

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: P937136

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937136
REPORT IS A COMBINATION OF REPORTS P933502 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-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

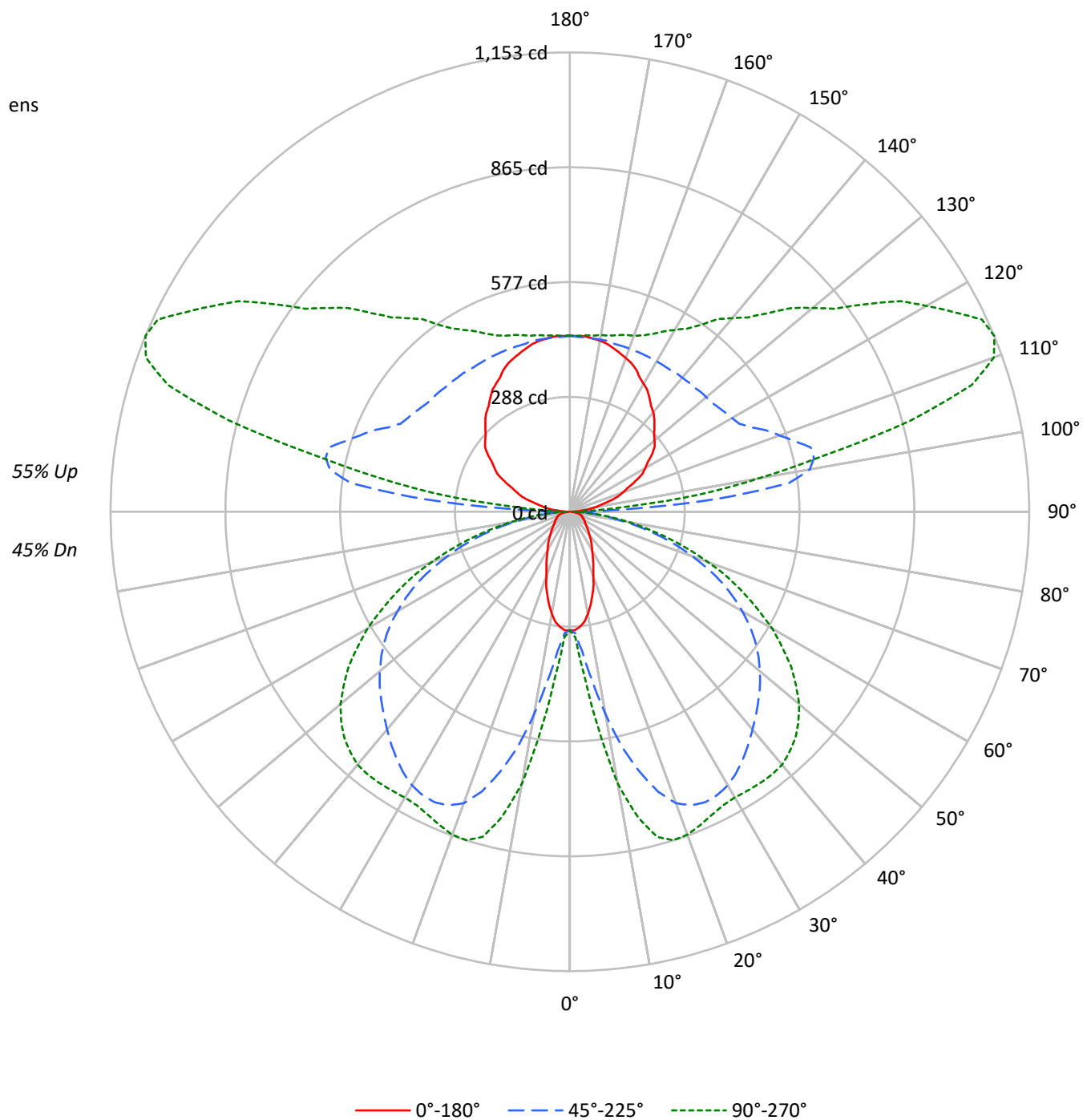
Lumens per Lamp: N/A
Luminaire Lumens: 5165.3 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 42.4
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: P937136

CATALOG NUMBER: SQ4-FB-075U-075D-92765-1D-UNV-STD-W-4-6500K

Luminous Intensity Polar Plot



TEST NUMBER: P937136

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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51
1	96	92	88	84	88	84	80	77	70	67	65	57	55	53	44	43	42
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	38	36	35
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29
4	72	61	53	47	65	56	49	43	46	41	37	38	34	31	30	27	24
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	26	23	21
6	60	48	40	34	55	44	37	31	37	31	27	30	26	22	24	21	18
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	21	18	16
8	51	39	31	26	47	36	29	24	30	24	21	25	20	17	20	16	14
9	48	35	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12
10	44	32	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11

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

TEST NUMBER: P937136

CATALOG NUMBER: SQ4-FB-075U-075D-92765-1D-UNV-STD-W-4-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	0.7
10°-20°	170.5	3.3
20°-30°	298.2	5.8
30°-40°	383.9	7.4
40°-50°	428.8	8.3
50°-60°	410.7	8.0
60°-70°	325.5	6.3
70°-80°	191.4	3.7
80°-90°	54.9	1.1
90°-100°	215.3	4.2
100°-110°	566.0	11.0
110°-120°	586.9	11.4
120°-130°	470.8	9.1
130°-140°	369.4	7.2
140°-150°	283.5	5.5
150°-160°	204.2	4.0
160°-170°	124.9	2.4
170°-180°	42.2	0.8
0°-30°	507.2	9.8
0°-40°	891.0	17.3
0°-60°	1730.5	33.5
0°-90°	2302.2	44.6
90°-120°	1368.2	26.5
90°-150°	2491.8	48.2
90°-180°	2863.0	55.4
0°-180°	5165.3	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°	3	8	23	11	11	3
95°	28	112	371	191	130	32
105°	102	154	626	950	886	108
115°	181	220	501	1000	1141	179
125°	252	282	456	770	909	224
135°	300	330	442	622	705	232
145°	348	370	436	531	572	218
155°	394	405	436	479	493	181
165°	425	430	436	453	459	120
175°	442	442	439	445	445	42
180°	442	442	442	442	442	

TEST NUMBER: P937136

CATALOG NUMBER: SQ4-FB-075U-075D-92765-1D-UNV-STD-W-4-6500K

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°	3.0	5.4	7.7	8.3	13.1	19.4	22.6	20.1	15.0	11.3	11.3
92.5°	11.9	32.0	52.1	57.2	80.4	111.4	126.9	111.2	79.8	56.3	54.1
95°	28.5	65.4	102.3	111.5	197.9	313.2	370.8	330.8	251.0	191.1	184.4
97.5°	49.2	81.8	114.3	122.4	266.6	458.8	554.9	529.6	479.2	441.4	428.5
100°	65.2	94.7	124.2	131.6	291.5	504.9	611.5	613.3	617.0	619.8	604.4
102.5°	78.9	106.4	133.9	140.8	303.0	519.4	627.5	659.7	723.9	772.1	758.9
105°	101.9	125.3	148.6	154.4	311.5	521.0	625.7	697.8	841.9	950.0	942.9
107.5°	125.6	147.4	169.2	174.6	313.2	497.8	590.2	690.7	891.6	1042.4	1044.2
110°	141.7	161.3	181.0	185.9	310.8	477.2	560.5	672.9	897.6	1066.2	1073.5



TEST NUMBER: P937136

CATALOG NUMBER: SQ4-FB-075U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.4	176.1	194.8	199.5	310.9	459.4	533.6	648.6	878.6	1051.0	1062.4
115°	181.1	198.3	215.6	219.9	313.7	438.7	501.2	612.1	833.6	999.8	1015.5
117.5°	204.5	220.2	235.9	239.8	319.6	425.8	479.0	579.0	778.9	928.9	946.3
120°	218.2	232.9	247.7	251.4	324.2	421.5	470.1	561.5	744.2	881.2	898.2
122.5°	231.5	246.4	261.2	265.0	331.0	419.2	463.3	545.5	710.1	833.5	850.2
125°	252.0	265.5	279.1	282.5	340.3	417.4	455.9	525.8	665.6	770.4	785.8
127.5°	268.6	282.3	295.9	299.4	349.5	416.3	449.7	509.7	629.7	719.7	732.7
130°	277.5	292.2	306.9	310.7	356.2	416.9	447.3	500.8	607.6	687.7	699.6
132.5°	286.7	301.4	316.1	319.8	361.6	417.4	445.2	493.0	588.7	660.4	671.2
135°	300.2	313.6	327.1	330.5	367.6	417.0	441.7	481.7	561.9	621.9	631.2
137.5°	314.2	327.5	340.8	344.1	376.5	419.6	441.1	474.9	542.6	593.4	601.0
140°	325.8	338.0	350.3	353.3	381.9	420.0	439.0	468.2	526.7	570.6	577.6
142.5°	334.7	346.0	357.2	360.1	386.4	421.5	439.0	464.7	516.1	554.6	560.7
145°	348.2	358.2	368.0	370.5	392.3	421.5	436.0	457.1	499.0	530.6	535.2
147.5°	361.9	371.5	381.1	383.5	401.0	424.4	436.0	452.6	485.7	510.4	514.2
150°	370.8	379.5	388.2	390.4	405.6	425.9	436.0	450.0	477.9	498.8	501.9
152.5°	380.0	386.6	393.2	394.8	408.6	426.8	436.0	448.0	471.8	489.7	492.0
155°	393.7	398.5	403.3	404.6	415.1	429.0	436.0	445.5	464.4	478.7	480.2
157.5°	403.7	408.5	413.3	414.4	421.6	431.2	436.0	443.4	458.1	469.2	470.3
160°	410.5	414.2	417.9	418.8	424.5	432.2	436.0	442.3	455.1	464.5	465.1
162.5°	417.4	420.2	422.9	423.6	427.7	433.3	436.0	441.4	452.0	460.0	460.6
165°	424.7	427.2	429.7	430.4	432.3	434.8	436.0	439.8	447.5	453.2	453.9
167.5°	431.5	432.7	433.9	434.2	435.8	437.9	439.0	441.5	446.5	450.3	450.6
170°	436.0	437.2	438.4	438.7	438.8	438.9	439.0	441.5	446.5	450.3	450.3
172.5°	438.4	438.7	438.9	439.0	439.0	439.0	439.0	441.0	444.9	447.9	447.7
175°	441.7	441.7	441.7	441.7	440.8	439.6	439.0	440.2	442.7	444.6	444.6
177.5°	441.7	441.7	441.7	441.7	441.0	440.0	439.6	440.5	442.5	444.1	443.8
180°	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7	441.7

TEST NUMBER: P937136

CATALOG NUMBER: SQ4-FB-075U-075D-92765-1D-UNV-STD-W-4-6500K

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°	11.3	11.3
92.5°	45.1	36.1
95°	157.3	130.1
97.5°	376.8	325.2
100°	542.9	481.3
102.5°	706.2	653.6
105°	914.6	886.3
107.5°	1051.0	1057.9
110°	1103.1	1132.6

TEST NUMBER: P937136

CATALOG NUMBER: SQ4-FB-075U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1107.7	1153.1
115°	1078.4	1141.2
117.5°	1016.1	1085.8
120°	965.9	1033.5
122.5°	917.0	983.8
125°	847.3	908.8
127.5°	784.6	836.5
130°	747.6	795.6
132.5°	714.1	757.0
135°	668.2	705.2
137.5°	631.3	661.6
140°	606.0	634.3
142.5°	585.0	609.4
145°	553.6	572.1
147.5°	529.5	544.8
150°	514.3	526.8
152.5°	501.3	510.7
155°	486.4	492.6
157.5°	474.7	479.0
160°	467.6	470.1
162.5°	463.0	465.4
165°	456.4	458.9
167.5°	451.6	452.7
170°	450.3	450.3
172.5°	446.7	445.8
175°	444.6	444.6
177.5°	442.7	441.7
180°	441.7	441.7

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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	4.00	4.85	5.00	5.86	7.21	17.14	17.99	18.13	19.00	20.34
	3H	4.71	5.47	5.71	6.49	7.85	18.96	19.72	19.97	20.74	22.11
	4H	5.01	5.73	6.02	6.75	8.12	19.60	20.32	20.61	21.34	22.71
	6H	5.26	5.92	6.29	6.95	8.33	20.01	20.68	21.04	21.71	23.09
	8H	5.32	5.96	6.36	7.00	8.38	20.13	20.76	21.16	21.81	23.19
	12H	5.34	5.95	6.38	6.98	8.39	20.19	20.79	21.23	21.83	23.24
4H	2H	11.19	11.91	12.21	12.94	14.31	17.41	18.14	18.44	19.16	20.53
	3H	12.76	13.36	13.79	14.41	15.80	19.44	20.05	20.48	21.10	22.48
	4H	12.85	13.41	13.89	14.45	15.86	20.20	20.75	21.24	21.80	23.20
	6H	12.86	13.34	13.91	14.41	15.81	20.72	21.20	21.78	22.27	23.67
	8H	12.84	13.29	13.89	14.35	15.77	20.88	21.33	21.93	22.39	23.80
	12H	12.80	13.20	13.87	14.27	15.70	20.96	21.37	22.04	22.44	23.87
8H	4H	14.29	14.73	15.34	15.79	17.21	20.26	20.71	21.31	21.76	23.18
	6H	14.53	14.90	15.60	16.00	17.42	20.87	21.24	21.95	22.35	23.76
	8H	14.55	14.87	15.63	15.96	17.39	21.09	21.41	22.17	22.50	23.93
	12H	14.51	14.80	15.60	15.88	17.36	21.22	21.51	22.31	22.59	24.06
12H	4H	14.43	14.83	15.50	15.90	17.33	20.21	20.62	21.28	21.69	23.11
	6H	14.78	15.11	15.87	16.19	17.63	20.86	21.18	21.94	22.27	23.70
	8H	14.85	15.14	15.94	16.22	17.69	21.08	21.37	22.17	22.45	23.92