

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: P936357

Luminaire Tested: SQ4-FB-025U-075D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936357
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-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

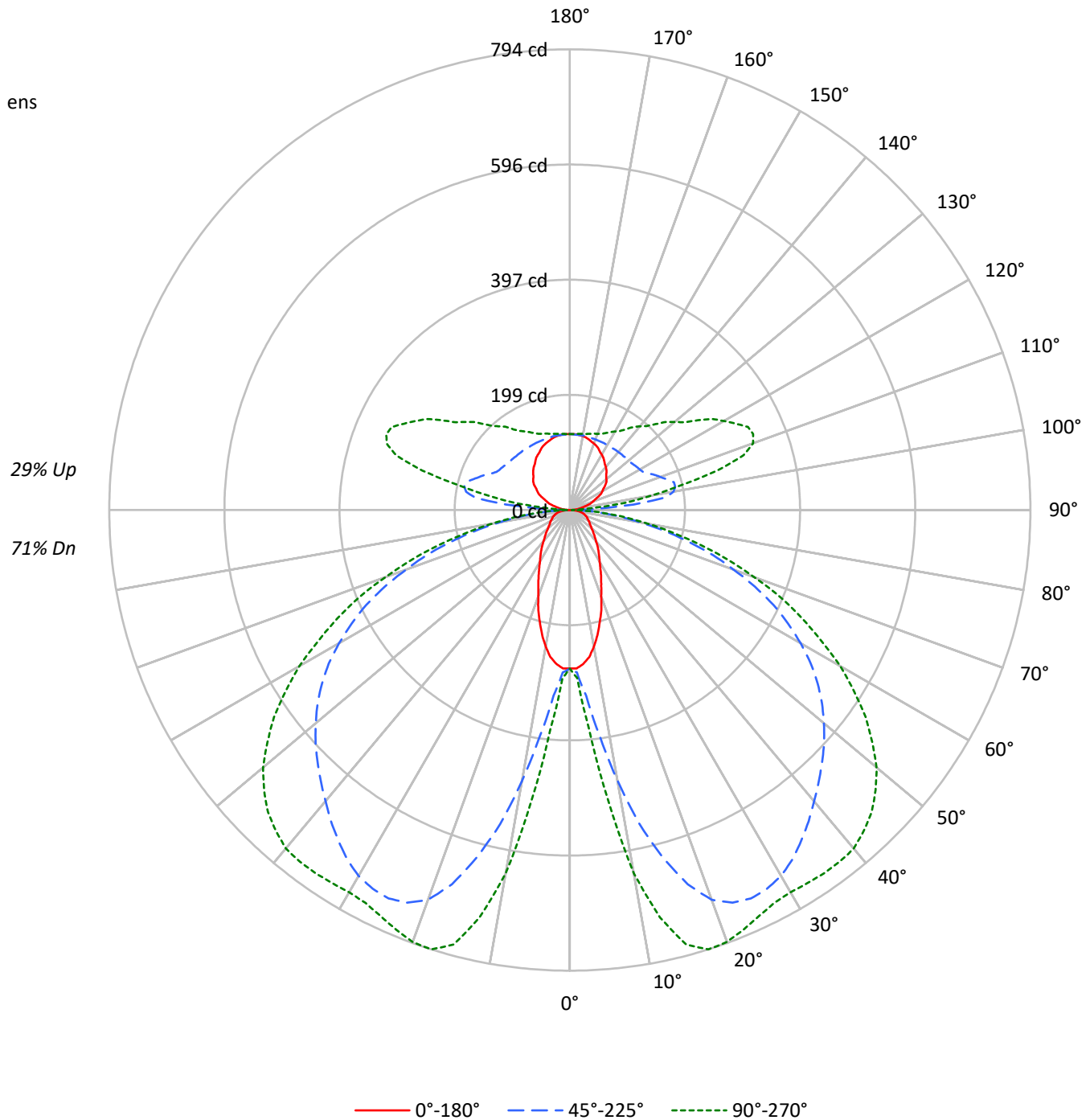
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2963.3 lumens
Efficiency: N/A
Efficacy: 98.8 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	0
RCR																		
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2535	2535	2535
5°	2473	2928	3407
10°	2241	4264	5648
15°	1903	5567	6820
20°	1547	6446	6950
25°	1289	6741	6809
30°	1086	6778	6797
35°	959	6660	6972
40°	834	6508	7154
45°	753	6395	7182
50°	690	6293	7063
55°	659	6145	6750
60°	672	5868	6256
65°	696	5448	5577
70°	736	4743	4710
75°	807	3856	3676
80°	861	2664	2477
85°	729	1407	1267

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7182 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.2
10°-20°	156.6	5.3
20°-30°	273.9	9.2
30°-40°	352.6	11.9
40°-50°	393.8	13.3
50°-60°	377.2	12.7
60°-70°	298.9	10.1
70°-80°	175.8	5.9
80°-90°	49.3	1.7
90°-100°	63.9	2.2
100°-110°	168.0	5.7
110°-120°	174.2	5.9
120°-130°	139.7	4.7
130°-140°	109.6	3.7
140°-150°	84.1	2.8
150°-160°	60.6	2.0
160°-170°	37.1	1.3
170°-180°	12.5	0.4
0°-30°	465.8	15.7
0°-40°	818.5	27.6
0°-60°	1589.5	53.6
0°-90°	2113.6	71.3
90°-120°	406.0	13.7
90°-150°	739.5	25.0
90°-180°	850.0	28.7
0°-180°	2963.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	273	273	273	273	273	
5°	266	285	322	364	377	25
15°	199	368	620	752	776	55
25°	127	417	739	771	772	59
35°	86	399	696	735	764	54
45°	59	318	615	704	736	46
55°	42	202	522	606	623	38
65°	33	107	387	436	442	33
75°	25	66	212	234	234	26
85°	9	20	53	58	59	9
90°	1	2	7	3	3	1
95°	8	33	110	57	39	9
105°	30	46	186	282	263	32
115°	54	65	149	297	339	53
125°	75	84	135	229	270	66
135°	89	98	131	184	209	69
145°	103	110	129	158	170	65
155°	117	120	129	142	146	54
165°	126	128	129	134	136	36
175°	131	131	130	132	132	12
180°	131	131	131	131	131	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2	273.2
2.5°	273.2	273.2	274.9	275.8	277.5	278.4	280.2	281.9	287.2	288.1	289.8
5°	266.1	269.6	281.1	285.4	297.7	314.4	321.5	332.9	356.6	363.6	368.0
7.5°	255.6	263.5	291.6	298.6	329.4	373.3	391.7	416.3	454.1	472.5	487.5
10°	238.9	255.6	305.6	322.3	372.4	439.2	473.4	507.7	564.7	590.2	599.9
12.5°	220.5	247.7	320.6	343.4	415.4	512.9	554.2	592.0	657.0	691.2	696.5
15°	199.4	236.3	334.6	368.0	461.1	574.4	620.1	666.6	727.2	751.8	758.0
17.5°	180.9	227.5	347.8	382.9	496.2	629.7	676.3	714.9	764.1	780.8	785.2
20°	158.1	213.4	356.6	402.3	533.1	670.1	714.9	744.8	778.2	788.7	790.5
22.5°	141.4	198.5	361.9	409.3	557.7	694.7	732.5	756.2	779.1	782.6	783.4
25°	127.4	181.8	361.0	417.2	578.8	709.7	738.7	756.2	769.4	771.1	771.1
27.5°	114.2	163.4	357.5	418.9	594.6	713.2	736.0	748.3	754.5	758.0	758.0
30°	102.8	145.8	348.7	415.4	601.6	709.7	728.1	734.3	740.4	745.7	748.3
32.5°	94.0	129.1	335.5	408.4	602.5	700.9	714.1	717.6	726.4	738.7	743.0
35°	86.1	112.4	320.6	398.7	597.2	686.8	695.6	699.1	716.7	735.1	741.3
37.5°	78.2	100.1	301.3	382.1	589.3	670.1	676.3	682.4	709.7	731.6	738.7
40°	70.3	89.6	278.4	363.6	577.0	649.9	655.2	664.9	700.9	726.4	733.4
42.5°	64.1	80.8	253.8	344.3	561.2	627.1	635.0	649.1	690.3	717.6	725.5
45°	58.8	72.0	227.5	317.9	541.0	603.4	614.8	634.1	678.0	704.4	711.4
47.5°	53.6	65.9	200.3	290.7	519.1	579.7	594.6	616.6	661.4	686.8	693.0
50°	49.2	59.7	173.0	261.7	495.4	554.2	571.8	594.6	640.3	664.0	671.9
52.5°	45.7	54.5	147.6	232.7	468.1	527.9	548.1	571.8	614.8	637.6	642.9
55°	42.2	50.1	125.6	202.0	440.0	499.8	521.7	544.5	586.7	606.0	609.5
57.5°	40.4	46.5	107.2	173.0	410.2	468.1	492.7	513.8	553.3	568.3	571.8
60°	37.8	43.9	93.1	148.4	377.7	438.3	459.4	480.4	513.8	526.1	528.7
62.5°	35.1	42.2	82.6	124.7	344.3	403.1	424.2	443.5	471.6	480.4	483.9
65°	33.4	40.4	74.7	107.2	310.0	366.3	387.3	404.0	426.9	435.6	437.4
67.5°	31.6	38.6	68.5	92.2	275.8	329.4	345.2	361.0	378.5	387.3	388.2
70°	29.0	36.9	63.2	81.7	240.7	287.2	300.4	317.1	331.1	335.5	338.1
72.5°	27.2	34.3	59.7	73.8	204.6	246.8	259.1	268.8	281.1	285.4	285.4
75°	24.6	30.7	56.2	65.9	167.8	202.0	212.5	222.2	231.9	233.6	231.0
77.5°	22.0	27.2	48.3	55.3	130.9	159.9	168.6	173.9	181.8	183.6	184.4
80°	18.4	23.7	37.8	43.0	94.9	117.7	123.8	128.2	135.3	135.3	137.0
82.5°	14.1	18.4	27.2	30.7	64.1	80.8	86.1	88.7	93.1	93.1	93.1
85°	8.8	11.4	17.6	20.2	38.6	49.2	52.7	53.6	57.1	58.0	58.0
87.5°	4.4	6.1	11.4	12.3	20.2	25.5	25.5	27.2	27.2	26.3	25.5
90°	0.9	1.6	2.3	2.5	3.9	5.7	6.7	6.0	4.5	3.3	3.3
92.5°	3.5	9.5	15.5	17.0	23.9	33.1	37.7	33.0	23.7	16.7	16.0
95°	8.4	19.4	30.4	33.1	58.8	92.9	110.1	98.2	74.5	56.7	54.7
97.5°	14.6	24.2	33.9	36.4	79.1	136.1	164.7	157.2	142.2	131.0	127.1
100°	19.3	28.1	36.9	39.1	86.5	149.8	181.5	182.0	183.1	183.9	179.3
102.5°	23.4	31.5	39.8	41.8	89.9	154.1	186.2	195.8	214.8	229.1	225.2
105°	30.3	37.2	44.1	45.8	92.5	154.6	185.7	207.1	249.9	281.9	279.8
107.5°	37.3	43.7	50.2	51.8	92.9	147.7	175.1	205.0	264.6	309.4	310.0
110°	42.1	47.9	53.7	55.2	92.2	141.7	166.4	199.7	266.4	316.5	318.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	46.7	52.3	57.8	59.2	92.2	136.3	158.4	192.5	260.8	312.0	315.3
115°	53.8	58.8	63.9	65.3	93.1	130.3	148.8	181.6	247.4	296.7	301.3
117.5°	60.7	65.3	70.0	71.1	94.9	126.4	142.2	171.9	231.2	275.7	280.9
120°	64.7	69.1	73.5	74.6	96.2	125.1	139.5	166.6	220.9	261.6	266.6
122.5°	68.7	73.1	77.5	78.6	98.2	124.4	137.5	161.9	210.7	247.3	252.2
125°	74.7	78.8	82.8	83.9	101.0	123.8	135.3	156.0	197.5	228.6	233.2
127.5°	79.7	83.8	87.8	88.9	103.7	123.5	133.4	151.2	186.9	213.6	217.5
130°	82.3	86.7	91.1	92.2	105.7	123.8	132.7	148.6	180.3	204.1	207.6
132.5°	85.1	89.5	93.9	94.9	107.3	123.8	132.1	146.3	174.7	196.0	199.2
135°	89.1	93.1	97.1	98.1	109.1	123.8	131.0	142.9	166.7	184.5	187.3
137.5°	93.3	97.2	101.2	102.1	111.7	124.5	130.9	140.9	161.0	176.1	178.4
140°	96.7	100.3	104.0	104.9	113.3	124.6	130.3	138.9	156.3	169.3	171.4
142.5°	99.3	102.7	106.0	106.9	114.7	125.1	130.3	137.9	153.2	164.6	166.4
145°	103.4	106.3	109.3	110.0	116.5	125.1	129.4	135.6	148.1	157.5	158.9
147.5°	107.4	110.2	113.1	113.8	119.0	125.9	129.4	134.3	144.1	151.5	152.6
150°	110.1	112.6	115.2	115.8	120.3	126.4	129.4	133.5	141.8	148.1	149.0
152.5°	112.8	114.7	116.6	117.2	121.2	126.7	129.4	132.9	140.0	145.4	146.1
155°	116.8	118.2	119.7	120.1	123.1	127.3	129.4	132.2	137.9	142.1	142.5
157.5°	119.8	121.2	122.6	123.0	125.1	128.0	129.4	131.6	136.0	139.2	139.6
160°	121.8	122.9	124.0	124.3	125.9	128.2	129.4	131.2	135.0	137.8	138.0
162.5°	123.8	124.6	125.5	125.7	126.9	128.6	129.4	131.0	134.1	136.5	136.7
165°	126.0	126.7	127.5	127.7	128.2	129.0	129.4	130.5	132.8	134.5	134.6
167.5°	128.1	128.4	128.8	128.8	129.3	129.9	130.3	131.0	132.4	133.6	133.7
170°	129.4	129.7	130.1	130.2	130.2	130.3	130.3	131.0	132.4	133.6	133.6
172.5°	130.1	130.2	130.3	130.3	130.3	130.3	130.3	130.9	132.0	132.9	132.8
175°	131.0	131.0	131.0	131.0	130.8	130.4	130.3	130.6	131.4	131.9	131.9
177.5°	131.0	131.0	131.0	131.0	130.9	130.6	130.4	130.7	131.3	131.7	131.7
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	273.2	273.2
2.5°	291.6	289.8
5°	375.0	376.8
7.5°	505.0	504.1
10°	628.0	635.9
12.5°	717.6	719.3
15°	772.0	775.5
17.5°	793.1	794.0
20°	794.0	792.2
22.5°	784.3	782.6
25°	772.9	772.0
27.5°	762.4	763.2
30°	758.0	760.6
32.5°	758.0	762.4
35°	759.7	764.1
37.5°	758.9	764.1
40°	755.3	761.5
42.5°	745.7	750.1
45°	730.7	736.0
47.5°	711.4	714.9
50°	686.8	690.3
52.5°	656.1	657.0
55°	619.2	622.7
57.5°	579.7	580.6
60°	535.8	538.4
62.5°	489.2	489.2
65°	440.0	441.8
67.5°	389.1	393.5
70°	337.3	338.1
72.5°	286.3	286.3
75°	233.6	234.5
77.5°	183.6	183.6
80°	136.1	137.0
82.5°	94.0	95.7
85°	58.8	58.8
87.5°	27.2	24.6
90°	3.3	3.3
92.5°	13.4	10.7
95°	46.7	38.6
97.5°	111.8	96.5
100°	161.2	142.9
102.5°	209.6	193.9
105°	271.5	263.1
107.5°	312.0	314.0
110°	327.3	336.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	328.7	342.2
115°	320.1	338.7
117.5°	301.5	322.2
120°	286.7	306.7
122.5°	272.1	291.9
125°	251.5	269.7
127.5°	232.8	248.2
130°	221.9	236.1
132.5°	211.9	224.7
135°	198.3	209.3
137.5°	187.3	196.4
140°	179.8	188.2
142.5°	173.6	180.8
145°	164.3	169.8
147.5°	157.1	161.7
150°	152.6	156.3
152.5°	148.8	151.6
155°	144.4	146.2
157.5°	140.9	142.2
160°	138.8	139.5
162.5°	137.4	138.1
165°	135.4	136.1
167.5°	133.9	134.3
170°	133.6	133.6
172.5°	132.5	132.3
175°	131.9	131.9
177.5°	131.4	131.0
180°	131.0	131.0



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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	5.97	7.12	6.71	7.89	8.82	19.10	20.26	19.84	21.03	21.95
	3H	6.69	7.73	7.44	8.51	9.47	20.95	21.99	21.70	22.77	23.72
	4H	7.00	7.99	7.77	8.78	9.74	21.59	22.58	22.37	23.37	24.34
	6H	7.27	8.18	8.05	8.98	9.96	22.03	22.94	22.81	23.74	24.72
	8H	7.34	8.21	8.14	9.03	10.01	22.15	23.02	22.95	23.84	24.82
	12H	7.37	8.20	8.17	9.01	10.03	22.22	23.05	23.02	23.86	24.87
4H	2H	13.19	14.17	13.96	14.96	15.93	19.41	20.40	20.19	21.18	22.15
	3H	14.78	15.61	15.57	16.43	17.42	21.47	22.30	22.26	23.12	24.10
	4H	14.89	15.65	15.70	16.47	17.48	22.24	22.99	23.04	23.81	24.83
	6H	14.92	15.58	15.74	16.42	17.44	22.78	23.44	23.60	24.28	25.30
	8H	14.91	15.52	15.73	16.36	17.39	22.95	23.56	23.77	24.40	25.43
	12H	14.88	15.43	15.72	16.29	17.33	23.05	23.60	23.89	24.46	25.50
8H	4H	16.35	16.96	17.18	17.81	18.84	22.32	22.94	23.15	23.78	24.81
	6H	16.61	17.12	17.46	18.00	19.03	22.95	23.46	23.81	24.35	25.38
	8H	16.63	17.08	17.49	17.96	19.01	23.17	23.62	24.04	24.50	25.55
	12H	16.61	17.01	17.48	17.88	18.99	23.32	23.72	24.19	24.59	25.70
12H	4H	16.51	17.06	17.35	17.92	18.96	22.29	22.85	23.14	23.71	24.75
	6H	16.87	17.32	17.73	18.20	19.25	22.94	23.40	23.81	24.27	25.32
	8H	16.95	17.35	17.82	18.22	19.32	23.18	23.58	24.05	24.45	25.55