

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: P936242

Luminaire Tested: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-6-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936242
REPORT IS A COMBINATION OF REPORTS P933445 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-6-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

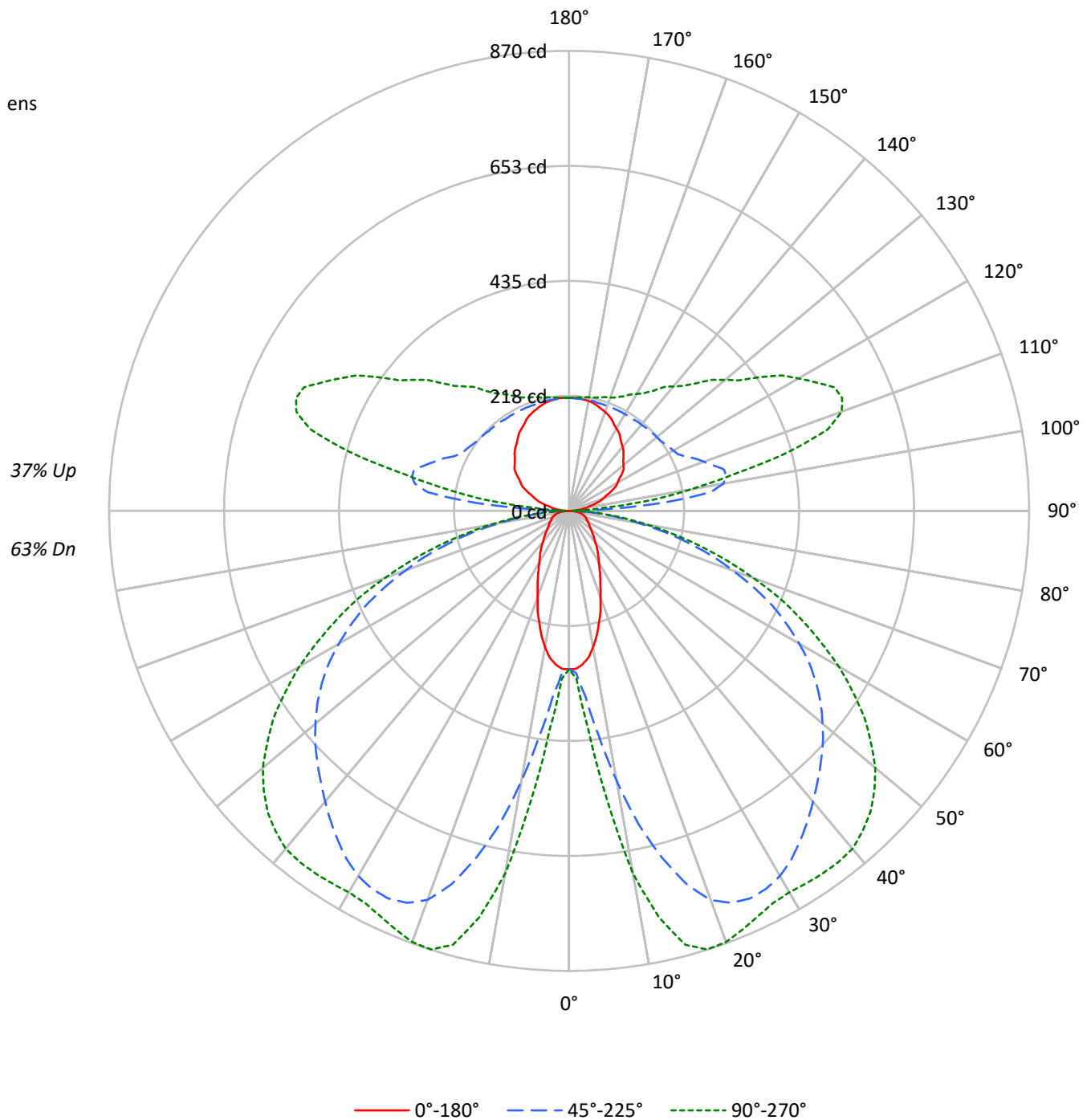
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3702.3 lumens
Efficiency: N/A
Efficacy: 112.2 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): 33
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

TEST NUMBER: P936242
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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	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	63	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°	1850	1850	1850
5°	1807	2138	2487
10°	1638	3116	4123
15°	1392	4070	4979
20°	1133	4715	5075
25°	945	4933	4972
30°	796	4963	4962
35°	704	4879	5090
40°	613	4771	5223
45°	554	4691	5243
50°	508	4619	5157
55°	487	4514	4928
60°	498	4314	4567
65°	516	4011	4070
70°	548	3495	3439
75°	608	2846	2684
80°	657	1972	1808
85°	578	1046	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5243 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	1.0
10°-20°	171.5	4.6
20°-30°	300.0	8.1
30°-40°	386.1	10.4
40°-50°	431.3	11.6
50°-60°	413.1	11.2
60°-70°	327.4	8.8
70°-80°	192.5	5.2
80°-90°	54.3	1.5
90°-100°	104.3	2.8
100°-110°	274.3	7.4
110°-120°	284.4	7.7
120°-130°	228.1	6.2
130°-140°	179.0	4.8
140°-150°	137.4	3.7
150°-160°	99.0	2.7
160°-170°	60.5	1.6
170°-180°	20.5	0.6
0°-30°	510.1	13.8
0°-40°	896.3	24.2
0°-60°	1740.6	47.0
0°-90°	2314.8	62.5
90°-120°	663.1	17.9
90°-150°	1207.6	32.6
90°-180°	1388.0	37.5
0°-180°	3702.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	291	313	352	398	413	27
15°	218	403	679	823	849	61
25°	140	457	809	844	846	64
35°	94	437	762	805	837	59
45°	64	348	673	771	806	50
55°	46	221	571	664	682	42
65°	36	117	424	477	484	36
75°	27	72	233	256	257	28
85°	10	22	58	64	64	10
90°	1	4	11	6	6	2
95°	14	54	180	93	63	15
105°	49	75	303	460	430	52
115°	88	107	243	484	553	87
125°	122	137	221	373	440	108
135°	146	160	214	301	342	113
145°	169	180	211	257	277	106
155°	191	196	211	232	239	88
165°	206	208	211	220	222	58
175°	214	214	213	216	216	20
180°	214	214	214	214	214	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	299.1	299.1	299.1	299.1	299.1	299.1	299.1	299.1	299.1	299.1	299.1
2.5°	299.1	299.1	301.0	302.0	304.0	304.9	306.8	308.8	314.5	315.4	317.4
5°	291.4	295.3	307.8	312.6	326.1	344.3	352.0	364.5	390.5	398.2	403.0
7.5°	279.9	288.6	319.3	327.0	360.7	408.8	428.9	455.9	497.2	517.5	533.8
10°	261.6	279.9	334.7	353.0	407.8	480.9	518.4	555.9	618.5	646.3	656.9
12.5°	241.4	271.3	351.0	376.1	455.0	561.7	606.9	648.3	719.4	756.9	762.7
15°	218.3	258.7	366.4	403.0	505.0	629.0	679.0	730.1	796.4	823.3	830.1
17.5°	198.1	249.1	380.9	419.4	543.4	689.6	740.6	782.9	836.8	855.0	859.8
20°	173.2	233.7	390.5	440.5	583.9	733.9	782.9	815.6	852.2	863.7	865.6
22.5°	154.8	217.3	396.2	448.2	610.7	760.7	802.2	828.1	853.1	856.9	857.9
25°	139.5	199.1	395.3	456.9	633.9	777.1	808.8	828.1	842.5	844.4	844.4
27.5°	125.1	178.9	391.5	458.8	651.2	781.0	806.0	819.5	826.2	830.1	830.1
30°	112.5	159.7	381.8	455.0	658.8	777.1	797.4	804.1	810.8	816.6	819.5
32.5°	102.9	141.4	367.4	447.2	659.8	767.5	782.0	785.8	795.4	808.8	813.7
35°	94.3	123.2	351.0	436.7	654.0	752.1	761.7	765.6	784.8	805.0	811.7
37.5°	85.6	109.7	329.9	418.4	645.3	733.9	740.6	747.4	777.1	801.2	808.8
40°	77.0	98.1	304.9	398.2	631.9	711.7	717.5	728.0	767.5	795.4	803.1
42.5°	70.2	88.4	278.0	377.0	614.5	686.7	695.3	710.7	756.0	785.8	794.4
45°	64.4	78.9	249.1	348.1	592.5	660.7	673.3	694.4	742.5	771.4	779.0
47.5°	58.7	72.1	219.3	318.3	568.5	634.8	651.2	675.2	724.2	752.1	758.8
50°	53.8	65.4	189.5	286.6	542.4	606.9	626.1	651.2	701.2	727.1	735.8
52.5°	50.0	59.7	161.6	254.9	512.6	578.0	600.2	626.1	673.3	698.3	704.0
55°	46.2	54.8	137.5	221.2	481.8	547.2	571.3	596.3	642.5	663.6	667.5
57.5°	44.3	51.0	117.3	189.5	449.1	512.6	539.6	562.6	605.9	622.3	626.1
60°	41.4	48.1	101.9	162.6	413.6	479.9	503.1	526.1	562.6	576.1	579.0
62.5°	38.4	46.2	90.5	136.5	377.0	441.5	464.5	485.7	516.4	526.1	529.9
65°	36.5	44.3	81.8	117.3	339.5	401.0	424.2	442.4	467.4	477.0	479.0
67.5°	34.6	42.4	75.1	101.0	302.0	360.7	378.0	395.3	414.5	424.2	425.1
70°	31.7	40.4	69.2	89.4	263.5	314.5	328.9	347.2	362.6	367.4	370.3
72.5°	29.8	37.5	65.4	80.8	224.1	270.2	283.7	294.3	307.8	312.6	312.6
75°	27.0	33.7	61.6	72.1	183.7	221.2	232.7	243.4	253.9	255.9	252.9
77.5°	24.0	29.8	52.9	60.6	143.3	175.1	184.6	190.5	199.1	201.0	201.9
80°	20.2	26.0	41.4	47.1	103.8	128.9	135.6	140.5	148.1	148.1	150.0
82.5°	15.4	20.2	29.8	33.7	70.2	88.4	94.3	97.1	101.9	101.9	101.9
85°	9.7	12.5	19.2	22.1	42.4	53.8	57.8	58.7	62.5	63.5	63.5
87.5°	4.8	6.7	12.5	13.5	22.1	27.9	27.9	29.8	29.8	28.9	27.9
90°	1.4	2.6	3.7	4.0	6.3	9.4	10.9	9.7	7.3	5.5	5.5
92.5°	5.7	15.5	25.2	27.7	39.0	54.0	61.5	53.8	38.6	27.3	26.2
95°	13.8	31.6	49.5	54.0	95.9	151.7	179.7	160.4	121.6	92.7	89.4
97.5°	23.8	39.6	55.4	59.3	129.2	222.3	268.9	256.6	232.3	213.9	207.7
100°	31.6	45.9	60.2	63.8	141.3	244.7	296.3	297.2	299.0	300.3	292.9
102.5°	38.2	51.6	64.9	68.3	146.9	251.7	304.1	319.7	350.8	374.3	367.8
105°	49.4	60.7	72.0	74.9	151.0	252.4	303.2	338.1	408.0	460.4	457.0
107.5°	60.9	71.4	81.9	84.6	151.7	241.2	286.0	334.8	432.2	505.3	506.1
110°	68.7	78.2	87.7	90.1	150.6	231.3	271.7	326.2	435.1	516.7	520.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	76.3	85.4	94.4	96.7	150.6	222.6	258.6	314.3	425.8	509.4	514.8
115°	87.8	96.2	104.5	106.6	152.0	212.6	242.9	296.6	404.0	484.5	492.2
117.5°	99.2	106.7	114.3	116.2	154.8	206.3	232.2	280.6	377.5	450.2	458.6
120°	105.8	112.9	120.0	121.8	157.2	204.3	227.9	272.1	360.7	427.1	435.4
122.5°	112.2	119.4	126.6	128.4	160.4	203.2	224.5	264.4	344.1	404.0	412.1
125°	122.1	128.7	135.3	136.9	164.9	202.3	221.0	254.8	322.6	373.4	380.9
127.5°	130.1	136.7	143.4	145.1	169.3	201.8	217.9	247.0	305.2	348.8	355.1
130°	134.4	141.6	148.7	150.5	172.6	202.0	216.8	242.7	294.4	333.2	339.1
132.5°	138.9	146.1	153.2	155.0	175.3	202.3	215.8	239.0	285.3	320.0	325.2
135°	145.5	152.0	158.5	160.2	178.1	202.1	214.1	233.5	272.3	301.4	305.9
137.5°	152.3	158.7	165.1	166.8	182.4	203.4	213.8	230.3	263.0	287.6	291.3
140°	157.9	163.8	169.7	171.3	185.1	203.6	212.8	226.9	255.3	276.5	280.0
142.5°	162.2	167.6	173.2	174.5	187.2	204.2	212.8	225.2	250.1	268.8	271.8
145°	168.8	173.5	178.3	179.6	190.2	204.2	211.3	221.5	241.8	257.1	259.3
147.5°	175.4	180.1	184.7	185.9	194.4	205.7	211.3	219.4	235.3	247.4	249.2
150°	179.7	183.9	188.2	189.2	196.6	206.4	211.3	218.1	231.6	241.7	243.3
152.5°	184.2	187.3	190.6	191.3	198.0	206.9	211.3	217.1	228.6	237.3	238.5
155°	190.8	193.2	195.5	196.1	201.2	208.0	211.3	215.9	225.1	232.0	232.7
157.5°	195.6	197.9	200.2	200.8	204.3	209.0	211.3	214.9	222.0	227.4	228.0
160°	199.0	200.8	202.5	203.0	205.8	209.5	211.3	214.4	220.5	225.1	225.4
162.5°	202.2	203.6	204.9	205.3	207.3	210.0	211.3	213.9	219.1	223.0	223.3
165°	205.9	207.0	208.3	208.5	209.5	210.7	211.3	213.1	216.9	219.6	219.9
167.5°	209.1	209.7	210.3	210.5	211.2	212.3	212.8	214.0	216.4	218.2	218.3
170°	211.3	211.9	212.5	212.6	212.7	212.8	212.8	214.0	216.4	218.2	218.2
172.5°	212.5	212.6	212.8	212.8	212.8	212.8	212.8	213.7	215.6	217.1	217.0
175°	214.1	214.1	214.1	214.1	213.6	213.0	212.8	213.3	214.6	215.5	215.5
177.5°	214.1	214.1	214.1	214.1	213.7	213.2	213.0	213.5	214.5	215.2	215.1
180°	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1	214.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	299.1	299.1
2.5°	319.3	317.4
5°	410.7	412.6
7.5°	553.1	552.1
10°	687.7	696.3
12.5°	785.8	787.7
15°	845.5	849.3
17.5°	868.5	869.5
20°	869.5	867.6
22.5°	858.9	856.9
25°	846.4	845.5
27.5°	834.9	835.8
30°	830.1	832.9
32.5°	830.1	834.9
35°	832.0	836.8
37.5°	831.0	836.8
40°	827.1	833.9
42.5°	816.6	821.4
45°	800.2	806.0
47.5°	779.0	782.9
50°	752.1	756.0
52.5°	718.5	719.4
55°	678.0	682.0
57.5°	634.8	635.8
60°	586.7	589.6
62.5°	535.8	535.8
65°	481.8	483.7
67.5°	426.1	430.9
70°	369.4	370.3
72.5°	313.5	313.5
75°	255.9	256.8
77.5°	201.0	201.0
80°	149.1	150.0
82.5°	102.9	104.8
85°	64.4	64.4
87.5°	29.8	27.0
90°	5.5	5.5
92.5°	21.8	17.5
95°	76.2	63.1
97.5°	182.6	157.6
100°	263.1	233.3
102.5°	342.3	316.8
105°	443.3	429.5
107.5°	509.4	512.7
110°	534.6	549.0



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	536.8	558.8
115°	522.6	553.1
117.5°	492.4	526.2
120°	468.2	500.9
122.5°	444.4	476.8
125°	410.6	440.4
127.5°	380.3	405.4
130°	362.3	385.5
132.5°	346.0	366.9
135°	323.8	341.7
137.5°	306.0	320.6
140°	293.6	307.4
142.5°	283.5	295.4
145°	268.3	277.3
147.5°	256.6	264.0
150°	249.3	255.3
152.5°	243.0	247.6
155°	235.7	238.8
157.5°	230.1	232.2
160°	226.6	227.9
162.5°	224.4	225.6
165°	221.2	222.4
167.5°	218.9	219.4
170°	218.2	218.2
172.5°	216.5	216.1
175°	215.5	215.5
177.5°	214.6	214.1
180°	214.1	214.1



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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	4.20	5.24	5.03	6.10	7.18	17.37	18.41	18.20	19.27	20.34
	3H	4.92	5.86	5.77	6.73	7.83	19.22	20.15	20.06	21.02	22.13
	4H	5.23	6.11	6.09	6.99	8.11	19.87	20.75	20.73	21.63	22.74
	6H	5.49	6.31	6.36	7.19	8.32	20.30	21.12	21.18	22.00	23.13
	8H	5.56	6.34	6.44	7.25	8.37	20.43	21.21	21.31	22.11	23.24
	12H	5.59	6.33	6.48	7.23	8.38	20.50	21.24	21.39	22.14	23.29
4H	2H	11.43	12.32	12.30	13.19	14.31	17.66	18.55	18.53	19.43	20.54
	3H	13.02	13.76	13.89	14.67	15.80	19.72	20.46	20.60	21.37	22.50
	4H	13.12	13.80	14.01	14.70	15.86	20.49	21.17	21.38	22.08	23.23
	6H	13.14	13.73	14.05	14.66	15.81	21.04	21.63	21.94	22.56	23.71
	8H	13.12	13.67	14.03	14.60	15.77	21.20	21.75	22.11	22.68	23.85
	12H	13.09	13.58	14.02	14.53	15.70	21.30	21.80	22.23	22.74	23.92
8H	4H	14.58	15.12	15.48	16.05	17.22	20.57	21.12	21.48	22.04	23.21
	6H	14.83	15.28	15.76	16.25	17.42	21.20	21.66	22.14	22.62	23.79
	8H	14.85	15.25	15.79	16.21	17.40	21.42	21.83	22.37	22.78	23.97
	12H	14.82	15.18	15.77	16.13	17.37	21.57	21.93	22.52	22.88	24.12
12H	4H	14.73	15.22	15.66	16.17	17.34	20.53	21.03	21.46	21.97	23.15
	6H	15.09	15.49	16.03	16.45	17.64	21.19	21.59	22.13	22.55	23.74
	8H	15.16	15.52	16.11	16.47	17.71	21.42	21.78	22.37	22.73	23.97