

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: P936283

Luminaire Tested: SQ4-FB-025U-050D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936283
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-B2750-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

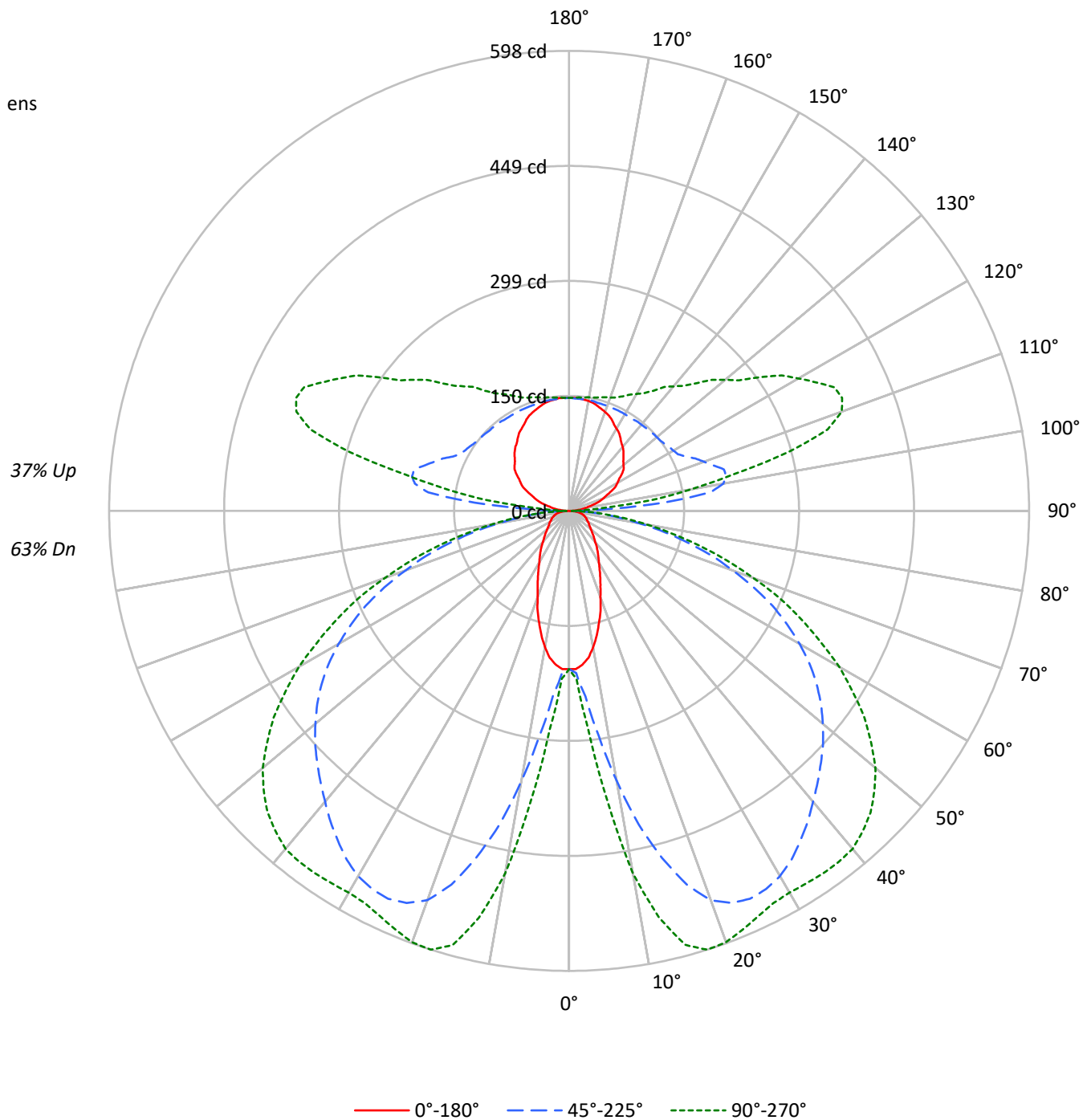
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2545.8 lumens
Efficiency: N/A
Efficacy: 115.7 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





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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°	1909	1909	1909
5°	1864	2205	2566
10°	1688	3211	4254
15°	1433	4192	5137
20°	1165	4855	5234
25°	971	5077	5128
30°	818	5104	5119
35°	721	5016	5250
40°	628	4902	5388
45°	567	4816	5409
50°	520	4739	5319
55°	495	4628	5083
60°	505	4419	4710
65°	523	4103	4199
70°	553	3571	3548
75°	607	2903	2769
80°	651	2008	1866
85°	547	1060	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5409 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.6	1.0
10°-20°	117.9	4.6
20°-30°	206.3	8.1
30°-40°	265.6	10.4
40°-50°	296.6	11.7
50°-60°	284.1	11.2
60°-70°	225.1	8.8
70°-80°	132.4	5.2
80°-90°	37.3	1.5
90°-100°	71.7	2.8
100°-110°	188.6	7.4
110°-120°	195.5	7.7
120°-130°	156.8	6.2
130°-140°	123.1	4.8
140°-150°	94.5	3.7
150°-160°	68.0	2.7
160°-170°	41.6	1.6
170°-180°	14.1	0.6
0°-30°	350.8	13.8
0°-40°	616.4	24.2
0°-60°	1197.1	47.0
0°-90°	1592.0	62.5
90°-120°	455.8	17.9
90°-150°	830.2	32.6
90°-180°	954.0	37.5
0°-180°	2545.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	206	206	206	206	206	
5°	200	215	242	274	284	19
15°	150	277	467	566	584	42
25°	96	314	556	581	581	44
35°	65	300	524	554	575	40
45°	44	239	463	530	554	34
55°	32	152	393	456	469	29
65°	25	81	292	328	333	25
75°	18	50	160	176	177	19
85°	7	15	40	44	44	7
90°	1	3	8	4	4	1
95°	10	37	124	64	43	11
105°	34	52	208	316	295	36
115°	60	73	167	333	380	60
125°	84	94	152	257	303	74
135°	100	110	147	207	235	77
145°	116	123	145	177	191	73
155°	131	135	145	160	164	60
165°	142	143	145	151	153	40
175°	147	147	146	148	148	14
180°	147	147	147	147	147	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7
2.5°	205.7	205.7	207.1	207.7	209.0	209.7	211.0	212.3	216.3	216.9	218.3
5°	200.5	203.1	211.7	214.9	224.2	236.8	242.1	250.7	268.6	273.8	277.2
7.5°	192.5	198.5	219.6	224.9	248.1	281.1	295.0	313.5	341.9	355.8	367.1
10°	179.9	192.5	230.2	242.8	280.4	330.7	356.5	382.4	425.4	444.5	451.8
12.5°	166.0	186.6	241.5	258.6	312.9	386.3	417.4	445.9	494.8	520.6	524.6
15°	150.2	178.0	252.0	277.2	347.3	432.6	467.0	502.1	547.7	566.2	570.8
17.5°	136.3	171.4	262.0	288.4	373.7	474.3	509.4	538.5	575.4	588.1	591.3
20°	119.1	160.7	268.6	303.0	401.5	504.7	538.5	560.9	586.1	594.0	595.3
22.5°	106.5	149.5	272.5	308.2	420.0	523.2	551.7	569.5	586.7	589.3	590.0
25°	95.9	137.0	271.8	314.2	435.9	534.4	556.3	569.5	579.5	580.8	580.8
27.5°	86.0	123.1	269.2	315.5	447.8	537.1	554.3	563.6	568.2	570.8	570.8
30°	77.4	109.8	262.6	312.9	453.1	534.4	548.3	552.9	557.6	561.6	563.6
32.5°	70.8	97.2	252.7	307.5	453.8	527.8	537.8	540.4	547.0	556.3	559.6
35°	64.8	84.7	241.5	300.3	449.8	517.3	523.9	526.5	539.7	553.6	558.3
37.5°	58.9	75.4	226.9	287.7	443.8	504.7	509.4	514.0	534.4	551.0	556.3
40°	52.9	67.4	209.7	273.8	434.6	489.5	493.5	500.7	527.8	547.0	552.4
42.5°	48.3	60.8	191.2	259.3	422.7	472.3	478.2	488.9	519.9	540.4	546.3
45°	44.3	54.2	171.4	239.4	407.4	454.4	463.0	477.6	510.6	530.5	535.8
47.5°	40.3	49.6	150.9	219.0	390.9	436.6	447.8	464.3	498.1	517.3	521.9
50°	37.1	45.0	130.3	197.1	373.1	417.4	430.6	447.8	482.3	500.1	506.0
52.5°	34.4	41.0	111.1	175.3	352.6	397.6	412.7	430.6	463.0	480.2	484.2
55°	31.7	37.7	94.6	152.1	331.4	376.4	392.9	410.1	441.8	456.4	459.1
57.5°	30.5	35.1	80.7	130.3	308.9	352.6	371.0	386.9	416.7	427.9	430.6
60°	28.4	33.0	70.1	111.8	284.5	330.1	346.0	361.9	386.9	396.2	398.2
62.5°	26.4	31.7	62.2	94.0	259.3	303.6	319.5	334.1	355.2	361.9	364.4
65°	25.1	30.5	56.2	80.7	233.5	275.8	291.7	304.3	321.4	328.0	329.4
67.5°	23.9	29.1	51.6	69.4	207.7	248.1	259.9	271.8	285.1	291.7	292.3
70°	21.8	27.8	47.6	61.5	181.2	216.3	226.2	238.8	249.4	252.7	254.7
72.5°	20.5	25.8	45.0	55.6	154.1	185.9	195.1	202.4	211.7	214.9	214.9
75°	18.5	23.2	42.3	49.6	126.3	152.1	160.0	167.3	174.6	175.9	173.9
77.5°	16.6	20.5	36.4	41.7	98.6	120.4	127.0	130.9	137.0	138.2	138.9
80°	13.9	17.8	28.4	32.4	71.5	88.6	93.3	96.5	101.9	101.9	103.2
82.5°	10.6	13.9	20.5	23.2	48.3	60.8	64.8	66.9	70.1	70.1	70.1
85°	6.6	8.6	13.2	15.2	29.1	37.1	39.7	40.3	43.0	43.7	43.7
87.5°	3.4	4.6	8.6	9.3	15.2	19.2	19.2	20.5	20.5	19.8	19.2
90°	1.0	1.8	2.6	2.8	4.3	6.4	7.5	6.7	5.0	3.7	3.7
92.5°	3.9	10.6	17.4	19.0	26.8	37.2	42.3	37.1	26.6	18.7	17.9
95°	9.5	21.8	34.1	37.2	66.0	104.3	123.5	110.2	83.6	63.7	61.4
97.5°	16.4	27.2	38.1	40.8	88.8	152.8	184.9	176.5	159.6	147.0	142.7
100°	21.7	31.6	41.4	43.9	97.1	168.2	203.7	204.3	205.6	206.5	201.3
102.5°	26.2	35.4	44.7	46.9	101.0	173.0	209.0	219.8	241.2	257.2	252.8
105°	34.0	41.8	49.5	51.5	103.8	173.5	208.4	232.5	280.5	316.5	314.1
107.5°	41.9	49.1	56.4	58.2	104.3	165.8	196.6	230.1	297.1	347.4	348.0
110°	47.2	53.7	60.2	61.9	103.5	159.0	186.7	224.2	299.1	355.3	357.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	52.5	58.7	64.9	66.5	103.5	153.0	177.8	216.1	292.7	350.2	354.0
115°	60.3	66.1	71.8	73.3	104.5	146.2	167.0	203.9	277.8	333.1	338.3
117.5°	68.1	73.4	78.6	79.9	106.5	141.9	159.6	193.0	259.5	309.5	315.3
120°	72.7	77.6	82.5	83.7	108.0	140.4	156.6	187.0	248.0	293.6	299.3
122.5°	77.1	82.0	87.0	88.2	110.2	139.6	154.3	181.7	236.5	277.7	283.2
125°	83.9	88.4	93.0	94.2	113.4	139.0	151.8	175.1	221.8	256.7	261.8
127.5°	89.4	94.1	98.6	99.8	116.4	138.6	149.8	169.8	209.8	239.8	244.1
130°	92.4	97.3	102.2	103.5	118.7	138.9	149.0	166.8	202.4	229.1	233.1
132.5°	95.5	100.5	105.4	106.6	120.5	139.0	148.3	164.3	196.1	220.1	223.6
135°	100.1	104.5	109.1	110.1	122.5	138.9	147.1	160.4	187.1	207.2	210.2
137.5°	104.7	109.2	113.6	114.7	125.4	139.7	146.9	158.2	180.7	197.7	200.3
140°	108.6	112.6	116.7	117.7	127.2	139.9	146.2	156.0	175.5	190.1	192.5
142.5°	111.5	115.3	119.0	120.0	128.8	140.4	146.2	154.8	172.0	184.8	186.8
145°	116.1	119.3	122.7	123.4	130.7	140.4	145.2	152.2	166.2	176.8	178.4
147.5°	120.6	123.7	127.0	127.8	133.6	141.4	145.2	150.8	161.8	170.1	171.4
150°	123.5	126.4	129.4	130.1	135.1	141.9	145.2	149.9	159.2	166.2	167.2
152.5°	126.6	128.8	130.9	131.5	136.1	142.2	145.2	149.2	157.2	163.2	164.0
155°	131.1	132.7	134.4	134.8	138.2	142.9	145.2	148.4	154.8	159.5	160.0
157.5°	134.5	136.1	137.6	138.0	140.4	143.7	145.2	147.7	152.6	156.3	156.7
160°	136.8	137.9	139.2	139.5	141.4	144.0	145.2	147.3	151.5	154.7	154.9
162.5°	139.0	139.9	140.9	141.1	142.5	144.4	145.2	147.0	150.6	153.2	153.4
165°	141.5	142.3	143.2	143.4	144.0	144.8	145.2	146.5	149.1	151.0	151.2
167.5°	143.8	144.2	144.5	144.6	145.1	145.8	146.2	147.0	148.7	150.0	150.1
170°	145.2	145.6	146.0	146.1	146.1	146.2	146.2	147.0	148.7	150.0	150.0
172.5°	146.0	146.1	146.2	146.2	146.2	146.2	146.2	146.9	148.2	149.2	149.1
175°	147.1	147.1	147.1	147.1	146.8	146.4	146.2	146.6	147.5	148.1	148.1
177.5°	147.1	147.1	147.1	147.1	146.9	146.6	146.4	146.7	147.4	147.9	147.8
180°	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1	147.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	205.7	205.7
2.5°	219.6	218.3
5°	282.5	283.8
7.5°	380.3	379.7
10°	473.0	478.9
12.5°	540.4	541.7
15°	581.4	584.1
17.5°	597.3	598.0
20°	598.0	596.6
22.5°	590.7	589.3
25°	582.1	581.4
27.5°	574.1	574.8
30°	570.8	572.9
32.5°	570.8	574.1
35°	572.2	575.4
37.5°	571.5	575.4
40°	568.8	573.5
42.5°	561.6	564.9
45°	550.3	554.3
47.5°	535.8	538.5
50°	517.3	519.9
52.5°	494.1	494.8
55°	466.4	468.9
57.5°	436.6	437.2
60°	403.5	405.4
62.5°	368.5	368.5
65°	331.4	332.7
67.5°	293.0	296.3
70°	254.0	254.7
72.5°	215.6	215.6
75°	175.9	176.6
77.5°	138.2	138.2
80°	102.5	103.2
82.5°	70.8	72.1
85°	44.3	44.3
87.5°	20.5	18.5
90°	3.7	3.7
92.5°	15.0	12.0
95°	52.5	43.4
97.5°	125.5	108.4
100°	180.9	160.4
102.5°	235.3	217.7
105°	304.8	295.3
107.5°	350.2	352.5
110°	367.5	377.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	369.1	384.1
115°	359.3	380.2
117.5°	338.5	361.8
120°	321.8	344.3
122.5°	305.5	327.7
125°	282.3	302.8
127.5°	261.4	278.6
130°	249.1	265.0
132.5°	237.9	252.2
135°	222.6	235.0
137.5°	210.3	220.5
140°	201.8	211.3
142.5°	194.9	203.0
145°	184.5	190.6
147.5°	176.4	181.5
150°	171.4	175.5
152.5°	167.0	170.2
155°	162.1	164.2
157.5°	158.2	159.6
160°	155.8	156.6
162.5°	154.2	155.0
165°	152.0	152.8
167.5°	150.4	150.8
170°	150.0	150.0
172.5°	148.8	148.5
175°	148.1	148.1
177.5°	147.5	147.1
180°	147.1	147.1



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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	4.30	5.34	5.14	6.20	7.28	17.44	18.48	18.27	19.34	20.42
	3H	5.02	5.96	5.87	6.83	7.93	19.28	20.21	20.12	21.08	22.19
	4H	5.33	6.22	6.19	7.09	8.21	19.92	20.81	20.78	21.68	22.80
	6H	5.59	6.41	6.46	7.29	8.42	20.35	21.17	21.22	22.05	23.18
	8H	5.66	6.44	6.55	7.35	8.47	20.47	21.25	21.35	22.15	23.28
	12H	5.69	6.43	6.58	7.33	8.48	20.54	21.28	21.42	22.18	23.33
4H	2H	11.51	12.40	12.38	13.28	14.39	17.74	18.62	18.60	19.50	20.61
	3H	13.10	13.84	13.98	14.75	15.88	19.79	20.53	20.66	21.44	22.57
	4H	13.20	13.88	14.09	14.79	15.94	20.55	21.23	21.44	22.13	23.29
	6H	13.23	13.81	14.13	14.74	15.90	21.09	21.67	21.99	22.60	23.76
	8H	13.21	13.76	14.12	14.68	15.85	21.25	21.80	22.16	22.72	23.89
	12H	13.17	13.67	14.10	14.61	15.79	21.34	21.84	22.27	22.78	23.96
8H	4H	14.65	15.20	15.56	16.13	17.30	20.63	21.18	21.53	22.10	23.27
	6H	14.90	15.36	15.84	16.33	17.50	21.25	21.71	22.19	22.67	23.84
	8H	14.93	15.33	15.87	16.29	17.47	21.47	21.87	22.41	22.83	24.02
	12H	14.90	15.26	15.85	16.21	17.45	21.61	21.97	22.56	22.92	24.15
12H	4H	14.80	15.30	15.73	16.24	17.42	20.59	21.08	21.52	22.03	23.20
	6H	15.16	15.57	16.11	16.52	17.71	21.24	21.64	22.18	22.60	23.79
	8H	15.24	15.60	16.19	16.55	17.78	21.47	21.82	22.42	22.77	24.01