

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: P936272

Luminaire Tested: SQ4-FB-025U-050D-935-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936272
REPORT IS A COMBINATION OF REPORTS P933453 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-050D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

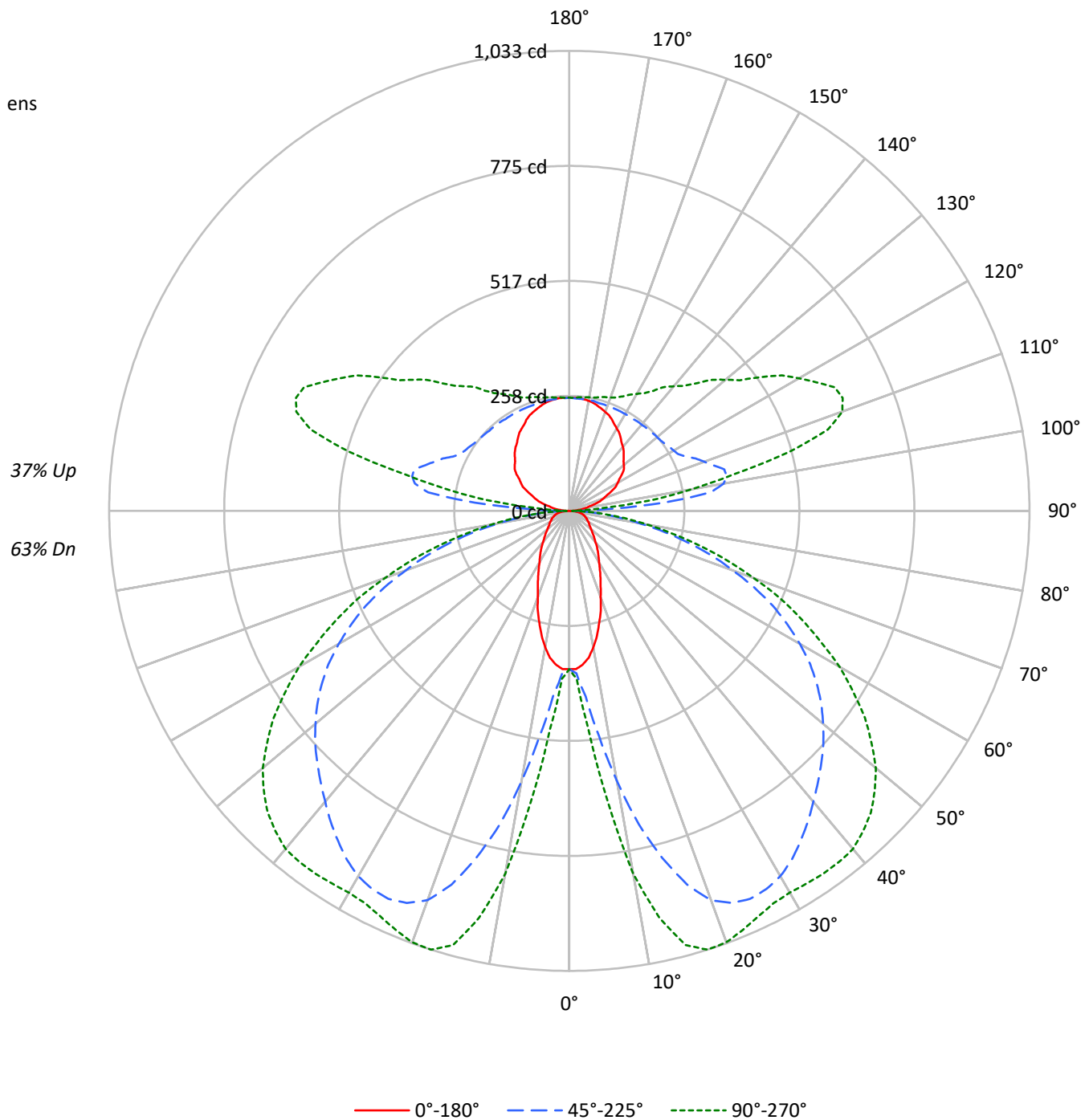
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4398.9 lumens
Efficiency: N/A
Efficacy: 100.0 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 44
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				
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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	68	68	68	63
1	100	95	91	87	93	89	86	82	78	75	73	68	66	64	59	57	56	59	57	56	51
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46	51	48	46	42
3	82	72	64	57	76	67	60	55	59	53	49	51	47	43	44	41	38	44	41	38	34
4	75	63	54	48	69	59	52	46	52	46	41	45	40	37	39	35	32	39	35	32	29
5	68	56	47	41	63	52	45	39	46	40	35	40	35	31	35	31	28	35	31	28	24
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24	31	27	24	21
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21	28	24	21	18
8	53	40	32	26	50	38	31	25	34	27	23	30	24	21	26	22	18	26	22	18	16
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	24	19	16	24	19	16	14
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1649	1649	1649
5°	1611	1906	2216
10°	1461	2778	3675
15°	1242	3630	4437
20°	1011	4206	4521
25°	843	4402	4430
30°	711	4429	4422
35°	629	4356	4536
40°	548	4260	4654
45°	496	4190	4672
50°	455	4127	4595
55°	436	4035	4392
60°	447	3858	4070
65°	465	3589	3628
70°	494	3129	3065
75°	548	2552	2392
80°	599	1769	1611
85°	531	939	825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4672 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.0	1.0
10°-20°	203.8	4.6
20°-30°	356.4	8.1
30°-40°	458.8	10.4
40°-50°	512.4	11.6
50°-60°	490.8	11.2
60°-70°	389.0	8.8
70°-80°	228.7	5.2
80°-90°	64.5	1.5
90°-100°	124.0	2.8
100°-110°	325.9	7.4
110°-120°	337.9	7.7
120°-130°	271.1	6.2
130°-140°	212.7	4.8
140°-150°	163.2	3.7
150°-160°	117.6	2.7
160°-170°	71.9	1.6
170°-180°	24.3	0.6
0°-30°	606.1	13.8
0°-40°	1064.9	24.2
0°-60°	2068.2	47.0
0°-90°	2750.4	62.5
90°-120°	787.8	17.9
90°-150°	1434.7	32.6
90°-180°	1649.0	37.5
0°-180°	4398.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	355	355	355	355	355	
5°	346	371	418	473	490	32
15°	259	479	807	978	1009	72
25°	166	543	961	1003	1004	76
35°	112	519	905	956	994	70
45°	77	414	800	916	958	59
55°	55	263	679	788	810	50
65°	44	139	504	567	575	43
75°	32	86	277	304	305	33
85°	11	26	69	75	77	12
90°	2	5	13	6	6	2
95°	16	64	214	110	75	18
105°	59	89	360	547	510	62
115°	104	127	289	576	657	103
125°	145	163	262	444	523	129
135°	173	190	254	358	406	134
145°	201	213	251	306	329	126
155°	227	233	251	276	284	104
165°	245	248	251	261	264	69
175°	254	254	253	256	256	24
180°	254	254	254	254	254	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4	355.4
2.5°	355.4	355.4	357.7	358.9	361.1	362.3	364.6	366.9	373.7	374.8	377.1
5°	346.3	350.9	365.7	371.4	387.4	409.1	418.2	433.1	464.0	473.1	478.8
7.5°	332.5	342.8	379.4	388.5	428.6	485.6	509.7	541.7	590.8	614.8	634.2
10°	310.8	332.5	397.7	419.4	484.5	571.4	616.0	660.6	734.8	767.9	780.5
12.5°	286.9	322.2	417.1	446.8	540.5	667.4	721.1	770.2	854.8	899.4	906.2
15°	259.4	307.4	435.4	478.8	600.0	747.4	806.8	867.3	946.2	978.2	986.2
17.5°	235.4	296.0	452.6	498.2	645.6	819.4	879.9	930.2	994.2	1015.9	1021.6
20°	205.7	277.7	464.0	523.4	693.7	871.9	930.2	969.1	1012.5	1026.2	1028.5
22.5°	183.9	258.2	470.8	532.5	725.6	904.0	953.0	984.0	1013.6	1018.2	1019.3
25°	165.7	236.5	469.7	542.8	753.1	923.4	961.1	984.0	1001.1	1003.4	1003.4
27.5°	148.6	212.6	465.1	545.1	773.7	927.9	957.6	973.7	981.7	986.2	986.2
30°	133.7	189.7	453.7	540.5	782.8	923.4	947.3	955.3	963.4	970.3	973.7
32.5°	122.3	168.0	436.6	531.4	783.9	911.9	929.1	933.6	945.0	961.1	966.8
35°	112.0	146.3	417.1	518.8	777.1	893.7	905.1	909.7	932.5	956.5	964.5
37.5°	101.7	130.3	392.0	497.1	766.8	871.9	879.9	888.0	923.4	951.9	961.1
40°	91.4	116.6	362.3	473.1	750.8	845.7	852.5	865.1	911.9	945.0	954.2
42.5°	83.4	105.1	330.2	448.0	730.2	816.0	826.3	844.5	898.3	933.6	943.9
45°	76.6	93.7	296.0	413.6	703.9	785.1	799.9	825.1	882.2	916.5	925.6
47.5°	69.7	85.7	260.5	378.3	675.4	754.3	773.7	802.2	860.5	893.7	901.7
50°	64.0	77.7	225.1	340.5	644.5	721.1	744.0	773.7	833.1	863.9	874.2
52.5°	59.4	70.9	192.0	302.8	609.1	686.8	713.1	744.0	799.9	829.7	836.5
55°	54.9	65.2	163.4	262.8	572.5	650.2	678.8	708.5	763.4	788.5	793.1
57.5°	52.6	60.6	139.4	225.1	533.7	609.1	641.1	668.6	719.9	739.4	744.0
60°	49.2	57.2	121.2	193.1	491.4	570.2	597.7	625.1	668.6	684.5	688.0
62.5°	45.8	54.9	107.4	162.3	448.0	524.6	551.9	577.1	613.7	625.1	629.7
65°	43.5	52.6	97.1	139.4	403.4	476.5	504.0	525.7	555.4	566.8	569.1
67.5°	41.2	50.3	89.1	120.0	358.9	428.6	449.1	469.7	492.5	504.0	505.1
70°	37.7	48.0	82.3	106.2	313.1	373.7	390.8	412.5	430.9	436.6	440.0
72.5°	35.4	44.6	77.7	96.0	266.2	321.1	337.1	349.7	365.7	371.4	371.4
75°	32.0	40.0	73.1	85.7	218.3	262.8	276.6	289.1	301.7	304.0	300.6
77.5°	28.5	35.4	62.9	72.0	170.3	208.0	219.4	226.3	236.5	238.8	240.0
80°	24.0	30.8	49.2	56.0	123.5	153.1	161.1	166.8	176.0	176.0	178.2
82.5°	18.3	24.0	35.4	40.0	83.4	105.1	112.0	115.4	121.2	121.2	121.2
85°	11.4	14.8	22.8	26.2	50.3	64.0	68.6	69.7	74.3	75.4	75.4
87.5°	5.7	8.0	14.8	16.0	26.2	33.1	33.1	35.4	35.4	34.3	33.1
90°	1.7	3.1	4.4	4.8	7.5	11.2	13.0	11.5	8.6	6.5	6.5
92.5°	6.8	18.4	30.1	33.0	46.3	64.2	73.0	64.0	46.0	32.5	31.2
95°	16.4	37.6	58.9	64.2	113.9	180.3	213.5	190.5	144.6	110.1	106.2
97.5°	28.4	47.1	65.8	70.5	153.4	264.1	319.5	305.0	276.0	254.2	246.7
100°	37.6	54.5	71.5	75.7	167.8	290.6	352.0	353.2	355.3	356.9	348.0
102.5°	45.4	61.3	77.1	81.0	174.5	299.1	361.3	379.8	416.8	444.6	437.0
105°	58.7	72.2	85.6	88.9	179.4	300.0	360.3	401.8	484.8	547.0	542.9
107.5°	72.3	84.9	97.4	100.5	180.3	286.6	339.8	397.6	513.4	600.2	601.3
110°	81.6	92.9	104.2	107.0	178.9	274.8	322.7	387.4	516.8	613.9	618.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	90.7	101.4	112.1	114.8	179.0	264.5	307.2	373.4	505.8	605.2	611.7
115°	104.3	114.2	124.1	126.6	180.6	252.6	288.6	352.4	480.0	575.7	584.7
117.5°	117.7	126.8	135.8	138.1	184.0	245.2	275.8	333.4	448.5	534.9	544.9
120°	125.6	134.1	142.6	144.8	186.8	242.7	270.7	323.2	428.5	507.4	517.1
122.5°	133.3	141.9	150.5	152.6	190.7	241.4	266.8	314.1	408.9	479.9	489.6
125°	145.1	152.9	160.7	162.6	196.0	240.3	262.5	302.7	383.2	443.6	452.4
127.5°	154.6	162.5	170.4	172.4	201.2	239.7	258.9	293.5	362.6	414.4	421.9
130°	159.8	168.3	176.7	178.8	205.1	240.1	257.6	288.3	349.8	395.9	402.8
132.5°	165.0	173.6	182.0	184.1	208.2	240.3	256.4	283.9	338.9	380.2	386.5
135°	172.9	180.6	188.4	190.3	211.6	240.1	254.3	277.4	323.5	358.1	363.4
137.5°	180.9	188.5	196.2	198.2	216.7	241.5	254.0	273.5	312.4	341.7	346.0
140°	187.5	194.6	201.7	203.5	219.9	241.8	252.8	269.7	303.3	328.5	332.6
142.5°	192.7	199.2	205.8	207.4	222.5	242.7	252.8	267.6	297.2	319.3	322.8
145°	200.6	206.3	211.9	213.3	226.0	242.7	251.1	263.2	287.4	305.5	308.2
147.5°	208.4	213.9	219.5	220.8	230.9	244.4	251.1	260.6	279.6	293.9	296.1
150°	213.5	218.5	223.5	224.8	233.5	245.2	251.1	259.1	275.2	287.2	289.0
152.5°	218.8	222.5	226.4	227.3	235.2	245.8	251.1	257.9	271.6	281.9	283.3
155°	226.6	229.4	232.3	232.9	239.0	247.1	251.1	256.5	267.4	275.6	276.5
157.5°	232.4	235.2	237.9	238.6	242.7	248.3	251.1	255.3	263.8	270.2	270.8
160°	236.3	238.5	240.6	241.1	244.4	248.9	251.1	254.7	262.0	267.4	267.8
162.5°	240.3	241.9	243.4	243.8	246.2	249.5	251.1	254.2	260.3	264.9	265.2
165°	244.6	246.1	247.5	247.8	249.0	250.4	251.1	253.3	257.6	261.0	261.3
167.5°	248.5	249.2	249.9	250.1	251.0	252.2	252.8	254.2	257.1	259.3	259.4
170°	251.1	251.8	252.4	252.6	252.7	252.8	252.8	254.2	257.1	259.3	259.3
172.5°	252.4	252.6	252.8	252.8	252.8	252.8	252.8	253.9	256.2	257.9	257.7
175°	254.3	254.3	254.3	254.3	253.8	253.1	252.8	253.5	254.9	256.0	256.0
177.5°	254.3	254.3	254.3	254.3	253.9	253.4	253.1	253.7	254.8	255.7	255.5
180°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	355.4	355.4
2.5°	379.4	377.1
5°	487.9	490.2
7.5°	657.1	656.0
10°	817.1	827.4
12.5°	933.6	935.9
15°	1004.5	1009.1
17.5°	1031.9	1033.0
20°	1033.0	1030.7
22.5°	1020.5	1018.2
25°	1005.6	1004.5
27.5°	991.9	993.1
30°	986.2	989.7
32.5°	986.2	991.9
35°	988.5	994.2
37.5°	987.4	994.2
40°	982.8	990.8
42.5°	970.3	976.0
45°	950.8	957.6
47.5°	925.6	930.2
50°	893.7	898.3
52.5°	853.6	854.8
55°	805.7	810.3
57.5°	754.3	755.4
60°	697.1	700.5
62.5°	636.5	636.5
65°	572.5	574.8
67.5°	506.3	512.0
70°	438.9	440.0
72.5°	372.6	372.6
75°	304.0	305.1
77.5°	238.8	238.8
80°	177.1	178.2
82.5°	122.3	124.6
85°	76.6	76.6
87.5°	35.4	32.0
90°	6.5	6.5
92.5°	26.0	20.8
95°	90.6	74.9
97.5°	216.9	187.2
100°	312.6	277.2
102.5°	406.7	376.3
105°	526.6	510.3
107.5°	605.2	609.1
110°	635.1	652.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	637.8	663.9
115°	620.9	657.1
117.5°	585.1	625.2
120°	556.1	595.1
122.5°	528.0	566.4
125°	487.9	523.3
127.5°	451.7	481.6
130°	430.4	458.0
132.5°	411.2	435.9
135°	384.7	406.0
137.5°	363.5	380.9
140°	348.9	365.3
142.5°	336.9	350.9
145°	318.8	329.4
147.5°	304.8	313.7
150°	296.2	303.3
152.5°	288.7	294.0
155°	280.1	283.6
157.5°	273.3	275.8
160°	269.2	270.7
162.5°	266.6	268.0
165°	262.8	264.2
167.5°	260.0	260.6
170°	259.3	259.3
172.5°	257.2	256.7
175°	256.0	256.0
177.5°	254.9	254.3
180°	254.3	254.3



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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	3.81	4.85	4.64	5.71	6.78	16.99	18.02	17.82	18.89	19.96
	3H	4.53	5.46	5.37	6.33	7.44	18.84	19.77	19.68	20.65	21.75
	4H	4.83	5.72	5.69	6.60	7.71	19.49	20.38	20.35	21.26	22.37
	6H	5.09	5.91	5.97	6.79	7.92	19.93	20.75	20.81	21.63	22.76
	8H	5.17	5.94	6.05	6.85	7.98	20.06	20.84	20.94	21.74	22.87
	12H	5.19	5.93	6.08	6.83	7.98	20.13	20.88	21.02	21.77	22.93
4H	2H	11.04	11.93	11.91	12.81	13.92	17.28	18.17	18.15	19.05	20.16
	3H	12.63	13.37	13.51	14.28	15.41	19.34	20.09	20.22	21.00	22.13
	4H	12.73	13.41	13.62	14.31	15.47	20.12	20.80	21.01	21.70	22.86
	6H	12.75	13.34	13.66	14.27	15.43	20.67	21.26	21.57	22.19	23.34
	8H	12.73	13.28	13.64	14.21	15.38	20.84	21.38	21.74	22.31	23.48
	12H	12.70	13.19	13.63	14.14	15.32	20.94	21.43	21.87	22.38	23.55
8H	4H	14.19	14.74	15.10	15.66	16.84	20.19	20.74	21.10	21.67	22.84
	6H	14.44	14.90	15.38	15.86	17.03	20.83	21.29	21.77	22.25	23.42
	8H	14.46	14.87	15.41	15.82	17.01	21.05	21.46	22.00	22.42	23.60
	12H	14.44	14.80	15.39	15.75	16.98	21.21	21.56	22.16	22.51	23.75
12H	4H	14.34	14.84	15.27	15.78	16.96	20.16	20.65	21.09	21.60	22.77
	6H	14.70	15.11	15.65	16.06	17.25	20.82	21.22	21.76	22.18	23.37
	8H	14.78	15.14	15.73	16.09	17.32	21.06	21.41	22.01	22.36	23.60