

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: P936598

Luminaire Tested: SQ4-FB-025U-125D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936598
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-B35-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

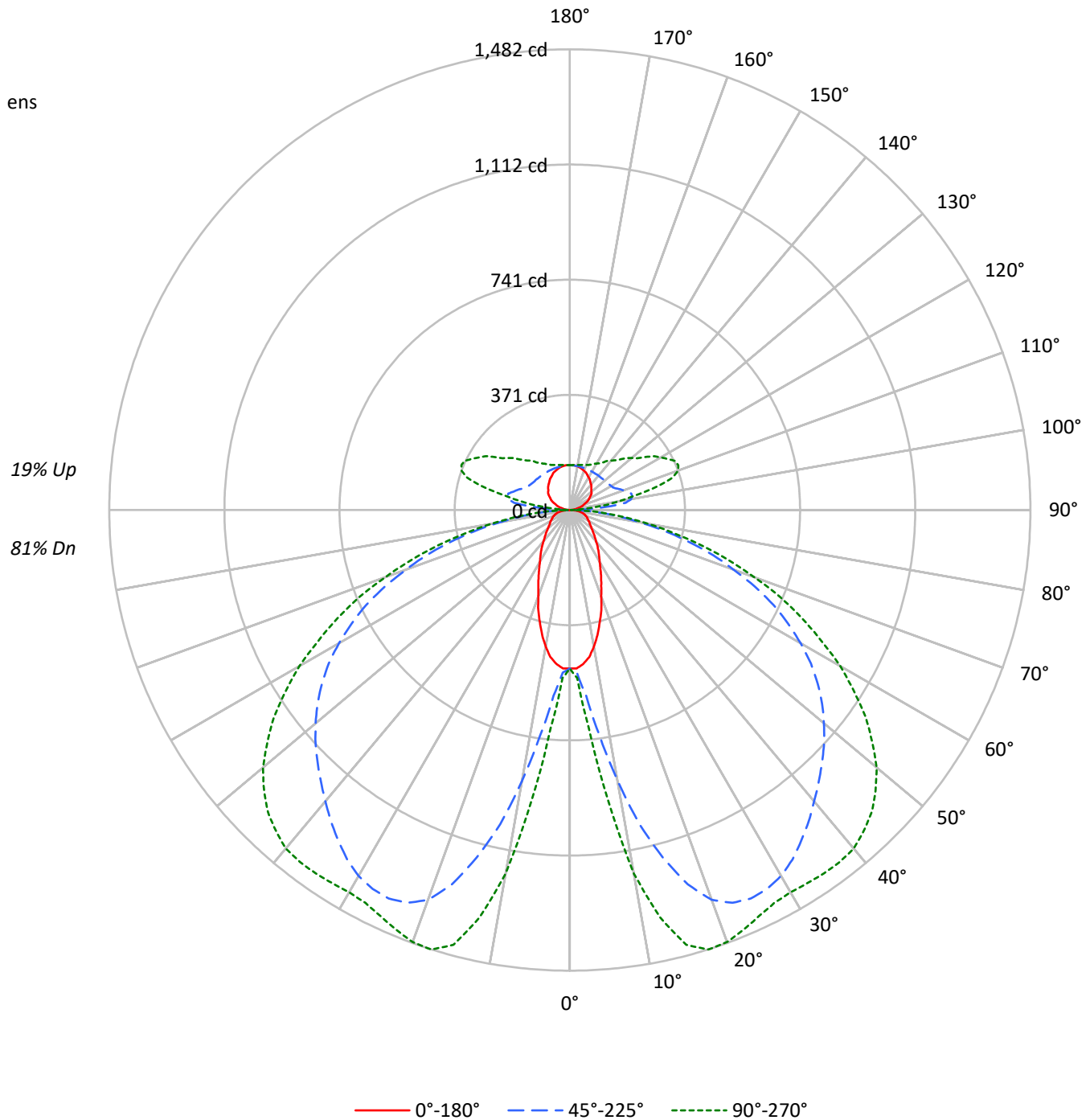
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4882.8 lumens
Efficiency: N/A
Efficacy: 98.4 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 (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	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°	4731	4731	4731
5°	4617	5465	6360
10°	4183	7960	10544
15°	3552	10392	12732
20°	2889	12034	12976
25°	2407	12584	12713
30°	2027	12653	12689
35°	1789	12434	13016
40°	1557	12151	13355
45°	1407	11940	13407
50°	1288	11749	13186
55°	1229	11471	12601
60°	1254	10954	11678
65°	1298	10172	10410
70°	1373	8854	8795
75°	1505	7200	6863
80°	1610	4976	4625
85°	1358	2626	2368

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13407 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	1.4
10°-20°	292.3	6.0
20°-30°	511.4	10.5
30°-40°	658.3	13.5
40°-50°	735.3	15.1
50°-60°	704.2	14.4
60°-70°	558.1	11.4
70°-80°	328.2	6.7
80°-90°	91.7	1.9
90°-100°	70.5	1.4
100°-110°	185.3	3.8
110°-120°	192.2	3.9
120°-130°	154.1	3.2
130°-140°	120.9	2.5
140°-150°	92.8	1.9
150°-160°	66.8	1.4
160°-170°	40.9	0.8
170°-180°	13.8	0.3
0°-30°	869.7	17.8
0°-40°	1527.9	31.3
0°-60°	2967.4	60.8
0°-90°	3945.4	80.8
90°-120°	448.0	9.2
90°-150°	815.9	16.7
90°-180°	937.0	19.2
0°-180°	4882.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	510	510	510	510	510	
5°	497	533	600	679	703	46
15°	372	687	1158	1404	1448	104
25°	238	779	1379	1440	1441	110
35°	161	744	1299	1372	1426	100
45°	110	594	1148	1315	1374	85
55°	79	377	974	1131	1162	72
65°	62	200	723	813	825	62
75°	46	123	397	436	438	48
85°	16	38	98	108	110	17
90°	1	3	7	4	4	2
95°	9	36	121	63	43	10
105°	33	51	205	311	290	35
115°	59	72	164	327	374	59
125°	82	92	149	252	298	73
135°	98	108	145	204	231	76
145°	114	121	143	174	187	71
155°	129	132	143	157	161	59
165°	139	141	143	148	150	39
175°	145	145	144	146	146	14
180°	145	145	145	145	145	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9	509.9
2.5°	509.9	509.9	513.2	514.8	518.1	519.8	523.1	526.4	536.1	537.8	541.1
5°	496.8	503.4	524.7	532.9	555.8	587.0	600.1	621.4	665.7	678.8	687.0
7.5°	477.1	491.9	544.4	557.5	614.8	696.8	731.3	777.2	847.7	882.1	910.0
10°	445.9	477.1	570.5	601.7	695.2	819.8	883.7	947.7	1054.3	1101.8	1119.9
12.5°	411.5	462.4	598.5	641.1	775.6	957.6	1034.6	1105.1	1226.5	1290.4	1300.2
15°	372.2	441.1	624.7	687.0	860.8	1072.3	1157.6	1244.5	1357.7	1403.5	1415.0
17.5°	337.8	424.7	649.3	714.9	926.4	1175.6	1262.5	1334.7	1426.5	1457.7	1465.8
20°	295.2	398.5	665.7	751.0	995.3	1251.1	1334.7	1390.4	1452.7	1472.4	1475.7
22.5°	264.0	370.5	675.5	764.1	1041.2	1296.9	1367.5	1411.7	1454.4	1461.0	1462.5
25°	237.8	339.4	673.9	778.8	1080.5	1324.8	1379.0	1411.7	1436.3	1439.6	1439.6
27.5°	213.2	304.9	667.4	782.1	1110.0	1331.4	1374.0	1397.0	1408.4	1415.0	1415.0
30°	191.9	272.2	651.0	775.6	1123.2	1324.8	1359.2	1370.7	1382.2	1392.1	1397.0
32.5°	175.5	241.0	626.4	762.4	1124.8	1308.4	1333.1	1339.5	1356.0	1379.0	1387.1
35°	160.7	209.9	598.5	744.4	1114.9	1282.2	1298.6	1305.1	1337.9	1372.4	1383.8
37.5°	145.9	186.9	562.4	713.3	1100.2	1251.1	1262.5	1274.0	1324.8	1365.8	1379.0
40°	131.2	167.2	519.8	678.8	1077.2	1213.3	1223.2	1241.2	1308.4	1356.0	1369.1
42.5°	119.7	150.9	473.8	642.7	1047.7	1170.7	1185.5	1211.7	1288.8	1339.5	1354.4
45°	109.9	134.5	424.7	593.5	1010.0	1126.5	1147.8	1183.8	1265.8	1315.0	1328.1
47.5°	100.0	123.0	373.8	542.7	969.0	1082.2	1110.0	1151.1	1234.6	1282.2	1293.7
50°	91.9	111.5	323.0	488.6	924.7	1034.6	1067.5	1110.0	1195.3	1239.5	1254.4
52.5°	85.3	101.6	275.5	434.5	873.9	985.4	1023.2	1067.5	1147.8	1190.4	1200.2
55°	78.7	93.4	234.5	377.1	821.4	933.0	973.9	1016.6	1095.3	1131.3	1137.9
57.5°	75.4	86.9	200.0	323.0	765.7	873.9	919.9	959.2	1033.0	1060.9	1067.5
60°	70.5	82.0	173.8	277.1	705.0	818.2	857.6	896.9	959.2	982.2	987.0
62.5°	65.6	78.7	154.2	232.9	642.7	752.6	792.0	828.0	880.5	896.9	903.4
65°	62.3	75.4	139.3	200.0	578.8	683.7	723.1	754.3	796.9	813.3	816.6
67.5°	59.0	72.2	127.9	172.2	514.8	614.8	644.4	673.9	706.7	723.1	724.7
70°	54.1	68.9	118.0	152.5	449.2	536.1	560.8	591.9	618.1	626.4	631.3
72.5°	50.9	64.0	111.5	137.7	382.1	460.8	483.7	501.7	524.7	532.9	532.9
75°	45.9	57.4	104.9	123.0	313.2	377.1	396.8	414.8	432.9	436.1	431.2
77.5°	41.0	50.9	90.2	103.3	244.3	298.5	314.8	324.6	339.4	342.6	344.3
80°	34.4	44.3	70.5	80.3	177.0	219.7	231.2	239.3	252.5	252.5	255.8
82.5°	26.3	34.4	50.9	57.4	119.7	150.9	160.7	165.6	173.8	173.8	173.8
85°	16.4	21.3	32.8	37.7	72.2	91.9	98.4	100.0	106.6	108.2	108.2
87.5°	8.2	11.4	21.3	23.0	37.7	47.6	47.6	50.9	50.9	49.2	47.6
90°	1.0	1.7	2.5	2.7	4.3	6.3	7.4	6.6	4.9	3.7	3.7
92.5°	3.9	10.5	17.1	18.7	26.4	36.5	41.6	36.4	26.2	18.4	17.6
95°	9.3	21.4	33.5	36.5	64.8	102.5	121.4	108.3	82.2	62.6	60.4
97.5°	16.1	26.7	37.4	40.1	87.3	150.2	181.7	173.5	156.9	144.5	140.2
100°	21.3	31.0	40.7	43.1	95.4	165.3	200.2	200.8	202.0	202.9	197.9
102.5°	25.8	34.8	43.9	46.1	99.2	170.1	205.4	216.0	237.0	252.8	248.5
105°	33.4	41.1	48.6	50.6	102.0	170.5	204.8	228.5	275.7	311.0	308.7
107.5°	41.2	48.3	55.4	57.2	102.5	163.0	193.2	226.2	292.0	341.4	342.0
110°	46.4	52.8	59.2	60.9	101.7	156.3	183.5	220.4	293.9	349.1	351.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	51.6	57.7	63.8	65.3	101.7	150.4	174.7	212.4	287.7	344.2	347.9
115°	59.3	64.9	70.5	72.0	102.7	143.7	164.1	200.4	273.0	327.3	332.5
117.5°	67.0	72.1	77.2	78.5	104.7	139.4	156.9	189.6	255.0	304.2	309.9
120°	71.4	76.3	81.1	82.3	106.1	138.0	153.9	183.8	243.7	288.6	294.1
122.5°	75.8	80.6	85.5	86.7	108.3	137.2	151.6	178.6	232.5	272.9	278.3
125°	82.5	86.9	91.4	92.5	111.4	136.6	149.2	172.1	217.9	252.2	257.3
127.5°	87.9	92.4	96.9	98.1	114.4	136.2	147.2	166.9	206.2	235.7	239.9
130°	90.8	95.6	100.5	101.7	116.7	136.5	146.4	164.0	198.9	225.2	229.1
132.5°	93.9	98.7	103.6	104.7	118.4	136.6	145.7	161.4	192.7	216.3	219.8
135°	98.4	102.7	107.2	108.2	120.3	136.5	144.6	157.7	183.9	203.6	206.6
137.5°	102.9	107.3	111.6	112.7	123.3	137.3	144.4	155.4	177.6	194.3	196.8
140°	106.7	110.7	114.7	115.7	125.0	137.5	143.7	153.3	172.5	186.8	189.1
142.5°	109.6	113.3	117.0	117.9	126.6	138.0	143.7	152.1	169.0	181.6	183.6
145°	114.1	117.2	120.5	121.3	128.5	138.0	142.7	149.6	163.4	173.7	175.3
147.5°	118.5	121.6	124.8	125.6	131.3	139.0	142.7	148.2	159.0	167.2	168.4
150°	121.4	124.2	127.1	127.8	132.8	139.4	142.7	147.3	156.5	163.4	164.3
152.5°	124.4	126.6	128.7	129.3	133.7	139.7	142.7	146.6	154.5	160.4	161.1
155°	128.9	130.4	132.1	132.5	135.9	140.4	142.7	145.8	152.1	156.8	157.3
157.5°	132.2	133.7	135.3	135.7	138.0	141.2	142.7	145.2	150.0	153.6	154.0
160°	134.4	135.6	136.8	137.1	139.0	141.5	142.7	144.8	148.9	152.0	152.2
162.5°	136.6	137.5	138.5	138.7	140.0	141.9	142.7	144.5	148.0	150.6	150.8
165°	139.1	139.8	140.7	140.9	141.5	142.3	142.7	144.0	146.5	148.4	148.5
167.5°	141.3	141.7	142.1	142.2	142.6	143.3	143.7	144.5	146.1	147.4	147.5
170°	142.7	143.1	143.5	143.6	143.6	143.7	143.7	144.5	146.1	147.4	147.4
172.5°	143.5	143.6	143.7	143.7	143.7	143.7	143.7	144.4	145.6	146.6	146.5
175°	144.6	144.6	144.6	144.6	144.3	143.9	143.7	144.1	145.0	145.5	145.5
177.5°	144.6	144.6	144.6	144.6	144.4	144.1	143.9	144.2	144.9	145.4	145.3
180°	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6	144.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	509.9	509.9
2.5°	544.4	541.1
5°	700.1	703.4
7.5°	942.8	941.2
10°	1172.3	1187.1
12.5°	1339.5	1342.8
15°	1441.3	1447.8
17.5°	1480.6	1482.3
20°	1482.3	1479.0
22.5°	1464.2	1461.0
25°	1442.8	1441.3
27.5°	1423.2	1424.8
30°	1415.0	1420.0
32.5°	1415.0	1423.2
35°	1418.3	1426.5
37.5°	1416.7	1426.5
40°	1410.1	1421.5
42.5°	1392.1	1400.2
45°	1364.2	1374.0
47.5°	1328.1	1334.7
50°	1282.2	1288.8
52.5°	1224.8	1226.5
55°	1155.9	1162.5
57.5°	1082.2	1083.8
60°	1000.2	1005.1
62.5°	913.3	913.3
65°	821.4	824.7
67.5°	726.4	734.6
70°	629.7	631.3
72.5°	534.5	534.5
75°	436.1	437.8
77.5°	342.6	342.6
80°	254.2	255.8
82.5°	175.5	178.7
85°	109.9	109.9
87.5°	50.9	45.9
90°	3.7	3.7
92.5°	14.7	11.8
95°	51.6	42.6
97.5°	123.4	106.5
100°	177.8	157.7
102.5°	231.2	214.0
105°	299.5	290.2
107.5°	344.2	346.4
110°	361.1	370.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	362.7	377.5
115°	353.1	373.6
117.5°	332.7	355.5
120°	316.3	338.4
122.5°	300.2	322.1
125°	277.4	297.6
127.5°	256.9	273.8
130°	244.8	260.5
132.5°	233.8	247.9
135°	218.8	230.9
137.5°	206.7	216.7
140°	198.4	207.7
142.5°	191.6	199.5
145°	181.3	187.3
147.5°	173.4	178.4
150°	168.4	172.5
152.5°	164.1	167.2
155°	159.3	161.3
157.5°	155.4	156.9
160°	153.1	153.9
162.5°	151.6	152.3
165°	149.4	150.2
167.5°	147.8	148.2
170°	147.4	147.4
172.5°	146.2	145.9
175°	145.5	145.5
177.5°	145.0	144.6
180°	144.6	144.6



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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	8.81	10.12	9.45	10.77	11.52	21.95	23.26	22.59	23.91	24.66
	3H	9.55	10.73	10.20	11.39	12.17	23.81	24.99	24.45	25.65	26.43
	4H	9.87	10.98	10.54	11.66	12.45	24.46	25.58	25.13	26.25	27.04
	6H	10.15	11.18	10.82	11.86	12.67	24.91	25.94	25.58	26.62	27.43
	8H	10.23	11.21	10.91	11.92	12.73	25.03	26.02	25.72	26.72	27.53
	12H	10.26	11.20	10.95	11.90	12.74	25.11	26.05	25.80	26.75	27.59
4H	2H	16.06	17.17	16.72	17.84	18.64	22.28	23.39	22.95	24.07	24.86
	3H	17.67	18.60	18.35	19.31	20.13	24.35	25.29	25.03	26.00	26.81
	4H	17.78	18.63	18.48	19.35	20.19	25.13	25.98	25.82	26.69	27.54
	6H	17.82	18.56	18.53	19.30	20.15	25.68	26.42	26.40	27.16	28.01
	8H	17.81	18.50	18.53	19.24	20.10	25.85	26.54	26.57	27.28	28.14
	12H	17.79	18.41	18.53	19.17	20.04	25.95	26.58	26.70	27.34	28.21
8H	4H	19.25	19.95	19.97	20.68	21.55	25.23	25.92	25.95	26.66	27.52
	6H	19.52	20.09	20.27	20.87	21.74	25.86	26.44	26.61	27.22	28.09
	8H	19.54	20.06	20.30	20.84	21.72	26.08	26.60	26.85	27.38	28.26
	12H	19.53	19.99	20.30	20.76	21.70	26.24	26.69	27.01	27.46	28.41
12H	4H	19.41	20.04	20.16	20.80	21.67	25.20	25.83	25.94	26.59	27.46
	6H	19.78	20.29	20.54	21.07	21.96	25.85	26.37	26.62	27.15	28.03
	8H	19.87	20.32	20.63	21.09	22.04	26.10	26.55	26.86	27.32	28.26