

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: P937238

Luminaire Tested: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937238
REPORT IS A COMBINATION OF REPORTS P933511 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-100D-92765-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

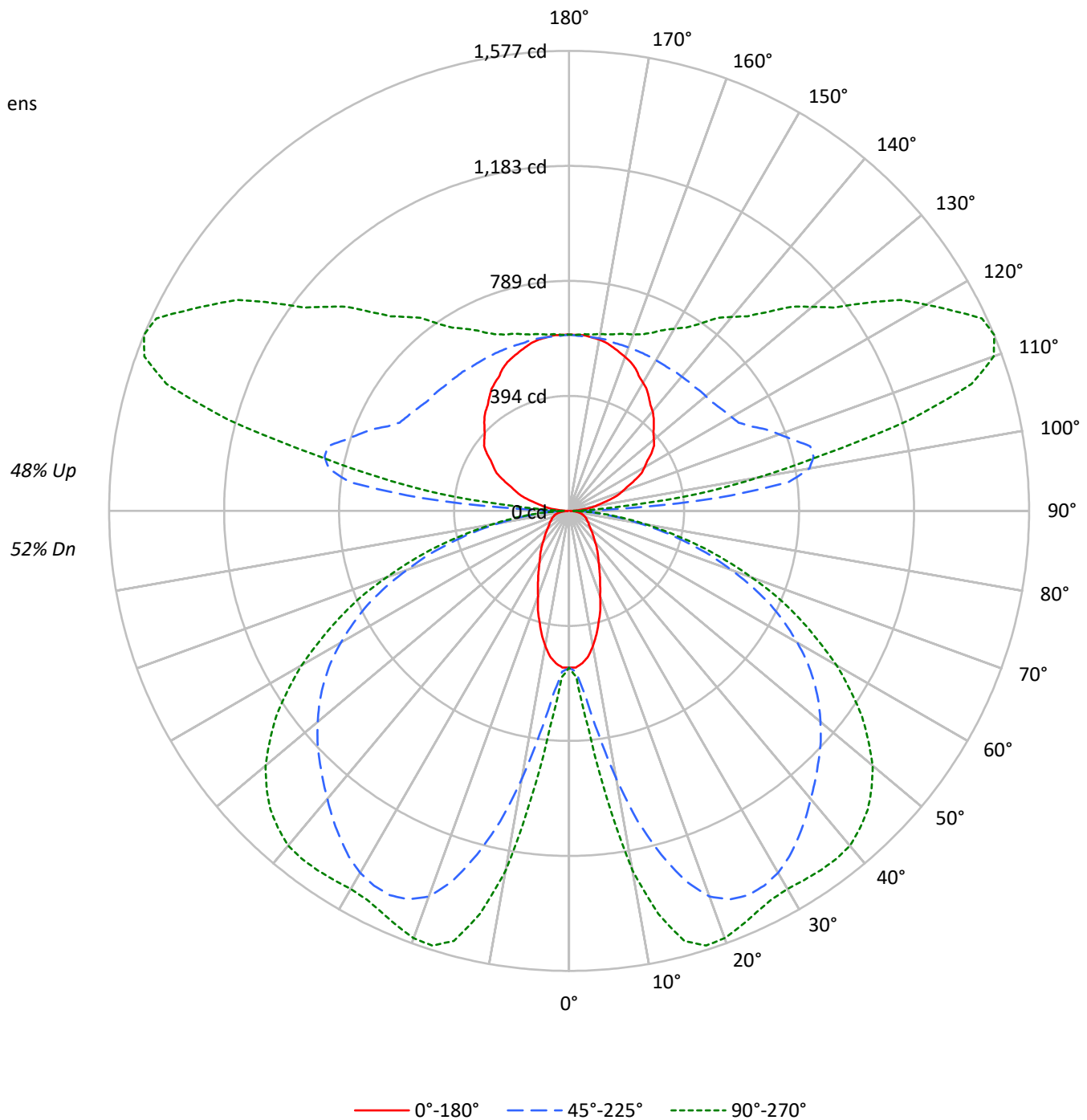
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8076.8 lumens
Efficiency: N/A
Efficacy: 105.2 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): 76.8
Input Voltage (V): NR
Input Current (A_{in}): 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	108	108	108	108	99	99	99	99	84	84	84	70	70	70	58	58	58	52
1	98	93	89	85	90	86	82	79	73	70	68	61	59	57	50	49	47	42
2	88	80	74	69	81	74	69	64	63	59	55	53	50	47	43	41	39	34
3	80	70	62	56	74	65	58	53	55	50	46	46	42	39	38	35	32	28
4	73	62	53	47	67	57	50	44	49	43	38	41	36	33	33	30	27	24
5	67	55	46	40	61	51	43	37	43	37	33	36	32	28	30	26	23	20
6	61	49	40	34	56	45	38	32	39	33	28	32	28	24	27	23	20	17
7	56	44	35	30	52	41	33	28	35	29	24	29	25	21	24	20	18	15
8	52	39	31	26	48	37	29	24	31	26	21	27	22	19	22	18	16	13
9	49	36	28	23	45	33	26	22	29	23	19	24	20	16	20	17	14	12
10	45	33	25	20	42	31	24	19	26	21	17	22	18	15	19	15	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	3324	3324	3324
5°	3247	3842	4469
10°	2944	5599	7409
15°	2501	7313	8946
20°	2036	8473	9118
25°	1697	8864	8933
30°	1431	8918	8915
35°	1264	8767	9147
40°	1101	8572	9384
45°	996	8429	9421
50°	913	8300	9266
55°	873	8111	8855
60°	893	7751	8205
65°	929	7206	7314
70°	986	6281	6180
75°	1089	5116	4822
80°	1181	3543	3250
85°	1031	1877	1663

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 9421 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.5	0.9
10°-20°	308.1	3.8
20°-30°	539.0	6.7
30°-40°	693.8	8.6
40°-50°	775.0	9.6
50°-60°	742.2	9.2
60°-70°	588.2	7.3
70°-80°	345.9	4.3
80°-90°	98.4	1.2
90°-100°	294.5	3.6
100°-110°	774.3	9.6
110°-120°	802.8	9.9
120°-130°	644.0	8.0
130°-140°	505.3	6.3
140°-150°	387.8	4.8
150°-160°	279.3	3.5
160°-170°	170.9	2.1
170°-180°	57.7	0.7
0°-30°	916.6	11.3
0°-40°	1610.4	19.9
0°-60°	3127.6	38.7
0°-90°	4160.2	51.5
90°-120°	1871.6	23.2
90°-150°	3408.7	42.2
90°-180°	3917.0	48.5
0°-180°	8076.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	537	537	537	537	537	
5°	524	562	632	716	741	48
15°	392	724	1220	1479	1526	109
25°	251	821	1453	1517	1519	115
35°	169	785	1369	1446	1504	106
45°	116	626	1210	1386	1448	90
55°	83	398	1027	1192	1225	76
65°	66	211	762	857	869	65
75°	48	130	418	460	461	51
85°	17	40	104	114	116	18
90°	4	11	31	15	15	4
95°	39	152	507	262	178	43
105°	140	211	856	1300	1212	148
115°	248	301	686	1368	1561	245
125°	345	386	624	1054	1243	306
135°	411	452	604	851	965	318
145°	476	507	596	726	783	298
155°	538	554	596	655	674	247
165°	581	589	596	620	628	164
175°	604	604	600	608	608	57
180°	604	604	604	604	604	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4	537.4
2.5°	537.4	537.4	540.9	542.7	546.1	547.8	551.3	554.8	565.1	566.8	570.3
5°	523.7	530.5	553.0	561.7	585.8	618.7	632.5	655.0	701.6	715.5	724.1
7.5°	502.9	518.4	573.8	587.6	648.1	734.5	770.8	819.2	893.5	929.8	959.2
10°	470.0	502.9	601.4	634.2	732.8	864.1	931.5	998.9	1111.2	1161.4	1180.4
12.5°	433.7	487.4	630.8	675.7	817.4	1009.3	1090.5	1164.8	1292.7	1360.1	1370.5
15°	392.3	464.9	658.5	724.1	907.3	1130.2	1220.1	1311.7	1430.9	1479.3	1491.4
17.5°	356.1	447.6	684.4	753.5	976.4	1239.2	1330.7	1406.8	1503.6	1536.3	1545.0
20°	311.1	420.0	701.6	791.5	1049.1	1318.6	1406.8	1465.5	1531.2	1552.0	1555.4
22.5°	278.3	390.6	712.0	805.3	1097.4	1367.0	1441.3	1488.0	1532.9	1539.8	1541.6
25°	250.6	357.7	710.3	820.9	1138.9	1396.4	1453.4	1488.0	1513.9	1517.3	1517.3
27.5°	224.6	321.4	703.4	824.3	1170.0	1403.3	1448.2	1472.4	1484.6	1491.4	1491.4
30°	202.2	286.9	686.1	817.4	1183.8	1396.4	1432.7	1444.8	1456.9	1467.2	1472.4
32.5°	185.0	254.0	660.1	803.6	1185.5	1379.1	1405.0	1411.9	1429.2	1453.4	1462.1
35°	169.3	221.2	630.8	784.6	1175.2	1351.5	1368.7	1375.6	1410.2	1446.5	1458.6
37.5°	153.8	197.0	592.8	751.8	1159.6	1318.6	1330.7	1342.8	1396.4	1439.6	1453.4
40°	138.2	176.2	547.8	715.5	1135.4	1278.8	1289.2	1308.2	1379.1	1429.2	1443.0
42.5°	126.2	159.0	499.4	677.5	1104.3	1233.9	1249.5	1277.1	1358.4	1411.9	1427.5
45°	115.8	141.7	447.6	625.6	1064.6	1187.3	1209.8	1247.8	1334.1	1386.0	1399.9
47.5°	105.4	129.6	394.1	572.1	1021.3	1140.6	1170.0	1213.2	1301.3	1351.5	1363.5
50°	96.8	117.6	340.4	515.0	974.7	1090.5	1125.1	1170.0	1259.8	1306.5	1322.1
52.5°	89.9	107.2	290.3	458.0	921.1	1038.7	1078.4	1125.1	1209.8	1254.7	1265.1
55°	82.9	98.5	247.1	397.5	865.8	983.3	1026.6	1071.5	1154.4	1192.4	1199.4
57.5°	79.5	91.6	210.9	340.4	807.1	921.1	969.5	1011.0	1088.7	1118.1	1125.1
60°	74.3	86.4	183.2	292.0	743.1	862.4	903.9	945.3	1011.0	1035.2	1040.3
62.5°	69.2	82.9	162.5	245.4	677.5	793.2	834.7	872.7	928.0	945.3	952.3
65°	65.7	79.5	146.9	210.9	610.1	720.6	762.2	794.9	839.9	857.2	860.6
67.5°	62.2	76.0	134.8	181.5	542.7	648.1	679.1	710.3	744.9	762.2	763.9
70°	57.0	72.6	124.4	160.7	473.5	565.1	591.1	623.9	651.5	660.1	665.4
72.5°	53.5	67.4	117.6	145.2	402.7	485.6	509.8	528.8	553.0	561.7	561.7
75°	48.4	60.5	110.6	129.6	330.1	397.5	418.2	437.2	456.2	459.7	454.5
77.5°	43.2	53.5	95.1	108.9	257.5	314.5	331.8	342.2	357.7	361.2	362.9
80°	36.3	46.7	74.3	84.7	186.6	231.6	243.6	252.3	266.1	266.1	269.6
82.5°	27.6	36.3	53.5	60.5	126.2	159.0	169.3	174.6	183.2	183.2	183.2
85°	17.3	22.5	34.5	39.8	76.0	96.8	103.7	105.4	112.3	114.1	114.1
87.5°	8.6	12.1	22.5	24.2	39.8	50.1	50.1	53.5	53.5	51.9	50.1
90°	4.0	7.2	10.6	11.3	17.8	26.4	30.8	27.4	20.6	15.4	15.4
92.5°	16.2	43.8	71.3	78.2	110.0	152.3	173.5	152.1	109.2	77.0	73.9
95°	38.9	89.4	139.8	152.4	270.7	428.4	507.3	452.7	343.4	261.5	252.3
97.5°	67.3	111.8	156.3	167.4	364.7	627.6	759.1	724.6	655.6	603.8	586.1
100°	89.2	129.6	170.0	180.1	398.9	690.7	836.5	839.1	844.1	847.9	826.9
102.5°	107.9	145.5	183.2	192.6	414.6	710.4	858.4	902.4	990.4	1056.3	1038.2
105°	139.5	171.4	203.4	211.3	426.2	712.7	856.0	954.5	1151.7	1299.6	1289.9
107.5°	172.0	201.7	231.4	238.9	428.3	681.0	807.3	944.8	1219.9	1426.1	1428.5
110°	193.9	220.7	247.5	254.2	425.0	652.9	766.8	920.5	1228.0	1458.6	1468.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	215.3	240.9	266.5	272.9	425.2	628.3	729.9	887.2	1201.8	1437.8	1453.3
115°	247.7	271.4	294.9	300.9	429.1	600.1	685.7	837.2	1140.4	1367.7	1389.2
117.5°	279.7	301.2	322.7	328.1	437.2	582.5	655.2	792.1	1065.6	1270.8	1294.6
120°	298.4	318.6	338.8	343.8	443.6	576.6	643.1	768.1	1018.0	1205.5	1228.7
122.5°	316.7	337.0	357.4	362.5	452.9	573.5	633.8	746.3	971.4	1140.2	1163.0
125°	344.6	363.2	381.8	386.4	465.5	570.9	623.7	719.3	910.5	1053.9	1074.9
127.5°	367.4	386.1	404.8	409.5	478.0	569.4	615.1	697.2	861.4	984.5	1002.3
130°	379.5	399.7	419.9	424.9	487.3	570.4	611.9	685.0	831.1	940.8	957.1
132.5°	392.1	412.3	432.4	437.5	494.7	570.9	609.0	674.4	805.3	903.4	918.1
135°	410.7	429.1	447.5	452.1	502.8	570.4	604.1	658.9	768.5	850.7	863.3
137.5°	429.8	448.0	466.2	470.7	514.9	573.9	603.4	649.7	742.3	811.8	822.2
140°	445.6	462.4	479.2	483.4	522.4	574.5	600.5	640.5	720.6	780.6	790.2
142.5°	457.8	473.3	488.9	492.7	528.6	576.5	600.5	635.6	705.9	758.7	767.0
145°	476.5	490.0	503.4	506.8	536.7	576.6	596.5	625.2	682.7	725.8	732.1
147.5°	495.1	508.2	521.4	524.7	548.6	580.5	596.5	619.1	664.3	698.2	703.5
150°	507.3	519.1	531.1	534.0	554.9	582.6	596.5	615.6	653.8	682.5	686.7
152.5°	519.8	528.9	537.9	540.1	558.9	583.9	596.5	612.8	645.4	669.9	673.1
155°	538.5	545.1	551.8	553.5	567.8	586.9	596.5	609.5	635.5	654.9	657.0
157.5°	552.3	558.8	565.3	566.9	576.8	589.9	596.5	606.6	626.7	641.9	643.4
160°	561.6	566.6	571.7	572.9	580.8	591.2	596.5	605.1	622.4	635.4	636.2
162.5°	570.9	574.8	578.5	579.5	585.1	592.7	596.5	603.8	618.4	629.3	630.1
165°	581.0	584.5	587.9	588.8	591.3	594.7	596.5	601.7	612.2	620.0	620.9
167.5°	590.4	592.0	593.6	594.0	596.2	599.1	600.5	603.9	610.8	615.9	616.3
170°	596.5	598.1	599.7	600.1	600.2	600.4	600.5	603.9	610.8	615.9	615.9
172.5°	599.7	600.0	600.4	600.5	600.5	600.5	600.5	603.2	608.6	612.7	612.3
175°	604.1	604.1	604.1	604.1	602.9	601.3	600.5	602.2	605.6	608.2	608.2
177.5°	604.1	604.1	604.1	604.1	603.2	602.0	601.4	602.7	605.5	607.5	607.1
180°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1	604.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	537.4	537.4
2.5°	573.8	570.3
5°	737.9	741.4
7.5°	993.7	992.0
10°	1235.7	1251.2
12.5°	1411.9	1415.4
15°	1519.1	1526.0
17.5°	1560.6	1562.2
20°	1562.2	1558.8
22.5°	1543.2	1539.8
25°	1520.8	1519.1
27.5°	1500.1	1501.8
30°	1491.4	1496.6
32.5°	1491.4	1500.1
35°	1494.9	1503.6
37.5°	1493.2	1503.6
40°	1486.2	1498.3
42.5°	1467.2	1475.9
45°	1437.9	1448.2
47.5°	1399.9	1406.8
50°	1351.5	1358.4
52.5°	1291.0	1292.7
55°	1218.4	1225.3
57.5°	1140.6	1142.4
60°	1054.2	1059.3
62.5°	962.6	962.6
65°	865.8	869.2
67.5°	765.6	774.2
70°	663.6	665.4
72.5°	563.4	563.4
75°	459.7	461.4
77.5°	361.2	361.2
80°	267.9	269.6
82.5°	185.0	188.4
85°	115.8	115.8
87.5°	53.5	48.4
90°	15.4	15.4
92.5°	61.7	49.4
95°	215.1	178.0
97.5°	515.5	444.8
100°	742.6	658.5
102.5°	966.2	894.1
105°	1251.1	1212.4
107.5°	1437.8	1447.1
110°	1509.0	1549.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1515.3	1577.3
115°	1475.1	1561.1
117.5°	1389.9	1485.2
120°	1321.3	1413.9
122.5°	1254.4	1345.8
125°	1159.1	1243.3
127.5°	1073.3	1144.3
130°	1022.7	1088.3
132.5°	976.9	1035.6
135°	914.0	964.6
137.5°	863.6	905.1
140°	829.0	867.8
142.5°	800.4	833.7
145°	757.4	782.6
147.5°	724.3	745.2
150°	703.6	720.6
152.5°	685.9	698.7
155°	665.4	673.9
157.5°	649.3	655.2
160°	639.6	643.1
162.5°	633.4	636.6
165°	624.3	627.7
167.5°	617.7	619.1
170°	615.9	615.9
172.5°	611.1	609.8
175°	608.2	608.2
177.5°	605.6	604.1
180°	604.1	604.1



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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	5.31	6.23	6.25	7.19	8.43	18.48	19.39	19.41	20.35	21.60
	3H	6.02	6.85	6.97	7.81	9.08	20.32	21.14	21.26	22.11	23.37
	4H	6.32	7.10	7.28	8.08	9.35	20.96	21.74	21.92	22.71	23.99
	6H	6.58	7.30	7.55	8.27	9.56	21.39	22.11	22.36	23.09	24.38
	8H	6.65	7.33	7.63	8.33	9.61	21.51	22.19	22.49	23.19	24.48
	12H	6.67	7.32	7.65	8.31	9.62	21.58	22.23	22.56	23.22	24.53
4H	2H	12.53	13.31	13.49	14.28	15.56	18.76	19.54	19.73	20.51	21.79
	3H	14.10	14.75	15.08	15.75	17.05	20.80	21.46	21.78	22.46	23.75
	4H	14.20	14.79	15.18	15.79	17.10	21.57	22.17	22.56	23.16	24.48
	6H	14.21	14.73	15.21	15.75	17.06	22.11	22.62	23.11	23.64	24.96
	8H	14.19	14.67	15.19	15.68	17.01	22.27	22.75	23.27	23.76	25.09
	12H	14.15	14.58	15.17	15.61	16.95	22.36	22.80	23.38	23.83	25.16
8H	4H	15.64	16.12	16.64	17.14	18.47	21.64	22.12	22.64	23.13	24.46
	6H	15.89	16.29	16.91	17.34	18.67	22.26	22.66	23.29	23.72	25.04
	8H	15.91	16.26	16.94	17.30	18.64	22.48	22.83	23.51	23.87	25.22
	12H	15.88	16.19	16.92	17.22	18.61	22.62	22.94	23.66	23.97	25.36
12H	4H	15.79	16.22	16.81	17.25	18.59	21.59	22.03	22.61	23.05	24.39
	6H	16.14	16.50	17.18	17.54	18.88	22.25	22.60	23.28	23.64	24.98
	8H	16.22	16.53	17.26	17.56	18.95	22.48	22.79	23.52	23.82	25.21