

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P936288

Luminaire Tested: SQ4-FB-025U-050D-B2750-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936288
REPORT IS A COMBINATION OF REPORTS P933445 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-050D-B2750-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

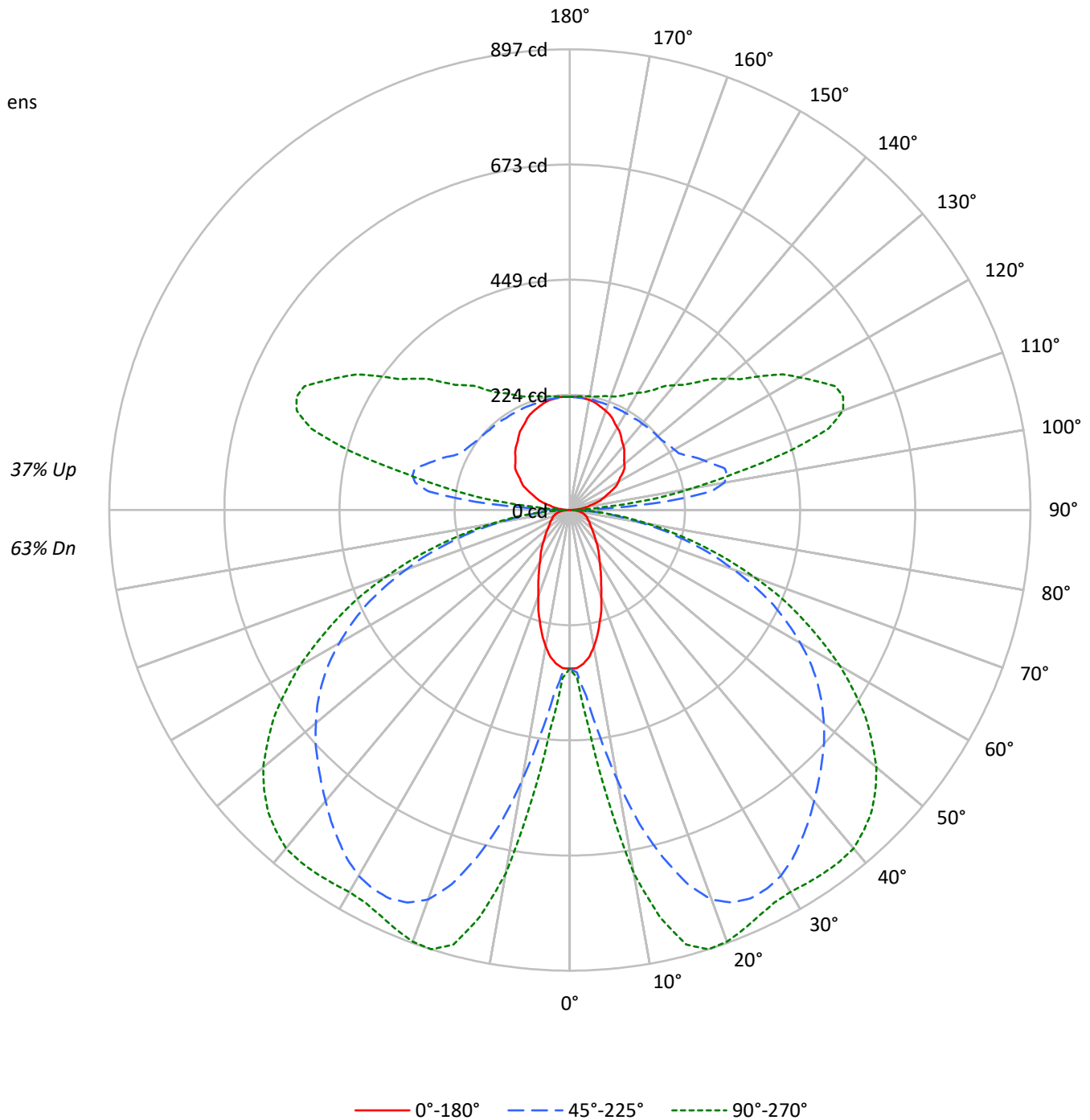
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3817.8 lumens
Efficiency: N/A
Efficacy: 115.7 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P936288
CATALOG NUMBER: SQ4-FB-025U-050D-B2750-1D-UNV-STD-W-6-3000K

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	63
1	100	95	91	87	93	89	86	82	78	75	73	68	66	64	59	57	56	51
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46	42
3	82	72	64	57	76	67	60	55	59	53	49	51	47	43	44	41	38	34
4	75	63	54	48	69	59	52	46	52	46	41	45	40	37	39	35	32	29
5	68	56	47	41	63	52	45	39	46	40	35	40	35	31	35	31	28	24
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24	21
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21	18
8	53	40	32	26	50	38	31	25	34	27	23	30	24	21	26	22	18	16
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	24	19	16	14
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1908	1908	1908
5°	1863	2204	2565
10°	1690	3213	4252
15°	1435	4197	5135
20°	1169	4862	5233
25°	975	5087	5126
30°	821	5118	5117
35°	726	5031	5249
40°	632	4920	5386
45°	572	4837	5407
50°	524	4762	5317
55°	501	4654	5082
60°	513	4448	4710
65°	533	4136	4197
70°	566	3604	3547
75°	626	2936	2768
80°	677	2033	1865
85°	596	1079	955

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5407 cd/sqm



TEST NUMBER: P936288

CATALOG NUMBER: SQ4-FB-025U-050D-B2750-1D-UNV-STD-W-6-3000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	1.0
10°-20°	176.8	4.6
20°-30°	309.3	8.1
30°-40°	398.2	10.4
40°-50°	444.7	11.6
50°-60°	426.0	11.2
60°-70°	337.6	8.8
70°-80°	198.5	5.2
80°-90°	56.0	1.5
90°-100°	107.6	2.8
100°-110°	282.9	7.4
110°-120°	293.3	7.7
120°-130°	235.3	6.2
130°-140°	184.6	4.8
140°-150°	141.7	3.7
150°-160°	102.0	2.7
160°-170°	62.4	1.6
170°-180°	21.1	0.6
0°-30°	526.0	13.8
0°-40°	924.2	24.2
0°-60°	1794.9	47.0
0°-90°	2387.0	62.5
90°-120°	683.7	17.9
90°-150°	1245.2	32.6
90°-180°	1431.0	37.5
0°-180°	3817.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	308	308	308	308	308	
5°	300	322	363	411	426	28
15°	225	416	700	849	876	63
25°	144	471	834	871	872	66
35°	97	450	785	830	863	61
45°	66	359	694	795	831	51
55°	48	228	589	684	703	43
65°	38	121	437	492	499	37
75°	28	74	240	264	265	29
85°	10	23	60	66	66	11
90°	2	4	11	6	6	2
95°	14	56	185	96	65	16
105°	51	77	313	475	443	54
115°	90	110	250	500	570	89
125°	126	141	228	385	454	112
135°	150	165	221	311	352	116
145°	174	185	218	265	286	109
155°	197	202	218	239	246	90
165°	212	215	218	226	229	60
175°	221	221	219	222	222	21
180°	221	221	221	221	221	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	308.4	308.4	308.4	308.4	308.4	308.4	308.4	308.4	308.4	308.4	308.4
2.5°	308.4	308.4	310.4	311.4	313.4	314.4	316.4	318.4	324.3	325.3	327.3
5°	300.5	304.5	317.4	322.3	336.2	355.1	362.9	375.9	402.7	410.6	415.6
7.5°	288.6	297.6	329.2	337.2	371.9	421.5	442.3	470.1	512.7	533.6	550.5
10°	269.8	288.6	345.1	364.0	420.5	495.9	534.6	573.3	637.7	666.4	677.4
12.5°	249.0	279.7	362.0	387.8	469.1	579.2	625.8	668.5	741.9	780.5	786.4
15°	225.1	266.8	377.8	415.6	520.7	648.6	700.2	752.8	821.2	848.9	855.9
17.5°	204.3	256.9	392.7	432.5	560.3	711.1	763.7	807.3	862.8	881.7	886.6
20°	178.6	241.0	402.7	454.3	602.1	756.8	807.3	841.1	878.7	890.7	892.6
22.5°	159.6	224.1	408.6	462.1	629.8	784.5	827.2	853.9	879.7	883.7	884.6
25°	143.9	205.3	407.6	471.1	653.6	801.3	834.1	853.9	868.8	870.7	870.7
27.5°	129.0	184.5	403.7	473.1	671.5	805.4	831.1	845.0	851.9	855.9	855.9
30°	116.1	164.7	393.7	469.1	679.4	801.3	822.2	829.1	836.0	842.0	845.0
32.5°	106.1	145.8	378.8	461.2	680.3	791.5	806.4	810.3	820.2	834.1	839.1
35°	97.2	127.0	362.0	450.3	674.4	775.6	785.4	789.5	809.3	830.1	837.0
37.5°	88.2	113.1	340.2	431.5	665.5	756.8	763.7	770.7	801.3	826.2	834.1
40°	79.4	101.2	314.4	410.6	651.6	733.9	739.9	750.7	791.5	820.2	828.1
42.5°	72.4	91.2	286.6	388.8	633.7	708.1	717.0	732.9	779.5	810.3	819.2
45°	66.5	81.3	256.9	359.0	610.9	681.3	694.2	716.0	765.6	795.4	803.3
47.5°	60.5	74.3	226.1	328.2	586.2	654.6	671.5	696.2	746.8	775.6	782.5
50°	55.5	67.4	195.4	295.5	559.4	625.8	645.6	671.5	723.0	749.8	758.7
52.5°	51.6	61.5	166.6	262.9	528.6	596.0	618.9	645.6	694.2	720.1	726.0
55°	47.6	56.5	141.8	228.1	496.8	564.3	589.1	614.9	662.5	684.3	688.3
57.5°	45.7	52.6	121.0	195.4	463.1	528.6	556.4	580.2	624.8	641.7	645.6
60°	42.7	49.6	105.1	167.6	426.4	494.9	518.7	542.5	580.2	594.1	597.0
62.5°	39.6	47.6	93.3	140.8	388.8	455.2	479.0	500.9	532.5	542.5	546.4
65°	37.7	45.7	84.3	121.0	350.1	413.5	437.4	456.2	482.0	491.9	493.9
67.5°	35.7	43.7	77.4	104.1	311.4	371.9	389.8	407.6	427.4	437.4	438.4
70°	32.7	41.6	71.4	92.2	271.7	324.3	339.2	358.0	373.9	378.8	381.9
72.5°	30.8	38.7	67.4	83.3	231.1	278.6	292.5	303.5	317.4	322.3	322.3
75°	27.8	34.7	63.5	74.3	189.4	228.1	240.0	250.9	261.8	263.9	260.8
77.5°	24.7	30.8	54.5	62.5	147.8	180.5	190.4	196.4	205.3	207.3	208.2
80°	20.8	26.8	42.7	48.6	107.1	132.9	139.8	144.8	152.7	152.7	154.7
82.5°	15.9	20.8	30.8	34.7	72.4	91.2	97.2	100.2	105.1	105.1	105.1
85°	10.0	12.9	19.8	22.8	43.7	55.5	59.6	60.5	64.5	65.5	65.5
87.5°	4.9	6.9	12.9	13.9	22.8	28.8	28.8	30.8	30.8	29.8	28.8
90°	1.5	2.7	3.8	4.1	6.5	9.7	11.2	10.0	7.5	5.6	5.6
92.5°	5.9	16.0	26.0	28.6	40.2	55.7	63.4	55.5	39.8	28.1	27.0
95°	14.2	32.6	51.1	55.7	98.9	156.5	185.3	165.4	125.4	95.5	92.2
97.5°	24.6	40.8	57.1	61.1	133.2	229.2	277.3	264.6	239.5	220.6	214.2
100°	32.6	47.3	62.1	65.8	145.7	252.3	305.6	306.4	308.3	309.7	302.0
102.5°	39.4	53.2	66.9	70.4	151.4	259.5	313.5	329.6	361.8	385.9	379.3
105°	51.0	62.6	74.2	77.2	155.7	260.3	312.7	348.6	420.7	474.8	471.2
107.5°	62.8	73.7	84.5	87.3	156.5	248.8	294.9	345.2	445.7	521.0	521.9
110°	70.8	80.7	90.4	92.9	155.3	238.5	280.1	336.3	448.6	532.8	536.5



TEST NUMBER: P936288

CATALOG NUMBER: SQ4-FB-025U-050D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	78.7	88.0	97.3	99.7	155.3	229.5	266.6	324.1	439.1	525.2	530.9
115°	90.5	99.2	107.8	109.9	156.8	219.2	250.4	305.9	416.6	499.6	507.5
117.5°	102.2	110.0	117.8	119.8	159.6	212.8	239.4	289.4	389.3	464.2	472.9
120°	109.1	116.4	123.7	125.6	162.1	210.7	235.0	280.6	371.9	440.4	448.9
122.5°	115.7	123.2	130.5	132.4	165.5	209.5	231.5	272.6	354.9	416.6	425.0
125°	125.9	132.7	139.5	141.2	170.1	208.6	227.9	262.8	332.7	385.0	392.7
127.5°	134.2	141.0	147.9	149.6	174.6	208.0	224.7	254.7	314.7	359.7	366.2
130°	138.6	146.0	153.3	155.2	178.0	208.3	223.5	250.2	303.6	343.6	349.6
132.5°	143.3	150.7	158.0	159.8	180.7	208.6	222.5	246.4	294.2	330.0	335.3
135°	150.1	156.8	163.5	165.2	183.7	208.4	220.8	240.8	280.8	310.8	315.4
137.5°	157.1	163.7	170.3	172.0	188.1	209.7	220.5	237.4	271.2	296.6	300.3
140°	162.8	168.9	175.0	176.6	190.9	209.9	219.4	234.0	263.3	285.2	288.7
142.5°	167.2	172.8	178.6	179.9	193.1	210.6	219.4	232.2	257.9	277.2	280.2
145°	174.0	179.0	183.9	185.2	196.1	210.6	217.9	228.4	249.4	265.1	267.4
147.5°	180.8	185.7	190.5	191.7	200.5	212.1	217.9	226.2	242.7	255.1	257.0
150°	185.3	189.6	194.0	195.1	202.7	212.9	217.9	224.9	238.8	249.3	250.8
152.5°	189.9	193.2	196.5	197.3	204.2	213.4	217.9	223.8	235.8	244.7	245.9
155°	196.7	199.2	201.6	202.2	207.5	214.5	217.9	222.6	232.1	239.2	240.0
157.5°	201.7	204.1	206.5	207.1	210.7	215.5	217.9	221.6	228.9	234.5	235.1
160°	205.2	207.1	208.8	209.3	212.2	216.0	217.9	221.1	227.4	232.1	232.4
162.5°	208.5	209.9	211.3	211.7	213.8	216.5	217.9	220.6	225.9	229.9	230.2
165°	212.3	213.5	214.8	215.0	216.0	217.3	217.9	219.8	223.6	226.5	226.8
167.5°	215.6	216.2	216.8	217.0	217.8	218.9	219.4	220.7	223.1	225.0	225.1
170°	217.9	218.5	219.1	219.2	219.3	219.4	219.4	220.7	223.1	225.0	225.0
172.5°	219.1	219.2	219.4	219.4	219.4	219.4	219.4	220.4	222.3	223.8	223.7
175°	220.8	220.8	220.8	220.8	220.3	219.7	219.4	220.0	221.3	222.2	222.2
177.5°	220.8	220.8	220.8	220.8	220.4	219.9	219.7	220.2	221.2	221.9	221.8
180°	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8	220.8



TEST NUMBER: P936288

CATALOG NUMBER: SQ4-FB-025U-050D-B2750-1D-UNV-STD-W-6-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	308.4	308.4
2.5°	329.2	327.3
5°	423.5	425.5
7.5°	570.3	569.3
10°	709.1	718.0
12.5°	810.3	812.3
15°	871.8	875.8
17.5°	895.6	896.6
20°	896.6	894.6
22.5°	885.6	883.7
25°	872.8	871.8
27.5°	860.9	861.9
30°	855.9	858.9
32.5°	855.9	860.9
35°	857.9	862.8
37.5°	856.9	862.8
40°	852.9	859.9
42.5°	842.0	847.0
45°	825.2	831.1
47.5°	803.3	807.3
50°	775.6	779.5
52.5°	740.9	741.9
55°	699.2	703.2
57.5°	654.6	655.6
60°	605.0	608.0
62.5°	552.5	552.5
65°	496.8	498.8
67.5°	439.4	444.3
70°	380.9	381.9
72.5°	323.3	323.3
75°	263.9	264.8
77.5°	207.3	207.3
80°	153.7	154.7
82.5°	106.1	108.1
85°	66.5	66.5
87.5°	30.8	27.8
90°	5.6	5.6
92.5°	22.5	18.0
95°	78.6	65.1
97.5°	188.3	162.5
100°	271.3	240.6
102.5°	353.0	326.7
105°	457.1	442.9
107.5°	525.2	528.7
110°	551.3	566.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	553.5	576.2
115°	538.8	570.3
117.5°	507.8	542.6
120°	482.7	516.6
122.5°	458.3	491.6
125°	423.4	454.2
127.5°	392.1	418.1
130°	373.6	397.6
132.5°	356.8	378.3
135°	333.9	352.4
137.5°	315.5	330.6
140°	302.8	317.0
142.5°	292.3	304.6
145°	276.7	285.9
147.5°	264.6	272.2
150°	257.1	263.3
152.5°	250.5	255.3
155°	243.0	246.2
157.5°	237.2	239.4
160°	233.7	235.0
162.5°	231.4	232.6
165°	228.1	229.3
167.5°	225.7	226.2
170°	225.0	225.0
172.5°	223.2	222.8
175°	222.2	222.2
177.5°	221.3	220.8
180°	220.8	220.8



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	4.31	5.35	5.14	6.21	7.29	17.48	18.51	18.31	19.37	20.45
	3H	5.03	5.96	5.87	6.84	7.94	19.32	20.26	20.17	21.13	22.23
	4H	5.34	6.22	6.20	7.10	8.21	19.97	20.86	20.83	21.74	22.85
	6H	5.60	6.41	6.47	7.30	8.43	20.41	21.23	21.28	22.11	23.24
	8H	5.67	6.45	6.55	7.35	8.48	20.53	21.31	21.41	22.22	23.34
	12H	5.69	6.44	6.58	7.33	8.49	20.60	21.35	21.49	22.24	23.40
4H	2H	11.54	12.42	12.40	13.30	14.42	17.77	18.66	18.64	19.53	20.65
	3H	13.12	13.86	14.00	14.77	15.90	19.83	20.57	20.71	21.48	22.61
	4H	13.23	13.90	14.12	14.81	15.96	20.60	21.28	21.49	22.18	23.34
	6H	13.25	13.83	14.15	14.76	15.92	21.15	21.73	22.05	22.66	23.82
	8H	13.23	13.78	14.14	14.70	15.87	21.31	21.86	22.22	22.78	23.95
	12H	13.19	13.69	14.12	14.63	15.81	21.41	21.91	22.34	22.85	24.03
8H	4H	14.68	15.23	15.59	16.16	17.33	20.68	21.22	21.58	22.15	23.32
	6H	14.93	15.39	15.87	16.35	17.53	21.31	21.76	22.24	22.73	23.90
	8H	14.95	15.36	15.90	16.31	17.50	21.53	21.93	22.47	22.89	24.08
	12H	14.93	15.29	15.88	16.24	17.47	21.68	22.03	22.63	22.99	24.22
12H	4H	14.83	15.33	15.76	16.27	17.45	20.64	21.13	21.57	22.08	23.25
	6H	15.19	15.60	16.14	16.55	17.74	21.29	21.70	22.24	22.66	23.84
	8H	15.27	15.63	16.22	16.58	17.81	21.53	21.89	22.48	22.84	24.07