

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: P937258

Luminaire Tested: SQ4-FB-075U-100D-93050-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937258
REPORT IS A COMBINATION OF REPORTS P933503 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-100D-93050-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

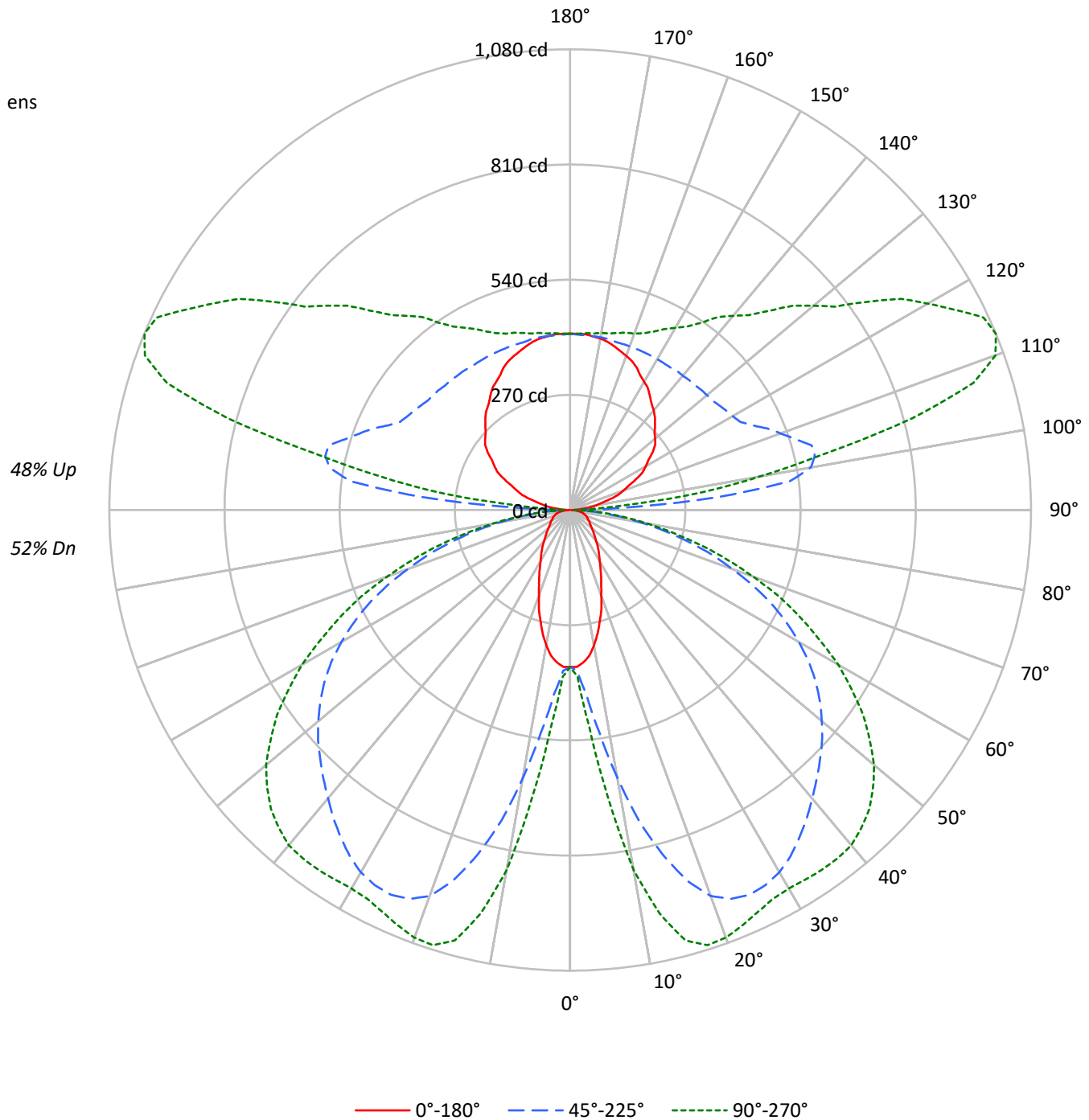
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5528.6 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 51.2
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	0
RCR																		
0	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	93	89	85	90	86	82	79	73	70	68	61	59	57	50	49	47	42
2	88	80	74	69	81	74	69	64	63	59	55	53	50	47	43	41	39	34
3	80	70	62	56	74	65	58	53	55	50	46	46	42	39	38	35	32	28
4	73	62	53	47	67	57	50	44	49	43	38	41	36	33	33	30	27	24
5	67	55	46	40	61	51	43	37	43	37	33	36	32	28	30	26	23	20
6	61	49	40	34	56	45	38	32	39	33	28	32	28	24	27	23	20	17
7	56	44	35	30	52	41	33	28	35	29	24	29	25	21	24	20	18	15
8	52	39	31	26	48	37	29	24	31	26	21	27	22	19	22	18	16	13
9	49	36	28	23	45	33	26	22	29	23	19	24	20	16	20	17	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3414	3414	3414
5°	3332	3943	4590
10°	3019	5743	7608
15°	2562	7498	9186
20°	2083	8683	9361
25°	1736	9079	9172
30°	1462	9130	9155
35°	1290	8970	9392
40°	1122	8766	9636
45°	1014	8614	9674
50°	929	8476	9514
55°	887	8277	9091
60°	905	7904	8426
65°	936	7339	7510
70°	990	6388	6344
75°	1085	5195	4952
80°	1161	3590	3336
85°	977	1895	1706

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9674 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	0.9
10°-20°	210.9	3.8
20°-30°	368.9	6.7
30°-40°	474.9	8.6
40°-50°	530.5	9.6
50°-60°	508.1	9.2
60°-70°	402.7	7.3
70°-80°	236.8	4.3
80°-90°	67.4	1.2
90°-100°	201.6	3.6
100°-110°	530.0	9.6
110°-120°	549.5	9.9
120°-130°	440.8	8.0
130°-140°	345.9	6.3
140°-150°	265.5	4.8
150°-160°	191.2	3.5
160°-170°	117.0	2.1
170°-180°	39.5	0.7
0°-30°	627.5	11.3
0°-40°	1102.4	19.9
0°-60°	2141.0	38.7
0°-90°	2847.8	51.5
90°-120°	1281.1	23.2
90°-150°	2333.1	42.2
90°-180°	2681.0	48.5
0°-180°	5528.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	368	368	368	368	368	
5°	358	384	433	490	508	33
15°	268	496	835	1013	1045	75
25°	172	562	995	1039	1040	79
35°	116	537	937	990	1029	72
45°	79	428	828	949	991	61
55°	57	272	703	816	839	52
65°	45	144	522	587	595	45
75°	33	89	286	315	316	35
85°	12	27	71	78	79	13
90°	3	8	21	11	11	3
95°	27	104	347	179	122	30
105°	95	145	586	890	830	101
115°	170	206	469	936	1069	168
125°	236	264	427	721	851	209
135°	281	309	414	582	660	218
145°	326	347	408	497	536	204
155°	369	379	408	448	461	169
165°	398	403	408	424	430	112
175°	414	414	411	416	416	39
180°	414	414	414	414	414	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9	367.9
2.5°	367.9	367.9	370.3	371.5	373.8	375.0	377.4	379.7	386.9	388.0	390.4
5°	358.5	363.2	378.5	384.4	401.0	423.5	433.0	448.4	480.3	489.7	495.6
7.5°	344.2	354.9	392.8	402.3	443.6	502.8	527.6	560.7	611.6	636.5	656.5
10°	321.8	344.2	411.7	434.1	501.6	591.5	637.6	683.7	760.7	794.9	808.0
12.5°	297.0	333.6	431.8	462.5	559.6	690.9	746.5	797.4	884.9	931.0	938.1
15°	268.5	318.2	450.7	495.6	621.1	773.7	835.2	897.9	979.6	1012.7	1020.9
17.5°	243.7	306.4	468.4	515.8	668.4	848.2	910.9	963.0	1029.3	1051.7	1057.6
20°	212.9	287.5	480.3	541.8	718.1	902.7	963.0	1003.2	1048.1	1062.4	1064.7
22.5°	190.4	267.3	487.4	551.2	751.2	935.8	986.6	1018.6	1049.3	1054.1	1055.2
25°	171.5	244.9	486.2	561.9	779.6	955.8	994.9	1018.6	1036.3	1038.7	1038.7
27.5°	153.8	220.1	481.5	564.3	800.9	960.6	991.4	1007.9	1016.2	1020.9	1020.9
30°	138.4	196.3	469.7	559.6	810.3	955.8	980.7	989.0	997.3	1004.4	1007.9
32.5°	126.6	173.9	452.0	550.1	811.5	944.0	961.7	966.5	978.3	994.9	1000.9
35°	115.9	151.4	431.8	537.1	804.4	925.1	936.9	941.7	965.3	990.2	998.5
37.5°	105.3	134.8	405.8	514.6	793.8	902.7	910.9	919.2	955.8	985.5	994.9
40°	94.6	120.7	375.0	489.7	777.2	875.4	882.5	895.6	944.0	978.3	987.8
42.5°	86.4	108.9	341.9	463.8	755.9	844.6	855.3	874.3	929.9	966.5	977.1
45°	79.2	97.0	306.4	428.2	728.7	812.8	828.1	854.1	913.3	948.8	958.3
47.5°	72.2	88.7	269.8	391.6	699.1	780.8	800.9	830.5	890.8	925.1	933.4
50°	66.3	80.5	233.0	352.6	667.2	746.5	770.1	800.9	862.5	894.3	905.0
52.5°	61.5	73.3	198.8	313.5	630.6	711.0	738.2	770.1	828.1	858.9	865.9
55°	56.8	67.4	169.2	272.1	592.7	673.1	702.7	733.4	790.3	816.3	821.0
57.5°	54.4	62.7	144.3	233.0	552.5	630.6	663.7	692.1	745.3	765.4	770.1
60°	50.9	59.2	125.4	199.9	508.7	590.3	618.8	647.1	692.1	708.6	712.1
62.5°	47.4	56.8	111.2	168.0	463.8	543.0	571.4	597.4	635.3	647.1	651.9
65°	44.9	54.4	100.5	144.3	417.6	493.3	521.7	544.2	575.0	586.8	589.1
67.5°	42.6	52.0	92.3	124.2	371.5	443.6	464.9	486.2	509.9	521.7	522.9
70°	39.0	49.7	85.1	110.0	324.1	386.9	404.6	427.1	446.0	452.0	455.4
72.5°	36.7	46.1	80.5	99.4	275.7	332.4	349.0	362.0	378.5	384.4	384.4
75°	33.1	41.4	75.7	88.7	226.0	272.1	286.3	299.3	312.3	314.7	311.1
77.5°	29.5	36.7	65.1	74.5	176.3	215.3	227.1	234.2	244.9	247.3	248.4
80°	24.8	32.0	50.9	57.9	127.8	158.6	166.8	172.7	182.2	182.2	184.5
82.5°	18.9	24.8	36.7	41.4	86.4	108.9	115.9	119.5	125.4	125.4	125.4
85°	11.8	15.4	23.6	27.2	52.0	66.3	71.0	72.2	76.9	78.1	78.1
87.5°	5.9	8.2	15.4	16.6	27.2	34.3	34.3	36.7	36.7	35.5	34.3
90°	2.8	5.0	7.3	7.8	12.3	18.2	21.1	18.8	14.1	10.6	10.6
92.5°	11.1	30.0	48.8	53.5	75.3	104.3	118.8	104.1	74.8	52.7	50.7
95°	26.7	61.2	95.8	104.4	185.3	293.2	347.2	309.8	235.0	179.0	172.6
97.5°	46.1	76.5	107.0	114.6	249.6	429.6	519.5	495.9	448.7	413.3	401.2
100°	61.1	88.6	116.3	123.2	273.0	472.7	572.6	574.3	577.7	580.3	565.9
102.5°	73.9	99.6	125.3	131.8	283.7	486.3	587.6	617.7	677.8	723.0	710.6
105°	95.4	117.3	139.1	144.6	291.7	487.9	585.9	653.4	788.3	889.5	882.9
107.5°	117.6	138.1	158.4	163.5	293.2	466.1	552.6	646.7	834.9	976.1	977.7
110°	132.7	151.0	169.5	174.0	291.0	446.9	524.8	630.0	840.4	998.3	1005.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	147.4	164.9	182.4	186.8	291.1	430.1	499.6	607.3	822.6	984.1	994.8
115°	169.6	185.7	201.9	205.9	293.8	410.8	469.3	573.1	780.5	936.1	950.8
117.5°	191.5	206.2	220.9	224.5	299.2	398.7	448.5	542.1	729.3	869.8	886.1
120°	204.3	218.1	231.9	235.4	303.6	394.7	440.1	525.7	696.8	825.1	841.0
122.5°	216.8	230.7	244.6	248.1	310.0	392.5	433.8	510.8	664.9	780.4	796.1
125°	235.9	248.6	261.3	264.5	318.6	390.8	426.9	492.3	623.2	721.4	735.8
127.5°	251.5	264.3	277.1	280.3	327.2	389.8	421.1	477.3	589.7	673.9	686.1
130°	259.8	273.6	287.4	290.9	333.5	390.4	418.8	468.9	568.9	643.9	655.1
132.5°	268.4	282.2	296.0	299.5	338.6	390.8	416.9	461.6	551.2	618.4	628.4
135°	281.1	293.7	306.3	309.4	344.2	390.4	413.5	451.1	526.1	582.3	591.0
137.5°	294.2	306.6	319.1	322.2	352.5	392.9	413.0	444.7	508.1	555.6	562.7
140°	305.0	316.5	328.0	330.8	357.6	393.2	411.0	438.4	493.1	534.2	540.9
142.5°	313.4	323.9	334.5	337.2	361.8	394.7	411.0	435.1	483.2	519.3	525.0
145°	326.1	335.4	344.6	346.9	367.3	394.7	408.3	428.0	467.3	496.8	501.1
147.5°	338.9	347.8	356.9	359.1	375.5	397.3	408.3	423.8	454.7	477.9	481.5
150°	347.2	355.3	363.5	365.6	379.8	398.8	408.3	421.3	447.5	467.1	469.9
152.5°	355.8	362.0	368.2	369.7	382.6	399.7	408.3	419.5	441.7	458.5	460.6
155°	368.6	373.2	377.6	378.8	388.7	401.7	408.3	417.1	434.9	448.2	449.6
157.5°	378.0	382.5	387.0	388.0	394.7	403.8	408.3	415.2	428.9	439.3	440.3
160°	384.4	387.8	391.3	392.1	397.5	404.7	408.3	414.2	426.1	434.9	435.5
162.5°	390.8	393.4	396.0	396.6	400.5	405.7	408.3	413.3	423.2	430.7	431.3
165°	397.7	400.0	402.4	403.0	404.8	407.1	408.3	411.8	419.0	424.4	425.0
167.5°	404.1	405.1	406.3	406.6	408.1	410.1	411.0	413.4	418.1	421.6	421.9
170°	408.3	409.3	410.5	410.8	410.9	410.9	411.0	413.4	418.1	421.6	421.6
172.5°	410.5	410.8	410.9	411.0	411.0	411.0	411.0	412.9	416.6	419.4	419.2
175°	413.5	413.5	413.5	413.5	412.7	411.6	411.0	412.2	414.5	416.3	416.3
177.5°	413.5	413.5	413.5	413.5	412.9	412.0	411.6	412.5	414.4	415.8	415.5
180°	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5	413.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	367.9	367.9
2.5°	392.8	390.4
5°	505.1	507.6
7.5°	680.3	679.0
10°	845.9	856.5
12.5°	966.5	968.9
15°	1039.9	1044.6
17.5°	1068.3	1069.5
20°	1069.5	1067.0
22.5°	1056.5	1054.1
25°	1041.1	1039.9
27.5°	1026.8	1028.0
30°	1020.9	1024.5
32.5°	1020.9	1026.8
35°	1023.3	1029.3
37.5°	1022.1	1029.3
40°	1017.4	1025.7
42.5°	1004.4	1010.3
45°	984.3	991.4
47.5°	958.3	963.0
50°	925.1	929.9
52.5°	883.7	884.9
55°	834.0	838.7
57.5°	780.8	782.0
60°	721.6	725.2
62.5°	658.9	658.9
65°	592.7	595.0
67.5°	524.1	530.0
70°	454.3	455.4
72.5°	385.7	385.7
75°	314.7	315.9
77.5°	247.3	247.3
80°	183.4	184.5
82.5°	126.6	128.9
85°	79.2	79.2
87.5°	36.7	33.1
90°	10.6	10.6
92.5°	42.3	33.8
95°	147.3	121.9
97.5°	352.8	304.5
100°	508.4	450.7
102.5°	661.3	611.9
105°	856.4	829.9
107.5°	984.1	990.6
110°	1032.8	1060.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1037.2	1079.7
115°	1009.7	1068.6
117.5°	951.4	1016.6
120°	904.4	967.7
122.5°	858.6	921.2
125°	793.3	850.9
127.5°	734.6	783.2
130°	700.0	744.9
132.5°	668.6	708.8
135°	625.6	660.3
137.5°	591.1	619.5
140°	567.4	593.9
142.5°	547.8	570.6
145°	518.4	535.7
147.5°	495.8	510.1
150°	481.6	493.2
152.5°	469.4	478.2
155°	455.4	461.3
157.5°	444.4	448.5
160°	437.8	440.1
162.5°	433.5	435.7
165°	427.3	429.7
167.5°	422.9	423.8
170°	421.6	421.6
172.5°	418.3	417.4
175°	416.3	416.3
177.5°	414.5	413.5
180°	413.5	413.5



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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	5.39	6.31	6.33	7.27	8.51	18.53	19.45	19.47	20.41	21.65
	3H	6.10	6.93	7.05	7.89	9.16	20.36	21.18	21.31	22.15	23.42
	4H	6.40	7.18	7.37	8.16	9.43	21.00	21.78	21.96	22.75	24.03
	6H	6.66	7.38	7.63	8.35	9.65	21.42	22.14	22.39	23.12	24.41
	8H	6.73	7.41	7.71	8.41	9.70	21.54	22.22	22.52	23.22	24.50
	12H	6.75	7.40	7.73	8.39	9.70	21.60	22.25	22.58	23.24	24.55
4H	2H	12.59	13.37	13.56	14.34	15.62	18.82	19.59	19.78	20.57	21.84
	3H	14.17	14.82	15.14	15.82	17.11	20.85	21.50	21.83	22.51	23.80
	4H	14.26	14.86	15.25	15.86	17.17	21.61	22.21	22.60	23.20	24.52
	6H	14.28	14.79	15.28	15.81	17.13	22.14	22.66	23.14	23.68	24.99
	8H	14.26	14.74	15.26	15.75	17.08	22.30	22.78	23.30	23.79	25.12
	12H	14.22	14.65	15.24	15.68	17.01	22.38	22.82	23.40	23.85	25.18
8H	4H	15.70	16.19	16.70	17.20	18.53	21.68	22.16	22.68	23.17	24.50
	6H	15.95	16.35	16.97	17.40	18.73	22.30	22.70	23.32	23.75	25.08
	8H	15.97	16.32	17.00	17.36	18.70	22.51	22.86	23.54	23.90	25.25
	12H	15.94	16.25	16.98	17.28	18.67	22.65	22.96	23.69	23.99	25.38
12H	4H	15.85	16.28	16.87	17.31	18.64	21.63	22.07	22.65	23.10	24.43
	6H	16.20	16.56	17.24	17.60	18.94	22.28	22.63	23.31	23.67	25.02
	8H	16.28	16.59	17.31	17.62	19.01	22.50	22.82	23.54	23.85	25.24