

Luminaire Property

Luminaire: PL RD 32w 6500K

Report NO.:

Voltage: 220.0 V

Test NO.:

Current: 0.135 A

Lamp: SMD2835

Power: 29.3 W

Sum Lumens: 2294.01 lm

Power Factor: 0.983

Number of Lamps: 168

Ballast Type:

Diameter: 220mm

Width: 220mm

Length: 220mm

Height: 30mm

Photometric Type: Type C

Remark:

Photometric Results

Lumens: 2294.01 lm

Angle of maximum intensity: C:0.0 G:10.0

Effective luminous flux: 2247.24 lm

Half Peak Side Angle(50%): Left: -31.4 Right:58.7

Efficiency: N.A

Light Out Rate(LOR) : 100.00%

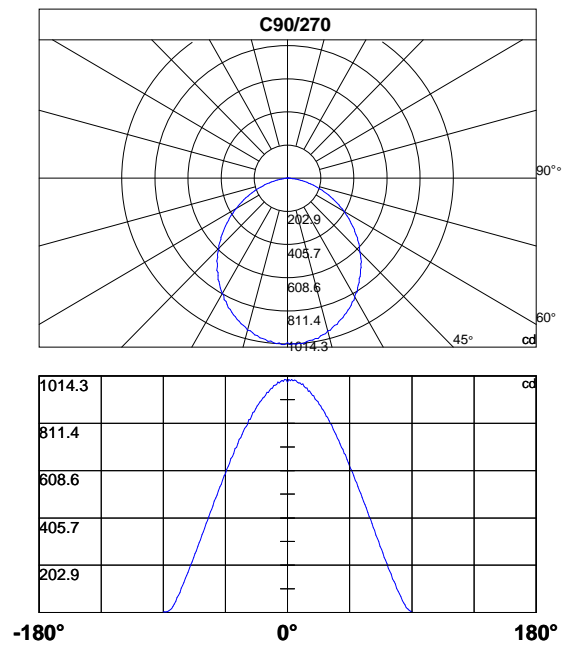
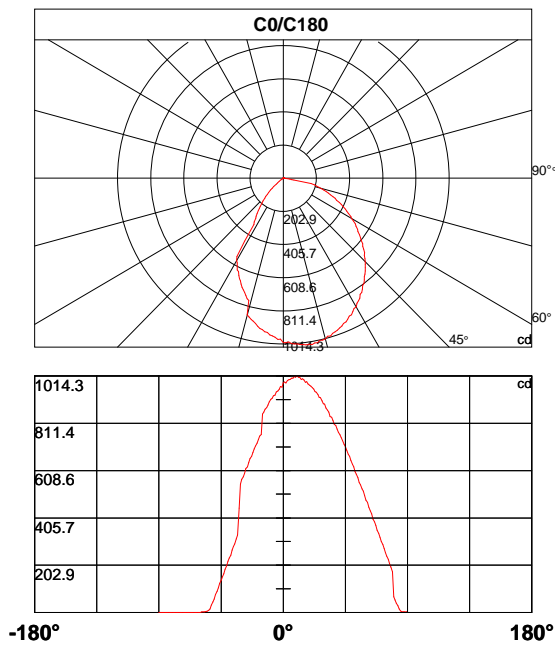
Central Intensity: 987.01cd

Up Flux Rate: 0.0%

Maximum Intensity: 1014.257cd

Down Flux Rate: 100.0%

Beam Angle(10%): Left: -47.3 Right:79.7



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	987.0	987.9	983.7	994.9	998.8	999.1	1005.4	1005.6	1011.5	1009.6
45.0	987.0	1000.1	994.5	999.2	994.2	996.5	995.5	986.7	984.0	985.1
90.0	987.0	1000.1	994.5	999.2	994.2	996.5	995.5	986.7	984.0	985.1
135.0	987.0	966.5	969.5	957.0	950.0	945.5	932.5	929.1	918.4	914.7
180.0	987.0	966.5	969.5	957.0	950.0	945.5	932.5	929.1	918.4	914.7
225.0	987.0	998.4	1000.1	991.0	996.0	990.9	983.7	988.0	978.1	974.6
270.0	987.0	998.4	1000.1	991.0	996.0	990.9	983.7	988.0	978.1	974.6
315.0	987.0	987.9	983.7	994.9	998.8	999.1	1005.4	1005.6	1011.5	1009.6
360.0	987.0	987.9	983.7	994.9	998.8	999.1	1005.4	1005.6	1011.5	1009.6

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	1014.3	1008.7	1009.5	999.2	1002.7	998.0	987.4	990.1	980.6	974.4
45.0	977.0	980.3	969.2	964.7	962.1	948.5	950.0	939.3	930.6	930.0
90.0	977.0	980.3	969.2	964.7	962.1	948.5	950.0	939.3	930.6	930.0
135.0	903.4	889.2	879.2	872.2	860.0	850.3	763.3	757.0	740.6	725.6
180.0	903.4	889.2	879.2	872.2	860.0	850.3	763.3	757.0	740.6	725.6
225.0	973.3	962.2	961.9	952.6	943.6	944.6	930.9	924.5	920.1	909.1
270.0	973.3	962.2	961.9	952.6	943.6	944.6	930.9	924.5	920.1	909.1
315.0	1014.3	1008.7	1009.5	999.2	1002.7	998.0	987.4	990.1	980.6	974.4
360.0	1014.3	1008.7	1009.5	999.2	1002.7	998.0	987.4	990.1	980.6	974.4

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	970.9	964.1	958.2	947.0	944.9	935.5	921.9	921.6	907.9	895.4
45.0	915.9	909.4	904.2	892.7	884.9	873.7	867.8	855.2	841.6	837.7
90.0	915.9	909.4	904.2	892.7	884.9	873.7	867.8	855.2	841.6	837.7
135.0	713.7	701.5	686.1	669.7	660.6	643.5	625.4	617.7	597.8	581.7
180.0	713.7	701.5	686.1	669.7	660.6	643.5	625.4	617.7	597.8	581.7
225.0	903.0	892.0	885.6	875.2	861.2	858.5	842.9	829.6	825.8	806.7
270.0	903.0	892.0	885.6	875.2	861.2	858.5	842.9	829.6	825.8	806.7
315.0	970.9	964.1	958.2	947.0	944.9	935.5	921.9	921.6	907.9	895.4
360.0	970.9	964.1	958.2	947.0	944.9	935.5	921.9	921.6	907.9	895.4

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	893.2	877.0	868.1	859.9	841.1	837.7	823.2	807.3	801.7	786.6
45.0	822.0	809.5	804.3	785.0	774.7	764.3	746.5	739.1	723.6	707.6
90.0	822.0	809.5	804.3	785.0	774.7	764.3	746.5	739.1	723.6	707.6
135.0	570.7	550.2	447.2	331.5	316.0	293.4	282.8	267.3	246.0	233.9
180.0	570.7	550.2	447.2	331.5	316.0	293.4	282.8	267.3	246.0	233.9
225.0	797.8	789.2	777.1	763.5	749.1	742.2	725.1	708.5	702.8	683.2
270.0	797.8	789.2	777.1	763.5	749.1	742.2	725.1	708.5	702.8	683.2
315.0	893.2	877.0	868.1	859.9	841.1	837.7	823.2	807.3	801.7	786.6
360.0	893.2	877.0	868.1	859.9	841.1	837.7	823.2	807.3	801.7	786.6

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	773.5	762.7	749.2	736.8	720.8	711.1	695.8	678.2	670.1	651.9
45.0	700.2	683.2	676.6	656.8	642.5	627.2	612.1	601.6	585.9	566.4
90.0	700.2	683.2	676.6	656.8	642.5	627.2	612.1	601.6	585.9	566.4
135.0	219.9	200.5	185.7	166.0	153.6	138.1	124.9	105.5	90.6	76.6
180.0	219.9	200.5	185.7	166.0	153.6	138.1	124.9	105.5	90.6	76.6
225.0	668.6	660.1	639.2	628.0	613.7	594.2	585.4	567.6	549.2	540.2
270.0	668.6	660.1	639.2	628.0	613.7	594.2	585.4	567.6	549.2	540.2
315.0	773.5	762.7	749.2	736.8	720.8	711.1	695.8	678.2	670.1	651.9
360.0	773.5	762.7	749.2	736.8	720.8	711.1	695.8	678.2	670.1	651.9

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	636.2	625.0	604.7	592.8	578.2	557.2	548.2	529.9	519.7	500.6
45.0	557.8	539.7	520.8	511.3	494.4	474.9	462.1	449.1	428.9	412.2
90.0	557.8	539.7	520.8	511.3	494.4	474.9	462.1	449.1	428.9	412.2
135.0	56.8	44.8	31.5	15.4	9.3	5.1	4.0	2.9	2.8	2.2
180.0	56.8	44.8	31.5	15.4	9.3	5.1	4.0	2.9	2.8	2.2
225.0	522.2	503.8	491.1	477.6	457.2	441.7	431.4	410.3	393.4	382.9
270.0	522.2	503.8	491.1	477.6	457.2	441.7	431.4	410.3	393.4	382.9
315.0	636.2	625.0	604.7	592.8	578.2	557.2	548.2	529.9	519.7	500.6
360.0	636.2	625.0	604.7	592.8	578.2	557.2	548.2	529.9	519.7	500.6

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	482.2	472.6	451.2	435.4	422.8	401.4	388.0	373.0	352.4	339.7
45.0	401.8	381.3	364.0	353.5	332.8	317.2	304.0	283.8	271.0	255.8
90.0	401.8	381.3	364.0	353.5	332.8	317.2	304.0	283.8	271.0	255.8
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	361.0	345.9	333.8	312.3	299.0	284.0	263.9	252.4	236.2	216.7
270.0	361.0	345.9	333.8	312.3	299.0	284.0	263.9	252.4	236.2	216.7
315.0	482.2	472.6	451.2	435.4	422.8	401.4	388.0	373.0	352.4	339.7
360.0	482.2	472.6	451.2	435.4	422.8	401.4	388.0	373.0	352.4	339.7

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	323.2	304.4	290.4	274.4	256.8	241.7	227.4	209.4	194.2	173.5
45.0	235.5	224.5	208.8	189.5	178.1	164.3	144.7	132.9	121.5	103.1
90.0	235.5	224.5	208.8	189.5	178.1	164.3	144.7	132.9	121.5	103.1
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	205.5	190.3	171.1	158.9	146.5	127.3	114.6	104.3	85.6	73.3
270.0	205.5	190.3	171.1	158.9	146.5	127.3	114.6	104.3	85.6	73.3
315.0	323.2	304.4	290.4	274.4	256.8	241.7	227.4	209.4	194.2	173.5
360.0	323.2	304.4	290.4	274.4	256.8	241.7	227.4	209.4	194.2	173.5

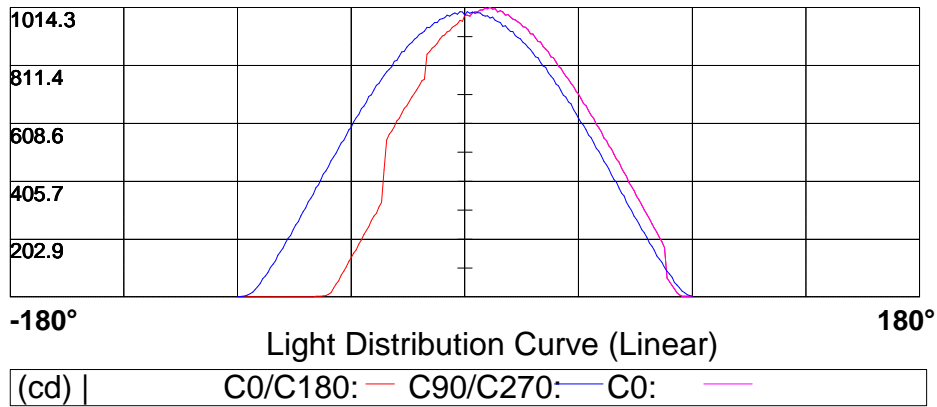
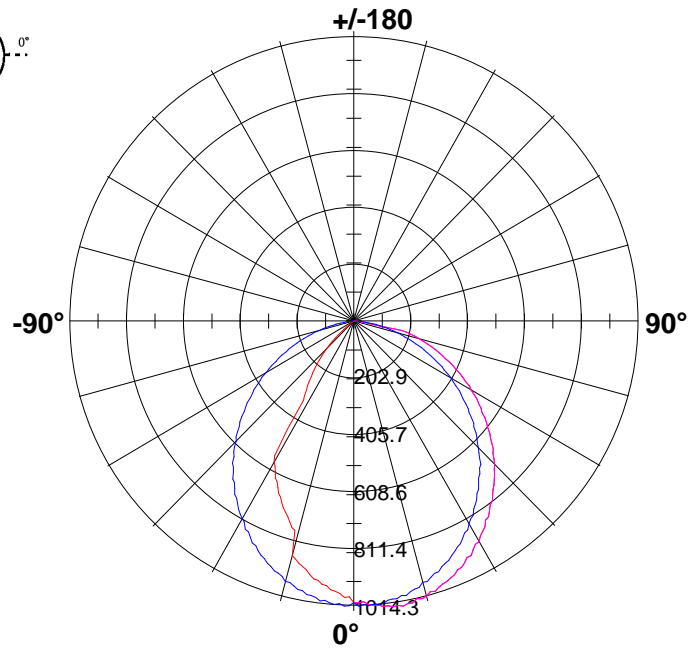
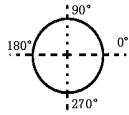
Photometric Data Table [cd]

C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	66.8	53.5	39.9	29.3	15.0	7.4	3.4	2.5	2.6	2.8
45.0	90.4	80.1	68.9	51.5	41.5	32.4	21.3	15.0	9.1	4.8
90.0	90.4	80.1	68.9	51.5	41.5	32.4	21.3	15.0	9.1	4.8
135.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
225.0	64.0	47.6	36.0	26.4	17.3	12.1	7.1	3.6	2.2	1.9
270.0	64.0	47.6	36.0	26.4	17.3	12.1	7.1	3.6	2.2	1.9
315.0	66.8	53.5	39.9	29.3	15.0	7.4	3.4	2.5	2.6	2.8
360.0	66.8	53.5	39.9	29.3	15.0	7.4	3.4	2.5	2.6	2.8

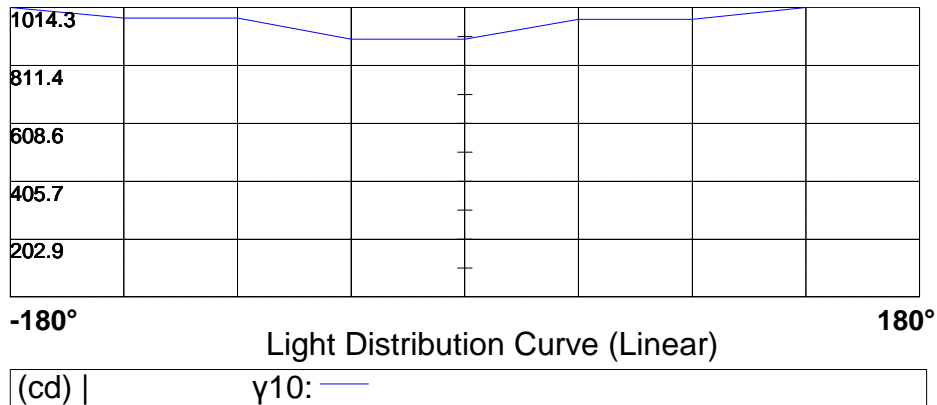
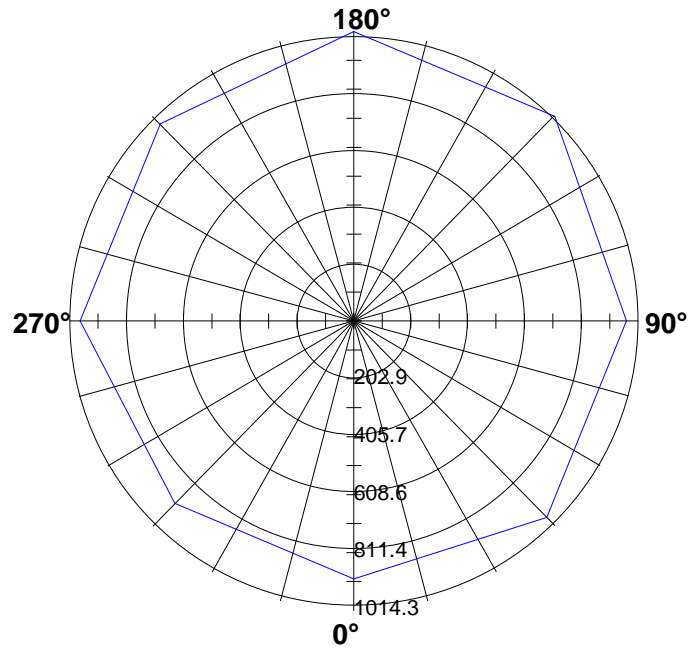
C\G	90.0
0.0	2.4
45.0	2.6
90.0	2.6
135.0	0.0
180.0	0.0
225.0	2.1
270.0	2.1
315.0	2.4
360.0	2.4

Light Distribution Curve [Unit: cd]

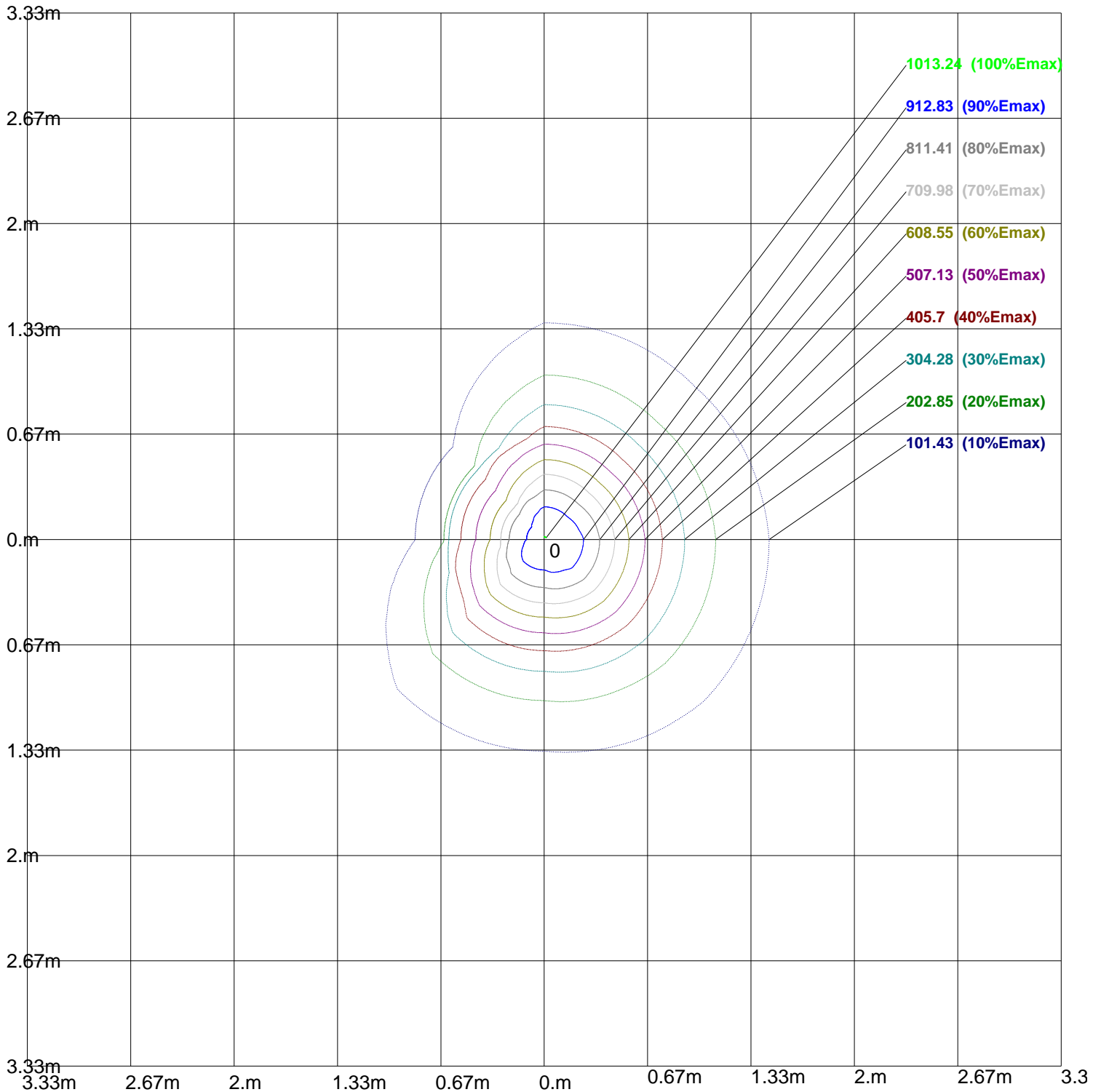
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 1014.26lx

Luminance Limiting Curve

Diameter: 220mm

Length: 220mm

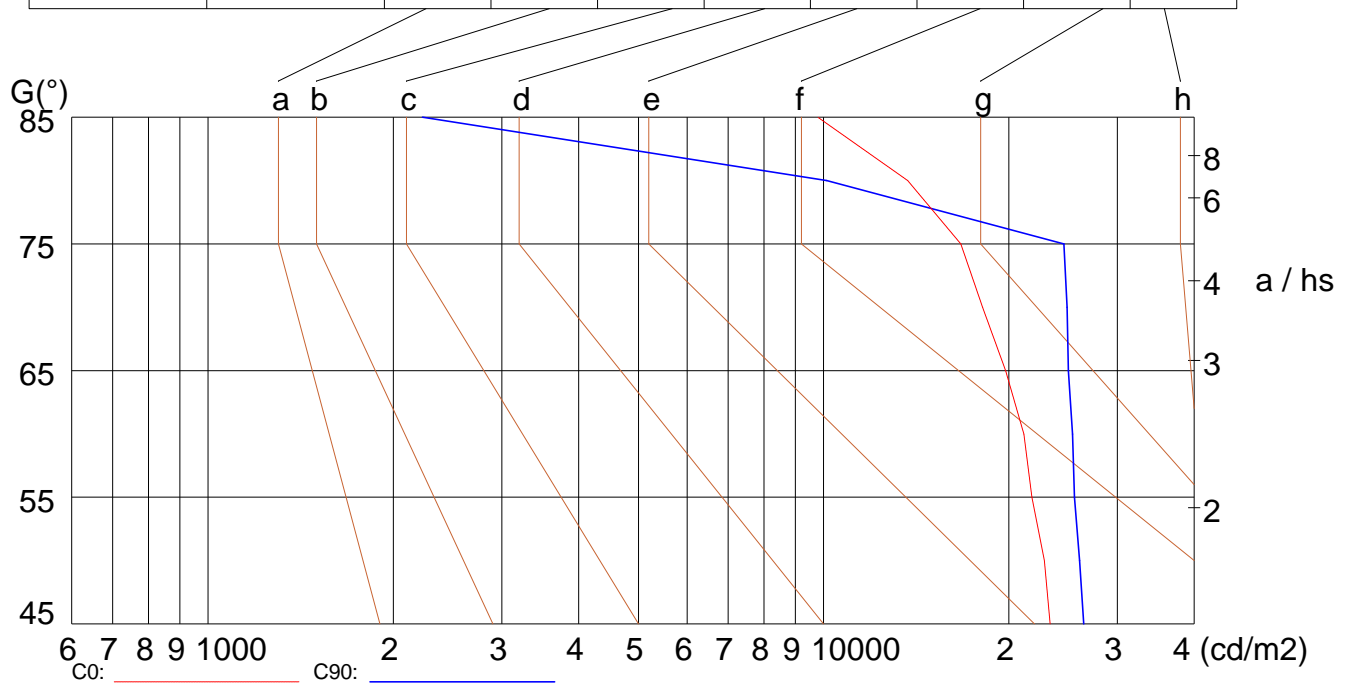
Width: 220mm

Height: 30mm

(cd/m²)

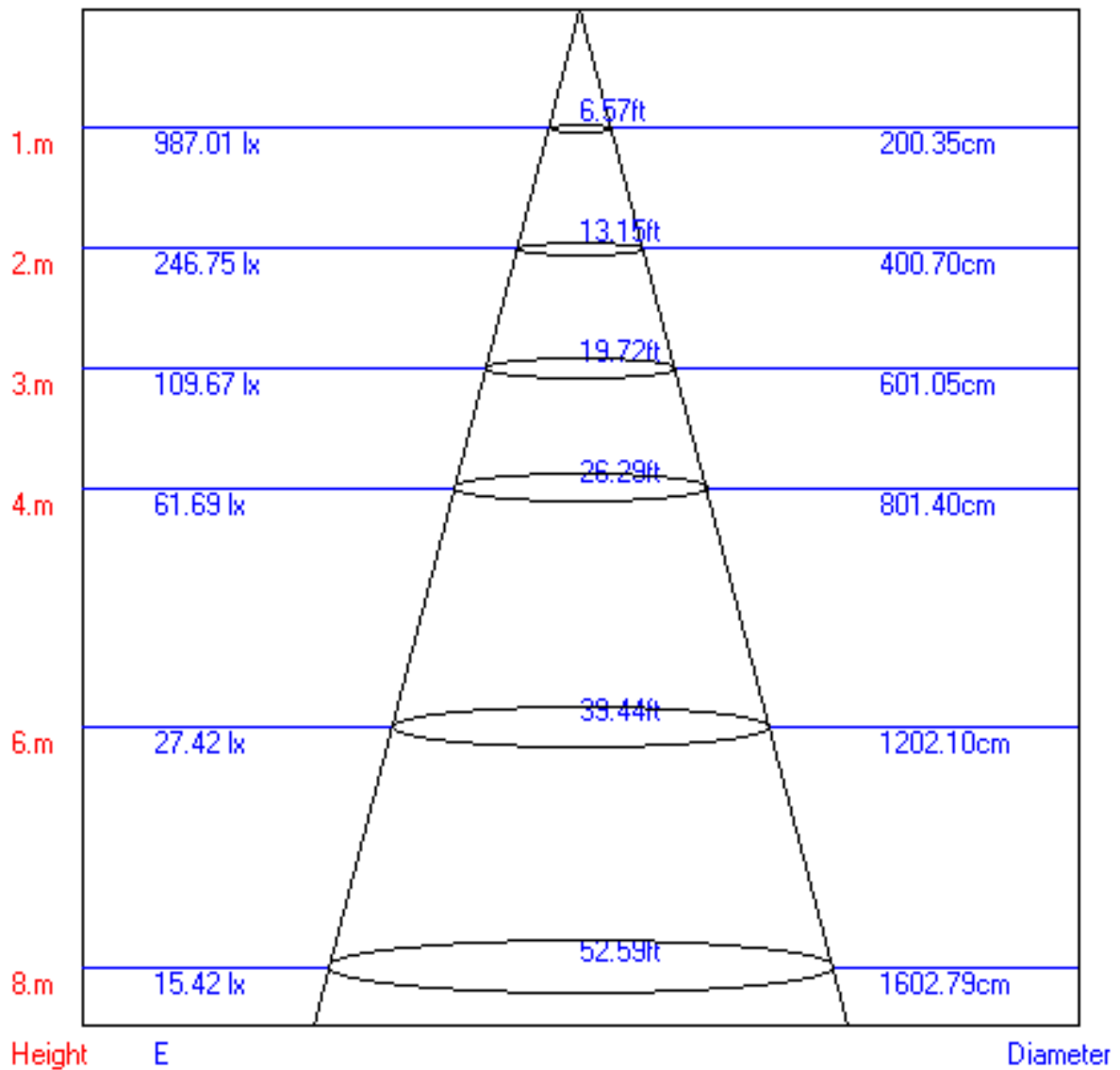
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	23342	22837	21790	21147	19750	18123	16702	13699	9776
C90	26464	26046	25564	25378	24996	24866	24570	10117	2229

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)

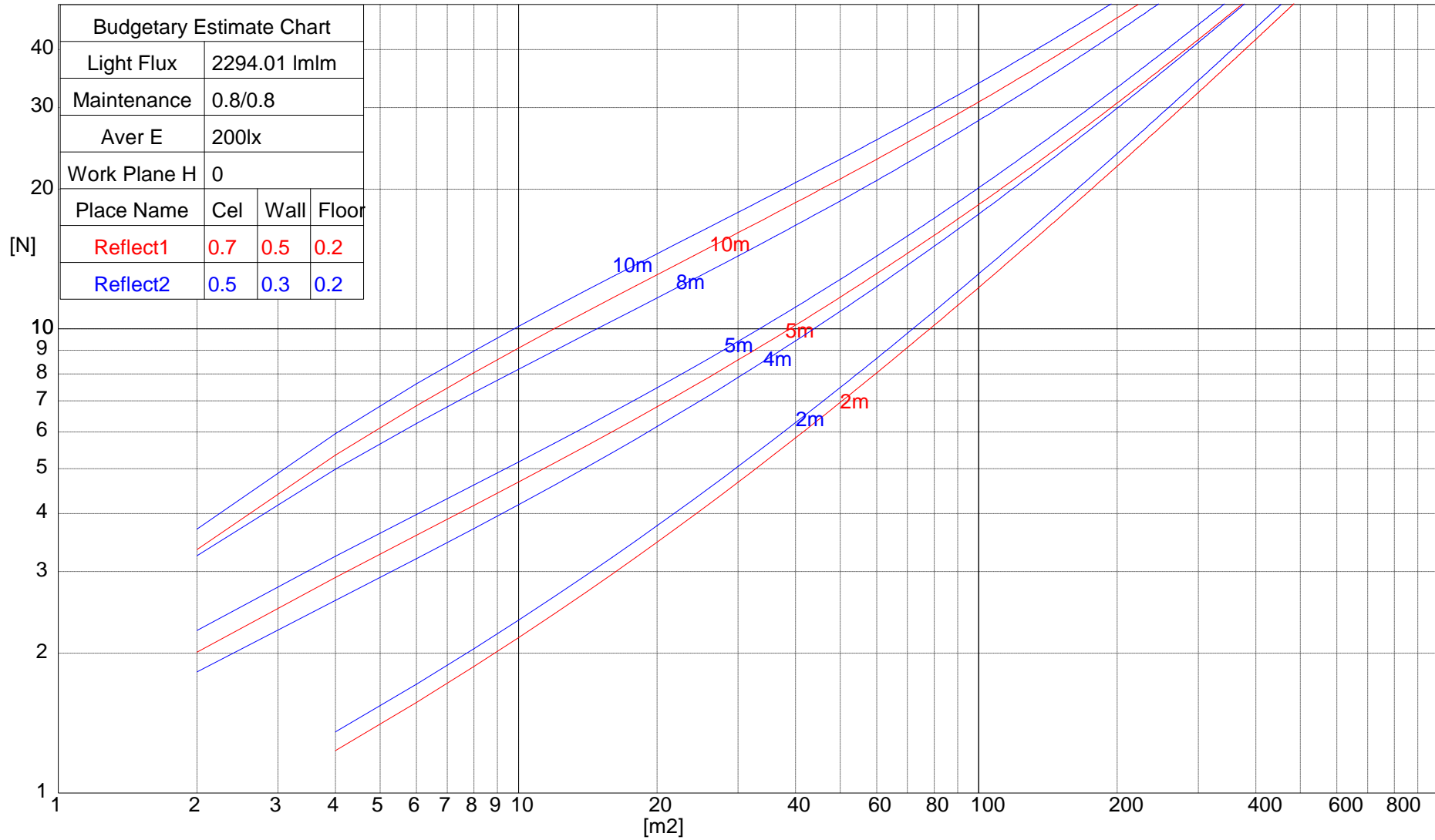
Lux-Distance Curve



Beam Angle:90.10°

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	1.06	1.04	1.03	1.05	1.03	1.01	1.01	0.99	0.97	0.96	0.94	0.92	0.89	0.87	0.85	0.80
2	0.91	0.89	0.87	0.90	0.87	0.85	0.88	0.84	0.82	0.84	0.81	0.77	0.80	0.76	0.72	0.68
3	0.79	0.76	0.74	0.78	0.75	0.73	0.77	0.73	0.70	0.75	0.70	0.66	0.71	0.66	0.62	0.58
4	0.69	0.66	0.64	0.69	0.65	0.63	0.68	0.64	0.60	0.67	0.61	0.57	0.64	0.59	0.54	0.50
5	0.60	0.58	0.56	0.61	0.57	0.55	0.61	0.56	0.53	0.60	0.54	0.50	0.59	0.52	0.47	0.44
6	0.54	0.51	0.49	0.54	0.51	0.48	0.55	0.50	0.46	0.54	0.49	0.44	0.54	0.47	0.42	0.38
7	0.48	0.46	0.44	0.49	0.45	0.43	0.50	0.45	0.41	0.50	0.44	0.40	0.49	0.43	0.38	0.34
8	0.44	0.41	0.40	0.44	0.41	0.39	0.45	0.41	0.37	0.46	0.40	0.36	0.46	0.39	0.34	0.31
9	0.40	0.37	0.36	0.40	0.37	0.35	0.42	0.37	0.34	0.42	0.36	0.32	0.42	0.36	0.31	0.28
10	0.36	0.34	0.33	0.37	0.34	0.32	0.38	0.34	0.31	0.39	0.33	0.30	0.39	0.33	0.28	0.25



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