

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: P936234

Luminaire Tested: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936234
REPORT IS A COMBINATION OF REPORTS P933437 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-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

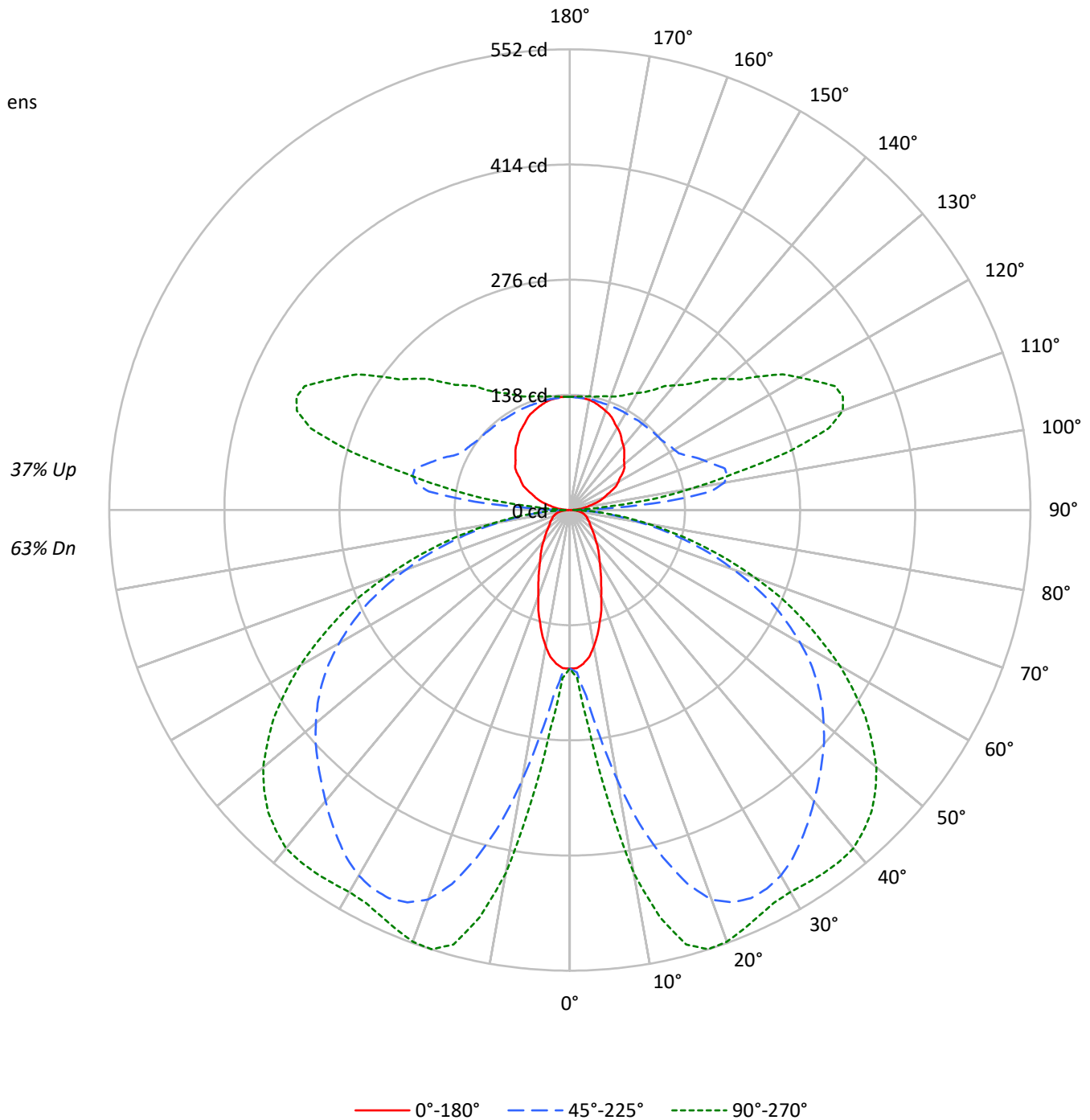
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2348.6 lumens
Efficiency: N/A
Efficacy: 106.8 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): 22
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: P936234
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Luminous Intensity Polar Plot





TEST NUMBER: P936234

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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	64	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°	1761	1761	1761
5°	1719	2033	2367
10°	1557	2962	3924
15°	1322	3868	4739
20°	1075	4479	4829
25°	896	4683	4731
30°	754	4709	4723
35°	666	4627	4844
40°	579	4523	4970
45°	522	4444	4990
50°	479	4372	4908
55°	458	4270	4689
60°	466	4077	4345
65°	483	3786	3874
70°	510	3295	3274
75°	561	2678	2554
80°	599	1853	1721
85°	505	980	879

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4990 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.6	1.0
10°-20°	108.8	4.6
20°-30°	190.3	8.1
30°-40°	245.0	10.4
40°-50°	273.7	11.7
50°-60°	262.1	11.2
60°-70°	207.7	8.8
70°-80°	122.1	5.2
80°-90°	34.4	1.5
90°-100°	66.2	2.8
100°-110°	174.0	7.4
110°-120°	180.4	7.7
120°-130°	144.7	6.2
130°-140°	113.5	4.8
140°-150°	87.1	3.7
150°-160°	62.7	2.7
160°-170°	38.4	1.6
170°-180°	13.0	0.6
0°-30°	323.7	13.8
0°-40°	568.7	24.2
0°-60°	1104.4	47.0
0°-90°	1468.7	62.5
90°-120°	420.5	17.9
90°-150°	765.9	32.6
90°-180°	880.0	37.5
0°-180°	2348.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	190	190	190	190	190	
5°	185	198	223	253	262	17
15°	138	256	431	522	539	39
25°	88	290	513	536	536	41
35°	60	277	483	511	531	37
45°	41	221	427	489	511	32
55°	29	140	362	421	433	27
65°	23	74	269	303	307	23
75°	17	46	148	162	163	18
85°	6	14	37	40	41	6
90°	1	2	7	4	4	1
95°	9	34	114	59	40	10
105°	31	48	192	292	272	33
115°	56	68	154	307	351	55
125°	77	87	140	237	279	69
135°	92	102	136	191	217	71
145°	107	114	134	163	176	67
155°	121	124	134	147	152	56
165°	130	132	134	139	141	37
175°	136	136	135	137	137	13
180°	136	136	136	136	136	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8	189.8
2.5°	189.8	189.8	191.0	191.6	192.8	193.5	194.7	195.8	199.6	200.1	201.4
5°	184.9	187.4	195.3	198.3	206.9	218.5	223.3	231.3	247.8	252.6	255.7
7.5°	177.6	183.1	202.6	207.5	228.9	259.3	272.2	289.3	315.5	328.3	338.7
10°	166.0	177.6	212.4	224.0	258.7	305.1	328.9	352.8	392.4	410.1	416.8
12.5°	153.2	172.1	222.8	238.6	288.6	356.4	385.0	411.3	456.5	480.3	483.9
15°	138.5	164.2	232.5	255.7	320.4	399.1	430.8	463.2	505.3	522.3	526.6
17.5°	125.7	158.1	241.7	266.1	344.8	437.5	469.9	496.8	530.9	542.5	545.5
20°	109.9	148.3	247.8	279.5	370.4	465.6	496.8	517.5	540.7	548.0	549.2
22.5°	98.2	137.9	251.4	284.4	387.5	482.7	508.9	525.4	541.2	543.7	544.3
25°	88.5	126.3	250.8	289.9	402.2	493.0	513.2	525.4	534.6	535.8	535.8
27.5°	79.3	113.5	248.3	291.1	413.2	495.5	511.4	519.9	524.2	526.6	526.6
30°	71.4	101.3	242.2	288.6	418.0	493.0	505.8	510.1	514.4	518.1	519.9
32.5°	65.3	89.7	233.1	283.7	418.6	486.9	496.1	498.6	504.7	513.2	516.2
35°	59.8	78.1	222.8	277.1	415.0	477.2	483.3	485.7	497.9	510.8	515.0
37.5°	54.3	69.6	209.3	265.4	409.4	465.6	469.9	474.2	493.0	508.3	513.2
40°	48.8	62.2	193.5	252.6	401.0	451.5	455.3	461.9	486.9	504.7	509.6
42.5°	44.6	56.1	176.4	239.2	390.0	435.7	441.2	451.0	479.7	498.6	504.0
45°	40.8	50.0	158.1	220.9	375.9	419.3	427.2	440.6	471.1	489.4	494.3
47.5°	37.2	45.8	139.2	202.0	360.7	402.8	413.2	428.3	459.5	477.2	481.5
50°	34.2	41.5	120.3	181.8	344.2	385.0	397.2	413.2	444.9	461.4	466.8
52.5°	31.7	37.8	102.5	161.7	325.3	366.8	380.8	397.2	427.2	443.0	446.7
55°	29.3	34.7	87.2	140.4	305.7	347.2	362.5	378.3	407.6	421.1	423.5
57.5°	28.1	32.4	74.4	120.3	285.0	325.3	342.3	356.9	384.4	394.8	397.2
60°	26.2	30.5	64.7	103.2	262.4	304.5	319.2	333.8	356.9	365.5	367.4
62.5°	24.4	29.3	57.4	86.7	239.2	280.1	294.7	308.2	327.7	333.8	336.2
65°	23.2	28.1	51.8	74.4	215.4	254.4	269.1	280.7	296.5	302.6	303.9
67.5°	22.0	26.8	47.6	64.0	191.6	228.9	239.8	250.8	263.0	269.1	269.7
70°	20.1	25.7	43.9	56.8	167.2	199.6	208.7	220.3	230.0	233.1	235.0
72.5°	18.9	23.8	41.5	51.3	142.2	171.5	180.0	186.7	195.3	198.3	198.3
75°	17.1	21.4	39.0	45.8	116.5	140.4	147.6	154.4	161.1	162.3	160.5
77.5°	15.3	18.9	33.6	38.5	91.0	111.1	117.2	120.8	126.3	127.5	128.2
80°	12.8	16.5	26.2	29.9	65.9	81.8	86.1	89.1	94.0	94.0	95.2
82.5°	9.7	12.8	18.9	21.4	44.6	56.1	59.8	61.7	64.7	64.7	64.7
85°	6.1	7.9	12.2	14.0	26.8	34.2	36.7	37.2	39.7	40.3	40.3
87.5°	3.1	4.3	7.9	8.6	14.0	17.7	17.7	18.9	18.9	18.3	17.7
90°	0.9	1.6	2.4	2.5	4.0	5.9	6.9	6.2	4.6	3.5	3.5
92.5°	3.6	9.8	16.0	17.6	24.7	34.3	39.0	34.2	24.6	17.3	16.6
95°	8.7	20.1	31.5	34.3	60.9	96.2	114.0	101.7	77.1	58.8	56.7
97.5°	15.1	25.1	35.1	37.7	82.0	141.0	170.6	162.8	147.3	135.6	131.6
100°	20.0	29.1	38.2	40.5	89.6	155.2	187.9	188.5	189.7	190.5	185.7
102.5°	24.2	32.7	41.2	43.3	93.1	159.6	192.8	202.8	222.5	237.3	233.2
105°	31.4	38.6	45.7	47.5	95.8	160.1	192.3	214.5	258.8	292.0	289.8
107.5°	38.7	45.3	52.0	53.7	96.2	153.0	181.4	212.3	274.1	320.5	321.0
110°	43.6	49.6	55.6	57.1	95.5	146.7	172.3	206.9	275.9	327.7	330.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.4	54.1	59.9	61.3	95.5	141.2	164.0	199.4	270.1	323.1	326.6
115°	55.7	60.9	66.2	67.6	96.4	134.9	154.1	188.1	256.2	307.3	312.1
117.5°	62.9	67.7	72.5	73.7	98.2	130.9	147.3	178.0	239.4	285.5	290.9
120°	67.0	71.6	76.1	77.2	99.6	129.5	144.5	172.6	228.8	270.9	276.1
122.5°	71.1	75.7	80.2	81.4	101.7	128.8	142.4	167.6	218.2	256.2	261.2
125°	77.4	81.6	85.8	86.9	104.6	128.3	140.1	161.6	204.6	236.8	241.5
127.5°	82.5	86.8	91.0	92.1	107.4	127.9	138.2	156.6	193.6	221.2	225.2
130°	85.2	89.8	94.3	95.5	109.5	128.2	137.4	153.9	186.7	211.4	215.0
132.5°	88.1	92.7	97.2	98.3	111.2	128.3	136.8	151.5	180.9	203.0	206.3
135°	92.3	96.4	100.6	101.6	113.0	128.2	135.7	148.0	172.6	191.1	193.9
137.5°	96.6	100.7	104.8	105.8	115.7	128.9	135.5	145.9	166.7	182.4	184.7
140°	100.2	103.9	107.7	108.6	117.3	129.1	134.9	143.9	161.9	175.4	177.6
142.5°	102.9	106.3	109.8	110.7	118.8	129.5	134.9	142.8	158.6	170.5	172.4
145°	107.1	110.1	113.2	113.9	120.6	129.5	134.0	140.4	153.4	163.1	164.6
147.5°	111.2	114.2	117.2	117.9	123.3	130.4	134.0	139.1	149.3	156.9	158.1
150°	114.0	116.6	119.3	120.0	124.6	130.9	134.0	138.3	146.9	153.4	154.3
152.5°	116.8	118.8	120.8	121.3	125.5	131.2	134.0	137.6	145.0	150.5	151.3
155°	121.0	122.4	124.0	124.3	127.5	131.8	134.0	136.9	142.8	147.2	147.6
157.5°	124.1	125.5	127.0	127.3	129.5	132.5	134.0	136.3	140.8	144.2	144.5
160°	126.2	127.3	128.4	128.7	130.4	132.8	134.0	135.9	139.8	142.7	142.9
162.5°	128.3	129.1	130.0	130.2	131.4	133.2	134.0	135.6	138.9	141.4	141.5
165°	130.5	131.3	132.1	132.3	132.8	133.6	134.0	135.2	137.5	139.3	139.4
167.5°	132.6	133.0	133.4	133.4	133.9	134.5	134.9	135.6	137.2	138.4	138.4
170°	134.0	134.4	134.7	134.8	134.8	134.9	134.9	135.6	137.2	138.4	138.4
172.5°	134.7	134.8	134.9	134.9	134.9	134.9	134.9	135.5	136.7	137.6	137.5
175°	135.7	135.7	135.7	135.7	135.4	135.1	134.9	135.3	136.1	136.6	136.6
177.5°	135.7	135.7	135.7	135.7	135.5	135.3	135.1	135.4	136.0	136.4	136.4
180°	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7	135.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	189.8	189.8
2.5°	202.6	201.4
5°	260.6	261.8
7.5°	350.8	350.3
10°	436.4	441.8
12.5°	498.6	499.8
15°	536.4	538.9
17.5°	551.1	551.7
20°	551.7	550.4
22.5°	545.0	543.7
25°	537.0	536.4
27.5°	529.7	530.3
30°	526.6	528.5
32.5°	526.6	529.7
35°	527.9	530.9
37.5°	527.2	530.9
40°	524.8	529.0
42.5°	518.1	521.1
45°	507.7	511.4
47.5°	494.3	496.8
50°	477.2	479.7
52.5°	455.8	456.5
55°	430.3	432.6
57.5°	402.8	403.3
60°	372.2	374.0
62.5°	339.9	339.9
65°	305.7	306.9
67.5°	270.3	273.3
70°	234.3	235.0
72.5°	198.9	198.9
75°	162.3	162.9
77.5°	127.5	127.5
80°	94.6	95.2
82.5°	65.3	66.5
85°	40.8	40.8
87.5°	18.9	17.1
90°	3.5	3.5
92.5°	13.8	11.1
95°	48.4	40.0
97.5°	115.8	100.0
100°	166.9	148.0
102.5°	217.0	200.8
105°	281.2	272.4
107.5°	323.1	325.2
110°	339.0	348.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	340.5	354.4
115°	331.5	350.8
117.5°	312.3	333.7
120°	296.9	317.6
122.5°	281.8	302.4
125°	260.4	279.3
127.5°	241.1	257.1
130°	229.8	244.5
132.5°	219.5	232.7
135°	205.4	216.8
137.5°	194.0	203.4
140°	186.2	194.9
142.5°	179.8	187.3
145°	170.2	175.8
147.5°	162.7	167.5
150°	158.1	161.9
152.5°	154.1	157.0
155°	149.5	151.5
157.5°	145.9	147.3
160°	143.7	144.5
162.5°	142.3	143.0
165°	140.3	141.0
167.5°	138.7	139.1
170°	138.4	138.4
172.5°	137.3	137.0
175°	136.6	136.6
177.5°	136.1	135.7
180°	135.7	135.7



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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	4.02	5.06	4.85	5.92	7.00	17.16	18.20	17.99	19.06	20.14
	3H	4.74	5.67	5.58	6.55	7.65	19.00	19.93	19.84	20.80	21.91
	4H	5.05	5.93	5.91	6.81	7.92	19.64	20.53	20.50	21.40	22.52
	6H	5.31	6.13	6.18	7.01	8.14	20.07	20.89	20.94	21.77	22.90
	8H	5.38	6.16	6.26	7.06	8.19	20.19	20.97	21.07	21.87	23.00
	12H	5.40	6.15	6.29	7.05	8.20	20.26	21.00	21.14	21.90	23.05
4H	2H	11.23	12.12	12.10	13.00	14.11	17.46	18.34	18.32	19.22	20.33
	3H	12.82	13.56	13.70	14.47	15.60	19.50	20.25	20.38	21.16	22.29
	4H	12.92	13.60	13.81	14.51	15.66	20.27	20.95	21.16	21.85	23.01
	6H	12.95	13.53	13.85	14.46	15.62	20.81	21.39	21.71	22.32	23.48
	8H	12.93	13.48	13.84	14.40	15.57	20.97	21.52	21.87	22.44	23.61
	12H	12.89	13.39	13.82	14.33	15.51	21.06	21.56	21.99	22.50	23.68
8H	4H	14.37	14.92	15.28	15.85	17.02	20.35	20.89	21.25	21.82	22.99
	6H	14.62	15.08	15.56	16.05	17.22	20.97	21.43	21.91	22.39	23.56
	8H	14.65	15.05	15.59	16.01	17.19	21.19	21.59	22.13	22.55	23.73
	12H	14.62	14.98	15.57	15.93	17.17	21.33	21.69	22.28	22.64	23.87
12H	4H	14.52	15.02	15.45	15.96	17.14	20.31	20.80	21.24	21.75	22.92
	6H	14.88	15.29	15.83	16.24	17.43	20.96	21.36	21.90	22.32	23.51
	8H	14.96	15.32	15.91	16.27	17.50	21.19	21.54	22.14	22.49	23.73