

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: P937139

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937139
REPORT IS A COMBINATION OF REPORTS P933510 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-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

Summary

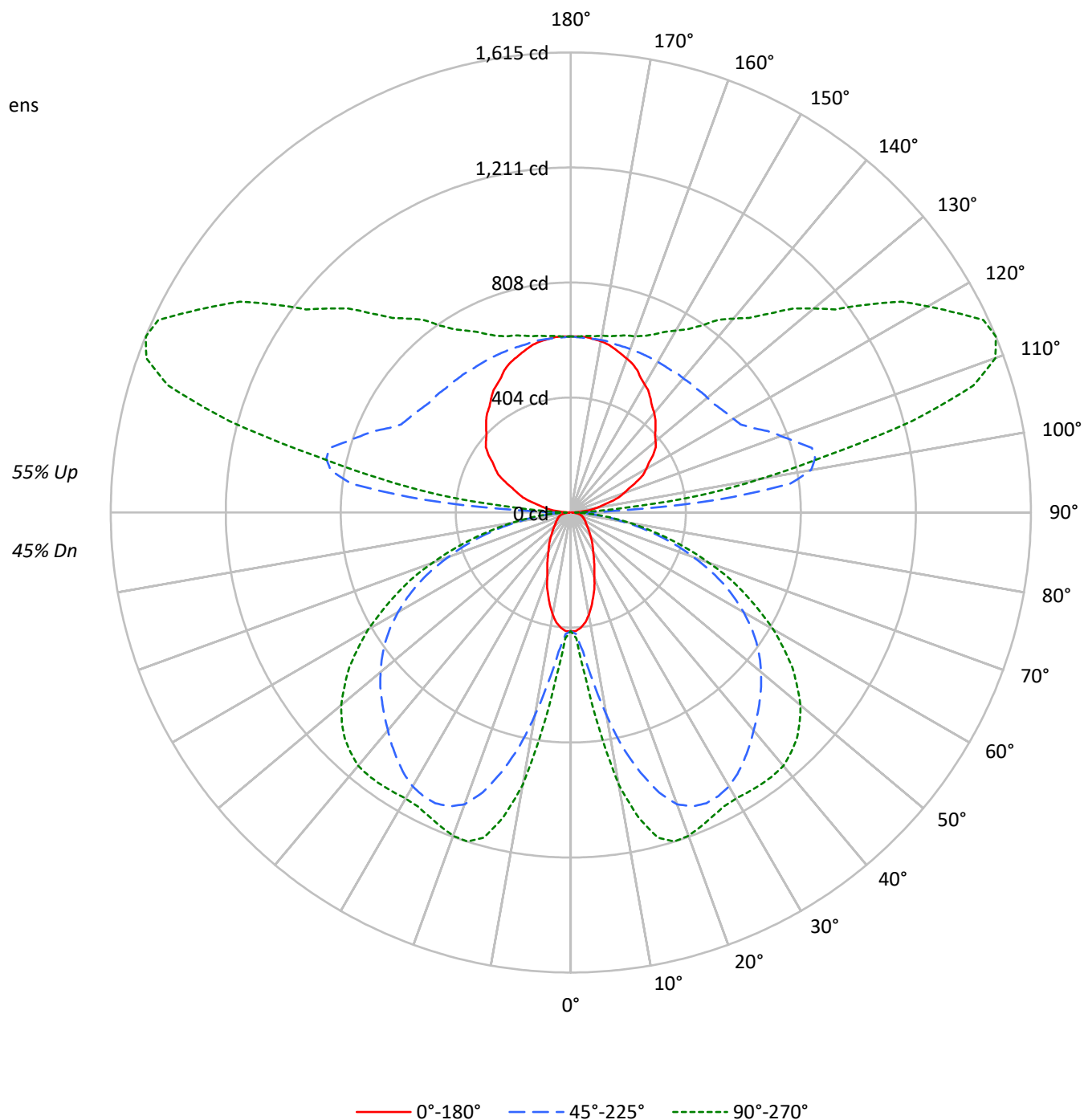
Lumens per Lamp: N/A
Luminaire Lumens: 7232.9 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 63.6
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

TEST NUMBER: P937139

CATALOG NUMBER: SQ4-FB-075U-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
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°	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	0.7
10°-20°	238.7	3.3
20°-30°	417.6	5.8
30°-40°	537.6	7.4
40°-50°	600.4	8.3
50°-60°	575.1	8.0
60°-70°	455.7	6.3
70°-80°	268.0	3.7
80°-90°	76.8	1.1
90°-100°	301.4	4.2
100°-110°	792.6	11.0
110°-120°	821.8	11.4
120°-130°	659.2	9.1
130°-140°	517.2	7.2
140°-150°	397.0	5.5
150°-160°	285.9	4.0
160°-170°	174.9	2.4
170°-180°	59.1	0.8
0°-30°	710.2	9.8
0°-40°	1247.8	17.3
0°-60°	2423.3	33.5
0°-90°	3223.8	44.6
90°-120°	1915.8	26.5
90°-150°	3489.2	48.2
90°-180°	4009.0	55.4
0°-180°	7232.9	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°	4	12	32	16	16	4
95°	40	156	519	268	182	44
105°	143	216	876	1330	1241	151
115°	254	308	702	1400	1598	250
125°	353	396	638	1079	1273	313
135°	420	463	618	871	987	325
145°	488	519	611	743	801	306
155°	551	566	611	670	690	253
165°	595	603	611	635	642	168
175°	618	618	615	623	623	59
180°	618	618	618	618	618	

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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°	4.1	7.4	10.8	11.6	18.2	27.0	31.5	28.0	21.1	15.8	15.8
92.5°	16.6	44.8	73.0	80.1	112.6	155.9	177.6	155.7	111.8	78.8	75.7
95°	39.8	91.5	143.1	156.0	277.1	438.5	519.2	463.4	351.5	267.7	258.2
97.5°	68.9	114.4	160.0	171.4	373.3	642.4	777.0	741.7	671.1	618.1	599.9
100°	91.3	132.6	174.0	184.3	408.3	707.0	856.3	858.9	864.1	867.9	846.4
102.5°	110.4	149.0	187.5	197.2	424.4	727.2	878.7	923.7	1013.7	1081.2	1062.8
105°	142.8	175.5	208.2	216.3	436.2	729.5	876.2	977.1	1178.9	1330.3	1320.4
107.5°	176.0	206.5	236.9	244.5	438.5	697.0	826.4	967.2	1248.7	1459.8	1462.2
110°	198.4	225.9	253.3	260.2	435.1	668.3	784.9	942.2	1257.0	1493.0	1503.4

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	220.4	246.5	272.8	279.3	435.2	643.1	747.1	908.2	1230.2	1471.8	1487.6
115°	253.6	277.8	301.9	308.0	439.3	614.3	701.9	857.0	1167.3	1400.0	1421.9
117.5°	286.4	308.3	330.3	335.8	447.5	596.3	670.7	810.8	1090.8	1300.8	1325.2
120°	305.5	326.2	346.8	352.0	454.1	590.2	658.3	786.2	1042.0	1234.0	1257.7
122.5°	324.2	345.0	365.9	371.1	463.6	587.1	648.8	763.9	994.3	1167.1	1190.5
125°	352.8	371.8	390.8	395.5	476.5	584.4	638.4	736.2	932.0	1078.7	1100.2
127.5°	376.1	395.3	414.4	419.2	489.3	582.9	629.7	713.6	881.7	1007.8	1026.0
130°	388.5	409.2	429.8	435.0	498.8	583.9	626.4	701.2	850.8	963.0	979.7
132.5°	401.3	422.0	442.7	447.8	506.4	584.4	623.4	690.4	824.3	924.8	939.8
135°	420.4	439.3	458.1	462.8	514.7	583.9	618.4	674.5	786.7	870.8	883.7
137.5°	440.0	458.5	477.2	481.8	527.1	587.4	617.6	665.0	759.8	830.9	841.6
140°	456.1	473.3	490.5	494.8	534.8	588.1	614.7	655.6	737.6	799.0	808.9
142.5°	468.6	484.5	500.4	504.3	541.1	590.1	614.7	650.6	722.6	776.6	785.1
145°	487.7	501.6	515.3	518.8	549.4	590.2	610.6	640.0	698.8	742.9	749.4
147.5°	506.7	520.2	533.7	537.1	561.5	594.2	610.6	633.7	680.0	714.7	720.1
150°	519.2	531.4	543.6	546.6	568.0	596.4	610.6	630.1	669.2	698.6	702.9
152.5°	532.1	541.4	550.6	552.9	572.1	597.7	610.6	627.2	660.6	685.7	689.0
155°	551.2	558.0	564.8	566.5	581.2	600.7	610.6	623.9	650.5	670.4	672.5
157.5°	565.3	572.0	578.6	580.3	590.4	603.9	610.6	620.9	641.5	657.1	658.6
160°	574.8	580.0	585.2	586.5	594.5	605.2	610.6	619.4	637.1	650.4	651.3
162.5°	584.4	588.3	592.2	593.1	598.9	606.7	610.6	618.1	633.0	644.2	645.0
165°	594.8	598.3	601.8	602.7	605.3	608.8	610.6	615.9	626.6	634.7	635.5
167.5°	604.3	606.0	607.6	608.1	610.3	613.2	614.7	618.1	625.2	630.5	630.8
170°	610.6	612.2	613.9	614.3	614.4	614.6	614.7	618.1	625.2	630.5	630.5
172.5°	613.9	614.2	614.6	614.7	614.7	614.7	614.7	617.4	623.0	627.2	626.8
175°	618.4	618.4	618.4	618.4	617.2	615.5	614.7	616.4	619.9	622.6	622.6
177.5°	618.4	618.4	618.4	618.4	617.4	616.2	615.6	617.0	619.7	621.8	621.4
180°	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4	618.4

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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°	15.8	15.8
92.5°	63.1	50.6
95°	220.2	182.2
97.5°	527.6	455.3
100°	760.2	674.0
102.5°	989.0	915.2
105°	1280.6	1241.0
107.5°	1471.8	1481.3
110°	1544.6	1585.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1551.1	1614.6
115°	1510.0	1598.0
117.5°	1422.7	1520.3
120°	1352.5	1447.3
122.5°	1284.0	1377.6
125°	1186.5	1272.6
127.5°	1098.6	1171.3
130°	1046.9	1114.0
132.5°	999.9	1060.1
135°	935.6	987.4
137.5°	884.0	926.5
140°	848.6	888.2
142.5°	819.2	853.3
145°	775.2	801.0
147.5°	741.4	762.8
150°	720.3	737.6
152.5°	702.0	715.2
155°	681.2	689.8
157.5°	664.6	670.7
160°	654.7	658.3
162.5°	648.3	651.6
165°	639.0	642.5
167.5°	632.3	633.8
170°	630.5	630.5
172.5°	625.5	624.2
175°	622.6	622.6
177.5°	619.9	618.4
180°	618.4	618.4

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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	3.77	4.62	4.76	5.63	6.97	16.94	17.78	17.93	18.79	20.14
	3H	4.47	5.24	5.48	6.26	7.62	18.77	19.53	19.77	20.55	21.91
	4H	4.77	5.49	5.79	6.52	7.89	19.41	20.13	20.43	21.16	22.53
	6H	5.02	5.69	6.05	6.72	8.10	19.84	20.50	20.86	21.53	22.91
	8H	5.09	5.72	6.12	6.77	8.15	19.95	20.59	20.99	21.63	23.01
	12H	5.11	5.71	6.15	6.75	8.15	20.02	20.62	21.06	21.66	23.07
4H	2H	10.98	11.70	12.00	12.72	14.09	17.21	17.93	18.23	18.95	20.33
	3H	12.54	13.15	13.58	14.20	15.59	19.25	19.85	20.28	20.90	22.29
	4H	12.64	13.19	13.68	14.24	15.64	20.01	20.57	21.05	21.61	23.02
	6H	12.65	13.13	13.70	14.19	15.60	20.55	21.02	21.60	22.09	23.49
	8H	12.62	13.07	13.68	14.13	15.55	20.71	21.15	21.76	22.21	23.63
	12H	12.58	12.98	13.65	14.06	15.48	20.79	21.20	21.87	22.27	23.70
8H	4H	14.08	14.52	15.13	15.58	17.00	20.07	20.52	21.12	21.58	23.00
	6H	14.32	14.69	15.40	15.79	17.21	20.70	21.07	21.77	22.17	23.58
	8H	14.34	14.66	15.42	15.75	17.18	20.91	21.24	22.00	22.32	23.76
	12H	14.31	14.59	15.39	15.67	17.15	21.05	21.34	22.14	22.42	23.90
12H	4H	14.22	14.62	15.29	15.70	17.12	20.02	20.43	21.09	21.50	22.93
	6H	14.58	14.90	15.66	15.99	17.42	20.68	21.00	21.76	22.09	23.52
	8H	14.65	14.93	15.73	16.01	17.49	20.91	21.19	21.99	22.27	23.75