

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: P936314

Luminaire Tested: SQ4-FB-025U-075D-835-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936314
REPORT IS A COMBINATION OF REPORTS P933438 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-835-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

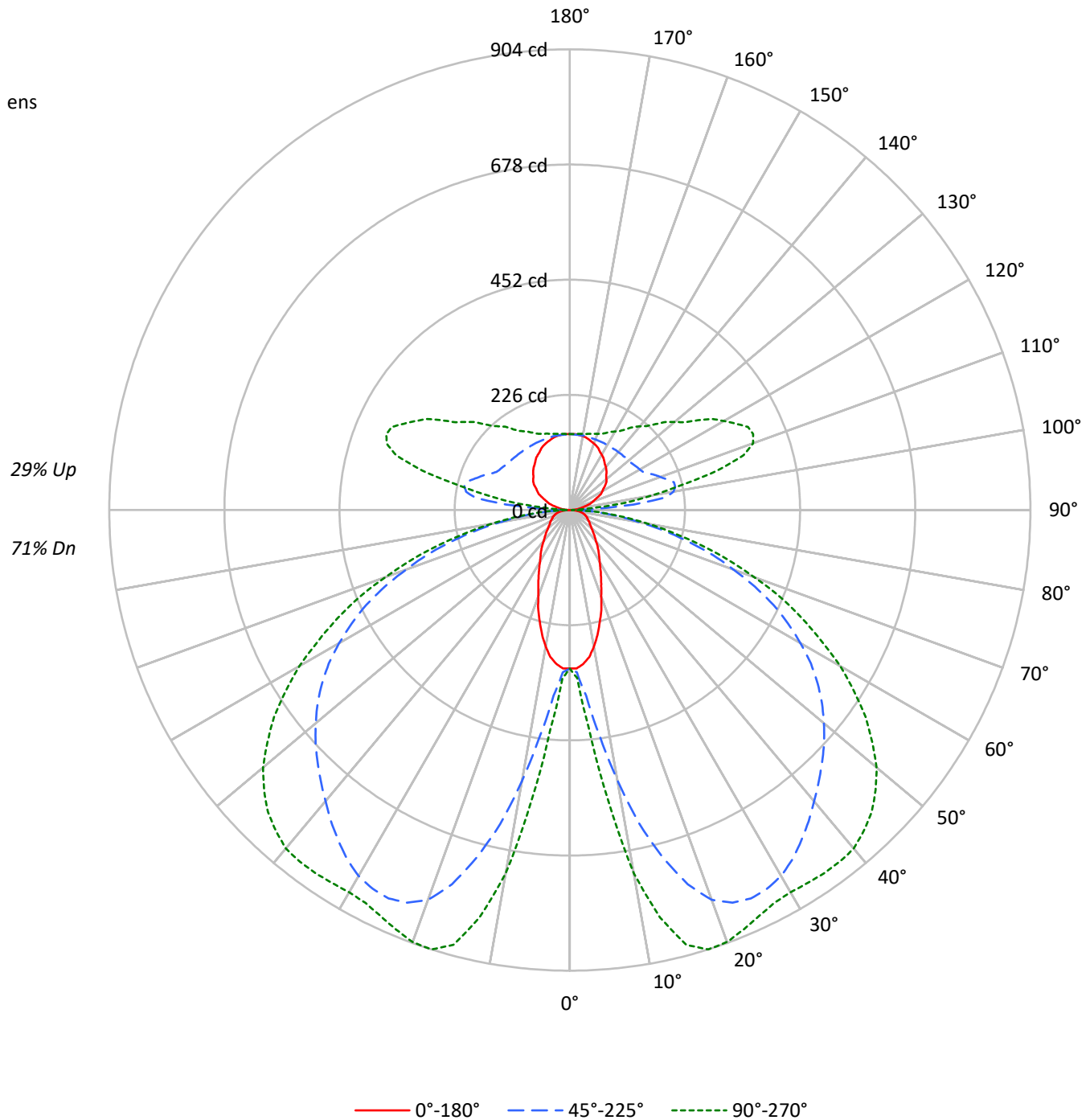
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3373.9 lumens
Efficiency: N/A
Efficacy: 112.5 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): 30
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	62	62	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	51	51	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	43	43	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	36	36	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	31	31	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	27	27	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	23	23	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	21	21	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	18	18	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	16	16	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2886	2886	2886
5°	2816	3333	3879
10°	2552	4855	6431
15°	2166	6338	7765
20°	1761	7339	7914
25°	1467	7675	7753
30°	1236	7717	7738
35°	1091	7583	7938
40°	949	7410	8145
45°	858	7282	8177
50°	785	7165	8042
55°	750	6997	7685
60°	765	6680	7122
65°	792	6204	6349
70°	838	5399	5364
75°	918	4391	4186
80°	983	3034	2820
85°	828	1601	1444

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 8177 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.2	1.2
10°-20°	178.3	5.3
20°-30°	311.9	9.2
30°-40°	401.5	11.9
40°-50°	448.4	13.3
50°-60°	429.5	12.7
60°-70°	340.4	10.1
70°-80°	200.1	5.9
80°-90°	56.2	1.7
90°-100°	72.7	2.2
100°-110°	191.3	5.7
110°-120°	198.3	5.9
120°-130°	159.0	4.7
130°-140°	124.8	3.7
140°-150°	95.8	2.8
150°-160°	69.0	2.0
160°-170°	42.2	1.3
170°-180°	14.3	0.4
0°-30°	530.4	15.7
0°-40°	931.9	27.6
0°-60°	1809.8	53.6
0°-90°	2406.5	71.3
90°-120°	462.3	13.7
90°-150°	842.0	25.0
90°-180°	967.0	28.7
0°-180°	3373.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	311	311	311	311	311	
5°	303	325	366	414	429	28
15°	227	419	706	856	883	63
25°	145	475	841	878	879	67
35°	98	454	792	837	870	61
45°	67	362	700	802	838	52
55°	48	230	594	690	709	44
65°	38	122	441	496	503	38
75°	28	75	242	266	267	29
85°	10	23	60	66	67	11
90°	1	3	8	4	4	2
95°	10	38	125	65	44	11
105°	34	52	211	321	300	37
115°	61	74	169	338	386	60
125°	85	96	154	260	307	76
135°	102	112	149	210	238	79
145°	118	125	147	179	193	74
155°	133	137	147	162	166	61
165°	144	145	147	153	155	40
175°	149	149	148	150	150	14
180°	149	149	149	149	149	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0	311.0
2.5°	311.0	311.0	313.0	314.0	316.0	317.0	319.0	321.0	327.0	328.0	330.0
5°	303.0	307.0	320.0	325.0	339.0	358.0	366.0	379.0	406.0	414.0	419.0
7.5°	291.0	300.0	332.0	340.0	375.0	425.0	446.0	474.0	517.0	538.0	555.0
10°	272.0	291.0	348.0	367.0	424.0	500.0	539.0	578.0	643.0	672.0	683.0
12.5°	251.0	282.0	365.0	391.0	473.0	584.0	631.0	674.0	748.0	787.0	793.0
15°	227.0	269.0	381.0	419.0	525.0	654.0	706.0	759.0	828.0	856.0	863.0
17.5°	206.0	259.0	396.0	436.0	565.0	717.0	770.0	814.0	870.0	889.0	894.0
20°	180.0	243.0	406.0	458.0	607.0	763.0	814.0	848.0	886.0	898.0	900.0
22.5°	161.0	226.0	412.0	466.0	635.0	791.0	834.0	861.0	887.0	891.0	892.0
25°	145.0	207.0	411.0	475.0	659.0	808.0	841.0	861.0	876.0	878.0	878.0
27.5°	130.0	186.0	407.0	477.0	677.0	812.0	838.0	852.0	859.0	863.0	863.0
30°	117.0	166.0	397.0	473.0	685.0	808.0	829.0	836.0	843.0	849.0	852.0
32.5°	107.0	147.0	382.0	465.0	686.0	798.0	813.0	817.0	827.0	841.0	846.0
35°	98.0	128.0	365.0	454.0	680.0	782.0	792.0	796.0	816.0	837.0	844.0
37.5°	89.0	114.0	343.0	435.0	671.0	763.0	770.0	777.0	808.0	833.0	841.0
40°	80.0	102.0	317.0	414.0	657.0	740.0	746.0	757.0	798.0	827.0	835.0
42.5°	73.0	92.0	289.0	392.0	639.0	714.0	723.0	739.0	786.0	817.0	826.0
45°	67.0	82.0	259.0	362.0	616.0	687.0	700.0	722.0	772.0	802.0	810.0
47.5°	61.0	75.0	228.0	331.0	591.0	660.0	677.0	702.0	753.0	782.0	789.0
50°	56.0	68.0	197.0	298.0	564.0	631.0	651.0	677.0	729.0	756.0	765.0
52.5°	52.0	62.0	168.0	265.0	533.0	601.0	624.0	651.0	700.0	726.0	732.0
55°	48.0	57.0	143.0	230.0	501.0	569.0	594.0	620.0	668.0	690.0	694.0
57.5°	46.0	53.0	122.0	197.0	467.0	533.0	561.0	585.0	630.0	647.0	651.0
60°	43.0	50.0	106.0	169.0	430.0	499.0	523.0	547.0	585.0	599.0	602.0
62.5°	40.0	48.0	94.0	142.0	392.0	459.0	483.0	505.0	537.0	547.0	551.0
65°	38.0	46.0	85.0	122.0	353.0	417.0	441.0	460.0	486.0	496.0	498.0
67.5°	36.0	44.0	78.0	105.0	314.0	375.0	393.0	411.0	431.0	441.0	442.0
70°	33.0	42.0	72.0	93.0	274.0	327.0	342.0	361.0	377.0	382.0	385.0
72.5°	31.0	39.0	68.0	84.0	233.0	281.0	295.0	306.0	320.0	325.0	325.0
75°	28.0	35.0	64.0	75.0	191.0	230.0	242.0	253.0	264.0	266.0	263.0
77.5°	25.0	31.0	55.0	63.0	149.0	182.0	192.0	198.0	207.0	209.0	210.0
80°	21.0	27.0	43.0	49.0	108.0	134.0	141.0	146.0	154.0	154.0	156.0
82.5°	16.0	21.0	31.0	35.0	73.0	92.0	98.0	101.0	106.0	106.0	106.0
85°	10.0	13.0	20.0	23.0	44.0	56.0	60.0	61.0	65.0	66.0	66.0
87.5°	5.0	7.0	13.0	14.0	23.0	29.0	29.0	31.0	31.0	30.0	29.0
90°	1.0	1.8	2.6	2.8	4.4	6.5	7.6	6.8	5.1	3.8	3.8
92.5°	4.0	10.8	17.6	19.3	27.2	37.7	42.9	37.6	27.0	19.0	18.2
95°	9.6	22.1	34.6	37.7	66.9	105.8	125.3	111.8	84.8	64.6	62.3
97.5°	16.6	27.6	38.6	41.4	90.1	155.0	187.5	179.0	161.9	149.1	144.7
100°	22.0	32.0	42.0	44.5	98.5	170.6	206.6	207.2	208.5	209.4	204.2
102.5°	26.6	35.9	45.3	47.6	102.4	175.5	212.0	222.9	244.6	260.9	256.4
105°	34.5	42.4	50.2	52.2	105.3	176.0	211.4	235.8	284.5	321.0	318.6
107.5°	42.5	49.8	57.2	59.0	105.8	168.2	199.4	233.4	301.3	352.3	352.9
110°	47.9	54.5	61.1	62.8	105.0	161.3	189.4	227.4	303.3	360.3	362.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	53.2	59.5	65.8	67.4	105.0	155.2	180.3	219.2	296.9	355.2	359.0
115°	61.2	67.0	72.8	74.3	106.0	148.3	169.4	206.8	281.7	337.8	343.1
117.5°	69.1	74.4	79.7	81.0	108.0	143.9	161.9	195.7	263.2	313.9	319.8
120°	73.7	78.7	83.7	84.9	109.5	142.4	158.8	189.7	251.5	297.8	303.5
122.5°	78.2	83.2	88.2	89.5	111.8	141.6	156.5	184.3	239.9	281.6	287.2
125°	85.1	89.7	94.3	95.5	115.0	141.0	154.0	177.6	224.9	260.3	265.5
127.5°	90.7	95.4	100.0	101.2	118.1	140.6	151.9	172.2	212.8	243.2	247.6
130°	93.7	98.7	103.7	105.0	120.4	140.9	151.1	169.2	205.3	232.4	236.4
132.5°	96.9	101.9	106.9	108.1	122.2	141.0	150.4	166.6	198.9	223.2	226.8
135°	101.5	106.0	110.6	111.7	124.2	140.9	149.2	162.7	189.8	210.1	213.2
137.5°	106.2	110.7	115.2	116.3	127.2	141.7	149.0	160.4	183.3	200.5	203.1
140°	110.1	114.2	118.4	119.4	129.0	141.9	148.3	158.2	178.0	192.8	195.2
142.5°	113.1	116.9	120.7	121.7	130.6	142.4	148.3	157.0	174.4	187.4	189.5
145°	117.7	121.0	124.4	125.2	132.6	142.4	147.3	154.4	168.6	179.3	180.9
147.5°	122.3	125.5	128.8	129.6	135.5	143.4	147.3	152.9	164.1	172.5	173.8
150°	125.3	128.2	131.2	131.9	137.0	143.9	147.3	152.0	161.5	168.6	169.6
152.5°	128.4	130.6	132.8	133.4	138.0	144.2	147.3	151.3	159.4	165.5	166.3
155°	133.0	134.6	136.3	136.7	140.2	144.9	147.3	150.5	157.0	161.8	162.3
157.5°	136.4	138.0	139.6	140.0	142.4	145.7	147.3	149.8	154.8	158.5	158.9
160°	138.7	139.9	141.2	141.5	143.4	146.0	147.3	149.4	153.7	156.9	157.1
162.5°	141.0	141.9	142.9	143.1	144.5	146.4	147.3	149.1	152.7	155.4	155.6
165°	143.5	144.3	145.2	145.4	146.0	146.9	147.3	148.6	151.2	153.1	153.3
167.5°	145.8	146.2	146.6	146.7	147.2	147.9	148.3	149.1	150.8	152.1	152.2
170°	147.3	147.7	148.1	148.2	148.2	148.3	148.3	149.1	150.8	152.1	152.1
172.5°	148.1	148.2	148.3	148.3	148.3	148.3	148.3	149.0	150.3	151.3	151.2
175°	149.2	149.2	149.2	149.2	148.9	148.5	148.3	148.7	149.6	150.2	150.2
177.5°	149.2	149.2	149.2	149.2	149.0	148.7	148.5	148.8	149.5	150.0	149.9
180°	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2	149.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	311.0	311.0
2.5°	332.0	330.0
5°	427.0	429.0
7.5°	575.0	574.0
10°	715.0	724.0
12.5°	817.0	819.0
15°	879.0	883.0
17.5°	903.0	904.0
20°	904.0	902.0
22.5°	893.0	891.0
25°	880.0	879.0
27.5°	868.0	869.0
30°	863.0	866.0
32.5°	863.0	868.0
35°	865.0	870.0
37.5°	864.0	870.0
40°	860.0	867.0
42.5°	849.0	854.0
45°	832.0	838.0
47.5°	810.0	814.0
50°	782.0	786.0
52.5°	747.0	748.0
55°	705.0	709.0
57.5°	660.0	661.0
60°	610.0	613.0
62.5°	557.0	557.0
65°	501.0	503.0
67.5°	443.0	448.0
70°	384.0	385.0
72.5°	326.0	326.0
75°	266.0	267.0
77.5°	209.0	209.0
80°	155.0	156.0
82.5°	107.0	109.0
85°	67.0	67.0
87.5°	31.0	28.0
90°	3.8	3.8
92.5°	15.2	12.2
95°	53.2	44.0
97.5°	127.3	109.9
100°	183.5	162.7
102.5°	238.6	220.8
105°	309.1	299.5
107.5°	355.2	357.5
110°	372.7	382.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	374.3	389.6
115°	364.4	385.6
117.5°	343.3	366.9
120°	326.4	349.2
122.5°	309.8	332.4
125°	286.3	307.1
127.5°	265.1	282.6
130°	252.6	268.8
132.5°	241.3	255.8
135°	225.8	238.3
137.5°	213.3	223.6
140°	204.7	214.3
142.5°	197.7	205.9
145°	187.1	193.3
147.5°	178.9	184.1
150°	173.8	178.0
152.5°	169.4	172.6
155°	164.4	166.5
157.5°	160.4	161.9
160°	158.0	158.8
162.5°	156.4	157.2
165°	154.2	155.0
167.5°	152.5	152.9
170°	152.1	152.1
172.5°	150.9	150.6
175°	150.2	150.2
177.5°	149.6	149.2
180°	149.2	149.2



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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	6.41	7.57	7.15	8.34	9.26	19.55	20.71	20.29	21.48	22.40
	3H	7.14	8.18	7.89	8.96	9.92	21.40	22.44	22.15	23.22	24.17
	4H	7.45	8.44	8.22	9.23	10.19	22.05	23.03	22.82	23.82	24.79
	6H	7.72	8.63	8.50	9.43	10.41	22.48	23.39	23.26	24.19	25.17
	8H	7.80	8.66	8.59	9.48	10.47	22.60	23.47	23.40	24.29	25.27
	12H	7.82	8.65	8.63	9.46	10.48	22.67	23.50	23.48	24.31	25.33
4H	2H	13.64	14.62	14.41	15.41	16.38	19.86	20.85	20.64	21.64	22.60
	3H	15.23	16.06	16.02	16.88	17.87	21.92	22.75	22.71	23.57	24.55
	4H	15.34	16.10	16.15	16.92	17.93	22.69	23.44	23.49	24.26	25.28
	6H	15.37	16.03	16.19	16.87	17.89	23.23	23.89	24.05	24.73	25.75
	8H	15.36	15.97	16.18	16.81	17.84	23.40	24.01	24.22	24.85	25.88
	12H	15.33	15.88	16.17	16.74	17.78	23.50	24.05	24.34	24.91	25.95
8H	4H	16.80	17.42	17.63	18.26	19.29	22.78	23.39	23.60	24.23	25.26
	6H	17.06	17.57	17.91	18.45	19.48	23.41	23.92	24.26	24.80	25.83
	8H	17.08	17.53	17.95	18.41	19.46	23.62	24.08	24.49	24.95	26.00
	12H	17.06	17.46	17.93	18.33	19.44	23.77	24.17	24.64	25.04	26.15
12H	4H	16.96	17.51	17.80	18.37	19.41	22.74	23.30	23.59	24.16	25.20
	6H	17.32	17.77	18.18	18.65	19.70	23.39	23.85	24.26	24.73	25.77
	8H	17.40	17.80	18.27	18.67	19.78	23.63	24.03	24.50	24.90	26.00