

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: P936265

Luminaire Tested: SQ4-FB-025U-050D-93050-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936265
REPORT IS A COMBINATION OF REPORTS P933453 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-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

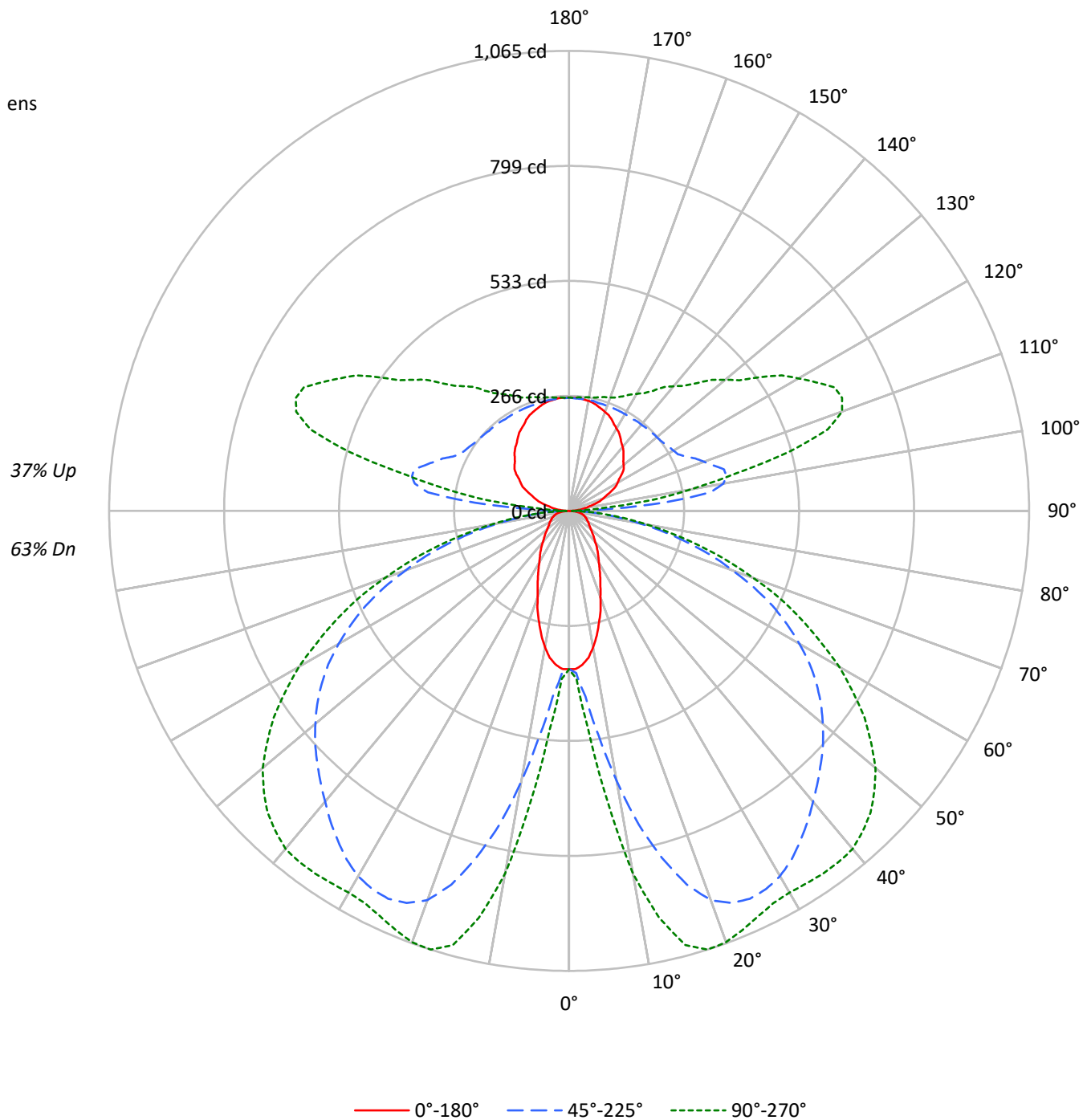
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4534.7 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 44
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: P936265

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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	63	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°	1699	1699	1699
5°	1660	1965	2285
10°	1506	2864	3788
15°	1280	3742	4574
20°	1042	4336	4661
25°	869	4537	4567
30°	733	4566	4558
35°	648	4490	4676
40°	565	4391	4798
45°	512	4319	4817
50°	469	4254	4737
55°	450	4159	4527
60°	460	3977	4195
65°	479	3699	3740
70°	510	3226	3160
75°	565	2630	2465
80°	619	1824	1661
85°	550	968	851

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4817 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	1.0
10°-20°	210.0	4.6
20°-30°	367.4	8.1
30°-40°	472.9	10.4
40°-50°	528.3	11.6
50°-60°	506.0	11.2
60°-70°	401.0	8.8
70°-80°	235.8	5.2
80°-90°	66.5	1.5
90°-100°	127.8	2.8
100°-110°	336.0	7.4
110°-120°	348.3	7.7
120°-130°	279.4	6.2
130°-140°	219.2	4.8
140°-150°	168.3	3.7
150°-160°	121.2	2.7
160°-170°	74.2	1.6
170°-180°	25.1	0.6
0°-30°	624.8	13.8
0°-40°	1097.8	24.2
0°-60°	2132.0	47.0
0°-90°	2835.3	62.5
90°-120°	812.1	17.9
90°-150°	1479.0	32.6
90°-180°	1699.0	37.5
0°-180°	4534.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	366	366	366	366	366	
5°	357	383	431	488	505	33
15°	267	494	832	1008	1040	74
25°	171	560	991	1034	1036	79
35°	115	535	933	986	1025	72
45°	79	426	825	945	987	61
55°	57	271	700	813	835	52
65°	45	144	520	584	593	44
75°	33	88	285	313	314	35
85°	12	27	71	78	79	13
90°	2	5	13	7	7	2
95°	17	66	220	114	77	19
105°	60	92	371	564	526	64
115°	108	130	298	594	677	106
125°	150	168	271	457	540	133
135°	178	196	262	369	418	138
145°	207	220	259	315	340	130
155°	234	240	259	284	292	107
165°	252	256	259	269	272	71
175°	262	262	261	264	264	25
180°	262	262	262	262	262	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3	366.3
2.5°	366.3	366.3	368.7	369.9	372.2	373.5	375.8	378.2	385.2	386.4	388.7
5°	356.9	361.7	377.0	382.9	399.4	421.8	431.2	446.4	478.3	487.7	493.6
7.5°	342.8	353.4	391.1	400.5	441.8	500.6	525.4	558.4	609.0	633.8	653.8
10°	320.4	342.8	410.0	432.4	499.5	589.0	635.0	680.9	757.4	791.6	804.6
12.5°	295.7	332.2	430.0	460.6	557.2	688.0	743.4	794.0	881.2	927.1	934.2
15°	267.4	316.9	448.8	493.6	618.5	770.4	831.8	894.1	975.4	1008.4	1016.6
17.5°	242.7	305.1	466.6	513.6	665.6	844.7	907.1	958.9	1024.9	1047.3	1053.2
20°	212.0	286.2	478.3	539.5	715.1	898.9	958.9	999.0	1043.8	1057.9	1060.3
22.5°	189.6	266.2	485.3	548.9	748.0	931.9	982.5	1014.3	1044.9	1049.7	1050.8
25°	170.8	243.8	484.2	559.6	776.3	951.9	990.7	1014.3	1032.0	1034.4	1034.4
27.5°	153.2	219.1	479.5	561.9	797.6	956.6	987.2	1003.7	1012.0	1016.6	1016.6
30°	137.8	195.6	467.7	557.2	807.0	951.9	976.6	984.8	993.1	1000.2	1003.7
32.5°	126.0	173.2	450.0	547.8	808.1	940.0	957.8	962.4	974.2	990.7	996.6
35°	115.4	150.8	430.0	534.8	801.1	921.2	933.0	937.8	961.3	986.1	994.2
37.5°	104.9	134.3	404.1	512.5	790.5	898.9	907.1	915.4	951.9	981.3	990.7
40°	94.2	120.2	373.5	487.7	774.0	871.8	878.8	891.8	940.0	974.2	983.7
42.5°	86.0	108.4	340.4	461.8	752.8	841.1	851.8	870.6	926.0	962.4	973.1
45°	79.0	96.6	305.1	426.4	725.7	809.4	824.6	850.5	909.5	944.8	954.2
47.5°	71.8	88.4	268.6	390.0	696.2	777.6	797.6	827.0	887.1	921.2	929.5
50°	66.0	80.1	232.0	351.1	664.4	743.4	766.9	797.6	858.8	890.6	901.2
52.5°	61.2	73.1	197.9	312.1	627.9	708.0	735.1	766.9	824.6	855.3	862.3
55°	56.6	67.2	168.5	271.0	590.2	670.3	699.7	730.4	787.0	812.9	817.6
57.5°	54.2	62.4	143.7	232.0	550.2	627.9	660.9	689.2	742.2	762.2	766.9
60°	50.7	58.9	124.9	199.1	506.6	587.8	616.1	644.4	689.2	705.6	709.2
62.5°	47.2	56.6	110.8	167.3	461.8	540.8	569.0	595.0	632.6	644.4	649.2
65°	44.8	54.2	100.1	143.7	415.9	491.2	519.5	541.9	572.6	584.3	586.7
67.5°	42.4	51.8	91.9	123.7	369.9	441.8	463.0	484.2	507.7	519.5	520.7
70°	38.9	49.4	84.8	109.5	322.8	385.2	402.9	425.3	444.2	450.0	453.6
72.5°	36.5	45.9	80.1	99.0	274.5	331.0	347.5	360.5	377.0	382.9	382.9
75°	33.0	41.2	75.4	88.4	225.0	271.0	285.1	298.0	311.0	313.4	309.9
77.5°	29.4	36.5	64.8	74.2	175.6	214.4	226.2	233.3	243.8	246.2	247.4
80°	24.8	31.8	50.7	57.7	127.3	157.8	166.1	172.0	181.5	181.5	183.7
82.5°	18.9	24.8	36.5	41.2	86.0	108.4	115.4	119.0	124.9	124.9	124.9
85°	11.8	15.3	23.5	27.1	51.8	66.0	70.7	71.8	76.6	77.7	77.7
87.5°	5.9	8.3	15.3	16.5	27.1	34.2	34.2	36.5	36.5	35.3	34.2
90°	1.8	3.2	4.6	4.9	7.7	11.5	13.4	11.9	8.9	6.7	6.7
92.5°	7.0	19.0	31.0	34.0	47.8	66.1	75.3	66.0	47.4	33.5	32.1
95°	16.9	38.7	60.7	66.1	117.4	185.8	220.1	196.4	149.0	113.5	109.4
97.5°	29.2	48.6	67.8	72.6	158.2	272.3	329.4	314.4	284.5	262.0	254.4
100°	38.7	56.2	73.7	78.1	173.0	299.6	362.9	364.1	366.3	367.9	358.8
102.5°	46.8	63.1	79.5	83.5	179.9	308.3	372.5	391.5	429.7	458.3	450.5
105°	60.5	74.4	88.3	91.7	185.0	309.2	371.4	414.2	499.8	563.9	559.7
107.5°	74.6	87.5	100.4	103.6	185.8	295.5	350.3	409.9	529.3	618.8	619.8
110°	84.1	95.7	107.4	110.3	184.4	283.3	332.7	399.4	532.8	632.8	637.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	93.5	104.5	115.6	118.4	184.5	272.6	316.7	385.0	521.4	623.9	630.6
115°	107.5	117.7	128.0	130.5	186.2	260.4	297.5	363.3	494.8	593.5	602.8
117.5°	121.4	130.7	140.0	142.4	189.7	252.8	284.3	343.7	462.3	551.4	561.8
120°	129.5	138.2	147.0	149.2	192.5	250.2	279.0	333.2	441.7	523.0	533.0
122.5°	137.4	146.2	155.1	157.3	196.6	248.8	275.0	323.8	421.5	494.7	504.7
125°	149.6	157.7	165.6	167.7	202.0	247.8	270.6	312.1	395.1	457.2	466.4
127.5°	159.4	167.5	175.7	177.7	207.5	247.1	266.9	302.6	373.8	427.2	434.9
130°	164.7	173.5	182.2	184.4	211.4	247.5	265.5	297.2	360.6	408.1	415.3
132.5°	170.1	178.9	187.6	189.8	214.7	247.8	264.3	292.6	349.4	392.0	398.4
135°	178.2	186.2	194.2	196.2	218.2	247.5	262.2	286.0	333.5	369.1	374.6
137.5°	186.5	194.4	202.3	204.3	223.4	249.0	261.8	281.9	322.1	352.2	356.7
140°	193.3	200.6	207.9	209.7	226.7	249.3	260.6	278.0	312.7	338.7	342.9
142.5°	198.7	205.3	212.1	213.8	229.4	250.2	260.6	275.9	306.4	329.2	332.8
145°	206.8	212.6	218.4	219.9	232.9	250.2	258.8	271.3	296.3	315.0	317.7
147.5°	214.8	220.5	226.3	227.7	238.0	251.9	258.8	268.7	288.3	302.9	305.2
150°	220.1	225.3	230.4	231.7	240.7	252.8	258.8	267.1	283.7	296.1	297.9
152.5°	225.5	229.4	233.4	234.3	242.5	253.4	258.8	265.9	280.0	290.6	292.0
155°	233.6	236.5	239.4	240.1	246.4	254.7	258.8	264.5	275.7	284.1	285.0
157.5°	239.6	242.4	245.2	245.9	250.2	255.9	258.8	263.2	271.9	278.5	279.1
160°	243.6	245.8	248.0	248.6	252.0	256.6	258.8	262.6	270.1	275.7	276.1
162.5°	247.7	249.3	250.9	251.4	253.8	257.2	258.8	262.0	268.3	273.1	273.4
165°	252.2	253.7	255.1	255.5	256.6	258.1	258.8	261.1	265.6	269.0	269.4
167.5°	256.2	256.9	257.6	257.8	258.7	260.0	260.6	262.1	265.1	267.3	267.4
170°	258.8	259.5	260.2	260.4	260.5	260.6	260.6	262.1	265.1	267.3	267.3
172.5°	260.2	260.4	260.6	260.6	260.6	260.6	260.6	261.7	264.1	265.9	265.7
175°	262.2	262.2	262.2	262.2	261.6	260.9	260.6	261.3	262.8	263.9	263.9
177.5°	262.2	262.2	262.2	262.2	261.7	261.2	260.9	261.6	262.7	263.6	263.4
180°	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2	262.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	366.3	366.3
2.5°	391.1	388.7
5°	503.0	505.4
7.5°	677.3	676.2
10°	842.3	852.9
12.5°	962.4	964.8
15°	1035.5	1040.3
17.5°	1063.8	1064.9
20°	1064.9	1062.6
22.5°	1052.0	1049.7
25°	1036.7	1035.5
27.5°	1022.5	1023.7
30°	1016.6	1020.2
32.5°	1016.6	1022.5
35°	1019.0	1024.9
37.5°	1017.9	1024.9
40°	1013.1	1021.4
42.5°	1000.2	1006.1
45°	980.2	987.2
47.5°	954.2	958.9
50°	921.2	926.0
52.5°	880.0	881.2
55°	830.5	835.3
57.5°	777.6	778.7
60°	718.6	722.1
62.5°	656.2	656.2
65°	590.2	592.6
67.5°	521.9	527.8
70°	452.4	453.6
72.5°	384.1	384.1
75°	313.4	314.5
77.5°	246.2	246.2
80°	182.6	183.7
82.5°	126.0	128.4
85°	79.0	79.0
87.5°	36.5	33.0
90°	6.7	6.7
92.5°	26.8	21.4
95°	93.4	77.2
97.5°	223.6	193.0
100°	322.2	285.7
102.5°	419.2	387.9
105°	542.9	526.0
107.5°	623.9	627.9
110°	654.7	672.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	657.5	684.4
115°	640.1	677.3
117.5°	603.1	644.5
120°	573.3	613.5
122.5°	544.3	583.9
125°	502.9	539.5
127.5°	465.7	496.5
130°	443.7	472.2
132.5°	423.9	449.3
135°	396.6	418.5
137.5°	374.7	392.7
140°	359.7	376.5
142.5°	347.3	361.7
145°	328.7	339.6
147.5°	314.3	323.4
150°	305.3	312.7
152.5°	297.6	303.1
155°	288.7	292.4
157.5°	281.8	284.3
160°	277.5	279.0
162.5°	274.8	276.2
165°	270.9	272.4
167.5°	268.1	268.7
170°	267.3	267.3
172.5°	265.2	264.6
175°	263.9	263.9
177.5°	262.8	262.2
180°	262.2	262.2



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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	3.91	4.95	4.75	5.81	6.89	17.09	18.13	17.92	18.99	20.07
	3H	4.63	5.56	5.48	6.44	7.54	18.94	19.88	19.79	20.75	21.85
	4H	4.94	5.82	5.80	6.70	7.81	19.60	20.48	20.46	21.36	22.47
	6H	5.20	6.01	6.07	6.90	8.03	20.04	20.86	20.91	21.74	22.87
	8H	5.27	6.05	6.15	6.95	8.08	20.16	20.94	21.05	21.85	22.97
	12H	5.29	6.04	6.18	6.93	8.09	20.24	20.98	21.13	21.88	23.03
4H	2H	11.15	12.03	12.02	12.91	14.03	17.39	18.27	18.25	19.15	20.26
	3H	12.73	13.48	13.61	14.39	15.52	19.45	20.19	20.33	21.10	22.23
	4H	12.84	13.51	13.73	14.42	15.57	20.22	20.90	21.11	21.81	22.96
	6H	12.86	13.44	13.76	14.37	15.53	20.77	21.36	21.68	22.29	23.45
	8H	12.84	13.39	13.75	14.31	15.48	20.94	21.49	21.85	22.41	23.59
	12H	12.80	13.30	13.73	14.24	15.42	21.04	21.54	21.97	22.48	23.66
8H	4H	14.30	14.85	15.20	15.77	16.94	20.30	20.85	21.21	21.77	22.95
	6H	14.55	15.00	15.48	15.97	17.14	20.94	21.39	21.87	22.36	23.53
	8H	14.57	14.97	15.51	15.93	17.12	21.16	21.56	22.11	22.52	23.71
	12H	14.54	14.90	15.49	15.85	17.09	21.31	21.67	22.26	22.62	23.86
12H	4H	14.45	14.94	15.38	15.89	17.07	20.26	20.76	21.19	21.70	22.88
	6H	14.81	15.21	15.75	16.17	17.36	20.92	21.33	21.87	22.28	23.47
	8H	14.89	15.24	15.84	16.19	17.43	21.16	21.52	22.11	22.47	23.71