

Luminaire Property

Luminaire: DL SQ 12W

Report NO.:

Test NO.:

Lamp: 2835

Sum Lumens: 942.48 lm

Number of Lamps: 72

Diameter: mm

Length: 110mm

Photometric Type: Type C

Voltage: 220.0 V

Current: 0.108 A

Power: 11.7 W

Power Factor: 0.992

Ballast Type:

Width: 110mm

Height: mm

Remark:

Photometric Results

Lumens: 942.48 lm

Effective luminous flux: 922.8 lm

Efficiency: N.A

Central Intensity: 470.669cd

Maximum Intensity: 475.929cd

Beam Angle(10%): Left: -64.1 Right:66.9

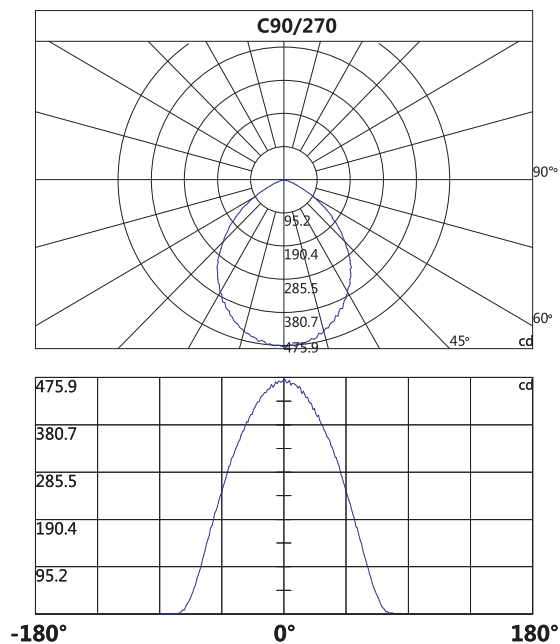
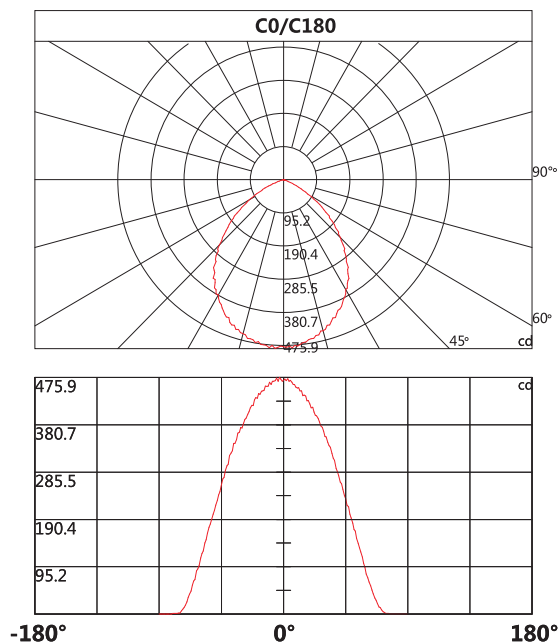
Angle of maximum intensity: C:150.0 G:3.0

Half Peak Side Angle(50%): Left: -44.1 Right:47.2

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	470.7	472.7	469.5	473.8	468.4	470.6	466.3	462.0	462.0	456.7
30.0	470.7	466.3	468.4	469.5	458.8	468.4	464.2	458.8	462.0	457.8
60.0	470.7	466.3	468.4	469.5	458.8	468.4	464.2	458.8	462.0	457.8
90.0	470.7	471.7	465.2	466.3	470.6	461.0	464.2	464.2	462.0	459.9
120.0	470.7	471.7	465.2	466.3	470.6	461.0	464.2	464.2	462.0	459.9
150.0	470.7	468.4	472.7	475.9	468.4	474.9	469.5	468.4	468.4	462.0
180.0	470.7	468.4	472.7	475.9	468.4	474.9	469.5	468.4	468.4	462.0
210.0	470.7	464.2	469.5	466.3	463.1	467.4	459.9	465.2	464.2	456.7
240.0	470.7	464.2	469.5	466.3	463.1	467.4	459.9	465.2	464.2	456.7
270.0	470.7	468.4	466.3	468.4	468.4	464.2	467.4	459.9	456.7	462.0
300.0	470.7	468.4	466.3	468.4	468.4	464.2	467.4	459.9	456.7	462.0
330.0	470.7	472.7	469.5	473.8	468.4	470.6	466.3	462.0	462.0	456.7
360.0	470.7	472.7	469.5	473.8	468.4	470.6	466.3	462.0	462.0	456.7

C\G	10.0	11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0
0.0	454.5	455.6	449.2	449.2	439.6	440.6	438.5	428.9	429.9	422.5
30.0	455.6	454.5	447.1	448.1	441.7	435.3	437.4	432.1	425.7	423.5
60.0	455.6	454.5	447.1	448.1	441.7	435.3	437.4	432.1	425.7	423.5
90.0	454.5	457.8	454.5	443.8	448.1	441.7	435.3	436.4	427.8	424.6
120.0	454.5	457.8	454.5	443.8	448.1	441.7	435.3	436.4	427.8	424.6
150.0	466.3	458.8	457.8	458.8	450.3	449.2	448.1	441.7	443.8	434.2
180.0	466.3	458.8	457.8	458.8	450.3	449.2	448.1	441.7	443.8	434.2
210.0	458.8	455.6	448.1	450.3	440.6	441.7	438.5	433.2	434.2	425.7
240.0	458.8	455.6	448.1	450.3	440.6	441.7	438.5	433.2	434.2	425.7
270.0	454.5	452.4	451.3	446.0	446.0	441.7	438.5	435.3	427.8	426.7
300.0	454.5	452.4	451.3	446.0	446.0	441.7	438.5	435.3	427.8	426.7
330.0	454.5	455.6	449.2	449.2	439.6	440.6	438.5	428.9	429.9	422.5
360.0	454.5	455.6	449.2	449.2	439.6	440.6	438.5	428.9	429.9	422.5

C\G	20.0	21.0	22.0	23.0	24.0	25.0	26.0	27.0	28.0	29.0
0.0	415.0	416.0	406.4	400.0	398.9	393.6	386.1	378.6	375.4	367.9
30.0	418.2	413.9	407.5	406.4	398.9	390.4	391.4	379.7	375.4	371.1
60.0	418.2	413.9	407.5	406.4	398.9	390.4	391.4	379.7	375.4	371.1
90.0	423.5	411.8	413.9	404.3	397.9	400.0	389.3	381.8	378.6	371.1
120.0	423.5	411.8	413.9	404.3	397.9	400.0	389.3	381.8	378.6	371.1
150.0	435.3	431.0	419.3	420.3	415.0	407.5	402.1	394.7	391.4	384.0
180.0	435.3	431.0	419.3	420.3	415.0	407.5	402.1	394.7	391.4	384.0
210.0	420.3	416.0	409.6	408.6	400.0	396.8	392.5	381.8	384.0	372.2
240.0	420.3	416.0	409.6	408.6	400.0	396.8	392.5	381.8	384.0	372.2
270.0	422.5	415.0	411.8	402.1	401.1	395.7	386.1	387.2	378.6	369.0
300.0	422.5	415.0	411.8	402.1	401.1	395.7	386.1	387.2	378.6	369.0
330.0	415.0	416.0	406.4	400.0	398.9	393.6	386.1	378.6	375.4	367.9
360.0	415.0	416.0	406.4	400.0	398.9	393.6	386.1	378.6	375.4	367.9

Photometric Data Table [cd]

C\G	30.0	31.0	32.0	33.0	34.0	35.0	36.0	37.0	38.0	39.0
0.0	357.2	356.2	345.5	339.0	335.8	323.0	313.4	309.1	293.1	286.6
30.0	359.4	357.2	350.8	344.4	335.8	328.3	325.1	314.4	308.0	304.8
60.0	359.4	357.2	350.8	344.4	335.8	328.3	325.1	314.4	308.0	304.8
90.0	365.8	357.2	354.0	349.7	339.0	334.8	326.2	315.5	314.4	302.7
120.0	365.8	357.2	354.0	349.7	339.0	334.8	326.2	315.5	314.4	302.7
150.0	374.3	375.4	365.8	363.6	350.8	343.3	343.3	328.3	324.1	318.7
180.0	374.3	375.4	365.8	363.6	350.8	343.3	343.3	328.3	324.1	318.7
210.0	365.8	364.7	352.9	347.6	341.2	329.4	330.5	318.7	310.2	307.0
240.0	365.8	364.7	352.9	347.6	341.2	329.4	330.5	318.7	310.2	307.0
270.0	366.8	359.4	349.7	346.5	339.0	331.6	324.1	317.7	312.3	299.5
300.0	366.8	359.4	349.7	346.5	339.0	331.6	324.1	317.7	312.3	299.5
330.0	357.2	356.2	345.5	339.0	335.8	323.0	313.4	309.1	293.1	286.6
360.0	357.2	356.2	345.5	339.0	335.8	323.0	313.4	309.1	293.1	286.6

C\G	40.0	41.0	42.0	43.0	44.0	45.0	46.0	47.0	48.0	49.0
0.0	278.1	265.2	262.0	251.3	238.5	232.1	219.2	216.0	201.1	193.6
30.0	289.8	278.1	272.7	257.7	255.6	244.9	231.0	228.9	213.9	202.1
60.0	289.8	278.1	272.7	257.7	255.6	244.9	231.0	228.9	213.9	202.1
90.0	296.3	283.4	277.0	265.2	256.7	248.1	237.4	228.9	222.5	209.6
120.0	296.3	283.4	277.0	265.2	256.7	248.1	237.4	228.9	222.5	209.6
150.0	301.6	298.4	288.8	274.9	271.6	261.0	246.0	239.6	228.9	219.2
180.0	301.6	298.4	288.8	274.9	271.6	261.0	246.0	239.6	228.9	219.2
210.0	297.3	284.5	278.1	269.5	262.0	250.3	243.8	235.3	219.2	216.0
240.0	297.3	284.5	278.1	269.5	262.0	250.3	243.8	235.3	219.2	216.0
270.0	296.3	283.4	274.9	265.2	255.6	244.9	239.6	228.9	218.2	209.6
300.0	296.3	283.4	274.9	265.2	255.6	244.9	239.6	228.9	218.2	209.6
330.0	278.1	265.2	262.0	251.3	238.5	232.1	219.2	216.0	201.1	193.6
360.0	278.1	265.2	262.0	251.3	238.5	232.1	219.2	216.0	201.1	193.6

C\G	50.0	51.0	52.0	53.0	54.0	55.0	56.0	57.0	58.0	59.0
0.0	182.9	170.1	166.8	151.9	142.2	133.7	125.1	114.4	101.6	94.1
30.0	195.7	187.2	176.5	164.7	158.3	147.6	133.7	127.3	113.4	104.8
60.0	195.7	187.2	176.5	164.7	158.3	147.6	133.7	127.3	113.4	104.8
90.0	200.0	192.5	176.5	173.3	162.6	149.7	143.3	130.5	117.6	110.2
120.0	200.0	192.5	176.5	173.3	162.6	149.7	143.3	130.5	117.6	110.2
150.0	208.6	201.1	190.4	180.7	174.3	162.6	149.7	143.3	127.3	121.9
180.0	208.6	201.1	190.4	180.7	174.3	162.6	149.7	143.3	127.3	121.9
210.0	206.4	190.4	185.0	176.5	163.6	157.2	147.6	135.8	125.1	117.6
240.0	206.4	190.4	185.0	176.5	163.6	157.2	147.6	135.8	125.1	117.6
270.0	203.2	190.4	178.6	173.3	158.3	150.8	143.3	128.3	118.7	110.2
300.0	203.2	190.4	178.6	173.3	158.3	150.8	143.3	128.3	118.7	110.2
330.0	182.9	170.1	166.8	151.9	142.2	133.7	125.1	114.4	101.6	94.1
360.0	182.9	170.1	166.8	151.9	142.2	133.7	125.1	114.4	101.6	94.1

Photometric Data Table [cd]

C\G	60.0	61.0	62.0	63.0	64.0	65.0	66.0	67.0	68.0	69.0
0.0	80.2	72.7	64.2	56.7	48.1	40.6	32.1	27.8	21.4	13.9
30.0	97.3	84.5	74.9	69.5	56.7	52.4	46.0	34.2	28.9	22.5
60.0	97.3	84.5	74.9	69.5	56.7	52.4	46.0	34.2	28.9	22.5
90.0	100.5	89.8	79.1	72.7	61.0	52.4	46.0	39.6	33.2	27.8
120.0	100.5	89.8	79.1	72.7	61.0	52.4	46.0	39.6	33.2	27.8
150.0	112.3	97.3	90.9	86.6	69.5	66.3	57.8	46.0	39.6	33.2
180.0	112.3	97.3	90.9	86.6	69.5	66.3	57.8	46.0	39.6	33.2
210.0	105.9	96.3	88.8	75.9	68.5	58.8	50.3	43.9	35.3	26.7
240.0	105.9	96.3	88.8	75.9	68.5	58.8	50.3	43.9	35.3	26.7
270.0	95.2	87.7	79.1	70.6	58.8	53.5	42.8	37.4	30.0	24.6
300.0	95.2	87.7	79.1	70.6	58.8	53.5	42.8	37.4	30.0	24.6
330.0	80.2	72.7	64.2	56.7	48.1	40.6	32.1	27.8	21.4	13.9
360.0	80.2	72.7	64.2	56.7	48.1	40.6	32.1	27.8	21.4	13.9

C\G	70.0	71.0	72.0	73.0	74.0	75.0	76.0	77.0	78.0	79.0
0.0	12.8	8.5	4.3	3.2	1.1	1.1	1.1	0.0	0.0	0.0
30.0	20.3	12.8	10.7	7.5	4.3	4.3	2.1	2.1	1.1	1.1
60.0	20.3	12.8	10.7	7.5	4.3	4.3	2.1	2.1	1.1	1.1
90.0	20.3	15.0	11.8	8.5	4.3	4.3	2.1	2.1	2.1	2.1
120.0	20.3	15.0	11.8	8.5	4.3	4.3	2.1	2.1	2.1	2.1
150.0	24.6	17.1	12.8	9.6	6.4	2.1	2.1	1.1	1.1	1.1
180.0	24.6	17.1	12.8	9.6	6.4	2.1	2.1	1.1	1.1	1.1
210.0	22.5	19.3	12.8	9.6	9.6	4.3	3.2	3.2	2.1	1.1
240.0	22.5	19.3	12.8	9.6	9.6	4.3	3.2	3.2	2.1	1.1
270.0	20.3	16.0	8.5	8.5	6.4	2.1	2.1	1.1	0.0	0.0
300.0	20.3	16.0	8.5	8.5	6.4	2.1	2.1	1.1	0.0	0.0
330.0	12.8	8.5	4.3	3.2	1.1	1.1	1.1	0.0	0.0	0.0
360.0	12.8	8.5	4.3	3.2	1.1	1.1	1.1	0.0	0.0	0.0

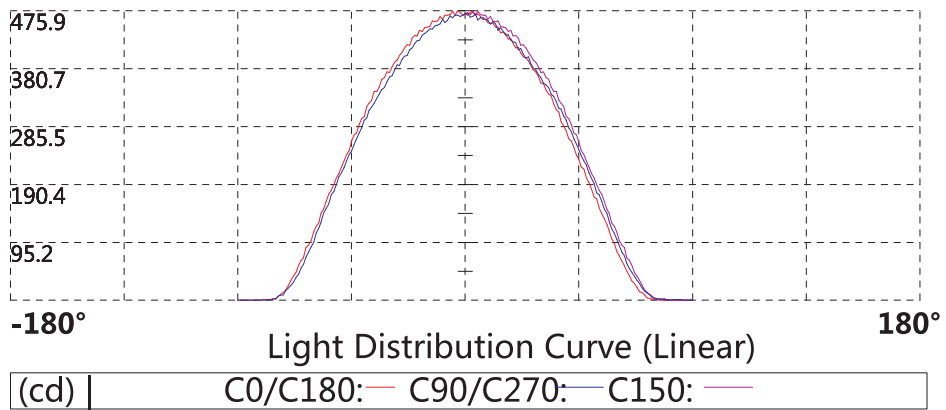
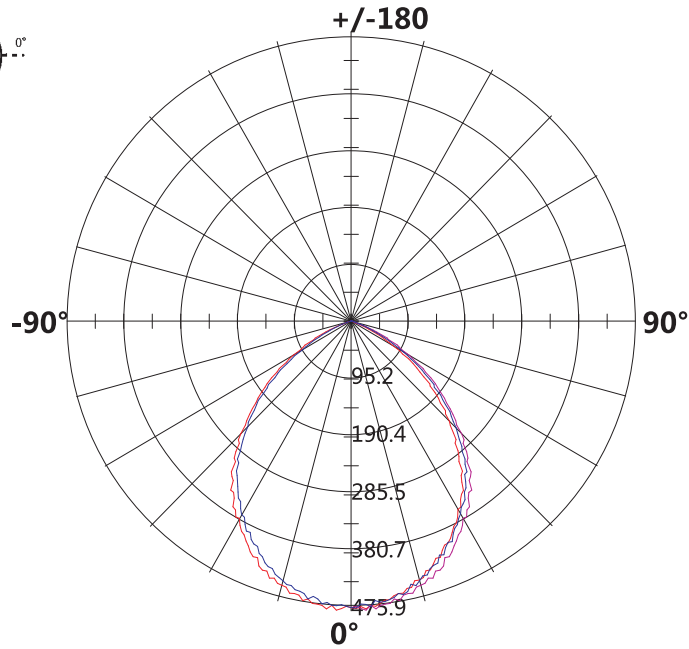
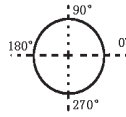
C\G	80.0	81.0	82.0	83.0	84.0	85.0	86.0	87.0	88.0	89.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
60.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
90.0	0.0	0.0	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
120.0	0.0	0.0	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
150.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180.0	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
210.0	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
240.0	1.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
270.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
300.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
330.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
360.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Photometric Data Table [cd]

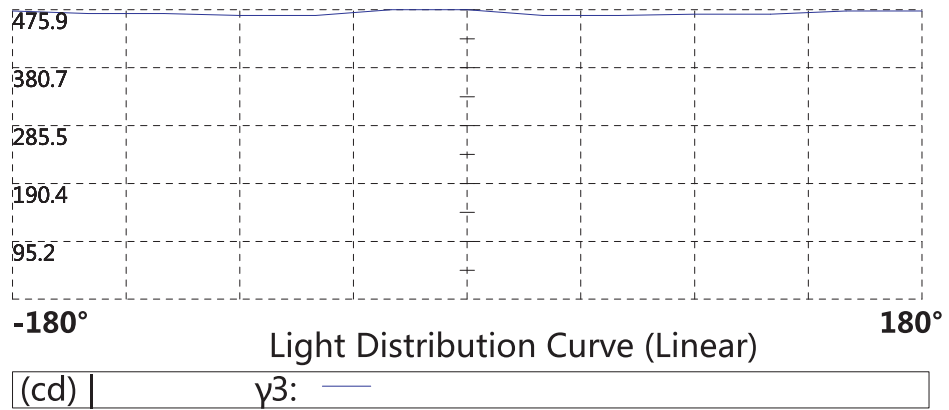
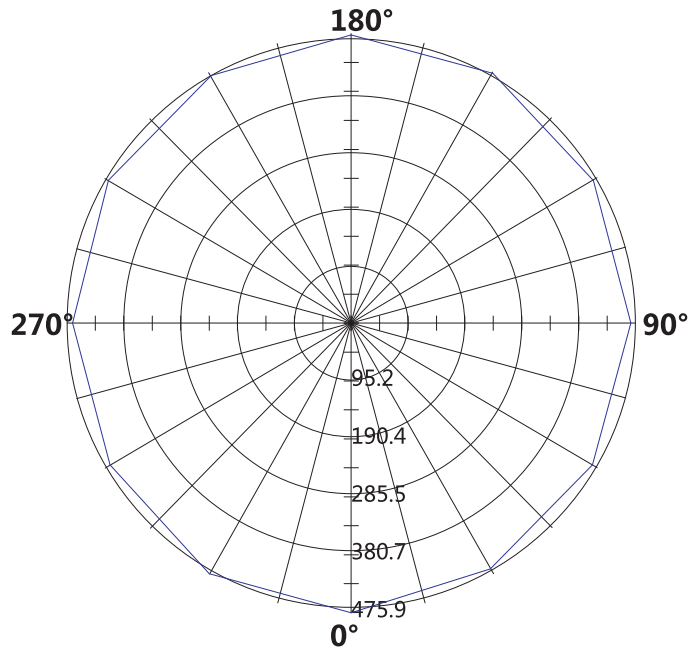
C\G	90.0
0.0	0.0
30.0	0.0
60.0	0.0
90.0	0.0
120.0	0.0
150.0	0.0
180.0	0.0
210.0	0.0
240.0	0.0
270.0	0.0
300.0	0.0
330.0	0.0
360.0	0.0

Light Distribution Curve [Unit: cd]

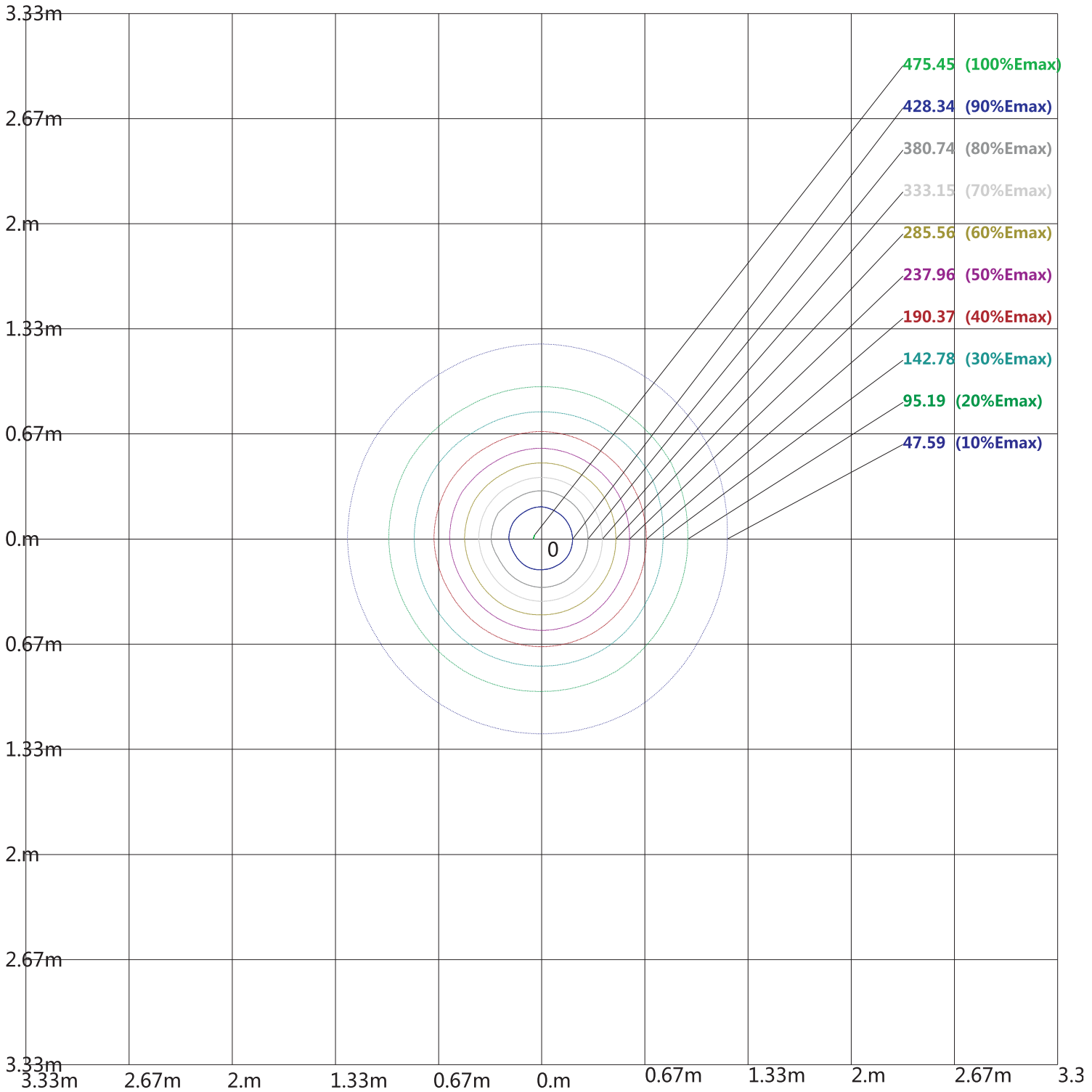
Luminaire



Max Plane Light Distribution Curve [Unit: cd]



Iso-Lux[lx]



Height: 1 m
Max Illuminance : 475.93lx

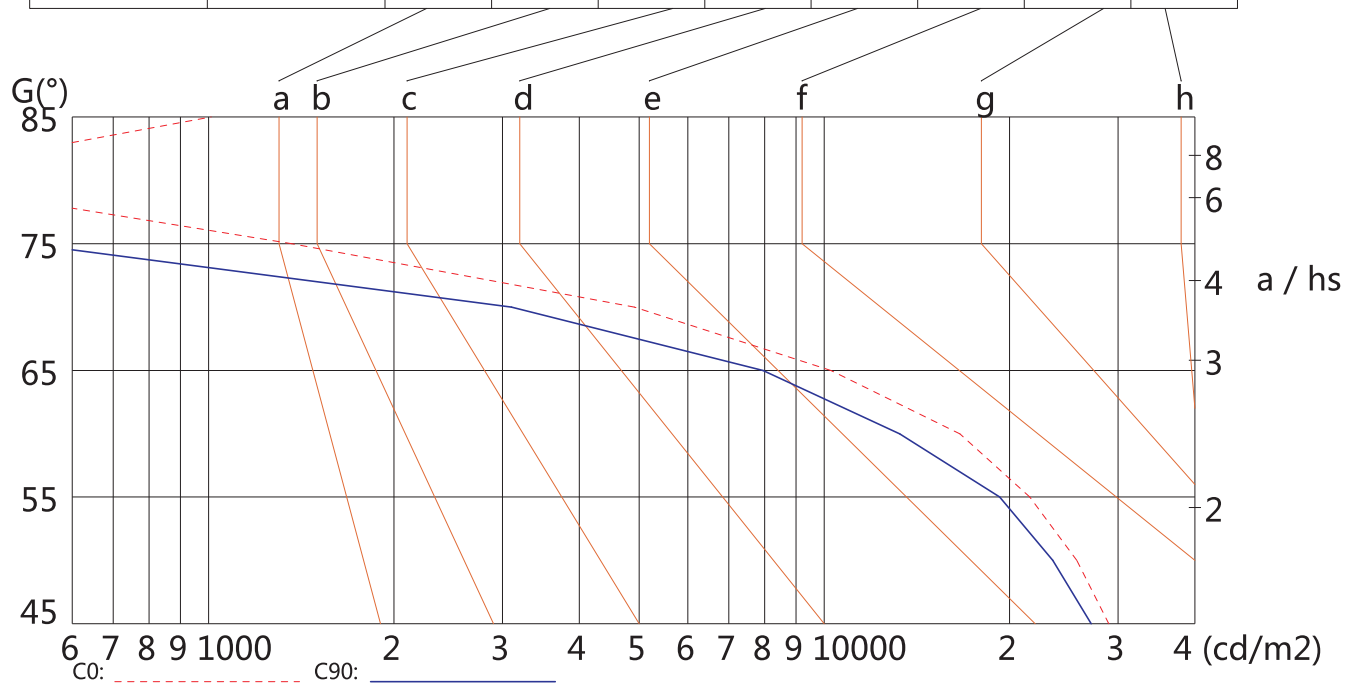
Luminance Limiting Curve

Diameter: mm
Length: 110mm
Width: 110mm
Height: mm

(cd/m²)

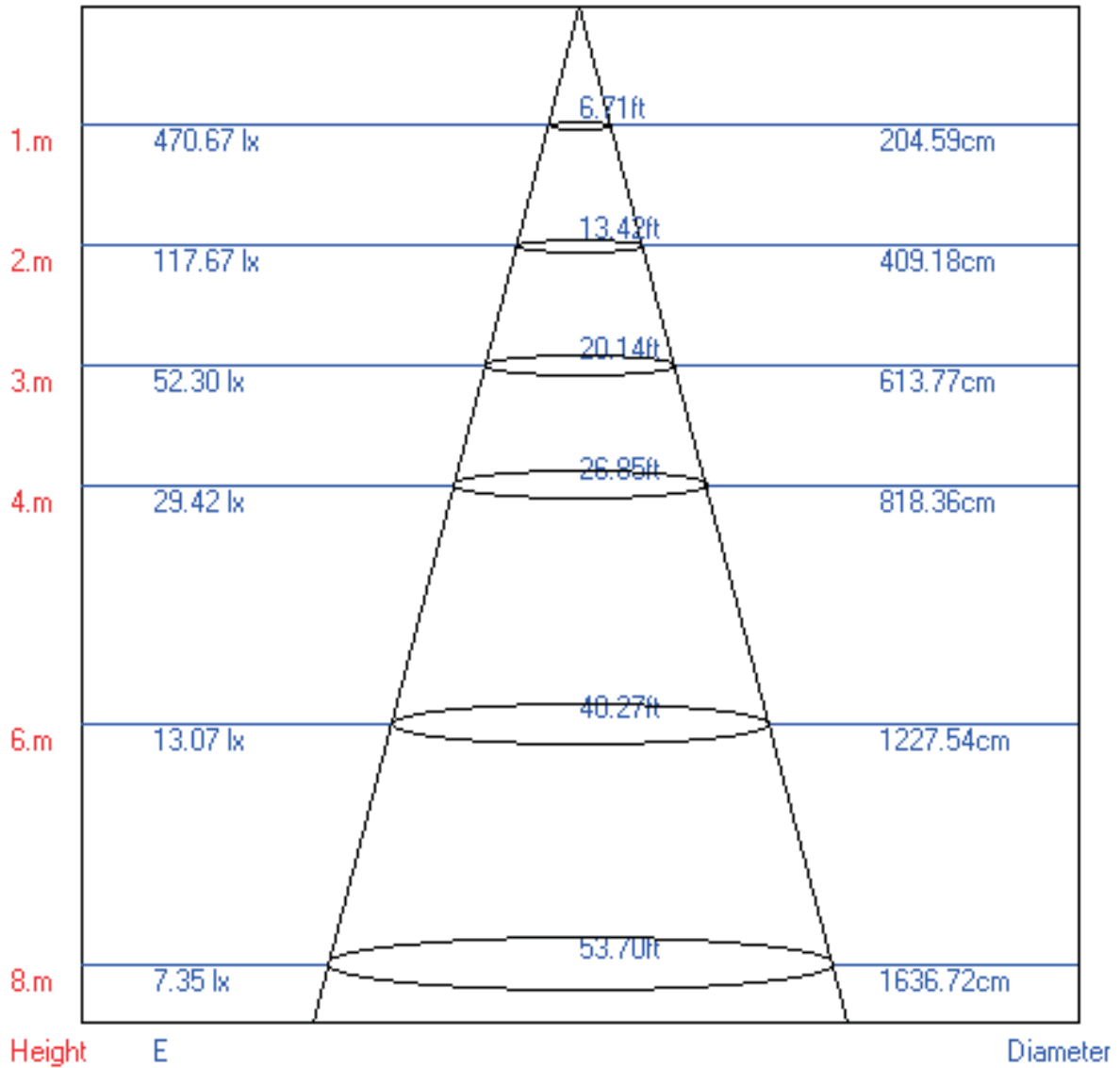
γ	45°	50°	55°	60°	65°	70°	75°	80°	85°
C0	29001	25715	21574	16617	10248	4911	1365		
C90	27126	23515	19264	13258	7949	3103	340		

Glare	Quality	Service Values Illuminance (lx)							
		2000	1000	500	≤300				
1.15	A								
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

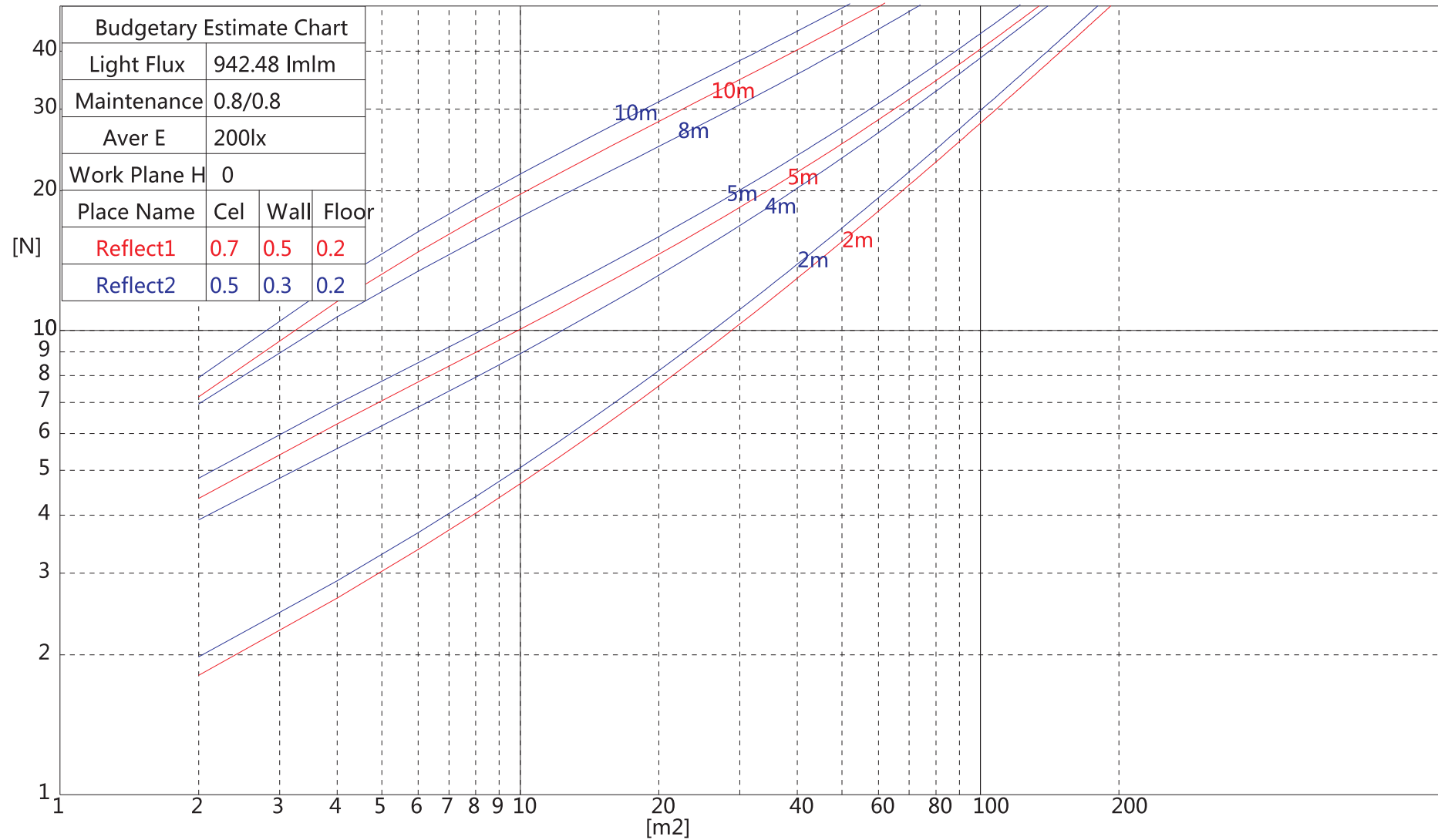


Beam Angle:91.30

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	1.10	1.08	1.07	1.08	1.07	1.05	1.04	1.03	1.01	0.99	0.97	0.96	0.92	0.90	0.89	0.84
2	0.97	0.95	0.94	0.96	0.94	0.92	0.93	0.90	0.88	0.89	0.86	0.84	0.84	0.81	0.78	0.73
3	0.86	0.84	0.82	0.85	0.82	0.80	0.83	0.80	0.77	0.80	0.76	0.73	0.76	0.72	0.68	0.64
4	0.76	0.74	0.72	0.76	0.73	0.71	0.75	0.71	0.68	0.73	0.68	0.64	0.70	0.65	0.60	0.56
5	0.68	0.65	0.64	0.68	0.65	0.62	0.67	0.63	0.60	0.66	0.61	0.57	0.64	0.58	0.54	0.50
6	0.61	0.58	0.57	0.61	0.58	0.56	0.61	0.56	0.53	0.60	0.55	0.51	0.58	0.53	0.48	0.44
7	0.55	0.52	0.51	0.55	0.52	0.50	0.55	0.51	0.48	0.55	0.49	0.45	0.54	0.48	0.43	0.40
8	0.50	0.47	0.46	0.50	0.47	0.45	0.51	0.46	0.43	0.50	0.45	0.41	0.50	0.44	0.39	0.36
9	0.45	0.43	0.42	0.46	0.43	0.41	0.46	0.42	0.39	0.47	0.41	0.37	0.46	0.40	0.36	0.33
10	0.41	0.39	0.38	0.42	0.39	0.37	0.43	0.39	0.36	0.43	0.38	0.34	0.43	0.37	0.33	0.30

SUPERLIGHT
LED test report



Equipment:LINKCOLOR LCG-GONIO
Temperature:25 Deg

Date:2018-08-22
Humidity:60%

Operator:Ms.Delia

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