

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: P936358

Luminaire Tested: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936358
REPORT IS A COMBINATION OF REPORTS P933438 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

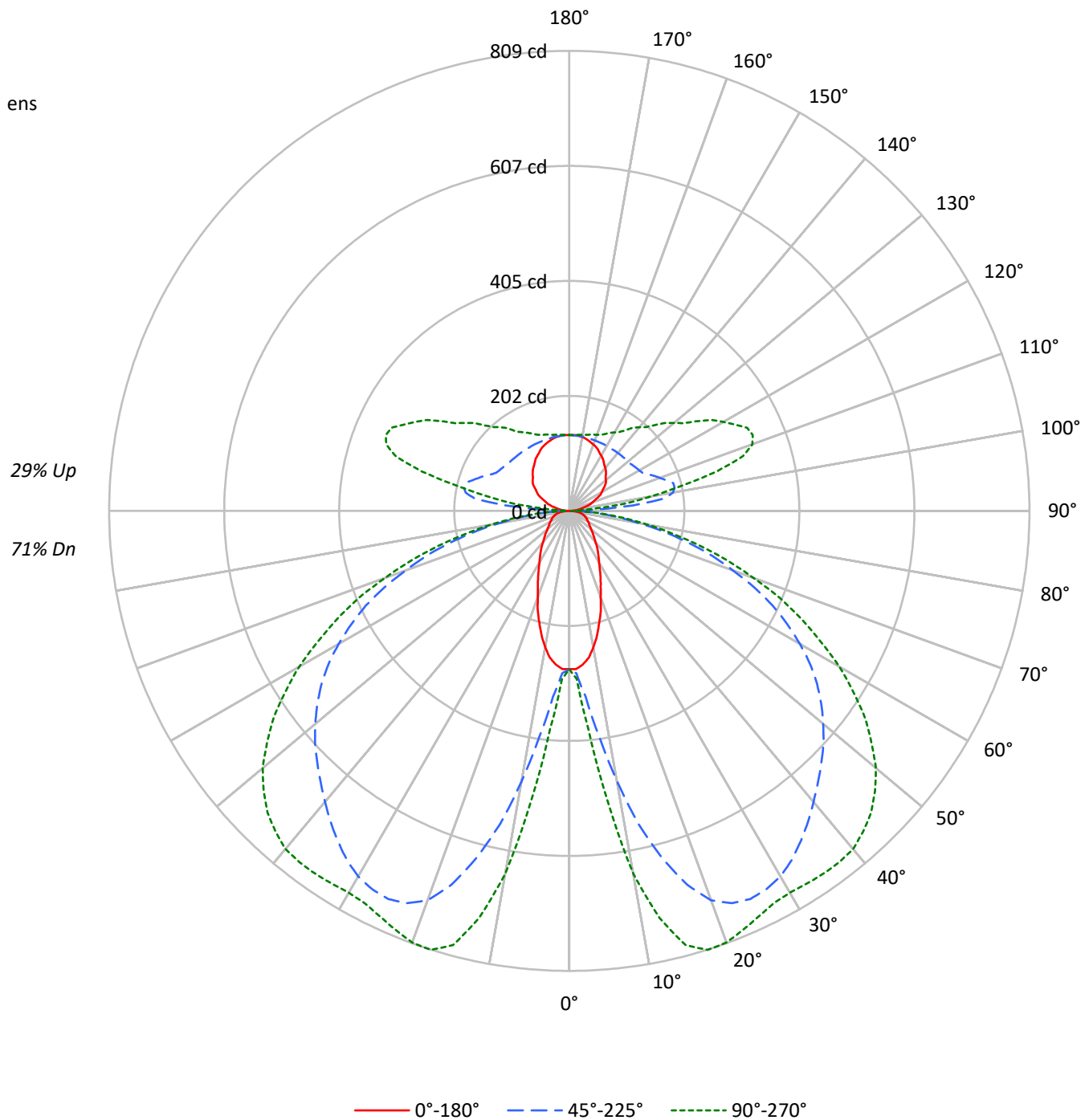
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3020.7 lumens
Efficiency: N/A
Efficacy: 100.7 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 30
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: P936358
CATALOG NUMBER: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-4-3500K

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	50	30	10
RCR																				
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	71	
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	62	58	
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	51	48	
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	43	39	
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	36	33	
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	31	28	
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	27	24	
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	23	21	
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	21	18	
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	18	16	
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	16	14	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2583	2583	2583
5°	2522	2984	3473
10°	2284	4347	5758
15°	1939	5675	6953
20°	1577	6571	7086
25°	1314	6872	6942
30°	1107	6909	6928
35°	976	6789	7107
40°	849	6635	7292
45°	768	6519	7321
50°	702	6414	7200
55°	672	6264	6881
60°	685	5980	6376
65°	709	5554	5684
70°	749	4834	4802
75°	823	3932	3747
80°	880	2716	2526
85°	745	1433	1293

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7321 cd/sqm



TEST NUMBER: P936358

CATALOG NUMBER: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-4-3500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	1.2
10°-20°	159.6	5.3
20°-30°	279.2	9.2
30°-40°	359.4	11.9
40°-50°	401.5	13.3
50°-60°	384.5	12.7
60°-70°	304.7	10.1
70°-80°	179.2	5.9
80°-90°	50.3	1.7
90°-100°	65.1	2.2
100°-110°	171.2	5.7
110°-120°	177.5	5.9
120°-130°	142.4	4.7
130°-140°	111.7	3.7
140°-150°	85.8	2.8
150°-160°	61.8	2.0
160°-170°	37.8	1.3
170°-180°	12.8	0.4
0°-30°	474.9	15.7
0°-40°	834.3	27.6
0°-60°	1620.3	53.6
0°-90°	2154.5	71.3
90°-120°	413.9	13.7
90°-150°	753.8	25.0
90°-180°	866.0	28.7
0°-180°	3020.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	278	278	278	278	278	
5°	271	291	328	371	384	25
15°	203	375	632	766	791	57
25°	130	425	753	786	787	60
35°	88	406	709	749	779	55
45°	60	324	627	718	750	46
55°	43	206	532	618	635	39
65°	34	109	395	444	450	34
75°	25	67	217	238	239	26
85°	9	21	54	59	60	10
90°	1	2	7	3	3	1
95°	9	34	112	58	39	10
105°	31	47	189	287	268	33
115°	55	66	152	302	345	54
125°	76	86	138	233	275	68
135°	91	100	134	188	213	70
145°	105	112	132	160	173	66
155°	119	122	132	145	149	55
165°	128	130	132	137	139	36
175°	134	134	133	134	134	13
180°	134	134	134	134	134	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	278.4	278.4	278.4	278.4	278.4	278.4	278.4	278.4	278.4	278.4	278.4
2.5°	278.4	278.4	280.2	281.1	282.9	283.8	285.6	287.4	292.8	293.7	295.5
5°	271.3	274.9	286.5	291.0	303.5	320.5	327.7	339.3	363.5	370.7	375.1
7.5°	260.5	268.6	297.2	304.4	335.7	380.5	399.3	424.4	462.9	481.7	496.9
10°	243.5	260.5	311.6	328.6	379.6	447.7	482.6	517.5	575.7	601.6	611.5
12.5°	224.7	252.5	326.8	350.1	423.5	522.9	564.9	603.4	669.7	704.6	710.0
15°	203.2	240.8	341.1	375.1	470.0	585.5	632.1	679.5	741.3	766.4	772.7
17.5°	184.4	231.9	354.5	390.4	505.9	641.9	689.4	728.8	778.9	795.9	800.4
20°	161.2	217.6	363.5	410.1	543.5	683.1	728.8	759.2	793.2	804.0	805.8
22.5°	144.1	202.3	368.9	417.2	568.5	708.2	746.7	770.9	794.1	797.7	798.6
25°	129.8	185.3	368.0	425.3	590.0	723.4	753.0	770.9	784.3	786.1	786.1
27.5°	116.4	166.5	364.4	427.1	606.1	727.0	750.3	762.8	769.1	772.7	772.7
30°	104.8	148.6	355.4	423.5	613.3	723.4	742.2	748.5	754.7	760.1	762.8
32.5°	95.8	131.6	342.0	416.3	614.2	714.5	727.9	731.5	740.4	753.0	757.4
35°	87.7	114.6	326.8	406.5	608.8	700.1	709.1	712.7	730.6	749.4	755.6
37.5°	79.7	102.1	307.1	389.5	600.8	683.1	689.4	695.7	723.4	745.8	753.0
40°	71.6	91.3	283.8	370.7	588.2	662.5	667.9	677.8	714.5	740.4	747.6
42.5°	65.4	82.4	258.7	351.0	572.1	639.3	647.3	661.6	703.7	731.5	739.5
45°	60.0	73.4	231.9	324.1	551.5	615.1	626.7	646.4	691.2	718.0	725.2
47.5°	54.6	67.1	204.1	296.3	529.1	590.9	606.1	628.5	674.2	700.1	706.4
50°	50.1	60.9	176.4	266.8	505.0	564.9	582.8	606.1	652.7	676.9	684.9
52.5°	46.6	55.5	150.4	237.3	477.2	538.1	558.7	582.8	626.7	650.0	655.4
55°	43.0	51.0	128.0	205.9	448.6	509.4	531.8	555.1	598.1	617.8	621.3
57.5°	41.2	47.5	109.2	176.4	418.1	477.2	502.3	523.8	564.0	579.3	582.8
60°	38.5	44.8	94.9	151.3	385.0	446.8	468.2	489.7	523.8	536.3	539.0
62.5°	35.8	43.0	84.2	127.1	351.0	410.9	432.4	452.1	480.8	489.7	493.3
65°	34.0	41.2	76.1	109.2	316.0	373.3	394.8	411.8	435.1	444.1	445.9
67.5°	32.2	39.4	69.8	94.0	281.1	335.7	351.9	368.0	385.9	394.8	395.7
70°	29.5	37.6	64.5	83.3	245.3	292.8	306.2	323.2	337.5	342.0	344.7
72.5°	27.8	34.9	60.9	75.2	208.6	251.6	264.1	274.0	286.5	291.0	291.0
75°	25.1	31.3	57.3	67.1	171.0	205.9	216.7	226.5	236.4	238.2	235.5
77.5°	22.4	27.8	49.2	56.4	133.4	162.9	171.9	177.3	185.3	187.1	188.0
80°	18.8	24.2	38.5	43.9	96.7	120.0	126.2	130.7	137.9	137.9	139.7
82.5°	14.3	18.8	27.8	31.3	65.4	82.4	87.7	90.4	94.9	94.9	94.9
85°	9.0	11.6	17.9	20.6	39.4	50.1	53.7	54.6	58.2	59.1	59.1
87.5°	4.5	6.3	11.6	12.5	20.6	26.0	26.0	27.8	27.8	26.9	26.0
90°	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6	3.4	3.4
92.5°	3.6	9.7	15.8	17.3	24.4	33.8	38.4	33.7	24.2	17.0	16.3
95°	8.6	19.8	31.0	33.8	59.9	94.7	112.2	100.1	75.9	57.8	55.8
97.5°	14.9	24.7	34.6	37.1	80.7	138.8	167.9	160.3	145.0	133.5	129.6
100°	19.7	28.6	37.6	39.8	88.2	152.7	185.0	185.5	186.7	187.5	182.8
102.5°	23.8	32.1	40.6	42.6	91.7	157.1	189.8	199.6	219.0	233.6	229.6
105°	30.9	38.0	44.9	46.7	94.3	157.6	189.3	211.1	254.7	287.4	285.2
107.5°	38.1	44.6	51.2	52.8	94.7	150.6	178.5	209.0	269.8	315.4	316.0
110°	42.9	48.8	54.7	56.2	94.0	144.4	169.6	203.6	271.5	322.6	324.8



TEST NUMBER: P936358

CATALOG NUMBER: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.6	53.3	58.9	60.3	94.0	139.0	161.4	196.3	265.8	318.0	321.4
115°	54.8	60.0	65.2	66.5	94.9	132.8	151.7	185.2	252.2	302.4	307.2
117.5°	61.9	66.6	71.4	72.5	96.7	128.8	145.0	175.2	235.6	281.0	286.3
120°	66.0	70.5	74.9	76.0	98.0	127.5	142.2	169.8	225.2	266.6	271.7
122.5°	70.0	74.5	79.0	80.1	100.1	126.8	140.1	165.0	214.8	252.1	257.1
125°	76.2	80.3	84.4	85.5	103.0	126.2	137.9	159.0	201.4	233.0	237.7
127.5°	81.2	85.4	89.5	90.6	105.7	125.9	136.0	154.2	190.5	217.7	221.7
130°	83.9	88.4	92.8	94.0	107.8	126.1	135.3	151.5	183.8	208.1	211.7
132.5°	86.8	91.2	95.7	96.8	109.4	126.2	134.7	149.2	178.1	199.8	203.1
135°	90.9	94.9	99.0	100.0	111.2	126.1	133.6	145.7	169.9	188.1	190.9
137.5°	95.1	99.1	103.1	104.1	113.9	126.9	133.4	143.6	164.1	179.5	181.8
140°	98.6	102.2	106.0	106.9	115.5	127.0	132.8	141.6	159.4	172.6	174.8
142.5°	101.3	104.7	108.1	109.0	116.9	127.5	132.8	140.6	156.1	167.8	169.7
145°	105.4	108.3	111.4	112.1	118.7	127.5	131.9	138.2	150.9	160.5	162.0
147.5°	109.5	112.4	115.3	116.0	121.3	128.4	131.9	136.9	146.9	154.4	155.6
150°	112.2	114.8	117.5	118.1	122.7	128.8	131.9	136.1	144.6	150.9	151.8
152.5°	115.0	116.9	118.9	119.4	123.6	129.1	131.9	135.5	142.7	148.2	148.9
155°	119.1	120.5	122.0	122.4	125.5	129.7	131.9	134.7	140.6	144.9	145.3
157.5°	122.1	123.6	125.0	125.3	127.5	130.4	131.9	134.1	138.6	141.9	142.3
160°	124.2	125.3	126.4	126.7	128.4	130.7	131.9	133.8	137.6	140.5	140.7
162.5°	126.2	127.0	127.9	128.1	129.4	131.1	131.9	133.5	136.7	139.1	139.3
165°	128.5	129.2	130.0	130.2	130.7	131.5	131.9	133.0	135.4	137.1	137.3
167.5°	130.5	130.9	131.3	131.3	131.8	132.4	132.8	133.5	135.0	136.2	136.3
170°	131.9	132.2	132.6	132.7	132.7	132.8	132.8	133.5	135.0	136.2	136.2
172.5°	132.6	132.7	132.8	132.8	132.8	132.8	132.8	133.4	134.6	135.5	135.4
175°	133.6	133.6	133.6	133.6	133.3	133.0	132.8	133.1	133.9	134.5	134.5
177.5°	133.6	133.6	133.6	133.6	133.4	133.1	133.0	133.2	133.8	134.3	134.2
180°	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6	133.6



TEST NUMBER: P936358

CATALOG NUMBER: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	278.4	278.4
2.5°	297.2	295.5
5°	382.3	384.1
7.5°	514.8	513.9
10°	640.1	648.2
12.5°	731.5	733.3
15°	787.0	790.6
17.5°	808.5	809.4
20°	809.4	807.6
22.5°	799.5	797.7
25°	787.9	787.0
27.5°	777.1	778.0
30°	772.7	775.3
32.5°	772.7	777.1
35°	774.4	778.9
37.5°	773.5	778.9
40°	770.0	776.2
42.5°	760.1	764.6
45°	744.9	750.3
47.5°	725.2	728.8
50°	700.1	703.7
52.5°	668.8	669.7
55°	631.2	634.8
57.5°	590.9	591.8
60°	546.1	548.8
62.5°	498.7	498.7
65°	448.6	450.3
67.5°	396.6	401.1
70°	343.8	344.7
72.5°	291.9	291.9
75°	238.2	239.0
77.5°	187.1	187.1
80°	138.8	139.7
82.5°	95.8	97.6
85°	60.0	60.0
87.5°	27.8	25.1
90°	3.4	3.4
92.5°	13.6	10.9
95°	47.6	39.4
97.5°	114.0	98.4
100°	164.3	145.7
102.5°	213.6	197.7
105°	276.7	268.1
107.5°	318.0	320.1
110°	333.7	342.6



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CATALOG NUMBER: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-4-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	335.1	348.8
115°	326.3	345.2
117.5°	307.4	328.5
120°	292.2	312.6
122.5°	277.4	297.6
125°	256.3	275.0
127.5°	237.3	253.0
130°	226.2	240.7
132.5°	216.0	229.0
135°	202.2	213.4
137.5°	191.0	200.2
140°	183.3	191.9
142.5°	177.0	184.3
145°	167.5	173.1
147.5°	160.2	164.8
150°	155.6	159.4
152.5°	151.7	154.5
155°	147.2	149.1
157.5°	143.6	145.0
160°	141.5	142.2
162.5°	140.0	140.7
165°	138.1	138.8
167.5°	136.5	136.9
170°	136.2	136.2
172.5°	135.1	134.8
175°	134.5	134.5
177.5°	133.9	133.6
180°	133.6	133.6



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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	6.03	7.18	6.77	7.95	8.88	19.17	20.32	19.91	21.09	22.02
	3H	6.76	7.80	7.51	8.58	9.53	21.01	22.05	21.77	22.83	23.79
	4H	7.07	8.05	7.84	8.84	9.81	21.66	22.65	22.43	23.43	24.40
	6H	7.33	8.25	8.12	9.04	10.02	22.10	23.01	22.88	23.80	24.79
	8H	7.41	8.28	8.21	9.10	10.08	22.22	23.09	23.01	23.90	24.89
	12H	7.44	8.27	8.24	9.08	10.09	22.29	23.12	23.09	23.93	24.94
4H	2H	13.25	14.24	14.03	15.03	15.99	19.48	20.46	20.25	21.25	22.22
	3H	14.85	15.68	15.64	16.50	17.49	21.54	22.36	22.32	23.18	24.17
	4H	14.96	15.71	15.76	16.53	17.55	22.30	23.06	23.11	23.88	24.89
	6H	14.99	15.64	15.81	16.49	17.51	22.85	23.50	23.67	24.35	25.37
	8H	14.97	15.58	15.80	16.43	17.46	23.01	23.62	23.84	24.47	25.50
	12H	14.94	15.50	15.79	16.36	17.40	23.11	23.67	23.96	24.53	25.57
8H	4H	16.42	17.03	17.24	17.87	18.90	22.39	23.00	23.22	23.85	24.88
	6H	16.67	17.18	17.53	18.07	19.10	23.02	23.53	23.88	24.41	25.45
	8H	16.70	17.15	17.56	18.03	19.08	23.24	23.69	24.10	24.57	25.62
	12H	16.68	17.08	17.55	17.95	19.05	23.39	23.79	24.26	24.66	25.76
12H	4H	16.57	17.13	17.42	17.99	19.03	22.36	22.91	23.20	23.77	24.81
	6H	16.93	17.39	17.80	18.27	19.31	23.01	23.46	23.87	24.34	25.39
	8H	17.02	17.42	17.89	18.29	19.39	23.25	23.65	24.11	24.52	25.62