

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: P937042

Luminaire Tested: SQ4-FB-075U-050D-92765-1D-UNV-STD-W-6-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937042
REPORT IS A COMBINATION OF REPORTS P933509 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-050D-92765-1D-UNV-STD-W-6-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

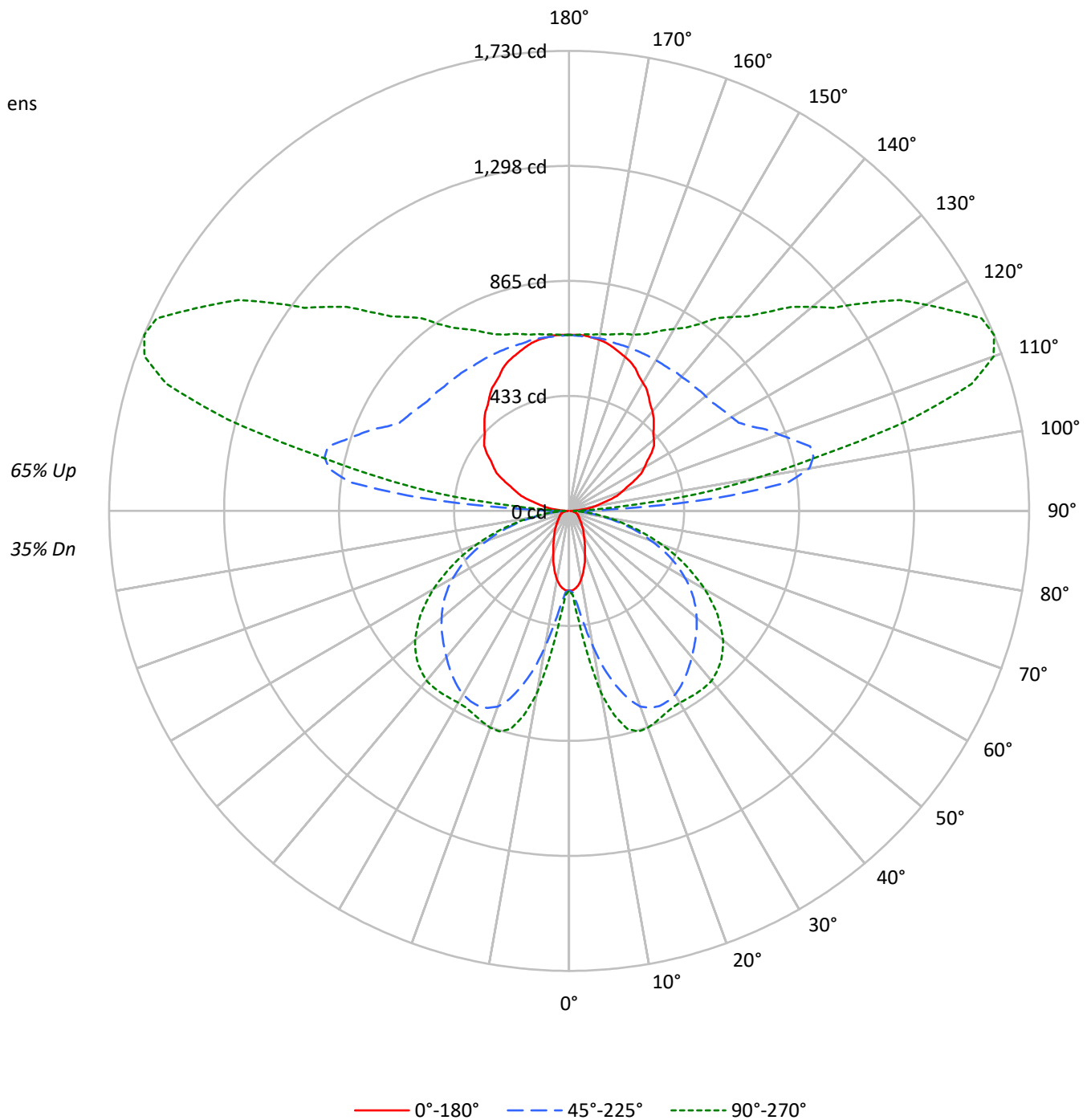
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6611.1 lumens
Efficiency: N/A
Efficacy: 128.1 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-Indirect

Input Watts (W): 51.6
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	104	104	104	104	94	94	94	94	75	75	75	58	58	58	42	42	42	35			35
1	94	90	86	82	85	81	78	75	65	63	61	50	49	47	37	36	35	29			29
2	85	78	72	66	77	70	65	61	57	53	50	44	41	39	32	30	29	23			23
3	77	68	61	55	70	62	55	50	49	45	41	38	35	32	28	26	24	19			19
4	71	60	52	46	63	54	47	42	44	39	35	34	30	27	25	22	20	16			16
5	65	53	45	39	58	48	41	36	39	33	29	30	26	23	22	19	17	14			14
6	59	47	39	33	53	43	36	31	35	29	25	27	23	20	20	17	15	12			12
7	55	42	34	29	49	38	31	26	31	26	22	24	20	17	18	15	13	10			10
8	50	38	30	25	45	35	28	23	28	23	19	22	18	15	16	14	12	9			9
9	47	35	27	22	42	32	25	20	26	21	17	20	16	14	15	12	10	8			8
10	44	32	24	20	39	29	22	18	23	18	15	18	15	12	14	11	9	7			7

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1850	1850	1850
5°	1807	2138	2487
10°	1638	3116	4123
15°	1392	4070	4979
20°	1133	4715	5075
25°	945	4933	4972
30°	796	4963	4962
35°	704	4879	5090
40°	613	4771	5223
45°	554	4691	5243
50°	508	4619	5157
55°	487	4514	4928
60°	498	4314	4567
65°	516	4011	4070
70°	548	3495	3439
75°	608	2846	2684
80°	657	1972	1808
85°	578	1046	925

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 5243 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.7	0.6
10°-20°	171.5	2.6
20°-30°	300.0	4.5
30°-40°	386.1	5.8
40°-50°	431.3	6.5
50°-60°	413.1	6.2
60°-70°	327.4	5.0
70°-80°	192.5	2.9
80°-90°	56.0	0.8
90°-100°	322.9	4.9
100°-110°	849.0	12.8
110°-120°	880.3	13.3
120°-130°	706.1	10.7
130°-140°	554.0	8.4
140°-150°	425.3	6.4
150°-160°	306.3	4.6
160°-170°	187.4	2.8
170°-180°	63.3	1.0
0°-30°	510.1	7.7
0°-40°	896.3	13.6
0°-60°	1740.6	26.3
0°-90°	2316.5	35.0
90°-120°	2052.2	31.0
90°-150°	3737.6	56.5
90°-180°	4295.0	65.0
0°-180°	6611.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	299	299	299	299	299	
5°	291	313	352	398	413	27
15°	218	403	679	823	849	61
25°	140	457	809	844	846	64
35°	94	437	762	805	837	59
45°	64	348	673	771	806	50
55°	46	221	571	664	682	42
65°	36	117	424	477	484	36
75°	27	72	233	256	257	28
85°	10	22	58	64	64	10
90°	4	12	34	17	17	4
95°	43	167	556	287	195	47
105°	153	232	939	1425	1329	162
115°	272	330	752	1500	1712	268
125°	378	424	684	1156	1363	336
135°	450	496	662	933	1058	348
145°	522	556	654	796	858	327
155°	590	607	654	718	739	271
165°	637	646	654	680	688	180
175°	662	662	658	667	667	63
180°	662	662	662	662	662	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	299.1	299.1	299.1	299.1	299.1	299.1	299.1	299.1	299.1	299.1	299.1
2.5°	299.1	299.1	301.0	302.0	304.0	304.9	306.8	308.8	314.5	315.4	317.4
5°	291.4	295.3	307.8	312.6	326.1	344.3	352.0	364.5	390.5	398.2	403.0
7.5°	279.9	288.6	319.3	327.0	360.7	408.8	428.9	455.9	497.2	517.5	533.8
10°	261.6	279.9	334.7	353.0	407.8	480.9	518.4	555.9	618.5	646.3	656.9
12.5°	241.4	271.3	351.0	376.1	455.0	561.7	606.9	648.3	719.4	756.9	762.7
15°	218.3	258.7	366.4	403.0	505.0	629.0	679.0	730.1	796.4	823.3	830.1
17.5°	198.1	249.1	380.9	419.4	543.4	689.6	740.6	782.9	836.8	855.0	859.8
20°	173.2	233.7	390.5	440.5	583.9	733.9	782.9	815.6	852.2	863.7	865.6
22.5°	154.8	217.3	396.2	448.2	610.7	760.7	802.2	828.1	853.1	856.9	857.9
25°	139.5	199.1	395.3	456.9	633.9	777.1	808.8	828.1	842.5	844.4	844.4
27.5°	125.1	178.9	391.5	458.8	651.2	781.0	806.0	819.5	826.2	830.1	830.1
30°	112.5	159.7	381.8	455.0	658.8	777.1	797.4	804.1	810.8	816.6	819.5
32.5°	102.9	141.4	367.4	447.2	659.8	767.5	782.0	785.8	795.4	808.8	813.7
35°	94.3	123.2	351.0	436.7	654.0	752.1	761.7	765.6	784.8	805.0	811.7
37.5°	85.6	109.7	329.9	418.4	645.3	733.9	740.6	747.4	777.1	801.2	808.8
40°	77.0	98.1	304.9	398.2	631.9	711.7	717.5	728.0	767.5	795.4	803.1
42.5°	70.2	88.4	278.0	377.0	614.5	686.7	695.3	710.7	756.0	785.8	794.4
45°	64.4	78.9	249.1	348.1	592.5	660.7	673.3	694.4	742.5	771.4	779.0
47.5°	58.7	72.1	219.3	318.3	568.5	634.8	651.2	675.2	724.2	752.1	758.8
50°	53.8	65.4	189.5	286.6	542.4	606.9	626.1	651.2	701.2	727.1	735.8
52.5°	50.0	59.7	161.6	254.9	512.6	578.0	600.2	626.1	673.3	698.3	704.0
55°	46.2	54.8	137.5	221.2	481.8	547.2	571.3	596.3	642.5	663.6	667.5
57.5°	44.3	51.0	117.3	189.5	449.1	512.6	539.6	562.6	605.9	622.3	626.1
60°	41.4	48.1	101.9	162.6	413.6	479.9	503.1	526.1	562.6	576.1	579.0
62.5°	38.4	46.2	90.5	136.5	377.0	441.5	464.5	485.7	516.4	526.1	529.9
65°	36.5	44.3	81.8	117.3	339.5	401.0	424.2	442.4	467.4	477.0	479.0
67.5°	34.6	42.4	75.1	101.0	302.0	360.7	378.0	395.3	414.5	424.2	425.1
70°	31.7	40.4	69.2	89.4	263.5	314.5	328.9	347.2	362.6	367.4	370.3
72.5°	29.8	37.5	65.4	80.8	224.1	270.2	283.7	294.3	307.8	312.6	312.6
75°	27.0	33.7	61.6	72.1	183.7	221.2	232.7	243.4	253.9	255.9	252.9
77.5°	24.0	29.8	52.9	60.6	143.3	175.1	184.6	190.5	199.1	201.0	201.9
80°	20.2	26.0	41.4	47.1	103.8	128.9	135.6	140.5	148.1	148.1	150.0
82.5°	15.4	20.2	29.8	33.7	70.2	88.4	94.3	97.1	101.9	101.9	101.9
85°	9.7	12.5	19.2	22.1	42.4	53.8	57.8	58.7	62.5	63.5	63.5
87.5°	4.8	6.7	12.5	13.5	22.1	27.9	27.9	29.8	29.8	28.9	27.9
90°	4.4	7.9	11.6	12.4	19.5	29.0	33.8	30.0	22.6	16.9	16.9
92.5°	17.8	48.0	78.2	85.8	120.6	167.0	190.3	166.8	119.7	84.4	81.1
95°	42.6	98.0	153.3	167.1	296.8	469.8	556.2	496.4	376.5	286.8	276.6
97.5°	73.8	122.6	171.3	183.6	399.9	688.2	832.4	794.5	718.9	662.1	642.7
100°	97.8	142.1	186.4	197.5	437.4	757.3	917.3	920.0	925.6	929.7	906.7
102.5°	118.3	159.6	200.9	211.2	454.6	779.0	941.3	989.5	1085.9	1158.2	1138.4
105°	153.0	188.0	223.0	231.7	467.3	781.5	938.6	1046.6	1262.8	1425.0	1414.4
107.5°	188.6	221.2	253.8	261.9	469.7	746.7	885.2	1036.0	1337.6	1563.8	1566.3
110°	212.6	242.0	271.4	278.7	466.0	715.9	840.8	1009.4	1346.5	1599.3	1610.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	236.1	264.1	292.2	299.2	466.2	688.9	800.3	972.8	1317.8	1576.6	1593.6
115°	271.7	297.6	323.4	329.9	470.5	658.1	751.9	918.0	1250.4	1499.7	1523.2
117.5°	306.7	330.3	353.8	359.7	479.3	638.7	718.5	868.5	1168.5	1393.5	1419.6
120°	327.2	349.4	371.5	377.0	486.4	632.2	705.2	842.2	1116.3	1321.8	1347.3
122.5°	347.3	369.6	391.9	397.5	496.6	628.9	695.0	818.3	1065.1	1250.2	1275.3
125°	377.9	398.3	418.6	423.7	510.4	626.0	683.9	788.7	998.4	1155.6	1178.6
127.5°	402.8	423.4	443.9	449.0	524.2	624.4	674.5	764.5	944.5	1079.5	1099.0
130°	416.1	438.3	460.4	466.0	534.3	625.4	671.0	751.1	911.3	1031.5	1049.5
132.5°	429.9	452.1	474.2	479.7	542.4	626.0	667.8	739.5	883.0	990.6	1006.7
135°	450.4	470.5	490.7	495.8	551.3	625.4	662.5	722.5	842.7	932.8	946.6
137.5°	471.3	491.2	511.2	516.2	564.6	629.3	661.6	712.4	813.9	890.1	901.5
140°	488.6	507.0	525.4	530.0	572.9	629.9	658.4	702.3	790.1	855.9	866.5
142.5°	502.0	519.0	536.0	540.2	579.6	632.1	658.4	697.0	774.0	831.9	841.1
145°	522.5	537.3	552.0	555.7	588.5	632.2	654.0	685.6	748.6	795.8	802.7
147.5°	542.8	557.3	571.7	575.3	601.5	636.5	654.0	678.8	728.4	765.6	771.4
150°	556.2	569.2	582.3	585.6	608.4	638.8	654.0	675.0	716.9	748.3	753.0
152.5°	570.0	579.9	589.8	592.3	612.8	640.3	654.0	671.9	707.7	734.5	738.1
155°	590.4	597.7	605.1	606.9	622.6	643.5	654.0	668.3	696.8	718.1	720.4
157.5°	605.6	612.7	619.8	621.6	632.4	646.9	654.0	665.1	687.2	703.9	705.5
160°	615.8	621.3	626.9	628.2	636.8	648.3	654.0	663.5	682.4	696.7	697.6
162.5°	626.0	630.2	634.3	635.4	641.6	649.9	654.0	662.1	678.0	690.1	690.9
165°	637.1	640.9	644.7	645.6	648.4	652.1	654.0	659.8	671.2	679.9	680.8
167.5°	647.3	649.2	650.9	651.4	653.7	656.9	658.4	662.2	669.7	675.4	675.7
170°	654.0	655.9	657.6	658.1	658.1	658.3	658.4	662.2	669.7	675.4	675.4
172.5°	657.6	658.0	658.3	658.4	658.4	658.4	658.4	661.4	667.3	671.8	671.4
175°	662.5	662.5	662.5	662.5	661.1	659.3	658.4	660.3	664.1	666.9	666.9
177.5°	662.5	662.5	662.5	662.5	661.4	660.1	659.4	660.9	663.9	666.1	665.7
180°	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5	662.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	299.1	299.1
2.5°	319.3	317.4
5°	410.7	412.6
7.5°	553.1	552.1
10°	687.7	696.3
12.5°	785.8	787.7
15°	845.5	849.3
17.5°	868.5	869.5
20°	869.5	867.6
22.5°	858.9	856.9
25°	846.4	845.5
27.5°	834.9	835.8
30°	830.1	832.9
32.5°	830.1	834.9
35°	832.0	836.8
37.5°	831.0	836.8
40°	827.1	833.9
42.5°	816.6	821.4
45°	800.2	806.0
47.5°	779.0	782.9
50°	752.1	756.0
52.5°	718.5	719.4
55°	678.0	682.0
57.5°	634.8	635.8
60°	586.7	589.6
62.5°	535.8	535.8
65°	481.8	483.7
67.5°	426.1	430.9
70°	369.4	370.3
72.5°	313.5	313.5
75°	255.9	256.8
77.5°	201.0	201.0
80°	149.1	150.0
82.5°	102.9	104.8
85°	64.4	64.4
87.5°	29.8	27.0
90°	16.9	16.9
92.5°	67.6	54.2
95°	235.9	195.2
97.5°	565.2	487.8
100°	814.3	722.0
102.5°	1059.5	980.4
105°	1371.9	1329.4
107.5°	1576.6	1586.8
110°	1654.6	1698.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1661.6	1729.6
115°	1617.5	1711.8
117.5°	1524.1	1628.6
120°	1448.8	1550.4
122.5°	1375.5	1475.7
125°	1271.0	1363.2
127.5°	1176.9	1254.7
130°	1121.4	1193.3
132.5°	1071.1	1135.6
135°	1002.2	1057.7
137.5°	946.9	992.4
140°	909.1	951.5
142.5°	877.6	914.1
145°	830.5	858.1
147.5°	794.2	817.2
150°	771.6	790.1
152.5°	752.0	766.1
155°	729.7	738.9
157.5°	712.0	718.5
160°	701.4	705.2
162.5°	694.5	698.0
165°	684.5	688.3
167.5°	677.4	678.9
170°	675.4	675.4
172.5°	670.1	668.7
175°	666.9	666.9
177.5°	664.1	662.5
180°	662.5	662.5



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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	1.59	2.35	2.66	3.43	4.89	14.75	15.52	15.82	16.59	18.06
	3H	2.29	2.97	3.36	4.06	5.54	16.58	17.27	17.66	18.35	19.84
	4H	2.58	3.23	3.67	4.32	5.81	17.22	17.87	18.31	18.96	20.45
	6H	2.83	3.43	3.92	4.52	6.02	17.64	18.24	18.74	19.33	20.83
	8H	2.89	3.46	3.99	4.57	6.07	17.75	18.33	18.86	19.43	20.93
	12H	2.91	3.45	4.01	4.55	6.07	17.82	18.36	18.92	19.46	20.98
4H	2H	8.78	9.44	9.88	10.52	12.01	15.02	15.67	16.11	16.75	18.24
	3H	10.34	10.89	11.45	12.00	13.50	17.05	17.59	18.15	18.71	20.21
	4H	10.43	10.93	11.54	12.04	13.56	17.81	18.31	18.92	19.41	20.94
	6H	10.44	10.87	11.55	11.99	13.51	18.34	18.77	19.45	19.89	21.41
	8H	10.41	10.82	11.53	11.93	13.47	18.49	18.90	19.61	20.01	21.55
	12H	10.36	10.73	11.50	11.86	13.40	18.58	18.94	19.71	20.07	21.61
8H	4H	11.87	12.27	12.98	13.39	14.92	17.86	18.26	18.98	19.38	20.91
	6H	12.10	12.44	13.24	13.60	15.13	18.48	18.81	19.62	19.97	21.50
	8H	12.12	12.41	13.26	13.55	15.10	18.70	18.99	19.84	20.13	21.68
	12H	12.08	12.34	13.23	13.48	15.06	18.83	19.09	19.98	20.22	21.81
12H	4H	12.00	12.37	13.14	13.50	15.04	17.81	18.17	18.94	19.30	20.84
	6H	12.36	12.65	13.50	13.79	15.34	18.46	18.75	19.61	19.89	21.44
	8H	12.42	12.68	13.57	13.82	15.40	18.68	18.94	19.83	20.08	21.66