

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: P936322

Luminaire Tested: SQ4-FB-025U-075D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936322
REPORT IS A COMBINATION OF REPORTS P933438 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

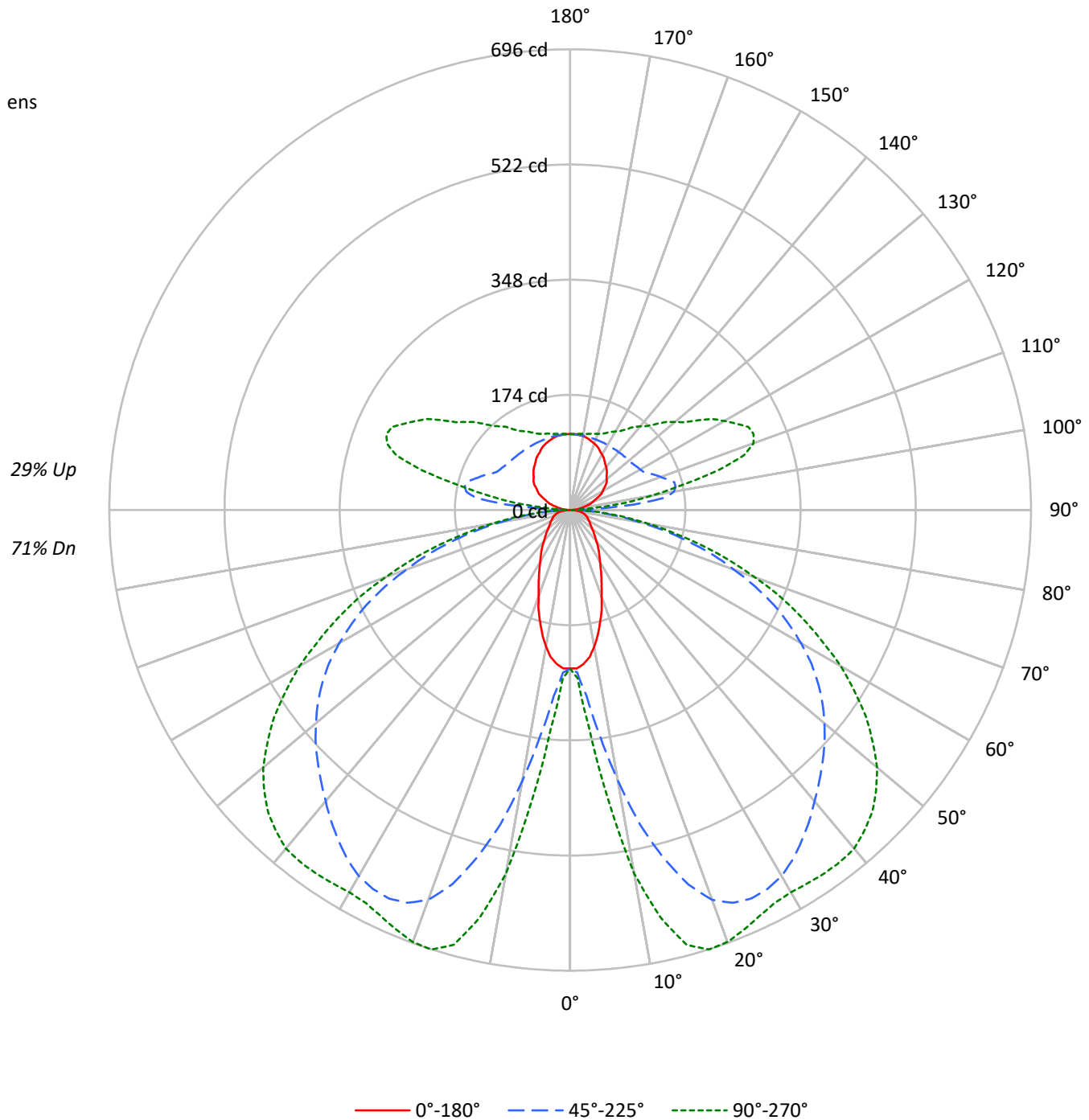
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2597.9 lumens
Efficiency: N/A
Efficacy: 86.6 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): 30
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	112	112	112	112	106	106	106	106	95	95	95	85	85	85	76	76	76	76	76	76	71
1	102	97	93	89	96	92	88	85	82	79	77	74	71	69	66	64	62	66	64	62	58
2	92	84	77	71	87	79	73	68	71	66	62	64	60	57	57	54	51	57	54	51	48
3	83	73	65	58	79	69	62	56	62	56	51	56	51	47	50	46	43	50	46	43	39
4	76	64	55	49	71	61	53	47	55	48	43	49	44	39	44	40	36	44	40	36	33
5	69	57	48	41	65	54	46	40	49	42	37	44	38	34	39	34	31	39	34	31	28
6	64	51	42	35	60	48	40	34	43	37	32	39	33	29	35	30	27	35	30	27	24
7	59	45	37	31	55	43	35	30	39	32	27	35	30	25	32	27	23	32	27	23	21
8	54	41	33	27	51	39	31	26	36	29	24	32	26	22	29	24	21	29	24	21	18
9	51	37	29	24	48	36	28	23	32	26	21	29	24	20	26	22	18	26	22	18	16
10	47	34	26	21	45	33	25	21	30	23	19	27	22	18	24	20	16	24	20	16	14

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2222	2222	2222
5°	2168	2566	2987
10°	1964	3738	4952
15°	1668	4880	5979
20°	1356	5652	6093
25°	1129	5910	5970
30°	952	5942	5958
35°	841	5839	6113
40°	731	5706	6272
45°	661	5607	6297
50°	604	5517	6192
55°	578	5388	5917
60°	589	5144	5484
65°	611	4777	4889
70°	645	4157	4129
75°	708	3380	3223
80°	758	2337	2171
85°	638	1233	1112

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 6297 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	1.2
10°-20°	137.3	5.3
20°-30°	240.1	9.2
30°-40°	309.1	11.9
40°-50°	345.3	13.3
50°-60°	330.7	12.7
60°-70°	262.1	10.1
70°-80°	154.1	5.9
80°-90°	43.3	1.7
90°-100°	56.0	2.2
100°-110°	147.3	5.7
110°-120°	152.7	5.9
120°-130°	122.5	4.7
130°-140°	96.1	3.7
140°-150°	73.8	2.8
150°-160°	53.1	2.0
160°-170°	32.5	1.3
170°-180°	11.0	0.4
0°-30°	408.4	15.7
0°-40°	717.5	27.6
0°-60°	1393.5	53.6
0°-90°	1853.0	71.3
90°-120°	356.0	13.7
90°-150°	648.3	25.0
90°-180°	745.0	28.7
0°-180°	2597.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	240	240	240	240	240	
5°	233	250	282	319	330	22
15°	175	323	544	659	680	49
25°	112	366	648	676	677	51
35°	76	350	610	644	670	47
45°	52	279	539	618	645	40
55°	37	177	457	531	546	34
65°	29	94	340	382	387	29
75°	22	58	186	205	206	23
85°	8	18	46	51	52	8
90°	1	2	6	3	3	1
95°	7	29	96	50	34	8
105°	27	40	163	247	231	28
115°	47	57	130	260	297	47
125°	66	74	119	200	236	58
135°	78	86	115	162	184	60
145°	91	96	113	138	149	57
155°	102	105	113	125	128	47
165°	110	112	113	118	119	31
175°	115	115	114	116	116	11
180°	115	115	115	115	115	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5	239.5
2.5°	239.5	239.5	241.0	241.8	243.3	244.1	245.6	247.2	251.8	252.6	254.1
5°	233.3	236.4	246.4	250.2	261.0	275.7	281.8	291.8	312.6	318.8	322.6
7.5°	224.1	231.0	255.6	261.8	288.8	327.2	343.4	365.0	398.1	414.3	427.4
10°	209.4	224.1	268.0	282.6	326.5	385.0	415.0	445.1	495.1	517.4	525.9
12.5°	193.3	217.1	281.0	301.1	364.2	449.7	485.9	519.0	576.0	606.0	610.6
15°	174.8	207.1	293.4	322.6	404.2	503.6	543.6	584.4	637.6	659.1	664.5
17.5°	158.6	199.4	304.9	335.7	435.0	552.1	592.9	626.8	669.9	684.5	688.4
20°	138.6	187.1	312.6	352.7	467.4	587.5	626.8	653.0	682.2	691.5	693.0
22.5°	124.0	174.0	317.2	358.8	489.0	609.1	642.2	663.0	683.0	686.1	686.8
25°	111.6	159.4	316.5	365.8	507.4	622.2	647.6	663.0	674.5	676.1	676.1
27.5°	100.1	143.2	313.4	367.3	521.3	625.2	645.3	656.0	661.4	664.5	664.5
30°	90.1	127.8	305.7	364.2	527.4	622.2	638.3	643.7	649.1	653.7	656.0
32.5°	82.4	113.2	294.1	358.0	528.2	614.5	626.0	629.1	636.8	647.6	651.4
35°	75.5	98.6	281.0	349.6	523.6	602.1	609.8	612.9	628.3	644.5	649.9
37.5°	68.5	87.8	264.1	335.0	516.7	587.5	592.9	598.3	622.2	641.4	647.6
40°	61.6	78.5	244.1	318.8	505.9	569.8	574.4	582.9	614.5	636.8	643.0
42.5°	56.2	70.8	222.5	301.8	492.0	549.8	556.7	569.0	605.2	629.1	636.0
45°	51.6	63.1	199.4	278.7	474.3	529.0	539.0	555.9	594.4	617.5	623.7
47.5°	47.0	57.8	175.6	254.9	455.1	508.2	521.3	540.5	579.8	602.1	607.5
50°	43.1	52.4	151.7	229.5	434.3	485.9	501.3	521.3	561.3	582.1	589.1
52.5°	40.0	47.7	129.4	204.0	410.4	462.8	480.5	501.3	539.0	559.0	563.6
55°	37.0	43.9	110.1	177.1	385.8	438.1	457.4	477.4	514.4	531.3	534.4
57.5°	35.4	40.8	93.9	151.7	359.6	410.4	432.0	450.4	485.1	498.2	501.3
60°	33.1	38.5	81.6	130.1	331.1	384.2	402.7	421.2	450.4	461.2	463.5
62.5°	30.8	37.0	72.4	109.3	301.8	353.4	371.9	388.8	413.5	421.2	424.3
65°	29.3	35.4	65.4	93.9	271.8	321.1	339.6	354.2	374.2	381.9	383.5
67.5°	27.7	33.9	60.1	80.9	241.8	288.8	302.6	316.5	331.9	339.6	340.3
70°	25.4	32.3	55.4	71.6	211.0	251.8	263.3	278.0	290.3	294.1	296.4
72.5°	23.9	30.0	52.4	64.7	179.4	216.4	227.2	235.6	246.4	250.2	250.2
75°	21.6	27.0	49.3	57.8	147.1	177.1	186.3	194.8	203.3	204.8	202.5
77.5°	19.2	23.9	42.4	48.5	114.7	140.1	147.8	152.5	159.4	160.9	161.7
80°	16.2	20.8	33.1	37.7	83.2	103.2	108.6	112.4	118.6	118.6	120.1
82.5°	12.3	16.2	23.9	27.0	56.2	70.8	75.5	77.8	81.6	81.6	81.6
85°	7.7	10.0	15.4	17.7	33.9	43.1	46.2	47.0	50.1	50.8	50.8
87.5°	3.8	5.4	10.0	10.8	17.7	22.3	22.3	23.9	23.9	23.1	22.3
90°	0.8	1.4	2.0	2.2	3.4	5.0	5.9	5.2	3.9	2.9	2.9
92.5°	3.1	8.3	13.6	14.9	20.9	29.0	33.0	29.0	20.8	14.6	14.0
95°	7.4	17.0	26.6	29.0	51.5	81.5	96.5	86.1	65.3	49.7	48.0
97.5°	12.8	21.3	29.7	31.9	69.4	119.4	144.4	137.8	124.7	114.8	111.4
100°	16.9	24.6	32.3	34.3	75.8	131.4	159.1	159.5	160.5	161.2	157.2
102.5°	20.5	27.6	34.9	36.7	78.8	135.1	163.2	171.6	188.3	200.9	197.4
105°	26.6	32.6	38.7	40.2	81.1	135.5	162.8	181.6	219.1	247.2	245.3
107.5°	32.7	38.3	44.0	45.4	81.5	129.5	153.5	179.7	232.0	271.3	271.7
110°	36.9	42.0	47.0	48.4	80.9	124.2	145.8	175.1	233.5	277.4	279.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	41.0	45.8	50.7	51.9	80.9	119.5	138.8	168.8	228.6	273.5	276.4
115°	47.1	51.6	56.1	57.2	81.6	114.2	130.4	159.2	216.9	260.1	264.2
117.5°	53.2	57.3	61.4	62.4	83.2	110.8	124.7	150.7	202.7	241.7	246.2
120°	56.7	60.6	64.4	65.4	84.3	109.6	122.3	146.1	193.7	229.3	233.7
122.5°	60.2	64.1	67.9	68.9	86.1	109.0	120.5	141.9	184.7	216.8	221.1
125°	65.5	69.1	72.6	73.5	88.6	108.6	118.6	136.8	173.2	200.4	204.4
127.5°	69.8	73.5	77.0	77.9	90.9	108.3	117.0	132.6	163.9	187.3	190.7
130°	72.1	76.0	79.8	80.9	92.7	108.5	116.3	130.3	158.1	178.9	182.0
132.5°	74.6	78.5	82.3	83.2	94.1	108.6	115.8	128.3	153.2	171.9	174.6
135°	78.2	81.6	85.2	86.0	95.6	108.5	114.9	125.3	146.1	161.8	164.2
137.5°	81.8	85.2	88.7	89.6	97.9	109.1	114.7	123.5	141.1	154.4	156.4
140°	84.8	87.9	91.2	91.9	99.3	109.3	114.2	121.8	137.1	148.5	150.3
142.5°	87.1	90.0	92.9	93.7	100.6	109.6	114.2	120.9	134.3	144.3	145.9
145°	90.6	93.2	95.8	96.4	102.1	109.6	113.4	118.9	129.8	138.1	139.3
147.5°	94.2	96.6	99.2	99.8	104.3	110.4	113.4	117.7	126.4	132.8	133.8
150°	96.5	98.7	101.0	101.6	105.5	110.8	113.4	117.0	124.4	129.8	130.6
152.5°	98.9	100.6	102.3	102.7	106.3	111.0	113.4	116.5	122.7	127.4	128.1
155°	102.4	103.6	105.0	105.3	108.0	111.6	113.4	115.9	120.9	124.6	125.0
157.5°	105.0	106.3	107.5	107.8	109.6	112.2	113.4	115.3	119.2	122.0	122.4
160°	106.8	107.7	108.7	109.0	110.4	112.4	113.4	115.0	118.3	120.8	121.0
162.5°	108.6	109.3	110.0	110.2	111.3	112.7	113.4	114.8	117.6	119.7	119.8
165°	110.5	111.1	111.8	112.0	112.4	113.1	113.4	114.4	116.4	117.9	118.0
167.5°	112.3	112.6	112.9	113.0	113.3	113.9	114.2	114.8	116.1	117.1	117.2
170°	113.4	113.7	114.0	114.1	114.1	114.2	114.2	114.8	116.1	117.1	117.1
172.5°	114.0	114.1	114.2	114.2	114.2	114.2	114.2	114.7	115.7	116.5	116.4
175°	114.9	114.9	114.9	114.9	114.7	114.3	114.2	114.5	115.2	115.7	115.7
177.5°	114.9	114.9	114.9	114.9	114.7	114.5	114.3	114.6	115.1	115.5	115.4
180°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	239.5	239.5
2.5°	255.6	254.1
5°	328.8	330.3
7.5°	442.8	442.0
10°	550.6	557.5
12.5°	629.1	630.6
15°	676.8	679.9
17.5°	695.3	696.1
20°	696.1	694.5
22.5°	687.6	686.1
25°	677.6	676.8
27.5°	668.4	669.1
30°	664.5	666.8
32.5°	664.5	668.4
35°	666.1	669.9
37.5°	665.3	669.9
40°	662.2	667.6
42.5°	653.7	657.6
45°	640.6	645.3
47.5°	623.7	626.8
50°	602.1	605.2
52.5°	575.2	576.0
55°	542.8	545.9
57.5°	508.2	509.0
60°	469.7	472.0
62.5°	428.9	428.9
65°	385.8	387.3
67.5°	341.1	345.0
70°	295.7	296.4
72.5°	251.0	251.0
75°	204.8	205.6
77.5°	160.9	160.9
80°	119.4	120.1
82.5°	82.4	83.9
85°	51.6	51.6
87.5°	23.9	21.6
90°	2.9	2.9
92.5°	11.7	9.4
95°	41.0	33.9
97.5°	98.0	84.6
100°	141.3	125.3
102.5°	183.7	170.0
105°	238.0	230.6
107.5°	273.5	275.3
110°	287.0	294.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	288.2	300.0
115°	280.6	296.9
117.5°	264.3	282.5
120°	251.3	268.9
122.5°	238.5	255.9
125°	220.5	236.5
127.5°	204.1	217.6
130°	194.5	207.0
132.5°	185.8	197.0
135°	173.9	183.5
137.5°	164.2	172.2
140°	157.6	165.0
142.5°	152.2	158.5
145°	144.1	148.8
147.5°	137.8	141.8
150°	133.8	137.1
152.5°	130.4	132.9
155°	126.6	128.2
157.5°	123.5	124.7
160°	121.7	122.3
162.5°	120.4	121.0
165°	118.7	119.4
167.5°	117.4	117.7
170°	117.1	117.1
172.5°	116.2	116.0
175°	115.7	115.7
177.5°	115.2	114.9
180°	114.9	114.9



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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	5.50	6.66	6.24	7.43	8.35	18.64	19.80	19.39	20.57	21.49
	3H	6.23	7.27	6.98	8.05	9.01	20.49	21.53	21.24	22.31	23.27
	4H	6.54	7.53	7.32	8.32	9.28	21.14	22.12	21.91	22.91	23.88
	6H	6.81	7.72	7.60	8.52	9.50	21.57	22.48	22.36	23.28	24.26
	8H	6.89	7.76	7.68	8.57	9.56	21.69	22.56	22.49	23.38	24.36
	12H	6.91	7.74	7.72	8.55	9.57	21.77	22.59	22.57	23.41	24.42
4H	2H	12.73	13.72	13.51	14.50	15.47	18.95	19.94	19.73	20.73	21.70
	3H	14.33	15.15	15.12	15.98	16.96	21.01	21.84	21.80	22.66	23.65
	4H	14.44	15.19	15.24	16.01	17.02	21.78	22.53	22.58	23.36	24.37
	6H	14.46	15.12	15.28	15.97	16.98	22.33	22.98	23.15	23.83	24.84
	8H	14.45	15.06	15.27	15.90	16.94	22.49	23.10	23.31	23.94	24.97
	12H	14.42	14.97	15.27	15.84	16.87	22.59	23.14	23.43	24.00	25.04
8H	4H	15.89	16.51	16.72	17.35	18.38	21.87	22.48	22.69	23.32	24.35
	6H	16.15	16.66	17.00	17.54	18.58	22.50	23.01	23.35	23.89	24.92
	8H	16.17	16.63	17.04	17.51	18.55	22.71	23.17	23.58	24.05	25.10
	12H	16.16	16.56	17.02	17.43	18.53	22.86	23.26	23.73	24.13	25.24
12H	4H	16.05	16.60	16.90	17.47	18.50	21.84	22.39	22.68	23.25	24.29
	6H	16.41	16.86	17.27	17.74	18.79	22.48	22.94	23.35	23.82	24.87
	8H	16.49	16.89	17.36	17.76	18.87	22.72	23.12	23.59	23.99	25.10