

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: P936371

Luminaire Tested: SQ4-FB-025U-075D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936371
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-935-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

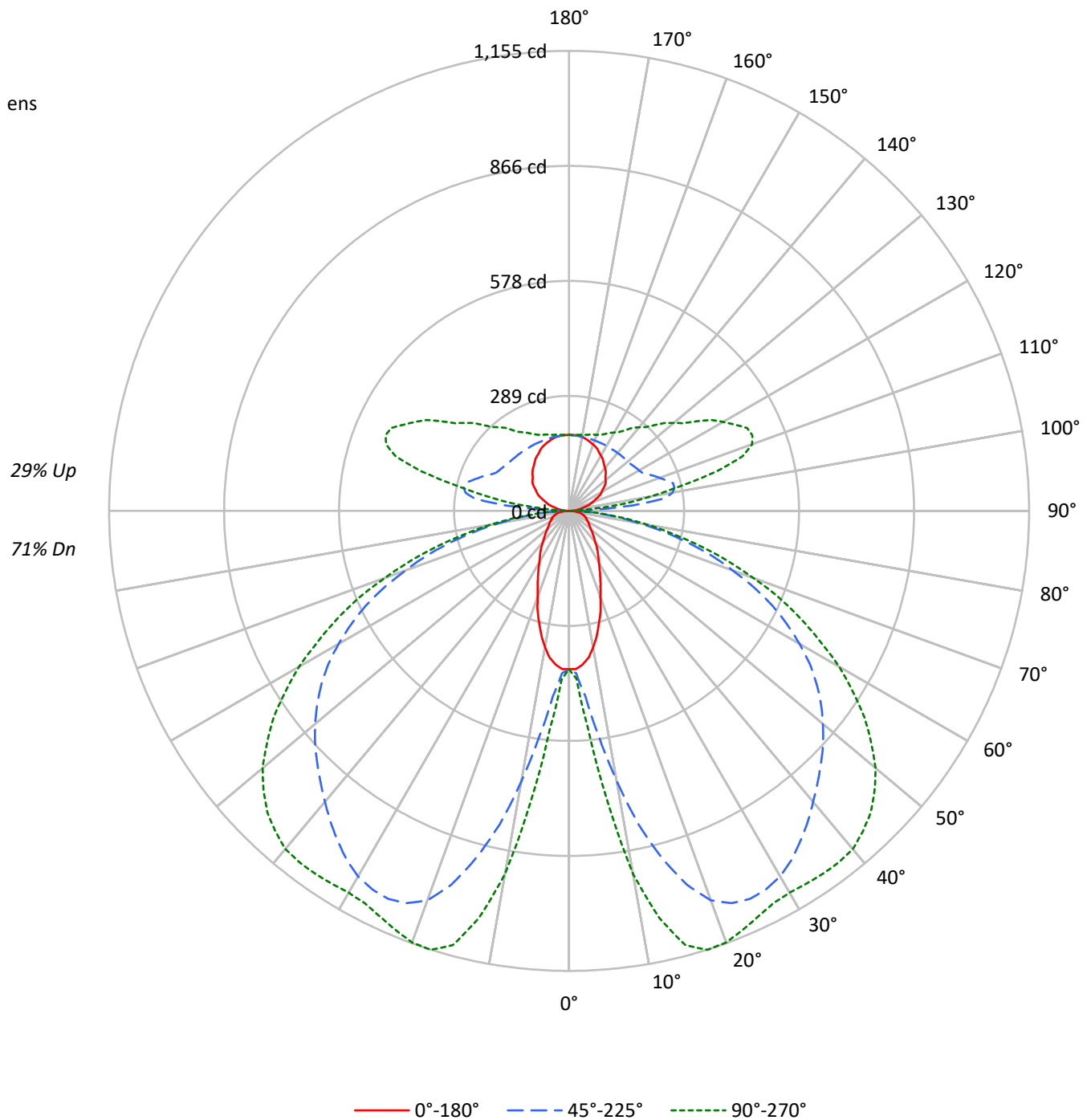
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4311.9 lumens
Efficiency: N/A
Efficacy: 95.8 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	0
RCR																					
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	66	64	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	57	54	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	50	46	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	44	40	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	39	34	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	35	30	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	32	27	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	29	24	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	26	22	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	24	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2459	2459	2459
5°	2401	2841	3305
10°	2177	4140	5479
15°	1850	5408	6617
20°	1505	6266	6743
25°	1255	6556	6606
30°	1058	6595	6593
35°	935	6484	6764
40°	814	6339	6940
45°	737	6233	6967
50°	676	6137	6852
55°	646	5998	6548
60°	661	5732	6068
65°	687	5329	5409
70°	730	4644	4570
75°	806	3783	3566
80°	872	2621	2403
85°	763	1388	1230

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6967 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.4	1.2
10°-20°	227.9	5.3
20°-30°	398.6	9.2
30°-40°	513.1	11.9
40°-50°	573.1	13.3
50°-60°	548.9	12.7
60°-70°	435.0	10.1
70°-80°	255.8	5.9
80°-90°	71.8	1.7
90°-100°	93.0	2.2
100°-110°	244.4	5.7
110°-120°	253.4	5.9
120°-130°	203.3	4.7
130°-140°	159.5	3.7
140°-150°	122.4	2.8
150°-160°	88.2	2.0
160°-170°	53.9	1.3
170°-180°	18.2	0.4
0°-30°	677.9	15.7
0°-40°	1191.0	27.6
0°-60°	2313.0	53.6
0°-90°	3075.5	71.3
90°-120°	590.8	13.7
90°-150°	1076.0	25.0
90°-180°	1236.0	28.7
0°-180°	4311.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	398	398	398	398	398	
5°	387	415	468	529	548	36
15°	290	536	902	1094	1129	81
25°	185	607	1075	1122	1123	85
35°	125	580	1012	1070	1112	78
45°	86	463	895	1025	1071	66
55°	61	294	759	882	906	56
65°	49	156	564	634	643	48
75°	36	96	309	340	341	37
85°	13	29	77	84	86	14
90°	1	4	10	5	5	2
95°	12	48	160	83	56	14
105°	44	67	270	410	383	47
115°	78	95	216	432	493	77
125°	109	122	197	333	392	97
135°	130	143	191	269	304	100
145°	150	160	188	229	247	94
155°	170	175	188	207	213	78
165°	183	186	188	196	198	52
175°	191	191	190	192	192	18
180°	191	191	191	191	191	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5	397.5
2.5°	397.5	397.5	400.0	401.3	403.8	405.1	407.7	410.2	417.9	419.2	421.7
5°	387.2	392.3	409.0	415.4	433.2	457.5	467.7	484.4	518.9	529.1	535.5
7.5°	371.9	383.4	424.3	434.5	479.2	543.2	570.0	605.8	660.7	687.6	709.3
10°	347.6	371.9	444.7	469.0	541.9	639.0	688.8	738.7	821.8	858.8	872.9
12.5°	320.8	360.4	466.5	499.7	604.5	746.4	806.4	861.4	955.9	1005.9	1013.5
15°	290.1	343.8	486.9	535.5	670.9	835.8	902.3	970.1	1058.3	1094.1	1103.0
17.5°	263.3	331.0	506.1	557.2	722.1	916.3	984.1	1040.4	1111.9	1136.2	1142.6
20°	230.0	310.6	518.9	585.3	775.7	975.2	1040.4	1083.8	1132.4	1147.7	1150.3
22.5°	205.8	288.8	526.5	595.5	811.5	1011.0	1065.9	1100.4	1133.7	1138.8	1140.1
25°	185.3	264.5	525.3	607.0	842.2	1032.7	1074.9	1100.4	1119.6	1122.2	1122.2
27.5°	166.1	237.7	520.1	609.6	865.2	1037.8	1071.0	1088.9	1097.9	1103.0	1103.0
30°	149.5	212.1	507.4	604.5	875.4	1032.7	1059.5	1068.5	1077.4	1085.1	1088.9
32.5°	136.7	187.9	488.2	594.3	876.7	1019.9	1039.1	1044.2	1057.0	1074.9	1081.3
35°	125.2	163.6	466.5	580.2	869.0	999.5	1012.3	1017.4	1042.9	1069.8	1078.7
37.5°	113.7	145.7	438.4	555.9	857.5	975.2	984.1	993.1	1032.7	1064.7	1074.9
40°	102.2	130.4	405.1	529.1	839.6	945.7	953.4	967.4	1019.9	1057.0	1067.2
42.5°	93.3	117.6	369.3	501.0	816.6	912.5	924.0	944.4	1004.6	1044.2	1055.7
45°	85.6	104.8	331.0	462.6	787.2	878.0	894.6	922.7	986.7	1025.0	1035.3
47.5°	78.0	95.8	291.4	423.0	755.3	843.5	865.2	897.2	962.3	999.5	1008.4
50°	71.6	86.9	251.8	380.8	720.8	806.4	832.0	865.2	931.7	966.2	977.8
52.5°	66.5	79.2	214.7	338.7	681.2	768.1	797.5	832.0	894.6	927.8	935.5
55°	61.3	72.8	182.8	293.9	640.3	727.2	759.1	792.4	853.7	881.8	886.9
57.5°	58.8	67.7	155.9	251.8	596.8	681.2	717.0	747.6	805.1	826.9	832.0
60°	55.0	63.9	135.5	216.0	549.5	637.7	668.4	699.1	747.6	765.5	769.4
62.5°	51.1	61.3	120.1	181.5	501.0	586.6	617.3	645.4	686.3	699.1	704.2
65°	48.6	58.8	108.6	155.9	451.1	532.9	563.6	587.9	621.1	633.9	636.4
67.5°	46.0	56.2	99.7	134.2	401.3	479.2	502.3	525.3	550.8	563.6	564.9
70°	42.2	53.7	92.0	118.9	350.2	417.9	437.1	461.4	481.8	488.2	492.0
72.5°	39.6	49.8	86.9	107.4	297.8	359.1	377.0	391.1	409.0	415.4	415.4
75°	35.8	44.7	81.8	95.8	244.1	293.9	309.3	323.3	337.4	339.9	336.1
77.5°	32.0	39.6	70.3	80.5	190.4	232.6	245.4	253.0	264.5	267.1	268.4
80°	26.8	34.5	55.0	62.6	138.0	171.3	180.2	186.6	196.8	196.8	199.4
82.5°	20.4	26.8	39.6	44.7	93.3	117.6	125.2	129.1	135.5	135.5	135.5
85°	12.8	16.6	25.6	29.4	56.2	71.6	76.7	78.0	83.1	84.3	84.3
87.5°	6.4	8.9	16.6	17.9	29.4	37.1	37.1	39.6	39.6	38.3	37.1
90°	1.3	2.3	3.3	3.6	5.6	8.3	9.7	8.6	6.5	4.9	4.9
92.5°	5.1	13.8	22.5	24.7	34.8	48.1	54.8	48.0	34.4	24.3	23.3
95°	12.3	28.2	44.1	48.1	85.5	135.2	160.1	142.9	108.4	82.6	79.7
97.5°	21.2	35.3	49.3	52.8	115.1	198.1	239.6	228.7	207.0	190.6	185.1
100°	28.2	40.9	53.7	56.8	125.9	218.0	264.0	264.8	266.4	267.6	261.0
102.5°	34.1	46.0	57.9	60.8	130.9	224.2	270.9	284.8	312.6	333.5	327.8
105°	44.0	54.1	64.2	66.7	134.5	224.9	270.2	301.3	363.5	410.2	407.2
107.5°	54.3	63.6	73.0	75.4	135.2	215.0	254.8	298.3	385.1	450.2	451.0
110°	61.2	69.7	78.1	80.3	134.2	206.1	242.1	290.6	387.7	460.4	463.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	68.0	76.1	84.1	86.1	134.2	198.3	230.4	280.1	379.4	453.9	458.7
115°	78.2	85.7	93.1	95.0	135.5	189.4	216.4	264.3	360.0	431.7	438.5
117.5°	88.4	95.1	101.8	103.5	137.9	183.9	206.9	250.1	336.4	401.1	408.6
120°	94.2	100.6	106.9	108.5	140.1	182.1	203.0	242.5	321.4	380.6	387.9
122.5°	99.9	106.4	112.8	114.4	143.0	181.0	200.0	235.6	306.6	360.0	367.2
125°	108.8	114.7	120.6	122.0	147.0	180.3	196.9	227.1	287.5	332.7	339.4
127.5°	116.0	121.8	127.8	129.2	150.9	179.8	194.2	220.1	272.0	310.8	316.4
130°	119.8	126.2	132.5	134.1	153.8	180.0	193.1	216.2	262.3	296.9	302.1
132.5°	123.8	130.2	136.5	138.1	156.2	180.3	192.3	212.9	254.2	285.2	289.8
135°	129.7	135.5	141.3	142.7	158.7	180.1	190.8	208.1	242.6	268.6	272.6
137.5°	135.7	141.4	147.1	148.6	162.6	181.2	190.5	205.2	234.4	256.3	259.5
140°	140.7	145.9	151.2	152.6	164.9	181.4	189.6	202.2	227.5	246.4	249.5
142.5°	144.5	149.4	154.3	155.5	166.8	182.0	189.6	200.6	222.9	239.5	242.1
145°	150.4	154.6	158.9	160.0	169.5	182.0	188.3	197.3	215.5	229.1	231.1
147.5°	156.3	160.4	164.6	165.6	173.2	183.3	188.3	195.4	209.7	220.4	222.0
150°	160.1	163.8	167.7	168.6	175.2	183.9	188.3	194.3	206.4	215.4	216.7
152.5°	164.1	166.9	169.8	170.5	176.4	184.4	188.3	193.4	203.7	211.5	212.5
155°	170.0	172.1	174.2	174.7	179.3	185.3	188.3	192.4	200.6	206.7	207.4
157.5°	174.3	176.4	178.4	178.9	182.1	186.2	188.3	191.4	197.8	202.6	203.1
160°	177.3	178.9	180.5	180.9	183.4	186.7	188.3	191.0	196.5	200.6	200.8
162.5°	180.2	181.4	182.6	182.9	184.7	187.1	188.3	190.6	195.2	198.7	198.9
165°	183.4	184.5	185.6	185.8	186.7	187.8	188.3	189.9	193.2	195.7	196.0
167.5°	186.3	186.8	187.4	187.5	188.2	189.1	189.6	190.7	192.8	194.4	194.5
170°	188.3	188.8	189.3	189.4	189.5	189.6	189.6	190.7	192.8	194.4	194.4
172.5°	189.3	189.4	189.6	189.6	189.6	189.6	189.6	190.4	192.1	193.4	193.3
175°	190.8	190.8	190.8	190.8	190.3	189.8	189.6	190.1	191.2	192.0	192.0
177.5°	190.8	190.8	190.8	190.8	190.4	190.0	189.8	190.3	191.1	191.8	191.7
180°	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8	190.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	397.5	397.5
2.5°	424.3	421.7
5°	545.7	548.3
7.5°	734.8	733.6
10°	913.8	925.3
12.5°	1044.2	1046.8
15°	1123.4	1128.6
17.5°	1154.1	1155.4
20°	1155.4	1152.8
22.5°	1141.3	1138.8
25°	1124.7	1123.4
27.5°	1109.4	1110.7
30°	1103.0	1106.8
32.5°	1103.0	1109.4
35°	1105.6	1111.9
37.5°	1104.3	1111.9
40°	1099.2	1108.1
42.5°	1085.1	1091.5
45°	1063.4	1071.0
47.5°	1035.3	1040.4
50°	999.5	1004.6
52.5°	954.7	955.9
55°	901.0	906.1
57.5°	843.5	844.8
60°	779.6	783.4
62.5°	711.8	711.8
65°	640.3	642.8
67.5°	566.2	572.5
70°	490.8	492.0
72.5°	416.6	416.6
75°	339.9	341.2
77.5°	267.1	267.1
80°	198.1	199.4
82.5°	136.7	139.3
85°	85.6	85.6
87.5°	39.6	35.8
90°	4.9	4.9
92.5°	19.4	15.6
95°	67.9	56.2
97.5°	162.7	140.4
100°	234.5	207.9
102.5°	305.0	282.3
105°	395.0	382.7
107.5°	453.9	456.8
110°	476.4	489.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	478.3	497.9
115°	465.6	492.8
117.5°	438.8	468.9
120°	417.1	446.4
122.5°	396.0	424.8
125°	365.8	392.4
127.5°	338.8	361.2
130°	322.8	343.5
132.5°	308.3	326.9
135°	288.5	304.5
137.5°	272.6	285.7
140°	261.6	273.9
142.5°	252.6	263.2
145°	239.1	247.1
147.5°	228.7	235.2
150°	222.1	227.5
152.5°	216.5	220.6
155°	210.0	212.7
157.5°	205.0	206.9
160°	201.9	203.0
162.5°	200.0	201.0
165°	197.1	198.2
167.5°	195.0	195.4
170°	194.4	194.4
172.5°	192.9	192.6
175°	192.0	192.0
177.5°	191.2	190.8
180°	190.8	190.8



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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	5.87	7.02	6.61	7.79	8.72	19.03	20.19	19.77	20.96	21.88
	3H	6.59	7.63	7.35	8.41	9.37	20.89	21.93	21.64	22.71	23.66
	4H	6.90	7.89	7.68	8.68	9.64	21.54	22.53	22.31	23.31	24.28
	6H	7.17	8.08	7.96	8.88	9.86	21.98	22.89	22.77	23.69	24.67
	8H	7.25	8.12	8.04	8.93	9.92	22.11	22.98	22.91	23.80	24.78
	12H	7.27	8.10	8.08	8.91	9.93	22.19	23.02	22.99	23.83	24.84
4H	2H	13.11	14.09	13.88	14.88	15.85	19.34	20.33	20.12	21.11	22.08
	3H	14.70	15.53	15.49	16.35	17.34	21.41	22.23	22.20	23.06	24.04
	4H	14.81	15.56	15.61	16.39	17.40	22.18	22.94	22.99	23.76	24.77
	6H	14.84	15.49	15.66	16.34	17.36	22.74	23.39	23.56	24.24	25.26
	8H	14.82	15.44	15.65	16.28	17.31	22.90	23.52	23.73	24.36	25.39
	12H	14.79	15.35	15.64	16.21	17.25	23.01	23.56	23.86	24.43	25.46
8H	4H	16.28	16.89	17.10	17.73	18.76	22.27	22.88	23.09	23.72	24.76
	6H	16.53	17.04	17.39	17.93	18.96	22.91	23.42	23.76	24.30	25.33
	8H	16.56	17.01	17.42	17.89	18.94	23.13	23.58	23.99	24.46	25.51
	12H	16.54	16.94	17.41	17.81	18.91	23.29	23.69	24.15	24.56	25.66
12H	4H	16.43	16.99	17.28	17.85	18.89	22.24	22.79	23.08	23.65	24.69
	6H	16.79	17.25	17.66	18.13	19.18	22.90	23.35	23.76	24.23	25.28
	8H	16.88	17.28	17.75	18.15	19.25	23.14	23.54	24.01	24.41	25.51