

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: P936240

Luminaire Tested: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-6-4000K

Issue Date: 12/17/2024

**Test Information**

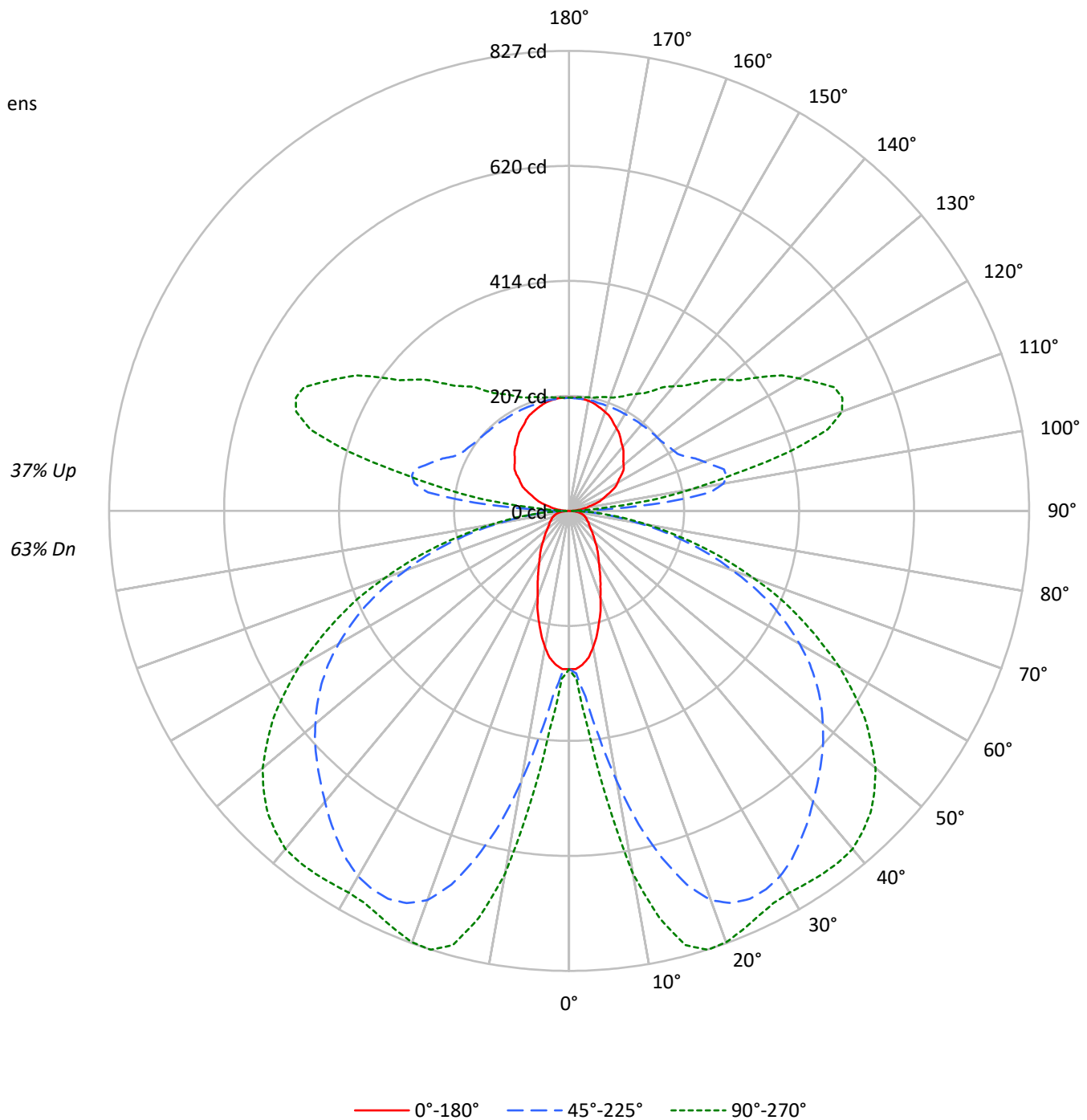
Test Method: LM-79-2019  
Report Number: P936240  
REPORT IS A COMBINATION OF REPORTS P933445 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-6-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3522.1 lumens  
Efficiency: N/A  
Efficacy: 106.7 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<sub>in</sub>): 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

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### Luminous Intensity Polar Plot





TEST NUMBER: P936240

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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°	1760	1760	1760
5°	1719	2034	2366
10°	1559	2964	3922
15°	1324	3871	4736
20°	1078	4486	4827
25°	899	4693	4729
30°	758	4721	4720
35°	670	4641	4842
40°	583	4539	4969
45°	527	4463	4988
50°	483	4394	4906
55°	462	4294	4689
60°	474	4104	4345
65°	490	3815	3873
70°	522	3325	3272
75°	578	2708	2553
80°	625	1876	1720
85°	549	994	881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4988 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.8	1.0
10°-20°	163.1	4.6
20°-30°	285.4	8.1
30°-40°	367.3	10.4
40°-50°	410.3	11.6
50°-60°	393.0	11.2
60°-70°	311.4	8.8
70°-80°	183.1	5.2
80°-90°	51.7	1.5
90°-100°	99.2	2.8
100°-110°	260.9	7.4
110°-120°	270.6	7.7
120°-130°	217.0	6.2
130°-140°	170.3	4.8
140°-150°	130.7	3.7
150°-160°	94.1	2.7
160°-170°	57.6	1.6
170°-180°	19.5	0.6
0°-30°	485.3	13.8
0°-40°	852.6	24.2
0°-60°	1655.9	47.0
0°-90°	2202.1	62.5
90°-120°	630.8	17.9
90°-150°	1148.8	32.6
90°-180°	1320.0	37.5
0°-180°	3522.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	284	284	284	284	284	
5°	277	297	335	379	392	26
15°	208	383	646	783	808	58
25°	133	435	770	803	804	61
35°	90	415	725	766	796	56
45°	61	331	640	734	767	47
55°	44	210	544	631	649	40
65°	35	112	404	454	460	34
75°	26	69	221	243	244	27
85°	9	21	55	60	61	10
90°	1	4	10	5	5	2
95°	13	51	171	88	60	15
105°	47	71	288	438	409	50
115°	84	101	231	461	526	82
125°	116	130	210	355	419	103
135°	138	152	204	287	325	107
145°	161	171	201	245	264	101
155°	182	187	201	221	227	83
165°	196	198	201	209	212	55
175°	204	204	202	205	205	19
180°	204	204	204	204	204	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	284.5	284.5	284.5	284.5	284.5	284.5	284.5	284.5	284.5	284.5	284.5
2.5°	284.5	284.5	286.4	287.3	289.2	290.1	291.9	293.7	299.2	300.1	301.9
5°	277.3	280.9	292.8	297.4	310.2	327.6	334.8	346.8	371.5	378.8	383.4
7.5°	266.3	274.5	303.7	311.1	343.1	388.9	408.1	433.7	473.0	492.3	507.9
10°	248.9	266.3	318.4	335.8	388.0	457.5	493.2	528.9	588.4	614.8	624.9
12.5°	229.7	258.1	333.9	357.8	432.8	534.3	577.3	616.7	684.4	720.1	725.5
15°	207.7	246.1	348.6	383.4	480.4	598.4	645.9	694.5	757.6	783.2	789.7
17.5°	188.5	237.0	362.3	399.0	516.9	656.0	704.5	744.8	796.0	813.4	817.9
20°	164.7	222.3	371.5	419.1	555.4	698.1	744.8	775.9	810.7	821.7	823.5
22.5°	147.3	206.8	377.0	426.3	581.0	723.7	763.1	787.7	811.6	815.2	816.1
25°	132.7	189.4	376.0	434.6	603.0	739.3	769.5	787.7	801.5	803.3	803.3
27.5°	119.0	170.2	372.4	436.4	619.5	743.0	766.7	779.6	785.9	789.7	789.7
30°	107.1	151.9	363.2	432.8	626.7	739.3	758.5	764.9	771.3	776.8	779.6
32.5°	97.9	134.5	349.5	425.4	627.6	730.2	743.9	747.5	756.6	769.5	774.1
35°	89.7	117.2	333.9	415.4	622.2	715.5	724.6	728.3	746.6	765.8	772.2
37.5°	81.4	104.3	313.8	398.1	613.9	698.1	704.5	711.0	739.3	762.2	769.5
40°	73.2	93.3	290.1	378.8	601.2	677.0	682.6	692.6	730.2	756.6	764.0
42.5°	66.8	84.1	264.4	358.7	584.6	653.3	661.5	676.1	719.2	747.5	755.7
45°	61.3	75.0	237.0	331.2	563.6	628.6	640.5	660.6	706.3	733.8	741.1
47.5°	55.9	68.6	208.6	302.8	540.8	603.9	619.5	642.3	689.0	715.5	721.9
50°	51.2	62.2	180.3	272.6	516.0	577.3	595.6	619.5	667.0	691.7	700.0
52.5°	47.6	56.8	153.7	242.5	487.7	549.9	571.0	595.6	640.5	664.3	669.8
55°	43.9	52.1	130.8	210.4	458.4	520.6	543.5	567.2	611.2	631.3	635.0
57.5°	42.1	48.5	111.6	180.3	427.3	487.7	513.3	535.2	576.4	592.0	595.6
60°	39.4	45.8	97.0	154.6	393.4	456.5	478.6	500.5	535.2	548.1	550.8
62.5°	36.6	43.9	86.1	129.9	358.7	420.0	441.9	462.1	491.3	500.5	504.1
65°	34.7	42.1	77.8	111.6	323.0	381.5	403.5	420.9	444.6	453.8	455.6
67.5°	32.9	40.3	71.4	96.1	287.3	343.1	359.6	376.0	394.3	403.5	404.4
70°	30.2	38.4	65.9	85.1	250.7	299.2	312.9	330.3	344.9	349.5	352.3
72.5°	28.4	35.7	62.2	76.9	213.2	257.1	269.9	280.0	292.8	297.4	297.4
75°	25.7	32.0	58.6	68.6	174.7	210.4	221.4	231.5	241.5	243.4	240.6
77.5°	22.8	28.4	50.3	57.7	136.4	166.6	175.7	181.2	189.4	191.2	192.1
80°	19.2	24.7	39.4	44.8	98.8	122.6	129.0	133.6	140.9	140.9	142.7
82.5°	14.6	19.2	28.4	32.0	66.8	84.1	89.7	92.4	97.0	97.0	97.0
85°	9.2	11.9	18.3	21.0	40.3	51.2	54.9	55.9	59.5	60.4	60.4
87.5°	4.5	6.4	11.9	12.8	21.0	26.6	26.6	28.4	28.4	27.5	26.6
90°	1.4	2.5	3.5	3.8	6.0	8.9	10.4	9.2	6.9	5.2	5.2
92.5°	5.5	14.7	24.0	26.4	37.1	51.4	58.5	51.2	36.7	25.9	24.9
95°	13.1	30.1	47.1	51.4	91.2	144.4	170.9	152.5	115.7	88.1	85.1
97.5°	22.6	37.7	52.7	56.4	122.9	211.5	255.8	244.1	221.0	203.5	197.6
100°	30.1	43.7	57.3	60.7	134.4	232.8	281.9	282.7	284.4	285.7	278.6
102.5°	36.4	49.1	61.8	64.9	139.7	239.4	289.3	304.1	333.7	356.0	349.9
105°	47.0	57.8	68.5	71.2	143.6	240.1	288.4	321.6	388.1	438.0	434.7
107.5°	57.9	67.9	78.0	80.5	144.4	229.5	272.1	318.5	411.2	480.7	481.5
110°	65.3	74.4	83.4	85.7	143.3	220.0	258.4	310.3	413.9	491.6	494.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	72.6	81.2	89.8	92.0	143.3	211.8	246.0	299.0	405.1	484.6	489.7
115°	83.5	91.5	99.4	101.4	144.6	202.2	231.0	282.2	384.3	460.9	468.2
117.5°	94.3	101.5	108.7	110.5	147.3	196.3	220.9	267.0	359.1	428.3	436.3
120°	100.6	107.4	114.2	115.9	149.5	194.4	216.8	258.9	343.1	406.3	414.2
122.5°	106.7	113.6	120.4	122.2	152.6	193.3	213.6	251.5	327.4	384.3	392.1
125°	116.2	122.4	128.7	130.3	156.9	192.5	210.2	242.4	306.9	355.2	362.3
127.5°	123.8	130.1	136.4	138.0	161.1	191.9	207.3	235.0	290.4	331.8	337.8
130°	127.9	134.7	141.4	143.2	164.2	192.2	206.2	230.9	280.1	317.0	322.6
132.5°	132.2	139.0	145.7	147.5	166.7	192.5	205.3	227.3	271.4	304.5	309.4
135°	138.4	144.6	150.8	152.4	169.5	192.3	203.7	222.1	259.1	286.7	291.0
137.5°	144.9	151.0	157.1	158.6	173.6	193.5	203.4	219.0	250.2	273.6	277.1
140°	150.2	155.8	161.5	162.9	176.1	193.7	202.4	215.9	242.9	263.1	266.3
142.5°	154.3	159.5	164.7	166.0	178.1	194.3	202.4	214.2	238.0	255.7	258.5
145°	160.6	165.1	169.6	170.8	180.9	194.3	201.0	210.7	230.0	244.6	246.7
147.5°	166.8	171.3	175.7	176.8	184.9	195.7	201.0	208.7	223.9	235.3	237.1
150°	170.9	174.9	179.0	180.0	187.0	196.4	201.0	207.5	220.3	230.0	231.4
152.5°	175.2	178.2	181.3	182.0	188.4	196.8	201.0	206.5	217.5	225.8	226.9
155°	181.5	183.7	186.0	186.6	191.4	197.8	201.0	205.4	214.1	220.7	221.4
157.5°	186.1	188.3	190.5	191.0	194.4	198.8	201.0	204.4	211.2	216.3	216.9
160°	189.3	191.0	192.7	193.1	195.8	199.3	201.0	203.9	209.8	214.1	214.4
162.5°	192.4	193.7	194.9	195.3	197.2	199.8	201.0	203.5	208.4	212.1	212.4
165°	195.8	196.9	198.1	198.4	199.3	200.5	201.0	202.8	206.3	208.9	209.2
167.5°	198.9	199.5	200.0	200.2	200.9	201.9	202.4	203.6	205.9	207.6	207.7
170°	201.0	201.6	202.1	202.2	202.3	202.4	202.4	203.6	205.9	207.6	207.6
172.5°	202.1	202.2	202.4	202.4	202.4	202.4	202.4	203.3	205.1	206.5	206.4
175°	203.7	203.7	203.7	203.7	203.2	202.7	202.4	202.9	204.1	205.0	205.0
177.5°	203.7	203.7	203.7	203.7	203.3	202.8	202.7	203.1	204.0	204.8	204.7
180°	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7	203.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	284.5	284.5
2.5°	303.7	301.9
5°	390.7	392.5
7.5°	526.1	525.2
10°	654.2	662.4
12.5°	747.5	749.4
15°	804.3	807.9
17.5°	826.2	827.1
20°	827.1	825.3
22.5°	817.0	815.2
25°	805.2	804.3
27.5°	794.2	795.1
30°	789.7	792.4
32.5°	789.7	794.2
35°	791.5	796.0
37.5°	790.6	796.0
40°	786.8	793.3
42.5°	776.8	781.4
45°	761.3	766.7
47.5°	741.1	744.8
50°	715.5	719.2
52.5°	683.5	684.4
55°	645.0	648.8
57.5°	603.9	604.8
60°	558.2	560.9
62.5°	509.7	509.7
65°	458.4	460.2
67.5°	405.3	409.9
70°	351.4	352.3
72.5°	298.3	298.3
75°	243.4	244.3
77.5°	191.2	191.2
80°	141.8	142.7
82.5°	97.9	99.7
85°	61.3	61.3
87.5°	28.4	25.7
90°	5.2	5.2
92.5°	20.7	16.6
95°	72.5	60.0
97.5°	173.7	149.9
100°	250.3	222.0
102.5°	325.7	301.4
105°	421.7	408.6
107.5°	484.6	487.7
110°	508.6	522.2





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	510.7	531.6
115°	497.1	526.1
117.5°	468.5	500.6
120°	445.4	476.6
122.5°	422.8	453.5
125°	390.6	419.0
127.5°	361.8	385.7
130°	344.7	366.8
132.5°	329.2	349.0
135°	308.0	325.1
137.5°	291.1	305.0
140°	279.3	292.4
142.5°	269.7	281.0
145°	255.2	263.8
147.5°	244.1	251.2
150°	237.1	242.9
152.5°	231.1	235.5
155°	224.2	227.1
157.5°	218.9	220.9
160°	215.6	216.8
162.5°	213.5	214.6
165°	210.4	211.6
167.5°	208.2	208.7
170°	207.6	207.6
172.5°	205.9	205.6
175°	205.0	205.0
177.5°	204.1	203.7
180°	203.7	203.7



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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	4.03	5.07	4.86	5.93	7.01	17.20	18.23	18.03	19.09	20.17
	3H	4.75	5.68	5.59	6.55	7.66	19.04	19.98	19.89	20.85	21.95
	4H	5.06	5.94	5.92	6.82	7.93	19.69	20.58	20.55	21.46	22.57
	6H	5.31	6.13	6.19	7.02	8.15	20.13	20.95	21.00	21.83	22.96
	8H	5.39	6.17	6.27	7.07	8.20	20.25	21.03	21.13	21.93	23.06
	12H	5.41	6.15	6.30	7.05	8.21	20.32	21.07	21.21	21.96	23.12
4H	2H	11.26	12.14	12.12	13.02	14.13	17.49	18.38	18.36	19.25	20.37
	3H	12.84	13.58	13.72	14.49	15.62	19.55	20.29	20.43	21.20	22.33
	4H	12.95	13.62	13.84	14.53	15.68	20.32	21.00	21.21	21.90	23.06
	6H	12.97	13.55	13.87	14.48	15.64	20.86	21.45	21.77	22.38	23.54
	8H	12.95	13.50	13.86	14.42	15.59	21.03	21.58	21.94	22.50	23.67
	12H	12.91	13.41	13.84	14.35	15.53	21.13	21.62	22.06	22.57	23.74
8H	4H	14.40	14.95	15.31	15.88	17.05	20.40	20.94	21.30	21.87	23.04
	6H	14.65	15.11	15.59	16.07	17.25	21.03	21.48	21.96	22.45	23.62
	8H	14.67	15.08	15.62	16.03	17.22	21.25	21.65	22.19	22.61	23.80
	12H	14.65	15.01	15.60	15.96	17.19	21.40	21.75	22.35	22.70	23.94
12H	4H	14.55	15.05	15.48	15.99	17.17	20.36	20.85	21.29	21.80	22.97
	6H	14.91	15.32	15.86	16.27	17.46	21.01	21.42	21.96	22.38	23.56
	8H	14.99	15.35	15.94	16.30	17.53	21.25	21.61	22.20	22.56	23.79