

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: P937039

Luminaire Tested: SQ4-FB-075U-050D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937039
REPORT IS A COMBINATION OF REPORTS P933509 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-050D-92765-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

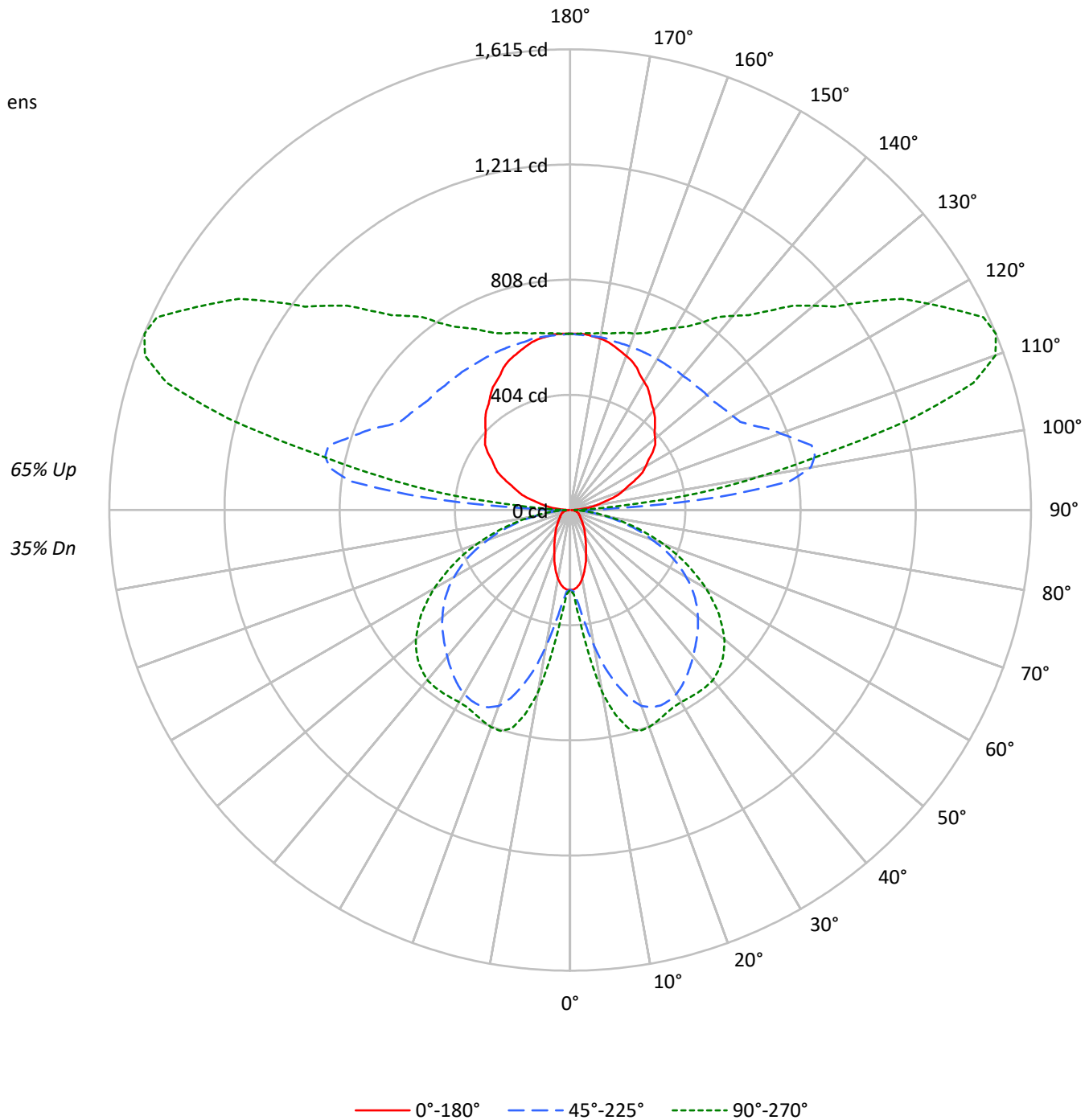
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6171.6 lumens
Efficiency: N/A
Efficacy: 119.6 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-Indirect

Input Watts (W): 51.6
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				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	35				35
1	94	90	86	82	85	81	78	75	65	63	61	50	49	47	37	36	35	29				29
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29	23				23
3	77	68	61	55	70	62	55	50	49	45	41	38	35	32	28	26	24	19				19
4	71	60	52	46	63	54	47	42	44	39	35	34	30	27	25	22	20	16				16
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17	14				14
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15	12				12
7	55	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13	10				10
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12	9				9
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10	8				8
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	14	11	9	7				7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1727	1727	1727
5°	1687	1996	2322
10°	1529	2909	3849
15°	1299	3799	4648
20°	1058	4402	4737
25°	882	4605	4641
30°	744	4634	4632
35°	657	4555	4752
40°	573	4454	4876
45°	518	4379	4895
50°	475	4312	4814
55°	454	4214	4600
60°	465	4027	4263
65°	482	3744	3800
70°	512	3263	3211
75°	567	2658	2506
80°	612	1841	1689
85°	537	976	865

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4895 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.1	0.6
10°-20°	160.1	2.6
20°-30°	280.0	4.5
30°-40°	360.5	5.8
40°-50°	402.6	6.5
50°-60°	385.6	6.2
60°-70°	305.6	5.0
70°-80°	179.7	2.9
80°-90°	52.3	0.8
90°-100°	301.4	4.9
100°-110°	792.6	12.8
110°-120°	821.8	13.3
120°-130°	659.2	10.7
130°-140°	517.2	8.4
140°-150°	397.0	6.4
150°-160°	285.9	4.6
160°-170°	174.9	2.8
170°-180°	59.1	1.0
0°-30°	476.2	7.7
0°-40°	836.7	13.6
0°-60°	1624.9	26.3
0°-90°	2162.5	35.0
90°-120°	1915.8	31.0
90°-150°	3489.2	56.5
90°-180°	4009.0	65.0
0°-180°	6171.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	279	279	279	279	279	
5°	272	292	329	372	385	25
15°	204	376	634	768	793	57
25°	130	426	755	788	789	60
35°	88	408	711	752	781	55
45°	60	325	628	720	752	47
55°	43	206	533	620	637	39
65°	34	110	396	445	452	34
75°	25	67	217	239	240	26
85°	9	21	54	59	60	10
90°	4	12	32	16	16	4
95°	40	156	519	268	182	44
105°	143	216	876	1330	1241	151
115°	254	308	702	1400	1598	250
125°	353	396	638	1079	1273	313
135°	420	463	618	871	987	325
145°	488	519	611	743	801	306
155°	551	566	611	670	690	253
165°	595	603	611	635	642	168
175°	618	618	615	623	623	59
180°	618	618	618	618	618	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2	279.2
2.5°	279.2	279.2	281.0	281.9	283.8	284.7	286.4	288.2	293.6	294.5	296.3
5°	272.1	275.6	287.3	291.8	304.4	321.4	328.6	340.3	364.5	371.7	376.2
7.5°	261.3	269.4	298.0	305.3	336.7	381.6	400.4	425.6	464.2	483.1	498.3
10°	244.2	261.3	312.4	329.6	380.7	448.9	484.0	519.0	577.3	603.3	613.2
12.5°	225.4	253.2	327.7	351.1	424.7	524.3	566.5	605.2	671.6	706.6	712.0
15°	203.8	241.5	342.1	376.2	471.4	587.2	633.8	681.5	743.5	768.5	774.9
17.5°	185.0	232.5	355.5	391.5	507.3	643.8	691.3	730.9	781.1	798.2	802.6
20°	161.7	218.2	364.5	411.2	545.0	685.1	730.9	761.4	795.5	806.3	808.1
22.5°	144.5	202.9	369.9	418.4	570.1	710.2	748.8	773.0	796.4	800.0	800.9
25°	130.2	185.8	369.0	426.5	591.7	725.4	755.1	773.0	786.5	788.3	788.3
27.5°	116.8	167.0	365.4	428.3	607.9	729.1	752.4	765.0	771.2	774.9	774.9
30°	105.1	149.1	356.4	424.7	615.0	725.4	744.4	750.6	756.9	762.3	765.0
32.5°	96.0	132.0	342.9	417.5	615.9	716.5	730.0	733.6	742.5	755.1	759.6
35°	88.0	115.0	327.7	407.7	610.6	702.1	711.1	714.7	732.7	751.5	757.7
37.5°	79.9	102.4	308.0	390.6	602.4	685.1	691.3	697.7	725.4	747.9	755.1
40°	71.9	91.6	284.7	371.7	589.9	664.4	669.8	679.6	716.5	742.5	749.7
42.5°	65.5	82.6	259.5	352.0	573.7	641.1	649.1	663.5	705.7	733.6	741.6
45°	60.2	73.6	232.5	325.0	553.1	616.8	628.5	648.2	693.1	720.1	727.2
47.5°	54.8	67.3	204.7	297.2	530.7	592.6	607.9	630.3	676.1	702.1	708.4
50°	50.3	61.1	176.9	267.5	506.4	566.5	584.5	607.9	654.6	678.7	686.9
52.5°	46.7	55.7	150.9	238.0	478.5	539.6	560.3	584.5	628.5	651.9	657.2
55°	43.1	51.1	128.4	206.5	449.8	510.8	533.3	556.6	599.8	619.5	623.1
57.5°	41.3	47.6	109.5	176.9	419.3	478.5	503.7	525.2	565.7	580.9	584.5
60°	38.7	44.9	95.2	151.7	386.1	448.0	469.6	491.1	525.2	537.8	540.5
62.5°	35.9	43.1	84.4	127.5	352.0	412.1	433.6	453.5	482.1	491.1	494.7
65°	34.1	41.3	76.3	109.5	317.0	374.4	396.0	413.0	436.3	445.3	447.1
67.5°	32.3	39.5	70.1	94.3	281.9	336.7	352.9	369.0	387.0	396.0	396.9
70°	29.6	37.7	64.6	83.5	246.0	293.6	307.1	324.1	338.5	342.9	345.7
72.5°	27.8	35.0	61.1	75.4	209.2	252.3	264.8	274.7	287.3	291.8	291.8
75°	25.2	31.4	57.5	67.3	171.5	206.5	217.3	227.2	237.0	238.9	236.1
77.5°	22.4	27.8	49.4	56.6	133.8	163.4	172.4	177.8	185.8	187.6	188.5
80°	18.8	24.3	38.7	44.0	96.9	120.3	126.6	131.1	138.3	138.3	140.1
82.5°	14.4	18.8	27.8	31.4	65.5	82.6	88.0	90.7	95.2	95.2	95.2
85°	9.0	11.7	17.9	20.6	39.5	50.3	53.9	54.8	58.4	59.3	59.3
87.5°	4.5	6.2	11.7	12.6	20.6	26.1	26.1	27.8	27.8	27.0	26.1
90°	4.1	7.4	10.8	11.6	18.2	27.0	31.5	28.0	21.1	15.8	15.8
92.5°	16.6	44.8	73.0	80.1	112.6	155.9	177.6	155.7	111.8	78.8	75.7
95°	39.8	91.5	143.1	156.0	277.1	438.5	519.2	463.4	351.5	267.7	258.2
97.5°	68.9	114.4	160.0	171.4	373.3	642.4	777.0	741.7	671.1	618.1	599.9
100°	91.3	132.6	174.0	184.3	408.3	707.0	856.3	858.9	864.1	867.9	846.4
102.5°	110.4	149.0	187.5	197.2	424.4	727.2	878.7	923.7	1013.7	1081.2	1062.8
105°	142.8	175.5	208.2	216.3	436.2	729.5	876.2	977.1	1178.9	1330.3	1320.4
107.5°	176.0	206.5	236.9	244.5	438.5	697.0	826.4	967.2	1248.7	1459.8	1462.2
110°	198.4	225.9	253.3	260.2	435.1	668.3	784.9	942.2	1257.0	1493.0	1503.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.4	246.5	272.8	279.3	435.2	643.1	747.1	908.2	1230.2	1471.8	1487.6
115°	253.6	277.8	301.9	308.0	439.3	614.3	701.9	857.0	1167.3	1400.0	1421.9
117.5°	286.4	308.3	330.3	335.8	447.5	596.3	670.7	810.8	1090.8	1300.8	1325.2
120°	305.5	326.2	346.8	352.0	454.1	590.2	658.3	786.2	1042.0	1234.0	1257.7
122.5°	324.2	345.0	365.9	371.1	463.6	587.1	648.8	763.9	994.3	1167.1	1190.5
125°	352.8	371.8	390.8	395.5	476.5	584.4	638.4	736.2	932.0	1078.7	1100.2
127.5°	376.1	395.3	414.4	419.2	489.3	582.9	629.7	713.6	881.7	1007.8	1026.0
130°	388.5	409.2	429.8	435.0	498.8	583.9	626.4	701.2	850.8	963.0	979.7
132.5°	401.3	422.0	442.7	447.8	506.4	584.4	623.4	690.4	824.3	924.8	939.8
135°	420.4	439.3	458.1	462.8	514.7	583.9	618.4	674.5	786.7	870.8	883.7
137.5°	440.0	458.5	477.2	481.8	527.1	587.4	617.6	665.0	759.8	830.9	841.6
140°	456.1	473.3	490.5	494.8	534.8	588.1	614.7	655.6	737.6	799.0	808.9
142.5°	468.6	484.5	500.4	504.3	541.1	590.1	614.7	650.6	722.6	776.6	785.1
145°	487.7	501.6	515.3	518.8	549.4	590.2	610.6	640.0	698.8	742.9	749.4
147.5°	506.7	520.2	533.7	537.1	561.5	594.2	610.6	633.7	680.0	714.7	720.1
150°	519.2	531.4	543.6	546.6	568.0	596.4	610.6	630.1	669.2	698.6	702.9
152.5°	532.1	541.4	550.6	552.9	572.1	597.7	610.6	627.2	660.6	685.7	689.0
155°	551.2	558.0	564.8	566.5	581.2	600.7	610.6	623.9	650.5	670.4	672.5
157.5°	565.3	572.0	578.6	580.3	590.4	603.9	610.6	620.9	641.5	657.1	658.6
160°	574.8	580.0	585.2	586.5	594.5	605.2	610.6	619.4	637.1	650.4	651.3
162.5°	584.4	588.3	592.2	593.1	598.9	606.7	610.6	618.1	633.0	644.2	645.0
165°	594.8	598.3	601.8	602.7	605.3	608.8	610.6	615.9	626.6	634.7	635.5
167.5°	604.3	606.0	607.6	608.1	610.3	613.2	614.7	618.1	625.2	630.5	630.8
170°	610.6	612.2	613.9	614.3	614.4	614.6	614.7	618.1	625.2	630.5	630.5
172.5°	613.9	614.2	614.6	614.7	614.7	614.7	614.7	617.4	623.0	627.2	626.8
175°	618.4	618.4	618.4	618.4	617.2	615.5	614.7	616.4	619.9	622.6	622.6
177.5°	618.4	618.4	618.4	618.4	617.4	616.2	615.6	617.0	619.7	621.8	621.4
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	279.2	279.2
2.5°	298.0	296.3
5°	383.4	385.2
7.5°	516.3	515.4
10°	642.0	650.0
12.5°	733.6	735.3
15°	789.3	792.8
17.5°	810.8	811.7
20°	811.7	809.9
22.5°	801.8	800.0
25°	790.1	789.3
27.5°	779.3	780.2
30°	774.9	777.6
32.5°	774.9	779.3
35°	776.7	781.1
37.5°	775.8	781.1
40°	772.1	778.5
42.5°	762.3	766.8
45°	747.0	752.4
47.5°	727.2	730.9
50°	702.1	705.7
52.5°	670.7	671.6
55°	633.0	636.6
57.5°	592.6	593.5
60°	547.7	550.4
62.5°	500.1	500.1
65°	449.8	451.6
67.5°	397.8	402.2
70°	344.8	345.7
72.5°	292.7	292.7
75°	238.9	239.8
77.5°	187.6	187.6
80°	139.2	140.1
82.5°	96.0	97.8
85°	60.2	60.2
87.5°	27.8	25.2
90°	15.8	15.8
92.5°	63.1	50.6
95°	220.2	182.2
97.5°	527.6	455.3
100°	760.2	674.0
102.5°	989.0	915.2
105°	1280.6	1241.0
107.5°	1471.8	1481.3
110°	1544.6	1585.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1551.1	1614.6
115°	1510.0	1598.0
117.5°	1422.7	1520.3
120°	1352.5	1447.3
122.5°	1284.0	1377.6
125°	1186.5	1272.6
127.5°	1098.6	1171.3
130°	1046.9	1114.0
132.5°	999.9	1060.1
135°	935.6	987.4
137.5°	884.0	926.5
140°	848.6	888.2
142.5°	819.2	853.3
145°	775.2	801.0
147.5°	741.4	762.8
150°	720.3	737.6
152.5°	702.0	715.2
155°	681.2	689.8
157.5°	664.6	670.7
160°	654.7	658.3
162.5°	648.3	651.6
165°	639.0	642.5
167.5°	632.3	633.8
170°	630.5	630.5
172.5°	625.5	624.2
175°	622.6	622.6
177.5°	619.9	618.4
180°	618.4	618.4



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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	14.51	15.28	15.58	16.35	17.82
	3H	2.05	2.73	3.12	3.82	5.30	16.34	17.03	17.42	18.11	19.60
	4H	2.34	2.99	3.43	4.08	5.57	16.98	17.63	18.07	18.72	20.21
	6H	2.58	3.19	3.68	4.27	5.78	17.40	18.00	18.50	19.09	20.59
	8H	2.65	3.22	3.75	4.33	5.82	17.51	18.09	18.62	19.19	20.69
	12H	2.66	3.21	3.77	4.31	5.83	17.58	18.12	18.69	19.22	20.74
4H	2H	8.54	9.20	9.64	10.28	11.77	14.78	15.43	15.87	16.51	18.01
	3H	10.10	10.65	11.21	11.76	13.27	16.81	17.35	17.91	18.47	19.97
	4H	10.19	10.70	11.30	11.80	13.32	17.57	18.07	18.68	19.17	20.70
	6H	10.20	10.63	11.32	11.76	13.27	18.10	18.53	19.21	19.65	21.17
	8H	10.17	10.58	11.29	11.69	13.23	18.25	18.66	19.37	19.77	21.31
	12H	10.12	10.49	11.26	11.62	13.16	18.34	18.70	19.47	19.83	21.37
8H	4H	11.63	12.03	12.74	13.15	14.68	17.62	18.02	18.74	19.14	20.67
	6H	11.86	12.20	13.00	13.36	14.89	18.24	18.57	19.38	19.73	21.26
	8H	11.88	12.17	13.03	13.31	14.86	18.46	18.75	19.60	19.89	21.44
	12H	11.84	12.10	12.99	13.24	14.82	18.59	18.85	19.74	19.99	21.57
12H	4H	11.76	12.13	12.90	13.26	14.80	17.57	17.93	18.70	19.06	20.60
	6H	12.12	12.41	13.26	13.55	15.10	18.22	18.51	19.37	19.65	21.20
	8H	12.19	12.44	13.33	13.58	15.16	18.45	18.70	19.59	19.84	21.42