

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: P937142

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937142
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-6-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

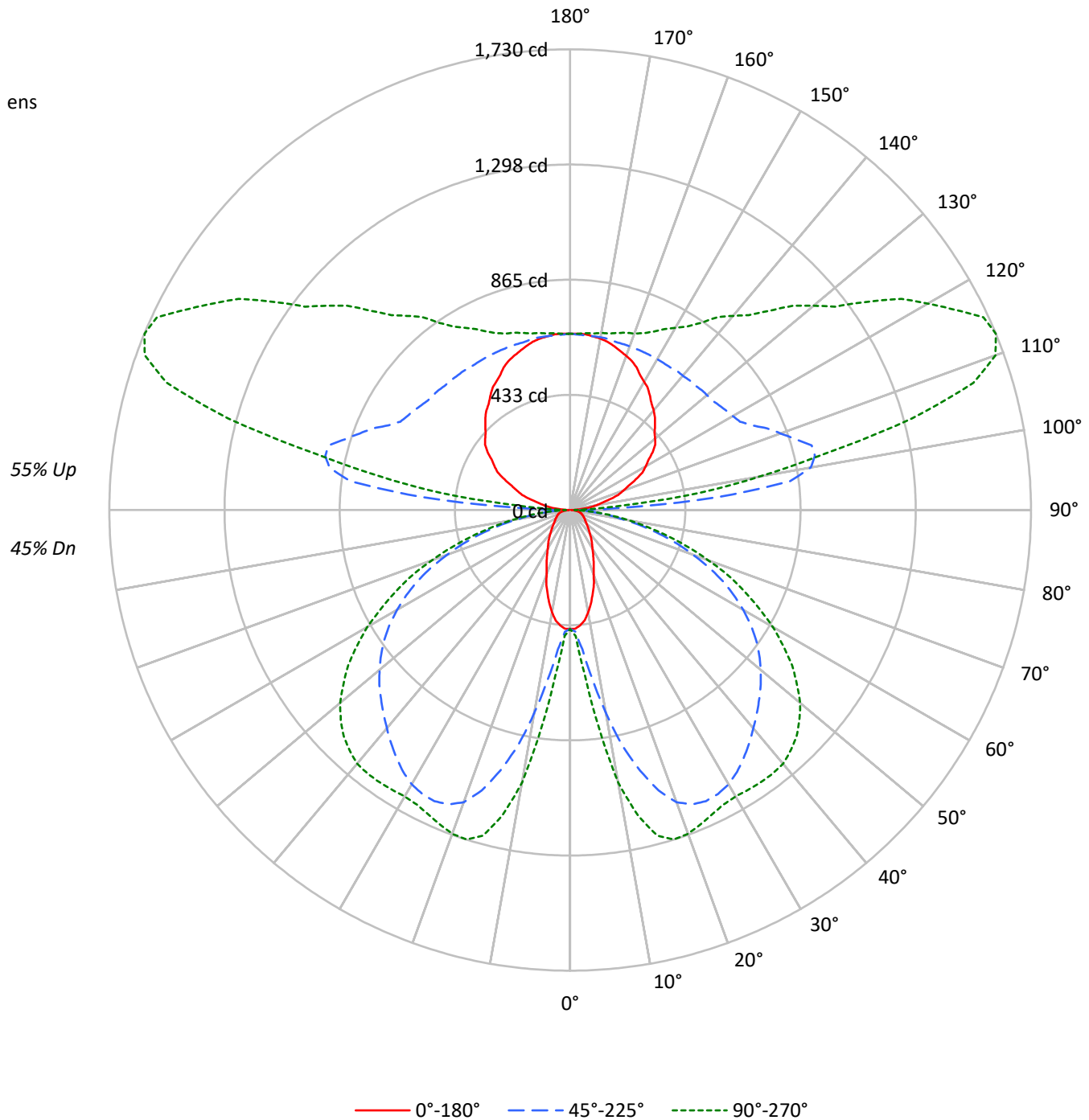
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7748.0 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: 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

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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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	92	88	84	88	84	80	77	70	67	65	57	55	53	44	43	42	37
2	87	79	73	68	79	73	67	63	60	56	53	49	46	44	38	36	35	30
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29	25
4	72	61	53	47	65	56	49	43	46	41	37	38	34	31	30	27	24	21
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	26	23	21	17
6	60	48	40	34	55	44	37	31	37	31	27	30	26	22	24	21	18	15
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	21	18	16	13
8	51	39	31	26	47	36	29	24	30	24	21	25	20	17	20	16	14	11
9	48	35	28	23	44	33	26	21	27	22	18	22	18	15	18	15	12	10
10	44	32	25	20	41	30	23	19	25	20	16	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2760	2760	2760
5°	2695	3188	3709
10°	2443	4647	6149
15°	2076	6069	7426
20°	1690	7032	7568
25°	1409	7357	7414
30°	1187	7402	7400
35°	1050	7277	7591
40°	913	7115	7789
45°	827	6995	7819
50°	758	6888	7690
55°	725	6732	7349
60°	742	6433	6810
65°	770	5980	6071
70°	818	5212	5129
75°	905	4246	4003
80°	980	2941	2696
85°	853	1558	1380

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°	57.7	0.7
10°-20°	255.7	3.3
20°-30°	447.3	5.8
30°-40°	575.9	7.4
40°-50°	643.2	8.3
50°-60°	616.0	8.0
60°-70°	488.2	6.3
70°-80°	287.1	3.7
80°-90°	82.3	1.1
90°-100°	322.9	4.2
100°-110°	849.0	11.0
110°-120°	880.3	11.4
120°-130°	706.1	9.1
130°-140°	554.0	7.2
140°-150°	425.3	5.5
150°-160°	306.3	4.0
160°-170°	187.4	2.4
170°-180°	63.3	0.8
0°-30°	760.8	9.8
0°-40°	1336.6	17.3
0°-60°	2595.8	33.5
0°-90°	3453.4	44.6
90°-120°	2052.2	26.5
90°-150°	3737.6	48.2
90°-180°	4295.0	55.4
0°-180°	7748.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	446	446	446	446	446	
5°	435	466	525	594	615	40
15°	326	601	1013	1228	1267	91
25°	208	681	1206	1259	1261	96
35°	141	651	1136	1201	1248	88
45°	96	519	1004	1150	1202	74
55°	69	330	852	990	1017	63
65°	54	175	632	711	721	54
75°	40	108	347	382	383	42
85°	14	33	86	95	96	15
90°	4	12	34	17	17	5
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°	446.1	446.1	446.1	446.1	446.1	446.1	446.1	446.1	446.1	446.1	446.1
2.5°	446.1	446.1	448.9	450.4	453.2	454.7	457.5	460.4	469.0	470.4	473.3
5°	434.6	440.3	459.0	466.1	486.2	513.5	524.9	543.6	582.3	593.8	601.0
7.5°	417.4	430.3	476.2	487.7	537.9	609.6	639.7	679.9	741.5	771.6	796.0
10°	390.1	417.4	499.1	526.4	608.1	717.1	773.1	829.0	922.2	963.8	979.6
12.5°	360.0	404.5	523.5	560.8	678.4	837.6	905.0	966.7	1072.8	1128.9	1137.5
15°	325.6	385.8	546.5	601.0	753.0	938.0	1012.6	1088.7	1187.7	1227.8	1237.9
17.5°	295.5	371.5	568.0	625.4	810.4	1028.4	1104.5	1167.6	1247.9	1275.2	1282.4
20°	258.2	348.5	582.3	656.9	870.6	1094.5	1167.6	1216.4	1270.9	1288.1	1291.0
22.5°	230.9	324.1	590.9	668.4	910.8	1134.6	1196.3	1235.0	1272.3	1278.0	1279.5
25°	208.0	296.9	589.5	681.3	945.2	1159.0	1206.3	1235.0	1256.5	1259.4	1259.4
27.5°	186.5	266.8	583.8	684.2	971.0	1164.7	1202.0	1222.1	1232.2	1237.9	1237.9
30°	167.8	238.1	569.4	678.4	982.5	1159.0	1189.1	1199.2	1209.2	1217.8	1222.1
32.5°	153.5	210.8	547.9	666.9	983.9	1144.7	1166.2	1171.9	1186.3	1206.3	1213.5
35°	140.6	183.6	523.5	651.2	975.3	1121.7	1136.1	1141.8	1170.5	1200.6	1210.6
37.5°	127.7	163.5	492.0	623.9	962.4	1094.5	1104.5	1114.5	1159.0	1194.9	1206.3
40°	114.7	146.3	454.7	593.8	942.3	1061.4	1070.0	1085.8	1144.7	1186.3	1197.7
42.5°	104.7	132.0	414.5	562.2	916.5	1024.1	1037.0	1059.9	1127.4	1171.9	1184.8
45°	96.1	117.6	371.5	519.2	883.5	985.4	1004.0	1035.6	1107.4	1150.4	1161.9
47.5°	87.5	107.6	327.0	474.7	847.7	946.6	971.0	1006.9	1080.0	1121.7	1131.8
50°	80.3	97.5	282.6	427.4	808.9	905.0	933.7	971.0	1045.6	1084.3	1097.3
52.5°	74.6	88.9	241.0	380.1	764.5	862.0	895.0	933.7	1004.0	1041.3	1049.9
55°	68.8	81.8	205.1	329.9	718.6	816.1	852.0	889.3	958.1	989.7	995.4
57.5°	66.0	76.0	175.0	282.6	669.8	764.5	804.6	839.1	903.6	928.0	933.7
60°	61.7	71.7	152.0	242.4	616.7	715.7	750.1	784.6	839.1	859.1	863.4
62.5°	57.4	68.8	134.8	203.7	562.2	658.3	692.8	724.3	770.2	784.6	790.3
65°	54.5	66.0	121.9	175.0	506.3	598.1	632.5	659.8	697.1	711.4	714.3
67.5°	51.6	63.1	111.9	150.6	450.4	537.9	563.7	589.5	618.2	632.5	634.0
70°	47.3	60.2	103.3	133.4	393.0	469.0	490.5	517.8	540.7	547.9	552.2
72.5°	44.5	55.9	97.5	120.5	334.2	403.0	423.1	438.9	459.0	466.1	466.1
75°	40.2	50.2	91.8	107.6	273.9	329.9	347.1	362.9	378.7	381.5	377.2
77.5°	35.9	44.5	78.9	90.4	213.7	261.0	275.4	284.0	296.9	299.8	301.2
80°	30.1	38.7	61.7	70.3	154.9	192.2	202.2	209.4	220.9	220.9	223.7
82.5°	22.9	30.1	44.5	50.2	104.7	132.0	140.6	144.9	152.0	152.0	152.0
85°	14.3	18.6	28.7	33.0	63.1	80.3	86.1	87.5	93.2	94.7	94.7
87.5°	7.2	10.0	18.6	20.1	33.0	41.6	41.6	44.5	44.5	43.0	41.6
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°	446.1	446.1
2.5°	476.2	473.3
5°	612.4	615.3
7.5°	824.7	823.3
10°	1025.5	1038.4
12.5°	1171.9	1174.8
15°	1260.8	1266.6
17.5°	1295.3	1296.7
20°	1296.7	1293.8
22.5°	1280.9	1278.0
25°	1262.3	1260.8
27.5°	1245.1	1246.5
30°	1237.9	1242.2
32.5°	1237.9	1245.1
35°	1240.8	1247.9
37.5°	1239.3	1247.9
40°	1233.6	1243.6
42.5°	1217.8	1225.0
45°	1193.4	1202.0
47.5°	1161.9	1167.6
50°	1121.7	1127.4
52.5°	1071.4	1072.8
55°	1011.2	1016.9
57.5°	946.6	948.1
60°	874.9	879.2
62.5°	798.9	798.9
65°	718.6	721.4
67.5°	635.4	642.6
70°	550.8	552.2
72.5°	467.6	467.6
75°	381.5	383.0
77.5°	299.8	299.8
80°	222.3	223.7
82.5°	153.5	156.3
85°	96.1	96.1
87.5°	44.5	40.2
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	4.01	4.86	5.01	5.87	7.21	17.18	18.02	18.17	19.03	20.38
	3H	4.71	5.48	5.72	6.50	7.86	19.01	19.77	20.01	20.79	22.15
	4H	5.01	5.73	6.03	6.76	8.13	19.65	20.37	20.67	21.40	22.77
	6H	5.26	5.93	6.29	6.96	8.34	20.08	20.74	21.10	21.77	23.15
	8H	5.33	5.96	6.36	7.01	8.39	20.19	20.83	21.23	21.87	23.25
	12H	5.35	5.95	6.39	6.99	8.39	20.26	20.86	21.30	21.90	23.31
4H	2H	11.22	11.94	12.24	12.96	14.33	17.45	18.17	18.47	19.19	20.57
	3H	12.78	13.39	13.82	14.44	15.82	19.49	20.09	20.52	21.14	22.53
	4H	12.88	13.43	13.92	14.47	15.88	20.25	20.80	21.29	21.85	23.26
	6H	12.89	13.36	13.94	14.43	15.83	20.78	21.26	21.84	22.33	23.73
	8H	12.86	13.31	13.92	14.37	15.79	20.94	21.39	22.00	22.45	23.87
	12H	12.82	13.22	13.89	14.30	15.72	21.03	21.44	22.10	22.51	23.94
8H	4H	14.32	14.76	15.37	15.82	17.24	20.31	20.76	21.36	21.82	23.24
	6H	14.56	14.93	15.63	16.03	17.45	20.93	21.30	22.01	22.41	23.82
	8H	14.58	14.90	15.66	15.99	17.42	21.15	21.48	22.23	22.56	24.00
	12H	14.54	14.83	15.63	15.91	17.39	21.29	21.58	22.38	22.66	24.13
12H	4H	14.46	14.86	15.53	15.94	17.36	20.26	20.67	21.33	21.74	23.16
	6H	14.82	15.14	15.90	16.23	17.66	20.92	21.24	22.00	22.33	23.76
	8H	14.88	15.17	15.97	16.25	17.73	21.14	21.43	22.23	22.51	23.99