

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: P936233

Luminaire Tested: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936233
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-92765-1D-UNV-STD-W-4-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

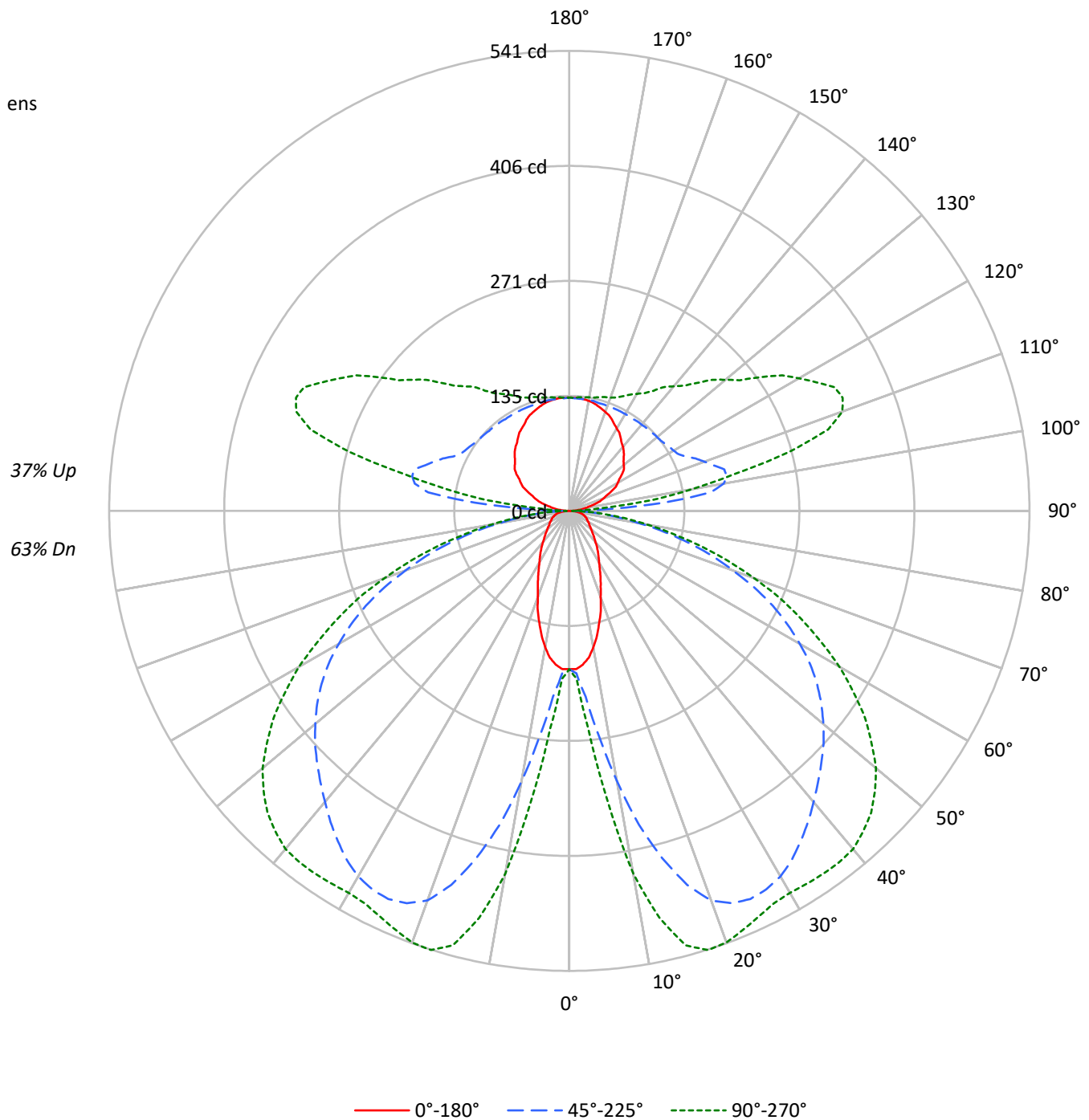
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2304.7 lumens
Efficiency: N/A
Efficacy: 104.8 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): 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





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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°	1728	1728	1728
5°	1687	1995	2323
10°	1528	2907	3850
15°	1297	3795	4650
20°	1055	4396	4739
25°	879	4596	4643
30°	740	4621	4634
35°	652	4540	4753
40°	568	4438	4877
45°	513	4361	4897
50°	471	4290	4816
55°	448	4190	4601
60°	457	4001	4264
65°	475	3714	3802
70°	500	3233	3213
75°	551	2629	2507
80°	590	1816	1690
85°	497	961	864

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4897 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	1.0
10°-20°	106.8	4.6
20°-30°	186.8	8.1
30°-40°	240.4	10.4
40°-50°	268.5	11.7
50°-60°	257.2	11.2
60°-70°	203.8	8.8
70°-80°	119.9	5.2
80°-90°	33.8	1.5
90°-100°	64.9	2.8
100°-110°	170.7	7.4
110°-120°	177.0	7.7
120°-130°	142.0	6.2
130°-140°	111.4	4.8
140°-150°	85.5	3.7
150°-160°	61.6	2.7
160°-170°	37.7	1.6
170°-180°	12.7	0.6
0°-30°	317.6	13.8
0°-40°	558.0	24.2
0°-60°	1083.7	47.0
0°-90°	1441.2	62.5
90°-120°	412.7	17.9
90°-150°	751.6	32.6
90°-180°	864.0	37.5
0°-180°	2304.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	186	186	186	186	186	
5°	182	195	219	248	257	17
15°	136	251	423	512	529	38
25°	87	284	504	526	526	40
35°	59	272	474	501	521	37
45°	40	217	419	480	502	31
55°	29	138	356	413	424	26
65°	23	73	264	297	301	23
75°	17	45	145	159	160	18
85°	6	14	36	40	40	6
90°	1	2	7	3	3	1
95°	9	34	112	58	39	10
105°	31	47	189	286	267	33
115°	55	66	151	302	344	54
125°	76	85	138	232	274	67
135°	91	100	133	188	213	70
145°	105	112	132	160	172	66
155°	119	122	132	144	149	55
165°	128	130	132	137	138	36
175°	133	133	132	134	134	13
180°	133	133	133	133	133	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2	186.2
2.5°	186.2	186.2	187.5	188.0	189.2	189.9	191.0	192.2	195.8	196.4	197.6
5°	181.5	183.9	191.6	194.6	203.0	214.4	219.1	227.0	243.1	247.9	250.9
7.5°	174.2	179.7	198.8	203.6	224.6	254.5	267.1	283.9	309.6	322.1	332.3
10°	162.9	174.2	208.4	219.8	253.9	299.4	322.8	346.2	385.1	402.4	409.0
12.5°	150.3	168.9	218.6	234.1	283.2	349.7	377.8	403.6	447.9	471.3	474.9
15°	135.9	161.1	228.2	250.9	314.4	391.6	422.7	454.5	495.9	512.5	516.7
17.5°	123.4	155.1	237.2	261.1	338.3	429.4	461.1	487.5	520.9	532.4	535.3
20°	107.8	145.5	243.1	274.3	363.5	456.9	487.5	507.8	530.6	537.7	539.0
22.5°	96.4	135.3	246.7	279.0	380.3	473.6	499.4	515.6	531.1	533.5	534.1
25°	86.9	124.0	246.1	284.5	394.6	483.8	503.6	515.6	524.6	525.8	525.8
27.5°	77.8	111.4	243.7	285.6	405.4	486.2	501.8	510.2	514.4	516.7	516.7
30°	70.1	99.4	237.7	283.2	410.2	483.8	496.4	500.6	504.8	508.4	510.2
32.5°	64.1	88.0	228.8	278.4	410.8	477.8	486.8	489.2	495.2	503.6	506.6
35°	58.6	76.7	218.6	271.9	407.2	468.3	474.2	476.7	488.6	501.2	505.4
37.5°	53.3	68.3	205.4	260.5	401.8	456.9	461.1	465.3	483.8	498.8	503.6
40°	47.9	61.1	189.9	247.9	393.5	443.1	446.8	453.3	477.8	495.2	500.0
42.5°	43.7	55.1	173.1	234.8	382.7	427.6	432.9	442.6	470.7	489.2	494.6
45°	40.1	49.1	155.1	216.7	368.8	411.4	419.2	432.4	462.3	480.2	485.0
47.5°	36.5	44.9	136.6	198.3	353.9	395.3	405.4	420.3	451.0	468.3	472.5
50°	33.6	40.7	118.0	178.4	337.8	377.8	389.8	405.4	436.6	452.7	458.1
52.5°	31.2	37.1	100.6	158.7	319.2	359.9	373.7	389.8	419.2	434.7	438.4
55°	28.7	34.1	85.6	137.7	300.0	340.7	355.7	371.2	400.0	413.2	415.6
57.5°	27.6	31.8	73.0	118.0	279.7	319.2	335.9	350.3	377.2	387.4	389.8
60°	25.7	29.9	63.5	101.2	257.5	298.8	313.2	327.6	350.3	358.7	360.5
62.5°	23.9	28.7	56.3	85.1	234.8	274.8	289.2	302.4	321.5	327.6	329.9
65°	22.8	27.6	50.9	73.0	211.4	249.7	264.0	275.5	291.0	297.0	298.2
67.5°	21.6	26.3	46.7	62.8	188.0	224.6	235.3	246.1	258.1	264.0	264.7
70°	19.7	25.2	43.1	55.7	164.1	195.8	204.8	216.2	225.7	228.8	230.6
72.5°	18.6	23.4	40.7	50.3	139.5	168.3	176.6	183.3	191.6	194.6	194.6
75°	16.8	21.0	38.3	44.9	114.3	137.7	144.9	151.5	158.1	159.2	157.5
77.5°	15.0	18.6	32.9	37.8	89.3	109.0	115.0	118.5	124.0	125.1	125.8
80°	12.6	16.2	25.7	29.4	64.7	80.2	84.4	87.4	92.2	92.2	93.5
82.5°	9.6	12.6	18.6	21.0	43.7	55.1	58.6	60.5	63.5	63.5	63.5
85°	6.0	7.8	12.0	13.7	26.3	33.6	36.0	36.5	38.9	39.5	39.5
87.5°	3.0	4.2	7.8	8.4	13.7	17.4	17.4	18.6	18.6	17.9	17.4
90°	0.9	1.6	2.3	2.5	3.9	5.8	6.8	6.1	4.6	3.4	3.4
92.5°	3.6	9.6	15.7	17.2	24.3	33.7	38.3	33.6	24.1	17.0	16.2
95°	8.6	19.7	30.9	33.7	59.7	94.4	111.8	99.8	75.7	57.7	55.6
97.5°	14.8	24.6	34.5	37.0	80.4	138.4	167.4	159.8	144.5	133.1	129.2
100°	19.6	28.6	37.5	39.7	87.9	152.3	184.4	185.0	186.1	186.9	182.3
102.5°	23.7	32.0	40.4	42.5	91.4	156.7	189.2	199.0	218.3	232.9	228.9
105°	30.8	37.8	44.8	46.6	94.0	157.1	188.7	210.5	254.0	286.5	284.4
107.5°	37.9	44.5	51.1	52.7	94.4	150.1	178.0	208.3	268.9	314.5	315.0
110°	42.8	48.6	54.5	56.1	93.7	144.0	169.1	203.0	270.7	321.6	323.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.5	53.1	58.7	60.2	93.7	138.5	160.9	195.7	265.0	317.1	320.5
115°	54.6	59.8	65.0	66.3	94.6	132.4	151.2	184.6	251.5	301.5	306.3
117.5°	61.7	66.4	71.1	72.3	96.4	128.4	144.5	174.7	234.9	280.2	285.5
120°	65.8	70.2	74.7	75.8	97.7	127.1	141.7	169.3	224.5	265.8	270.9
122.5°	69.8	74.3	78.7	79.9	99.8	126.4	139.7	164.5	214.1	251.4	256.4
125°	76.0	80.1	84.2	85.2	102.7	125.9	137.5	158.5	200.8	232.3	237.0
127.5°	81.0	85.2	89.3	90.3	105.4	125.5	135.6	153.7	189.9	217.1	221.0
130°	83.6	88.1	92.6	93.7	107.5	125.8	134.9	151.0	183.3	207.4	211.0
132.5°	86.5	91.0	95.4	96.5	109.1	125.9	134.3	148.7	177.5	199.2	202.4
135°	90.6	94.6	98.7	99.7	110.9	125.8	133.2	145.2	169.4	187.5	190.3
137.5°	94.8	98.8	102.8	103.8	113.5	126.5	133.0	143.2	163.6	179.0	181.3
140°	98.3	101.9	105.7	106.6	115.1	126.7	132.4	141.2	158.9	172.1	174.2
142.5°	101.0	104.3	107.7	108.6	116.6	127.1	132.4	140.1	155.7	167.3	169.2
145°	105.1	108.0	111.0	111.8	118.4	127.1	131.5	137.8	150.5	160.0	161.5
147.5°	109.2	112.0	115.0	115.7	121.0	128.0	131.5	136.5	146.5	154.0	155.1
150°	111.8	114.4	117.1	117.7	122.3	128.4	131.5	135.7	144.2	150.5	151.4
152.5°	114.6	116.6	118.5	119.1	123.2	128.7	131.5	135.1	142.3	147.7	148.4
155°	118.7	120.1	121.7	122.0	125.1	129.3	131.5	134.3	140.1	144.4	144.9
157.5°	121.8	123.2	124.6	125.0	127.1	130.1	131.5	133.7	138.2	141.5	141.8
160°	123.8	124.9	126.0	126.3	128.0	130.3	131.5	133.4	137.2	140.1	140.2
162.5°	125.9	126.7	127.6	127.7	129.0	130.7	131.5	133.1	136.3	138.7	138.9
165°	128.1	128.8	129.6	129.8	130.3	131.1	131.5	132.6	135.0	136.7	136.8
167.5°	130.1	130.5	130.9	130.9	131.4	132.0	132.4	133.1	134.6	135.8	135.9
170°	131.5	131.8	132.2	132.3	132.3	132.4	132.4	133.1	134.6	135.8	135.8
172.5°	132.2	132.3	132.4	132.4	132.4	132.4	132.4	133.0	134.2	135.1	135.0
175°	133.2	133.2	133.2	133.2	132.9	132.6	132.4	132.7	133.5	134.1	134.1
177.5°	133.2	133.2	133.2	133.2	133.0	132.7	132.6	132.8	133.4	133.9	133.8
180°	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2	133.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	186.2	186.2
2.5°	198.8	197.6
5°	255.7	256.9
7.5°	344.3	343.7
10°	428.2	433.5
12.5°	489.2	490.4
15°	526.4	528.8
17.5°	540.7	541.4
20°	541.4	540.1
22.5°	534.8	533.5
25°	527.0	526.4
27.5°	519.8	520.4
30°	516.7	518.6
32.5°	516.7	519.8
35°	518.0	520.9
37.5°	517.4	520.9
40°	515.0	519.1
42.5°	508.4	511.4
45°	498.2	501.8
47.5°	485.0	487.5
50°	468.3	470.7
52.5°	447.3	447.9
55°	422.2	424.5
57.5°	395.3	395.8
60°	365.3	367.0
62.5°	333.6	333.6
65°	300.0	301.2
67.5°	265.3	268.2
70°	229.9	230.6
72.5°	195.2	195.2
75°	159.2	159.9
77.5°	125.1	125.1
80°	92.8	93.5
82.5°	64.1	65.3
85°	40.1	40.1
87.5°	18.6	16.8
90°	3.4	3.4
92.5°	13.6	10.9
95°	47.5	39.3
97.5°	113.6	98.1
100°	163.8	145.2
102.5°	213.0	197.1
105°	275.9	267.3
107.5°	317.1	319.1
110°	332.7	341.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	334.1	347.8
115°	325.3	344.2
117.5°	306.4	327.5
120°	291.4	311.7
122.5°	276.5	296.7
125°	255.6	274.1
127.5°	236.6	252.3
130°	225.5	239.9
132.5°	215.4	228.3
135°	201.6	212.7
137.5°	190.4	199.6
140°	182.7	191.3
142.5°	176.5	183.8
145°	167.0	172.5
147.5°	159.7	164.3
150°	155.1	158.9
152.5°	151.2	154.1
155°	146.7	148.6
157.5°	143.2	144.5
160°	141.0	141.7
162.5°	139.6	140.3
165°	137.6	138.4
167.5°	136.1	136.5
170°	135.8	135.8
172.5°	134.7	134.4
175°	134.1	134.1
177.5°	133.5	133.2
180°	133.2	133.2



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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	3.95	4.99	4.79	5.85	6.93	17.10	18.13	17.93	19.00	20.07
	3H	4.67	5.61	5.52	6.48	7.58	18.93	19.87	19.78	20.74	21.84
	4H	4.98	5.87	5.84	6.74	7.86	19.58	20.46	20.44	21.34	22.45
	6H	5.24	6.06	6.12	6.95	8.07	20.00	20.82	20.88	21.71	22.83
	8H	5.32	6.10	6.20	7.00	8.13	20.12	20.90	21.01	21.81	22.93
	12H	5.34	6.09	6.23	6.98	8.14	20.19	20.93	21.08	21.83	22.99
4H	2H	11.17	12.05	12.03	12.93	14.04	17.39	18.28	18.26	19.16	20.27
	3H	12.75	13.50	13.63	14.41	15.54	19.44	20.18	20.32	21.09	22.22
	4H	12.86	13.53	13.75	14.44	15.60	20.20	20.88	21.09	21.79	22.94
	6H	12.88	13.47	13.78	14.40	15.55	20.74	21.33	21.65	22.26	23.41
	8H	12.86	13.41	13.77	14.33	15.51	20.90	21.45	21.81	22.37	23.55
	12H	12.83	13.32	13.76	14.27	15.44	21.00	21.49	21.92	22.43	23.61
8H	4H	14.31	14.86	15.22	15.78	16.95	20.28	20.83	21.19	21.75	22.93
	6H	14.56	15.01	15.49	15.98	17.15	20.90	21.36	21.84	22.33	23.50
	8H	14.58	14.98	15.52	15.94	17.13	21.12	21.52	22.07	22.48	23.67
	12H	14.56	14.91	15.51	15.86	17.10	21.26	21.62	22.21	22.57	23.81
12H	4H	14.46	14.95	15.39	15.90	17.07	20.24	20.74	21.17	21.68	22.86
	6H	14.82	15.22	15.76	16.18	17.36	20.89	21.30	21.84	22.25	23.44
	8H	14.89	15.25	15.84	16.20	17.44	21.12	21.48	22.07	22.43	23.67