

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: P936261

Luminaire Tested: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936261
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-93050-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

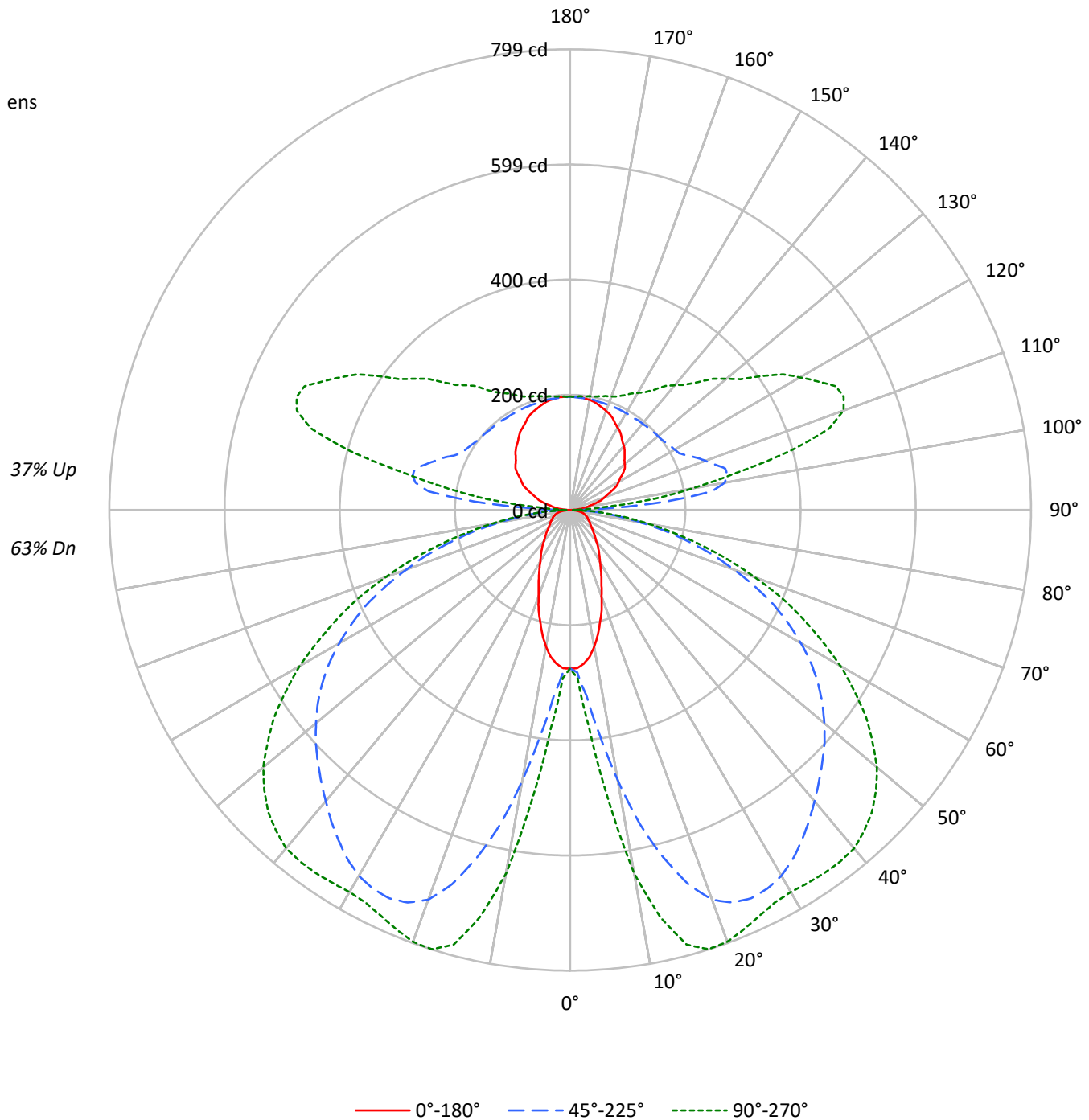
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3400.7 lumens
Efficiency: N/A
Efficacy: 103.1 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 (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	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°	1699	1699	1699
5°	1660	1964	2285
10°	1505	2862	3787
15°	1278	3738	4573
20°	1041	4332	4661
25°	868	4531	4567
30°	732	4559	4558
35°	646	4482	4675
40°	563	4383	4798
45°	509	4309	4816
50°	466	4242	4736
55°	447	4146	4527
60°	457	3963	4195
65°	475	3684	3739
70°	505	3210	3160
75°	558	2615	2465
80°	602	1811	1661
85°	531	959	850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4816 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.5	1.0
10°-20°	157.5	4.6
20°-30°	275.5	8.1
30°-40°	354.7	10.4
40°-50°	396.2	11.6
50°-60°	379.4	11.2
60°-70°	300.7	8.8
70°-80°	176.8	5.2
80°-90°	49.9	1.5
90°-100°	95.8	2.8
100°-110°	252.0	7.4
110°-120°	261.2	7.7
120°-130°	209.6	6.2
130°-140°	164.4	4.8
140°-150°	126.2	3.7
150°-160°	90.9	2.7
160°-170°	55.6	1.6
170°-180°	18.8	0.6
0°-30°	468.6	13.8
0°-40°	823.3	24.2
0°-60°	1598.8	47.0
0°-90°	2126.2	62.5
90°-120°	609.0	17.9
90°-150°	1109.2	32.6
90°-180°	1275.0	37.5
0°-180°	3400.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	275	275	275	275	275	
5°	268	287	323	366	379	25
15°	200	370	624	756	780	56
25°	128	420	743	776	777	59
35°	87	401	700	739	769	54
45°	59	320	618	708	740	46
55°	42	203	525	610	626	39
65°	34	108	390	438	444	33
75°	25	66	214	235	236	26
85°	9	20	53	58	59	9
90°	1	4	10	5	5	2
95°	13	50	165	85	58	14
105°	45	69	278	423	394	48
115°	81	98	223	445	508	80
125°	112	126	203	343	404	100
135°	134	147	197	277	314	103
145°	155	165	194	236	255	97
155°	175	180	194	213	219	81
165°	189	192	194	202	204	53
175°	197	197	195	198	198	19
180°	197	197	197	197	197	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7	274.7
2.5°	274.7	274.7	276.5	277.4	279.2	280.1	281.8	283.6	288.9	289.8	291.5
5°	267.7	271.2	282.7	287.1	299.5	316.3	323.3	334.8	358.7	365.7	370.2
7.5°	257.1	265.1	293.3	300.4	331.3	375.5	394.0	418.8	456.7	475.3	490.4
10°	240.3	257.1	307.4	324.3	374.6	441.7	476.2	510.6	568.1	593.6	603.4
12.5°	221.8	249.2	322.4	345.4	417.9	515.9	557.5	595.5	660.8	695.3	700.5
15°	200.5	237.7	336.6	370.2	463.8	577.7	623.7	670.6	731.5	756.2	762.5
17.5°	182.0	228.8	349.8	385.2	499.1	633.4	680.2	719.2	768.6	785.4	789.8
20°	159.1	214.7	358.7	404.6	536.3	674.1	719.2	749.2	782.7	793.4	795.1
22.5°	142.2	199.6	364.0	411.7	561.0	698.8	736.8	760.6	783.6	787.1	788.0
25°	128.1	182.9	363.1	419.7	582.2	713.8	743.0	760.6	773.9	775.6	775.6
27.5°	114.9	164.3	359.6	421.4	598.1	717.4	740.3	752.7	758.9	762.5	762.5
30°	103.4	146.7	350.7	417.9	605.1	713.8	732.4	738.6	744.7	750.1	752.7
32.5°	94.5	129.9	337.4	410.8	606.0	705.0	718.3	721.8	730.6	743.0	747.4
35°	86.6	113.1	322.4	401.1	600.8	690.9	699.7	703.3	720.9	739.4	745.6
37.5°	78.6	100.7	303.0	384.3	592.8	674.1	680.2	686.5	713.8	735.9	743.0
40°	70.7	90.1	280.1	365.7	580.5	653.7	659.1	668.7	705.0	730.6	737.7
42.5°	64.5	81.2	255.3	346.3	564.5	630.8	638.7	652.8	694.4	721.8	729.7
45°	59.2	72.5	228.8	319.8	544.2	606.9	618.4	637.8	682.0	708.5	715.6
47.5°	53.9	66.2	201.4	292.4	522.1	583.1	598.1	620.2	665.2	690.9	697.0
50°	49.4	60.1	174.1	263.2	498.3	557.5	575.1	598.1	644.1	667.9	675.9
52.5°	45.9	54.8	148.4	234.2	470.9	530.9	551.3	575.1	618.4	641.4	646.7
55°	42.4	50.3	126.3	203.2	442.6	502.7	524.8	547.7	590.1	609.5	613.1
57.5°	40.7	46.8	107.8	174.1	412.5	470.9	495.6	516.8	556.6	571.6	575.1
60°	38.0	44.2	93.6	149.3	379.9	440.8	462.1	483.2	516.8	529.2	531.8
62.5°	35.3	42.4	83.1	125.4	346.3	405.5	426.7	446.2	474.4	483.2	486.8
65°	33.6	40.7	75.1	107.8	311.9	368.4	389.6	406.4	429.3	438.2	439.9
67.5°	31.8	38.9	68.9	92.7	277.4	331.3	347.2	363.1	380.7	389.6	390.5
70°	29.2	37.1	63.6	82.1	242.1	288.9	302.1	318.9	333.1	337.4	340.2
72.5°	27.4	34.4	60.1	74.2	205.9	248.2	260.6	270.3	282.7	287.1	287.1
75°	24.8	30.9	56.6	66.2	168.7	203.2	213.8	223.5	233.2	235.0	232.3
77.5°	22.0	27.4	48.6	55.7	131.7	160.8	169.6	175.0	182.9	184.6	185.5
80°	18.5	23.9	38.0	43.3	95.4	118.4	124.5	129.0	136.0	136.0	137.8
82.5°	14.1	18.5	27.4	30.9	64.5	81.2	86.6	89.2	93.6	93.6	93.6
85°	8.9	11.5	17.7	20.3	38.9	49.4	53.0	53.9	57.4	58.3	58.3
87.5°	4.4	6.1	11.5	12.4	20.3	25.6	25.6	27.4	27.4	26.5	25.6
90°	1.3	2.4	3.4	3.7	5.8	8.6	10.0	8.9	6.7	5.0	5.0
92.5°	5.3	14.2	23.2	25.5	35.8	49.6	56.5	49.4	35.5	25.0	24.1
95°	12.6	29.1	45.5	49.6	88.1	139.4	165.0	147.3	111.7	85.1	82.1
97.5°	21.9	36.4	50.9	54.5	118.7	204.2	247.0	235.7	213.3	196.5	190.8
100°	29.1	42.2	55.3	58.6	129.8	224.8	272.2	273.0	274.6	275.9	269.0
102.5°	35.1	47.4	59.6	62.7	134.9	231.2	279.3	293.6	322.2	343.8	337.9
105°	45.4	55.8	66.1	68.8	138.7	231.9	278.5	310.6	374.8	422.9	419.7
107.5°	55.9	65.6	75.3	77.7	139.4	221.6	262.7	307.5	397.0	464.1	464.9
110°	63.1	71.8	80.5	82.7	138.3	212.5	249.5	299.6	399.6	474.6	477.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	70.1	78.4	86.7	88.8	138.3	204.5	237.5	288.7	391.1	467.9	472.9
115°	80.6	88.4	96.0	97.9	139.6	195.2	223.1	272.4	371.1	445.0	452.1
117.5°	91.1	98.0	105.0	106.7	142.2	189.5	213.3	257.8	346.8	413.5	421.2
120°	97.1	103.7	110.2	111.9	144.4	187.7	209.3	250.0	331.3	392.3	399.9
122.5°	103.0	109.7	116.3	118.0	147.4	186.6	206.2	242.9	316.1	371.1	378.5
125°	112.2	118.2	124.3	125.8	151.5	185.8	203.0	234.1	296.3	343.0	349.8
127.5°	119.5	125.6	131.7	133.2	155.5	185.3	200.2	226.9	280.4	320.4	326.2
130°	123.5	130.1	136.6	138.2	158.5	185.6	199.1	222.9	270.4	306.1	311.4
132.5°	127.6	134.2	140.7	142.4	161.0	185.8	198.2	219.5	262.1	294.0	298.7
135°	133.7	139.6	145.6	147.1	163.6	185.7	196.7	214.5	250.1	276.8	281.0
137.5°	139.9	145.8	151.7	153.2	167.6	186.8	196.4	211.5	241.6	264.2	267.5
140°	145.0	150.5	155.9	157.3	170.0	187.0	195.4	208.4	234.5	254.0	257.2
142.5°	149.0	154.0	159.1	160.3	172.0	187.6	195.4	206.8	229.8	246.9	249.6
145°	155.0	159.4	163.8	164.9	174.7	187.6	194.1	203.4	222.1	236.2	238.2
147.5°	161.1	165.4	169.7	170.7	178.6	188.9	194.1	201.5	216.1	227.2	228.9
150°	165.0	168.9	172.8	173.8	180.6	189.6	194.1	200.3	212.7	222.0	223.4
152.5°	169.2	172.1	175.0	175.7	181.9	190.1	194.1	199.4	210.0	218.0	219.0
155°	175.2	177.4	179.6	180.1	184.8	191.0	194.1	198.3	206.8	213.1	213.8
157.5°	179.7	181.8	183.9	184.4	187.7	192.0	194.1	197.4	203.9	208.9	209.4
160°	182.8	184.4	186.0	186.5	189.0	192.4	194.1	196.9	202.5	206.8	207.0
162.5°	185.8	187.0	188.2	188.6	190.4	192.9	194.1	196.5	201.2	204.8	205.1
165°	189.1	190.2	191.3	191.6	192.4	193.6	194.1	195.8	199.2	201.7	202.0
167.5°	192.1	192.6	193.1	193.3	194.0	195.0	195.4	196.6	198.8	200.4	200.5
170°	194.1	194.6	195.2	195.2	195.3	195.4	195.4	196.6	198.8	200.4	200.4
172.5°	195.2	195.2	195.4	195.4	195.4	195.4	195.4	196.3	198.1	199.4	199.3
175°	196.7	196.7	196.7	196.7	196.2	195.7	195.4	195.9	197.1	198.0	198.0
177.5°	196.7	196.7	196.7	196.7	196.3	195.9	195.7	196.1	197.0	197.7	197.6
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	274.7	274.7
2.5°	293.3	291.5
5°	377.2	379.0
7.5°	508.0	507.1
10°	631.7	639.6
12.5°	721.8	723.5
15°	776.6	780.1
17.5°	797.8	798.6
20°	798.6	796.9
22.5°	788.9	787.1
25°	777.5	776.6
27.5°	766.8	767.7
30°	762.5	765.1
32.5°	762.5	766.8
35°	764.2	768.6
37.5°	763.3	768.6
40°	759.7	766.0
42.5°	750.1	754.5
45°	735.1	740.3
47.5°	715.6	719.2
50°	690.9	694.4
52.5°	660.0	660.8
55°	622.8	626.4
57.5°	583.1	584.0
60°	538.9	541.6
62.5°	492.1	492.1
65°	442.6	444.3
67.5°	391.4	395.8
70°	339.3	340.2
72.5°	288.0	288.0
75°	235.0	235.9
77.5°	184.6	184.6
80°	136.9	137.8
82.5°	94.5	96.3
85°	59.2	59.2
87.5°	27.4	24.8
90°	5.0	5.0
92.5°	20.0	16.1
95°	70.0	58.0
97.5°	167.8	144.7
100°	241.7	214.3
102.5°	314.4	291.0
105°	407.2	394.5
107.5°	467.9	470.9
110°	491.1	504.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	493.1	513.3
115°	480.0	508.0
117.5°	452.3	483.3
120°	430.0	460.1
122.5°	408.2	437.9
125°	377.1	404.5
127.5°	349.3	372.4
130°	332.8	354.1
132.5°	317.9	337.0
135°	297.4	313.9
137.5°	281.1	294.5
140°	269.7	282.4
142.5°	260.4	271.3
145°	246.5	254.7
147.5°	235.7	242.5
150°	229.0	234.5
152.5°	223.2	227.4
155°	216.5	219.3
157.5°	211.3	213.3
160°	208.2	209.3
162.5°	206.1	207.2
165°	203.2	204.3
167.5°	201.0	201.5
170°	200.4	200.4
172.5°	198.8	198.5
175°	198.0	198.0
177.5°	197.1	196.7
180°	196.7	196.7



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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	3.91	4.95	4.74	5.81	6.89	17.07	18.11	17.91	18.97	20.05
	3H	4.63	5.56	5.47	6.43	7.54	18.92	19.86	19.77	20.73	21.83
	4H	4.93	5.82	5.80	6.70	7.81	19.57	20.46	20.43	21.33	22.45
	6H	5.19	6.01	6.07	6.90	8.02	20.01	20.82	20.88	21.71	22.84
	8H	5.27	6.05	6.15	6.95	8.08	20.13	20.91	21.01	21.81	22.94
	12H	5.29	6.03	6.18	6.93	8.09	20.20	20.95	21.09	21.84	23.00
4H	2H	11.14	12.02	12.00	12.90	14.01	17.37	18.25	18.24	19.13	20.25
	3H	12.72	13.46	13.60	14.37	15.50	19.43	20.17	20.30	21.08	22.21
	4H	12.82	13.50	13.71	14.41	15.56	20.20	20.88	21.09	21.78	22.94
	6H	12.85	13.43	13.75	14.36	15.52	20.74	21.33	21.65	22.26	23.42
	8H	12.83	13.38	13.74	14.30	15.47	20.91	21.46	21.82	22.38	23.55
	12H	12.79	13.29	13.72	14.23	15.41	21.01	21.50	21.94	22.45	23.62
8H	4H	14.28	14.83	15.19	15.75	16.93	20.27	20.82	21.18	21.75	22.92
	6H	14.53	14.99	15.47	15.95	17.12	20.91	21.36	21.84	22.33	23.50
	8H	14.55	14.96	15.50	15.91	17.10	21.13	21.53	22.07	22.49	23.68
	12H	14.53	14.89	15.48	15.84	17.07	21.28	21.63	22.23	22.58	23.82
12H	4H	14.43	14.93	15.36	15.87	17.05	20.24	20.73	21.16	21.67	22.85
	6H	14.79	15.20	15.74	16.15	17.34	20.89	21.30	21.84	22.25	23.44
	8H	14.87	15.23	15.82	16.18	17.41	21.13	21.48	22.08	22.43	23.67