

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: P936350

Luminaire Tested: SQ4-FB-025U-075D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936350
REPORT IS A COMBINATION OF REPORTS P933438 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-930-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

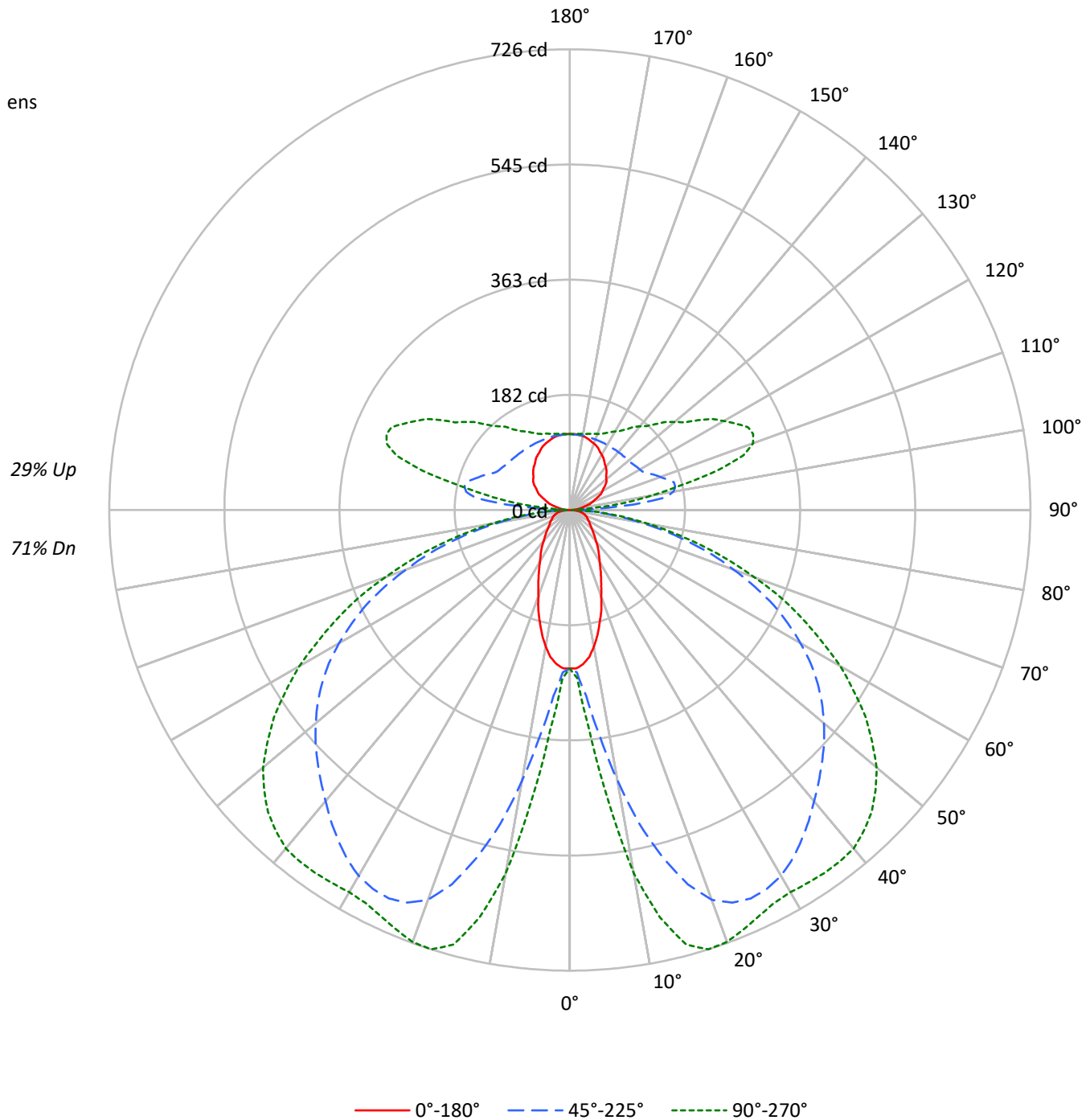
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2709.2 lumens
Efficiency: N/A
Efficacy: 90.3 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): 30
Input Voltage (V): NR
Input Current (Ain): 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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	66	64	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	57	54	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	50	46	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	44	40	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	39	34	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	35	30	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	32	27	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	29	24	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	26	22	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	24	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2317	2317	2317
5°	2261	2676	3115
10°	2049	3898	5164
15°	1740	5089	6235
20°	1414	5893	6355
25°	1178	6163	6225
30°	993	6197	6214
35°	876	6089	6375
40°	762	5950	6541
45°	689	5847	6566
50°	631	5754	6458
55°	601	5618	6171
60°	614	5365	5719
65°	636	4981	5098
70°	673	4335	4308
75°	738	3525	3361
80°	791	2436	2265
85°	662	1286	1159

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6566 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	1.2
10°-20°	143.2	5.3
20°-30°	250.4	9.2
30°-40°	322.4	11.9
40°-50°	360.1	13.3
50°-60°	344.9	12.7
60°-70°	273.3	10.1
70°-80°	160.7	5.9
80°-90°	45.1	1.7
90°-100°	58.4	2.2
100°-110°	153.6	5.7
110°-120°	159.2	5.9
120°-130°	127.7	4.7
130°-140°	100.2	3.7
140°-150°	76.9	2.8
150°-160°	55.4	2.0
160°-170°	33.9	1.3
170°-180°	11.4	0.4
0°-30°	425.9	15.7
0°-40°	748.3	27.6
0°-60°	1453.3	53.6
0°-90°	1932.4	71.3
90°-120°	371.2	13.7
90°-150°	676.1	25.0
90°-180°	777.0	28.7
0°-180°	2709.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	250	250	250	250	250	
5°	243	261	294	332	344	22
15°	182	336	567	687	709	51
25°	116	381	675	705	706	54
35°	79	365	636	672	699	49
45°	54	291	562	644	673	42
55°	38	185	477	554	569	35
65°	30	98	354	398	404	30
75°	22	60	194	214	214	24
85°	8	18	48	53	54	8
90°	1	2	6	3	3	1
95°	8	30	101	52	35	9
105°	28	42	170	258	240	29
115°	49	60	136	271	310	49
125°	68	77	124	209	247	61
135°	82	90	120	169	191	63
145°	94	100	118	144	155	59
155°	107	110	118	130	134	49
165°	115	117	118	123	124	33
175°	120	120	119	121	121	11
180°	120	120	120	120	120	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7	249.7
2.5°	249.7	249.7	251.3	252.1	253.7	254.6	256.2	257.8	262.6	263.4	265.0
5°	243.3	246.5	257.0	261.0	272.2	287.5	293.9	304.3	326.0	332.4	336.5
7.5°	233.7	240.9	266.6	273.0	301.1	341.3	358.1	380.6	415.2	432.0	445.7
10°	218.4	233.7	279.4	294.7	340.5	401.5	432.8	464.1	516.3	539.6	548.4
12.5°	201.6	226.4	293.1	314.0	379.8	469.0	506.7	541.2	600.6	632.0	636.8
15°	182.3	216.0	305.9	336.5	421.6	525.2	566.9	609.5	664.9	687.4	693.0
17.5°	165.4	208.0	318.0	350.1	453.7	575.8	618.3	653.6	698.6	713.9	717.9
20°	144.5	195.1	326.0	367.8	487.4	612.7	653.6	680.9	711.5	721.1	722.7
22.5°	129.3	181.5	330.8	374.2	509.9	635.2	669.7	691.4	712.3	715.5	716.3
25°	116.4	166.2	330.0	381.4	529.2	648.8	675.3	691.4	703.4	705.0	705.0
27.5°	104.4	149.4	326.8	383.0	543.6	652.0	672.9	684.2	689.8	693.0	693.0
30°	94.0	133.3	318.8	379.8	550.1	648.8	665.7	671.3	676.9	681.7	684.2
32.5°	85.9	118.0	306.7	373.4	550.9	640.8	652.8	656.1	664.1	675.3	679.3
35°	78.7	102.8	293.1	364.6	546.0	627.9	636.0	639.2	655.2	672.1	677.7
37.5°	71.5	91.5	275.4	349.3	538.8	612.7	618.3	623.9	648.8	668.9	675.3
40°	64.2	81.9	254.6	332.4	527.6	594.2	599.0	607.9	640.8	664.1	670.5
42.5°	58.6	73.9	232.1	314.8	513.1	573.3	580.6	593.4	631.2	656.1	663.3
45°	53.8	65.8	208.0	290.7	494.6	551.7	562.1	579.8	619.9	644.0	650.4
47.5°	49.0	60.2	183.1	265.8	474.6	530.0	543.6	563.7	604.7	627.9	633.6
50°	45.0	54.6	158.2	239.3	452.9	506.7	522.8	543.6	585.4	607.1	614.3
52.5°	41.8	49.8	134.9	212.8	428.0	482.6	501.1	522.8	562.1	583.0	587.8
55°	38.5	45.8	114.8	184.7	402.3	456.9	477.0	497.9	536.4	554.1	557.3
57.5°	36.9	42.6	98.0	158.2	375.0	428.0	450.5	469.8	505.9	519.5	522.8
60°	34.5	40.2	85.1	135.7	345.3	400.7	420.0	439.2	469.8	481.0	483.4
62.5°	32.1	38.5	75.5	114.0	314.8	368.6	387.8	405.5	431.2	439.2	442.5
65°	30.5	36.9	68.3	98.0	283.5	334.9	354.1	369.4	390.3	398.3	399.9
67.5°	28.9	35.3	62.6	84.3	252.1	301.1	315.6	330.0	346.1	354.1	354.9
70°	26.5	33.7	57.8	74.7	220.0	262.6	274.6	289.9	302.7	306.7	309.2
72.5°	24.9	31.3	54.6	67.5	187.1	225.6	236.9	245.7	257.0	261.0	261.0
75°	22.5	28.1	51.4	60.2	153.4	184.7	194.3	203.2	212.0	213.6	211.2
77.5°	20.1	24.9	44.2	50.6	119.6	146.1	154.2	159.0	166.2	167.8	168.6
80°	16.9	21.7	34.5	39.3	86.7	107.6	113.2	117.2	123.7	123.7	125.3
82.5°	12.8	16.9	24.9	28.1	58.6	73.9	78.7	81.1	85.1	85.1	85.1
85°	8.0	10.4	16.1	18.5	35.3	45.0	48.2	49.0	52.2	53.0	53.0
87.5°	4.0	5.6	10.4	11.2	18.5	23.3	23.3	24.9	24.9	24.1	23.3
90°	0.8	1.4	2.1	2.2	3.5	5.2	6.1	5.5	4.1	3.1	3.1
92.5°	3.2	8.7	14.1	15.5	21.8	30.3	34.4	30.2	21.7	15.3	14.6
95°	7.7	17.7	27.8	30.3	53.7	85.0	100.6	89.8	68.1	51.9	50.0
97.5°	13.3	22.2	31.0	33.2	72.4	124.5	150.6	143.7	130.0	119.7	116.2
100°	17.7	25.7	33.7	35.7	79.1	137.0	165.9	166.4	167.4	168.1	164.0
102.5°	21.4	28.8	36.4	38.2	82.2	140.9	170.2	179.0	196.4	209.5	205.9
105°	27.7	34.0	40.3	41.9	84.6	141.3	169.8	189.3	228.5	257.8	255.8
107.5°	34.1	40.0	45.9	47.4	85.0	135.1	160.1	187.4	241.9	282.9	283.4
110°	38.5	43.8	49.1	50.4	84.3	129.5	152.1	182.6	243.5	289.3	291.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	42.7	47.8	52.8	54.1	84.3	124.6	144.8	176.0	238.4	285.2	288.3
115°	49.1	53.8	58.5	59.7	85.1	119.1	136.0	166.1	226.2	271.3	275.5
117.5°	55.5	59.7	64.0	65.0	86.7	115.6	130.0	157.1	211.3	252.1	256.8
120°	59.2	63.2	67.2	68.2	87.9	114.3	127.5	152.3	202.0	239.1	243.7
122.5°	62.8	66.8	70.8	71.9	89.8	113.7	125.7	148.0	192.6	226.1	230.6
125°	68.3	72.0	75.7	76.7	92.3	113.2	123.7	142.6	180.6	209.0	213.2
127.5°	72.8	76.6	80.3	81.3	94.8	112.9	122.0	138.3	170.9	195.3	198.8
130°	75.2	79.3	83.3	84.3	96.7	113.1	121.3	135.9	164.9	186.6	189.8
132.5°	77.8	81.8	85.8	86.8	98.1	113.2	120.8	133.8	159.7	179.2	182.1
135°	81.5	85.1	88.8	89.7	99.7	113.1	119.8	130.6	152.4	168.7	171.2
137.5°	85.3	88.9	92.5	93.4	102.1	113.8	119.6	128.8	147.2	161.0	163.1
140°	88.4	91.7	95.1	95.9	103.6	113.9	119.1	127.0	142.9	154.8	156.7
142.5°	90.8	93.9	96.9	97.7	104.9	114.3	119.1	126.1	140.0	150.5	152.2
145°	94.5	97.2	99.9	100.5	106.5	114.3	118.3	124.0	135.4	144.0	145.3
147.5°	98.2	100.8	103.4	104.1	108.8	115.2	118.3	122.8	131.8	138.5	139.6
150°	100.6	102.9	105.4	105.9	110.0	115.6	118.3	122.1	129.7	135.4	136.2
152.5°	103.1	104.9	106.6	107.1	110.8	115.8	118.3	121.5	128.0	132.9	133.5
155°	106.8	108.1	109.4	109.8	112.6	116.4	118.3	120.9	126.1	129.9	130.3
157.5°	109.5	110.8	112.1	112.4	114.3	117.0	118.3	120.3	124.3	127.3	127.6
160°	111.4	112.3	113.4	113.6	115.2	117.2	118.3	120.0	123.4	126.0	126.2
162.5°	113.2	113.9	114.7	114.9	116.0	117.6	118.3	119.7	122.6	124.8	124.9
165°	115.2	115.9	116.6	116.8	117.2	118.0	118.3	119.3	121.4	122.9	123.1
167.5°	117.1	117.4	117.7	117.8	118.2	118.8	119.1	119.7	121.1	122.1	122.2
170°	118.3	118.6	118.9	119.0	119.0	119.1	119.1	119.7	121.1	122.1	122.1
172.5°	118.9	119.0	119.1	119.1	119.1	119.1	119.1	119.6	120.7	121.5	121.4
175°	119.8	119.8	119.8	119.8	119.6	119.2	119.1	119.4	120.1	120.6	120.6
177.5°	119.8	119.8	119.8	119.8	119.6	119.4	119.2	119.5	120.0	120.4	120.4
180°	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8	119.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	249.7	249.7
2.5°	266.6	265.0
5°	342.9	344.5
7.5°	461.7	460.9
10°	574.1	581.4
12.5°	656.1	657.7
15°	705.8	709.0
17.5°	725.1	725.9
20°	725.9	724.3
22.5°	717.1	715.5
25°	706.6	705.8
27.5°	697.0	697.8
30°	693.0	695.4
32.5°	693.0	697.0
35°	694.6	698.6
37.5°	693.8	698.6
40°	690.6	696.2
42.5°	681.7	685.8
45°	668.1	672.9
47.5°	650.4	653.6
50°	627.9	631.2
52.5°	599.8	600.6
55°	566.1	569.3
57.5°	530.0	530.8
60°	489.8	492.2
62.5°	447.3	447.3
65°	402.3	403.9
67.5°	355.7	359.7
70°	308.4	309.2
72.5°	261.8	261.8
75°	213.6	214.4
77.5°	167.8	167.8
80°	124.5	125.3
82.5°	85.9	87.5
85°	53.8	53.8
87.5°	24.9	22.5
90°	3.1	3.1
92.5°	12.2	9.8
95°	42.7	35.3
97.5°	102.2	88.2
100°	147.4	130.6
102.5°	191.6	177.3
105°	248.2	240.5
107.5°	285.2	287.1
110°	299.3	307.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	300.6	312.8
115°	292.6	309.6
117.5°	275.7	294.6
120°	262.1	280.4
122.5°	248.8	266.9
125°	229.9	246.6
127.5°	212.9	226.9
130°	202.8	215.8
132.5°	193.8	205.4
135°	181.3	191.4
137.5°	171.3	179.6
140°	164.4	172.1
142.5°	158.8	165.3
145°	150.2	155.2
147.5°	143.7	147.8
150°	139.6	142.9
152.5°	136.0	138.6
155°	132.0	133.7
157.5°	128.8	130.0
160°	126.9	127.5
162.5°	125.6	126.2
165°	123.8	124.5
167.5°	122.5	122.8
170°	122.1	122.1
172.5°	121.2	120.9
175°	120.6	120.6
177.5°	120.1	119.8
180°	119.8	119.8



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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	5.65	6.81	6.39	7.58	8.50	18.79	19.94	19.53	20.71	21.64
	3H	6.38	7.42	7.13	8.20	9.16	20.64	21.68	21.39	22.46	23.41
	4H	6.69	7.68	7.46	8.46	9.43	21.28	22.27	22.06	23.06	24.02
	6H	6.96	7.87	7.74	8.66	9.65	21.72	22.63	22.50	23.42	24.41
	8H	7.03	7.90	7.83	8.72	9.70	21.84	22.71	22.64	23.53	24.51
	12H	7.06	7.89	7.86	8.70	9.71	21.91	22.74	22.71	23.55	24.56
4H	2H	12.88	13.86	13.65	14.65	15.62	19.10	20.09	19.88	20.87	21.84
	3H	14.47	15.30	15.26	16.12	17.11	21.16	21.98	21.95	22.81	23.79
	4H	14.58	15.33	15.38	16.16	17.17	21.93	22.68	22.73	23.50	24.52
	6H	14.61	15.26	15.43	16.11	17.13	22.47	23.13	23.29	23.97	24.99
	8H	14.59	15.21	15.42	16.05	17.08	22.63	23.25	23.46	24.09	25.12
	12H	14.57	15.12	15.41	15.98	17.02	22.73	23.29	23.58	24.15	25.19
8H	4H	16.04	16.65	16.86	17.49	18.53	22.01	22.63	22.84	23.47	24.50
	6H	16.30	16.81	17.15	17.69	18.72	22.64	23.15	23.50	24.04	25.07
	8H	16.32	16.77	17.18	17.65	18.70	22.86	23.31	23.72	24.19	25.24
	12H	16.30	16.70	17.17	17.57	18.67	23.01	23.41	23.88	24.28	25.38
12H	4H	16.19	16.75	17.04	17.61	18.65	21.98	22.53	22.83	23.40	24.43
	6H	16.55	17.01	17.42	17.89	18.94	22.63	23.09	23.50	23.96	25.01
	8H	16.64	17.04	17.51	17.91	19.01	22.87	23.27	23.74	24.14	25.24