

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: P936343

Luminaire Tested: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-8-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936343
REPORT IS A COMBINATION OF REPORTS P933454 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-8-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

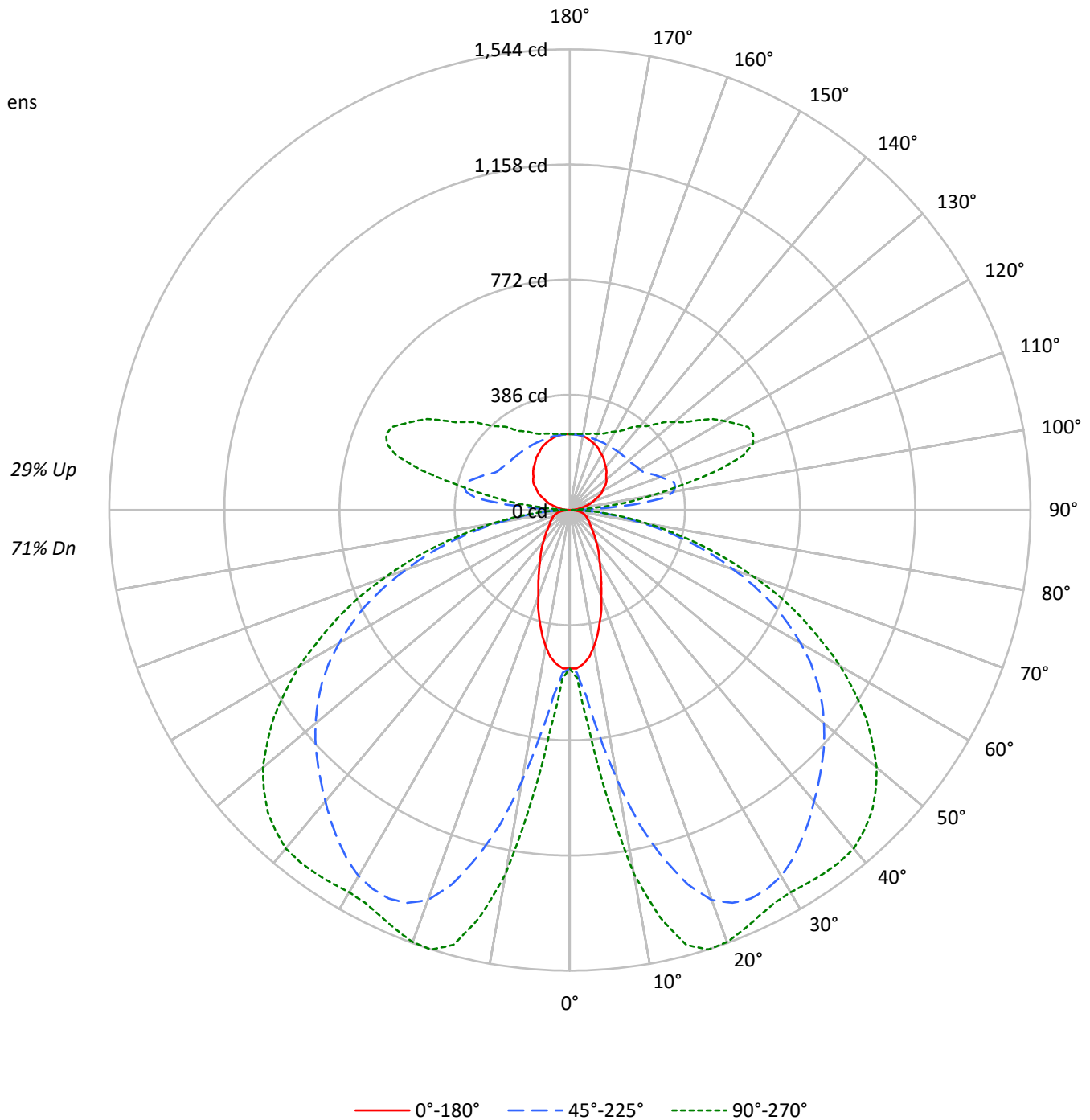
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5763.7 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 60
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

TEST NUMBER: P936343
CATALOG NUMBER: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-8-2700K

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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2465	2465	2465
5°	2408	2849	3313
10°	2184	4153	5493
15°	1856	5426	6633
20°	1511	6288	6760
25°	1261	6580	6622
30°	1063	6621	6610
35°	940	6511	6781
40°	819	6368	6957
45°	742	6264	6985
50°	681	6170	6869
55°	652	6032	6565
60°	668	5766	6084
65°	694	5364	5423
70°	740	4678	4581
75°	819	3814	3575
80°	896	2646	2409
85°	796	1403	1234

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6985 cd/sqm



TEST NUMBER: P936343

CATALOG NUMBER: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-8-2700K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.7	1.2
10°-20°	304.6	5.3
20°-30°	532.8	9.2
30°-40°	685.8	11.9
40°-50°	766.1	13.3
50°-60°	733.7	12.7
60°-70°	581.4	10.1
70°-80°	341.9	5.9
80°-90°	96.0	1.7
90°-100°	124.3	2.2
100°-110°	326.7	5.7
110°-120°	338.8	5.9
120°-130°	271.7	4.7
130°-140°	213.2	3.7
140°-150°	163.7	2.8
150°-160°	117.8	2.0
160°-170°	72.1	1.3
170°-180°	24.4	0.4
0°-30°	906.1	15.7
0°-40°	1591.9	27.6
0°-60°	3091.7	53.6
0°-90°	4111.0	71.3
90°-120°	789.7	13.7
90°-150°	1438.3	25.0
90°-180°	1653.0	28.7
0°-180°	5763.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	531	531	531	531	531	
5°	518	555	625	707	733	48
15°	388	716	1206	1462	1508	108
25°	248	811	1437	1500	1502	114
35°	167	776	1353	1430	1486	105
45°	114	618	1196	1370	1432	89
55°	82	393	1015	1179	1211	75
65°	65	208	753	847	859	64
75°	48	128	413	454	456	50
85°	17	39	102	113	114	18
90°	2	5	13	6	6	3
95°	16	64	214	110	75	18
105°	59	89	361	548	512	62
115°	104	127	289	577	659	103
125°	146	163	263	445	525	129
135°	173	191	255	359	407	134
145°	201	214	252	306	330	126
155°	227	234	252	276	284	104
165°	245	248	252	262	265	69
175°	255	255	253	257	257	24
180°	255	255	255	255	255	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3	531.3
2.5°	531.3	531.3	534.7	536.4	539.8	541.5	544.9	548.4	558.6	560.3	563.7
5°	517.6	524.4	546.6	555.2	579.1	611.6	625.2	647.4	693.6	707.2	715.8
7.5°	497.1	512.5	567.1	580.8	640.6	726.0	761.9	809.7	883.2	919.0	948.1
10°	464.6	497.1	594.5	626.9	724.3	854.1	920.7	987.5	1098.5	1148.0	1166.8
12.5°	428.8	481.7	623.5	667.9	808.0	997.7	1078.0	1151.4	1277.9	1344.5	1354.7
15°	387.8	459.5	650.8	715.8	896.8	1117.3	1206.1	1296.7	1414.5	1462.4	1474.3
17.5°	351.9	442.4	676.5	744.8	965.2	1224.9	1315.4	1390.6	1486.3	1518.7	1527.3
20°	307.5	415.1	693.6	782.4	1037.0	1303.5	1390.6	1448.7	1513.6	1534.1	1537.5
22.5°	275.0	386.1	703.8	796.0	1084.8	1351.3	1424.8	1470.9	1515.3	1522.1	1523.8
25°	247.7	353.6	702.1	811.4	1125.8	1380.4	1436.7	1470.9	1496.5	1499.9	1499.9
27.5°	222.1	317.7	695.3	814.8	1156.6	1387.2	1431.6	1455.5	1467.5	1474.3	1474.3
30°	199.9	283.6	678.2	808.0	1170.2	1380.4	1416.2	1428.2	1440.1	1450.4	1455.5
32.5°	182.8	251.1	652.6	794.3	1171.9	1363.3	1388.9	1395.7	1412.8	1436.7	1445.3
35°	167.4	218.7	623.5	775.5	1161.7	1335.9	1353.0	1359.9	1394.0	1429.9	1441.9
37.5°	152.0	194.7	585.9	743.1	1146.3	1303.5	1315.4	1327.4	1380.4	1423.1	1436.7
40°	136.7	174.2	541.5	707.2	1122.4	1264.2	1274.4	1293.2	1363.3	1412.8	1426.5
42.5°	124.7	157.2	493.7	669.6	1091.7	1219.8	1235.2	1262.5	1342.8	1395.7	1411.1
45°	114.5	140.1	442.4	618.4	1052.4	1173.7	1195.9	1233.4	1318.9	1370.1	1383.8
47.5°	104.2	128.1	389.5	565.4	1009.7	1127.5	1156.6	1199.3	1286.4	1335.9	1347.9
50°	95.7	116.2	336.5	509.1	963.5	1078.0	1112.2	1156.6	1245.4	1291.5	1306.9
52.5°	88.8	105.9	287.0	452.7	910.5	1026.7	1066.0	1112.2	1195.9	1240.3	1250.5
55°	82.0	97.4	244.3	392.9	855.8	972.1	1014.8	1059.2	1141.2	1178.8	1185.6
57.5°	78.6	90.5	208.4	336.5	797.8	910.5	958.3	999.4	1076.3	1105.3	1112.2
60°	73.5	85.4	181.1	288.7	734.6	852.4	893.4	934.4	999.4	1023.3	1028.5
62.5°	68.3	82.0	160.6	242.6	669.6	784.1	825.1	862.7	917.3	934.4	941.2
65°	64.9	78.6	145.2	208.4	603.0	712.3	753.3	785.8	830.2	847.3	850.7
67.5°	61.5	75.2	133.2	179.4	536.4	640.6	671.3	702.1	736.3	753.3	755.0
70°	56.4	71.7	123.0	158.9	468.1	558.6	584.2	616.7	644.0	652.6	657.7
72.5°	53.0	66.6	116.2	143.5	398.0	480.0	503.9	522.7	546.6	555.2	555.2
75°	47.8	59.8	109.3	128.1	326.3	392.9	413.4	432.2	451.0	454.4	449.3
77.5°	42.7	53.0	94.0	107.6	254.5	310.9	328.0	338.2	353.6	357.0	358.7
80°	35.9	46.1	73.5	83.7	184.5	228.9	240.9	249.4	263.1	263.1	266.5
82.5°	27.3	35.9	53.0	59.8	124.7	157.2	167.4	172.5	181.1	181.1	181.1
85°	17.1	22.2	34.2	39.3	75.2	95.7	102.5	104.2	111.0	112.7	112.7
87.5°	8.5	12.0	22.2	23.9	39.3	49.5	49.5	53.0	53.0	51.2	49.5
90°	1.7	3.1	4.4	4.8	7.5	11.2	13.0	11.5	8.6	6.5	6.5
92.5°	6.8	18.4	30.2	33.1	46.5	64.3	73.2	64.1	46.1	32.5	31.3
95°	16.4	37.7	59.0	64.3	114.2	180.7	214.0	191.0	144.9	110.4	106.4
97.5°	28.4	47.2	65.9	70.6	153.8	264.8	320.3	305.8	276.7	254.8	247.4
100°	37.7	54.7	71.7	75.9	168.3	291.3	352.9	354.0	356.2	357.8	348.9
102.5°	45.5	61.4	77.3	81.2	174.9	299.8	362.2	380.8	417.8	445.7	438.1
105°	58.8	72.3	85.8	89.2	179.9	300.7	361.2	402.8	486.0	548.4	544.3
107.5°	72.5	85.1	97.6	100.8	180.7	287.3	340.6	398.6	514.7	601.7	602.8
110°	81.8	93.1	104.5	107.3	179.4	275.5	323.5	388.4	518.1	615.4	619.7



TEST NUMBER: P936343

CATALOG NUMBER: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	90.9	101.6	112.4	115.1	179.5	265.1	308.0	374.4	507.1	606.7	613.3
115°	104.5	114.5	124.4	126.9	181.1	253.2	289.3	353.3	481.2	577.1	586.2
117.5°	118.0	127.1	136.1	138.5	184.5	245.8	276.5	334.2	449.6	536.2	546.3
120°	125.9	134.4	143.0	145.1	187.2	243.3	271.4	324.1	429.5	508.6	518.4
122.5°	133.6	142.2	150.8	153.0	191.2	242.0	267.4	314.9	409.9	481.1	490.8
125°	145.5	153.3	161.1	163.1	196.4	240.9	263.2	303.5	384.2	444.7	453.5
127.5°	155.0	162.9	170.8	172.8	201.7	240.3	259.6	294.2	363.5	415.4	423.0
130°	160.1	168.7	177.1	179.3	205.6	240.7	258.2	289.0	350.7	396.9	403.8
132.5°	165.4	174.0	182.4	184.6	208.7	240.9	257.0	284.6	339.8	381.2	387.4
135°	173.3	181.1	188.8	190.8	212.2	240.7	255.0	278.1	324.3	359.0	364.3
137.5°	181.3	189.0	196.7	198.7	217.3	242.1	254.6	274.2	313.2	342.5	346.9
140°	188.0	195.1	202.2	204.0	220.5	242.4	253.4	270.3	304.1	329.4	333.5
142.5°	193.2	199.7	206.3	207.9	223.1	243.3	253.4	268.3	297.9	320.1	323.6
145°	201.1	206.8	212.4	213.9	226.5	243.3	251.7	263.8	288.1	306.3	308.9
147.5°	208.9	214.5	220.0	221.4	231.5	245.0	251.7	261.3	280.3	294.6	296.8
150°	214.0	219.1	224.0	225.3	234.1	245.8	251.7	259.7	275.9	287.9	289.7
152.5°	219.3	223.1	226.9	227.9	235.8	246.4	251.7	258.5	272.3	282.6	284.0
155°	227.2	230.0	232.8	233.5	239.6	247.7	251.7	257.2	268.1	276.3	277.2
157.5°	233.0	235.7	238.5	239.2	243.3	248.9	251.7	256.0	264.4	270.8	271.4
160°	236.9	239.1	241.2	241.7	245.0	249.5	251.7	255.4	262.6	268.1	268.5
162.5°	240.9	242.5	244.0	244.5	246.8	250.1	251.7	254.8	260.9	265.5	265.9
165°	245.2	246.7	248.1	248.5	249.6	251.0	251.7	253.9	258.3	261.6	262.0
167.5°	249.1	249.8	250.5	250.7	251.6	252.8	253.4	254.9	257.8	259.9	260.1
170°	251.7	252.4	253.1	253.2	253.3	253.4	253.4	254.9	257.8	259.9	259.9
172.5°	253.1	253.2	253.4	253.4	253.4	253.4	253.4	254.5	256.8	258.5	258.4
175°	255.0	255.0	255.0	255.0	254.4	253.8	253.4	254.1	255.6	256.7	256.7
177.5°	255.0	255.0	255.0	255.0	254.5	254.0	253.8	254.4	255.5	256.3	256.2
180°	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0



TEST NUMBER: P936343

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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	531.3	531.3
2.5°	567.1	563.7
5°	729.4	732.8
7.5°	982.3	980.6
10°	1221.5	1236.9
12.5°	1395.7	1399.1
15°	1501.6	1508.5
17.5°	1542.6	1544.3
20°	1544.3	1540.9
22.5°	1525.6	1522.1
25°	1503.4	1501.6
27.5°	1482.9	1484.6
30°	1474.3	1479.4
32.5°	1474.3	1482.9
35°	1477.7	1486.3
37.5°	1476.0	1486.3
40°	1469.2	1481.1
42.5°	1450.4	1458.9
45°	1421.4	1431.6
47.5°	1383.8	1390.6
50°	1335.9	1342.8
52.5°	1276.2	1277.9
55°	1204.4	1211.2
57.5°	1127.5	1129.2
60°	1042.1	1047.2
62.5°	951.5	951.5
65°	855.8	859.3
67.5°	756.8	765.3
70°	656.0	657.7
72.5°	556.9	556.9
75°	454.4	456.1
77.5°	357.0	357.0
80°	264.8	266.5
82.5°	182.8	186.2
85°	114.5	114.5
87.5°	53.0	47.8
90°	6.5	6.5
92.5°	26.1	20.8
95°	90.8	75.1
97.5°	217.5	187.7
100°	313.4	277.8
102.5°	407.7	377.3
105°	527.9	511.5
107.5°	606.7	610.6
110°	636.7	653.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	639.4	665.5
115°	622.5	658.7
117.5°	586.5	626.8
120°	557.5	596.6
122.5°	529.3	567.8
125°	489.1	524.6
127.5°	452.9	482.8
130°	431.5	459.2
132.5°	412.2	437.0
135°	385.6	407.0
137.5°	364.4	381.9
140°	349.8	366.2
142.5°	337.7	351.7
145°	319.6	330.2
147.5°	305.6	314.5
150°	296.9	304.1
152.5°	289.4	294.8
155°	280.8	284.3
157.5°	274.0	276.5
160°	269.9	271.4
162.5°	267.3	268.6
165°	263.4	264.9
167.5°	260.7	261.3
170°	259.9	259.9
172.5°	257.9	257.3
175°	256.7	256.7
177.5°	255.6	255.0
180°	255.0	255.0



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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	5.88	7.03	6.62	7.80	8.73	19.06	20.21	19.80	20.98	21.91
	3H	6.61	7.65	7.36	8.43	9.38	20.92	21.96	21.67	22.74	23.70
	4H	6.92	7.90	7.69	8.69	9.66	21.58	22.56	22.35	23.35	24.32
	6H	7.18	8.09	7.97	8.89	9.87	22.02	22.93	22.81	23.73	24.71
	8H	7.26	8.13	8.06	8.95	9.93	22.15	23.02	22.95	23.84	24.82
	12H	7.29	8.12	8.09	8.93	9.94	22.23	23.06	23.03	23.87	24.88
4H	2H	13.13	14.11	13.90	14.90	15.87	19.37	20.35	20.14	21.14	22.11
	3H	14.72	15.55	15.51	16.37	17.36	21.44	22.27	22.23	23.09	24.07
	4H	14.83	15.58	15.63	16.41	17.42	22.22	22.97	23.02	23.79	24.81
	6H	14.86	15.51	15.68	16.36	17.38	22.78	23.43	23.60	24.28	25.29
	8H	14.84	15.46	15.67	16.30	17.33	22.95	23.56	23.77	24.40	25.43
	12H	14.82	15.37	15.66	16.23	17.27	23.05	23.61	23.90	24.47	25.51
8H	4H	16.30	16.91	17.13	17.76	18.79	22.30	22.92	23.13	23.76	24.79
	6H	16.56	17.07	17.41	17.95	18.98	22.95	23.46	23.80	24.34	25.37
	8H	16.58	17.03	17.44	17.91	18.96	23.17	23.63	24.04	24.50	25.55
	12H	16.56	16.96	17.43	17.83	18.94	23.33	23.73	24.20	24.60	25.70
12H	4H	16.46	17.01	17.30	17.87	18.91	22.27	22.83	23.12	23.69	24.73
	6H	16.82	17.27	17.68	18.15	19.20	22.93	23.39	23.80	24.27	25.32
	8H	16.90	17.30	17.77	18.17	19.28	23.18	23.58	24.05	24.45	25.55