

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: P937062

Luminaire Tested: SQ4-FB-075U-050D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

**Test Information**

Test Method: LM-79-2019  
Report Number: P937062  
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-93050-1D-UNV-STD-W-6-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

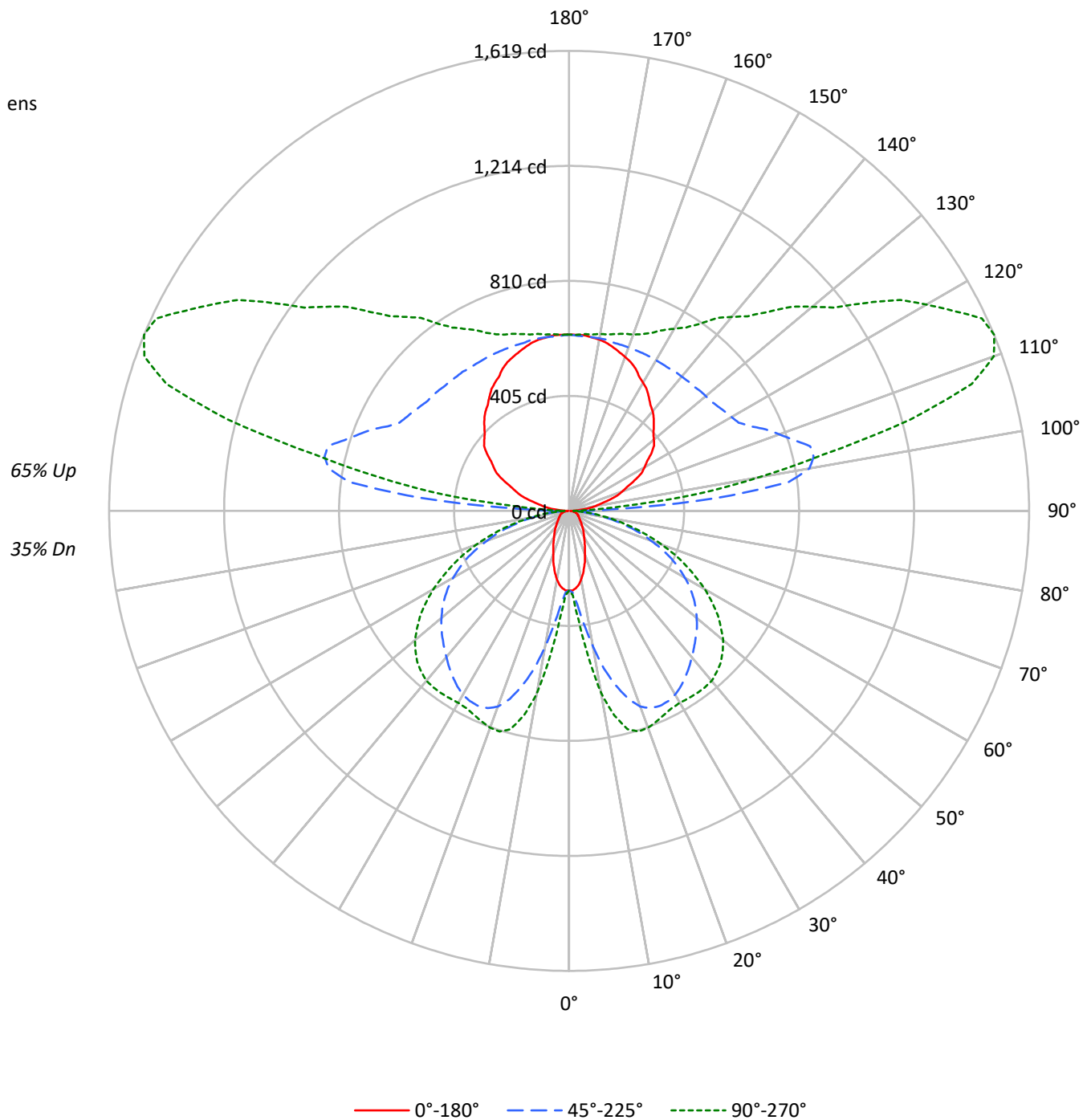
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6190.2 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: 6' x H: 0.1')  
CIE Type: Semi-Indirect

Input Watts (W): 51.6  
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	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°	1733	1733	1733
5°	1692	2002	2329
10°	1534	2918	3861
15°	1303	3811	4662
20°	1061	4415	4751
25°	885	4619	4655
30°	746	4647	4646
35°	659	4568	4766
40°	574	4467	4890
45°	519	4392	4910
50°	476	4325	4828
55°	455	4226	4614
60°	467	4039	4276
65°	483	3755	3811
70°	514	3273	3221
75°	567	2665	2514
80°	615	1847	1693
85°	537	979	866

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 4910 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.2	0.6
10°-20°	160.6	2.6
20°-30°	280.9	4.5
30°-40°	361.5	5.8
40°-50°	403.8	6.5
50°-60°	386.8	6.2
60°-70°	306.5	5.0
70°-80°	180.2	2.9
80°-90°	52.4	0.8
90°-100°	302.4	4.9
100°-110°	794.9	12.8
110°-120°	824.3	13.3
120°-130°	661.2	10.7
130°-140°	518.8	8.4
140°-150°	398.2	6.4
150°-160°	286.8	4.6
160°-170°	175.5	2.8
170°-180°	59.3	1.0
0°-30°	477.7	7.7
0°-40°	839.2	13.6
0°-60°	1629.8	26.3
0°-90°	2169.0	35.0
90°-120°	1921.6	31.0
90°-150°	3499.7	56.5
90°-180°	4021.0	65.0
0°-180°	6190.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	280	280	280	280	280	
5°	273	293	330	373	386	25
15°	204	377	636	771	795	57
25°	131	428	757	791	792	60
35°	88	409	713	754	784	55
45°	60	326	630	722	755	47
55°	43	207	535	621	638	39
65°	34	110	397	447	453	34
75°	25	68	218	240	240	26
85°	9	21	54	59	60	10
90°	4	12	32	16	16	4
95°	40	156	521	268	183	44
105°	143	217	879	1334	1245	152
115°	254	309	704	1404	1603	251
125°	354	397	640	1082	1276	314
135°	422	464	620	873	990	326
145°	489	520	612	745	804	306
155°	553	568	612	672	692	254
165°	596	604	612	637	644	168
175°	620	620	616	624	624	59
180°	620	620	620	620	620	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1	280.1
2.5°	280.1	280.1	281.8	282.7	284.6	285.5	287.3	289.1	294.5	295.4	297.2
5°	272.9	276.5	288.2	292.7	305.3	322.4	329.6	341.3	365.6	372.8	377.4
7.5°	262.1	270.2	298.9	306.2	337.7	382.7	401.6	426.9	465.6	484.5	499.9
10°	245.0	262.1	313.4	330.5	381.9	450.3	485.4	520.5	579.1	605.1	615.1
12.5°	226.1	254.0	328.7	352.1	426.0	525.9	568.3	607.0	673.6	708.7	714.1
15°	204.4	242.3	343.1	377.4	472.8	588.9	635.8	683.6	745.7	770.9	777.2
17.5°	185.5	233.2	356.6	392.7	508.8	645.7	693.4	733.1	783.5	800.6	805.1
20°	162.1	218.8	365.6	412.5	546.7	687.2	733.1	763.7	797.9	808.7	810.5
22.5°	145.0	203.5	371.0	419.6	571.8	712.3	751.1	775.3	798.8	802.4	803.3
25°	130.6	186.4	370.1	427.8	593.5	727.6	757.3	775.3	788.9	790.7	790.7
27.5°	117.1	167.5	366.5	429.6	609.7	731.3	754.7	767.3	773.5	777.2	777.2
30°	105.4	149.5	357.5	426.0	616.9	727.6	746.6	752.9	759.1	764.6	767.3
32.5°	96.3	132.4	344.0	418.7	617.8	718.7	732.2	735.8	744.7	757.3	761.9
35°	88.3	115.3	328.7	408.9	612.4	704.3	713.2	716.9	734.9	753.8	760.0
37.5°	80.1	102.7	308.9	391.8	604.2	687.2	693.4	699.8	727.6	750.2	757.3
40°	72.1	91.9	285.5	372.8	591.7	666.4	671.8	681.7	718.7	744.7	752.0
42.5°	65.7	82.8	260.3	353.0	575.4	643.0	651.1	665.5	707.8	735.8	743.8
45°	60.3	73.9	233.2	326.0	554.7	618.7	630.4	650.2	695.2	722.2	729.4
47.5°	55.0	67.5	205.3	298.0	532.3	594.4	609.7	632.2	678.1	704.3	710.5
50°	50.4	61.2	177.5	268.3	507.9	568.3	586.3	609.7	656.5	680.8	688.9
52.5°	46.8	55.9	151.3	238.7	480.0	541.2	562.0	586.3	630.4	653.8	659.2
55°	43.2	51.3	128.7	207.1	451.1	512.4	534.9	558.3	601.6	621.3	625.0
57.5°	41.5	47.7	109.9	177.5	420.5	480.0	505.2	526.8	567.4	582.7	586.3
60°	38.8	45.0	95.4	152.2	387.2	449.4	471.0	492.6	526.8	539.4	542.1
62.5°	36.0	43.2	84.7	127.9	353.0	413.4	434.9	454.8	483.6	492.6	496.2
65°	34.2	41.5	76.5	109.9	317.9	375.5	397.2	414.3	437.6	446.7	448.5
67.5°	32.4	39.7	70.3	94.5	282.7	337.7	353.9	370.1	388.1	397.2	398.1
70°	29.7	37.8	64.8	83.7	246.7	294.5	308.0	325.1	339.5	344.0	346.8
72.5°	27.9	35.1	61.2	75.7	209.9	253.0	265.6	275.6	288.2	292.7	292.7
75°	25.2	31.5	57.7	67.5	172.0	207.1	217.9	227.9	237.7	239.6	236.8
77.5°	22.5	27.9	49.5	56.8	134.2	163.9	172.9	178.3	186.4	188.2	189.1
80°	18.9	24.4	38.8	44.1	97.2	120.7	127.0	131.5	138.7	138.7	140.5
82.5°	14.4	18.9	27.9	31.5	65.7	82.8	88.3	91.0	95.4	95.4	95.4
85°	9.0	11.7	18.0	20.7	39.7	50.4	54.1	55.0	58.6	59.4	59.4
87.5°	4.5	6.3	11.7	12.6	20.7	26.1	26.1	27.9	27.9	27.0	26.1
90°	4.1	7.4	10.8	11.6	18.3	27.1	31.6	28.1	21.1	15.8	15.8
92.5°	16.7	44.9	73.2	80.3	112.9	156.4	178.2	156.1	112.1	79.1	75.9
95°	39.9	91.8	143.5	156.5	277.9	439.9	520.8	464.8	352.6	268.5	259.0
97.5°	69.1	114.8	160.4	171.9	374.4	644.4	779.4	743.9	673.1	619.9	601.7
100°	91.6	133.0	174.5	184.9	409.5	709.1	858.9	861.5	866.7	870.5	848.9
102.5°	110.8	149.4	188.1	197.8	425.6	729.4	881.3	926.5	1016.8	1084.5	1066.0
105°	143.2	176.0	208.8	216.9	437.5	731.7	878.8	980.0	1182.4	1334.3	1324.3
107.5°	176.6	207.1	237.6	245.2	439.8	699.1	828.9	970.1	1252.5	1464.2	1466.6
110°	199.0	226.6	254.1	261.0	436.4	670.3	787.2	945.1	1260.8	1497.5	1507.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	221.1	247.3	273.6	280.1	436.6	645.1	749.4	910.9	1233.9	1476.2	1492.1
115°	254.4	278.6	302.8	308.9	440.6	616.2	704.0	859.6	1170.8	1404.2	1426.2
117.5°	287.2	309.2	331.3	336.8	448.8	598.1	672.7	813.2	1094.1	1304.7	1329.2
120°	306.4	327.1	347.8	353.0	455.4	592.0	660.3	788.6	1045.2	1237.7	1261.5
122.5°	325.2	346.0	367.0	372.2	465.0	588.8	650.7	766.2	997.3	1170.6	1194.1
125°	353.8	372.9	392.0	396.7	477.9	586.2	640.3	738.5	934.8	1082.0	1103.6
127.5°	377.2	396.4	415.6	420.4	490.8	584.6	631.6	715.8	884.4	1010.8	1029.1
130°	389.6	410.4	431.1	436.3	500.3	585.6	628.2	703.3	853.3	965.9	982.7
132.5°	402.5	423.3	444.0	449.2	507.9	586.2	625.3	692.4	826.8	927.5	942.6
135°	421.7	440.6	459.5	464.2	516.2	585.6	620.3	676.5	789.0	873.4	886.4
137.5°	441.3	459.9	478.6	483.3	528.7	589.2	619.5	667.0	762.1	833.4	844.1
140°	457.5	474.7	492.0	496.3	536.4	589.8	616.5	657.6	739.8	801.4	811.3
142.5°	470.0	486.0	501.9	505.9	542.7	591.9	616.5	652.6	724.8	778.9	787.5
145°	489.2	503.1	516.9	520.4	551.1	592.0	612.4	641.9	700.9	745.2	751.6
147.5°	508.3	521.8	535.3	538.7	563.2	596.0	612.4	635.6	682.0	716.9	722.2
150°	520.8	533.0	545.2	548.3	569.7	598.2	612.4	632.0	671.2	700.7	705.1
152.5°	533.7	543.0	552.2	554.6	573.8	599.5	612.4	629.1	662.6	687.8	691.1
155°	552.9	559.7	566.6	568.3	582.9	602.5	612.4	625.7	652.4	672.4	674.5
157.5°	567.0	573.7	580.3	582.0	592.2	605.7	612.4	622.8	643.5	659.0	660.6
160°	576.6	581.8	587.0	588.2	596.3	607.0	612.4	621.3	639.0	652.3	653.2
162.5°	586.2	590.1	593.9	594.9	600.8	608.5	612.4	619.9	634.9	646.1	647.0
165°	596.5	600.1	603.6	604.5	607.1	610.6	612.4	617.8	628.5	636.6	637.5
167.5°	606.1	607.8	609.4	609.9	612.1	615.1	616.5	620.0	627.1	632.4	632.7
170°	612.4	614.1	615.7	616.2	616.2	616.4	616.5	620.0	627.1	632.4	632.4
172.5°	615.7	616.1	616.4	616.5	616.5	616.5	616.5	619.3	624.8	629.0	628.7
175°	620.3	620.3	620.3	620.3	619.0	617.3	616.5	618.3	621.8	624.5	624.5
177.5°	620.3	620.3	620.3	620.3	619.3	618.0	617.4	618.8	621.6	623.7	623.3
180°	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3	620.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	280.1	280.1
2.5°	298.9	297.2
5°	384.5	386.3
7.5°	517.8	517.0
10°	643.9	652.0
12.5°	735.8	737.6
15°	791.6	795.2
17.5°	813.2	814.1
20°	814.1	812.3
22.5°	804.2	802.4
25°	792.5	791.6
27.5°	781.7	782.6
30°	777.2	779.9
32.5°	777.2	781.7
35°	779.0	783.5
37.5°	778.1	783.5
40°	774.4	780.8
42.5°	764.6	769.1
45°	749.3	754.7
47.5°	729.4	733.1
50°	704.3	707.8
52.5°	672.7	673.6
55°	634.9	638.5
57.5°	594.4	595.3
60°	549.4	552.0
62.5°	501.6	501.6
65°	451.1	452.9
67.5°	399.0	403.4
70°	345.9	346.8
72.5°	293.6	293.6
75°	239.6	240.5
77.5°	188.2	188.2
80°	139.6	140.5
82.5°	96.3	98.1
85°	60.3	60.3
87.5°	27.9	25.2
90°	15.8	15.8
92.5°	63.3	50.8
95°	220.9	182.7
97.5°	529.2	456.7
100°	762.4	676.1
102.5°	992.0	918.0
105°	1284.5	1244.8
107.5°	1476.2	1485.8
110°	1549.2	1590.7





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	1555.8	1619.4
115°	1514.5	1602.8
117.5°	1427.0	1524.9
120°	1356.6	1451.7
122.5°	1287.9	1381.7
125°	1190.0	1276.4
127.5°	1102.0	1174.8
130°	1050.0	1117.3
132.5°	1002.9	1063.3
135°	938.4	990.4
137.5°	886.6	929.2
140°	851.2	890.9
142.5°	821.7	855.9
145°	777.6	803.5
147.5°	743.6	765.1
150°	722.4	739.8
152.5°	704.2	717.3
155°	683.2	691.9
157.5°	666.6	672.7
160°	656.7	660.3
162.5°	650.3	653.6
165°	641.0	644.4
167.5°	634.2	635.7
170°	632.4	632.4
172.5°	627.4	626.1
175°	624.5	624.5
177.5°	621.8	620.3
180°	620.3	620.3



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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	1.36	2.13	2.43	3.20	4.67	14.52	15.29	15.59	16.37	17.83
	3H	2.06	2.75	3.14	3.83	5.32	16.35	17.04	17.43	18.12	19.61
	4H	2.35	3.01	3.44	4.09	5.58	16.99	17.64	18.08	18.73	20.22
	6H	2.60	3.20	3.70	4.29	5.79	17.41	18.01	18.51	19.10	20.60
	8H	2.66	3.24	3.77	4.34	5.84	17.53	18.10	18.63	19.20	20.70
	12H	2.68	3.22	3.79	4.32	5.84	17.59	18.13	18.70	19.23	20.75
4H	2H	8.55	9.21	9.65	10.29	11.78	14.79	15.44	15.88	16.53	18.02
	3H	10.11	10.66	11.22	11.77	13.28	16.82	17.37	17.92	18.48	19.98
	4H	10.20	10.71	11.31	11.81	13.33	17.58	18.08	18.69	19.18	20.71
	6H	10.21	10.64	11.33	11.77	13.28	18.11	18.54	19.22	19.66	21.18
	8H	10.18	10.59	11.30	11.70	13.24	18.26	18.67	19.38	19.78	21.32
	12H	10.14	10.50	11.27	11.63	13.17	18.35	18.72	19.48	19.84	21.38
8H	4H	11.64	12.04	12.75	13.16	14.69	17.63	18.03	18.75	19.15	20.68
	6H	11.87	12.21	13.01	13.37	14.90	18.25	18.58	19.39	19.74	21.27
	8H	11.89	12.18	13.04	13.32	14.87	18.47	18.76	19.61	19.90	21.45
	12H	11.86	12.11	13.00	13.25	14.83	18.60	18.86	19.75	20.00	21.58
12H	4H	11.77	12.14	12.91	13.27	14.81	17.58	17.94	18.71	19.07	20.61
	6H	12.13	12.42	13.28	13.56	15.11	18.23	18.53	19.38	19.66	21.22
	8H	12.20	12.45	13.34	13.59	15.17	18.46	18.71	19.60	19.85	21.43