

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: P936333

Luminaire Tested: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

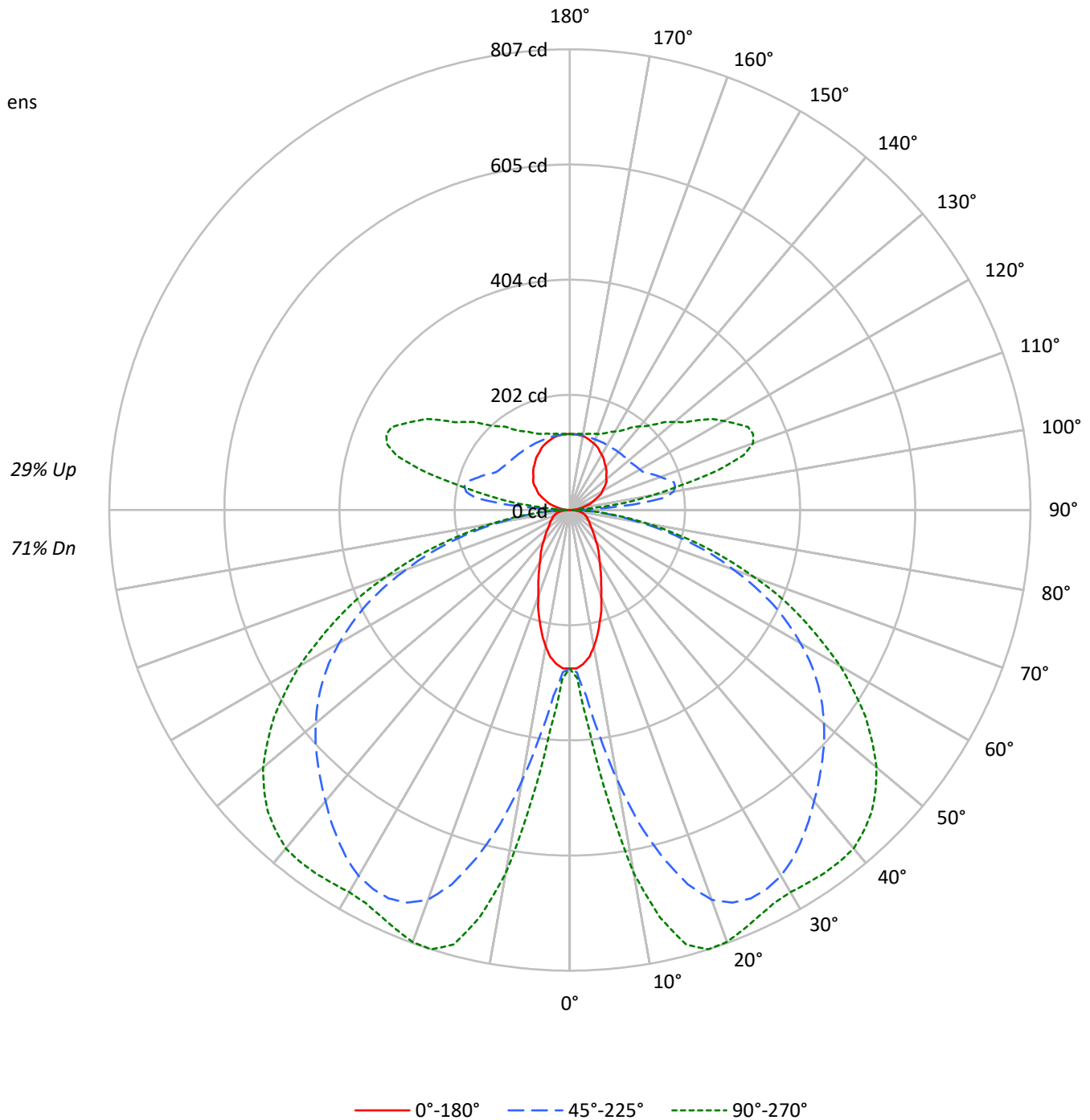
Test Method: LM-79-2019  
Report Number: P936333  
REPORT IS A COMBINATION OF REPORTS P933438 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3011.6 lumens  
Efficiency: N/A  
Efficacy: 100.4 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<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





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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2576	2576	2576
5°	2514	2975	3462
10°	2278	4333	5741
15°	1933	5658	6931
20°	1573	6551	7064
25°	1310	6851	6920
30°	1103	6889	6907
35°	974	6769	7086
40°	847	6615	7271
45°	766	6499	7299
50°	701	6396	7178
55°	669	6245	6860
60°	683	5962	6358
65°	706	5537	5667
70°	749	4820	4788
75°	820	3919	3736
80°	875	2709	2517
85°	737	1431	1288

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7299 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.9	1.2
10°-20°	159.2	5.3
20°-30°	278.4	9.2
30°-40°	358.4	11.9
40°-50°	400.3	13.3
50°-60°	383.4	12.7
60°-70°	303.8	10.1
70°-80°	178.7	5.9
80°-90°	50.1	1.7
90°-100°	64.9	2.2
100°-110°	170.7	5.7
110°-120°	177.0	5.9
120°-130°	142.0	4.7
130°-140°	111.4	3.7
140°-150°	85.5	2.8
150°-160°	61.6	2.0
160°-170°	37.7	1.3
170°-180°	12.7	0.4
0°-30°	473.4	15.7
0°-40°	831.8	27.6
0°-60°	1615.4	53.6
0°-90°	2148.0	71.3
90°-120°	412.7	13.7
90°-150°	751.6	25.0
90°-180°	864.0	28.7
0°-180°	3011.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	278	278	278	278	278	
5°	270	290	327	370	383	25
15°	203	374	630	764	788	56
25°	129	424	751	784	785	60
35°	88	405	707	747	777	55
45°	60	323	625	716	748	46
55°	43	205	530	616	633	39
65°	34	109	394	443	449	34
75°	25	67	216	237	238	26
85°	9	20	54	59	60	9
90°	1	2	7	3	3	1
95°	9	34	112	58	39	10
105°	31	47	189	286	267	33
115°	55	66	151	302	344	54
125°	76	85	138	232	274	67
135°	91	100	133	188	213	70
145°	105	112	132	160	172	66
155°	119	122	132	144	149	55
165°	128	130	132	137	138	36
175°	133	133	132	134	134	13
180°	133	133	133	133	133	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	277.6	277.6	277.6	277.6	277.6	277.6	277.6	277.6	277.6	277.6	277.6
2.5°	277.6	277.6	279.4	280.3	282.1	283.0	284.7	286.5	291.9	292.8	294.6
5°	270.5	274.0	285.6	290.1	302.6	319.6	326.7	338.3	362.4	369.5	374.0
7.5°	259.8	267.8	296.3	303.5	334.7	379.4	398.1	423.1	461.5	480.2	495.4
10°	242.8	259.8	310.6	327.6	378.5	446.3	481.1	515.9	574.0	599.8	609.7
12.5°	224.0	251.7	325.8	349.0	422.2	521.3	563.2	601.6	667.7	702.5	707.8
15°	202.6	240.1	340.1	374.0	468.6	583.8	630.2	677.5	739.1	764.1	770.3
17.5°	183.9	231.2	353.5	389.2	504.3	640.0	687.3	726.6	776.6	793.5	798.0
20°	160.7	216.9	362.4	408.8	541.8	681.1	726.6	756.9	790.9	801.6	803.4
22.5°	143.7	201.7	367.8	416.0	566.8	706.1	744.4	768.5	791.8	795.3	796.2
25°	129.4	184.8	366.9	424.0	588.2	721.2	750.7	768.5	781.9	783.7	783.7
27.5°	116.0	166.0	363.3	425.8	604.3	724.8	748.0	760.5	766.8	770.3	770.3
30°	104.4	148.2	354.4	422.2	611.4	721.2	740.0	746.2	752.5	757.8	760.5
32.5°	95.5	131.2	341.0	415.1	612.3	712.3	725.7	729.3	738.2	750.7	755.2
35°	87.5	114.3	325.8	405.2	607.0	698.0	707.0	710.5	728.4	747.1	753.4
37.5°	79.4	101.8	306.2	388.3	598.9	681.1	687.3	693.6	721.2	743.6	750.7
40°	71.4	91.0	283.0	369.5	586.5	660.5	665.9	675.7	712.3	738.2	745.3
42.5°	65.2	82.1	258.0	349.9	570.4	637.3	645.4	659.6	701.6	729.3	737.3
45°	59.8	73.2	231.2	323.1	549.9	613.2	624.8	644.5	689.1	715.9	723.0
47.5°	54.4	66.9	203.5	295.5	527.5	589.1	604.3	626.6	672.1	698.0	704.3
50°	50.0	60.7	175.8	266.0	503.4	563.2	581.1	604.3	650.7	674.8	682.9
52.5°	46.4	55.3	150.0	236.5	475.8	536.5	557.0	581.1	624.8	648.0	653.4
55°	42.8	50.9	127.6	205.3	447.2	507.9	530.2	553.4	596.3	615.9	619.5
57.5°	41.1	47.3	108.9	175.8	416.9	475.8	500.8	522.2	562.4	577.5	581.1
60°	38.4	44.6	94.6	150.9	383.8	445.4	466.8	488.3	522.2	534.7	537.4
62.5°	35.7	42.8	83.9	126.8	349.9	409.7	431.1	450.8	479.3	488.3	491.8
65°	33.9	41.1	75.9	108.9	315.1	372.2	393.6	410.6	433.8	442.7	444.5
67.5°	32.1	39.3	69.6	93.7	280.3	334.7	350.8	366.9	384.7	393.6	394.5
70°	29.5	37.5	64.3	83.0	244.6	291.9	305.3	322.2	336.5	341.0	343.7
72.5°	27.7	34.8	60.7	75.0	208.0	250.8	263.3	273.1	285.6	290.1	290.1
75°	25.0	31.2	57.1	66.9	170.5	205.3	216.0	225.8	235.7	237.4	234.8
77.5°	22.3	27.7	49.1	56.2	133.0	162.5	171.4	176.7	184.8	186.6	187.5
80°	18.7	24.1	38.4	43.7	96.4	119.6	125.9	130.3	137.5	137.5	139.2
82.5°	14.3	18.7	27.7	31.2	65.2	82.1	87.5	90.2	94.6	94.6	94.6
85°	8.9	11.6	17.9	20.5	39.3	50.0	53.6	54.4	58.0	58.9	58.9
87.5°	4.5	6.2	11.6	12.5	20.5	25.9	25.9	27.7	27.7	26.8	25.9
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	9.6	15.7	17.2	24.3	33.7	38.3	33.6	24.1	17.0	16.2
95°	8.6	19.7	30.9	33.7	59.7	94.4	111.8	99.8	75.7	57.7	55.6
97.5°	14.8	24.6	34.5	37.0	80.4	138.4	167.4	159.8	144.5	133.1	129.2
100°	19.6	28.6	37.5	39.7	87.9	152.3	184.4	185.0	186.1	186.9	182.3
102.5°	23.7	32.0	40.4	42.5	91.4	156.7	189.2	199.0	218.3	232.9	228.9
105°	30.8	37.8	44.8	46.6	94.0	157.1	188.7	210.5	254.0	286.5	284.4
107.5°	37.9	44.5	51.1	52.7	94.4	150.1	178.0	208.3	268.9	314.5	315.0
110°	42.8	48.6	54.5	56.1	93.7	144.0	169.1	203.0	270.7	321.6	323.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.5	53.1	58.7	60.2	93.7	138.5	160.9	195.7	265.0	317.1	320.5
115°	54.6	59.8	65.0	66.3	94.6	132.4	151.2	184.6	251.5	301.5	306.3
117.5°	61.7	66.4	71.1	72.3	96.4	128.4	144.5	174.7	234.9	280.2	285.5
120°	65.8	70.2	74.7	75.8	97.7	127.1	141.7	169.3	224.5	265.8	270.9
122.5°	69.8	74.3	78.7	79.9	99.8	126.4	139.7	164.5	214.1	251.4	256.4
125°	76.0	80.1	84.2	85.2	102.7	125.9	137.5	158.5	200.8	232.3	237.0
127.5°	81.0	85.2	89.3	90.3	105.4	125.5	135.6	153.7	189.9	217.1	221.0
130°	83.6	88.1	92.6	93.7	107.5	125.8	134.9	151.0	183.3	207.4	211.0
132.5°	86.5	91.0	95.4	96.5	109.1	125.9	134.3	148.7	177.5	199.2	202.4
135°	90.6	94.6	98.7	99.7	110.9	125.8	133.2	145.2	169.4	187.5	190.3
137.5°	94.8	98.8	102.8	103.8	113.5	126.5	133.0	143.2	163.6	179.0	181.3
140°	98.3	101.9	105.7	106.6	115.1	126.7	132.4	141.2	158.9	172.1	174.2
142.5°	101.0	104.3	107.7	108.6	116.6	127.1	132.4	140.1	155.7	167.3	169.2
145°	105.1	108.0	111.0	111.8	118.4	127.1	131.5	137.8	150.5	160.0	161.5
147.5°	109.2	112.0	115.0	115.7	121.0	128.0	131.5	136.5	146.5	154.0	155.1
150°	111.8	114.4	117.1	117.7	122.3	128.4	131.5	135.7	144.2	150.5	151.4
152.5°	114.6	116.6	118.5	119.1	123.2	128.7	131.5	135.1	142.3	147.7	148.4
155°	118.7	120.1	121.7	122.0	125.1	129.3	131.5	134.3	140.1	144.4	144.9
157.5°	121.8	123.2	124.6	125.0	127.1	130.1	131.5	133.7	138.2	141.5	141.8
160°	123.8	124.9	126.0	126.3	128.0	130.3	131.5	133.4	137.2	140.1	140.2
162.5°	125.9	126.7	127.6	127.7	129.0	130.7	131.5	133.1	136.3	138.7	138.9
165°	128.1	128.8	129.6	129.8	130.3	131.1	131.5	132.6	135.0	136.7	136.8
167.5°	130.1	130.5	130.9	130.9	131.4	132.0	132.4	133.1	134.6	135.8	135.9
170°	131.5	131.8	132.2	132.3	132.3	132.4	132.4	133.1	134.6	135.8	135.8
172.5°	132.2	132.3	132.4	132.4	132.4	132.4	132.4	133.0	134.2	135.1	135.0
175°	133.2	133.2	133.2	133.2	132.9	132.6	132.4	132.7	133.5	134.1	134.1
177.5°	133.2	133.2	133.2	133.2	133.0	132.7	132.6	132.8	133.4	133.9	133.8
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	277.6	277.6
2.5°	296.3	294.6
5°	381.1	382.9
7.5°	513.3	512.4
10°	638.2	646.3
12.5°	729.3	731.1
15°	784.6	788.2
17.5°	806.0	806.9
20°	806.9	805.1
22.5°	797.1	795.3
25°	785.5	784.6
27.5°	774.8	775.7
30°	770.3	773.0
32.5°	770.3	774.8
35°	772.1	776.6
37.5°	771.2	776.6
40°	767.7	773.9
42.5°	757.8	762.3
45°	742.7	748.0
47.5°	723.0	726.6
50°	698.0	701.6
52.5°	666.8	667.7
55°	629.3	632.9
57.5°	589.1	590.0
60°	544.5	547.2
62.5°	497.2	497.2
65°	447.2	449.0
67.5°	395.4	399.9
70°	342.8	343.7
72.5°	291.0	291.0
75°	237.4	238.3
77.5°	186.6	186.6
80°	138.4	139.2
82.5°	95.5	97.3
85°	59.8	59.8
87.5°	27.7	25.0
90°	3.4	3.4
92.5°	13.6	10.9
95°	47.5	39.3
97.5°	113.6	98.1
100°	163.8	145.2
102.5°	213.0	197.1
105°	275.9	267.3
107.5°	317.1	319.1
110°	332.7	341.6





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	334.1	347.8
115°	325.3	344.2
117.5°	306.4	327.5
120°	291.4	311.7
122.5°	276.5	296.7
125°	255.6	274.1
127.5°	236.6	252.3
130°	225.5	239.9
132.5°	215.4	228.3
135°	201.6	212.7
137.5°	190.4	199.6
140°	182.7	191.3
142.5°	176.5	183.8
145°	167.0	172.5
147.5°	159.7	164.3
150°	155.1	158.9
152.5°	151.2	154.1
155°	146.7	148.6
157.5°	143.2	144.5
160°	141.0	141.7
162.5°	139.6	140.3
165°	137.6	138.4
167.5°	136.1	136.5
170°	135.8	135.8
172.5°	134.7	134.4
175°	134.1	134.1
177.5°	133.5	133.2
180°	133.2	133.2



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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	6.02	7.17	6.76	7.94	8.87	19.16	20.31	19.90	21.08	22.01
	3H	6.75	7.79	7.50	8.57	9.52	21.00	22.04	21.76	22.82	23.78
	4H	7.06	8.04	7.83	8.83	9.80	21.65	22.64	22.42	23.42	24.39
	6H	7.32	8.23	8.11	9.03	10.01	22.08	23.00	22.87	23.79	24.78
	8H	7.40	8.27	8.20	9.09	10.07	22.21	23.08	23.00	23.89	24.88
	12H	7.43	8.26	8.23	9.07	10.08	22.28	23.11	23.08	23.92	24.93
4H	2H	13.24	14.23	14.02	15.02	15.98	19.47	20.45	20.24	21.24	22.21
	3H	14.84	15.67	15.63	16.49	17.47	21.52	22.35	22.31	23.17	24.16
	4H	14.95	15.70	15.75	16.52	17.54	22.29	23.05	23.10	23.87	24.88
	6H	14.98	15.63	15.80	16.48	17.50	22.84	23.49	23.66	24.34	25.36
	8H	14.96	15.57	15.79	16.42	17.45	23.00	23.61	23.83	24.46	25.49
	12H	14.93	15.49	15.78	16.35	17.39	23.10	23.65	23.95	24.52	25.56
8H	4H	16.41	17.02	17.23	17.86	18.89	22.38	22.99	23.21	23.84	24.87
	6H	16.66	17.17	17.52	18.06	19.09	23.01	23.52	23.86	24.40	25.44
	8H	16.69	17.14	17.55	18.02	19.07	23.23	23.68	24.09	24.56	25.61
	12H	16.67	17.07	17.54	17.94	19.04	23.38	23.78	24.25	24.65	25.75
12H	4H	16.56	17.12	17.41	17.98	19.02	22.35	22.90	23.19	23.76	24.80
	6H	16.92	17.38	17.79	18.26	19.30	23.00	23.45	23.86	24.33	25.38
	8H	17.01	17.41	17.88	18.28	19.38	23.24	23.64	24.10	24.51	25.61