

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: P937283

Luminaire Tested: SQ4-FB-075U-100D-B2750-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

**Test Information**

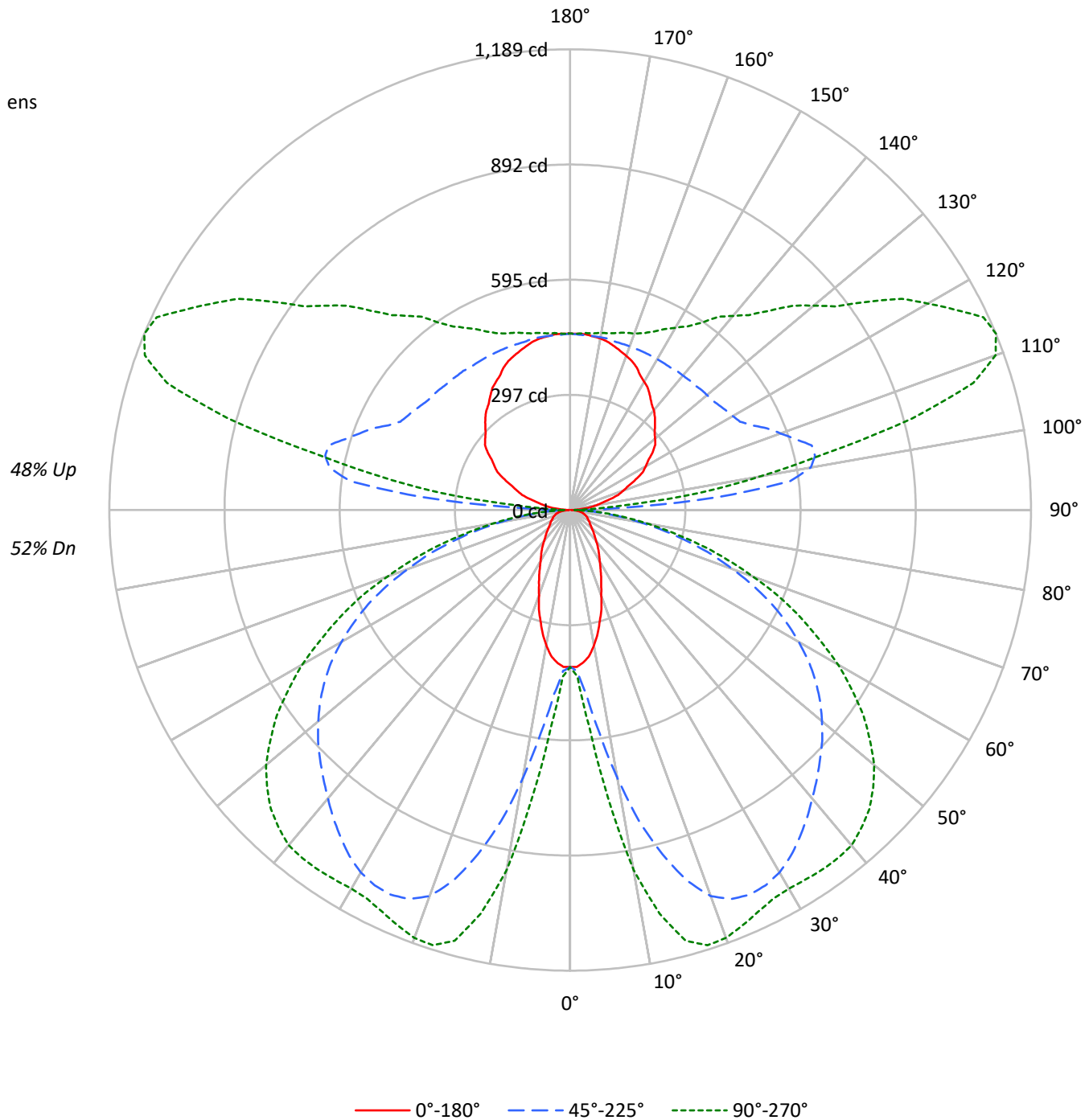
Test Method: LM-79-2019  
Report Number: P937283  
REPORT IS A COMBINATION OF REPORTS P933503 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-075U-100D-B2750-1D-UNV-STD-W-4-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6088.6 lumens  
Efficiency: N/A  
Efficacy: 118.9 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): 51.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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





TEST NUMBER: P937283

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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°	3759	3759	3759
5°	3669	4342	5054
10°	3325	6325	8378
15°	2822	8258	10117
20°	2295	9562	10310
25°	1912	9998	10101
30°	1610	10055	10082
35°	1422	9879	10343
40°	1236	9654	10612
45°	1118	9487	10654
50°	1023	9335	10478
55°	976	9116	10013
60°	996	8704	9280
65°	1032	8082	8271
70°	1092	7035	6988
75°	1197	5721	5454
80°	1278	3953	3674
85°	1076	2087	1881

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 10654 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.4	0.9
10°-20°	232.3	3.8
20°-30°	406.3	6.7
30°-40°	523.0	8.6
40°-50°	584.2	9.6
50°-60°	559.6	9.2
60°-70°	443.5	7.3
70°-80°	260.8	4.3
80°-90°	74.2	1.2
90°-100°	222.0	3.6
100°-110°	583.6	9.6
110°-120°	605.2	9.9
120°-130°	485.4	8.0
130°-140°	380.9	6.3
140°-150°	292.3	4.8
150°-160°	210.5	3.5
160°-170°	128.8	2.1
170°-180°	43.5	0.7
0°-30°	691.0	11.3
0°-40°	1214.1	19.9
0°-60°	2357.8	38.7
0°-90°	3136.2	51.5
90°-120°	1410.8	23.2
90°-150°	2569.5	42.2
90°-180°	2952.0	48.5
0°-180°	6088.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	405	405	405	405	405	
5°	395	423	477	539	559	36
15°	296	546	920	1115	1150	82
25°	189	619	1096	1144	1145	87
35°	128	592	1032	1090	1134	80
45°	87	472	912	1045	1092	68
55°	62	300	774	899	924	57
65°	50	159	574	646	655	49
75°	36	98	315	347	348	38
85°	13	30	78	86	87	14
90°	3	9	23	12	12	3
95°	29	115	382	197	134	33
105°	105	159	645	980	914	111
115°	187	227	517	1031	1177	184
125°	260	291	470	794	937	231
135°	310	341	455	641	727	240
145°	359	382	450	547	590	225
155°	406	417	450	494	508	186
165°	438	444	450	467	473	124
175°	455	455	453	458	458	43
180°	455	455	455	455	455	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	405.1	405.1	405.1	405.1	405.1	405.1	405.1	405.1	405.1	405.1	405.1
2.5°	405.1	405.1	407.8	409.1	411.7	413.0	415.6	418.2	426.1	427.3	429.9
5°	394.8	400.0	416.9	423.4	441.6	466.4	476.8	493.8	529.0	539.3	545.8
7.5°	379.1	390.9	432.6	443.0	488.6	553.7	581.0	617.5	673.5	700.9	723.0
10°	354.4	379.1	453.4	478.1	552.4	651.5	702.2	753.0	837.7	875.5	889.9
12.5°	327.1	367.4	475.5	509.4	616.2	760.9	822.1	878.1	974.6	1025.3	1033.1
15°	295.7	350.4	496.4	545.8	684.0	852.1	919.8	988.9	1078.8	1115.3	1124.3
17.5°	268.4	337.4	515.9	568.0	736.1	934.1	1003.2	1060.5	1133.5	1158.3	1164.8
20°	234.5	316.6	529.0	596.7	790.9	994.1	1060.5	1104.8	1154.3	1170.0	1172.6
22.5°	209.7	294.4	536.8	607.1	827.3	1030.6	1086.6	1121.8	1155.6	1160.8	1162.1
25°	188.9	269.7	535.5	618.8	858.6	1052.7	1095.6	1121.8	1141.3	1143.9	1143.9
27.5°	169.4	242.4	530.3	621.5	882.0	1057.9	1091.8	1110.0	1119.1	1124.3	1124.3
30°	152.4	216.2	517.3	616.2	892.4	1052.7	1080.1	1089.1	1098.3	1106.1	1110.0
32.5°	139.4	191.5	497.7	605.8	893.7	1039.6	1059.2	1064.4	1077.4	1095.6	1102.2
35°	127.7	166.7	475.5	591.5	885.9	1018.8	1031.8	1037.1	1063.1	1090.5	1099.6
37.5°	116.0	148.5	446.9	566.8	874.2	994.1	1003.2	1012.3	1052.7	1085.3	1095.6
40°	104.2	132.9	413.0	539.3	855.9	964.1	971.9	986.3	1039.6	1077.4	1087.9
42.5°	95.1	119.9	376.6	510.7	832.5	930.2	941.9	962.8	1024.1	1064.4	1076.1
45°	87.3	106.8	337.4	471.6	802.5	895.1	912.0	940.6	1005.8	1044.9	1055.3
47.5°	79.5	97.7	297.1	431.3	770.0	859.9	882.0	914.6	981.1	1018.8	1027.9
50°	73.0	88.6	256.7	388.3	734.8	822.1	848.2	882.0	949.8	984.9	996.6
52.5°	67.7	80.8	218.9	345.3	694.4	783.0	813.0	848.2	912.0	945.9	953.7
55°	62.5	74.2	186.4	299.6	652.7	741.3	773.9	807.7	870.3	898.9	904.2
57.5°	59.9	69.0	158.9	256.7	608.5	694.4	730.9	762.2	820.7	842.9	848.2
60°	56.0	65.2	138.1	220.2	560.2	650.1	681.4	712.7	762.2	780.4	784.3
62.5°	52.2	62.5	122.5	185.0	510.7	598.0	629.3	658.0	699.7	712.7	717.9
65°	49.5	59.9	110.7	158.9	459.9	543.3	574.5	599.3	633.2	646.2	648.8
67.5°	46.9	57.3	101.7	136.8	409.1	488.6	512.0	535.5	561.5	574.5	575.8
70°	43.0	54.7	93.8	121.2	356.9	426.1	445.6	470.3	491.1	497.7	501.6
72.5°	40.4	50.8	88.6	109.4	303.6	366.1	384.3	398.6	416.9	423.4	423.4
75°	36.5	45.6	83.4	97.7	248.9	299.6	315.3	329.6	343.9	346.6	342.6
77.5°	32.5	40.4	71.7	82.0	194.1	237.1	250.1	257.9	269.7	272.3	273.6
80°	27.3	35.2	56.0	63.8	140.7	174.6	183.7	190.2	200.7	200.7	203.2
82.5°	20.8	27.3	40.4	45.6	95.1	119.9	127.7	131.6	138.1	138.1	138.1
85°	13.0	17.0	26.0	30.0	57.3	73.0	78.2	79.5	84.7	86.0	86.0
87.5°	6.5	9.1	17.0	18.2	30.0	37.8	37.8	40.4	40.4	39.0	37.8
90°	3.1	5.5	8.0	8.6	13.5	20.0	23.3	20.7	15.5	11.6	11.6
92.5°	12.2	33.0	53.7	59.0	82.9	114.9	130.8	114.7	82.3	58.1	55.8
95°	29.4	67.4	105.5	115.0	204.1	322.9	382.4	341.2	258.8	197.1	190.1
97.5°	50.8	84.3	117.8	126.2	274.9	473.1	572.2	546.1	494.2	455.1	441.8
100°	67.2	97.6	128.1	135.7	300.6	520.6	630.5	632.4	636.3	639.1	623.3
102.5°	81.3	109.7	138.0	145.1	312.5	535.6	647.1	680.2	746.5	796.2	782.6
105°	105.1	129.2	153.2	159.2	321.2	537.3	645.2	719.6	868.2	979.6	972.3
107.5°	129.6	152.0	174.4	180.0	322.9	513.3	608.6	712.2	919.4	1074.9	1076.7
110°	146.1	166.3	186.6	191.7	320.4	492.1	578.0	693.8	925.6	1099.4	1107.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	162.3	181.6	200.8	205.7	320.5	473.7	550.2	668.8	905.9	1083.8	1095.5
115°	186.7	204.5	222.3	226.8	323.5	452.4	516.9	631.1	859.6	1031.0	1047.1
117.5°	210.9	227.1	243.2	247.3	329.5	439.1	493.9	597.0	803.2	957.9	975.8
120°	225.0	240.2	255.4	259.2	334.4	434.6	484.7	579.0	767.4	908.7	926.1
122.5°	238.7	254.1	269.4	273.2	341.4	432.3	477.7	562.5	732.2	859.5	876.8
125°	259.8	273.8	287.8	291.3	350.9	430.4	470.1	542.2	686.4	794.4	810.3
127.5°	277.0	291.1	305.2	308.7	360.4	429.3	463.7	525.6	649.4	742.2	755.6
130°	286.1	301.3	316.5	320.4	367.3	429.9	461.3	516.4	626.5	709.1	721.5
132.5°	295.6	310.8	326.0	329.8	372.9	430.4	459.1	508.4	607.1	681.0	692.1
135°	309.6	323.4	337.3	340.8	379.0	430.0	455.4	496.7	579.4	641.3	650.9
137.5°	324.0	337.7	351.4	354.9	388.2	432.7	454.8	489.7	559.6	611.9	619.7
140°	335.9	348.6	361.2	364.3	393.8	433.1	452.7	482.8	543.1	588.3	595.6
142.5°	345.1	356.7	368.4	371.3	398.4	434.6	452.7	479.2	532.1	571.9	578.2
145°	359.1	369.4	379.5	382.1	404.6	434.6	449.6	471.3	514.6	547.1	551.9
147.5°	373.2	383.1	393.0	395.5	413.5	437.6	449.6	466.7	500.8	526.3	530.3
150°	382.4	391.3	400.3	402.6	418.3	439.2	449.6	464.0	492.8	514.4	517.6
152.5°	391.8	398.6	405.4	407.1	421.3	440.2	449.6	461.9	486.5	504.9	507.3
155°	405.9	411.0	415.9	417.2	428.0	442.4	449.6	459.4	478.9	493.6	495.2
157.5°	416.3	421.2	426.1	427.3	434.7	444.7	449.6	457.2	472.4	483.8	484.9
160°	423.3	427.1	430.9	431.9	437.8	445.7	449.6	456.1	469.2	479.0	479.6
162.5°	430.4	433.2	436.1	436.8	441.0	446.8	449.6	455.1	466.1	474.4	475.0
165°	438.0	440.5	443.1	443.8	445.8	448.3	449.6	453.6	461.4	467.4	468.1
167.5°	445.0	446.2	447.4	447.7	449.4	451.6	452.7	455.2	460.5	464.3	464.6
170°	449.6	450.8	452.1	452.4	452.5	452.6	452.7	455.2	460.5	464.3	464.3
172.5°	452.1	452.4	452.6	452.7	452.7	452.7	452.7	454.7	458.8	461.8	461.6
175°	455.4	455.4	455.4	455.4	454.5	453.3	452.7	454.0	456.5	458.5	458.5
177.5°	455.4	455.4	455.4	455.4	454.7	453.8	453.3	454.3	456.3	457.9	457.6
180°	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4	455.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	405.1	405.1
2.5°	432.6	429.9
5°	556.3	559.0
7.5°	749.2	747.8
10°	931.6	943.2
12.5°	1064.4	1067.0
15°	1145.2	1150.4
17.5°	1176.5	1177.8
20°	1177.8	1175.1
22.5°	1163.5	1160.8
25°	1146.5	1145.2
27.5°	1130.8	1132.1
30°	1124.3	1128.3
32.5°	1124.3	1130.8
35°	1127.0	1133.5
37.5°	1125.6	1133.5
40°	1120.5	1129.6
42.5°	1106.1	1112.6
45°	1084.0	1091.8
47.5°	1055.3	1060.5
50°	1018.8	1024.1
52.5°	973.2	974.6
55°	918.5	923.7
57.5°	859.9	861.2
60°	794.7	798.7
62.5°	725.7	725.7
65°	652.7	655.3
67.5°	577.2	583.7
70°	500.3	501.6
72.5°	424.8	424.8
75°	346.6	347.9
77.5°	272.3	272.3
80°	201.9	203.2
82.5°	139.4	142.0
85°	87.3	87.3
87.5°	40.4	36.5
90°	11.6	11.6
92.5°	46.5	37.3
95°	162.2	134.2
97.5°	388.6	335.3
100°	559.9	496.4
102.5°	728.3	673.9
105°	943.1	913.9
107.5°	1083.8	1090.9
110°	1137.4	1167.9





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**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	1142.3	1189.0
115°	1112.0	1176.8
117.5°	1047.7	1119.6
120°	996.0	1065.8
122.5°	945.6	1014.5
125°	873.7	937.1
127.5°	809.0	862.6
130°	771.0	820.4
132.5°	736.3	780.6
135°	689.0	727.2
137.5°	651.0	682.2
140°	624.9	654.1
142.5°	603.2	628.4
145°	570.9	589.9
147.5°	546.0	561.8
150°	530.4	543.2
152.5°	517.0	526.6
155°	501.6	508.0
157.5°	489.5	493.9
160°	482.2	484.7
162.5°	477.4	479.9
165°	470.6	473.2
167.5°	465.7	466.8
170°	464.3	464.3
172.5°	460.7	459.7
175°	458.5	458.5
177.5°	456.5	455.4
180°	455.4	455.4



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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	5.73	6.64	6.66	7.60	8.85	18.87	19.78	19.80	20.74	21.99
	3H	6.44	7.26	7.38	8.23	9.50	20.70	21.52	21.64	22.49	23.76
	4H	6.74	7.52	7.70	8.49	9.77	21.33	22.11	22.30	23.09	24.36
	6H	6.99	7.71	7.97	8.69	9.98	21.76	22.47	22.73	23.45	24.74
	8H	7.06	7.75	8.04	8.74	10.03	21.87	22.56	22.85	23.55	24.84
	12H	7.08	7.73	8.07	8.72	10.04	21.93	22.59	22.92	23.58	24.89
4H	2H	12.93	13.71	13.89	14.68	15.96	19.15	19.93	20.12	20.90	22.18
	3H	14.50	15.15	15.48	16.16	17.45	21.19	21.84	22.16	22.84	24.13
	4H	14.60	15.20	15.59	16.19	17.51	21.95	22.54	22.93	23.54	24.85
	6H	14.61	15.13	15.61	16.15	17.46	22.48	22.99	23.47	24.01	25.32
	8H	14.59	15.07	15.59	16.09	17.41	22.63	23.11	23.63	24.13	25.46
	12H	14.55	14.99	15.57	16.02	17.35	22.72	23.16	23.74	24.18	25.52
8H	4H	16.04	16.52	17.04	17.53	18.86	22.01	22.49	23.01	23.51	24.83
	6H	16.28	16.68	17.31	17.74	19.06	22.63	23.03	23.66	24.08	25.41
	8H	16.30	16.66	17.34	17.69	19.04	22.84	23.20	23.88	24.24	25.58
	12H	16.27	16.58	17.31	17.62	19.01	22.98	23.29	24.02	24.33	25.72
12H	4H	16.18	16.62	17.20	17.64	18.98	21.97	22.40	22.99	23.43	24.77
	6H	16.54	16.89	17.57	17.93	19.28	22.61	22.97	23.65	24.01	25.35
	8H	16.61	16.92	17.65	17.96	19.34	22.84	23.15	23.88	24.19	25.57