

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: P937359

Luminaire Tested: SQ4-FB-075U-125D-93050-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937359
REPORT IS A COMBINATION OF REPORTS P933504 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-125D-93050-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

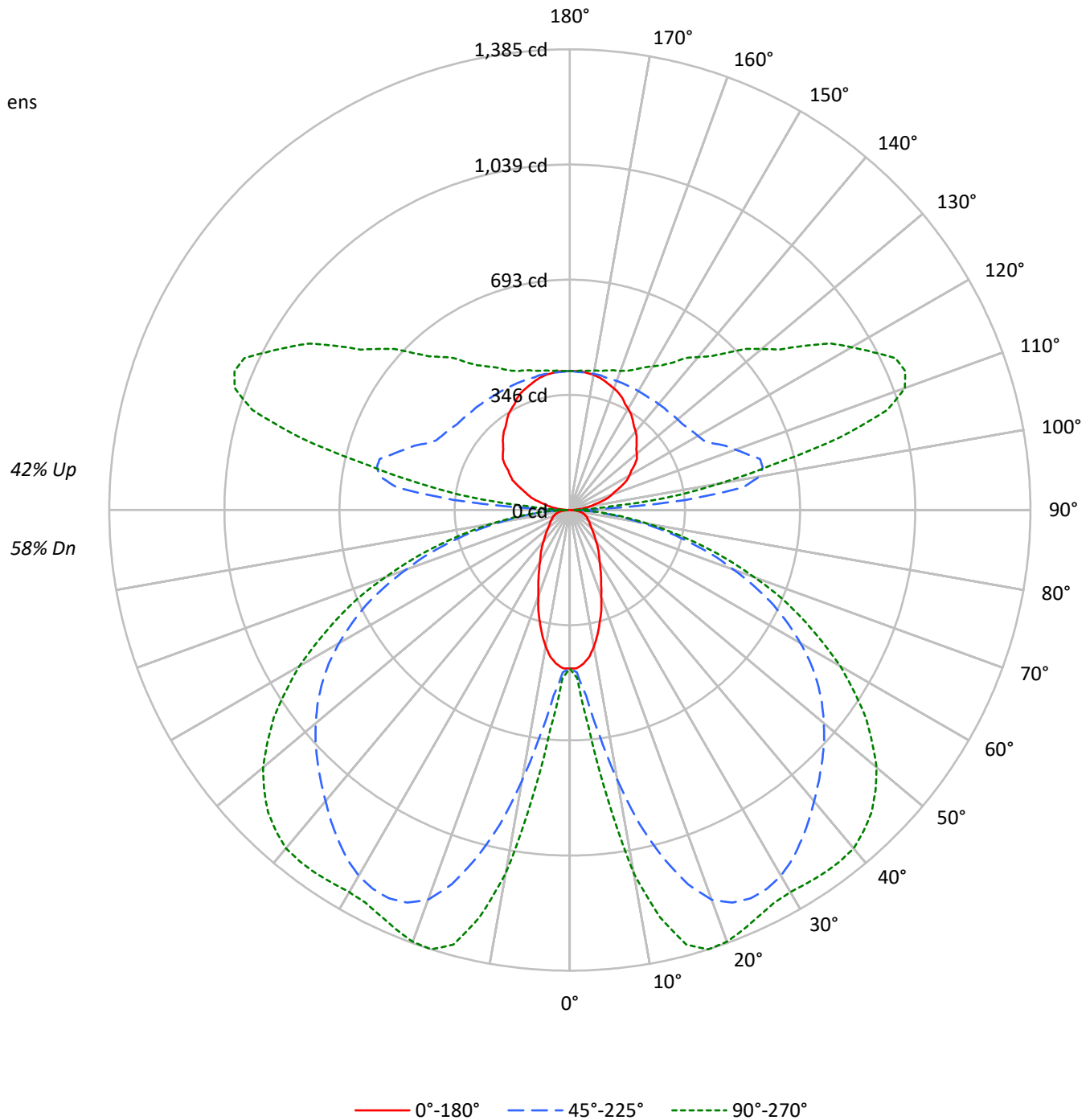
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6396.8 lumens
Efficiency: N/A
Efficacy: 103.2 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: General Diffuse

Input Watts (W): 62
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
RCR																				
0	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58		
1	99	94	90	86	92	88	84	81	76	73	71	65	63	61	55	53	52	47		
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43	38		
3	81	71	63	57	75	66	59	54	57	52	47	49	45	41	41	38	36	32		
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	36	33	30	27		
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	33	29	26	23		
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19		
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19	17		
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17	15		
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15	13		
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	16	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4420	4420	4420
5°	4314	5105	5941
10°	3908	7435	9850
15°	3318	9707	11893
20°	2698	11242	12121
25°	2248	11755	11875
30°	1893	11820	11852
35°	1671	11614	12159
40°	1455	11350	12475
45°	1314	11154	12524
50°	1203	10974	12318
55°	1148	10716	11771
60°	1172	10232	10909
65°	1213	9501	9724
70°	1282	8270	8216
75°	1407	6726	6412
80°	1502	4648	4321
85°	1267	2453	2211

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12524 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	1.0
10°-20°	273.1	4.3
20°-30°	477.7	7.5
30°-40°	614.9	9.6
40°-50°	686.8	10.7
50°-60°	657.8	10.3
60°-70°	521.3	8.1
70°-80°	306.5	4.8
80°-90°	86.8	1.4
90°-100°	203.8	3.2
100°-110°	535.8	8.4
110°-120°	555.6	8.7
120°-130°	445.6	7.0
130°-140°	349.7	5.5
140°-150°	268.4	4.2
150°-160°	193.3	3.0
160°-170°	118.3	1.8
170°-180°	40.0	0.6
0°-30°	812.4	12.7
0°-40°	1427.3	22.3
0°-60°	2771.9	43.3
0°-90°	3686.5	57.6
90°-120°	1295.2	20.2
90°-150°	2358.8	36.9
90°-180°	2710.0	42.4
0°-180°	6396.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	476	476	476	476	476	
5°	464	498	561	634	657	43
15°	348	642	1081	1311	1352	97
25°	222	728	1288	1345	1346	102
35°	150	695	1213	1282	1332	94
45°	103	554	1072	1228	1284	79
55°	74	352	910	1057	1086	67
65°	58	187	675	760	770	58
75°	43	115	371	407	409	45
85°	15	35	92	101	103	16
90°	3	8	21	11	11	3
95°	27	106	351	181	123	30
105°	96	146	592	899	839	102
115°	171	208	474	946	1080	169
125°	238	267	432	729	860	212
135°	284	313	418	589	668	220
145°	330	351	413	502	542	207
155°	373	383	413	453	466	171
165°	402	407	413	429	434	113
175°	418	418	416	421	421	40
180°	418	418	418	418	418	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3	476.3
2.5°	476.3	476.3	479.4	480.9	484.0	485.5	488.6	491.7	500.8	502.4	505.4
5°	464.1	470.2	490.1	497.7	519.2	548.3	560.6	580.5	621.8	634.1	641.8
7.5°	445.7	459.5	508.5	520.7	574.3	650.9	683.1	726.0	791.8	824.0	850.0
10°	416.6	445.7	533.0	562.1	649.4	765.8	825.5	885.2	984.8	1029.3	1046.1
12.5°	384.4	431.9	559.0	598.9	724.5	894.5	966.4	1032.3	1145.7	1205.4	1214.5
15°	347.7	412.0	583.6	641.8	804.1	1001.7	1081.3	1162.5	1268.2	1311.0	1321.8
17.5°	315.5	396.7	606.5	667.8	865.3	1098.1	1179.3	1246.8	1332.5	1361.6	1369.2
20°	275.7	372.2	621.8	701.5	929.7	1168.7	1246.8	1298.8	1357.0	1375.4	1378.5
22.5°	246.6	346.1	631.0	713.7	972.6	1211.5	1277.4	1318.7	1358.6	1364.7	1366.2
25°	222.1	317.1	629.5	727.5	1009.3	1237.5	1288.1	1318.7	1341.7	1344.8	1344.8
27.5°	199.1	284.9	623.4	730.6	1036.9	1243.7	1283.5	1305.0	1315.7	1321.8	1321.8
30°	179.2	254.3	608.1	724.5	1049.2	1237.5	1269.7	1280.4	1291.1	1300.4	1305.0
32.5°	163.9	225.1	585.1	712.2	1050.7	1222.2	1245.2	1251.3	1266.7	1288.1	1295.7
35°	150.1	196.1	559.0	695.3	1041.5	1197.7	1213.0	1219.2	1249.8	1282.0	1292.7
37.5°	136.3	174.6	525.4	666.3	1027.7	1168.7	1179.3	1190.1	1237.5	1275.8	1288.1
40°	122.6	156.2	485.5	634.1	1006.3	1133.4	1142.6	1159.4	1222.2	1266.7	1278.9
42.5°	111.8	140.9	442.6	600.4	978.7	1093.6	1107.4	1131.9	1203.9	1251.3	1265.1
45°	102.6	125.6	396.7	554.4	943.4	1052.2	1072.2	1105.8	1182.4	1228.4	1240.6
47.5°	93.4	114.9	349.2	507.0	905.2	1010.9	1036.9	1075.2	1153.3	1197.7	1208.5
50°	85.8	104.2	301.7	456.4	863.8	966.4	997.1	1036.9	1116.5	1157.9	1171.7
52.5°	79.7	95.0	257.3	405.9	816.4	920.5	955.8	997.1	1072.2	1112.0	1121.1
55°	73.5	87.3	219.0	352.3	767.3	871.5	909.8	949.6	1023.1	1056.8	1062.9
57.5°	70.4	81.2	186.8	301.7	715.3	816.4	859.3	896.0	964.9	991.0	997.1
60°	65.9	76.6	162.4	258.9	658.6	764.3	801.1	837.8	896.0	917.5	922.0
62.5°	61.3	73.5	144.0	217.5	600.4	703.0	739.8	773.5	822.5	837.8	843.9
65°	58.2	70.4	130.2	186.8	540.7	638.7	675.4	704.6	744.4	759.7	762.8
67.5°	55.1	67.4	119.5	160.8	480.9	574.3	601.9	629.5	660.1	675.4	677.0
70°	50.5	64.4	110.2	142.5	419.6	500.8	523.8	552.9	577.4	585.1	589.7
72.5°	47.5	59.7	104.2	128.6	356.9	430.4	451.9	468.7	490.1	497.7	497.7
75°	42.9	53.6	98.0	114.9	292.5	352.3	370.7	387.5	404.3	407.4	402.8
77.5°	38.3	47.5	84.3	96.5	228.2	278.8	294.1	303.2	317.1	320.1	321.6
80°	32.1	41.4	65.9	75.0	165.4	205.2	216.0	223.6	235.9	235.9	239.0
82.5°	24.5	32.1	47.5	53.6	111.8	140.9	150.1	154.7	162.4	162.4	162.4
85°	15.3	19.9	30.6	35.2	67.4	85.8	91.9	93.4	99.6	101.1	101.1
87.5°	7.7	10.7	19.9	21.5	35.2	44.4	44.4	47.5	47.5	46.0	44.4
90°	2.8	5.1	7.3	7.9	12.4	18.4	21.4	19.0	14.2	10.7	10.7
92.5°	11.2	30.3	49.3	54.1	76.1	105.5	120.1	105.3	75.6	53.3	51.2
95°	27.0	61.9	96.9	105.5	187.4	296.4	351.0	313.2	237.6	180.9	174.5
97.5°	46.6	77.4	108.2	115.9	252.4	434.3	525.3	501.4	453.7	417.8	405.6
100°	61.7	89.6	117.6	124.6	276.0	477.9	578.9	580.6	584.1	586.7	572.2
102.5°	74.7	100.7	126.7	133.2	286.8	491.7	594.1	624.5	685.3	730.9	718.4
105°	96.5	118.6	140.7	146.2	294.9	493.2	592.3	660.6	797.0	899.3	892.6
107.5°	118.9	139.6	160.1	165.3	296.4	471.2	558.7	653.8	844.1	986.8	988.4
110°	134.1	152.7	171.3	176.0	294.2	451.8	530.6	637.0	849.7	1009.3	1016.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.0	166.7	184.4	188.8	294.3	434.8	505.1	614.0	831.7	995.0	1005.7
115°	171.4	187.7	204.1	208.2	297.0	415.3	474.5	579.4	789.1	946.4	961.3
117.5°	193.6	208.5	223.3	227.0	302.5	403.1	453.4	548.1	737.3	879.4	895.8
120°	206.6	220.5	234.4	238.0	306.9	399.0	445.0	531.5	704.5	834.2	850.2
122.5°	219.1	233.3	247.3	250.8	313.4	396.8	438.6	516.4	672.2	789.0	804.9
125°	238.5	251.4	264.2	267.4	322.1	395.1	431.6	497.7	630.1	729.3	743.9
127.5°	254.3	267.2	280.1	283.4	330.8	394.1	425.7	482.5	596.1	681.3	693.6
130°	262.7	276.6	290.6	294.1	337.2	394.7	423.4	474.0	575.1	651.0	662.3
132.5°	271.4	285.3	299.2	302.8	342.3	395.1	421.4	466.7	557.3	625.2	635.3
135°	284.2	296.9	309.7	312.8	347.9	394.7	418.1	456.0	531.9	588.7	597.5
137.5°	297.4	310.0	322.6	325.8	356.4	397.2	417.6	449.6	513.7	561.7	568.9
140°	308.4	320.0	331.6	334.5	361.5	397.5	415.6	443.3	498.6	540.1	546.8
142.5°	316.8	327.5	338.2	340.9	365.8	399.0	415.6	439.9	488.5	525.0	530.8
145°	329.7	339.1	348.4	350.7	371.4	399.0	412.8	432.7	472.4	502.3	506.6
147.5°	342.6	351.7	360.8	363.1	379.6	401.7	412.8	428.4	459.7	483.2	486.8
150°	351.0	359.3	367.5	369.6	384.0	403.2	412.8	426.0	452.4	472.2	475.1
152.5°	359.7	366.0	372.2	373.7	386.8	404.1	412.8	424.1	446.6	463.5	465.7
155°	372.7	377.3	381.8	383.0	392.9	406.1	412.8	421.7	439.6	453.1	454.6
157.5°	382.2	386.7	391.2	392.3	399.1	408.2	412.8	419.7	433.7	444.2	445.2
160°	388.6	392.1	395.6	396.5	401.9	409.1	412.8	418.7	430.8	439.7	440.3
162.5°	395.1	397.7	400.4	401.0	404.9	410.1	412.8	417.8	427.9	435.5	436.0
165°	402.1	404.4	406.8	407.4	409.2	411.6	412.8	416.4	423.6	429.0	429.7
167.5°	408.5	409.6	410.8	411.0	412.6	414.6	415.6	417.9	422.7	426.2	426.5
170°	412.8	413.8	415.0	415.3	415.4	415.5	415.6	417.9	422.7	426.2	426.2
172.5°	415.0	415.3	415.5	415.6	415.6	415.6	415.6	417.5	421.2	424.0	423.8
175°	418.1	418.1	418.1	418.1	417.3	416.1	415.6	416.7	419.1	420.9	420.9
177.5°	418.1	418.1	418.1	418.1	417.5	416.6	416.1	417.0	418.9	420.4	420.1
180°	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1	418.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	476.3	476.3
2.5°	508.5	505.4
5°	654.0	657.1
7.5°	880.7	879.2
10°	1095.1	1108.9
12.5°	1251.3	1254.4
15°	1346.3	1352.4
17.5°	1383.1	1384.6
20°	1384.6	1381.5
22.5°	1367.7	1364.7
25°	1347.8	1346.3
27.5°	1329.4	1330.9
30°	1321.8	1326.4
32.5°	1321.8	1329.4
35°	1324.9	1332.5
37.5°	1323.3	1332.5
40°	1317.2	1327.9
42.5°	1300.4	1308.0
45°	1274.3	1283.5
47.5°	1240.6	1246.8
50°	1197.7	1203.9
52.5°	1144.1	1145.7
55°	1079.8	1085.9
57.5°	1010.9	1012.4
60°	934.3	938.9
62.5°	853.1	853.1
65°	767.3	770.4
67.5°	678.5	686.2
70°	588.2	589.7
72.5°	499.3	499.3
75°	407.4	409.0
77.5°	320.1	320.1
80°	237.4	239.0
82.5°	163.9	166.9
85°	102.6	102.6
87.5°	47.5	42.9
90°	10.7	10.7
92.5°	42.7	34.2
95°	148.9	123.2
97.5°	356.7	307.8
100°	514.0	455.7
102.5°	668.6	618.7
105°	865.8	839.0
107.5°	995.0	1001.5
110°	1044.2	1072.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1048.6	1091.5
115°	1020.8	1080.3
117.5°	961.8	1027.8
120°	914.3	978.4
122.5°	868.0	931.3
125°	802.1	860.3
127.5°	742.7	791.8
130°	707.7	753.1
132.5°	676.0	716.6
135°	632.5	667.6
137.5°	597.6	626.3
140°	573.7	600.5
142.5°	553.8	576.9
145°	524.1	541.6
147.5°	501.3	515.8
150°	486.9	498.7
152.5°	474.6	483.4
155°	460.5	466.3
157.5°	449.3	453.4
160°	442.6	445.0
162.5°	438.3	440.5
165°	432.0	434.4
167.5°	427.5	428.5
170°	426.2	426.2
172.5°	422.9	422.0
175°	420.9	420.9
177.5°	419.1	418.1
180°	418.1	418.1



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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	6.82	7.80	7.70	8.71	9.86	19.96	20.94	20.84	21.85	23.00
	3H	7.54	8.42	8.43	9.33	10.51	21.79	22.68	22.68	23.59	24.77
	4H	7.84	8.67	8.75	9.60	10.79	22.43	23.27	23.34	24.19	25.38
	6H	8.10	8.87	9.02	9.80	11.00	22.86	23.63	23.78	24.56	25.76
	8H	8.17	8.90	9.10	9.85	11.05	22.98	23.71	23.90	24.66	25.86
	12H	8.19	8.89	9.12	9.83	11.06	23.04	23.74	23.97	24.68	25.91
4H	2H	14.03	14.86	14.94	15.78	16.97	20.25	21.09	21.16	22.01	23.20
	3H	15.61	16.31	16.53	17.26	18.46	22.29	22.99	23.22	23.94	25.15
	4H	15.71	16.35	16.64	17.29	18.52	23.05	23.69	23.99	24.64	25.87
	6H	15.73	16.28	16.67	17.25	18.48	23.59	24.14	24.54	25.11	26.34
	8H	15.71	16.22	16.66	17.19	18.43	23.75	24.26	24.70	25.23	26.47
	12H	15.67	16.14	16.64	17.12	18.37	23.84	24.31	24.81	25.29	26.54
8H	4H	17.15	17.67	18.10	18.64	19.88	23.13	23.64	24.08	24.61	25.85
	6H	17.40	17.83	18.38	18.84	20.08	23.75	24.18	24.72	25.18	26.43
	8H	17.42	17.80	18.41	18.80	20.06	23.96	24.34	24.95	25.34	26.60
	12H	17.39	17.73	18.39	18.72	20.03	24.10	24.44	25.09	25.43	26.73
12H	4H	17.30	17.77	18.27	18.75	20.00	23.08	23.55	24.06	24.53	25.78
	6H	17.66	18.04	18.64	19.03	20.29	23.73	24.11	24.72	25.11	26.37
	8H	17.73	18.07	18.72	19.06	20.36	23.96	24.30	24.95	25.29	26.59