

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: P936339

Luminaire Tested: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936339
REPORT IS A COMBINATION OF REPORTS P933446 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-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

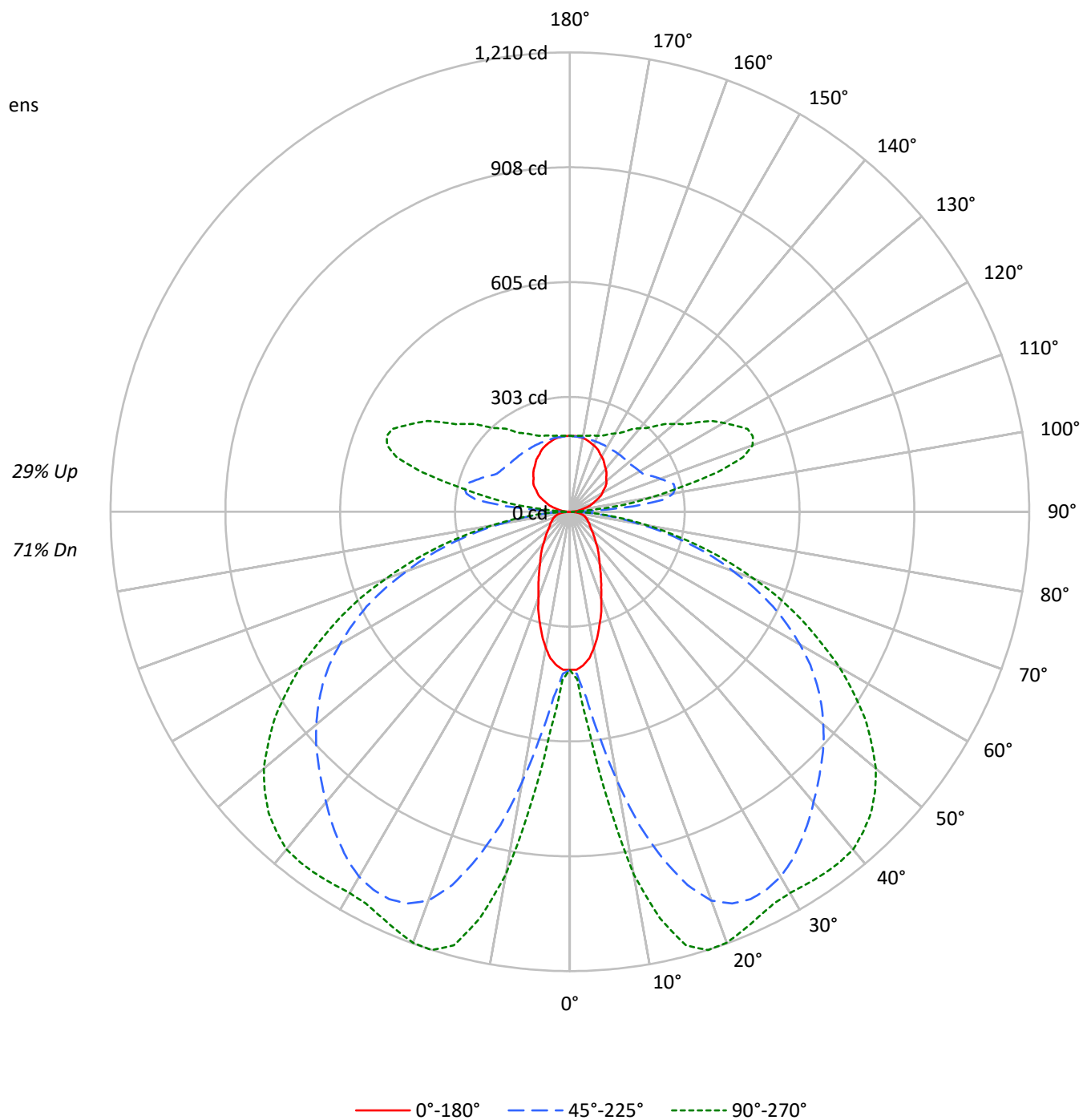
Lumens per Lamp: N/A
Luminaire Lumens: 4517.5 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 45
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: P936339

CATALOG NUMBER: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-6-3500K

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
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°	2576	2576	2576
5°	2516	2976	3462
10°	2281	4338	5740
15°	1938	5666	6932
20°	1577	6565	7065
25°	1315	6868	6921
30°	1109	6910	6908
35°	979	6793	7087
40°	853	6641	7271
45°	772	6531	7300
50°	708	6430	7179
55°	677	6284	6860
60°	693	6005	6358
65°	719	5583	5667
70°	764	4865	4788
75°	844	3963	3736
80°	915	2746	2518
85°	799	1453	1288

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°

Vertical Angle: 45°

Luminance: 7300 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.9	1.2
10°-20°	238.7	5.3
20°-30°	417.6	9.2
30°-40°	537.6	11.9
40°-50°	600.4	13.3
50°-60°	575.1	12.7
60°-70°	455.7	10.1
70°-80°	268.0	5.9
80°-90°	75.2	1.7
90°-100°	97.4	2.2
100°-110°	256.1	5.7
110°-120°	265.5	5.9
120°-130°	213.0	4.7
130°-140°	167.1	3.7
140°-150°	128.3	2.8
150°-160°	92.4	2.0
160°-170°	56.5	1.3
170°-180°	19.1	0.4
0°-30°	710.2	15.7
0°-40°	1247.8	27.6
0°-60°	2423.3	53.6
0°-90°	3222.2	71.3
90°-120°	619.0	13.7
90°-150°	1127.3	25.0
90°-180°	1295.0	28.7
0°-180°	4517.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	416	416	416	416	416	
5°	406	435	490	554	574	37
15°	304	561	945	1146	1182	85
25°	194	636	1126	1176	1177	89
35°	131	608	1060	1121	1165	82
45°	90	485	937	1074	1122	69
55°	64	308	795	924	949	59
65°	51	163	590	664	674	50
75°	38	100	324	356	358	39
85°	13	31	80	88	90	14
90°	1	4	10	5	5	2
95°	13	50	168	86	59	14
105°	46	70	283	430	401	49
115°	82	100	227	452	516	81
125°	114	128	206	349	411	101
135°	136	150	200	281	319	105
145°	158	168	197	240	259	99
155°	178	183	197	216	223	82
165°	192	195	197	205	208	54
175°	200	200	199	201	201	19
180°	200	200	200	200	200	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4	416.4
2.5°	416.4	416.4	419.1	420.4	423.1	424.4	427.1	429.8	437.8	439.2	441.8
5°	405.7	411.1	428.5	435.2	453.9	479.3	490.0	507.5	543.6	554.3	561.0
7.5°	389.6	401.7	444.5	455.2	502.1	569.0	597.2	634.7	692.2	720.3	743.1
10°	364.2	389.6	465.9	491.4	567.7	669.5	721.7	773.9	860.9	899.8	914.5
12.5°	336.1	377.6	488.7	523.5	633.3	781.9	844.9	902.4	1001.5	1053.8	1061.9
15°	303.9	360.2	510.1	561.0	702.9	875.7	945.3	1016.3	1108.7	1146.2	1155.6
17.5°	275.8	346.8	530.2	583.8	756.5	960.0	1031.1	1090.0	1165.0	1190.4	1197.1
20°	241.0	325.4	543.6	613.2	812.7	1021.7	1090.0	1135.5	1186.4	1202.4	1205.1
22.5°	215.6	302.6	551.6	623.9	850.2	1059.2	1116.8	1152.9	1187.7	1193.1	1194.4
25°	194.1	277.2	550.3	636.0	882.4	1081.9	1126.1	1152.9	1173.0	1175.7	1175.7
27.5°	174.1	249.0	544.9	638.7	906.5	1087.3	1122.1	1140.9	1150.2	1155.6	1155.6
30°	156.7	222.3	531.6	633.3	917.2	1081.9	1110.1	1119.4	1128.8	1136.8	1140.9
32.5°	143.3	196.8	511.5	622.6	918.5	1068.6	1088.6	1094.0	1107.4	1126.1	1132.8
35°	131.2	171.4	488.7	607.9	910.5	1047.1	1060.5	1065.9	1092.7	1120.8	1130.1
37.5°	119.2	152.6	459.3	582.4	898.4	1021.7	1031.1	1040.4	1081.9	1115.4	1126.1
40°	107.1	136.6	424.4	554.3	879.7	990.8	998.8	1013.6	1068.6	1107.4	1118.1
42.5°	97.7	123.2	387.0	524.9	855.6	956.0	968.0	989.5	1052.5	1094.0	1106.0
45°	89.7	109.8	346.8	484.7	824.8	919.8	937.3	966.7	1033.7	1073.9	1084.6
47.5°	81.7	100.4	305.3	443.2	791.3	883.7	906.5	939.9	1008.2	1047.1	1056.5
50°	75.0	91.0	263.8	399.0	755.2	844.9	871.6	906.5	976.1	1012.2	1024.4
52.5°	69.6	83.0	224.9	354.8	713.6	804.7	835.5	871.6	937.3	972.1	980.1
55°	64.3	76.3	191.5	308.0	670.8	761.9	795.3	830.1	894.4	923.9	929.2
57.5°	61.6	71.0	163.3	263.8	625.3	713.6	751.1	783.3	843.5	866.3	871.6
60°	57.6	66.9	141.9	226.3	575.7	668.1	700.3	732.4	783.3	802.0	806.0
62.5°	53.6	64.3	125.9	190.1	524.9	614.6	646.7	676.2	719.0	732.4	737.8
65°	50.9	61.6	113.8	163.3	472.6	558.3	590.5	615.9	650.7	664.1	666.8
67.5°	48.2	58.9	104.4	140.6	420.4	502.1	526.2	550.3	577.1	590.5	591.8
70°	44.2	56.2	96.4	124.5	366.9	437.8	457.9	483.4	504.8	511.5	515.5
72.5°	41.5	52.2	91.0	112.5	312.0	376.2	395.0	409.7	428.5	435.2	435.2
75°	37.5	46.9	85.7	100.4	255.7	308.0	324.0	338.7	353.5	356.2	352.1
77.5°	33.5	41.5	73.6	84.4	199.5	243.7	257.1	265.1	277.2	279.8	281.2
80°	28.1	36.2	57.6	65.6	144.6	179.4	188.8	195.5	206.2	206.2	208.9
82.5°	21.4	28.1	41.5	46.9	97.7	123.2	131.2	135.2	141.9	141.9	141.9
85°	13.4	17.4	26.8	30.8	58.9	75.0	80.3	81.7	87.0	88.4	88.4
87.5°	6.7	9.4	17.4	18.7	30.8	38.8	38.8	41.5	41.5	40.2	38.8
90°	1.3	2.4	3.5	3.7	5.9	8.7	10.2	9.0	6.8	5.1	5.1
92.5°	5.4	14.5	23.6	25.9	36.4	50.4	57.4	50.3	36.1	25.4	24.5
95°	12.9	29.5	46.2	50.4	89.5	141.7	167.7	149.7	113.5	86.5	83.5
97.5°	22.2	37.0	51.7	55.3	120.6	207.5	251.0	239.6	216.8	199.7	193.9
100°	29.5	42.8	56.2	59.5	131.9	228.4	276.6	277.4	279.1	280.4	273.4
102.5°	35.7	48.2	60.6	63.7	137.1	234.9	283.9	298.4	327.5	349.4	343.4
105°	46.1	56.7	67.2	69.9	140.9	235.7	283.0	315.6	380.9	429.8	426.6
107.5°	56.9	66.7	76.5	79.0	141.7	225.2	267.0	312.5	403.5	471.7	472.5
110°	64.1	73.0	81.9	84.1	140.6	215.9	253.6	304.5	406.1	482.4	485.7

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	71.2	79.7	88.1	90.2	140.6	207.8	241.4	293.4	397.5	475.5	480.6
115°	81.9	89.8	97.6	99.5	141.9	198.4	226.7	276.9	377.1	452.3	459.4
117.5°	92.6	99.6	106.7	108.5	144.5	192.6	216.7	262.0	352.4	420.2	428.1
120°	98.7	105.4	112.0	113.7	146.7	190.8	212.7	254.0	336.7	398.7	406.4
122.5°	104.7	111.5	118.2	119.9	149.8	189.7	209.6	246.8	321.3	377.1	384.7
125°	114.0	120.1	126.3	127.8	154.0	188.9	206.3	237.9	301.2	348.6	355.5
127.5°	121.5	127.6	133.9	135.4	158.1	188.3	203.4	230.6	284.9	325.6	331.5
130°	125.5	132.2	138.8	140.5	161.1	188.6	202.4	226.5	274.8	311.1	316.5
132.5°	129.7	136.4	143.0	144.7	163.6	188.9	201.5	223.1	266.4	298.8	303.6
135°	135.9	141.9	148.0	149.5	166.3	188.7	199.9	218.0	254.2	281.4	285.5
137.5°	142.2	148.2	154.2	155.7	170.3	189.9	199.6	214.9	245.6	268.5	271.9
140°	147.4	152.9	158.4	159.9	172.8	190.0	198.6	211.8	238.3	258.1	261.4
142.5°	151.4	156.5	161.7	162.9	174.8	190.7	198.6	210.2	233.5	250.9	253.7
145°	157.5	162.0	166.5	167.6	177.5	190.7	197.3	206.7	225.7	240.0	242.1
147.5°	163.7	168.1	172.5	173.5	181.5	192.0	197.3	204.8	219.7	230.9	232.6
150°	167.7	171.7	175.7	176.6	183.5	192.7	197.3	203.6	216.2	225.7	227.1
152.5°	171.9	174.9	177.9	178.6	184.9	193.2	197.3	202.6	213.4	221.5	222.6
155°	178.1	180.3	182.5	183.1	187.8	194.1	197.3	201.6	210.1	216.5	217.3
157.5°	182.6	184.8	186.9	187.5	190.8	195.1	197.3	200.6	207.3	212.3	212.8
160°	185.8	187.5	189.1	189.5	192.1	195.6	197.3	200.1	205.8	210.1	210.4
162.5°	188.8	190.0	191.3	191.6	193.5	196.0	197.3	199.7	204.5	208.2	208.4
165°	192.2	193.3	194.4	194.7	195.6	196.7	197.3	199.0	202.4	205.0	205.3
167.5°	195.2	195.8	196.3	196.5	197.2	198.2	198.6	199.8	202.0	203.7	203.8
170°	197.3	197.8	198.3	198.4	198.5	198.6	198.6	199.8	202.0	203.7	203.7
172.5°	198.3	198.4	198.6	198.6	198.6	198.6	198.6	199.5	201.3	202.6	202.5
175°	199.9	199.9	199.9	199.9	199.4	198.9	198.6	199.1	200.3	201.2	201.2
177.5°	199.9	199.9	199.9	199.9	199.5	199.1	198.9	199.3	200.2	200.9	200.8
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	416.4	416.4
2.5°	444.5	441.8
5°	571.7	574.4
7.5°	769.9	768.5
10°	957.3	969.4
12.5°	1094.0	1096.7
15°	1177.0	1182.4
17.5°	1209.1	1210.5
20°	1210.5	1207.8
22.5°	1195.8	1193.1
25°	1178.3	1177.0
27.5°	1162.3	1163.6
30°	1155.6	1159.6
32.5°	1155.6	1162.3
35°	1158.3	1165.0
37.5°	1156.9	1165.0
40°	1151.6	1160.9
42.5°	1136.8	1143.5
45°	1114.1	1122.1
47.5°	1084.6	1090.0
50°	1047.1	1052.5
52.5°	1000.2	1001.5
55°	943.9	949.3
57.5°	883.7	885.0
60°	816.7	820.8
62.5°	745.8	745.8
65°	670.8	673.5
67.5°	593.1	599.8
70°	514.1	515.5
72.5°	436.5	436.5
75°	356.2	357.5
77.5°	279.8	279.8
80°	207.5	208.9
82.5°	143.3	145.9
85°	89.7	89.7
87.5°	41.5	37.5
90°	5.1	5.1
92.5°	20.4	16.3
95°	71.1	58.9
97.5°	170.5	147.1
100°	245.6	217.8
102.5°	319.6	295.7
105°	413.8	401.0
107.5°	475.5	478.6
110°	499.1	512.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	501.1	521.6
115°	487.8	516.3
117.5°	459.7	491.2
120°	437.0	467.6
122.5°	414.9	445.1
125°	383.3	411.1
127.5°	355.0	378.5
130°	338.2	359.9
132.5°	323.0	342.5
135°	302.2	319.0
137.5°	285.6	299.3
140°	274.1	287.0
142.5°	264.7	275.7
145°	250.5	258.9
147.5°	239.6	246.5
150°	232.7	238.3
152.5°	226.8	231.1
155°	220.0	222.9
157.5°	214.8	216.7
160°	211.6	212.7
162.5°	209.5	210.6
165°	206.5	207.6
167.5°	204.3	204.8
170°	203.7	203.7
172.5°	202.1	201.7
175°	201.2	201.2
177.5°	200.3	199.9
180°	199.9	199.9

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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	6.03	7.18	6.77	7.95	8.88	19.19	20.35	19.93	21.12	22.04
	3H	6.75	7.79	7.51	8.57	9.53	21.05	22.09	21.80	22.87	23.83
	4H	7.07	8.05	7.84	8.84	9.81	21.70	22.69	22.48	23.48	24.44
	6H	7.33	8.24	8.12	9.04	10.02	22.15	23.06	22.93	23.85	24.84
	8H	7.41	8.28	8.20	9.09	10.08	22.27	23.14	23.07	23.96	24.94
	12H	7.44	8.27	8.24	9.08	10.09	22.35	23.18	23.15	23.99	25.00
4H	2H	13.27	14.25	14.05	15.04	16.01	19.50	20.49	20.28	21.28	22.24
	3H	14.86	15.69	15.65	16.51	17.50	21.57	22.40	22.36	23.22	24.20
	4H	14.97	15.73	15.78	16.55	17.56	22.35	23.10	23.15	23.92	24.93
	6H	15.00	15.66	15.82	16.50	17.52	22.90	23.55	23.72	24.40	25.42
	8H	14.99	15.60	15.81	16.44	17.47	23.07	23.68	23.89	24.52	25.55
	12H	14.96	15.51	15.80	16.37	17.41	23.17	23.72	24.02	24.59	25.62
8H	4H	16.44	17.05	17.26	17.89	18.93	22.43	23.04	23.26	23.89	24.92
	6H	16.69	17.20	17.55	18.09	19.12	23.07	23.58	23.92	24.46	25.50
	8H	16.72	17.17	17.58	18.05	19.10	23.29	23.75	24.16	24.62	25.67
	12H	16.70	17.10	17.57	17.97	19.07	23.45	23.85	24.32	24.72	25.82
12H	4H	16.60	17.15	17.44	18.01	19.05	22.40	22.95	23.25	23.81	24.85
	6H	16.96	17.41	17.82	18.29	19.34	23.06	23.51	23.92	24.39	25.44
	8H	17.04	17.44	17.91	18.31	19.41	23.30	23.70	24.17	24.57	25.67