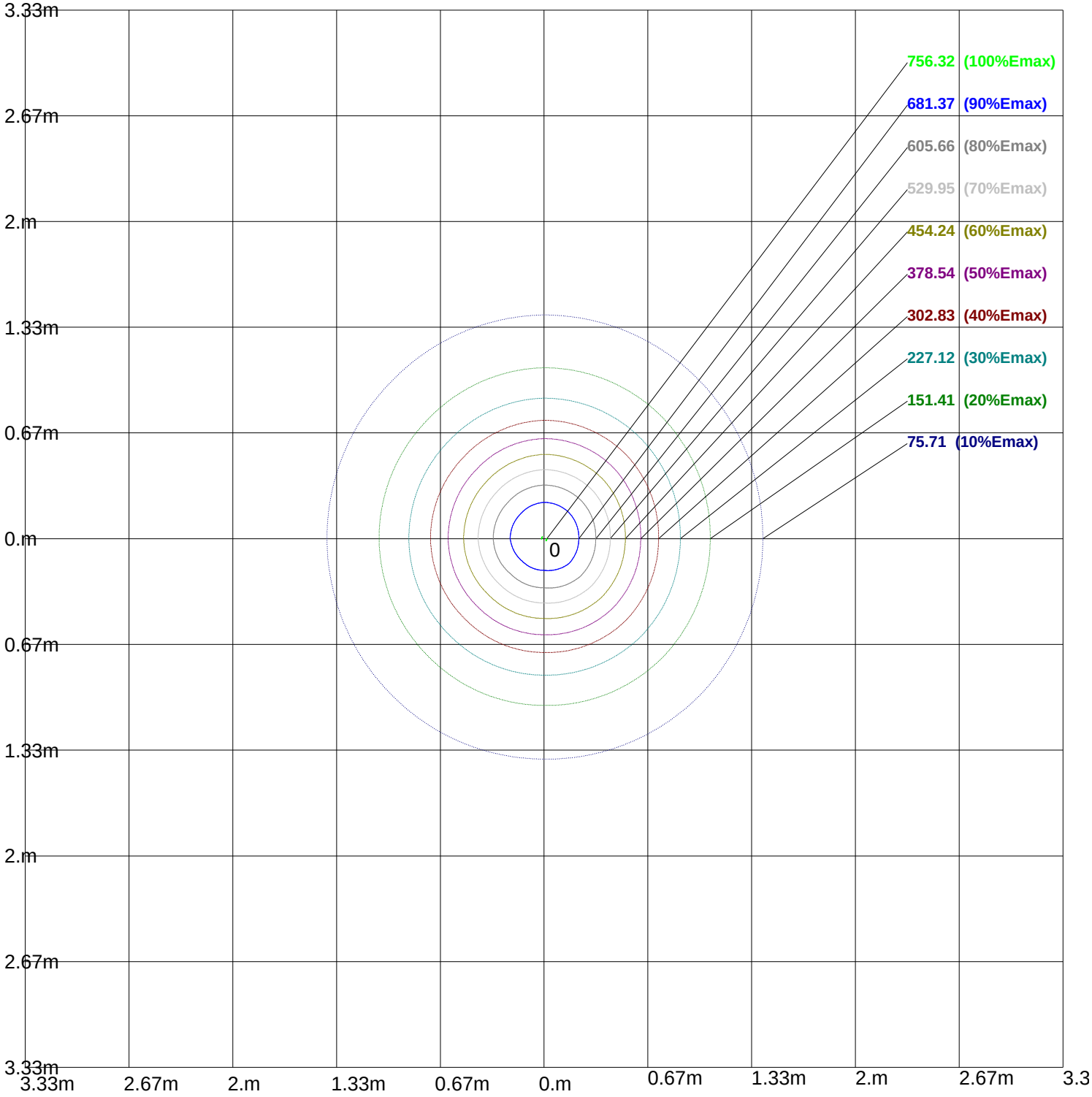
(cd) | C0/C180: C90/C270: C135:

Max Plane Light Distribution Curve [Unit: cd]





Iso-Lux[lx]



Height: 1 m
Max Illuminance : 757.07lx

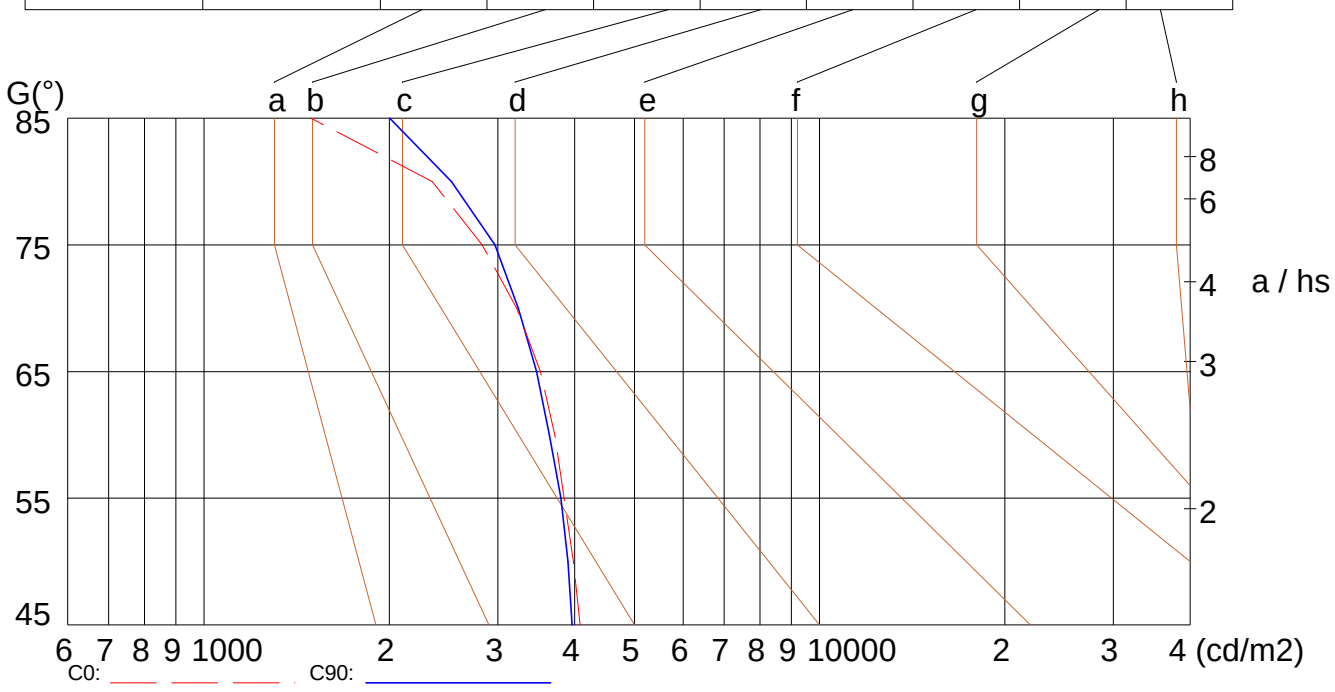
Luminance Limitting Curve

Diameter: mm
Length: 595mm
Width: 295mm
Height: mm

(cd/m2)

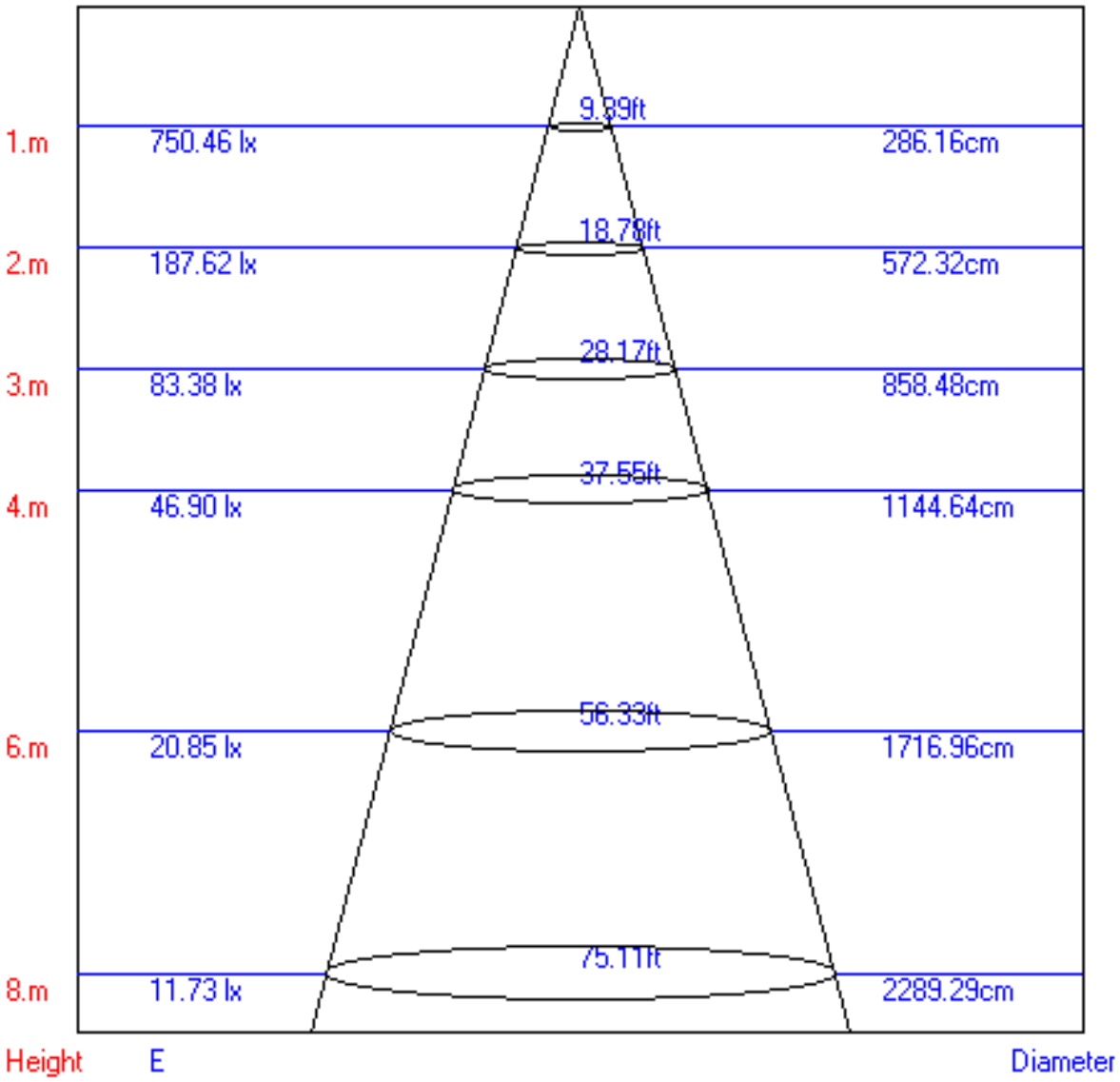
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	4078	3982	3846	3713	3517	3219	2828	2347	1491
C90	3964	3901	3798	3638	3467	3240	2969	2523	2002

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

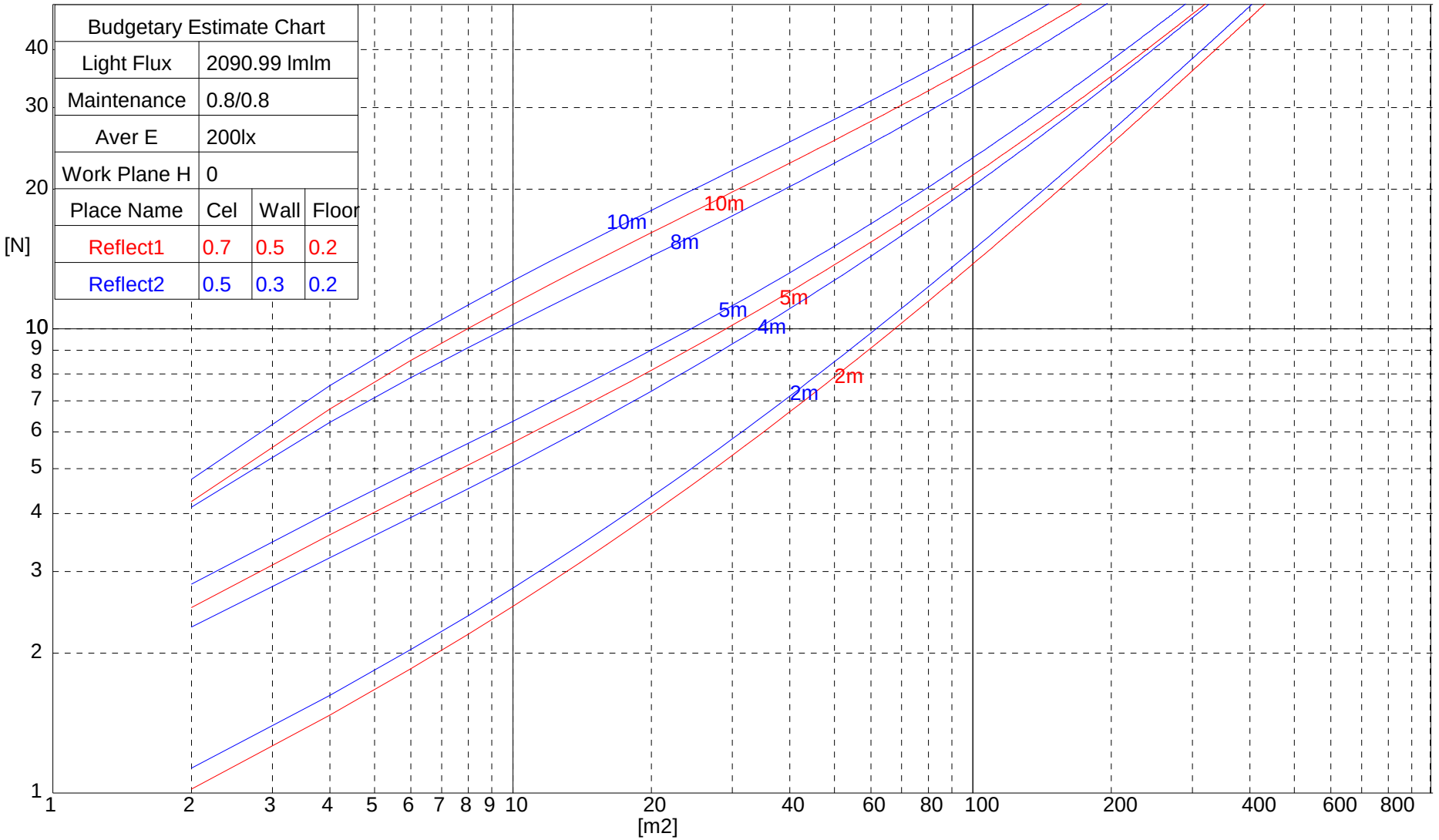


Beam Angle:110.10°

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	1.05	1.03	1.01	1.03	1.01	1.00	1.00	0.97	0.95	0.95	0.93	0.90	0.88	0.86	0.84	0.79
2	0.89	0.86	0.84	0.88	0.85	0.83	0.86	0.82	0.79	0.83	0.79	0.75	0.78	0.74	0.70	0.66
3	0.76	0.73	0.71	0.76	0.72	0.70	0.75	0.70	0.67	0.73	0.68	0.64	0.69	0.64	0.60	0.55
4	0.66	0.63	0.61	0.66	0.62	0.60	0.66	0.61	0.57	0.64	0.59	0.54	0.62	0.56	0.51	0.47
5	0.57	0.54	0.53	0.58	0.54	0.52	0.58	0.53	0.49	0.58	0.52	0.47	0.56	0.50	0.45	0.41
6	0.51	0.48	0.46	0.51	0.48	0.45	0.52	0.47	0.43	0.52	0.46	0.41	0.51	0.45	0.39	0.36
7	0.45	0.42	0.41	0.46	0.42	0.40	0.47	0.42	0.38	0.47	0.41	0.37	0.47	0.40	0.35	0.32
8	0.40	0.38	0.36	0.41	0.38	0.36	0.43	0.38	0.34	0.43	0.37	0.33	0.43	0.36	0.31	0.28
9	0.37	0.34	0.33	0.37	0.34	0.32	0.39	0.34	0.31	0.40	0.34	0.30	0.40	0.33	0.28	0.25
10	0.33	0.31	0.30	0.34	0.31	0.29	0.36	0.31	0.28	0.37	0.31	0.27	0.37	0.31	0.26	0.23

Budgetary Estimate Chart			
Light Flux	2090.99 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	14.7	15.9	15.0	15.9	16.5	14.5	15.9	14.9	16.0	16.4
	3H	16.3	17.4	16.7	17.7	18.0	16.1	17.4	16.4	17.8	18.0
	4H	17.0	18.2	17.3	18.5	18.7	16.9	18.1	17.3	18.6	18.7
	6H	17.5	18.6	17.9	18.8	19.1	17.5	18.4	17.8	18.9	19.0
	8H	17.9	19.0	18.1	19.0	19.4	17.7	18.7	18.0	18.9	19.3
	12H	17.9	18.8	18.1	19.3	19.6	17.7	18.6	18.1	19.2	19.6
4H	2H	15.8	16.7	15.9	16.7	17.1	15.7	16.6	15.7	16.9	17.0
	3H	17.4	18.3	17.7	18.5	18.7	17.3	18.1	17.7	18.4	18.8
	4H	18.3	19.0	18.5	19.0	19.5	18.0	18.8	18.4	19.2	19.5
	6H	18.9	19.5	19.2	19.9	20.0	18.7	19.3	19.1	19.7	20.1
	8H	19.1	19.8	19.5	20.0	20.4	18.9	19.7	19.3	19.9	20.4
	12H	19.3	20.0	19.5	20.1	20.4	19.1	19.8	19.4	20.2	20.4
8H	4H	18.6	19.1	19.0	19.4	19.8	18.3	19.0	18.7	19.5	20.0
	6H	19.4	19.8	19.8	20.2	20.5	19.3	19.7	19.7	20.3	20.6
	8H	19.8	20.1	20.2	20.5	21.0	19.6	20.1	20.0	20.5	21.0
	12H	19.9	20.4	20.5	20.8	21.1	19.9	20.2	20.3	20.7	21.2
12H	4H	18.6	19.2	19.0	19.4	19.8	18.5	19.1	18.8	19.6	19.8
	6H	19.5	20.1	19.9	20.2	20.7	19.3	19.8	19.8	20.2	20.6
	8H	19.9	20.3	20.3	20.7	21.1	19.8	20.2	20.2	20.6	21.0