

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: P936323

Luminaire Tested: SQ4-FB-025U-075D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936323
REPORT IS A COMBINATION OF REPORTS P933446 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

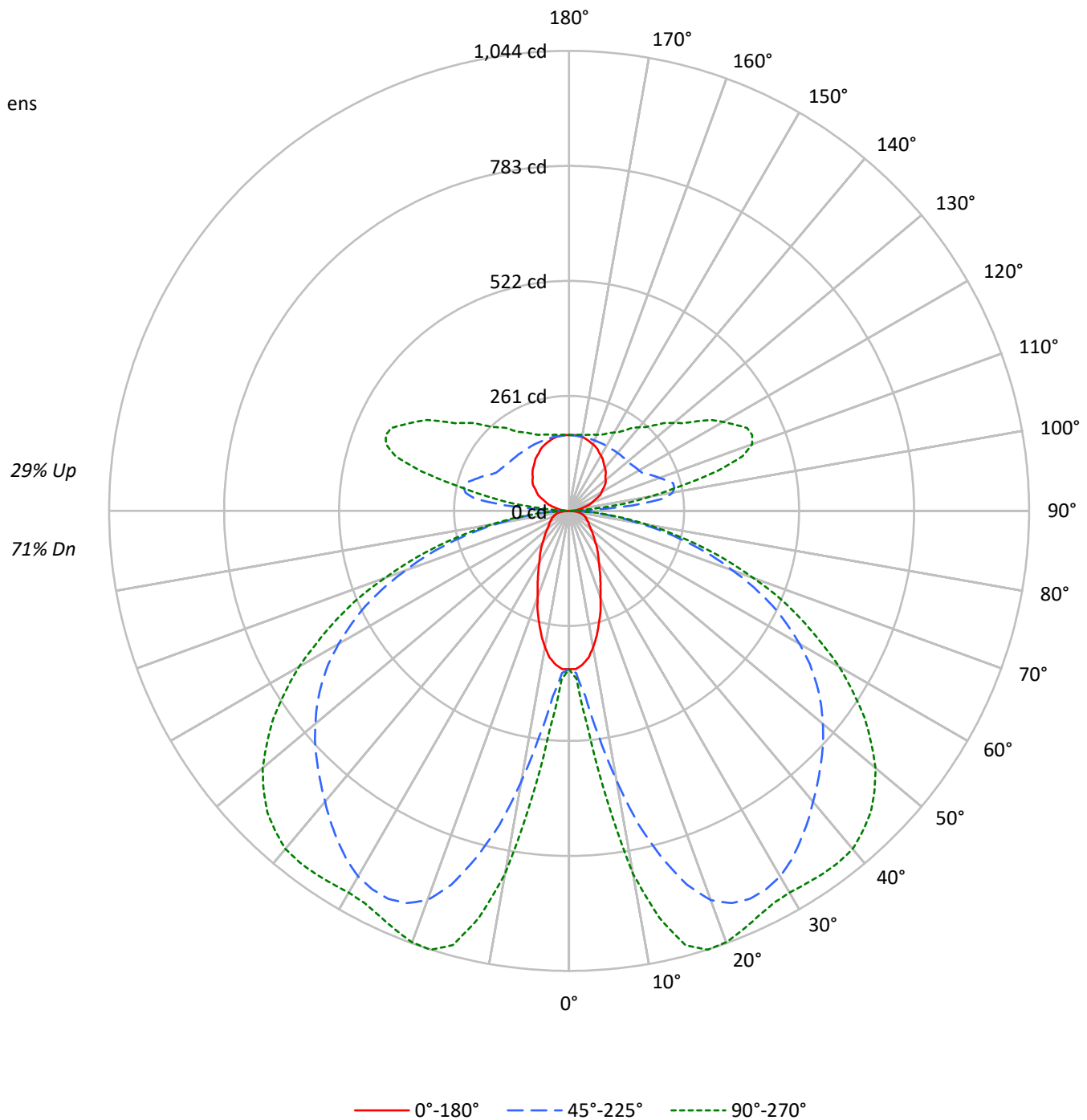
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3896.9 lumens
Efficiency: N/A
Efficacy: 86.6 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-Direct

Input Watts (W): 45
Input Voltage (V): NR
Input Current (Ain): 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	50	30	10	
RCR																								
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71	71	71	71	71	71	
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	58	58	58	58	58	58	
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	48	48	48	48	48	48	
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	39	39	39	39	39	39	
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	33	33	33	33	33	33	
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28	28	28	28	28	28	
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	24	24	24	24	24	24	
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	21	21	21	21	21	21	
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18	18	18	18	18	18	
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	16	16	16	16	16	16	
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	14	14	14	14	14	14	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2222	2222	2222
5°	2170	2567	2987
10°	1968	3742	4952
15°	1672	4887	5979
20°	1360	5663	6094
25°	1134	5924	5970
30°	956	5961	5959
35°	845	5860	6113
40°	736	5729	6273
45°	666	5633	6297
50°	611	5547	6193
55°	584	5421	5918
60°	598	5181	5484
65°	620	4816	4889
70°	659	4197	4130
75°	727	3419	3223
80°	791	2369	2172
85°	692	1254	1112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6297 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	1.2
10°-20°	205.9	5.3
20°-30°	360.2	9.2
30°-40°	463.7	11.9
40°-50°	517.9	13.3
50°-60°	496.1	12.7
60°-70°	393.1	10.1
70°-80°	231.2	5.9
80°-90°	64.9	1.7
90°-100°	84.0	2.2
100°-110°	220.9	5.7
110°-120°	229.0	5.9
120°-130°	183.7	4.7
130°-140°	144.2	3.7
140°-150°	110.6	2.8
150°-160°	79.7	2.0
160°-170°	48.8	1.3
170°-180°	16.5	0.4
0°-30°	612.6	15.7
0°-40°	1076.4	27.6
0°-60°	2090.4	53.6
0°-90°	2779.5	71.3
90°-120°	534.0	13.7
90°-150°	972.5	25.0
90°-180°	1117.0	28.7
0°-180°	3896.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	359	359	359	359	359	
5°	350	375	423	478	496	32
15°	262	484	815	989	1020	73
25°	168	549	971	1014	1015	77
35°	113	524	915	967	1005	71
45°	77	418	808	926	968	60
55°	55	266	686	797	819	51
65°	44	141	509	573	581	44
75°	32	87	280	307	308	34
85°	12	27	69	76	77	12
90°	1	3	9	4	4	2
95°	11	44	145	75	51	12
105°	40	60	244	371	346	42
115°	71	86	196	390	445	70
125°	98	110	178	301	355	87
135°	117	129	172	243	275	91
145°	136	145	170	207	223	85
155°	154	158	170	187	192	71
165°	166	168	170	177	179	47
175°	172	172	171	174	174	16
180°	172	172	172	172	172	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2	359.2
2.5°	359.2	359.2	361.5	362.7	365.0	366.1	368.4	370.8	377.7	378.8	381.2
5°	350.0	354.6	369.6	375.4	391.5	413.5	422.7	437.7	468.9	478.2	483.9
7.5°	336.1	346.5	383.5	392.7	433.1	490.9	515.1	547.5	597.1	621.4	641.0
10°	314.2	336.1	401.9	423.9	489.7	577.5	622.5	667.6	742.7	776.2	788.9
12.5°	289.9	325.7	421.6	451.6	546.3	674.5	728.8	778.5	863.9	909.1	916.0
15°	262.2	310.7	440.1	483.9	606.4	755.4	815.4	876.7	956.4	988.8	996.8
17.5°	237.9	299.1	457.4	503.6	652.6	828.1	889.4	940.2	1004.9	1026.9	1032.6
20°	207.9	280.7	468.9	529.0	701.1	881.3	940.2	979.5	1023.4	1037.3	1039.6
22.5°	186.0	261.0	475.9	538.2	733.4	913.7	963.3	994.5	1024.6	1029.2	1030.3
25°	167.5	239.1	474.7	548.6	761.1	933.3	971.4	994.5	1011.9	1014.2	1014.2
27.5°	150.2	214.8	470.1	550.9	781.9	937.9	968.0	984.1	992.2	996.8	996.8
30°	135.1	191.7	458.5	546.3	791.2	933.3	957.6	965.7	973.7	980.7	984.1
32.5°	123.6	169.8	441.2	537.1	792.3	921.8	939.1	943.7	955.3	971.4	977.2
35°	113.2	147.8	421.6	524.4	785.4	903.3	914.8	919.5	942.6	966.8	974.9
37.5°	102.8	131.7	396.2	502.4	775.0	881.3	889.4	897.5	933.3	962.2	971.4
40°	92.4	117.8	366.1	478.2	758.8	854.7	861.6	874.3	921.8	955.3	964.5
42.5°	84.3	106.3	333.8	452.8	738.0	824.7	835.1	853.5	907.9	943.7	954.1
45°	77.4	94.7	299.1	418.1	711.5	793.5	808.5	833.9	891.7	926.4	935.6
47.5°	70.5	86.6	263.3	382.3	682.6	762.3	781.9	810.8	869.7	903.3	911.4
50°	64.7	78.5	227.5	344.2	651.4	728.8	751.9	781.9	842.0	873.2	883.7
52.5°	60.1	71.6	194.0	306.1	615.6	694.2	720.7	751.9	808.5	838.5	845.5
55°	55.4	65.8	165.2	265.7	578.7	657.2	686.1	716.1	771.5	797.0	801.6
57.5°	53.1	61.2	140.9	227.5	539.4	615.6	648.0	675.7	727.6	747.3	751.9
60°	49.7	57.8	122.4	195.2	496.6	576.3	604.1	631.8	675.7	691.8	695.3
62.5°	46.2	55.4	108.6	164.0	452.8	530.1	557.9	583.3	620.2	631.8	636.4
65°	43.9	53.1	98.2	140.9	407.7	481.6	509.4	531.3	561.3	572.9	575.2
67.5°	41.6	50.8	90.1	121.3	362.7	433.1	453.9	474.7	497.8	509.4	510.5
70°	38.1	48.5	83.2	107.4	316.5	377.7	395.0	417.0	435.4	441.2	444.7
72.5°	35.8	45.0	78.5	97.0	269.1	324.6	340.7	353.4	369.6	375.4	375.4
75°	32.3	40.4	73.9	86.6	220.6	265.7	279.5	292.2	304.9	307.2	303.8
77.5°	28.9	35.8	63.5	72.8	172.1	210.2	221.8	228.7	239.1	241.4	242.6
80°	24.3	31.2	49.7	56.6	124.7	154.8	162.9	168.6	177.9	177.9	180.2
82.5°	18.5	24.3	35.8	40.4	84.3	106.3	113.2	116.7	122.4	122.4	122.4
85°	11.6	15.0	23.1	26.6	50.8	64.7	69.3	70.5	75.1	76.2	76.2
87.5°	5.8	8.1	15.0	16.2	26.6	33.5	33.5	35.8	35.8	34.6	33.5
90°	1.2	2.1	3.0	3.2	5.1	7.5	8.8	7.8	5.9	4.4	4.4
92.5°	4.6	12.5	20.3	22.3	31.4	43.5	49.5	43.4	31.1	21.9	21.1
95°	11.1	25.5	39.9	43.5	77.2	122.2	144.7	129.1	97.9	74.6	72.0
97.5°	19.2	31.9	44.6	47.7	104.0	179.0	216.5	206.7	187.0	172.2	167.2
100°	25.5	37.0	48.5	51.4	113.8	197.0	238.6	239.3	240.8	241.9	235.9
102.5°	30.8	41.6	52.3	55.0	118.3	202.7	244.9	257.4	282.5	301.4	296.2
105°	39.8	48.9	58.0	60.3	121.6	203.3	244.2	272.3	328.6	370.8	368.0
107.5°	49.0	57.5	66.0	68.1	122.2	194.3	230.3	269.6	348.0	406.9	407.6
110°	55.3	63.0	70.6	72.5	121.3	186.3	218.8	262.6	350.4	416.1	419.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	61.4	68.8	76.0	77.8	121.3	179.3	208.2	253.1	342.9	410.2	414.6
115°	70.7	77.5	84.2	85.9	122.4	171.2	195.6	238.9	325.3	390.2	396.3
117.5°	79.8	85.9	92.0	93.6	124.7	166.2	187.0	226.0	304.0	362.5	369.3
120°	85.2	90.9	96.6	98.1	126.6	164.5	183.5	219.1	290.4	344.0	350.6
122.5°	90.3	96.2	101.9	103.4	129.2	163.6	180.8	212.9	277.1	325.3	331.9
125°	98.3	103.6	109.0	110.3	132.8	162.9	177.9	205.2	259.8	300.7	306.7
127.5°	104.8	110.1	115.5	116.8	136.4	162.5	175.5	198.9	245.8	280.9	286.0
130°	108.3	114.0	119.7	121.2	139.0	162.7	174.6	195.4	237.1	268.3	273.0
132.5°	111.9	117.7	123.4	124.8	141.1	162.9	173.8	192.4	229.8	257.7	261.9
135°	117.2	122.4	127.7	129.0	143.5	162.8	172.4	188.0	219.3	242.7	246.3
137.5°	122.7	127.8	133.0	134.3	146.9	163.8	172.2	185.4	211.8	231.6	234.5
140°	127.1	131.9	136.7	137.9	149.1	163.9	171.3	182.7	205.6	222.7	225.5
142.5°	130.6	135.0	139.4	140.5	150.8	164.5	171.3	181.3	201.4	216.4	218.8
145°	135.9	139.8	143.6	144.6	153.2	164.5	170.2	178.3	194.7	207.1	208.8
147.5°	141.2	145.0	148.8	149.7	156.5	165.6	170.2	176.6	189.5	199.2	200.7
150°	144.7	148.1	151.5	152.4	158.3	166.2	170.2	175.6	186.5	194.7	195.9
152.5°	148.3	150.8	153.5	154.1	159.5	166.6	170.2	174.8	184.1	191.1	192.0
155°	153.6	155.5	157.5	157.9	162.0	167.5	170.2	173.9	181.3	186.8	187.4
157.5°	157.5	159.4	161.2	161.7	164.5	168.3	170.2	173.0	178.8	183.1	183.6
160°	160.2	161.7	163.1	163.5	165.7	168.7	170.2	172.6	177.6	181.3	181.5
162.5°	162.9	163.9	165.0	165.3	166.9	169.1	170.2	172.2	176.4	179.6	179.8
165°	165.8	166.7	167.7	167.9	168.7	169.7	170.2	171.6	174.6	176.9	177.1
167.5°	168.4	168.9	169.3	169.5	170.1	170.9	171.3	172.3	174.3	175.7	175.8
170°	170.2	170.6	171.1	171.2	171.2	171.3	171.3	172.3	174.3	175.7	175.7
172.5°	171.1	171.2	171.3	171.3	171.3	171.3	171.3	172.1	173.6	174.8	174.7
175°	172.4	172.4	172.4	172.4	172.0	171.6	171.3	171.8	172.8	173.6	173.6
177.5°	172.4	172.4	172.4	172.4	172.1	171.7	171.6	171.9	172.7	173.3	173.2
180°	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4	172.4



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	359.2	359.2
2.5°	383.5	381.2
5°	493.2	495.5
7.5°	664.1	663.0
10°	825.8	836.2
12.5°	943.7	946.0
15°	1015.3	1019.9
17.5°	1043.0	1044.2
20°	1044.2	1041.9
22.5°	1031.5	1029.2
25°	1016.5	1015.3
27.5°	1002.6	1003.8
30°	996.8	1000.3
32.5°	996.8	1002.6
35°	999.2	1004.9
37.5°	998.0	1004.9
40°	993.4	1001.5
42.5°	980.7	986.4
45°	961.0	968.0
47.5°	935.6	940.2
50°	903.3	907.9
52.5°	862.8	863.9
55°	814.3	818.9
57.5°	762.3	763.5
60°	704.6	708.0
62.5°	643.3	643.3
65°	578.7	581.0
67.5°	511.7	517.4
70°	443.5	444.7
72.5°	376.5	376.5
75°	307.2	308.4
77.5°	241.4	241.4
80°	179.0	180.2
82.5°	123.6	125.9
85°	77.4	77.4
87.5°	35.8	32.3
90°	4.4	4.4
92.5°	17.6	14.1
95°	61.4	50.8
97.5°	147.1	126.9
100°	211.9	187.9
102.5°	275.7	255.1
105°	357.0	345.9
107.5°	410.2	412.9
110°	430.5	442.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	432.3	450.0
115°	420.8	445.4
117.5°	396.6	423.7
120°	377.0	403.4
122.5°	357.9	383.9
125°	330.6	354.7
127.5°	306.2	326.5
130°	291.8	310.5
132.5°	278.7	295.4
135°	260.7	275.2
137.5°	246.4	258.2
140°	236.5	247.6
142.5°	228.3	237.9
145°	216.1	223.3
147.5°	206.7	212.6
150°	200.7	205.6
152.5°	195.7	199.4
155°	189.8	192.3
157.5°	185.3	187.0
160°	182.5	183.5
162.5°	180.7	181.6
165°	178.1	179.1
167.5°	176.3	176.6
170°	175.7	175.7
172.5°	174.3	174.0
175°	173.6	173.6
177.5°	172.8	172.4
180°	172.4	172.4



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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	5.51	6.67	6.26	7.44	8.36	18.68	19.83	19.42	20.60	21.53
	3H	6.24	7.28	7.00	8.06	9.02	20.54	21.58	21.29	22.36	23.31
	4H	6.55	7.54	7.32	8.32	9.29	21.19	22.18	21.96	22.96	23.93
	6H	6.82	7.73	7.60	8.53	9.51	21.63	22.54	22.42	23.34	24.32
	8H	6.90	7.76	7.69	8.58	9.57	21.76	22.63	22.55	23.44	24.43
	12H	6.92	7.75	7.73	8.56	9.58	21.84	22.66	22.64	23.47	24.49
4H	2H	12.76	13.74	13.53	14.53	15.50	18.99	19.97	19.76	20.76	21.73
	3H	14.35	15.18	15.14	16.00	16.99	21.06	21.88	21.85	22.71	23.69
	4H	14.46	15.21	15.26	16.03	17.05	21.83	22.59	22.64	23.41	24.42
	6H	14.49	15.14	15.31	15.99	17.01	22.38	23.04	23.21	23.89	24.90
	8H	14.47	15.08	15.30	15.93	16.96	22.55	23.16	23.38	24.01	25.04
	12H	14.44	15.00	15.29	15.86	16.90	22.66	23.21	23.50	24.07	25.11
8H	4H	15.93	16.54	16.75	17.38	18.41	21.92	22.53	22.74	23.37	24.41
	6H	16.18	16.69	17.04	17.57	18.61	22.56	23.07	23.41	23.95	24.98
	8H	16.20	16.66	17.07	17.54	18.58	22.78	23.23	23.64	24.11	25.16
	12H	16.19	16.59	17.05	17.46	18.56	22.93	23.33	23.80	24.20	25.31
12H	4H	16.08	16.64	16.93	17.50	18.54	21.89	22.44	22.73	23.30	24.34
	6H	16.44	16.90	17.31	17.78	18.82	22.54	23.00	23.41	23.88	24.93
	8H	16.53	16.93	17.40	17.80	18.90	22.79	23.19	23.65	24.06	25.16