

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: P936557

Luminaire Tested: SQ4-FB-025U-125D-93050-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936557
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-93050-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

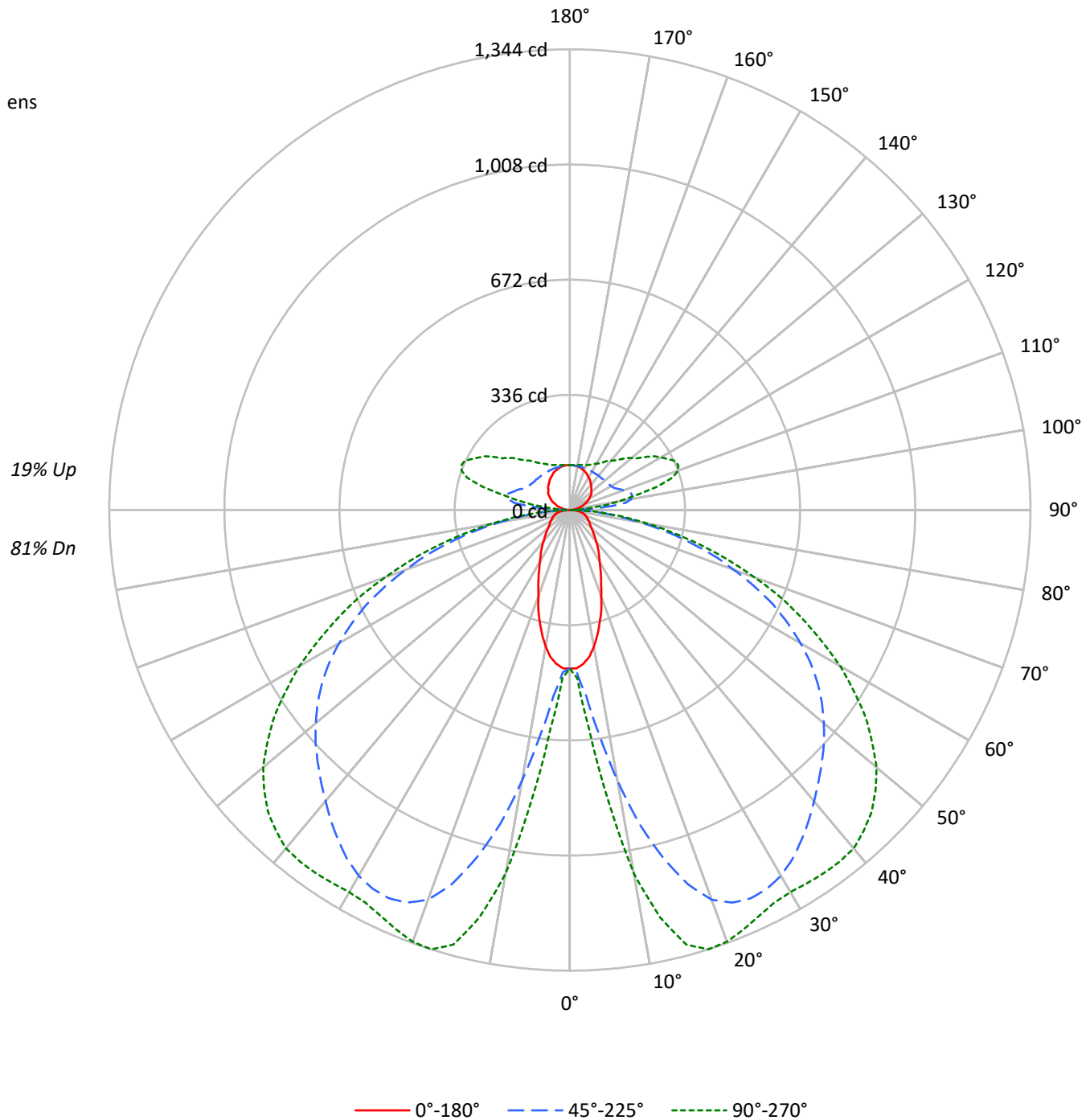
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4425.7 lumens
Efficiency: N/A
Efficacy: 89.2 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: 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





TEST NUMBER: P936557

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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	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	84	81	
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	70	70	66	
2	94	85	78	72	89	82	75	70	75	70	66	69	65	61	63	60	57	57	54	
3	85	74	66	59	81	71	64	58	65	59	54	60	55	51	55	51	48	48	45	
4	77	65	56	49	74	63	54	48	58	51	45	53	47	43	49	44	40	40	37	
5	71	58	49	42	67	55	47	41	51	44	39	47	41	36	43	38	34	34	32	
6	65	51	42	36	62	49	41	35	46	39	33	42	36	31	39	34	30	30	27	
7	60	46	37	31	57	45	36	30	41	34	29	38	32	27	35	30	26	26	24	
8	55	42	33	27	53	40	32	27	37	30	25	35	29	24	32	27	23	23	21	
9	52	38	30	24	49	37	29	24	34	27	23	32	26	22	29	24	20	20	18	
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	16	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4289	4289	4289
5°	4185	4953	5765
10°	3792	7215	9557
15°	3220	9419	11540
20°	2618	10908	11762
25°	2181	11406	11523
30°	1837	11469	11501
35°	1621	11269	11797
40°	1411	11013	12105
45°	1275	10822	12153
50°	1168	10648	11951
55°	1114	10398	11422
60°	1137	9928	10586
65°	1177	9220	9435
70°	1244	8025	7972
75°	1364	6526	6221
80°	1460	4511	4193
85°	1226	2378	2146

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12153 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.4
10°-20°	265.0	6.0
20°-30°	463.5	10.5
30°-40°	596.6	13.5
40°-50°	666.4	15.1
50°-60°	638.3	14.4
60°-70°	505.8	11.4
70°-80°	297.5	6.7
80°-90°	83.1	1.9
90°-100°	63.9	1.4
100°-110°	168.0	3.8
110°-120°	174.2	3.9
120°-130°	139.7	3.2
130°-140°	109.6	2.5
140°-150°	84.1	1.9
150°-160°	60.6	1.4
160°-170°	37.1	0.8
170°-180°	12.5	0.3
0°-30°	788.3	17.8
0°-40°	1384.9	31.3
0°-60°	2689.6	60.8
0°-90°	3576.1	80.8
90°-120°	406.0	9.2
90°-150°	739.5	16.7
90°-180°	850.0	19.2
0°-180°	4425.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	462	462	462	462	462	
5°	450	483	544	615	638	42
15°	337	623	1049	1272	1312	94
25°	216	706	1250	1305	1306	99
35°	146	675	1177	1244	1293	91
45°	100	538	1040	1192	1245	77
55°	71	342	883	1025	1054	65
65°	56	181	655	737	748	56
75°	42	112	360	395	397	44
85°	15	34	89	98	100	16
90°	1	2	7	3	3	2
95°	8	33	110	57	39	9
105°	30	46	186	282	263	32
115°	54	65	149	297	339	53
125°	75	84	135	229	270	66
135°	89	98	131	184	209	69
145°	103	110	129	158	170	65
155°	117	120	129	142	146	54
165°	126	128	129	134	136	36
175°	131	131	130	132	132	12
180°	131	131	131	131	131	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2	462.2
2.5°	462.2	462.2	465.1	466.6	469.6	471.1	474.1	477.1	486.0	487.5	490.4
5°	450.3	456.3	475.6	483.0	503.8	532.1	543.9	563.3	603.4	615.2	622.7
7.5°	432.5	445.8	493.4	505.3	557.3	631.6	662.9	704.5	768.3	799.5	824.8
10°	404.2	432.5	517.1	545.4	630.1	743.0	801.0	859.0	955.6	998.7	1015.1
12.5°	373.0	419.1	542.4	581.1	703.0	867.9	937.8	1001.7	1111.7	1169.6	1178.5
15°	337.4	399.8	566.2	622.7	780.2	971.9	1049.2	1128.0	1230.6	1272.1	1282.6
17.5°	306.2	385.0	588.5	648.0	839.7	1065.6	1144.3	1209.8	1292.9	1321.2	1328.6
20°	267.5	361.2	603.4	680.7	902.1	1134.0	1209.8	1260.3	1316.7	1334.6	1337.6
22.5°	239.2	335.9	612.3	692.5	943.7	1175.5	1239.5	1279.6	1318.2	1324.2	1325.6
25°	215.5	307.7	610.9	705.9	979.4	1200.8	1249.9	1279.6	1301.9	1304.9	1304.9
27.5°	193.2	276.4	604.9	708.9	1006.1	1206.8	1245.4	1266.2	1276.6	1282.6	1282.6
30°	173.9	246.7	590.0	703.0	1018.0	1200.8	1232.0	1242.4	1252.8	1261.8	1266.2
32.5°	159.1	218.4	567.7	691.0	1019.5	1186.0	1208.3	1214.2	1229.1	1249.9	1257.3
35°	145.6	190.2	542.4	674.7	1010.6	1162.2	1177.0	1183.0	1212.7	1243.9	1254.3
37.5°	132.3	169.4	509.8	646.5	997.2	1134.0	1144.3	1154.8	1200.8	1238.0	1249.9
40°	118.9	151.6	471.1	615.2	976.4	1099.7	1108.7	1125.0	1186.0	1229.1	1241.0
42.5°	108.5	136.8	429.5	582.6	949.6	1061.2	1074.5	1098.3	1168.1	1214.2	1227.6
45°	99.6	121.9	385.0	538.0	915.5	1021.0	1040.3	1073.0	1147.3	1191.9	1203.8
47.5°	90.6	111.5	338.8	491.9	878.3	980.9	1006.1	1043.3	1119.0	1162.2	1172.6
50°	83.3	101.1	292.7	442.8	838.2	937.8	967.5	1006.1	1083.4	1123.5	1137.0
52.5°	77.3	92.1	249.7	393.8	792.1	893.1	927.4	967.5	1040.3	1079.0	1087.9
55°	71.3	84.7	212.5	341.8	744.5	845.6	882.8	921.4	992.7	1025.4	1031.4
57.5°	68.3	78.8	181.3	292.7	694.0	792.1	833.8	869.4	936.3	961.6	967.5
60°	63.9	74.3	157.6	251.2	639.1	741.6	777.3	813.0	869.4	890.2	894.6
62.5°	59.5	71.3	139.7	211.1	582.6	682.2	717.8	750.5	798.1	813.0	818.8
65°	56.5	68.3	126.3	181.3	524.6	619.7	655.4	683.7	722.3	737.2	740.1
67.5°	53.5	65.4	115.9	156.1	466.6	557.3	584.1	610.9	640.5	655.4	656.9
70°	49.0	62.4	107.0	138.2	407.2	486.0	508.3	536.5	560.3	567.7	572.2
72.5°	46.1	58.0	101.1	124.8	346.3	417.6	438.4	454.8	475.6	483.0	483.0
75°	41.6	52.0	95.1	111.5	283.9	341.8	359.7	376.0	392.3	395.3	390.8
77.5°	37.2	46.1	81.8	93.6	221.4	270.5	285.4	294.2	307.7	310.6	312.1
80°	31.2	40.1	63.9	72.8	160.5	199.1	209.6	216.9	228.9	228.9	231.9
82.5°	23.8	31.2	46.1	52.0	108.5	136.8	145.6	150.1	157.6	157.6	157.6
85°	14.8	19.3	29.7	34.2	65.4	83.3	89.1	90.6	96.6	98.1	98.1
87.5°	7.5	10.4	19.3	20.8	34.2	43.1	43.1	46.1	46.1	44.6	43.1
90°	0.9	1.6	2.3	2.5	3.9	5.7	6.7	6.0	4.5	3.3	3.3
92.5°	3.5	9.5	15.5	17.0	23.9	33.1	37.7	33.0	23.7	16.7	16.0
95°	8.4	19.4	30.4	33.1	58.8	92.9	110.1	98.2	74.5	56.7	54.7
97.5°	14.6	24.2	33.9	36.4	79.1	136.1	164.7	157.2	142.2	131.0	127.1
100°	19.3	28.1	36.9	39.1	86.5	149.8	181.5	182.0	183.1	183.9	179.3
102.5°	23.4	31.5	39.8	41.8	89.9	154.1	186.2	195.8	214.8	229.1	225.2
105°	30.3	37.2	44.1	45.8	92.5	154.6	185.7	207.1	249.9	281.9	279.8
107.5°	37.3	43.7	50.2	51.8	92.9	147.7	175.1	205.0	264.6	309.4	310.0
110°	42.1	47.9	53.7	55.2	92.2	141.7	166.4	199.7	266.4	316.5	318.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	46.7	52.3	57.8	59.2	92.2	136.3	158.4	192.5	260.8	312.0	315.3
115°	53.8	58.8	63.9	65.3	93.1	130.3	148.8	181.6	247.4	296.7	301.3
117.5°	60.7	65.3	70.0	71.1	94.9	126.4	142.2	171.9	231.2	275.7	280.9
120°	64.7	69.1	73.5	74.6	96.2	125.1	139.5	166.6	220.9	261.6	266.6
122.5°	68.7	73.1	77.5	78.6	98.2	124.4	137.5	161.9	210.7	247.3	252.2
125°	74.7	78.8	82.8	83.9	101.0	123.8	135.3	156.0	197.5	228.6	233.2
127.5°	79.7	83.8	87.8	88.9	103.7	123.5	133.4	151.2	186.9	213.6	217.5
130°	82.3	86.7	91.1	92.2	105.7	123.8	132.7	148.6	180.3	204.1	207.6
132.5°	85.1	89.5	93.9	94.9	107.3	123.8	132.1	146.3	174.7	196.0	199.2
135°	89.1	93.1	97.1	98.1	109.1	123.8	131.0	142.9	166.7	184.5	187.3
137.5°	93.3	97.2	101.2	102.1	111.7	124.5	130.9	140.9	161.0	176.1	178.4
140°	96.7	100.3	104.0	104.9	113.3	124.6	130.3	138.9	156.3	169.3	171.4
142.5°	99.3	102.7	106.0	106.9	114.7	125.1	130.3	137.9	153.2	164.6	166.4
145°	103.4	106.3	109.3	110.0	116.5	125.1	129.4	135.6	148.1	157.5	158.9
147.5°	107.4	110.2	113.1	113.8	119.0	125.9	129.4	134.3	144.1	151.5	152.6
150°	110.1	112.6	115.2	115.8	120.3	126.4	129.4	133.5	141.8	148.1	149.0
152.5°	112.8	114.7	116.6	117.2	121.2	126.7	129.4	132.9	140.0	145.4	146.1
155°	116.8	118.2	119.7	120.1	123.1	127.3	129.4	132.2	137.9	142.1	142.5
157.5°	119.8	121.2	122.6	123.0	125.1	128.0	129.4	131.6	136.0	139.2	139.6
160°	121.8	122.9	124.0	124.3	125.9	128.2	129.4	131.2	135.0	137.8	138.0
162.5°	123.8	124.6	125.5	125.7	126.9	128.6	129.4	131.0	134.1	136.5	136.7
165°	126.0	126.7	127.5	127.7	128.2	129.0	129.4	130.5	132.8	134.5	134.6
167.5°	128.1	128.4	128.8	128.8	129.3	129.9	130.3	131.0	132.4	133.6	133.7
170°	129.4	129.7	130.1	130.2	130.2	130.3	130.3	131.0	132.4	133.6	133.6
172.5°	130.1	130.2	130.3	130.3	130.3	130.3	130.3	130.9	132.0	132.9	132.8
175°	131.0	131.0	131.0	131.0	130.8	130.4	130.3	130.6	131.4	131.9	131.9
177.5°	131.0	131.0	131.0	131.0	130.9	130.6	130.4	130.7	131.3	131.7	131.7
180°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0	131.0



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	462.2	462.2
2.5°	493.4	490.4
5°	634.6	637.6
7.5°	854.6	853.1
10°	1062.6	1076.0
12.5°	1214.2	1217.1
15°	1306.4	1312.3
17.5°	1342.0	1343.5
20°	1343.5	1340.6
22.5°	1327.1	1324.2
25°	1307.8	1306.4
27.5°	1290.0	1291.5
30°	1282.6	1287.1
32.5°	1282.6	1290.0
35°	1285.6	1292.9
37.5°	1284.1	1292.9
40°	1278.1	1288.5
42.5°	1261.8	1269.1
45°	1236.5	1245.4
47.5°	1203.8	1209.8
50°	1162.2	1168.1
52.5°	1110.2	1111.7
55°	1047.7	1053.7
57.5°	980.9	982.4
60°	906.6	911.1
62.5°	827.8	827.8
65°	744.5	747.5
67.5°	658.4	665.8
70°	570.7	572.2
72.5°	484.5	484.5
75°	395.3	396.8
77.5°	310.6	310.6
80°	230.4	231.9
82.5°	159.1	162.0
85°	99.6	99.6
87.5°	46.1	41.6
90°	3.3	3.3
92.5°	13.4	10.7
95°	46.7	38.6
97.5°	111.8	96.5
100°	161.2	142.9
102.5°	209.6	193.9
105°	271.5	263.1
107.5°	312.0	314.0
110°	327.3	336.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	328.7	342.2
115°	320.1	338.7
117.5°	301.5	322.2
120°	286.7	306.7
122.5°	272.1	291.9
125°	251.5	269.7
127.5°	232.8	248.2
130°	221.9	236.1
132.5°	211.9	224.7
135°	198.3	209.3
137.5°	187.3	196.4
140°	179.8	188.2
142.5°	173.6	180.8
145°	164.3	169.8
147.5°	157.1	161.7
150°	152.6	156.3
152.5°	148.8	151.6
155°	144.4	146.2
157.5°	140.9	142.2
160°	138.8	139.5
162.5°	137.4	138.1
165°	135.4	136.1
167.5°	133.9	134.3
170°	133.6	133.6
172.5°	132.5	132.3
175°	131.9	131.9
177.5°	131.4	131.0
180°	131.0	131.0



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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	8.47	9.78	9.11	10.43	11.17	21.61	22.91	22.24	23.57	24.31
	3H	9.21	10.39	9.86	11.05	11.83	23.47	24.65	24.11	25.31	26.09
	4H	9.53	10.64	10.19	11.31	12.11	24.12	25.24	24.79	25.91	26.70
	6H	9.80	10.83	10.48	11.52	12.33	24.56	25.59	25.24	26.28	27.09
	8H	9.88	10.87	10.57	11.57	12.39	24.69	25.68	25.38	26.38	27.19
	12H	9.92	10.86	10.61	11.56	12.40	24.77	25.71	25.46	26.41	27.25
4H	2H	15.72	16.83	16.38	17.50	18.30	21.94	23.05	22.61	23.72	24.52
	3H	17.32	18.26	18.00	18.97	19.78	24.01	24.95	24.69	25.65	26.47
	4H	17.44	18.29	18.14	19.00	19.85	24.78	25.64	25.48	26.35	27.19
	6H	17.48	18.22	18.19	18.96	19.81	25.34	26.08	26.05	26.82	27.67
	8H	17.47	18.16	18.19	18.90	19.76	25.50	26.20	26.23	26.94	27.80
	12H	17.44	18.07	18.19	18.83	19.70	25.61	26.24	26.36	27.00	27.87
8H	4H	18.91	19.61	19.63	20.34	21.21	24.88	25.58	25.61	26.31	27.18
	6H	19.17	19.75	19.93	20.53	21.40	25.52	26.10	26.27	26.88	27.75
	8H	19.20	19.72	19.96	20.49	21.38	25.74	26.26	26.50	27.04	27.92
	12H	19.19	19.64	19.96	20.41	21.36	25.90	26.35	26.66	27.12	28.07
12H	4H	19.07	19.70	19.82	20.46	21.33	24.86	25.49	25.60	26.25	27.12
	6H	19.43	19.95	20.20	20.73	21.61	25.51	26.03	26.27	26.81	27.69
	8H	19.53	19.98	20.29	20.75	21.69	25.76	26.21	26.52	26.98	27.92