

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: P936251

Luminaire Tested: SQ4-FB-025U-050D-930-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936251
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-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

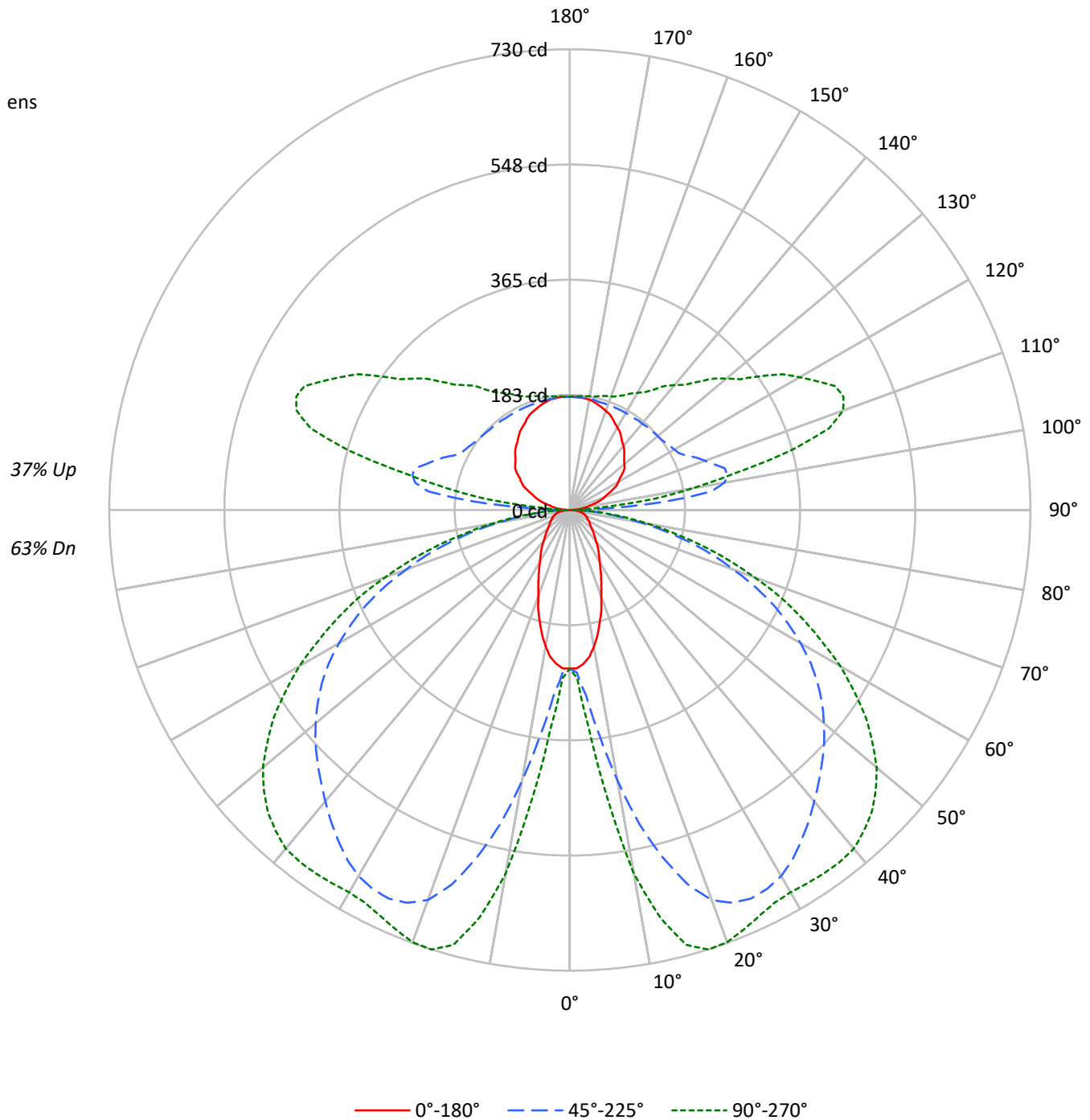
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3109.2 lumens
Efficiency: N/A
Efficacy: 94.2 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	50	30	10	0
RCR																					
0	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	68	68	68	63
1	100	95	91	87	93	89	86	82	78	75	73	68	66	64	59	57	56	59	57	56	51
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46	51	48	46	42
3	82	72	64	57	76	67	60	55	59	53	49	51	47	43	44	41	38	44	41	38	34
4	75	63	54	48	69	59	52	46	52	46	41	45	40	37	39	35	32	39	35	32	29
5	68	56	47	41	63	52	45	39	46	40	35	40	35	31	35	31	28	35	31	28	24
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24	31	27	24	21
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21	28	24	21	18
8	53	40	32	26	50	38	31	25	34	27	23	30	24	21	26	22	18	26	22	18	16
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	24	19	16	24	19	16	14
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1554	1554	1554
5°	1518	1795	2089
10°	1376	2617	3462
15°	1169	3418	4181
20°	951	3960	4262
25°	794	4143	4175
30°	669	4168	4167
35°	591	4098	4275
40°	514	4007	4386
45°	466	3939	4403
50°	427	3879	4331
55°	409	3791	4139
60°	418	3623	3835
65°	434	3368	3418
70°	462	2935	2889
75°	509	2391	2254
80°	550	1656	1519
85°	483	878	777

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4403 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.5	1.0
10°-20°	144.0	4.6
20°-30°	251.9	8.1
30°-40°	324.3	10.4
40°-50°	362.2	11.6
50°-60°	346.9	11.2
60°-70°	274.9	8.8
70°-80°	161.7	5.2
80°-90°	45.6	1.5
90°-100°	87.6	2.8
100°-110°	230.4	7.4
110°-120°	238.9	7.7
120°-130°	191.6	6.2
130°-140°	150.3	4.8
140°-150°	115.4	3.7
150°-160°	83.1	2.7
160°-170°	50.8	1.6
170°-180°	17.2	0.6
0°-30°	428.4	13.8
0°-40°	752.7	24.2
0°-60°	1461.8	47.0
0°-90°	1943.9	62.5
90°-120°	556.8	17.9
90°-150°	1014.1	32.6
90°-180°	1165.0	37.5
0°-180°	3109.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	251	251	251	251	251	
5°	245	262	296	334	346	23
15°	183	338	570	691	713	51
25°	117	384	679	709	710	54
35°	79	367	640	676	703	49
45°	54	292	565	648	677	42
55°	39	186	480	557	573	35
65°	31	98	356	401	406	30
75°	23	60	196	215	216	24
85°	8	18	48	53	54	9
90°	1	3	9	5	5	2
95°	12	45	151	78	53	13
105°	42	63	255	387	361	44
115°	74	90	204	407	464	73
125°	102	115	186	314	370	91
135°	122	134	180	253	287	95
145°	142	151	178	216	233	89
155°	160	165	178	195	200	74
165°	173	175	178	184	187	49
175°	180	180	179	181	181	17
180°	180	180	180	180	180	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2	251.2
2.5°	251.2	251.2	252.8	253.6	255.3	256.1	257.7	259.3	264.1	264.9	266.5
5°	244.8	248.0	258.5	262.5	273.8	289.2	295.6	306.1	327.9	334.4	338.5
7.5°	235.0	242.3	268.1	274.6	302.9	343.3	360.2	382.9	417.6	434.6	448.3
10°	219.7	235.0	281.0	296.5	342.5	403.8	435.4	466.9	519.4	542.7	551.7
12.5°	202.8	227.8	294.8	315.8	382.1	471.7	509.7	544.4	604.2	635.7	640.5
15°	183.3	217.3	307.7	338.5	424.1	528.2	570.2	613.1	668.8	691.4	697.1
17.5°	166.4	209.2	319.8	352.2	456.3	579.1	621.9	657.5	702.7	718.0	722.1
20°	145.4	196.3	327.9	369.9	490.3	616.3	657.5	685.0	715.6	725.3	727.0
22.5°	130.0	182.5	332.8	376.4	512.9	638.9	673.6	695.4	716.4	719.6	720.5
25°	117.2	167.2	332.0	383.7	532.3	652.6	679.3	695.4	707.5	709.1	709.1
27.5°	105.0	150.2	328.7	385.3	546.8	655.9	676.8	688.2	693.8	697.1	697.1
30°	94.5	134.1	320.6	382.1	553.3	652.6	669.6	675.2	680.9	685.8	688.2
32.5°	86.4	118.8	308.5	375.6	554.1	644.6	656.7	659.9	667.9	679.3	683.4
35°	79.2	103.4	294.8	366.7	549.3	631.6	639.7	643.0	659.1	676.0	681.7
37.5°	71.9	92.1	277.0	351.4	541.9	616.3	621.9	627.6	652.6	672.8	679.3
40°	64.6	82.4	256.1	334.4	530.7	597.7	602.6	611.4	644.6	667.9	674.4
42.5°	58.9	74.3	233.4	316.6	516.1	576.7	583.9	596.9	634.9	659.9	667.1
45°	54.1	66.2	209.2	292.4	497.5	554.9	565.4	583.1	623.5	647.8	654.2
47.5°	49.3	60.5	184.1	267.3	477.4	533.1	546.8	567.0	608.2	631.6	637.3
50°	45.2	54.9	159.2	240.7	455.5	509.7	525.8	546.8	588.8	610.6	617.9
52.5°	42.0	50.1	135.7	214.1	430.5	485.4	504.0	525.8	565.4	586.4	591.2
55°	38.8	46.0	115.5	185.7	404.6	459.6	479.8	500.8	539.5	557.3	560.6
57.5°	37.2	42.8	98.5	159.2	377.2	430.5	453.1	472.5	508.9	522.6	525.8
60°	34.8	40.4	85.6	136.5	347.3	403.0	422.5	441.8	472.5	483.8	486.2
62.5°	32.3	38.8	76.0	114.7	316.6	370.7	390.1	407.9	433.7	441.8	445.0
65°	30.7	37.2	68.7	98.5	285.1	336.8	356.2	371.5	392.5	400.6	402.2
67.5°	29.1	35.6	63.0	84.8	253.6	302.9	317.4	332.0	348.1	356.2	357.0
70°	26.7	33.9	58.1	75.1	221.3	264.1	276.2	291.6	304.5	308.5	311.0
72.5°	25.1	31.5	54.9	67.9	188.2	226.9	238.3	247.2	258.5	262.5	262.5
75°	22.6	28.3	51.7	60.5	154.3	185.7	195.5	204.4	213.2	214.9	212.4
77.5°	20.2	25.1	44.4	50.9	120.4	147.0	155.1	160.0	167.2	168.8	169.6
80°	16.9	21.8	34.8	39.6	87.2	108.2	113.9	118.0	124.4	124.4	126.0
82.5°	12.9	16.9	25.1	28.3	58.9	74.3	79.2	81.6	85.6	85.6	85.6
85°	8.1	10.5	16.1	18.5	35.6	45.2	48.5	49.3	52.5	53.3	53.3
87.5°	4.0	5.6	10.5	11.3	18.5	23.4	23.4	25.1	25.1	24.3	23.4
90°	1.2	2.2	3.1	3.4	5.3	7.9	9.2	8.1	6.1	4.6	4.6
92.5°	4.8	13.0	21.2	23.3	32.8	45.4	51.6	45.2	32.4	22.9	22.0
95°	11.6	26.6	41.6	45.4	80.5	127.4	150.9	134.7	102.1	77.8	75.1
97.5°	20.0	33.2	46.5	49.8	108.5	186.7	225.8	215.5	195.0	179.6	174.4
100°	26.6	38.5	50.6	53.6	118.7	205.5	248.8	249.6	251.1	252.2	246.0
102.5°	32.1	43.4	54.5	57.3	123.3	211.3	255.4	268.4	294.6	314.3	308.9
105°	41.5	51.0	60.5	62.9	126.8	212.0	254.6	283.9	342.6	386.6	383.8
107.5°	51.2	60.0	68.8	71.1	127.4	202.6	240.2	281.1	363.0	424.3	425.0
110°	57.7	65.7	73.6	75.6	126.5	194.2	228.1	273.9	365.4	433.9	436.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	64.1	71.7	79.3	81.2	126.5	186.9	217.1	263.9	357.6	427.8	432.3
115°	73.7	80.8	87.8	89.5	127.7	178.5	204.0	249.1	339.3	406.9	413.3
117.5°	83.3	89.6	96.0	97.6	130.0	173.3	195.0	235.7	317.0	378.1	385.1
120°	88.8	94.8	100.8	102.3	132.0	171.6	191.4	228.5	302.9	358.7	365.6
122.5°	94.2	100.3	106.3	107.8	134.7	170.6	188.5	222.0	289.0	339.3	346.1
125°	102.5	108.1	113.6	115.0	138.5	169.9	185.6	214.0	270.9	313.6	319.8
127.5°	109.3	114.8	120.4	121.8	142.2	169.4	183.0	207.4	256.3	292.9	298.2
130°	112.9	118.9	124.9	126.4	144.9	169.7	182.0	203.8	247.2	279.8	284.7
132.5°	116.7	122.7	128.6	130.2	147.2	169.9	181.2	200.7	239.6	268.8	273.1
135°	122.2	127.7	133.1	134.5	149.6	169.8	179.8	196.1	228.7	253.1	256.9
137.5°	127.9	133.3	138.7	140.0	153.2	170.8	179.6	193.4	220.9	241.5	244.6
140°	132.6	137.6	142.5	143.8	155.5	171.0	178.7	190.6	214.4	232.2	235.1
142.5°	136.2	140.8	145.4	146.5	157.2	171.5	178.7	189.1	210.1	225.7	228.2
145°	141.7	145.7	149.8	150.8	159.7	171.5	177.5	186.0	203.1	215.9	217.8
147.5°	147.3	151.2	155.1	156.1	163.2	172.7	177.5	184.2	197.6	207.7	209.3
150°	150.9	154.4	158.0	158.9	165.1	173.4	177.5	183.2	194.5	203.0	204.3
152.5°	154.7	157.3	160.0	160.7	166.3	173.8	177.5	182.3	192.0	199.3	200.3
155°	160.2	162.2	164.2	164.7	169.0	174.7	177.5	181.3	189.0	194.8	195.5
157.5°	164.3	166.2	168.1	168.6	171.6	175.5	177.5	180.4	186.5	191.0	191.4
160°	167.1	168.6	170.1	170.5	172.8	175.9	177.5	180.0	185.2	189.0	189.3
162.5°	169.8	171.0	172.1	172.4	174.1	176.3	177.5	179.6	184.0	187.3	187.5
165°	172.9	173.8	174.9	175.1	175.9	177.0	177.5	179.0	182.1	184.4	184.7
167.5°	175.6	176.1	176.6	176.7	177.4	178.3	178.7	179.7	181.7	183.2	183.3
170°	177.5	177.9	178.4	178.5	178.6	178.7	178.7	179.7	181.7	183.2	183.2
172.5°	178.4	178.5	178.7	178.7	178.7	178.7	178.7	179.5	181.1	182.3	182.2
175°	179.8	179.8	179.8	179.8	179.4	178.9	178.7	179.1	180.2	181.0	181.0
177.5°	179.8	179.8	179.8	179.8	179.5	179.1	178.9	179.3	180.1	180.8	180.7
180°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	251.2	251.2
2.5°	268.1	266.5
5°	344.9	346.5
7.5°	464.5	463.7
10°	577.5	584.7
12.5°	659.9	661.5
15°	710.0	713.2
17.5°	729.4	730.2
20°	730.2	728.6
22.5°	721.3	719.6
25°	710.8	710.0
27.5°	701.1	701.9
30°	697.1	699.5
32.5°	697.1	701.1
35°	698.7	702.7
37.5°	697.9	702.7
40°	694.6	700.3
42.5°	685.8	689.8
45°	672.0	676.8
47.5°	654.2	657.5
50°	631.6	634.9
52.5°	603.4	604.2
55°	569.4	572.7
57.5°	533.1	533.9
60°	492.7	495.1
62.5°	449.9	449.9
65°	404.6	406.2
67.5°	357.8	361.8
70°	310.2	311.0
72.5°	263.3	263.3
75°	214.9	215.7
77.5°	168.8	168.8
80°	125.2	126.0
82.5°	86.4	88.0
85°	54.1	54.1
87.5°	25.1	22.6
90°	4.6	4.6
92.5°	18.3	14.7
95°	64.0	53.0
97.5°	153.4	132.3
100°	221.0	195.9
102.5°	287.5	266.0
105°	372.3	360.7
107.5°	427.8	430.6
110°	449.0	461.0



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	450.8	469.3
115°	438.8	464.5
117.5°	413.5	441.9
120°	393.1	420.7
122.5°	373.2	400.4
125°	344.8	369.9
127.5°	319.4	340.5
130°	304.3	323.8
132.5°	290.6	308.1
135°	271.9	287.0
137.5°	257.0	269.2
140°	246.6	258.2
142.5°	238.1	248.0
145°	225.3	232.9
147.5°	215.5	221.7
150°	209.3	214.4
152.5°	204.0	207.9
155°	197.9	200.5
157.5°	193.2	195.0
160°	190.3	191.4
162.5°	188.5	189.4
165°	185.7	186.8
167.5°	183.8	184.2
170°	183.2	183.2
172.5°	181.8	181.5
175°	181.0	181.0
177.5°	180.2	179.8
180°	179.8	179.8



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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	3.59	4.63	4.43	5.49	6.57	16.76	17.80	17.59	18.66	19.74
	3H	4.31	5.25	5.16	6.12	7.22	18.61	19.54	19.45	20.42	21.52
	4H	4.62	5.51	5.48	6.38	7.50	19.26	20.14	20.12	21.02	22.14
	6H	4.88	5.70	5.76	6.58	7.71	19.70	20.51	20.57	21.40	22.53
	8H	4.95	5.73	5.84	6.64	7.77	19.82	20.60	20.70	21.50	22.63
	12H	4.98	5.72	5.87	6.62	7.77	19.89	20.63	20.78	21.53	22.69
4H	2H	10.82	11.71	11.69	12.59	13.70	17.06	17.94	17.92	18.82	19.93
	3H	12.41	13.15	13.29	14.06	15.19	19.11	19.86	19.99	20.77	21.90
	4H	12.51	13.19	13.40	14.10	15.25	19.89	20.56	20.78	21.47	22.63
	6H	12.53	13.12	13.44	14.05	15.21	20.43	21.02	21.34	21.95	23.11
	8H	12.52	13.06	13.42	13.99	15.16	20.60	21.15	21.50	22.07	23.24
	12H	12.48	12.98	13.41	13.92	15.10	20.70	21.19	21.62	22.13	23.31
8H	4H	13.97	14.52	14.88	15.44	16.61	19.96	20.51	20.87	21.44	22.61
	6H	14.22	14.68	15.16	15.64	16.81	20.60	21.05	21.53	22.02	23.19
	8H	14.24	14.64	15.19	15.60	16.79	20.82	21.22	21.76	22.18	23.36
	12H	14.22	14.57	15.17	15.52	16.76	20.97	21.32	21.92	22.27	23.51
12H	4H	14.12	14.62	15.05	15.56	16.74	19.92	20.42	20.85	21.36	22.54
	6H	14.48	14.88	15.42	15.84	17.03	20.58	20.99	21.53	21.94	23.13
	8H	14.56	14.91	15.51	15.86	17.10	20.82	21.17	21.77	22.12	23.36