

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: P937161

Luminaire Tested: SQ4-FB-075U-075D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937161
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-93050-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

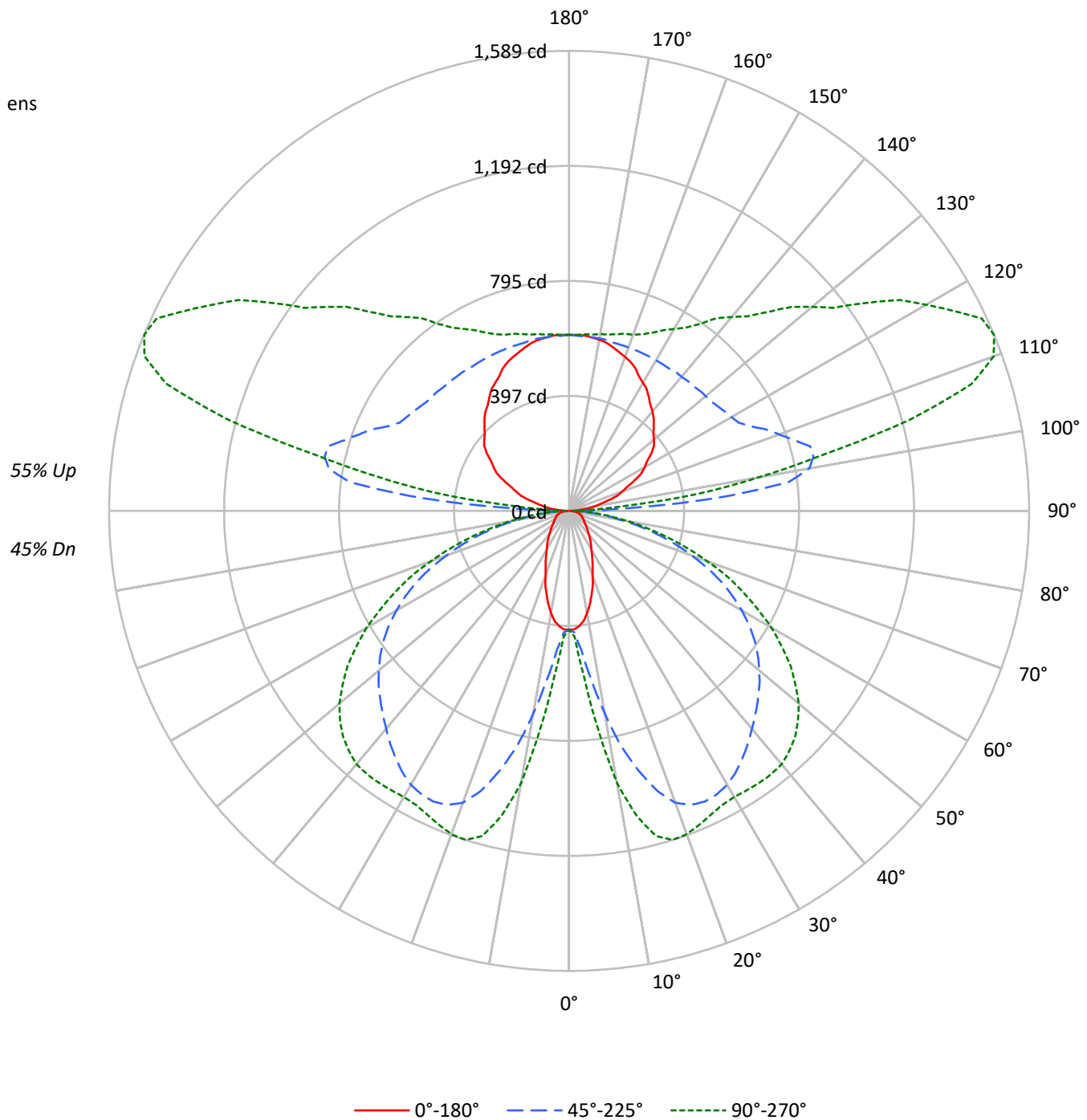
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7116.8 lumens
Efficiency: N/A
Efficacy: 111.9 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°	2534	2534	2534
5°	2475	2929	3407
10°	2244	4268	5648
15°	1907	5575	6821
20°	1551	6459	6951
25°	1294	6758	6810
30°	1090	6799	6797
35°	964	6684	6973
40°	839	6535	7154
45°	760	6425	7183
50°	696	6327	7064
55°	666	6183	6750
60°	682	5909	6256
65°	708	5493	5577
70°	752	4788	4711
75°	830	3900	3677
80°	902	2702	2477
85°	787	1430	1268

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7183 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.0	0.7
10°-20°	234.9	3.3
20°-30°	410.9	5.8
30°-40°	528.9	7.4
40°-50°	590.8	8.3
50°-60°	565.8	8.0
60°-70°	448.4	6.3
70°-80°	263.7	3.7
80°-90°	75.6	1.1
90°-100°	296.6	4.2
100°-110°	779.8	11.0
110°-120°	808.6	11.4
120°-130°	648.6	9.1
130°-140°	508.9	7.2
140°-150°	390.6	5.5
150°-160°	281.3	4.0
160°-170°	172.1	2.4
170°-180°	58.1	0.8
0°-30°	698.8	9.8
0°-40°	1227.8	17.3
0°-60°	2384.4	33.5
0°-90°	3172.0	44.6
90°-120°	1885.0	26.5
90°-150°	3433.2	48.2
90°-180°	3945.0	55.4
0°-180°	7116.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	410	410	410	410	410	
5°	399	428	482	545	565	37
15°	299	552	930	1128	1163	83
25°	191	626	1108	1157	1158	88
35°	129	598	1044	1103	1146	81
45°	88	477	922	1057	1104	68
55°	63	303	783	909	934	58
65°	50	161	581	654	663	50
75°	37	99	319	350	352	39
85°	13	30	79	87	88	14
90°	4	11	31	16	16	4
95°	39	154	511	263	179	44
105°	140	213	862	1309	1221	149
115°	250	303	691	1378	1572	246
125°	347	389	628	1061	1252	308
135°	414	455	608	857	972	320
145°	480	510	601	731	788	301
155°	542	558	601	660	679	249
165°	585	593	601	624	632	165
175°	608	608	605	613	613	58
180°	608	608	608	608	608	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7	409.7
2.5°	409.7	409.7	412.4	413.7	416.3	417.6	420.3	422.9	430.8	432.1	434.8
5°	399.2	404.5	421.6	428.2	446.6	471.6	482.2	499.3	534.9	545.4	552.0
7.5°	383.4	395.2	437.4	447.9	494.0	559.9	587.6	624.5	681.1	708.8	731.2
10°	358.3	383.4	458.5	483.5	558.6	658.7	710.1	761.5	847.1	885.3	899.8
12.5°	330.7	371.5	480.9	515.1	623.2	769.4	831.3	888.0	985.5	1036.9	1044.8
15°	299.1	354.4	501.9	552.0	691.7	861.6	930.1	1000.0	1090.9	1127.8	1137.0
17.5°	271.4	341.2	521.7	574.4	744.4	944.6	1014.5	1072.5	1146.3	1171.3	1177.9
20°	237.1	320.1	534.9	603.4	799.7	1005.3	1072.5	1117.3	1167.3	1183.2	1185.8
22.5°	212.1	297.7	542.8	613.9	836.6	1042.2	1098.8	1134.4	1168.7	1173.9	1175.3
25°	191.0	272.7	541.5	625.8	868.2	1064.6	1108.1	1134.4	1154.2	1156.8	1156.8
27.5°	171.3	245.0	536.2	628.4	891.9	1069.9	1104.1	1122.6	1131.8	1137.0	1137.0
30°	154.1	218.7	523.0	623.2	902.5	1064.6	1092.3	1101.5	1110.7	1118.6	1122.6
32.5°	141.0	193.7	503.3	612.6	903.8	1051.4	1071.2	1076.4	1089.6	1108.1	1114.7
35°	129.1	168.6	480.9	598.1	895.9	1030.3	1043.5	1048.8	1075.1	1102.8	1112.0
37.5°	117.3	150.2	451.9	573.1	884.0	1005.3	1014.5	1023.7	1064.6	1097.5	1108.1
40°	105.4	134.4	417.6	545.4	865.6	974.9	982.8	997.3	1051.4	1089.6	1100.2
42.5°	96.2	121.2	380.7	516.4	841.9	940.7	952.5	973.6	1035.6	1076.4	1088.3
45°	88.3	108.0	341.2	476.9	811.6	905.1	922.2	951.2	1017.2	1056.7	1067.2
47.5°	80.4	98.8	300.4	436.1	778.6	869.5	891.9	924.9	992.0	1030.3	1039.6
50°	73.8	89.6	259.5	392.6	743.0	831.3	857.7	891.9	960.4	996.0	1007.9
52.5°	68.5	81.7	221.3	349.1	702.2	791.8	822.1	857.7	922.2	956.5	964.4
55°	63.2	75.1	188.4	303.0	660.0	749.6	782.6	816.8	880.1	909.0	914.3
57.5°	60.6	69.8	160.7	259.5	615.2	702.2	739.1	770.7	830.0	852.4	857.7
60°	56.7	65.9	139.6	222.6	566.5	657.4	689.0	720.6	770.7	789.2	793.1
62.5°	52.7	63.2	123.8	187.1	516.4	604.7	636.3	665.3	707.5	720.6	725.9
65°	50.1	60.6	112.0	160.7	465.1	549.4	581.0	606.0	640.3	653.5	656.1
67.5°	47.4	58.0	102.8	138.3	413.7	494.0	517.8	541.5	567.8	581.0	582.3
70°	43.5	55.3	94.9	122.5	361.0	430.8	450.6	475.6	496.7	503.3	507.2
72.5°	40.8	51.4	89.6	110.7	307.0	370.2	388.6	403.1	421.6	428.2	428.2
75°	36.9	46.1	84.3	98.8	251.6	303.0	318.8	333.3	347.8	350.4	346.5
77.5°	32.9	40.8	72.5	83.0	196.3	239.8	253.0	260.9	272.7	275.3	276.7
80°	27.7	35.6	56.7	64.6	142.3	176.5	185.8	192.3	202.9	202.9	205.5
82.5°	21.1	27.7	40.8	46.1	96.2	121.2	129.1	133.1	139.6	139.6	139.6
85°	13.2	17.1	26.3	30.3	58.0	73.8	79.0	80.4	85.6	87.0	87.0
87.5°	6.6	9.2	17.1	18.4	30.3	38.2	38.2	40.8	40.8	39.5	38.2
90°	4.0	7.3	10.6	11.4	17.9	26.6	31.0	27.6	20.7	15.5	15.5
92.5°	16.3	44.1	71.8	78.8	110.8	153.4	174.8	153.2	110.0	77.6	74.5
95°	39.2	90.0	140.8	153.5	272.6	431.5	510.9	455.9	345.9	263.4	254.1
97.5°	67.8	112.6	157.4	168.6	367.3	632.1	764.6	729.8	660.3	608.1	590.3
100°	89.9	130.5	171.2	181.4	401.7	695.6	842.6	845.1	850.2	854.0	832.8
102.5°	108.6	146.6	184.5	194.0	417.5	715.6	864.6	908.9	997.5	1063.9	1045.7
105°	140.5	172.7	204.8	212.8	429.2	717.8	862.1	961.4	1160.0	1308.9	1299.2
107.5°	173.2	203.2	233.1	240.6	431.4	685.9	813.1	951.6	1228.7	1436.4	1438.7
110°	195.2	222.3	249.3	256.0	428.1	657.6	772.3	927.1	1236.8	1469.0	1479.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	216.9	242.6	268.4	274.8	428.3	632.8	735.1	893.6	1210.5	1448.1	1463.8
115°	249.5	273.3	297.0	303.0	432.2	604.4	690.6	843.3	1148.6	1377.5	1399.1
117.5°	281.8	303.4	325.0	330.4	440.3	586.7	660.0	797.8	1073.3	1279.9	1303.9
120°	300.6	320.9	341.2	346.3	446.8	580.7	647.7	773.6	1025.3	1214.2	1237.5
122.5°	319.0	339.5	360.0	365.1	456.2	577.7	638.3	751.6	978.3	1148.4	1171.4
125°	347.1	365.8	384.5	389.2	468.8	575.0	628.2	724.4	917.0	1061.4	1082.6
127.5°	370.0	388.9	407.7	412.5	481.5	573.5	619.6	702.2	867.6	991.6	1009.5
130°	382.2	402.6	422.9	428.0	490.8	574.5	616.3	689.9	837.1	947.5	964.0
132.5°	394.9	415.3	435.5	440.6	498.3	575.0	613.4	679.3	811.1	909.9	924.7
135°	413.7	432.2	450.7	455.4	506.4	574.5	608.5	663.6	774.0	856.8	869.5
137.5°	432.9	451.2	469.5	474.1	518.6	578.0	607.7	654.3	747.6	817.6	828.1
140°	448.8	465.7	482.6	486.8	526.2	578.6	604.8	645.1	725.7	786.2	795.9
142.5°	461.1	476.7	492.4	496.2	532.4	580.6	604.8	640.2	711.0	764.1	772.6
145°	479.9	493.5	507.0	510.5	540.6	580.7	600.8	629.7	687.6	731.0	737.3
147.5°	498.6	511.9	525.1	528.5	552.5	584.7	600.8	623.5	669.1	703.3	708.5
150°	510.9	522.9	534.9	537.9	558.9	586.8	600.8	620.0	658.5	687.4	691.7
152.5°	523.6	532.7	541.7	544.0	562.9	588.1	600.8	617.2	650.0	674.7	678.0
155°	542.4	549.0	555.8	557.5	571.9	591.1	600.8	613.8	640.0	659.6	661.7
157.5°	556.2	562.8	569.3	571.0	580.9	594.2	600.8	610.9	631.2	646.5	648.0
160°	565.6	570.7	575.8	577.0	584.9	595.5	600.8	609.5	626.8	639.9	640.8
162.5°	575.0	578.9	582.7	583.6	589.3	597.0	600.8	608.1	622.8	633.9	634.7
165°	585.2	588.7	592.2	593.0	595.6	599.0	600.8	606.0	616.6	624.5	625.4
167.5°	594.6	596.3	597.9	598.3	600.5	603.4	604.8	608.2	615.2	620.3	620.7
170°	600.8	602.4	604.0	604.4	604.5	604.7	604.8	608.2	615.2	620.3	620.3
172.5°	604.0	604.4	604.7	604.8	604.8	604.8	604.8	607.5	613.0	617.1	616.7
175°	608.5	608.5	608.5	608.5	607.3	605.6	604.8	606.6	610.0	612.6	612.6
177.5°	608.5	608.5	608.5	608.5	607.5	606.3	605.7	607.1	609.8	611.8	611.5
180°	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5	608.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	409.7	409.7
2.5°	437.4	434.8
5°	562.6	565.2
7.5°	757.5	756.2
10°	942.0	953.8
12.5°	1076.4	1079.1
15°	1158.1	1163.4
17.5°	1189.7	1191.1
20°	1191.1	1188.4
22.5°	1176.6	1173.9
25°	1159.4	1158.1
27.5°	1143.6	1145.0
30°	1137.0	1141.0
32.5°	1137.0	1143.6
35°	1139.7	1146.3
37.5°	1138.4	1146.3
40°	1133.1	1142.3
42.5°	1118.6	1125.2
45°	1096.2	1104.1
47.5°	1067.2	1072.5
50°	1030.3	1035.6
52.5°	984.1	985.5
55°	928.8	934.1
57.5°	869.5	870.8
60°	803.6	807.6
62.5°	733.8	733.8
65°	660.0	662.7
67.5°	583.6	590.2
70°	505.9	507.2
72.5°	429.5	429.5
75°	350.4	351.8
77.5°	275.3	275.3
80°	204.2	205.5
82.5°	141.0	143.6
85°	88.3	88.3
87.5°	40.8	36.9
90°	15.5	15.5
92.5°	62.1	49.8
95°	216.7	179.3
97.5°	519.2	448.0
100°	748.0	663.2
102.5°	973.2	900.5
105°	1260.1	1221.1
107.5°	1448.1	1457.5
110°	1519.8	1560.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1526.2	1588.7
115°	1485.7	1572.3
117.5°	1399.9	1495.9
120°	1330.8	1424.1
122.5°	1263.4	1355.5
125°	1167.4	1252.2
127.5°	1081.0	1152.5
130°	1030.1	1096.1
132.5°	983.9	1043.1
135°	920.5	971.6
137.5°	869.8	911.6
140°	835.0	874.0
142.5°	806.1	839.7
145°	762.8	788.2
147.5°	729.5	750.6
150°	708.7	725.7
152.5°	690.8	703.7
155°	670.2	678.8
157.5°	654.0	660.0
160°	644.2	647.7
162.5°	637.9	641.2
165°	628.8	632.2
167.5°	622.2	623.6
170°	620.3	620.3
172.5°	615.5	614.2
175°	612.6	612.6
177.5°	610.0	608.5
180°	608.5	608.5



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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	3.71	4.56	4.71	5.57	6.92	16.88	17.73	17.87	18.74	20.08
	3H	4.42	5.18	5.42	6.20	7.56	18.71	19.47	19.72	20.50	21.86
	4H	4.72	5.44	5.73	6.46	7.83	19.35	20.08	20.37	21.10	22.47
	6H	4.97	5.63	6.00	6.66	8.04	19.78	20.45	20.81	21.47	22.86
	8H	5.03	5.67	6.07	6.71	8.09	19.90	20.53	20.93	21.58	22.96
	12H	5.05	5.66	6.09	6.69	8.10	19.96	20.57	21.00	21.61	23.01
4H	2H	10.92	11.64	11.94	12.67	14.04	17.15	17.88	18.18	18.90	20.27
	3H	12.49	13.09	13.52	14.14	15.53	19.19	19.80	20.23	20.85	22.23
	4H	12.58	13.14	13.62	14.18	15.59	19.96	20.51	21.00	21.55	22.96
	6H	12.59	13.07	13.64	14.14	15.54	20.49	20.97	21.54	22.03	23.44
	8H	12.57	13.01	13.62	14.07	15.49	20.65	21.10	21.70	22.15	23.57
	12H	12.52	12.93	13.60	14.00	15.43	20.74	21.14	21.81	22.22	23.64
8H	4H	14.02	14.47	15.07	15.53	16.95	20.01	20.46	21.07	21.52	22.94
	6H	14.26	14.63	15.34	15.73	17.15	20.64	21.01	21.71	22.11	23.53
	8H	14.28	14.61	15.36	15.69	17.13	20.86	21.18	21.94	22.27	23.70
	12H	14.25	14.54	15.34	15.62	17.09	21.00	21.28	22.08	22.36	23.84
12H	4H	14.16	14.57	15.23	15.64	17.07	19.97	20.37	21.04	21.44	22.87
	6H	14.52	14.85	15.60	15.93	17.37	20.62	20.95	21.71	22.03	23.47
	8H	14.59	14.88	15.68	15.96	17.43	20.85	21.14	21.94	22.22	23.69