

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: P936270

Luminaire Tested: SQ4-FB-025U-050D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936270
REPORT IS A COMBINATION OF REPORTS P933437 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-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

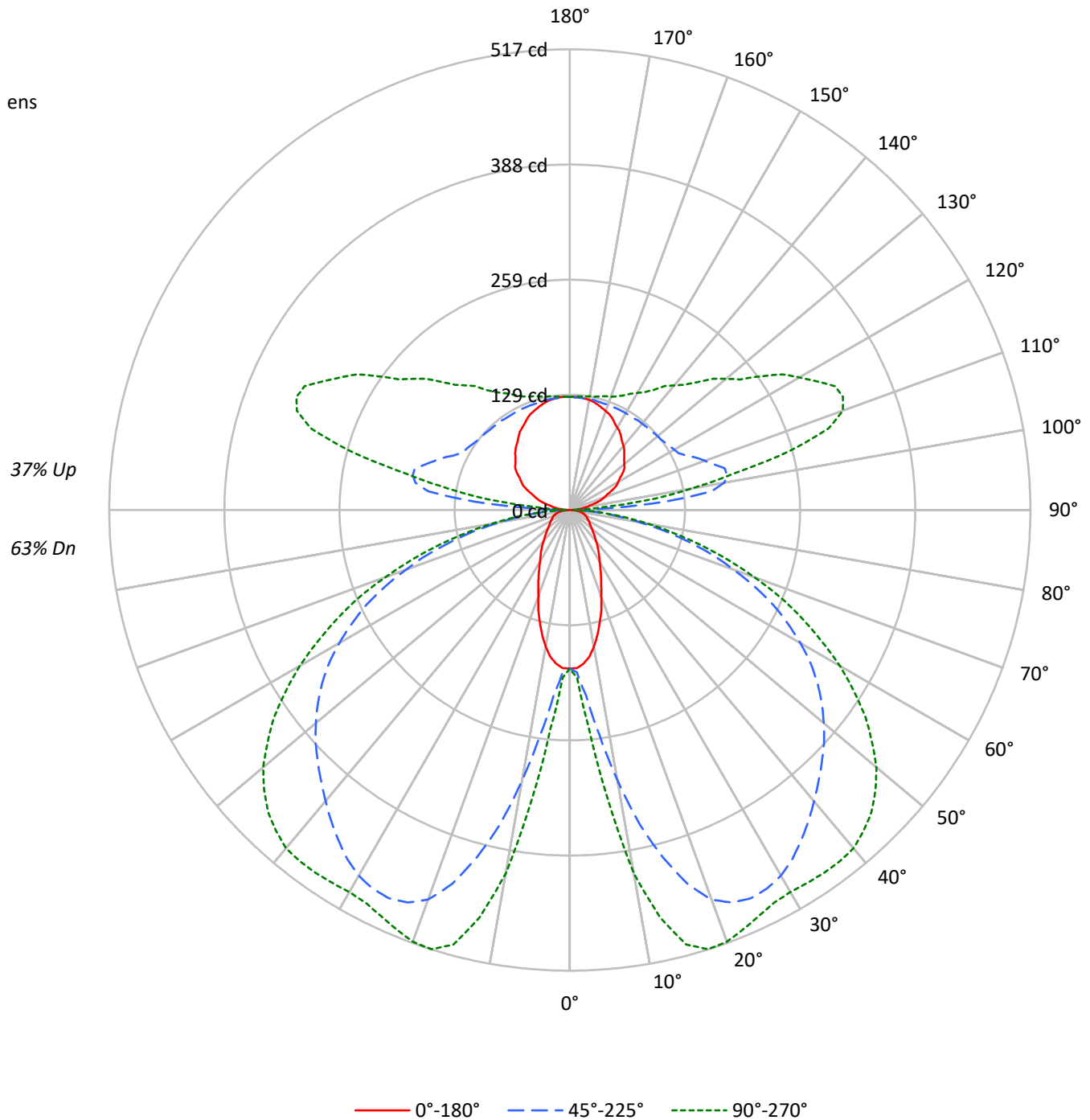
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2199.8 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: 4' x H: 0.1')
CIE Type: Semi-Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1649	1649	1649
5°	1610	1905	2217
10°	1459	2775	3676
15°	1239	3622	4438
20°	1007	4195	4523
25°	839	4387	4431
30°	707	4411	4423
35°	623	4334	4537
40°	543	4236	4655
45°	490	4162	4674
50°	449	4095	4597
55°	428	3999	4392
60°	436	3819	4070
65°	452	3545	3629
70°	477	3085	3066
75°	525	2509	2392
80°	562	1735	1613
85°	472	915	825

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4674 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	23.0	1.0
10°-20°	101.9	4.6
20°-30°	178.3	8.1
30°-40°	229.5	10.4
40°-50°	256.3	11.7
50°-60°	245.5	11.2
60°-70°	194.5	8.8
70°-80°	114.4	5.2
80°-90°	32.3	1.5
90°-100°	62.0	2.8
100°-110°	162.9	7.4
110°-120°	169.0	7.7
120°-130°	135.5	6.2
130°-140°	106.3	4.8
140°-150°	81.6	3.7
150°-160°	58.8	2.7
160°-170°	36.0	1.6
170°-180°	12.1	0.6
0°-30°	303.2	13.8
0°-40°	532.6	24.2
0°-60°	1034.4	47.0
0°-90°	1375.6	62.5
90°-120°	393.9	17.9
90°-150°	717.3	32.6
90°-180°	824.0	37.5
0°-180°	2199.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	178	178	178	178	178	
5°	173	186	209	237	245	16
15°	130	240	404	489	505	36
25°	83	272	481	502	502	38
35°	56	260	453	478	497	35
45°	38	207	400	458	479	30
55°	27	132	340	394	405	25
65°	22	70	252	284	288	21
75°	16	43	138	152	153	17
85°	6	13	34	38	38	6
90°	1	2	6	3	3	1
95°	8	32	107	55	38	9
105°	29	44	180	274	255	31
115°	52	63	144	288	328	51
125°	72	81	131	222	262	64
135°	86	95	127	179	203	67
145°	100	107	126	153	165	63
155°	113	116	126	138	142	52
165°	122	124	126	130	132	35
175°	127	127	126	128	128	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	177.7	177.7	177.7	177.7	177.7	177.7	177.7	177.7	177.7	177.7	177.7
2.5°	177.7	177.7	178.9	179.4	180.6	181.2	182.3	183.4	186.9	187.4	188.6
5°	173.2	175.5	182.9	185.7	193.7	204.7	209.2	216.7	232.1	236.6	239.5
7.5°	166.3	171.5	189.7	194.3	214.4	242.9	254.9	270.9	295.5	307.5	317.2
10°	155.5	166.3	198.9	209.8	242.3	285.8	308.1	330.4	367.6	384.1	390.4
12.5°	143.5	161.2	208.7	223.5	270.3	333.8	360.7	385.3	427.5	449.9	453.3
15°	129.8	153.8	217.8	239.5	300.1	373.8	403.5	433.8	473.3	489.2	493.2
17.5°	117.7	148.1	226.4	249.2	322.9	409.8	440.1	465.3	497.2	508.1	510.9
20°	102.9	138.9	232.1	261.8	346.9	436.1	465.3	484.7	506.4	513.2	514.4
22.5°	92.0	129.2	235.5	266.3	363.0	452.1	476.7	492.1	506.9	509.2	509.8
25°	82.9	118.3	234.9	271.5	376.7	461.8	480.7	492.1	500.7	501.8	501.8
27.5°	74.3	106.3	232.6	272.6	387.0	464.1	479.0	487.0	491.0	493.2	493.2
30°	66.9	94.9	226.9	270.3	391.5	461.8	473.8	477.8	481.8	485.3	487.0
32.5°	61.2	84.0	218.4	265.7	392.1	456.1	464.7	467.0	472.7	480.7	483.5
35°	56.0	73.2	208.7	259.5	388.7	447.0	452.7	455.0	466.4	478.4	482.4
37.5°	50.9	65.2	196.0	248.6	383.5	436.1	440.1	444.1	461.8	476.1	480.7
40°	45.8	58.3	181.2	236.6	375.6	422.9	426.4	432.6	456.1	472.7	477.3
42.5°	41.7	52.6	165.2	224.1	365.3	408.1	413.2	422.4	449.3	467.0	472.1
45°	38.3	46.9	148.1	206.9	352.0	392.7	400.1	412.7	441.3	458.4	463.0
47.5°	34.8	42.9	130.4	189.2	337.8	377.3	387.0	401.2	430.4	447.0	451.0
50°	32.0	38.9	112.6	170.3	322.4	360.7	372.1	387.0	416.7	432.1	437.2
52.5°	29.7	35.4	96.0	151.5	304.7	343.5	356.6	372.1	400.1	414.9	418.4
55°	27.4	32.5	81.7	131.5	286.4	325.2	339.5	354.3	381.8	394.4	396.7
57.5°	26.3	30.3	69.7	112.6	266.9	304.7	320.6	334.3	360.1	369.8	372.1
60°	24.5	28.5	60.6	96.6	245.8	285.2	299.0	312.7	334.3	342.3	344.1
62.5°	22.8	27.4	53.8	81.2	224.1	262.3	276.0	288.7	306.9	312.7	314.9
65°	21.7	26.3	48.6	69.7	201.8	238.3	252.0	262.9	277.8	283.5	284.7
67.5°	20.6	25.1	44.6	60.0	179.4	214.4	224.6	234.9	246.3	252.0	252.6
70°	18.8	24.0	41.2	53.2	156.6	186.9	195.4	206.4	215.5	218.4	220.1
72.5°	17.7	22.3	38.9	48.1	133.2	160.6	168.6	174.9	182.9	185.7	185.7
75°	16.0	20.0	36.6	42.9	109.1	131.5	138.3	144.6	150.9	152.0	150.3
77.5°	14.3	17.7	31.4	36.0	85.2	104.0	109.7	113.1	118.3	119.5	120.0
80°	12.0	15.4	24.5	28.0	61.8	76.6	80.6	83.4	88.0	88.0	89.2
82.5°	9.1	12.0	17.7	20.0	41.7	52.6	56.0	57.8	60.6	60.6	60.6
85°	5.7	7.4	11.4	13.1	25.1	32.0	34.3	34.8	37.1	37.7	37.7
87.5°	2.9	4.0	7.4	8.0	13.1	16.6	16.6	17.7	17.7	17.1	16.6
90°	0.9	1.5	2.2	2.4	3.7	5.5	6.5	5.8	4.3	3.2	3.2
92.5°	3.4	9.2	15.0	16.4	23.2	32.1	36.6	32.0	23.0	16.2	15.5
95°	8.2	18.8	29.5	32.1	57.0	90.1	106.8	95.3	72.2	55.0	53.1
97.5°	14.1	23.5	32.9	35.3	76.8	132.1	159.8	152.5	137.9	127.0	123.3
100°	18.7	27.3	35.8	37.9	83.9	145.4	176.0	176.5	177.6	178.4	174.0
102.5°	22.7	30.6	38.6	40.6	87.2	149.5	180.6	189.9	208.4	222.3	218.5
105°	29.4	36.1	42.8	44.5	89.7	150.0	180.1	200.9	242.4	273.5	271.4
107.5°	36.2	42.4	48.7	50.3	90.1	143.3	169.9	198.9	256.7	300.2	300.7
110°	40.8	46.4	52.1	53.5	89.5	137.4	161.4	193.7	258.4	307.0	309.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	45.3	50.7	56.1	57.4	89.5	132.2	153.6	186.8	253.0	302.6	305.9
115°	52.1	57.1	62.0	63.3	90.3	126.4	144.3	176.2	240.0	287.8	292.3
117.5°	58.9	63.4	67.9	69.0	92.0	122.6	137.9	166.7	224.2	267.4	272.5
120°	62.8	67.1	71.3	72.3	93.3	121.3	135.3	161.6	214.3	253.7	258.6
122.5°	66.6	70.9	75.1	76.3	95.3	120.6	133.3	157.0	204.4	239.9	244.7
125°	72.5	76.4	80.3	81.4	98.0	120.1	131.2	151.3	191.6	221.8	226.2
127.5°	77.3	81.3	85.2	86.2	100.6	119.8	129.4	146.7	181.3	207.2	211.0
130°	79.8	84.1	88.4	89.5	102.6	120.0	128.7	144.2	174.9	198.0	201.4
132.5°	82.6	86.8	91.1	92.1	104.1	120.1	128.1	141.9	169.5	190.2	193.2
135°	86.5	90.3	94.2	95.2	105.8	120.0	127.1	138.6	161.7	179.0	181.6
137.5°	90.5	94.3	98.2	99.1	108.4	120.7	126.9	136.7	156.2	170.8	173.0
140°	93.8	97.3	100.9	101.7	109.9	120.9	126.4	134.8	151.7	164.3	166.3
142.5°	96.4	99.6	102.8	103.7	111.3	121.3	126.4	133.8	148.6	159.7	161.5
145°	100.3	103.1	106.0	106.7	113.0	121.3	125.5	131.5	143.6	152.8	154.1
147.5°	104.2	106.9	109.7	110.4	115.4	122.2	125.5	130.3	139.8	147.0	148.1
150°	106.8	109.2	111.8	112.4	116.7	122.6	125.5	129.5	137.6	143.6	144.5
152.5°	109.4	111.3	113.1	113.7	117.6	122.9	125.5	128.9	135.8	141.0	141.7
155°	113.3	114.7	116.1	116.5	119.5	123.5	125.5	128.2	133.8	137.9	138.3
157.5°	116.2	117.6	118.9	119.3	121.3	124.1	125.5	127.6	131.9	135.0	135.4
160°	118.2	119.2	120.3	120.6	122.2	124.4	125.5	127.3	131.0	133.7	133.8
162.5°	120.1	120.9	121.8	121.9	123.1	124.7	125.5	127.0	130.1	132.4	132.6
165°	122.3	122.9	123.7	123.9	124.4	125.2	125.5	126.6	128.8	130.4	130.6
167.5°	124.2	124.6	124.9	125.0	125.4	126.0	126.4	127.0	128.5	129.6	129.7
170°	125.5	125.8	126.2	126.3	126.3	126.4	126.4	127.0	128.5	129.6	129.6
172.5°	126.2	126.3	126.4	126.4	126.4	126.4	126.4	126.9	128.1	128.9	128.8
175°	127.1	127.1	127.1	127.1	126.9	126.5	126.4	126.7	127.5	128.0	128.0
177.5°	127.1	127.1	127.1	127.1	126.9	126.7	126.5	126.8	127.4	127.8	127.7
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	177.7	177.7
2.5°	189.7	188.6
5°	244.1	245.2
7.5°	328.6	328.1
10°	408.7	413.8
12.5°	467.0	468.1
15°	502.4	504.7
17.5°	516.1	516.7
20°	516.7	515.5
22.5°	510.4	509.2
25°	503.0	502.4
27.5°	496.1	496.7
30°	493.2	495.0
32.5°	493.2	496.1
35°	494.4	497.2
37.5°	493.8	497.2
40°	491.5	495.5
42.5°	485.3	488.1
45°	475.5	479.0
47.5°	463.0	465.3
50°	447.0	449.3
52.5°	426.9	427.5
55°	403.0	405.2
57.5°	377.3	377.8
60°	348.6	350.3
62.5°	318.4	318.4
65°	286.4	287.5
67.5°	253.2	256.0
70°	219.5	220.1
72.5°	186.3	186.3
75°	152.0	152.6
77.5°	119.5	119.5
80°	88.6	89.2
82.5°	61.2	62.3
85°	38.3	38.3
87.5°	17.7	16.0
90°	3.2	3.2
92.5°	13.0	10.4
95°	45.3	37.5
97.5°	108.5	93.6
100°	156.3	138.6
102.5°	203.3	188.1
105°	263.4	255.2
107.5°	302.6	304.6
110°	317.5	326.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	318.9	331.9
115°	310.5	328.5
117.5°	292.5	312.6
120°	278.1	297.5
122.5°	263.9	283.2
125°	243.9	261.6
127.5°	225.9	240.8
130°	215.2	229.0
132.5°	205.6	217.9
135°	192.4	203.0
137.5°	181.7	190.5
140°	174.4	182.6
142.5°	168.4	175.4
145°	159.4	164.7
147.5°	152.4	156.9
150°	148.1	151.7
152.5°	144.3	147.1
155°	140.1	141.9
157.5°	136.7	137.9
160°	134.6	135.3
162.5°	133.3	133.9
165°	131.4	132.1
167.5°	129.9	130.3
170°	129.6	129.6
172.5°	128.6	128.3
175°	128.0	128.0
177.5°	127.5	127.1
180°	127.1	127.1



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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	3.79	4.83	4.63	5.69	6.77	16.93	17.97	17.77	18.83	19.91
	3H	4.51	5.45	5.36	6.32	7.42	18.77	19.71	19.62	20.58	21.68
	4H	4.82	5.70	5.68	6.58	7.69	19.41	20.30	20.28	21.18	22.29
	6H	5.08	5.90	5.95	6.78	7.91	19.84	20.66	20.72	21.54	22.67
	8H	5.15	5.93	6.03	6.83	7.96	19.96	20.74	20.84	21.65	22.77
	12H	5.18	5.92	6.06	6.82	7.97	20.03	20.77	20.92	21.67	22.82
4H	2H	11.01	11.89	11.87	12.77	13.88	17.23	18.12	18.10	18.99	20.11
	3H	12.59	13.33	13.47	14.24	15.37	19.28	20.02	20.16	20.93	22.06
	4H	12.70	13.37	13.59	14.28	15.43	20.04	20.72	20.93	21.63	22.78
	6H	12.72	13.30	13.62	14.23	15.39	20.58	21.17	21.49	22.10	23.25
	8H	12.70	13.25	13.61	14.17	15.34	20.74	21.29	21.65	22.21	23.39
	12H	12.66	13.16	13.59	14.10	15.28	20.83	21.33	21.76	22.27	23.45
8H	4H	14.15	14.69	15.05	15.62	16.79	20.12	20.67	21.03	21.59	22.76
	6H	14.40	14.85	15.33	15.82	16.99	20.74	21.20	21.68	22.17	23.34
	8H	14.42	14.82	15.36	15.78	16.97	20.96	21.36	21.90	22.32	23.51
	12H	14.39	14.75	15.34	15.70	16.94	21.10	21.46	22.05	22.41	23.65
12H	4H	14.29	14.79	15.22	15.73	16.91	20.08	20.58	21.01	21.52	22.70
	6H	14.65	15.06	15.60	16.02	17.20	20.73	21.13	21.67	22.09	23.28
	8H	14.73	15.09	15.68	16.04	17.28	20.96	21.32	21.91	22.27	23.50