

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: P936336

Luminaire Tested: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

**Test Information**

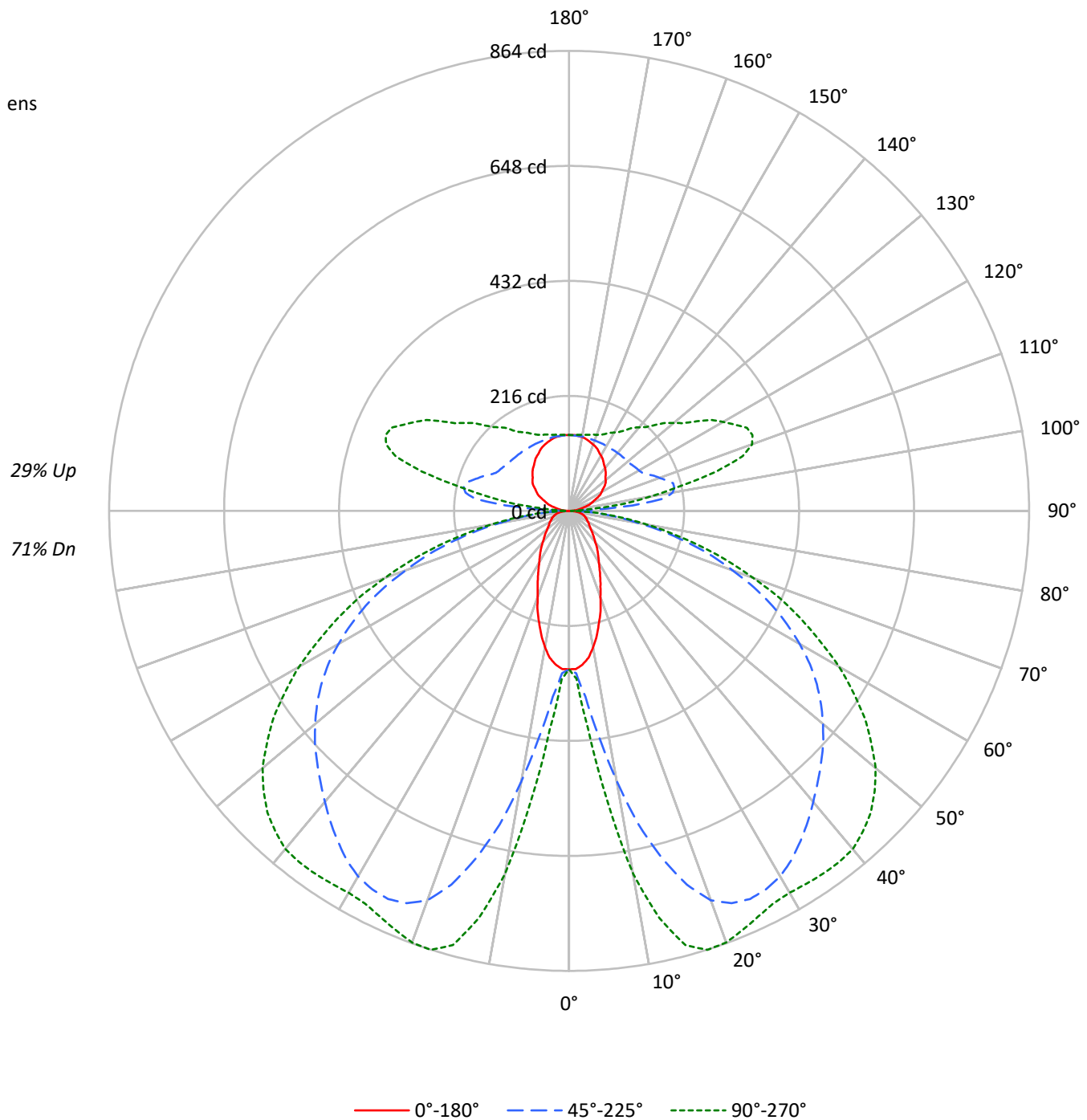
Test Method: LM-79-2019  
Report Number: P936336  
REPORT IS A COMBINATION OF REPORTS P933438 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-4-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3226.1 lumens  
Efficiency: N/A  
Efficacy: 107.5 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

TEST NUMBER: P936336  
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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
RCR																				
0	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71		
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	58		
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	48		
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	39		
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	33		
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28		
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	24		
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	21		
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18		
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	16		
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	14		

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	2760	2760	2760
5°	2693	3187	3709
10°	2440	4642	6149
15°	2072	6061	7425
20°	1684	7018	7567
25°	1403	7339	7413
30°	1182	7379	7400
35°	1043	7251	7591
40°	908	7086	7788
45°	821	6962	7819
50°	750	6851	7690
55°	717	6690	7348
60°	731	6388	6810
65°	756	5932	6071
70°	802	5163	5128
75°	879	4199	4002
80°	941	2901	2698
85°	795	1532	1381

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 7819 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.5	1.2
10°-20°	170.5	5.3
20°-30°	298.2	9.2
30°-40°	383.9	11.9
40°-50°	428.8	13.3
50°-60°	410.7	12.7
60°-70°	325.5	10.1
70°-80°	191.4	5.9
80°-90°	53.7	1.7
90°-100°	69.6	2.2
100°-110°	182.9	5.7
110°-120°	189.6	5.9
120°-130°	152.1	4.7
130°-140°	119.3	3.7
140°-150°	91.6	2.8
150°-160°	66.0	2.0
160°-170°	40.4	1.3
170°-180°	13.6	0.4
0°-30°	507.2	15.7
0°-40°	891.0	27.6
0°-60°	1730.5	53.6
0°-90°	2301.0	71.3
90°-120°	442.1	13.7
90°-150°	805.1	25.0
90°-180°	925.0	28.7
0°-180°	3226.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	297	297	297	297	297	
5°	290	311	350	396	410	27
15°	217	401	675	818	844	60
25°	139	454	804	840	840	64
35°	94	434	757	800	832	59
45°	64	346	669	767	801	50
55°	46	220	568	660	678	42
65°	36	117	422	474	481	36
75°	27	72	231	254	255	28
85°	10	22	57	63	64	10
90°	1	3	7	4	4	1
95°	9	36	120	62	42	10
105°	33	50	202	307	286	35
115°	58	71	162	323	369	58
125°	81	91	147	249	294	72
135°	97	107	143	201	228	75
145°	112	120	141	171	185	70
155°	127	131	141	155	159	58
165°	137	139	141	146	148	39
175°	143	143	142	144	144	14
180°	143	143	143	143	143	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4	297.4
2.5°	297.4	297.4	299.3	300.2	302.2	303.1	305.0	306.9	312.7	313.6	315.5
5°	289.7	293.6	306.0	310.8	324.1	342.3	350.0	362.4	388.2	395.9	400.6
7.5°	278.3	286.9	317.5	325.1	358.6	406.4	426.5	453.2	494.4	514.4	530.7
10°	260.1	278.3	332.8	350.9	405.4	478.1	515.4	552.7	614.8	642.6	653.1
12.5°	240.0	269.6	349.0	373.9	452.3	558.4	603.4	644.5	715.2	752.5	758.3
15°	217.1	257.2	364.3	400.6	502.0	625.4	675.1	725.8	791.7	818.5	825.2
17.5°	197.0	247.7	378.7	416.9	540.2	685.6	736.3	778.3	831.9	850.1	854.8
20°	172.1	232.4	388.2	437.9	580.4	729.6	778.3	810.9	847.2	858.7	860.6
22.5°	153.9	216.1	394.0	445.6	607.2	756.3	797.5	823.3	848.1	852.0	852.9
25°	138.6	197.9	393.0	454.2	630.1	772.6	804.2	823.3	837.6	839.5	839.5
27.5°	124.3	177.9	389.2	456.1	647.3	776.4	801.3	814.7	821.4	825.2	825.2
30°	111.9	158.7	379.6	452.3	655.0	772.6	792.7	799.4	806.1	811.8	814.7
32.5°	102.3	140.6	365.3	444.6	655.9	763.0	777.4	781.2	790.8	804.2	808.9
35°	93.7	122.4	349.0	434.1	650.2	747.7	757.3	761.1	780.3	800.3	807.0
37.5°	85.1	109.0	328.0	415.9	641.6	729.6	736.3	743.0	772.6	796.5	804.2
40°	76.5	97.5	303.1	395.9	628.2	707.6	713.3	723.8	763.0	790.8	798.4
42.5°	69.8	88.0	276.3	374.8	611.0	682.7	691.3	706.6	751.6	781.2	789.8
45°	64.1	78.4	247.7	346.1	589.0	656.9	669.3	690.4	738.2	766.9	774.5
47.5°	58.3	71.7	218.0	316.5	565.1	631.1	647.3	671.2	720.0	747.7	754.4
50°	53.5	65.0	188.4	284.9	539.3	603.4	622.5	647.3	697.1	722.9	731.5
52.5°	49.7	59.3	160.6	253.4	509.7	574.7	596.7	622.5	669.3	694.2	699.9
55°	45.9	54.5	136.7	219.9	479.1	544.1	568.0	592.8	638.7	659.8	663.6
57.5°	44.0	50.7	116.7	188.4	446.5	509.7	536.4	559.4	602.4	618.7	622.5
60°	41.1	47.8	101.4	161.6	411.2	477.1	500.1	523.0	559.4	572.8	575.6
62.5°	38.2	45.9	89.9	135.8	374.8	438.9	461.8	482.9	513.5	523.0	526.9
65°	36.3	44.0	81.3	116.7	337.5	398.7	421.7	439.8	464.7	474.3	476.2
67.5°	34.4	42.1	74.6	100.4	300.2	358.6	375.8	393.0	412.1	421.7	422.6
70°	31.6	40.2	68.8	88.9	262.0	312.7	327.0	345.2	360.5	365.3	368.1
72.5°	29.6	37.3	65.0	80.3	222.8	268.7	282.1	292.6	306.0	310.8	310.8
75°	26.8	33.5	61.2	71.7	182.6	219.9	231.4	241.9	252.4	254.3	251.5
77.5°	23.9	29.6	52.6	60.2	142.5	174.0	183.6	189.3	197.9	199.8	200.8
80°	20.1	25.8	41.1	46.9	103.3	128.1	134.8	139.6	147.3	147.3	149.2
82.5°	15.3	20.1	29.6	33.5	69.8	88.0	93.7	96.6	101.4	101.4	101.4
85°	9.6	12.4	19.1	22.0	42.1	53.5	57.4	58.3	62.2	63.1	63.1
87.5°	4.8	6.7	12.4	13.4	22.0	27.7	27.7	29.6	29.6	28.7	27.7
90°	1.0	1.7	2.5	2.7	4.2	6.2	7.3	6.5	4.9	3.6	3.6
92.5°	3.8	10.3	16.8	18.5	26.0	36.0	41.0	36.0	25.8	18.2	17.4
95°	9.2	21.1	33.1	36.0	64.0	101.2	119.8	106.9	81.1	61.8	59.6
97.5°	15.9	26.4	36.9	39.6	86.2	148.2	179.3	171.2	154.8	142.6	138.4
100°	21.0	30.6	40.2	42.6	94.2	163.1	197.5	198.1	199.4	200.2	195.3
102.5°	25.4	34.3	43.3	45.5	97.9	167.8	202.7	213.1	233.9	249.5	245.2
105°	33.0	40.5	48.0	49.9	100.7	168.3	202.1	225.5	272.0	306.9	304.6
107.5°	40.6	47.6	54.7	56.4	101.2	160.8	190.7	223.2	288.1	336.9	337.4
110°	45.8	52.1	58.4	60.0	100.4	154.2	181.1	217.4	290.0	344.5	346.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	50.9	56.9	62.9	64.4	100.4	148.4	172.4	209.6	283.9	339.6	343.3
115°	58.5	64.1	69.6	71.0	101.4	141.8	162.0	197.7	269.4	323.0	328.1
117.5°	66.1	71.1	76.2	77.5	103.3	137.6	154.8	187.1	251.7	300.1	305.8
120°	70.5	75.3	80.0	81.2	104.7	136.2	151.8	181.4	240.5	284.8	290.2
122.5°	74.8	79.6	84.3	85.6	106.9	135.4	149.6	176.2	229.4	269.3	274.6
125°	81.4	85.8	90.2	91.3	110.0	134.8	147.3	169.8	215.0	248.9	253.9
127.5°	86.7	91.2	95.6	96.8	112.9	134.4	145.2	164.7	203.5	232.5	236.8
130°	89.6	94.4	99.2	100.4	115.1	134.7	144.5	161.8	196.3	222.2	226.0
132.5°	92.7	97.4	102.2	103.4	116.8	134.8	143.8	159.3	190.2	213.4	216.9
135°	97.1	101.4	105.8	106.8	118.8	134.7	142.7	155.6	181.5	200.9	203.9
137.5°	101.5	105.9	110.2	111.2	121.6	135.5	142.5	153.4	175.3	191.7	194.2
140°	105.3	109.2	113.2	114.2	123.3	135.7	141.8	151.3	170.2	184.4	186.6
142.5°	108.1	111.8	115.4	116.4	124.9	136.2	141.8	150.1	166.8	179.2	181.2
145°	112.5	115.7	119.0	119.7	126.8	136.2	140.8	147.6	161.2	171.4	173.0
147.5°	116.9	120.0	123.2	123.9	129.6	137.1	140.8	146.2	156.9	164.9	166.2
150°	119.8	122.6	125.5	126.1	131.0	137.6	140.8	145.3	154.4	161.2	162.2
152.5°	122.8	124.9	127.0	127.6	132.0	137.9	140.8	144.7	152.4	158.2	159.0
155°	127.2	128.7	130.3	130.7	134.1	138.6	140.8	143.9	150.1	154.7	155.2
157.5°	130.4	132.0	133.5	133.9	136.2	139.3	140.8	143.2	148.0	151.6	151.9
160°	132.6	133.8	135.0	135.3	137.1	139.6	140.8	142.9	147.0	150.0	150.2
162.5°	134.8	135.7	136.6	136.8	138.2	140.0	140.8	142.6	146.0	148.6	148.8
165°	137.2	138.0	138.8	139.0	139.6	140.5	140.8	142.1	144.6	146.4	146.6
167.5°	139.4	139.8	140.2	140.3	140.8	141.4	141.8	142.6	144.2	145.4	145.5
170°	140.8	141.2	141.6	141.7	141.7	141.8	141.8	142.6	144.2	145.4	145.4
172.5°	141.6	141.7	141.8	141.8	141.8	141.8	141.8	142.5	143.7	144.7	144.6
175°	142.7	142.7	142.7	142.7	142.4	142.0	141.8	142.2	143.0	143.6	143.6
177.5°	142.7	142.7	142.7	142.7	142.5	142.2	142.0	142.3	143.0	143.4	143.3
180°	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7	142.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	297.4	297.4
2.5°	317.5	315.5
5°	408.3	410.2
7.5°	549.8	548.9
10°	683.7	692.3
12.5°	781.2	783.1
15°	840.5	844.3
17.5°	863.4	864.4
20°	864.4	862.5
22.5°	853.9	852.0
25°	841.4	840.5
27.5°	830.0	830.9
30°	825.2	828.1
32.5°	825.2	830.0
35°	827.1	831.9
37.5°	826.2	831.9
40°	822.3	829.0
42.5°	811.8	816.6
45°	795.6	801.3
47.5°	774.5	778.3
50°	747.7	751.6
52.5°	714.3	715.2
55°	674.1	677.9
57.5°	631.1	632.0
60°	583.3	586.1
62.5°	532.6	532.6
65°	479.1	481.0
67.5°	423.6	428.4
70°	367.2	368.1
72.5°	311.7	311.7
75°	254.3	255.3
77.5°	199.8	199.8
80°	148.2	149.2
82.5°	102.3	104.2
85°	64.1	64.1
87.5°	29.6	26.8
90°	3.6	3.6
92.5°	14.5	11.7
95°	50.9	42.1
97.5°	121.7	105.1
100°	175.5	155.6
102.5°	228.1	211.1
105°	295.6	286.4
107.5°	339.6	341.8
110°	356.4	365.9





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	357.9	372.5
115°	348.4	368.7
117.5°	328.3	350.8
120°	312.1	333.9
122.5°	296.2	317.8
125°	273.8	293.6
127.5°	253.5	270.2
130°	241.5	257.0
132.5°	230.7	244.6
135°	215.9	227.9
137.5°	204.0	213.8
140°	195.7	204.9
142.5°	189.0	196.9
145°	178.9	184.8
147.5°	171.1	176.0
150°	166.2	170.2
152.5°	162.0	165.0
155°	157.2	159.2
157.5°	153.4	154.8
160°	151.1	151.8
162.5°	149.5	150.3
165°	147.4	148.2
167.5°	145.8	146.2
170°	145.4	145.4
172.5°	144.3	144.0
175°	143.6	143.6
177.5°	143.0	142.7
180°	142.7	142.7



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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	6.26	7.41	7.00	8.18	9.11	19.40	20.55	20.14	21.32	22.25
	3H	6.99	8.03	7.74	8.81	9.77	21.24	22.28	22.00	23.06	24.02
	4H	7.30	8.28	8.07	9.07	10.04	21.89	22.87	22.66	23.66	24.63
	6H	7.57	8.48	8.35	9.27	10.26	22.32	23.23	23.11	24.03	25.01
	8H	7.64	8.51	8.44	9.33	10.31	22.45	23.32	23.24	24.13	25.12
	12H	7.67	8.50	8.47	9.31	10.32	22.52	23.35	23.32	24.16	25.17
4H	2H	13.48	14.47	14.26	15.26	16.22	19.71	20.69	20.48	21.48	22.45
	3H	15.08	15.91	15.87	16.73	17.71	21.76	22.59	22.55	23.41	24.40
	4H	15.19	15.94	15.99	16.76	17.78	22.53	23.29	23.34	24.11	25.12
	6H	15.22	15.87	16.04	16.72	17.74	23.08	23.73	23.90	24.58	25.60
	8H	15.20	15.81	16.03	16.66	17.69	23.24	23.85	24.06	24.69	25.73
	12H	15.17	15.73	16.02	16.59	17.63	23.34	23.89	24.19	24.76	25.79
8H	4H	16.65	17.26	17.47	18.10	19.13	22.62	23.23	23.44	24.07	25.11
	6H	16.90	17.41	17.76	18.30	19.33	23.25	23.76	24.10	24.64	25.68
	8H	16.93	17.38	17.79	18.26	19.31	23.47	23.92	24.33	24.80	25.85
	12H	16.91	17.31	17.78	18.18	19.28	23.62	24.02	24.49	24.89	25.99
12H	4H	16.80	17.36	17.65	18.22	19.26	22.59	23.14	23.43	24.00	25.04
	6H	17.16	17.62	18.03	18.49	19.54	23.24	23.69	24.10	24.57	25.62
	8H	17.25	17.65	18.11	18.52	19.62	23.47	23.87	24.34	24.75	25.85