

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: P936341

Luminaire Tested: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-6-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936341
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-92765-1D-UNV-STD-W-6-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

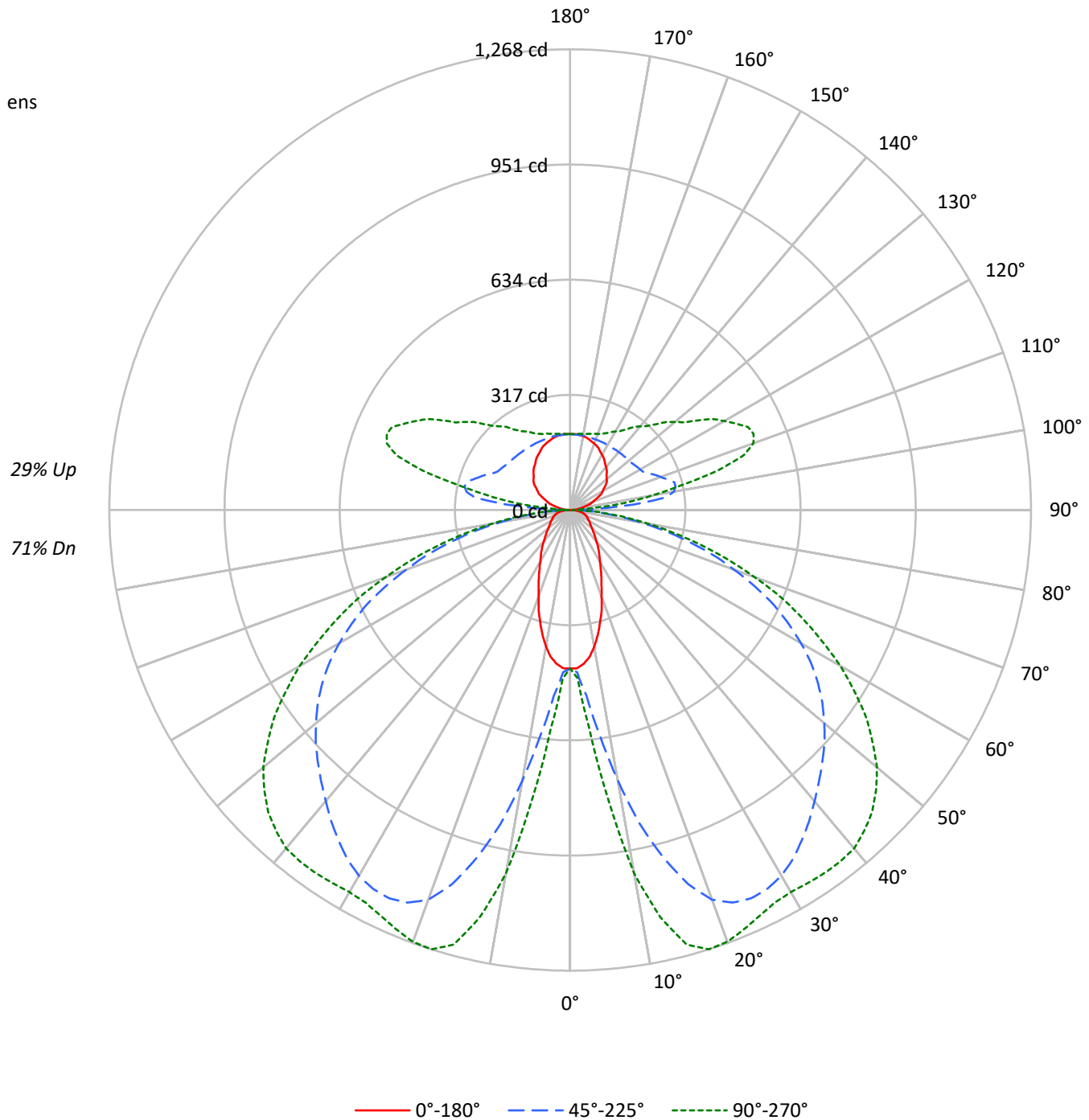
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4730.5 lumens
Efficiency: N/A
Efficacy: 105.1 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 (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
RCR																				
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71		
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	58		
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	48		
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	39		
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	33		
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28		
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	24		
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	21		
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18		
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	16		
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	14		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2697	2697	2697
5°	2634	3117	3626
10°	2389	4542	6011
15°	2029	5933	7259
20°	1652	6874	7398
25°	1377	7192	7247
30°	1160	7235	7234
35°	1026	7113	7421
40°	894	6954	7614
45°	808	6838	7644
50°	741	6733	7517
55°	709	6580	7184
60°	725	6288	6658
65°	753	5846	5934
70°	801	5095	5014
75°	884	4150	3912
80°	957	2875	2636
85°	835	1522	1349

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7644 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	1.2
10°-20°	250.0	5.3
20°-30°	437.3	9.2
30°-40°	562.9	11.9
40°-50°	628.7	13.3
50°-60°	602.2	12.7
60°-70°	477.2	10.1
70°-80°	280.6	5.9
80°-90°	78.7	1.7
90°-100°	102.0	2.2
100°-110°	268.1	5.7
110°-120°	278.0	5.9
120°-130°	223.0	4.7
130°-140°	175.0	3.7
140°-150°	134.3	2.8
150°-160°	96.7	2.0
160°-170°	59.2	1.3
170°-180°	20.0	0.4
0°-30°	743.7	15.7
0°-40°	1306.6	27.6
0°-60°	2537.5	53.6
0°-90°	3374.1	71.3
90°-120°	648.1	13.7
90°-150°	1180.5	25.0
90°-180°	1356.0	28.7
0°-180°	4730.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	436	436	436	436	436	
5°	425	456	513	580	602	39
15°	318	588	990	1200	1238	89
25°	203	666	1179	1231	1232	94
35°	137	636	1110	1174	1220	86
45°	94	508	981	1124	1175	73
55°	67	322	833	967	994	61
65°	53	171	618	695	705	53
75°	39	105	339	373	374	41
85°	14	32	84	92	94	15
90°	1	4	11	5	5	2
95°	14	53	176	91	62	15
105°	48	73	296	450	420	51
115°	86	104	237	474	541	85
125°	119	134	216	365	430	106
135°	142	157	209	295	334	110
145°	165	176	207	251	271	103
155°	186	192	207	227	233	86
165°	201	204	207	215	217	57
175°	209	209	208	211	211	20
180°	209	209	209	209	209	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0	436.0
2.5°	436.0	436.0	438.8	440.2	443.1	444.5	447.3	450.1	458.5	459.9	462.7
5°	424.8	430.4	448.7	455.7	475.3	501.9	513.2	531.4	569.2	580.5	587.5
7.5°	408.0	420.6	465.5	476.7	525.8	595.9	625.3	664.6	724.9	754.3	778.1
10°	381.4	408.0	487.9	514.6	594.5	701.0	755.7	810.4	901.5	942.2	957.6
12.5°	351.9	395.4	511.8	548.2	663.2	818.8	884.7	945.0	1048.7	1103.5	1111.9
15°	318.3	377.2	534.2	587.5	736.1	916.9	989.9	1064.3	1161.0	1200.3	1210.1
17.5°	288.8	363.1	555.2	611.3	792.2	1005.3	1079.7	1141.4	1219.9	1246.5	1253.5
20°	252.4	340.7	569.2	642.1	851.0	1069.9	1141.4	1189.0	1242.3	1259.1	1261.9
22.5°	225.7	316.9	577.6	653.4	890.3	1109.1	1169.4	1207.3	1243.7	1249.3	1250.7
25°	203.3	290.2	576.2	666.0	924.0	1133.0	1179.2	1207.3	1228.3	1231.1	1231.1
27.5°	182.3	260.8	570.6	668.8	949.2	1138.6	1175.0	1194.6	1204.5	1210.1	1210.1
30°	164.0	232.7	556.6	663.2	960.4	1133.0	1162.4	1172.2	1182.0	1190.4	1194.6
32.5°	150.0	206.1	535.6	652.0	961.8	1118.9	1140.0	1145.6	1159.6	1179.2	1186.2
35°	137.4	179.5	511.8	636.5	953.4	1096.5	1110.5	1116.1	1144.2	1173.6	1183.4
37.5°	124.8	159.8	480.9	609.9	940.8	1069.9	1079.7	1089.5	1133.0	1168.0	1179.2
40°	112.2	143.0	444.5	580.5	921.2	1037.5	1045.9	1061.4	1118.9	1159.6	1170.8
42.5°	102.4	129.0	405.2	549.6	895.9	1001.1	1013.7	1036.1	1102.1	1145.6	1158.2
45°	93.9	115.0	363.1	507.5	863.7	963.2	981.4	1012.3	1082.5	1124.5	1135.8
47.5°	85.5	105.2	319.7	464.1	828.6	925.4	949.2	984.2	1055.8	1096.5	1106.3
50°	78.5	95.3	276.2	417.8	790.8	884.7	912.7	949.2	1022.1	1060.0	1072.7
52.5°	72.9	86.9	235.5	371.5	747.3	842.6	874.9	912.7	981.4	1017.9	1026.3
55°	67.3	79.9	200.5	322.5	702.4	797.8	832.8	869.3	936.6	967.4	973.0
57.5°	64.5	74.3	171.1	276.2	654.8	747.3	786.6	820.2	883.3	907.1	912.7
60°	60.3	70.1	148.6	236.9	602.9	699.6	733.3	766.9	820.2	839.8	844.0
62.5°	56.1	67.3	131.8	199.1	549.6	643.5	677.2	708.0	752.9	766.9	772.5
65°	53.3	64.5	119.2	171.1	494.9	584.7	618.3	644.9	681.4	695.4	698.2
67.5°	50.5	61.7	109.4	147.2	440.2	525.8	551.0	576.2	604.3	618.3	619.7
70°	46.3	58.9	100.9	130.4	384.2	458.5	479.5	506.1	528.6	535.6	539.8
72.5°	43.5	54.7	95.3	117.8	326.7	394.0	413.6	429.0	448.7	455.7	455.7
75°	39.3	49.1	89.7	105.2	267.8	322.5	339.3	354.7	370.1	372.9	368.7
77.5°	35.1	43.5	77.1	88.3	208.9	255.2	269.2	277.6	290.2	293.0	294.4
80°	29.4	37.9	60.3	68.7	151.4	187.9	197.7	204.7	215.9	215.9	218.7
82.5°	22.4	29.4	43.5	49.1	102.4	129.0	137.4	141.6	148.6	148.6	148.6
85°	14.0	18.2	28.0	32.2	61.7	78.5	84.1	85.5	91.1	92.5	92.5
87.5°	7.0	9.8	18.2	19.6	32.2	40.7	40.7	43.5	43.5	42.1	40.7
90°	1.4	2.5	3.6	3.9	6.2	9.2	10.7	9.4	7.1	5.3	5.3
92.5°	5.6	15.1	24.7	27.1	38.1	52.8	60.1	52.6	37.8	26.6	25.6
95°	13.5	30.9	48.4	52.8	93.8	148.3	175.6	156.8	118.9	90.6	87.4
97.5°	23.3	38.7	54.1	58.0	126.3	217.3	262.8	250.9	227.0	209.1	203.0
100°	30.9	44.9	58.9	62.3	138.1	239.2	289.7	290.5	292.3	293.6	286.3
102.5°	37.4	50.5	63.5	66.7	143.6	246.0	297.2	312.5	342.9	365.8	359.6
105°	48.3	59.4	70.4	73.2	147.6	246.8	296.4	330.5	398.8	450.1	446.7
107.5°	59.5	69.8	80.1	82.7	148.3	235.8	279.6	327.2	422.5	493.9	494.7
110°	67.1	76.5	85.7	88.0	147.2	226.1	265.5	318.8	425.3	505.1	508.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	74.6	83.5	92.3	94.5	147.2	217.6	252.7	307.2	416.2	497.9	503.2
115°	85.8	94.0	102.2	104.2	148.6	207.8	237.4	289.9	394.9	473.6	481.1
117.5°	96.9	104.3	111.7	113.6	151.3	201.7	226.9	274.3	369.0	440.1	448.3
120°	103.4	110.4	117.3	119.1	153.7	199.7	222.7	266.0	352.6	417.5	425.6
122.5°	109.6	116.7	123.8	125.5	156.8	198.6	219.5	258.4	336.4	394.9	402.9
125°	119.4	125.8	132.3	133.8	161.2	197.8	216.0	249.1	315.4	365.0	372.3
127.5°	127.2	133.7	140.2	141.8	165.5	197.2	213.0	241.4	298.4	341.0	347.1
130°	131.4	138.4	145.3	147.1	168.7	197.5	211.9	237.2	287.8	325.7	331.4
132.5°	135.8	142.8	149.7	151.5	171.3	197.8	211.0	233.6	278.9	312.8	317.9
135°	142.3	148.6	155.0	156.6	174.1	197.6	209.3	228.3	266.2	294.6	299.0
137.5°	148.9	155.2	161.4	163.0	178.3	198.8	209.0	225.1	257.1	281.2	284.7
140°	154.3	160.1	165.9	167.4	181.0	199.0	208.0	221.8	249.6	270.3	273.7
142.5°	158.5	163.9	169.3	170.6	183.0	199.7	208.0	220.1	244.5	262.7	265.6
145°	165.0	169.6	174.3	175.5	185.9	199.7	206.6	216.5	236.4	251.3	253.5
147.5°	171.4	176.0	180.6	181.7	190.0	201.1	206.6	214.4	230.0	241.8	243.6
150°	175.6	179.7	184.0	185.0	192.2	201.8	206.6	213.2	226.4	236.3	237.8
152.5°	180.0	183.1	186.3	187.0	193.6	202.3	206.6	212.2	223.5	232.0	233.1
155°	186.5	188.8	191.1	191.7	196.7	203.3	206.6	211.1	220.0	226.8	227.5
157.5°	191.2	193.5	195.7	196.3	199.7	204.3	206.6	210.0	217.0	222.3	222.8
160°	194.5	196.3	198.0	198.4	201.1	204.8	206.6	209.6	215.5	220.0	220.3
162.5°	197.7	199.0	200.3	200.7	202.6	205.3	206.6	209.1	214.1	218.0	218.3
165°	201.2	202.4	203.6	203.9	204.8	206.0	206.6	208.3	212.0	214.7	215.0
167.5°	204.4	205.0	205.5	205.7	206.5	207.5	208.0	209.2	211.5	213.3	213.4
170°	206.6	207.1	207.7	207.8	207.9	208.0	208.0	209.2	211.5	213.3	213.3
172.5°	207.7	207.8	208.0	208.0	208.0	208.0	208.0	208.9	210.8	212.2	212.1
175°	209.3	209.3	209.3	209.3	208.8	208.3	208.0	208.5	209.7	210.7	210.7
177.5°	209.3	209.3	209.3	209.3	208.9	208.4	208.3	208.7	209.7	210.4	210.3
180°	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3	209.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	436.0	436.0
2.5°	465.5	462.7
5°	598.7	601.5
7.5°	806.2	804.8
10°	1002.5	1015.1
12.5°	1145.6	1148.4
15°	1232.5	1238.1
17.5°	1266.2	1267.6
20°	1267.6	1264.8
22.5°	1252.1	1249.3
25°	1233.9	1232.5
27.5°	1217.1	1218.5
30°	1210.1	1214.3
32.5°	1210.1	1217.1
35°	1212.9	1219.9
37.5°	1211.5	1219.9
40°	1205.9	1215.7
42.5°	1190.4	1197.5
45°	1166.6	1175.0
47.5°	1135.8	1141.4
50°	1096.5	1102.1
52.5°	1047.3	1048.7
55°	988.5	994.1
57.5°	925.4	926.8
60°	855.3	859.5
62.5°	780.9	780.9
65°	702.4	705.2
67.5°	621.1	628.1
70°	538.4	539.8
72.5°	457.1	457.1
75°	372.9	374.3
77.5°	293.0	293.0
80°	217.3	218.7
82.5°	150.0	152.8
85°	93.9	93.9
87.5°	43.5	39.3
90°	5.3	5.3
92.5°	21.3	17.1
95°	74.5	61.7
97.5°	178.5	154.0
100°	257.2	228.1
102.5°	334.6	309.7
105°	433.3	419.9
107.5°	497.9	501.2
110°	522.6	536.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	524.7	546.2
115°	510.8	540.6
117.5°	481.4	514.4
120°	457.6	489.7
122.5°	434.5	466.0
125°	401.4	430.5
127.5°	371.7	396.3
130°	354.2	376.9
132.5°	338.3	358.6
135°	316.5	334.1
137.5°	299.1	313.4
140°	287.0	300.5
142.5°	277.1	288.7
145°	262.3	271.1
147.5°	250.9	258.1
150°	243.7	249.6
152.5°	237.5	242.0
155°	230.4	233.4
157.5°	224.9	226.9
160°	221.5	222.7
162.5°	219.4	220.5
165°	216.2	217.4
167.5°	214.0	214.4
170°	213.3	213.3
172.5°	211.6	211.2
175°	210.7	210.7
177.5°	209.7	209.3
180°	209.3	209.3



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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	6.19	7.34	6.93	8.11	9.04	19.35	20.51	20.09	21.28	22.20
	3H	6.92	7.96	7.67	8.74	9.69	21.21	22.25	21.96	23.03	23.99
	4H	7.23	8.21	8.00	9.00	9.97	21.86	22.85	22.64	23.64	24.60
	6H	7.49	8.41	8.28	9.20	10.19	22.31	23.22	23.09	24.01	25.00
	8H	7.57	8.44	8.37	9.26	10.24	22.43	23.30	23.23	24.12	25.10
	12H	7.60	8.43	8.40	9.24	10.25	22.51	23.34	23.31	24.15	25.16
4H	2H	13.43	14.41	14.21	15.20	16.17	19.66	20.65	20.44	21.44	22.40
	3H	15.02	15.85	15.81	16.67	17.66	21.73	22.56	22.52	23.38	24.36
	4H	15.13	15.89	15.94	16.71	17.72	22.51	23.26	23.31	24.08	25.09
	6H	15.16	15.82	15.98	16.66	17.68	23.06	23.71	23.88	24.56	25.58
	8H	15.15	15.76	15.97	16.60	17.63	23.23	23.84	24.05	24.68	25.71
	12H	15.12	15.67	15.96	16.53	17.57	23.33	23.88	24.18	24.75	25.78
8H	4H	16.60	17.21	17.42	18.05	19.09	22.59	23.20	23.42	24.05	25.08
	6H	16.85	17.36	17.71	18.25	19.28	23.23	23.74	24.08	24.62	25.66
	8H	16.88	17.33	17.74	18.21	19.26	23.45	23.91	24.32	24.78	25.83
	12H	16.86	17.26	17.73	18.13	19.23	23.61	24.01	24.48	24.88	25.98
12H	4H	16.76	17.31	17.60	18.17	19.21	22.56	23.11	23.40	23.97	25.01
	6H	17.12	17.57	17.98	18.45	19.50	23.22	23.67	24.08	24.55	25.60
	8H	17.20	17.60	18.07	18.47	19.57	23.46	23.86	24.33	24.73	25.83