

Luminaire Property

Luminaire: PL RD 12w 6500K

Report NO.:

Test NO.:

Lamp: SMD2835

Sum Lumens: 867.18 lm

Number of Lamps: 72

Diameter: 125mm

Length: 125mm

Photometric Type: Type C

Voltage: 220.5 V

Current: 0.055 A

Power: 11.6 W

Power Factor: 0.954

Ballast Type:

Width: 125mm

Height: 26mm

Remark:

Photometric Results

Lumens: 867.18 lm

Effective luminous flux: 847.15 lm

Efficiency: N.A

Central Intensity: 335.751cd

Maximum Intensity: 346.034cd

Beam Angle(10%): Left: -68.4 Right:81.3

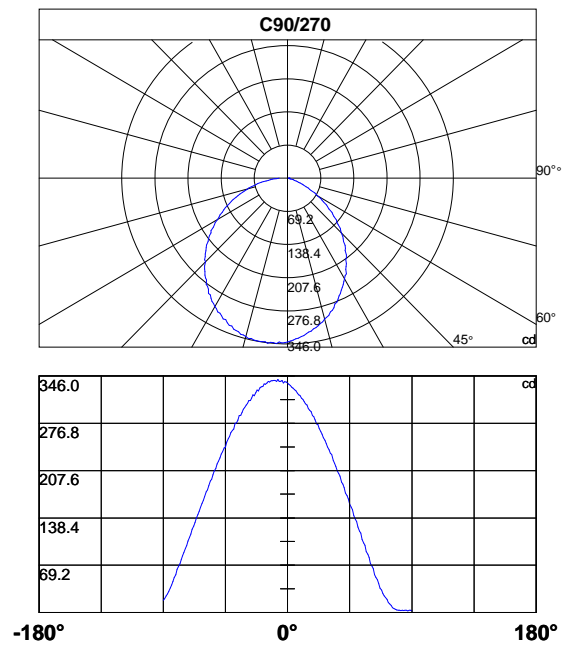
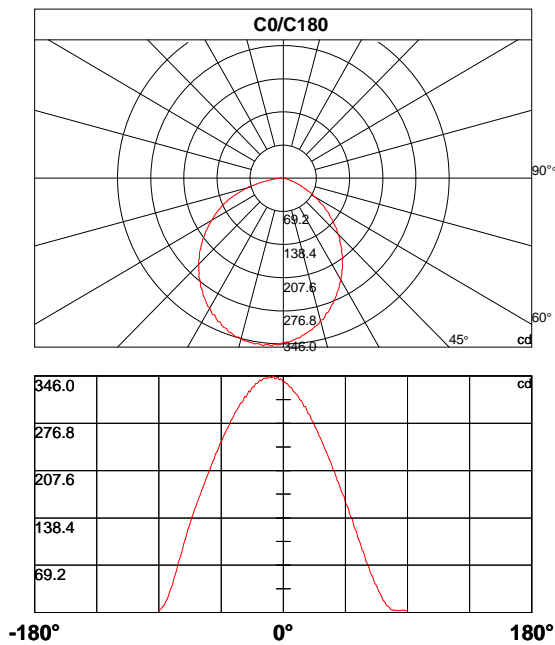
Angle of maximum intensity: C:135.0 G:7.0

Half Peak Side Angle(50%): Left: -43.1 Right:60.0

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	335.8	337.8	335.5	334.3	331.7	329.2	329.0	324.8	322.8	320.9
45.0	335.8	333.9	331.9	329.5	328.2	325.8	324.4	321.0	318.5	317.5
90.0	335.8	333.9	331.9	329.5	328.2	325.8	324.4	321.0	318.5	317.5
135.0	335.8	340.7	341.7	340.3	344.1	342.9	342.2	346.0	343.5	343.2
180.0	335.8	340.7	341.7	340.3	344.1	342.9	342.2	346.0	343.5	343.2
225.0	335.8	337.2	337.5	336.0	339.8	338.0	338.4	340.9	338.4	339.3
270.0	335.8	337.2	337.5	336.0	339.8	338.0	338.4	340.9	338.4	339.3
315.0	335.8	337.8	335.5	334.3	331.7	329.2	329.0	324.8	322.8	320.9
360.0	335.8	337.8	335.5	334.3	331.7	329.2	329.0	324.8	322.8	320.9

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	317.8	316.0	311.7	309.5	307.3	301.0	301.0	296.7	290.7	289.9
45.0	313.4	312.0	308.8	305.3	303.4	298.3	296.3	293.9	287.9	286.4
90.0	313.4	312.0	308.8	305.3	303.4	298.3	296.3	293.9	287.9	286.4
135.0	345.1	343.4	343.1	342.7	342.5	341.2	338.9	339.9	336.9	334.9
180.0	345.1	343.4	343.1	342.7	342.5	341.2	338.9	339.9	336.9	334.9
225.0	339.4	339.2	338.9	337.0	338.3	335.8	333.8	334.5	330.5	330.2
270.0	339.4	339.2	338.9	337.0	338.3	335.8	333.8	334.5	330.5	330.2
315.0	317.8	316.0	311.7	309.5	307.3	301.0	301.0	296.7	290.7	289.9
360.0	317.8	316.0	311.7	309.5	307.3	301.0	301.0	296.7	290.7	289.9

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	284.5	279.7	277.3	271.5	268.3	263.8	258.2	255.1	249.5	244.8
45.0	282.2	275.9	274.7	269.0	264.4	261.2	255.7	252.0	247.2	242.0
90.0	282.2	275.9	274.7	269.0	264.4	261.2	255.7	252.0	247.2	242.0
135.0	334.9	330.3	330.2	327.9	322.8	324.0	319.3	315.2	315.9	310.5
180.0	334.9	330.3	330.2	327.9	322.8	324.0	319.3	315.2	315.9	310.5
225.0	329.0	324.0	325.5	321.7	317.2	318.7	314.0	310.3	310.2	305.8
270.0	329.0	324.0	325.5	321.7	317.2	318.7	314.0	310.3	310.2	305.8
315.0	284.5	279.7	277.3	271.5	268.3	263.8	258.2	255.1	249.5	244.8
360.0	284.5	279.7	277.3	271.5	268.3	263.8	258.2	255.1	249.5	244.8

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	240.4	235.9	231.2	225.2	221.8	216.1	209.1	206.6	199.8	193.4
45.0	237.9	232.8	231.3	222.7	218.3	213.5	206.6	203.4	199.6	190.9
90.0	237.9	232.8	231.3	222.7	218.3	213.5	206.6	203.4	199.6	190.9
135.0	306.9	306.2	302.0	297.8	294.8	291.9	286.7	283.2	281.0	274.5
180.0	306.9	306.2	302.0	297.8	294.8	291.9	286.7	283.2	281.0	274.5
225.0	303.5	299.7	297.3	292.8	288.7	287.8	281.5	277.7	276.0	268.4
270.0	303.5	299.7	297.3	292.8	288.7	287.8	281.5	277.7	276.0	268.4
315.0	240.4	235.9	231.2	225.2	221.8	216.1	209.1	206.6	199.8	193.4
360.0	240.4	235.9	231.2	225.2	221.8	216.1	209.1	206.6	199.8	193.4

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	190.6	183.4	177.4	173.4	169.4	161.0	156.6	153.0	144.4	139.5
45.0	187.8	182.8	174.9	170.6	166.4	158.6	153.9	150.4	142.0	136.3
90.0	187.8	182.8	174.9	170.6	166.4	158.6	153.9	150.4	142.0	136.3
135.0	270.9	268.2	262.0	258.9	253.9	249.5	245.7	239.3	235.8	231.8
180.0	270.9	268.2	262.0	258.9	253.9	249.5	245.7	239.3	235.8	231.8
225.0	266.5	263.0	257.8	254.1	249.4	241.7	240.5	235.4	231.6	226.3
270.0	266.5	263.0	257.8	254.1	249.4	241.7	240.5	235.4	231.6	226.3
315.0	190.6	183.4	177.4	173.4	169.4	161.0	156.6	153.0	144.4	139.5
360.0	190.6	183.4	177.4	173.4	169.4	161.0	156.6	153.0	144.4	139.5

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	136.0	126.9	122.4	118.8	109.1	105.4	100.9	91.4	88.8	83.4
45.0	133.1	124.8	119.0	116.1	106.8	101.9	98.5	89.0	85.0	80.6
90.0	133.1	124.8	119.0	116.1	106.8	101.9	98.5	89.0	85.0	80.6
135.0	224.5	221.0	215.7	210.0	205.5	199.4	194.8	189.0	183.0	178.8
180.0	224.5	221.0	215.7	210.0	205.5	199.4	194.8	189.0	183.0	178.8
225.0	221.3	217.3	210.5	207.0	201.2	194.9	192.3	185.3	179.5	176.5
270.0	221.3	217.3	210.5	207.0	201.2	194.9	192.3	185.3	179.5	176.5
315.0	136.0	126.9	122.4	118.8	109.1	105.4	100.9	91.4	88.8	83.4
360.0	136.0	126.9	122.4	118.8	109.1	105.4	100.9	91.4	88.8	83.4

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	74.6	71.4	66.8	58.1	54.6	50.8	43.5	40.9	37.5	30.9
45.0	71.6	68.1	63.9	55.4	51.4	47.5	42.4	35.5	32.8	27.4
90.0	71.6	68.1	63.9	55.4	51.4	47.5	42.4	35.5	32.8	27.4
135.0	172.8	167.3	162.4	156.4	151.1	145.0	140.1	133.9	126.6	122.0
180.0	172.8	167.3	162.4	156.4	151.1	145.0	140.1	133.9	126.6	122.0
225.0	169.5	164.0	159.8	153.5	148.1	143.1	137.8	131.8	126.3	121.5
270.0	169.5	164.0	159.8	153.5	148.1	143.1	137.8	131.8	126.3	121.5
315.0	74.6	71.4	66.8	58.1	54.6	50.8	43.5	40.9	37.5	30.9
360.0	74.6	71.4	66.8	58.1	54.6	50.8	43.5	40.9	37.5	30.9

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	28.0	24.1	18.4	16.3	13.6	9.8	8.8	6.8	4.0	3.9
45.0	24.3	22.1	19.1	14.5	12.6	10.1	6.9	5.5	4.4	3.9
90.0	24.3	22.1	19.1	14.5	12.6	10.1	6.9	5.5	4.4	3.9
135.0	114.3	106.3	100.9	92.5	85.1	78.8	73.4	62.6	55.9	51.0
180.0	114.3	106.3	100.9	92.5	85.1	78.8	73.4	62.6	55.9	51.0
225.0	114.8	109.9	104.6	97.8	93.4	87.6	83.1	77.4	71.1	67.0
270.0	114.8	109.9	104.6	97.8	93.4	87.6	83.1	77.4	71.1	67.0
315.0	28.0	24.1	18.4	16.3	13.6	9.8	8.8	6.8	4.0	3.9
360.0	28.0	24.1	18.4	16.3	13.6	9.8	8.8	6.8	4.0	3.9

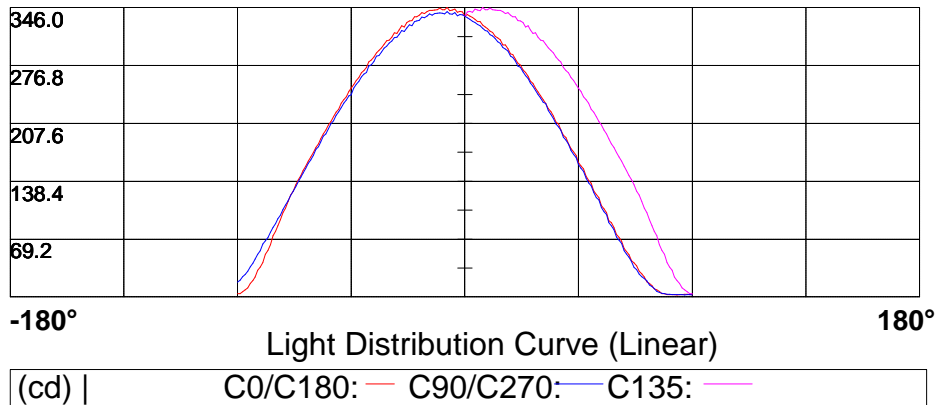
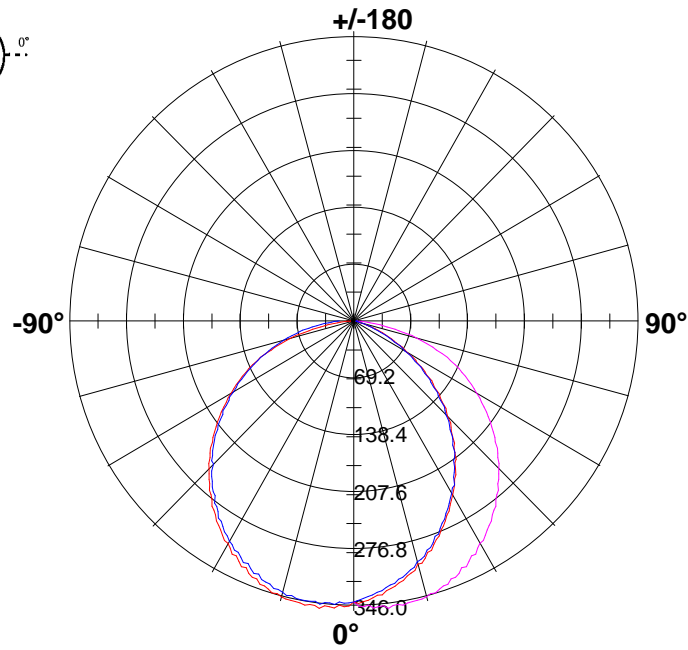
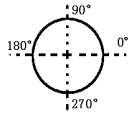
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	3.0	3.1	3.1	2.9	2.6	3.1	3.1	3.2	3.2	2.9
45.0	3.4	3.4	2.9	3.0	2.9	3.1	3.0	2.5	3.0	3.1
90.0	3.4	3.4	2.9	3.0	2.9	3.1	3.0	2.5	3.0	3.1
135.0	41.1	35.9	32.1	24.1	19.7	16.5	10.9	8.8	6.4	4.2
180.0	41.1	35.9	32.1	24.1	19.7	16.5	10.9	8.8	6.4	4.2
225.0	63.3	55.4	51.1	45.5	40.1	36.1	30.8	27.1	24.3	20.3
270.0	63.3	55.4	51.1	45.5	40.1	36.1	30.8	27.1	24.3	20.3
315.0	3.0	3.1	3.1	2.9	2.6	3.1	3.1	3.2	3.2	2.9
360.0	3.0	3.1	3.1	2.9	2.6	3.1	3.1	3.2	3.2	2.9

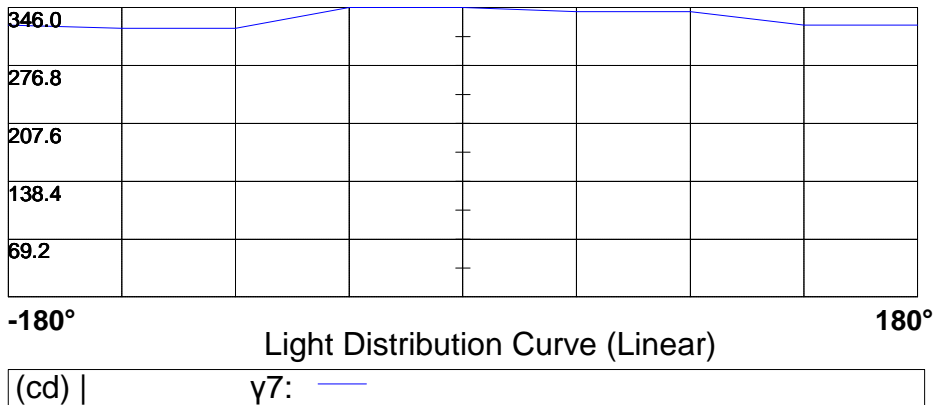
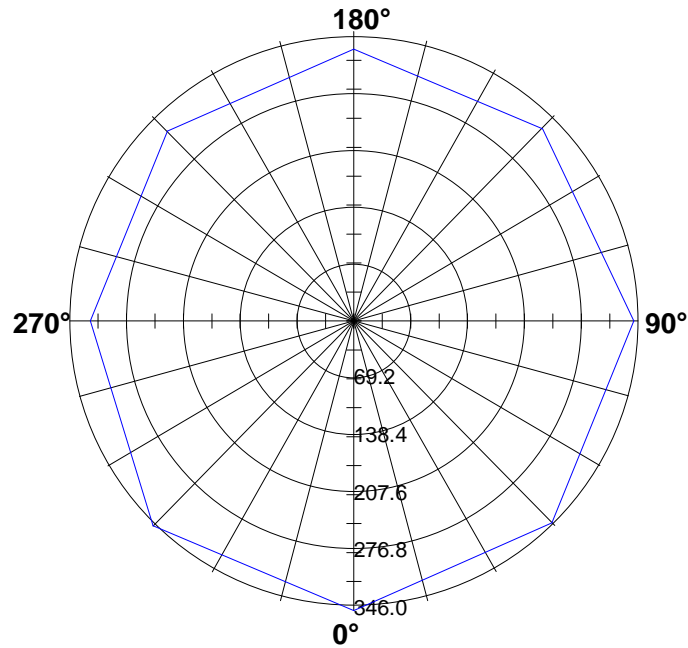
C\G	90.0
0.0	2.8
45.0	2.4
90.0	2.4
135.0	3.9
180.0	3.9
225.0	17.9
270.0	17.9
315.0	2.8
360.0	2.8

Light Distribution Curve [Unit: cd]

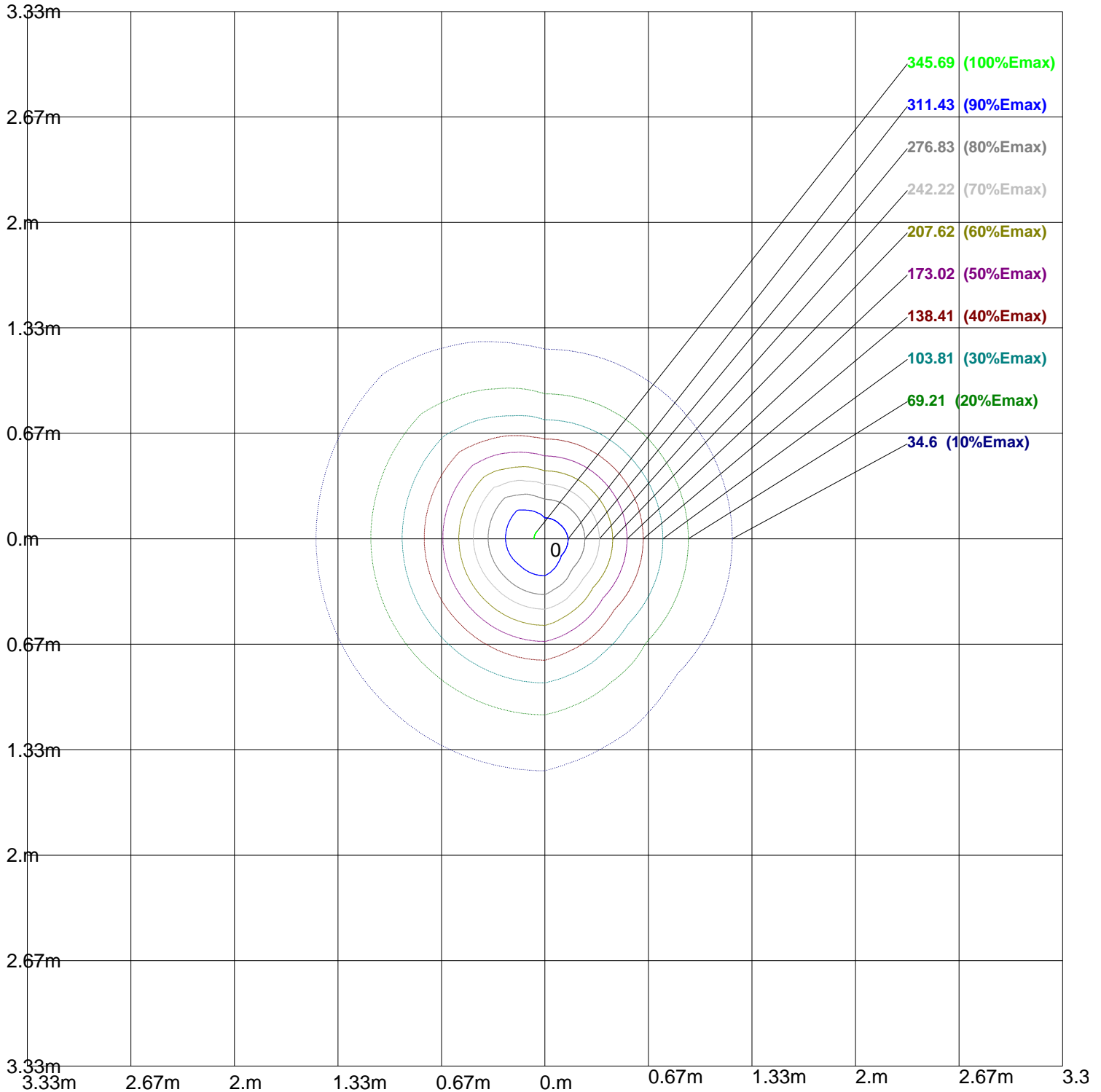
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 346.03lx

Luminance Limiting Curve

Diameter: 125mm

Length: 125mm

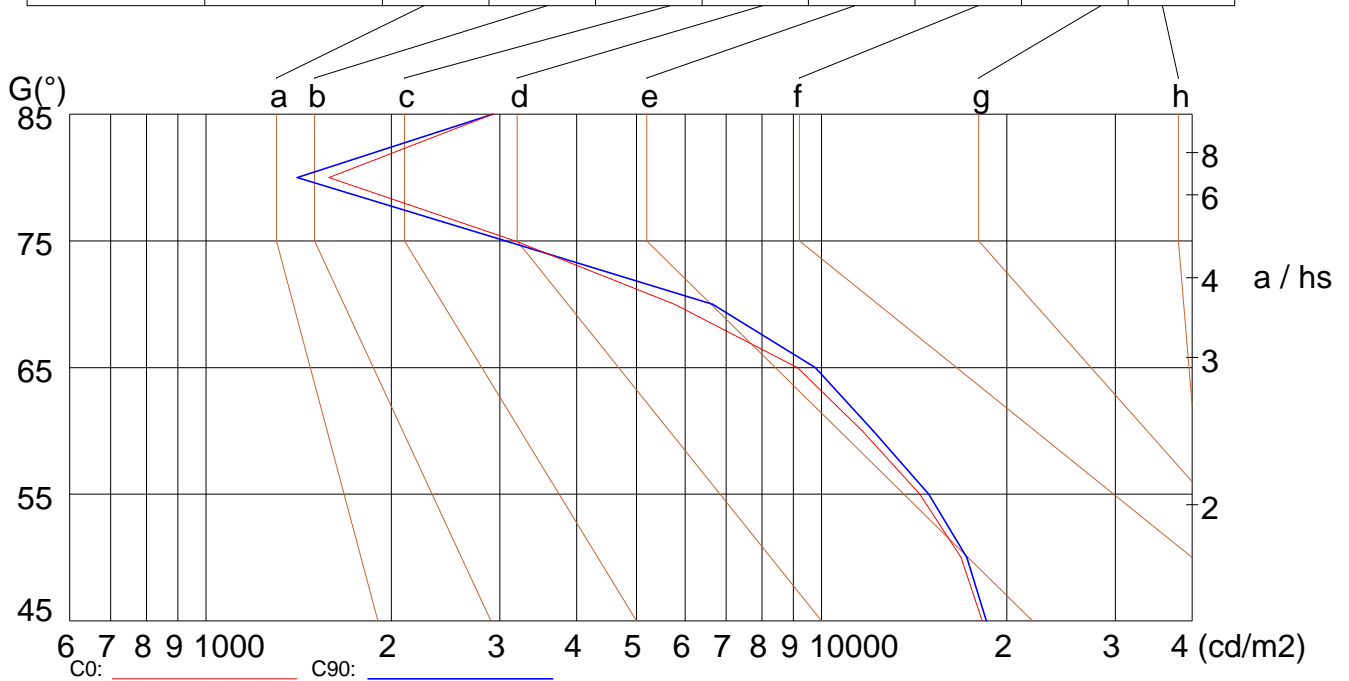
Width: 125mm

Height: 26mm

(cd/m²)

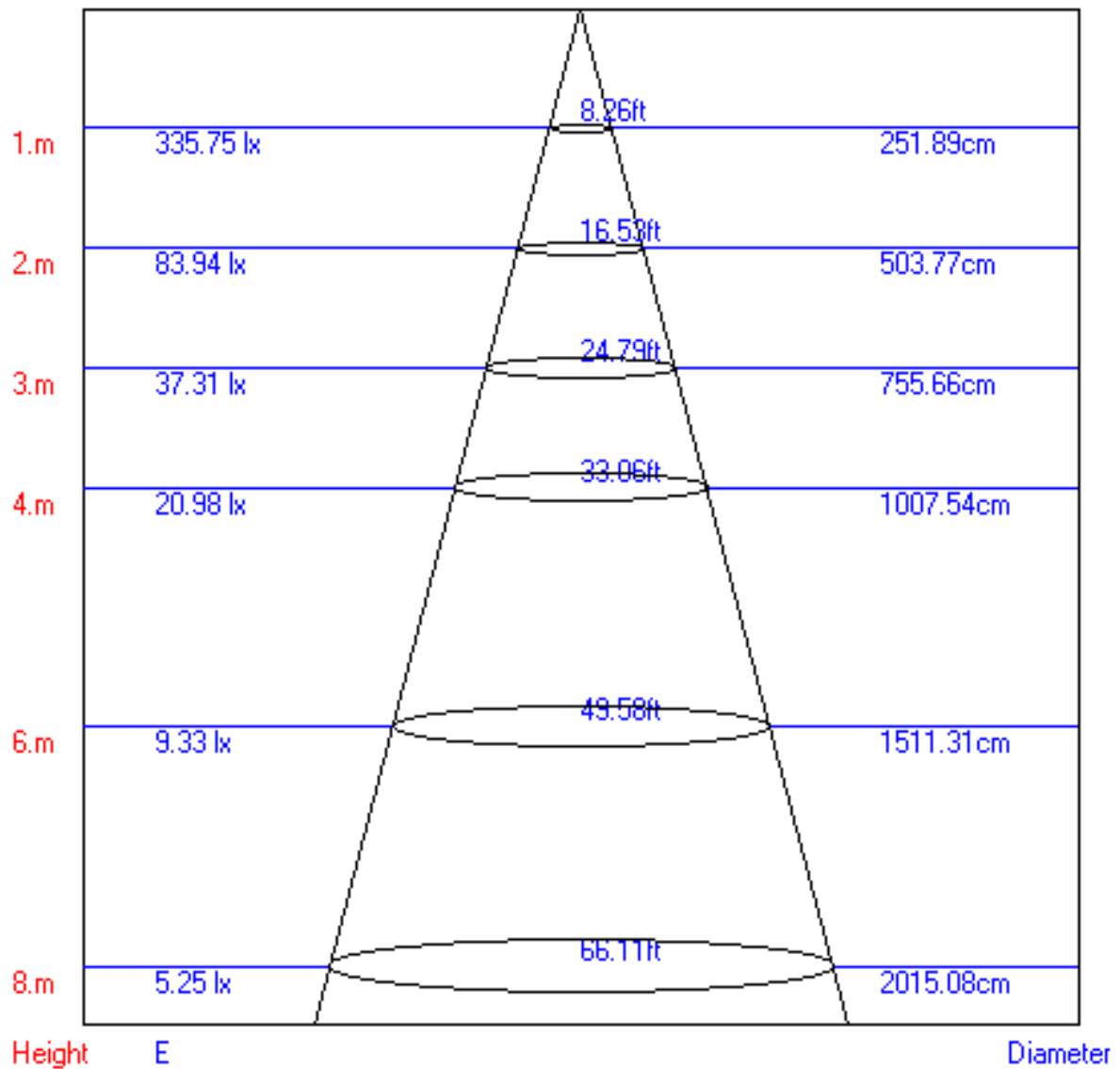
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	18240	16839	14442	11647	9138	5767	3179	1582	2923
C90	18513	17204	14937	12135	9766	6655	3066	1405	2923

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. Limiting Curve (C0/C90)

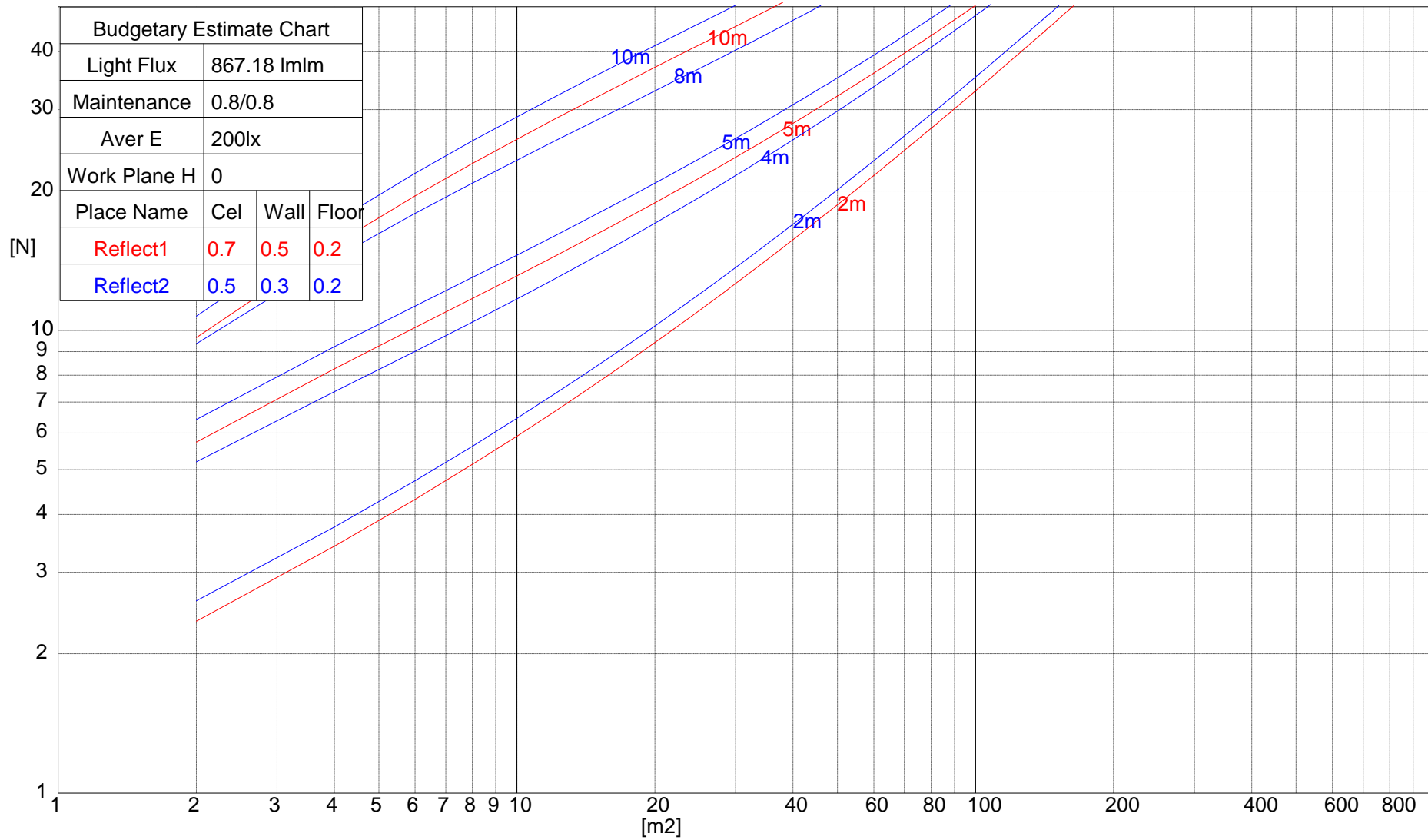
Lux-Distance Curve



Beam Angle:103.10°

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	COEFFICIENTS 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	1.02	1.04	1.02	1.00	1.00	0.98	0.96	0.95	0.93	0.91	0.89	0.86	0.84	0.79
2	0.90	0.87	0.86	0.89	0.86	0.84	0.87	0.83	0.80	0.83	0.80	0.76	0.79	0.75	0.71	0.67
3	0.77	0.74	0.73	0.77	0.74	0.71	0.76	0.72	0.68	0.74	0.69	0.65	0.70	0.65	0.61	0.56
4	0.67	0.64	0.62	0.67	0.64	0.61	0.67	0.62	0.59	0.66	0.60	0.56	0.63	0.57	0.53	0.49
5	0.59	0.56	0.54	0.59	0.56	0.53	0.60	0.55	0.51	0.59	0.53	0.49	0.57	0.51	0.46	0.42
6	0.52	0.49	0.48	0.53	0.49	0.47	0.53	0.48	0.45	0.53	0.47	0.43	0.52	0.46	0.41	0.37
7	0.47	0.44	0.42	0.47	0.44	0.41	0.48	0.43	0.40	0.48	0.42	0.38	0.48	0.41	0.36	0.33
8	0.42	0.39	0.38	0.43	0.39	0.37	0.44	0.39	0.36	0.44	0.38	0.34	0.44	0.38	0.33	0.29
9	0.38	0.36	0.34	0.39	0.36	0.34	0.40	0.35	0.32	0.41	0.35	0.31	0.41	0.34	0.29	0.27
10	0.35	0.32	0.31	0.36	0.32	0.30	0.37	0.32	0.29	0.38	0.32	0.28	0.38	0.32	0.27	0.24



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 X Y	Weft to light axis direction of observation					Direction of light axis parallel observation					
2H	2H	14.7	16.0	14.9	15.9	16.5	14.7	15.9	14.8	16.0	16.5
	3H	16.3	17.4	16.7	17.9	17.9	16.2	17.4	16.4	17.8	18.0
	4H	16.9	18.1	17.4	18.7	18.8	16.9	18.1	17.3	18.5	18.8
	6H	17.6	18.5	18.0	18.9	18.9	17.4	18.3	17.8	18.9	19.0
	8H	17.8	18.9	18.1	19.0	19.3	17.7	18.7	17.9	19.0	19.3
4H	12H	17.9	18.8	18.1	19.2	19.5	17.7	18.7	18.1	19.2	19.6
	2H	15.7	16.6	15.9	16.8	17.0	15.6	16.6	15.8	16.9	17.0
	3H	17.5	18.4	17.7	18.4	18.8	17.3	18.2	17.6	18.3	18.7
	4H	18.3	18.9	18.5	19.1	19.5	18.0	18.9	18.4	19.1	19.6
	6H	18.8	19.5	19.1	19.8	20.2	18.7	19.5	18.9	19.7	20.0
8H	8H	19.0	19.7	19.4	20.0	20.3	19.0	19.5	19.3	20.0	20.3
	12H	19.2	19.8	19.7	20.0	20.5	19.1	19.8	19.5	20.1	20.5
	4H	18.5	19.2	18.8	19.4	19.8	18.5	19.1	18.7	19.4	19.8
	6H	19.3	19.8	19.8	20.2	20.6	19.2	19.7	19.6	20.2	20.5
	8H	19.8	20.2	20.2	20.5	20.9	19.6	20.0	20.1	20.4	21.0
12H	12H	20.0	20.4	20.4	20.9	21.1	19.8	20.3	20.3	20.8	21.2
	4H	18.6	19.2	19.1	19.6	19.8	18.5	19.0	18.9	19.4	19.8
	6H	19.5	20.0	19.9	20.2	20.7	19.4	19.9	19.8	20.2	20.6
	8H	19.9	20.3	20.4	20.5	21.1	19.8	20.2	20.3	20.6	21.0