

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: P937058

Luminaire Tested: SQ4-FB-075U-050D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937058
REPORT IS A COMBINATION OF REPORTS P933501 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-050D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

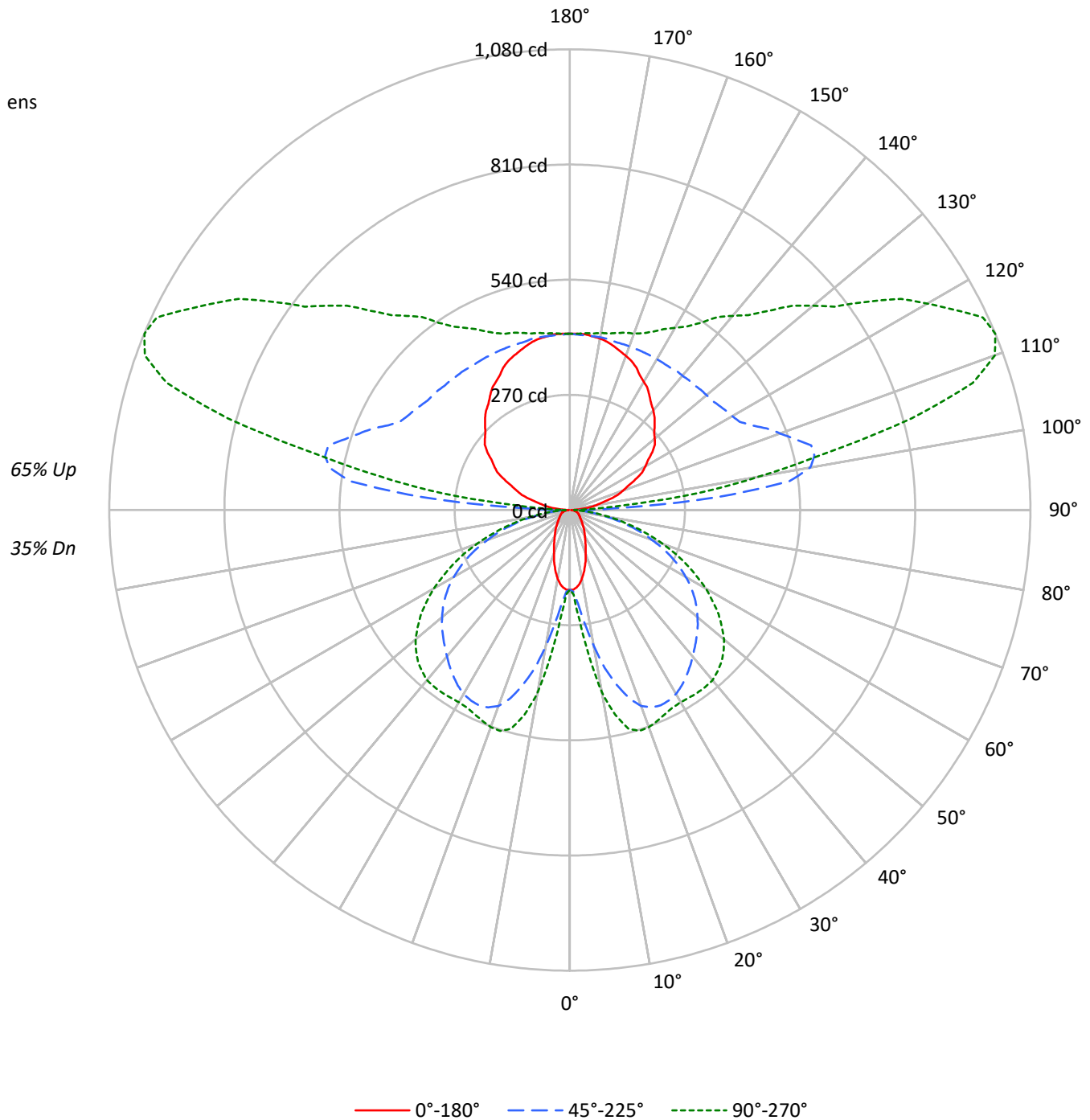
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4127.4 lumens
Efficiency: N/A
Efficacy: 120.0 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-Indirect

Input Watts (W): 34.4
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

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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	0
RCR																					
0	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	42	42	42	35
1	94	90	86	82	85	81	78	75	65	63	61	50	49	47	37	36	35	35	35	35	29
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29	29	29	29	23
3	77	68	61	55	70	62	55	50	49	45	41	38	35	32	28	26	24	24	24	24	19
4	71	60	52	46	63	54	47	42	44	39	35	34	30	27	25	22	20	20	20	20	16
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17	17	17	17	14
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15	15	15	15	12
7	55	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13	13	13	13	10
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12	12	12	12	9
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10	10	10	10	8
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	14	11	9	9	9	9	7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1733	1733	1733
5°	1692	2002	2330
10°	1533	2916	3863
15°	1302	3806	4664
20°	1059	4408	4754
25°	881	4609	4657
30°	743	4635	4648
35°	655	4555	4768
40°	571	4451	4892
45°	515	4373	4911
50°	472	4303	4830
55°	450	4203	4616
60°	459	4013	4278
65°	475	3725	3813
70°	503	3243	3222
75°	551	2636	2515
80°	590	1823	1694
85°	497	964	866

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4911 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.2	0.6
10°-20°	107.1	2.6
20°-30°	187.3	4.5
30°-40°	241.1	5.8
40°-50°	269.3	6.5
50°-60°	258.0	6.3
60°-70°	204.4	5.0
70°-80°	120.2	2.9
80°-90°	35.0	0.8
90°-100°	201.6	4.9
100°-110°	530.0	12.8
110°-120°	549.5	13.3
120°-130°	440.8	10.7
130°-140°	345.9	8.4
140°-150°	265.5	6.4
150°-160°	191.2	4.6
160°-170°	117.0	2.8
170°-180°	39.5	1.0
0°-30°	318.6	7.7
0°-40°	559.7	13.6
0°-60°	1087.0	26.3
0°-90°	1446.6	35.0
90°-120°	1281.1	31.0
90°-150°	2333.1	56.5
90°-180°	2681.0	65.0
0°-180°	4127.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	187	187	187	187	187	
5°	182	195	220	249	258	17
15°	136	252	424	514	530	38
25°	87	285	505	527	528	40
35°	59	273	476	503	522	37
45°	40	217	420	482	503	31
55°	29	138	357	414	426	26
65°	23	73	265	298	302	23
75°	17	45	145	160	160	18
85°	6	14	36	40	40	6
90°	3	8	21	11	11	3
95°	27	104	347	179	122	30
105°	95	145	586	890	830	101
115°	170	206	469	936	1069	168
125°	236	264	427	721	851	209
135°	281	309	414	582	660	218
145°	326	347	408	497	536	204
155°	369	379	408	448	461	169
165°	398	403	408	424	430	112
175°	414	414	411	416	416	39
180°	414	414	414	414	414	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8	186.8
2.5°	186.8	186.8	188.0	188.6	189.8	190.4	191.6	192.8	196.4	197.0	198.2
5°	182.0	184.4	192.2	195.2	203.6	215.1	219.8	227.7	243.9	248.6	251.7
7.5°	174.8	180.2	199.4	204.2	225.3	255.3	267.9	284.7	310.5	323.1	333.3
10°	163.4	174.8	209.1	220.4	254.6	300.3	323.7	347.2	386.2	403.6	410.2
12.5°	150.8	169.4	219.3	234.8	284.1	350.8	379.0	404.9	449.3	472.7	476.3
15°	136.4	161.6	228.8	251.7	315.3	392.8	424.0	455.9	497.3	514.1	518.3
17.5°	123.7	155.6	237.9	261.9	339.3	430.6	462.5	488.9	522.5	534.0	536.9
20°	108.2	145.9	243.9	275.1	364.6	458.3	488.9	509.3	532.2	539.3	540.6
22.5°	96.7	135.7	247.5	279.9	381.4	475.1	500.9	517.1	532.7	535.1	535.8
25°	87.1	124.4	246.8	285.3	395.8	485.3	505.1	517.1	526.2	527.3	527.3
27.5°	78.1	111.7	244.4	286.5	406.7	487.7	503.3	511.8	516.0	518.3	518.3
30°	70.3	99.7	238.4	284.1	411.4	485.3	497.9	502.1	506.3	510.0	511.8
32.5°	64.3	88.3	229.5	279.2	412.0	479.3	488.3	490.7	496.7	505.1	508.1
35°	58.8	76.9	219.3	272.7	408.4	469.7	475.7	478.1	490.1	502.7	506.9
37.5°	53.5	68.5	206.0	261.3	403.0	458.3	462.5	466.7	485.3	500.3	505.1
40°	48.1	61.2	190.4	248.6	394.7	444.4	448.1	454.6	479.3	496.7	501.6
42.5°	43.9	55.2	173.6	235.5	383.8	428.9	434.2	443.9	472.1	490.7	496.1
45°	40.2	49.2	155.6	217.4	369.9	412.6	420.4	433.7	463.7	481.7	486.5
47.5°	36.6	45.0	137.0	198.8	355.0	396.4	406.7	421.6	452.3	469.7	473.9
50°	33.7	40.8	118.4	179.0	338.8	379.0	391.0	406.7	437.9	454.1	459.5
52.5°	31.2	37.2	100.9	159.2	320.2	361.0	374.8	391.0	420.4	436.0	439.7
55°	28.8	34.2	85.9	138.1	300.9	341.7	356.8	372.4	401.2	414.4	416.9
57.5°	27.7	31.9	73.2	118.4	280.5	320.2	336.9	351.3	378.4	388.6	391.0
60°	25.8	30.0	63.7	101.5	258.3	299.8	314.2	328.6	351.3	359.7	361.6
62.5°	24.0	28.8	56.5	85.3	235.5	275.7	290.1	303.3	322.5	328.6	330.9
65°	22.8	27.7	51.0	73.2	212.0	250.4	264.8	276.3	291.9	297.9	299.1
67.5°	21.7	26.4	46.8	63.0	188.6	225.3	236.0	246.8	258.8	264.8	265.5
70°	19.8	25.2	43.2	55.9	164.6	196.4	205.4	216.8	226.4	229.5	231.3
72.5°	18.6	23.5	40.8	50.5	139.9	168.8	177.2	183.8	192.2	195.2	195.2
75°	16.8	21.0	38.4	45.0	114.7	138.1	145.3	151.9	158.6	159.7	157.9
77.5°	15.0	18.6	33.0	37.9	89.5	109.3	115.3	118.9	124.4	125.5	126.1
80°	12.6	16.2	25.8	29.5	64.9	80.5	84.7	87.7	92.5	92.5	93.7
82.5°	9.6	12.6	18.6	21.0	43.9	55.2	58.8	60.7	63.7	63.7	63.7
85°	6.0	7.8	12.0	13.8	26.4	33.7	36.1	36.6	39.0	39.7	39.7
87.5°	3.0	4.2	7.8	8.4	13.8	17.5	17.5	18.6	18.6	18.0	17.5
90°	2.8	5.0	7.3	7.8	12.3	18.2	21.1	18.8	14.1	10.6	10.6
92.5°	11.1	30.0	48.8	53.5	75.3	104.3	118.8	104.1	74.8	52.7	50.7
95°	26.7	61.2	95.8	104.4	185.3	293.2	347.2	309.8	235.0	179.0	172.6
97.5°	46.1	76.5	107.0	114.6	249.6	429.6	519.5	495.9	448.7	413.3	401.2
100°	61.1	88.6	116.3	123.2	273.0	472.7	572.6	574.3	577.7	580.3	565.9
102.5°	73.9	99.6	125.3	131.8	283.7	486.3	587.6	617.7	677.8	723.0	710.6
105°	95.4	117.3	139.1	144.6	291.7	487.9	585.9	653.4	788.3	889.5	882.9
107.5°	117.6	138.1	158.4	163.5	293.2	466.1	552.6	646.7	834.9	976.1	977.7
110°	132.7	151.0	169.5	174.0	291.0	446.9	524.8	630.0	840.4	998.3	1005.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	147.4	164.9	182.4	186.8	291.1	430.1	499.6	607.3	822.6	984.1	994.8
115°	169.6	185.7	201.9	205.9	293.8	410.8	469.3	573.1	780.5	936.1	950.8
117.5°	191.5	206.2	220.9	224.5	299.2	398.7	448.5	542.1	729.3	869.8	886.1
120°	204.3	218.1	231.9	235.4	303.6	394.7	440.1	525.7	696.8	825.1	841.0
122.5°	216.8	230.7	244.6	248.1	310.0	392.5	433.8	510.8	664.9	780.4	796.1
125°	235.9	248.6	261.3	264.5	318.6	390.8	426.9	492.3	623.2	721.4	735.8
127.5°	251.5	264.3	277.1	280.3	327.2	389.8	421.1	477.3	589.7	673.9	686.1
130°	259.8	273.6	287.4	290.9	333.5	390.4	418.8	468.9	568.9	643.9	655.1
132.5°	268.4	282.2	296.0	299.5	338.6	390.8	416.9	461.6	551.2	618.4	628.4
135°	281.1	293.7	306.3	309.4	344.2	390.4	413.5	451.1	526.1	582.3	591.0
137.5°	294.2	306.6	319.1	322.2	352.5	392.9	413.0	444.7	508.1	555.6	562.7
140°	305.0	316.5	328.0	330.8	357.6	393.2	411.0	438.4	493.1	534.2	540.9
142.5°	313.4	323.9	334.5	337.2	361.8	394.7	411.0	435.1	483.2	519.3	525.0
145°	326.1	335.4	344.6	346.9	367.3	394.7	408.3	428.0	467.3	496.8	501.1
147.5°	338.9	347.8	356.9	359.1	375.5	397.3	408.3	423.8	454.7	477.9	481.5
150°	347.2	355.3	363.5	365.6	379.8	398.8	408.3	421.3	447.5	467.1	469.9
152.5°	355.8	362.0	368.2	369.7	382.6	399.7	408.3	419.5	441.7	458.5	460.6
155°	368.6	373.2	377.6	378.8	388.7	401.7	408.3	417.1	434.9	448.2	449.6
157.5°	378.0	382.5	387.0	388.0	394.7	403.8	408.3	415.2	428.9	439.3	440.3
160°	384.4	387.8	391.3	392.1	397.5	404.7	408.3	414.2	426.1	434.9	435.5
162.5°	390.8	393.4	396.0	396.6	400.5	405.7	408.3	413.3	423.2	430.7	431.3
165°	397.7	400.0	402.4	403.0	404.8	407.1	408.3	411.8	419.0	424.4	425.0
167.5°	404.1	405.1	406.3	406.6	408.1	410.1	411.0	413.4	418.1	421.6	421.9
170°	408.3	409.3	410.5	410.8	410.9	410.9	411.0	413.4	418.1	421.6	421.6
172.5°	410.5	410.8	410.9	411.0	411.0	411.0	411.0	412.9	416.6	419.4	419.2
175°	413.5	413.5	413.5	413.5	412.7	411.6	411.0	412.2	414.5	416.3	416.3
177.5°	413.5	413.5	413.5	413.5	412.9	412.0	411.6	412.5	414.4	415.8	415.5
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	186.8	186.8
2.5°	199.4	198.2
5°	256.5	257.7
7.5°	345.3	344.8
10°	429.5	434.9
12.5°	490.7	491.9
15°	528.0	530.4
17.5°	542.4	543.0
20°	543.0	541.8
22.5°	536.4	535.1
25°	528.6	528.0
27.5°	521.3	522.0
30°	518.3	520.2
32.5°	518.3	521.3
35°	519.5	522.5
37.5°	518.9	522.5
40°	516.5	520.7
42.5°	510.0	512.9
45°	499.7	503.3
47.5°	486.5	488.9
50°	469.7	472.1
52.5°	448.6	449.3
55°	423.5	425.8
57.5°	396.4	397.0
60°	366.4	368.2
62.5°	334.6	334.6
65°	300.9	302.1
67.5°	266.1	269.0
70°	230.6	231.3
72.5°	195.8	195.8
75°	159.7	160.4
77.5°	125.5	125.5
80°	93.1	93.7
82.5°	64.3	65.4
85°	40.2	40.2
87.5°	18.6	16.8
90°	10.6	10.6
92.5°	42.3	33.8
95°	147.3	121.9
97.5°	352.8	304.5
100°	508.4	450.7
102.5°	661.3	611.9
105°	856.4	829.9
107.5°	984.1	990.6
110°	1032.8	1060.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1037.2	1079.7
115°	1009.7	1068.6
117.5°	951.4	1016.6
120°	904.4	967.7
122.5°	858.6	921.2
125°	793.3	850.9
127.5°	734.6	783.2
130°	700.0	744.9
132.5°	668.6	708.8
135°	625.6	660.3
137.5°	591.1	619.5
140°	567.4	593.9
142.5°	547.8	570.6
145°	518.4	535.7
147.5°	495.8	510.1
150°	481.6	493.2
152.5°	469.4	478.2
155°	455.4	461.3
157.5°	444.4	448.5
160°	437.8	440.1
162.5°	433.5	435.7
165°	427.3	429.7
167.5°	422.9	423.8
170°	421.6	421.6
172.5°	418.3	417.4
175°	416.3	416.3
177.5°	414.5	413.5
180°	413.5	413.5



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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	1.35	2.11	2.42	3.19	4.66	14.49	15.26	15.56	16.33	17.80
	3H	2.05	2.73	3.12	3.82	5.30	16.31	16.99	17.39	18.08	19.56
	4H	2.34	2.99	3.43	4.08	5.57	16.94	17.59	18.03	18.68	20.17
	6H	2.59	3.19	3.68	4.28	5.78	17.35	17.95	18.45	19.04	20.54
	8H	2.65	3.22	3.75	4.33	5.83	17.46	18.03	18.57	19.14	20.64
	12H	2.67	3.21	3.77	4.31	5.83	17.52	18.06	18.63	19.16	20.68
4H	2H	8.53	9.18	9.63	10.27	11.76	14.75	15.41	15.85	16.49	17.98
	3H	10.09	10.64	11.19	11.75	13.25	16.78	17.32	17.88	18.43	19.94
	4H	10.18	10.68	11.29	11.78	13.31	17.53	18.03	18.64	19.13	20.66
	6H	10.19	10.62	11.30	11.74	13.26	18.05	18.48	19.17	19.61	21.12
	8H	10.16	10.56	11.28	11.68	13.21	18.20	18.60	19.32	19.72	21.26
	12H	10.11	10.48	11.25	11.61	13.15	18.28	18.65	19.42	19.78	21.32
8H	4H	11.61	12.01	12.72	13.13	14.66	17.58	17.98	18.70	19.10	20.64
	6H	11.85	12.18	12.98	13.34	14.87	18.19	18.53	19.33	19.69	21.22
	8H	11.86	12.15	13.01	13.29	14.84	18.40	18.70	19.55	19.84	21.39
	12H	11.83	12.08	12.98	13.22	14.81	18.54	18.79	19.68	19.93	21.51
12H	4H	11.74	12.11	12.88	13.24	14.78	17.53	17.89	18.66	19.02	20.56
	6H	12.10	12.39	13.24	13.53	15.08	18.18	18.47	19.32	19.61	21.16
	8H	12.16	12.42	13.31	13.56	15.14	18.39	18.65	19.54	19.79	21.37