

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: P936260

Luminaire Tested: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936260
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-93050-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

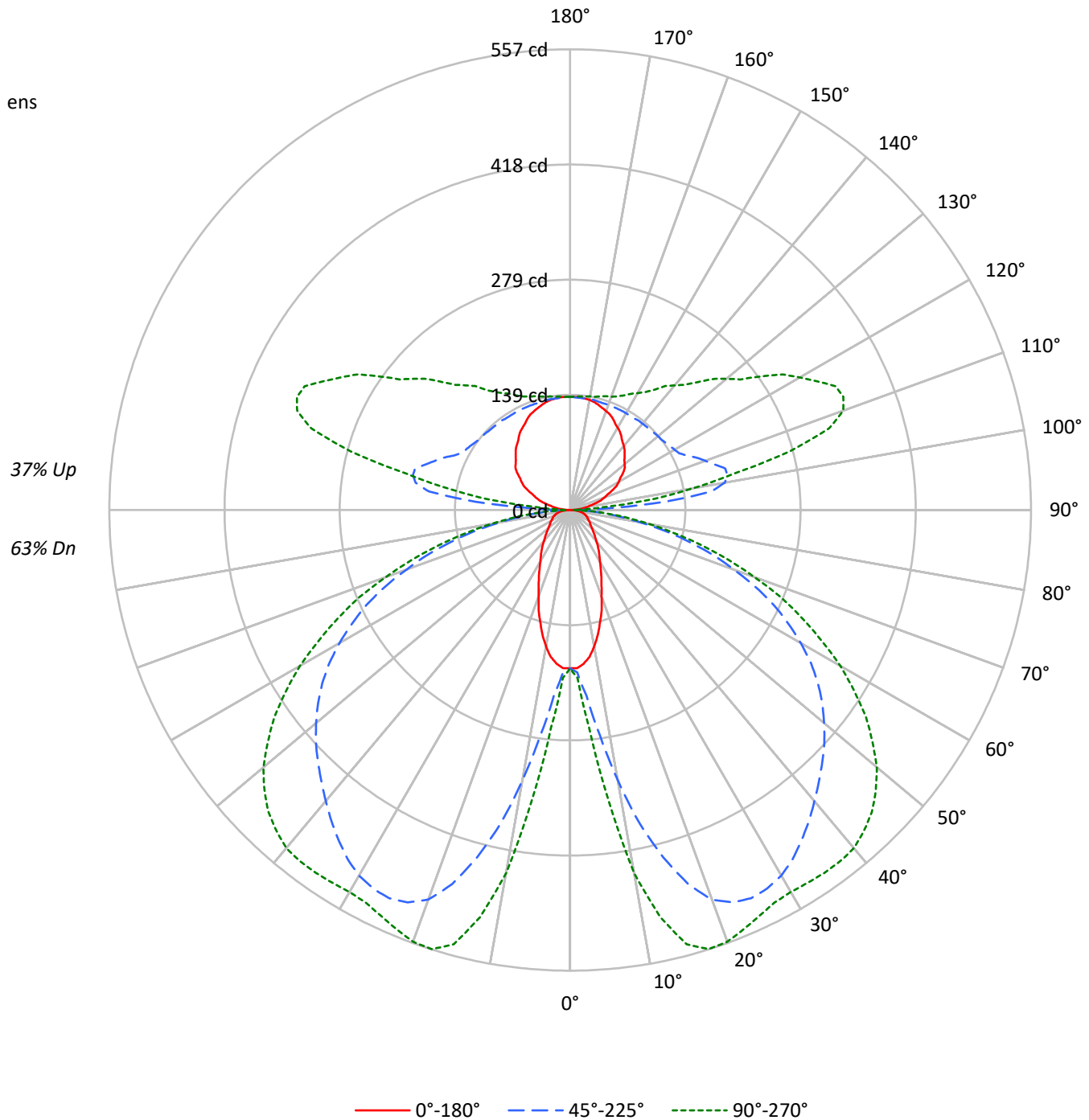
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2369.5 lumens
Efficiency: N/A
Efficacy: 107.7 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





TEST NUMBER: P936260

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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	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°	1776	1776	1776
5°	1734	2052	2388
10°	1571	2989	3959
15°	1334	3902	4780
20°	1085	4519	4872
25°	904	4725	4774
30°	760	4750	4765
35°	671	4669	4887
40°	585	4562	5014
45°	527	4482	5034
50°	484	4411	4951
55°	461	4308	4732
60°	470	4113	4385
65°	488	3819	3908
70°	515	3323	3302
75°	567	2702	2577
80°	604	1868	1737
85°	505	988	888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5034 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.8	1.0
10°-20°	109.8	4.6
20°-30°	192.0	8.1
30°-40°	247.2	10.4
40°-50°	276.1	11.7
50°-60°	264.4	11.2
60°-70°	209.5	8.8
70°-80°	123.2	5.2
80°-90°	34.8	1.5
90°-100°	66.8	2.8
100°-110°	175.5	7.4
110°-120°	182.0	7.7
120°-130°	146.0	6.2
130°-140°	114.5	4.8
140°-150°	87.9	3.7
150°-160°	63.3	2.7
160°-170°	38.7	1.6
170°-180°	13.1	0.6
0°-30°	326.5	13.8
0°-40°	573.7	24.2
0°-60°	1114.2	47.0
0°-90°	1481.7	62.5
90°-120°	424.3	17.9
90°-150°	772.7	32.6
90°-180°	888.0	37.5
0°-180°	2369.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	191	191	191	191	191	
5°	187	200	225	255	264	17
15°	140	258	435	527	544	39
25°	89	292	518	540	541	41
35°	60	280	488	515	536	38
45°	41	223	431	494	516	32
55°	30	142	366	425	436	27
65°	23	75	272	305	310	23
75°	17	46	149	164	164	18
85°	6	14	37	41	41	6
90°	1	3	7	4	4	1
95°	9	35	115	59	40	10
105°	32	48	194	295	275	34
115°	56	68	156	310	354	55
125°	78	88	141	239	282	69
135°	93	102	137	193	219	72
145°	108	115	135	164	177	68
155°	122	125	135	148	153	56
165°	132	133	135	140	142	37
175°	137	137	136	138	138	13
180°	137	137	137	137	137	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4	191.4
2.5°	191.4	191.4	192.7	193.3	194.6	195.2	196.4	197.6	201.3	201.9	203.2
5°	186.6	189.0	197.0	200.1	208.7	220.4	225.3	233.4	250.0	254.8	258.0
7.5°	179.1	184.7	204.4	209.3	230.9	261.6	274.6	291.8	318.3	331.2	341.7
10°	167.5	179.1	214.3	225.9	261.0	307.8	331.8	355.9	395.9	413.7	420.5
12.5°	154.5	173.6	224.7	240.7	291.2	359.6	388.5	415.0	460.5	484.5	488.2
15°	139.8	165.6	234.6	258.0	323.2	402.6	434.6	467.3	509.8	526.9	531.3
17.5°	126.8	159.5	243.8	268.4	347.8	441.4	474.1	501.2	535.6	547.3	550.3
20°	110.9	149.6	250.0	282.0	373.7	469.8	501.2	522.1	545.5	552.8	554.1
22.5°	99.1	139.1	253.7	286.9	390.9	486.9	513.5	530.1	546.0	548.5	549.1
25°	89.3	127.5	253.0	292.5	405.7	497.4	517.8	530.1	539.3	540.5	540.5
27.5°	80.0	114.5	250.5	293.7	416.8	499.9	515.9	524.6	528.9	531.3	531.3
30°	72.0	102.2	244.4	291.2	421.7	497.4	510.3	514.6	519.0	522.7	524.6
32.5°	65.9	90.5	235.2	286.2	422.3	491.2	500.5	503.0	509.1	517.8	520.8
35°	60.3	78.8	224.7	279.5	418.7	481.4	487.6	490.0	502.3	515.3	519.6
37.5°	54.8	70.2	211.2	267.8	413.1	469.8	474.1	478.4	497.4	512.8	517.8
40°	49.3	62.8	195.2	254.8	404.5	455.5	459.3	466.0	491.2	509.1	514.1
42.5°	45.0	56.6	177.9	241.4	393.4	439.6	445.1	455.0	483.9	503.0	508.5
45°	41.2	50.5	159.5	222.8	379.2	423.0	430.9	444.5	475.3	493.7	498.7
47.5°	37.5	46.2	140.4	203.8	363.9	406.4	416.8	432.1	463.6	481.4	485.7
50°	34.5	41.8	121.3	183.4	347.3	388.5	400.8	416.8	448.8	465.5	471.0
52.5°	32.0	38.2	103.4	163.2	328.2	370.0	384.1	400.8	430.9	446.9	450.7
55°	29.5	35.1	88.0	141.6	308.4	350.3	365.7	381.7	411.2	424.8	427.3
57.5°	28.4	32.7	75.1	121.3	287.5	328.2	345.3	360.1	387.8	398.3	400.8
60°	26.4	30.7	65.2	104.1	264.8	307.2	322.0	336.8	360.1	368.7	370.7
62.5°	24.6	29.5	57.9	87.5	241.4	282.6	297.3	310.9	330.6	336.8	339.2
65°	23.4	28.4	52.3	75.1	217.3	256.7	271.5	283.2	299.2	305.3	306.6
67.5°	22.2	27.1	48.0	64.6	193.3	230.9	241.9	253.0	265.3	271.5	272.1
70°	20.3	25.9	44.3	57.3	168.7	201.3	210.5	222.3	232.1	235.2	237.0
72.5°	19.1	24.0	41.8	51.8	143.4	173.0	181.6	188.4	197.0	200.1	200.1
75°	17.3	21.6	39.4	46.2	117.6	141.6	148.9	155.7	162.5	163.7	161.9
77.5°	15.4	19.1	33.9	38.8	91.8	112.1	118.2	121.9	127.5	128.7	129.3
80°	12.9	16.6	26.4	30.2	66.5	82.5	86.8	89.8	94.8	94.8	96.1
82.5°	9.8	12.9	19.1	21.6	45.0	56.6	60.3	62.2	65.2	65.2	65.2
85°	6.1	8.0	12.3	14.1	27.1	34.5	37.0	37.5	40.0	40.7	40.7
87.5°	3.1	4.3	8.0	8.6	14.1	17.9	17.9	19.1	19.1	18.4	17.9
90°	0.9	1.7	2.4	2.6	4.0	6.0	7.0	6.2	4.7	3.5	3.5
92.5°	3.7	9.9	16.2	17.7	25.0	34.6	39.4	34.5	24.8	17.4	16.7
95°	8.8	20.3	31.8	34.6	61.4	97.1	115.0	102.6	77.8	59.3	57.2
97.5°	15.2	25.3	35.4	38.0	82.7	142.2	172.1	164.3	148.6	136.8	132.8
100°	20.2	29.4	38.5	40.8	90.4	156.6	189.6	190.1	191.3	192.2	187.4
102.5°	24.4	32.9	41.6	43.7	94.0	161.1	194.6	204.6	224.5	239.4	235.3
105°	31.7	38.9	46.1	47.9	96.6	161.5	194.0	216.4	261.1	294.6	292.4
107.5°	39.0	45.7	52.5	54.1	97.1	154.4	183.0	214.2	276.5	323.3	323.9
110°	44.0	50.0	56.1	57.6	96.4	148.0	173.8	208.7	278.3	330.6	332.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	48.8	54.6	60.4	61.9	96.4	142.4	165.5	201.2	272.5	326.0	329.5
115°	56.2	61.5	66.8	68.2	97.3	136.1	155.5	189.8	258.5	310.0	314.9
117.5°	63.4	68.3	73.1	74.3	99.1	132.1	148.6	179.6	241.5	288.1	293.5
120°	67.6	72.2	76.8	77.9	100.5	130.7	145.7	174.1	230.8	273.3	278.5
122.5°	71.8	76.4	80.9	82.1	102.6	129.9	143.6	169.1	220.2	258.4	263.6
125°	78.1	82.3	86.5	87.6	105.5	129.4	141.3	163.0	206.4	238.9	243.6
127.5°	83.2	87.5	91.8	92.9	108.4	129.0	139.4	158.0	195.3	223.2	227.2
130°	86.0	90.6	95.2	96.4	110.5	129.3	138.7	155.3	188.4	213.3	216.9
132.5°	88.9	93.5	98.1	99.2	112.1	129.4	138.0	152.9	182.5	204.8	208.1
135°	93.1	97.3	101.5	102.5	114.0	129.3	136.9	149.3	174.2	192.8	195.7
137.5°	97.5	101.6	105.7	106.7	116.7	130.0	136.7	147.2	168.2	184.0	186.4
140°	101.0	104.8	108.7	109.6	118.4	130.2	136.1	145.2	163.3	176.9	179.1
142.5°	103.8	107.3	110.8	111.7	119.9	130.7	136.1	144.1	160.0	172.0	173.9
145°	108.0	111.0	114.2	114.9	121.7	130.7	135.2	141.7	154.7	164.5	166.0
147.5°	112.2	115.2	118.2	118.9	124.3	131.6	135.2	140.3	150.6	158.3	159.5
150°	115.0	117.6	120.4	121.0	125.7	132.1	135.2	139.5	148.2	154.7	155.6
152.5°	117.8	119.9	121.9	122.4	126.6	132.3	135.2	138.8	146.3	151.9	152.6
155°	122.1	123.5	125.1	125.4	128.7	133.0	135.2	138.1	144.1	148.5	148.9
157.5°	125.2	126.6	128.1	128.5	130.7	133.7	135.2	137.5	142.1	145.5	145.8
160°	127.3	128.4	129.6	129.9	131.6	134.0	135.2	137.1	141.0	144.0	144.2
162.5°	129.4	130.2	131.1	131.3	132.6	134.4	135.2	136.8	140.1	142.6	142.8
165°	131.7	132.4	133.2	133.4	134.0	134.8	135.2	136.4	138.8	140.5	140.7
167.5°	133.8	134.2	134.5	134.6	135.1	135.7	136.1	136.8	138.4	139.6	139.7
170°	135.2	135.5	135.9	136.0	136.0	136.1	136.1	136.8	138.4	139.6	139.6
172.5°	135.9	136.0	136.1	136.1	136.1	136.1	136.1	136.7	137.9	138.8	138.8
175°	136.9	136.9	136.9	136.9	136.6	136.3	136.1	136.5	137.3	137.8	137.8
177.5°	136.9	136.9	136.9	136.9	136.7	136.5	136.3	136.6	137.2	137.7	137.6
180°	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9	136.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	191.4	191.4
2.5°	204.4	203.2
5°	262.9	264.1
7.5°	354.0	353.4
10°	440.2	445.7
12.5°	503.0	504.2
15°	541.2	543.6
17.5°	555.9	556.6
20°	556.6	555.3
22.5°	549.8	548.5
25°	541.8	541.2
27.5°	534.4	535.0
30°	531.3	533.2
32.5°	531.3	534.4
35°	532.5	535.6
37.5°	531.9	535.6
40°	529.4	533.7
42.5°	522.7	525.7
45°	512.2	515.9
47.5°	498.7	501.2
50°	481.4	483.9
52.5°	459.9	460.5
55°	434.1	436.5
57.5°	406.4	406.9
60°	375.5	377.4
62.5°	342.9	342.9
65°	308.4	309.6
67.5°	272.7	275.8
70°	236.4	237.0
72.5°	200.7	200.7
75°	163.7	164.4
77.5°	128.7	128.7
80°	95.4	96.1
82.5°	65.9	67.1
85°	41.2	41.2
87.5°	19.1	17.3
90°	3.5	3.5
92.5°	13.9	11.2
95°	48.8	40.4
97.5°	116.8	100.9
100°	168.4	149.3
102.5°	219.0	202.6
105°	283.7	274.8
107.5°	326.0	328.1
110°	342.0	351.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	343.5	357.5
115°	334.4	353.9
117.5°	315.0	336.7
120°	299.5	320.5
122.5°	284.3	305.0
125°	262.7	281.8
127.5°	243.3	259.3
130°	231.8	246.7
132.5°	221.4	234.7
135°	207.2	218.7
137.5°	195.7	205.2
140°	187.9	196.7
142.5°	181.4	189.0
145°	171.7	177.4
147.5°	164.2	168.9
150°	159.5	163.3
152.5°	155.5	158.4
155°	150.9	152.8
157.5°	147.2	148.6
160°	145.0	145.7
162.5°	143.5	144.3
165°	141.5	142.2
167.5°	139.9	140.3
170°	139.6	139.6
172.5°	138.5	138.2
175°	137.8	137.8
177.5°	137.3	136.9
180°	136.9	136.9



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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	4.05	5.09	4.89	5.95	7.03	17.19	18.23	18.03	19.09	20.17
	3H	4.77	5.71	5.62	6.58	7.68	19.03	19.96	19.87	20.84	21.94
	4H	5.08	5.97	5.94	6.84	7.96	19.67	20.56	20.53	21.43	22.55
	6H	5.34	6.16	6.22	7.04	8.17	20.10	20.92	20.97	21.80	22.93
	8H	5.41	6.19	6.30	7.10	8.22	20.22	21.00	21.10	21.90	23.03
	12H	5.44	6.18	6.33	7.08	8.23	20.29	21.03	21.18	21.93	23.08
4H	2H	11.27	12.15	12.13	13.03	14.14	17.49	18.37	18.36	19.25	20.37
	3H	12.85	13.59	13.73	14.50	15.63	19.54	20.28	20.41	21.19	22.32
	4H	12.95	13.63	13.85	14.54	15.69	20.30	20.98	21.19	21.88	23.04
	6H	12.98	13.56	13.88	14.49	15.65	20.84	21.43	21.74	22.36	23.51
	8H	12.96	13.51	13.87	14.43	15.60	21.00	21.55	21.91	22.47	23.64
	12H	12.92	13.42	13.85	14.36	15.54	21.09	21.59	22.02	22.53	23.71
8H	4H	14.40	14.95	15.31	15.88	17.05	20.38	20.93	21.29	21.85	23.02
	6H	14.65	15.11	15.59	16.08	17.25	21.00	21.46	21.94	22.42	23.59
	8H	14.68	15.08	15.62	16.04	17.23	21.22	21.62	22.16	22.58	23.77
	12H	14.65	15.01	15.60	15.96	17.20	21.36	21.72	22.31	22.67	23.90
12H	4H	14.55	15.05	15.48	15.99	17.17	20.34	20.83	21.27	21.78	22.95
	6H	14.91	15.32	15.86	16.27	17.46	20.99	21.39	21.93	22.35	23.54
	8H	14.99	15.35	15.94	16.30	17.53	21.22	21.58	22.17	22.53	23.76