

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: P936244

Luminaire Tested: SQ4-FB-025U-050D-92765-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936244
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-92765-1D-UNV-STD-W-8-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

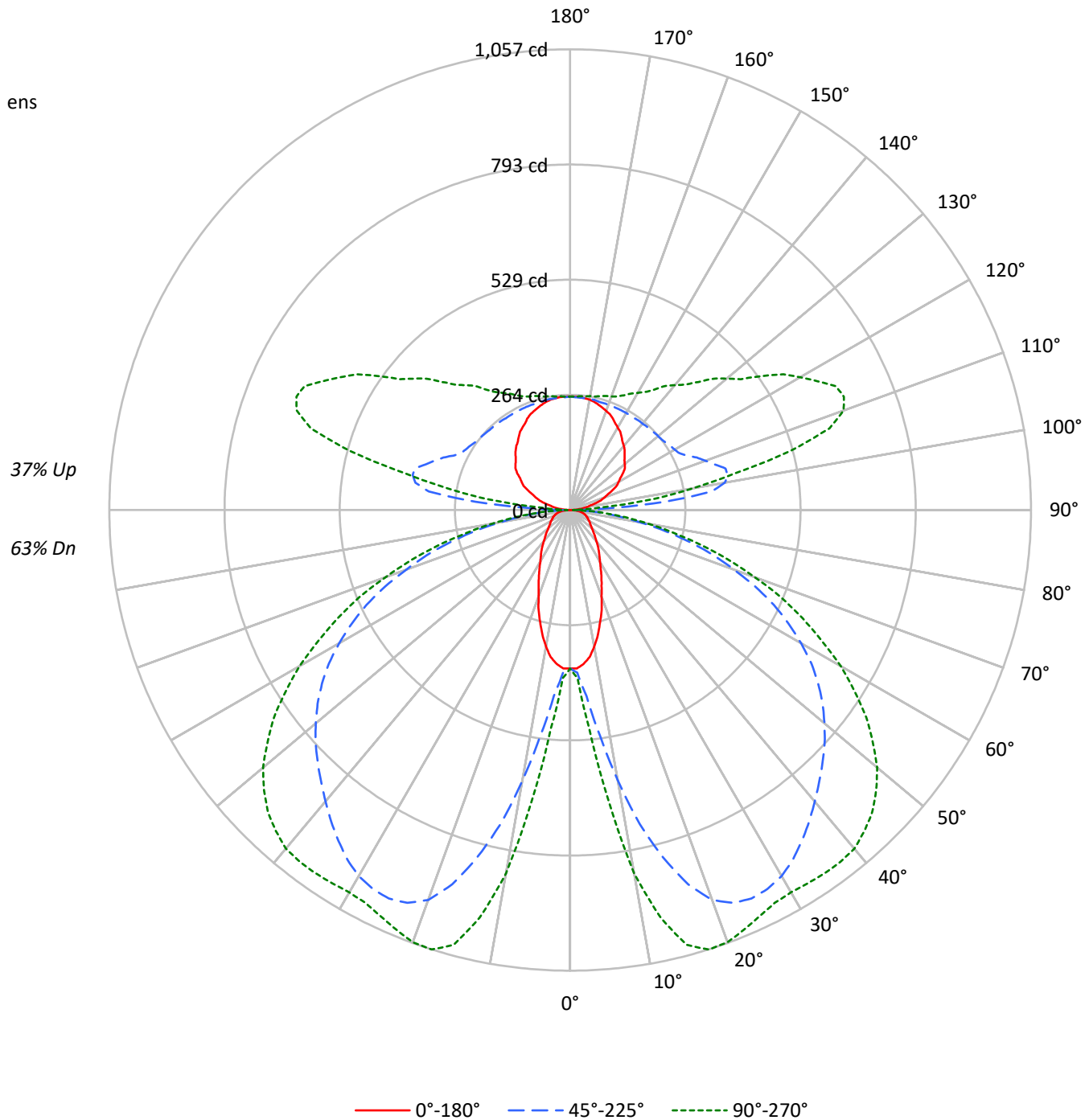
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4502.4 lumens
Efficiency: N/A
Efficacy: 102.3 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





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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°	1687	1687	1687
5°	1649	1951	2269
10°	1495	2844	3761
15°	1271	3715	4541
20°	1035	4305	4628
25°	863	4505	4534
30°	728	4533	4526
35°	643	4458	4643
40°	561	4360	4764
45°	508	4289	4782
50°	466	4224	4703
55°	447	4129	4495
60°	457	3948	4165
65°	476	3673	3714
70°	506	3203	3137
75°	562	2612	2448
80°	614	1811	1649
85°	545	961	845

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 4782 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.1	1.0
10°-20°	208.5	4.6
20°-30°	364.8	8.1
30°-40°	469.6	10.4
40°-50°	524.5	11.6
50°-60°	502.4	11.2
60°-70°	398.1	8.8
70°-80°	234.1	5.2
80°-90°	66.0	1.5
90°-100°	126.9	2.8
100°-110°	333.6	7.4
110°-120°	345.9	7.7
120°-130°	277.4	6.2
130°-140°	217.7	4.8
140°-150°	167.1	3.7
150°-160°	120.3	2.7
160°-170°	73.6	1.6
170°-180°	24.9	0.6
0°-30°	620.4	13.8
0°-40°	1090.0	24.2
0°-60°	2116.8	47.0
0°-90°	2815.1	62.5
90°-120°	806.3	17.9
90°-150°	1468.5	32.6
90°-180°	1687.0	37.5
0°-180°	4502.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	364	364	364	364	364	
5°	354	380	428	484	502	33
15°	266	490	826	1001	1033	74
25°	170	556	984	1027	1028	78
35°	115	531	926	979	1018	72
45°	78	423	819	938	980	61
55°	56	269	695	807	829	51
65°	44	143	516	580	588	44
75°	33	88	283	311	312	34
85°	12	27	70	77	78	12
90°	2	5	13	7	7	2
95°	17	66	218	113	77	19
105°	60	91	369	560	522	64
115°	107	130	295	589	672	105
125°	148	166	269	454	536	132
135°	177	195	260	366	416	137
145°	205	218	257	313	337	129
155°	232	238	257	282	290	107
165°	250	254	257	267	270	71
175°	260	260	259	262	262	25
180°	260	260	260	260	260	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7	363.7
2.5°	363.7	363.7	366.1	367.3	369.6	370.8	373.1	375.5	382.5	383.6	386.0
5°	354.4	359.1	374.3	380.1	396.5	418.8	428.1	443.3	474.9	484.2	490.1
7.5°	340.4	350.9	388.3	397.6	438.6	497.1	521.7	554.4	604.7	629.3	649.1
10°	318.1	340.4	407.1	429.3	495.9	584.8	630.5	676.1	752.0	786.0	798.9
12.5°	293.6	329.8	426.9	457.3	553.2	683.1	738.1	788.3	874.9	920.5	927.5
15°	265.5	314.6	445.6	490.1	614.1	764.9	825.8	887.7	968.5	1001.2	1009.4
17.5°	240.9	302.9	463.2	510.0	660.8	838.6	900.6	952.1	1017.6	1039.8	1045.7
20°	210.5	284.2	474.9	535.7	710.0	892.4	952.1	991.9	1036.3	1050.4	1052.7
22.5°	188.3	264.3	481.9	545.0	742.7	925.2	975.5	1007.1	1037.5	1042.2	1043.3
25°	169.6	242.1	480.8	555.6	770.8	945.1	983.7	1007.1	1024.6	1027.0	1027.0
27.5°	152.1	217.6	476.0	557.9	791.9	949.7	980.2	996.6	1004.8	1009.4	1009.4
30°	136.8	194.2	464.4	553.2	801.2	945.1	969.6	977.8	986.0	993.1	996.6
32.5°	125.1	172.0	446.8	543.9	802.4	933.3	951.0	955.6	967.3	983.7	989.5
35°	114.6	149.7	426.9	531.0	795.4	914.7	926.4	931.1	954.4	979.0	987.1
37.5°	104.1	133.3	401.2	508.8	784.8	892.4	900.6	908.8	945.1	974.3	983.7
40°	93.6	119.3	370.8	484.2	768.4	865.6	872.6	885.5	933.3	967.3	976.7
42.5°	85.4	107.6	338.0	458.5	747.4	835.1	845.7	864.4	919.4	955.6	966.1
45°	78.4	95.9	302.9	423.4	720.5	803.6	818.8	844.5	903.0	938.0	947.4
47.5°	71.3	87.7	266.7	387.2	691.3	772.0	791.9	821.1	880.8	914.7	922.9
50°	65.5	79.5	230.4	348.6	659.7	738.1	761.5	791.9	852.7	884.2	894.8
52.5°	60.8	72.6	196.5	309.9	623.4	702.9	729.9	761.5	818.8	849.2	856.2
55°	56.2	66.7	167.3	269.0	586.0	665.5	694.7	725.2	781.3	807.1	811.8
57.5°	53.8	62.0	142.7	230.4	546.2	623.4	656.2	684.3	736.9	756.8	761.5
60°	50.3	58.5	124.0	197.7	503.0	583.7	611.7	639.8	684.3	700.6	704.2
62.5°	46.8	56.2	110.0	166.1	458.5	536.9	564.9	590.7	628.1	639.8	644.5
65°	44.5	53.8	99.4	142.7	412.9	487.7	515.8	538.0	568.5	580.2	582.5
67.5°	42.1	51.5	91.2	122.8	367.3	438.6	459.6	480.8	504.1	515.8	516.9
70°	38.6	49.1	84.2	108.7	320.5	382.5	400.0	422.2	441.0	446.8	450.3
72.5°	36.3	45.6	79.5	98.3	272.5	328.7	345.1	357.9	374.3	380.1	380.1
75°	32.8	40.9	74.8	87.7	223.4	269.0	283.1	295.9	308.8	311.1	307.7
77.5°	29.2	36.3	64.4	73.7	174.3	212.9	224.5	231.6	242.1	244.4	245.7
80°	24.6	31.6	50.3	57.3	126.4	156.7	164.9	170.7	180.2	180.2	182.4
82.5°	18.7	24.6	36.3	40.9	85.4	107.6	114.6	118.2	124.0	124.0	124.0
85°	11.7	15.2	23.4	26.9	51.5	65.5	70.2	71.3	76.0	77.2	77.2
87.5°	5.8	8.2	15.2	16.4	26.9	33.9	33.9	36.3	36.3	35.1	33.9
90°	1.7	3.1	4.5	4.9	7.7	11.4	13.3	11.8	8.8	6.6	6.6
92.5°	7.0	18.8	30.8	33.7	47.4	65.7	74.7	65.5	47.1	33.2	31.9
95°	16.7	38.5	60.3	65.7	116.6	184.5	218.5	195.0	148.0	112.7	108.7
97.5°	29.0	48.2	67.3	72.1	157.1	270.3	327.0	312.2	282.5	260.1	252.5
100°	38.5	55.8	73.2	77.5	171.8	297.5	360.3	361.5	363.6	365.3	356.2
102.5°	46.5	62.7	78.9	82.9	178.6	306.1	369.8	388.8	426.6	455.0	447.3
105°	60.1	73.9	87.6	91.0	183.7	307.0	368.8	411.3	496.2	559.8	555.7
107.5°	74.0	86.9	99.7	102.9	184.5	293.4	347.8	407.0	525.5	614.3	615.4
110°	83.5	95.1	106.6	109.5	183.1	281.2	330.3	396.5	529.0	628.3	632.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	92.8	103.8	114.8	117.6	183.2	270.7	314.5	382.2	517.7	619.4	626.1
115°	106.7	116.9	127.1	129.6	184.9	258.6	295.4	360.7	491.3	589.2	598.5
117.5°	120.5	129.8	139.0	141.4	188.4	251.0	282.3	341.2	459.0	547.5	557.8
120°	128.5	137.3	146.0	148.2	191.1	248.4	277.0	330.8	438.5	519.3	529.2
122.5°	136.4	145.2	154.0	156.2	195.2	247.0	273.0	321.5	418.5	491.2	501.1
125°	148.5	156.5	164.5	166.5	200.6	246.0	268.7	309.8	392.2	454.0	463.1
127.5°	158.3	166.3	174.4	176.4	206.0	245.3	265.0	300.4	371.1	424.2	431.8
130°	163.5	172.2	180.9	183.0	209.9	245.7	263.6	295.1	358.1	405.2	412.3
132.5°	168.9	177.6	186.3	188.4	213.1	246.0	262.4	290.6	346.9	389.2	395.6
135°	176.9	184.9	192.8	194.8	216.6	245.7	260.3	283.9	331.1	366.5	371.9
137.5°	185.1	193.0	200.8	202.8	221.8	247.2	260.0	279.9	319.8	349.7	354.1
140°	191.9	199.2	206.4	208.2	225.1	247.5	258.7	276.0	310.4	336.3	340.4
142.5°	197.3	203.9	210.6	212.3	227.8	248.4	258.7	273.9	304.2	326.8	330.4
145°	205.3	211.1	216.9	218.4	231.3	248.4	257.0	269.4	294.1	312.7	315.4
147.5°	213.3	219.0	224.6	226.0	236.3	250.1	257.0	266.8	286.2	300.8	303.0
150°	218.5	223.7	228.7	230.0	239.0	251.0	257.0	265.2	281.7	294.0	295.8
152.5°	223.9	227.8	231.7	232.7	240.8	251.6	257.0	264.0	278.0	288.6	290.0
155°	232.0	234.8	237.7	238.4	244.6	252.9	257.0	262.6	273.7	282.1	283.0
157.5°	237.9	240.7	243.5	244.2	248.4	254.1	257.0	261.3	270.0	276.5	277.1
160°	241.9	244.1	246.3	246.8	250.2	254.7	257.0	260.7	268.2	273.7	274.1
162.5°	245.9	247.6	249.1	249.6	252.0	255.3	257.0	260.1	266.4	271.1	271.5
165°	250.4	251.8	253.3	253.7	254.8	256.3	257.0	259.3	263.7	267.1	267.5
167.5°	254.4	255.1	255.8	255.9	256.9	258.1	258.7	260.2	263.2	265.4	265.5
170°	257.0	257.7	258.4	258.6	258.6	258.7	258.7	260.2	263.2	265.4	265.4
172.5°	258.4	258.6	258.7	258.7	258.7	258.7	258.7	259.9	262.2	264.0	263.8
175°	260.3	260.3	260.3	260.3	259.8	259.1	258.7	259.4	260.9	262.0	262.0
177.5°	260.3	260.3	260.3	260.3	259.9	259.3	259.1	259.7	260.8	261.7	261.5
180°	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3	260.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	363.7	363.7
2.5°	388.3	386.0
5°	499.4	501.8
7.5°	672.5	671.4
10°	836.3	846.8
12.5°	955.6	957.9
15°	1028.1	1032.8
17.5°	1056.2	1057.3
20°	1057.3	1055.0
22.5°	1044.5	1042.2
25°	1029.3	1028.1
27.5°	1015.2	1016.4
30°	1009.4	1013.0
32.5°	1009.4	1015.2
35°	1011.7	1017.6
37.5°	1010.6	1017.6
40°	1005.9	1014.1
42.5°	993.1	998.9
45°	973.2	980.2
47.5°	947.4	952.1
50°	914.7	919.4
52.5°	873.7	874.9
55°	824.6	829.3
57.5°	772.0	773.1
60°	713.5	717.0
62.5°	651.5	651.5
65°	586.0	588.4
67.5°	518.2	524.0
70°	449.2	450.3
72.5°	381.3	381.3
75°	311.1	312.3
77.5°	244.4	244.4
80°	181.3	182.4
82.5°	125.1	127.5
85°	78.4	78.4
87.5°	36.3	32.8
90°	6.6	6.6
92.5°	26.6	21.3
95°	92.7	76.7
97.5°	222.0	191.6
100°	319.9	283.7
102.5°	416.2	385.2
105°	539.0	522.3
107.5°	619.4	623.4
110°	650.0	667.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	652.8	679.5
115°	635.5	672.5
117.5°	598.8	639.9
120°	569.2	609.1
122.5°	540.4	579.7
125°	499.3	535.6
127.5°	462.4	493.0
130°	440.6	468.8
132.5°	420.8	446.1
135°	393.7	415.5
137.5°	372.0	389.9
140°	357.1	373.8
142.5°	344.8	359.1
145°	326.3	337.1
147.5°	312.0	321.1
150°	303.1	310.4
152.5°	295.4	300.9
155°	286.6	290.3
157.5°	279.7	282.3
160°	275.6	277.0
162.5°	272.9	274.3
165°	268.9	270.4
167.5°	266.1	266.8
170°	265.4	265.4
172.5°	263.3	262.7
175°	262.0	262.0
177.5°	260.9	260.3
180°	260.3	260.3



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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	3.89	4.93	4.72	5.79	6.87	17.07	18.11	17.90	18.97	20.04
	3H	4.61	5.54	5.45	6.41	7.52	18.92	19.86	19.77	20.73	21.83
	4H	4.91	5.80	5.78	6.68	7.79	19.57	20.46	20.43	21.34	22.45
	6H	5.17	5.99	6.05	6.88	8.00	20.01	20.83	20.89	21.72	22.84
	8H	5.25	6.03	6.13	6.93	8.06	20.14	20.92	21.02	21.82	22.95
	12H	5.27	6.01	6.16	6.91	8.07	20.21	20.96	21.10	21.85	23.01
4H	2H	11.13	12.01	11.99	12.89	14.00	17.36	18.25	18.23	19.13	20.24
	3H	12.71	13.45	13.59	14.36	15.49	19.42	20.17	20.30	21.08	22.21
	4H	12.81	13.49	13.70	14.39	15.55	20.20	20.88	21.09	21.78	22.94
	6H	12.83	13.42	13.74	14.35	15.51	20.75	21.34	21.65	22.27	23.42
	8H	12.81	13.36	13.72	14.29	15.46	20.92	21.46	21.82	22.39	23.56
	12H	12.78	13.28	13.71	14.22	15.40	21.02	21.51	21.95	22.46	23.63
8H	4H	14.27	14.82	15.18	15.75	16.92	20.28	20.82	21.18	21.75	22.92
	6H	14.52	14.98	15.46	15.94	17.11	20.91	21.37	21.85	22.33	23.51
	8H	14.54	14.95	15.49	15.90	17.09	21.13	21.54	22.08	22.50	23.68
	12H	14.52	14.88	15.47	15.83	17.06	21.29	21.64	22.24	22.59	23.83
12H	4H	14.42	14.92	15.35	15.86	17.04	20.24	20.73	21.17	21.68	22.85
	6H	14.78	15.19	15.73	16.14	17.33	20.90	21.30	21.84	22.26	23.45
	8H	14.86	15.22	15.81	16.17	17.41	21.14	21.49	22.09	22.44	23.68