

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: P936531

Luminaire Tested: SQ4-FB-025U-125D-92765-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

**Test Information**

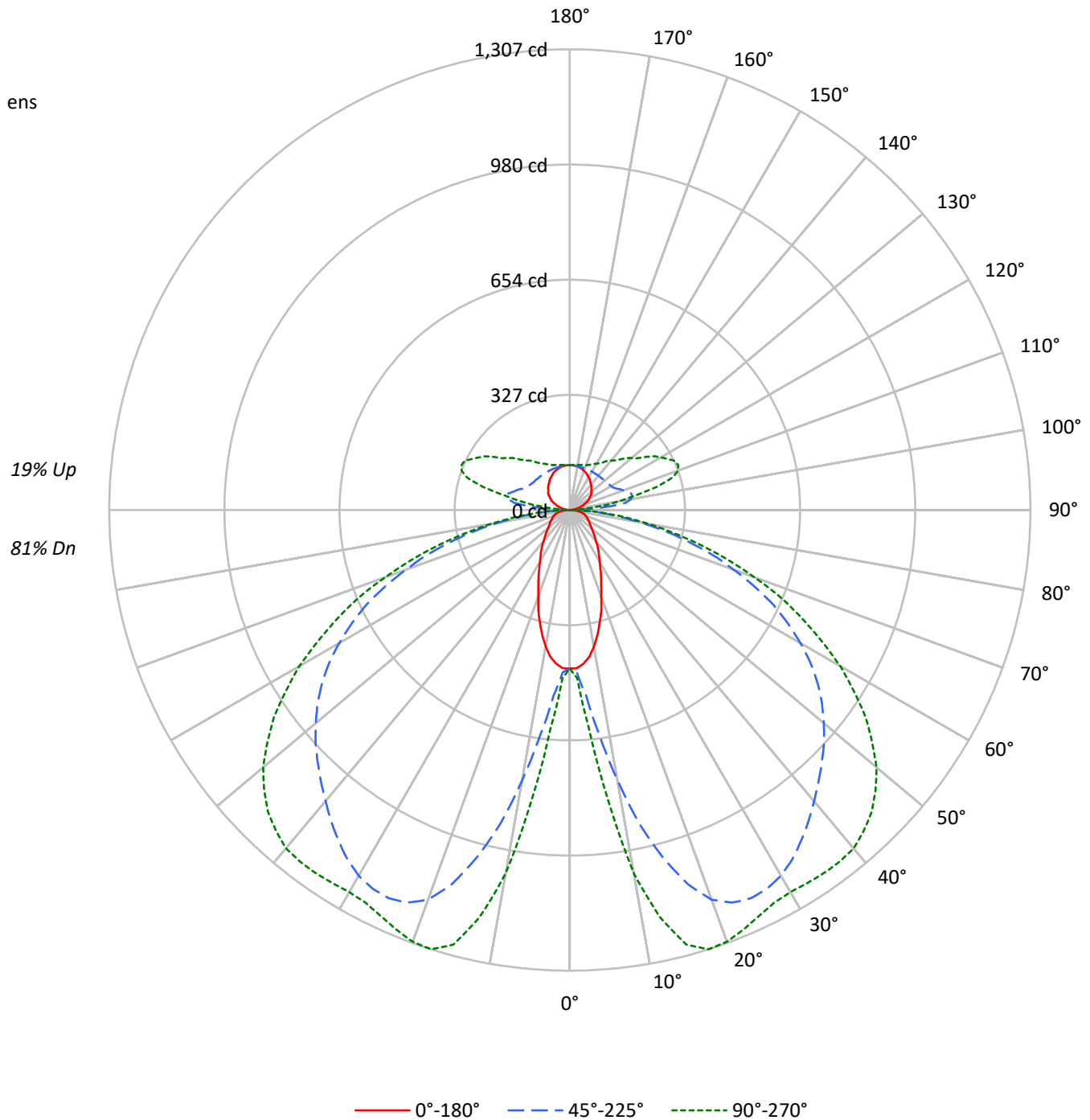
Test Method: LM-79-2019  
Report Number: P936531  
REPORT IS A COMBINATION OF REPORTS P933440 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-025U-125D-92765-1D-UNV-STD-W-4-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4303.9 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 49.6  
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	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	84	84	84	81
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	70	70	70	70	66
2	94	85	78	72	89	82	75	70	75	70	66	69	65	61	63	60	57	57	57	57	54
3	85	74	66	59	81	71	64	58	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	47	43	49	44	40	40	40	40	37
5	71	58	49	42	67	55	47	41	51	44	39	47	41	36	43	38	34	34	34	34	32
6	65	51	42	36	62	49	41	35	46	39	33	42	36	31	39	34	30	30	30	30	27
7	60	46	37	31	57	45	36	30	41	34	29	38	32	27	35	30	26	26	26	26	24
8	55	42	33	27	53	40	32	27	37	30	25	35	29	24	32	27	23	23	23	23	21
9	52	38	30	24	49	37	29	24	34	27	23	32	26	22	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	4170	4170	4170
5°	4070	4817	5606
10°	3688	7017	9294
15°	3131	9160	11223
20°	2546	10608	11438
25°	2121	11092	11205
30°	1786	11153	11184
35°	1576	10959	11473
40°	1372	10710	11772
45°	1241	10524	11819
50°	1135	10355	11623
55°	1084	10112	11107
60°	1106	9655	10294
65°	1144	8967	9175
70°	1211	7804	7753
75°	1328	6347	6050
80°	1418	4386	4077
85°	1192	2314	2088

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 11819 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.1	1.4
10°-20°	257.7	6.0
20°-30°	450.7	10.5
30°-40°	580.2	13.5
40°-50°	648.1	15.1
50°-60°	620.7	14.4
60°-70°	491.9	11.4
70°-80°	289.3	6.7
80°-90°	80.8	1.9
90°-100°	62.1	1.4
100°-110°	163.4	3.8
110°-120°	169.4	3.9
120°-130°	135.8	3.2
130°-140°	106.6	2.5
140°-150°	81.8	1.9
150°-160°	58.9	1.4
160°-170°	36.0	0.8
170°-180°	12.2	0.3
0°-30°	766.6	17.8
0°-40°	1346.8	31.3
0°-60°	2615.6	60.8
0°-90°	3477.7	80.8
90°-120°	394.9	9.2
90°-150°	719.1	16.7
90°-180°	826.0	19.2
0°-180°	4303.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	449	449	449	449	449	
5°	438	470	529	598	620	40
15°	328	606	1020	1237	1276	91
25°	210	686	1216	1269	1270	97
35°	142	656	1145	1210	1257	88
45°	97	523	1012	1159	1211	75
55°	69	332	858	997	1025	63
65°	55	176	637	717	727	54
75°	40	108	350	384	386	42
85°	14	33	87	95	97	15
90°	1	2	6	3	3	2
95°	8	32	107	55	38	9
105°	30	45	181	274	256	31
115°	52	64	145	288	329	52
125°	73	82	132	222	262	65
135°	87	95	127	180	204	67
145°	100	107	126	153	165	63
155°	114	117	126	138	142	52
165°	123	124	126	131	132	35
175°	127	127	127	128	128	12
180°	127	127	127	127	127	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4	449.4
2.5°	449.4	449.4	452.3	453.8	456.7	458.2	461.1	464.0	472.6	474.0	476.9
5°	437.9	443.7	462.5	469.7	489.9	517.4	529.0	547.8	586.8	598.3	605.6
7.5°	420.6	433.6	479.8	491.4	541.9	614.2	644.6	685.1	747.2	777.5	802.1
10°	393.1	420.6	502.9	530.4	612.8	722.6	779.0	835.3	929.3	971.2	987.1
12.5°	362.7	407.6	527.5	565.1	683.6	844.0	912.0	974.1	1081.1	1137.4	1146.1
15°	328.1	388.8	550.7	605.6	758.7	945.2	1020.3	1097.0	1196.7	1237.1	1247.3
17.5°	297.7	374.4	572.4	630.2	816.5	1036.2	1112.8	1176.5	1257.4	1284.9	1292.0
20°	260.2	351.2	586.8	661.9	877.3	1102.8	1176.5	1225.6	1280.5	1297.8	1300.8
22.5°	232.7	326.6	595.4	673.5	917.8	1143.2	1205.3	1244.4	1282.0	1287.8	1289.1
25°	209.6	299.2	594.0	686.5	952.4	1167.8	1215.5	1244.4	1266.1	1269.0	1269.0
27.5°	187.9	268.8	588.2	689.4	978.4	1173.6	1211.2	1231.4	1241.5	1247.3	1247.3
30°	169.1	239.9	573.8	683.6	990.0	1167.8	1198.1	1208.2	1218.3	1227.0	1231.4
32.5°	154.7	212.4	552.1	672.0	991.5	1153.3	1175.0	1180.7	1195.3	1215.5	1222.7
35°	141.6	185.0	527.5	656.1	982.8	1130.2	1144.6	1150.4	1179.3	1209.7	1219.8
37.5°	128.6	164.8	495.7	628.7	969.8	1102.8	1112.8	1123.0	1167.8	1203.9	1215.5
40°	115.6	147.4	458.2	598.3	949.5	1069.5	1078.2	1094.1	1153.3	1195.3	1206.8
42.5°	105.5	133.0	417.7	566.5	923.5	1032.0	1044.9	1068.1	1136.0	1180.7	1193.8
45°	96.9	118.6	374.4	523.2	890.3	992.9	1011.7	1043.5	1115.7	1159.1	1170.7
47.5°	88.1	108.4	329.5	478.4	854.1	953.9	978.4	1014.6	1088.2	1130.2	1140.3
50°	81.0	98.3	284.7	430.7	815.1	912.0	940.9	978.4	1053.6	1092.6	1105.7
52.5°	75.2	89.6	242.8	383.0	770.3	868.6	901.9	940.9	1011.7	1049.3	1057.9
55°	69.4	82.3	206.7	332.4	724.0	822.4	858.5	896.1	965.4	997.2	1003.0
57.5°	66.5	76.6	176.3	284.7	674.9	770.3	810.8	845.5	910.5	935.1	940.9
60°	62.2	72.3	153.2	244.3	621.5	721.2	755.9	790.6	845.5	865.7	870.0
62.5°	57.8	69.4	135.9	205.2	566.5	663.4	698.1	729.9	776.1	790.6	796.3
65°	54.9	66.5	122.8	176.3	510.2	602.7	637.4	664.9	702.4	716.9	719.8
67.5°	52.0	63.6	112.7	151.8	453.8	541.9	568.0	594.0	622.9	637.4	638.8
70°	47.7	60.7	104.0	134.4	396.0	472.6	494.3	521.7	544.8	552.1	556.5
72.5°	44.8	56.4	98.3	121.4	336.8	406.1	426.4	442.3	462.5	469.7	469.7
75°	40.5	50.6	92.5	108.4	276.1	332.4	349.8	365.7	381.5	384.4	380.1
77.5°	36.1	44.8	79.5	91.1	215.3	263.1	277.5	286.1	299.2	302.0	303.5
80°	30.3	39.0	62.2	70.8	156.0	193.6	203.8	211.0	222.6	222.6	225.5
82.5°	23.1	30.3	44.8	50.6	105.5	133.0	141.6	146.0	153.2	153.2	153.2
85°	14.4	18.8	28.9	33.2	63.6	81.0	86.7	88.1	94.0	95.4	95.4
87.5°	7.3	10.1	18.8	20.2	33.2	41.9	41.9	44.8	44.8	43.4	41.9
90°	0.9	1.5	2.2	2.4	3.8	5.6	6.5	5.8	4.4	3.2	3.2
92.5°	3.4	9.2	15.0	16.5	23.2	32.2	36.6	32.1	23.1	16.2	15.5
95°	8.2	18.9	29.6	32.2	57.1	90.4	107.0	95.5	72.4	55.2	53.2
97.5°	14.2	23.6	33.0	35.4	77.0	132.4	160.1	152.9	138.3	127.4	123.6
100°	18.8	27.3	35.9	38.0	84.1	145.7	176.5	177.0	178.1	178.9	174.4
102.5°	22.7	30.7	38.7	40.7	87.5	149.9	181.1	190.4	208.9	222.8	219.0
105°	29.5	36.2	42.9	44.6	89.9	150.3	180.6	201.4	243.0	274.2	272.1
107.5°	36.3	42.5	48.9	50.4	90.4	143.7	170.3	199.4	257.3	300.9	301.4
110°	40.9	46.5	52.2	53.6	89.7	137.8	161.8	194.2	259.1	307.7	309.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	45.4	50.8	56.2	57.6	89.7	132.6	154.0	187.2	253.6	303.4	306.6
115°	52.3	57.2	62.2	63.5	90.5	126.7	144.7	176.6	240.6	288.5	293.1
117.5°	59.0	63.5	68.1	69.2	92.2	122.9	138.3	167.2	224.8	268.1	273.2
120°	62.9	67.2	71.5	72.5	93.5	121.6	135.6	162.0	214.8	254.4	259.2
122.5°	66.8	71.1	75.3	76.4	95.5	120.9	133.7	157.4	204.9	240.5	245.3
125°	72.7	76.6	80.5	81.6	98.2	120.4	131.5	151.7	192.1	222.3	226.8
127.5°	77.5	81.5	85.4	86.4	100.9	120.1	129.7	147.1	181.8	207.7	211.5
130°	80.0	84.3	88.6	89.7	102.8	120.3	129.1	144.5	175.4	198.5	201.9
132.5°	82.8	87.0	91.3	92.3	104.4	120.4	128.5	142.3	169.9	190.6	193.7
135°	86.7	90.5	94.5	95.4	106.1	120.3	127.4	139.0	162.1	179.5	182.1
137.5°	90.7	94.6	98.4	99.3	108.6	121.0	127.3	137.0	156.6	171.3	173.5
140°	94.0	97.5	101.1	102.0	110.2	121.2	126.7	135.1	152.0	164.7	166.7
142.5°	96.6	99.8	103.1	103.9	111.5	121.6	126.7	134.1	149.0	160.1	161.9
145°	100.5	103.3	106.3	106.9	113.3	121.6	125.8	131.9	144.0	153.1	154.5
147.5°	104.5	107.2	110.0	110.7	115.7	122.5	125.8	130.6	140.2	147.3	148.4
150°	107.0	109.5	112.1	112.7	117.0	122.9	125.8	129.8	137.9	144.0	144.9
152.5°	109.7	111.5	113.4	113.9	117.9	123.2	125.8	129.2	136.1	141.4	142.0
155°	113.6	115.0	116.4	116.8	119.7	123.8	125.8	128.5	134.1	138.2	138.6
157.5°	116.5	117.9	119.2	119.6	121.6	124.4	125.8	127.9	132.2	135.4	135.7
160°	118.5	119.5	120.6	120.9	122.5	124.7	125.8	127.6	131.3	134.0	134.2
162.5°	120.4	121.2	122.1	122.2	123.4	125.0	125.8	127.4	130.4	132.7	132.9
165°	122.6	123.3	124.0	124.2	124.7	125.5	125.8	126.9	129.1	130.8	130.9
167.5°	124.5	124.9	125.2	125.3	125.7	126.3	126.7	127.4	128.8	129.9	130.0
170°	125.8	126.2	126.5	126.6	126.6	126.7	126.7	127.4	128.8	129.9	129.9
172.5°	126.5	126.6	126.7	126.7	126.7	126.7	126.7	127.3	128.4	129.2	129.1
175°	127.4	127.4	127.4	127.4	127.2	126.8	126.7	127.0	127.8	128.3	128.3
177.5°	127.4	127.4	127.4	127.4	127.3	127.0	126.8	127.1	127.7	128.1	128.0
180°	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4	127.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	449.4	449.4
2.5°	479.8	476.9
5°	617.1	620.0
7.5°	831.1	829.6
10°	1033.3	1046.4
12.5°	1180.7	1183.7
15°	1270.4	1276.2
17.5°	1305.1	1306.6
20°	1306.6	1303.7
22.5°	1290.6	1287.8
25°	1271.8	1270.4
27.5°	1254.5	1255.9
30°	1247.3	1251.6
32.5°	1247.3	1254.5
35°	1250.2	1257.4
37.5°	1248.7	1257.4
40°	1242.9	1253.0
42.5°	1227.0	1234.2
45°	1202.4	1211.2
47.5°	1170.7	1176.5
50°	1130.2	1136.0
52.5°	1079.6	1081.1
55°	1018.9	1024.7
57.5°	953.9	955.3
60°	881.6	886.0
62.5°	805.0	805.0
65°	724.0	726.9
67.5°	640.3	647.5
70°	555.0	556.5
72.5°	471.1	471.1
75°	384.4	385.9
77.5°	302.0	302.0
80°	224.0	225.5
82.5°	154.7	157.5
85°	96.9	96.9
87.5°	44.8	40.5
90°	3.2	3.2
92.5°	13.0	10.4
95°	45.4	37.6
97.5°	108.7	93.9
100°	156.7	139.0
102.5°	203.8	188.6
105°	264.0	255.8
107.5°	303.4	305.4
110°	318.3	326.9





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	319.7	332.8
115°	311.2	329.4
117.5°	293.2	313.4
120°	278.8	298.3
122.5°	264.6	283.9
125°	244.5	262.3
127.5°	226.4	241.4
130°	215.8	229.6
132.5°	206.1	218.5
135°	192.9	203.5
137.5°	182.2	191.0
140°	174.8	183.0
142.5°	168.9	175.9
145°	159.8	165.1
147.5°	152.8	157.2
150°	148.4	152.0
152.5°	144.7	147.4
155°	140.4	142.2
157.5°	137.0	138.3
160°	135.0	135.6
162.5°	133.6	134.3
165°	131.7	132.4
167.5°	130.3	130.6
170°	129.9	129.9
172.5°	128.9	128.6
175°	128.3	128.3
177.5°	127.8	127.4
180°	127.4	127.4



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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	8.38	9.68	9.01	10.33	11.08	21.52	22.82	22.15	23.47	24.22
	3H	9.11	10.29	9.76	10.95	11.73	23.37	24.55	24.02	25.21	25.99
	4H	9.43	10.55	10.10	11.22	12.01	24.03	25.14	24.69	25.81	26.61
	6H	9.71	10.74	10.38	11.42	12.23	24.47	25.50	25.14	26.18	26.99
	8H	9.79	10.77	10.47	11.48	12.29	24.59	25.58	25.28	26.28	27.10
	12H	9.82	10.76	10.51	11.46	12.30	24.67	25.61	25.37	26.31	27.15
4H	2H	15.62	16.73	16.29	17.40	18.20	21.84	22.96	22.51	23.63	24.42
	3H	17.23	18.16	17.91	18.87	19.69	23.91	24.85	24.59	25.56	26.37
	4H	17.34	18.19	18.04	18.91	19.75	24.69	25.54	25.39	26.25	27.10
	6H	17.38	18.12	18.10	18.86	19.71	25.24	25.98	25.96	26.72	27.57
	8H	17.37	18.06	18.09	18.80	19.66	25.41	26.10	26.13	26.84	27.70
	12H	17.35	17.97	18.09	18.73	19.60	25.52	26.14	26.26	26.90	27.77
8H	4H	18.81	19.51	19.54	20.24	21.11	24.79	25.48	25.51	26.22	27.08
	6H	19.08	19.66	19.83	20.43	21.30	25.42	26.00	26.18	26.78	27.65
	8H	19.10	19.62	19.87	20.40	21.28	25.64	26.16	26.41	26.94	27.82
	12H	19.09	19.55	19.86	20.32	21.26	25.80	26.26	26.57	27.03	27.97
12H	4H	18.98	19.60	19.72	20.36	21.23	24.76	25.39	25.50	26.15	27.02
	6H	19.34	19.86	20.10	20.63	21.52	25.41	25.93	26.18	26.71	27.59
	8H	19.43	19.89	20.20	20.65	21.60	25.66	26.11	26.43	26.88	27.83