

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: P936332

Luminaire Tested: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936332
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-92765-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

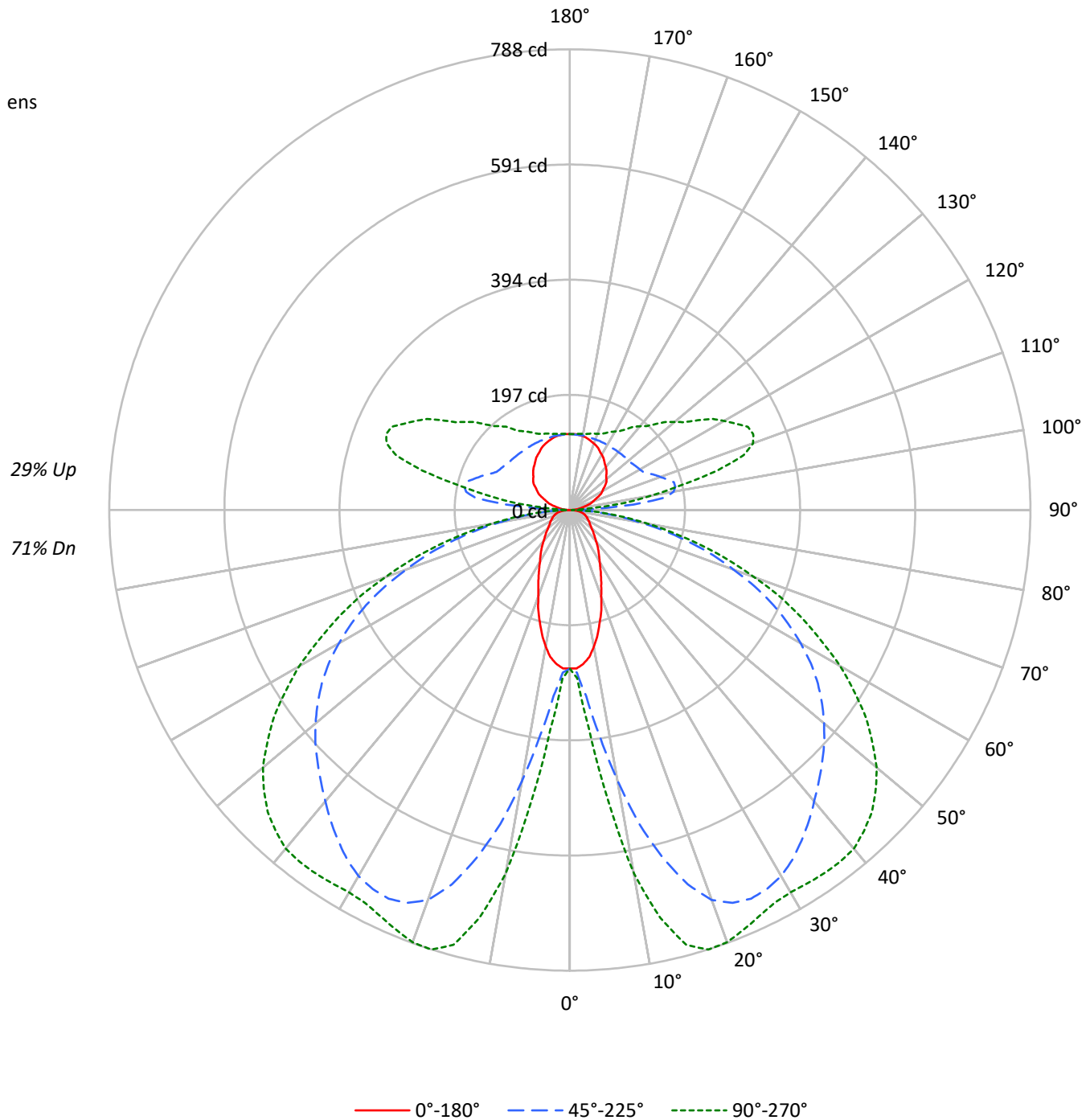
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2942.1 lumens
Efficiency: N/A
Efficacy: 98.1 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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CATALOG NUMBER: SQ4-FB-025U-075D-92765-1D-UNV-STD-W-4-3000K

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2517	2517	2517
5°	2456	2907	3383
10°	2225	4233	5608
15°	1889	5527	6771
20°	1536	6400	6901
25°	1279	6693	6761
30°	1077	6730	6748
35°	952	6613	6923
40°	828	6462	7103
45°	748	6350	7131
50°	684	6248	7013
55°	654	6101	6702
60°	667	5826	6211
65°	690	5410	5536
70°	731	4708	4677
75°	800	3828	3650
80°	856	2647	2459
85°	720	1396	1258

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 7131 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	1.2
10°-20°	155.5	5.3
20°-30°	272.0	9.2
30°-40°	350.1	11.9
40°-50°	391.0	13.3
50°-60°	374.5	12.7
60°-70°	296.8	10.1
70°-80°	174.5	5.9
80°-90°	49.0	1.7
90°-100°	63.4	2.2
100°-110°	166.8	5.7
110°-120°	172.9	5.9
120°-130°	138.7	4.7
130°-140°	108.8	3.7
140°-150°	83.5	2.8
150°-160°	60.2	2.0
160°-170°	36.8	1.3
170°-180°	12.4	0.4
0°-30°	462.5	15.7
0°-40°	812.6	27.6
0°-60°	1578.2	53.6
0°-90°	2098.5	71.3
90°-120°	403.2	13.7
90°-150°	734.2	25.0
90°-180°	844.0	28.7
0°-180°	2942.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	271	271	271	271	271	
5°	264	283	319	361	374	24
15°	198	365	616	746	770	55
25°	126	414	733	766	766	58
35°	86	396	691	730	759	53
45°	58	316	610	699	731	45
55°	42	201	518	602	618	38
65°	33	106	385	432	439	33
75°	24	65	211	232	233	26
85°	9	20	52	58	58	9
90°	1	2	7	3	3	1
95°	8	33	109	56	38	9
105°	30	46	184	280	261	32
115°	53	65	148	295	336	53
125°	74	83	134	227	268	66
135°	88	97	130	183	208	68
145°	103	109	128	156	169	64
155°	116	119	128	141	145	53
165°	125	127	128	134	135	35
175°	130	130	129	131	131	12
180°	130	130	130	130	130	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2	271.2
2.5°	271.2	271.2	272.9	273.8	275.6	276.4	278.2	279.9	285.2	286.0	287.8
5°	264.2	267.7	279.1	283.4	295.6	312.2	319.2	330.5	354.0	361.0	365.4
7.5°	253.8	261.6	289.5	296.5	327.0	370.6	388.9	413.3	450.8	469.2	484.0
10°	237.2	253.8	303.5	320.0	369.7	436.0	470.0	504.0	560.7	586.0	595.6
12.5°	218.9	245.9	318.3	341.0	412.5	509.3	550.3	587.8	652.3	686.3	691.5
15°	198.0	234.6	332.2	365.4	457.8	570.3	615.7	661.9	722.0	746.5	752.6
17.5°	179.6	225.9	345.3	380.2	492.7	625.2	671.5	709.8	758.7	775.2	779.6
20°	157.0	211.9	354.0	399.4	529.3	665.4	709.8	739.5	772.6	783.1	784.8
22.5°	140.4	197.1	359.3	406.4	553.7	689.8	727.3	750.8	773.5	777.0	777.9
25°	126.4	180.5	358.4	414.2	574.7	704.6	733.4	750.8	763.9	765.6	765.6
27.5°	113.4	162.2	354.9	416.0	590.4	708.1	730.8	743.0	749.1	752.6	752.6
30°	102.0	144.8	346.2	412.5	597.3	704.6	722.9	729.0	735.1	740.4	743.0
32.5°	93.3	128.2	333.1	405.5	598.2	695.9	709.0	712.5	721.2	733.4	737.7
35°	85.5	111.6	318.3	395.9	593.0	681.9	690.7	694.1	711.6	729.9	736.0
37.5°	77.6	99.4	299.1	379.3	585.1	665.4	671.5	677.6	704.6	726.4	733.4
40°	69.8	88.9	276.4	361.0	572.9	645.3	650.5	660.1	695.9	721.2	728.1
42.5°	63.7	80.2	252.0	341.8	557.2	622.6	630.5	644.4	685.4	712.5	720.3
45°	58.4	71.5	225.9	315.7	537.2	599.1	610.4	629.6	673.2	699.4	706.3
47.5°	53.2	65.4	198.8	288.6	515.4	575.5	590.4	612.2	656.6	681.9	688.0
50°	48.8	59.3	171.8	259.9	491.8	550.3	567.7	590.4	635.7	659.3	667.1
52.5°	45.3	54.1	146.5	231.1	464.8	524.1	544.1	567.7	610.4	633.1	638.3
55°	41.9	49.7	124.7	200.6	436.9	496.2	518.0	540.7	582.5	601.7	605.2
57.5°	40.1	46.2	106.4	171.8	407.2	464.8	489.2	510.1	549.4	564.2	567.7
60°	37.5	43.6	92.4	147.4	375.0	435.1	456.1	477.0	510.1	522.3	525.0
62.5°	34.9	41.9	82.0	123.8	341.8	400.3	421.2	440.4	468.3	477.0	480.5
65°	33.1	40.1	74.1	106.4	307.8	363.6	384.6	401.1	423.8	432.5	434.3
67.5°	31.4	38.4	68.0	91.6	273.8	327.0	342.7	358.4	375.8	384.6	385.4
70°	28.8	36.6	62.8	81.1	238.9	285.2	298.2	314.8	328.8	333.1	335.7
72.5°	27.0	34.0	59.3	73.3	203.2	245.0	257.3	266.8	279.1	283.4	283.4
75°	24.4	30.5	55.8	65.4	166.6	200.6	211.0	220.6	230.2	232.0	229.3
77.5°	21.8	27.0	48.0	54.9	129.9	158.7	167.4	172.7	180.5	182.3	183.1
80°	18.3	23.5	37.5	42.7	94.2	116.9	123.0	127.3	134.3	134.3	136.0
82.5°	14.0	18.3	27.0	30.5	63.7	80.2	85.5	88.1	92.4	92.4	92.4
85°	8.7	11.3	17.4	20.1	38.4	48.8	52.3	53.2	56.7	57.6	57.6
87.5°	4.4	6.1	11.3	12.2	20.1	25.3	25.3	27.0	27.0	26.2	25.3
90°	0.9	1.6	2.3	2.4	3.8	5.7	6.6	5.9	4.4	3.3	3.3
92.5°	3.5	9.4	15.3	16.8	23.7	32.9	37.4	32.8	23.5	16.6	15.9
95°	8.4	19.3	30.2	32.9	58.3	92.3	109.3	97.5	73.9	56.3	54.3
97.5°	14.5	24.1	33.7	36.1	78.6	135.2	163.5	156.1	141.2	130.0	126.2
100°	19.2	27.9	36.6	38.8	85.9	148.8	180.2	180.7	181.8	182.6	178.1
102.5°	23.2	31.3	39.5	41.5	89.3	153.0	184.9	194.4	213.3	227.5	223.6
105°	30.1	37.0	43.8	45.5	91.8	153.5	184.3	205.6	248.1	279.9	277.8
107.5°	37.1	43.4	49.9	51.5	92.3	146.7	173.9	203.5	262.7	307.2	307.7
110°	41.8	47.5	53.3	54.8	91.6	140.7	165.2	198.3	264.5	314.2	316.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	46.4	51.9	57.4	58.8	91.6	135.3	157.2	191.1	258.9	309.7	313.1
115°	53.4	58.4	63.5	64.8	92.4	129.3	147.7	180.3	245.7	294.6	299.2
117.5°	60.3	64.9	69.5	70.6	94.2	125.5	141.2	170.7	229.5	273.7	278.9
120°	64.3	68.6	73.0	74.0	95.5	124.2	138.5	165.4	219.3	259.7	264.7
122.5°	68.2	72.6	76.9	78.0	97.5	123.5	136.5	160.7	209.2	245.6	250.4
125°	74.2	78.2	82.2	83.3	100.3	123.0	134.3	154.9	196.1	227.0	231.5
127.5°	79.1	83.2	87.2	88.2	103.0	122.6	132.5	150.2	185.6	212.1	215.9
130°	81.7	86.1	90.4	91.6	105.0	122.9	131.8	147.5	179.0	202.7	206.1
132.5°	84.5	88.9	93.2	94.3	106.6	123.0	131.2	145.3	173.4	194.6	197.8
135°	88.5	92.4	96.4	97.4	108.3	122.9	130.1	141.9	165.5	183.2	185.9
137.5°	92.6	96.5	100.5	101.4	110.9	123.6	129.9	139.9	159.8	174.8	177.1
140°	96.0	99.6	103.2	104.1	112.5	123.7	129.3	138.0	155.2	168.1	170.2
142.5°	98.6	101.9	105.3	106.1	113.9	124.2	129.3	136.9	152.1	163.4	165.3
145°	102.6	105.5	108.5	109.2	115.6	124.2	128.5	134.6	147.0	156.4	157.8
147.5°	106.6	109.4	112.3	113.0	118.2	125.0	128.5	133.3	143.1	150.4	151.6
150°	109.3	111.8	114.4	115.0	119.5	125.5	128.5	132.5	140.8	147.0	147.9
152.5°	112.0	113.9	115.8	116.3	120.3	125.7	128.5	131.9	139.0	144.3	145.0
155°	116.0	117.4	118.9	119.2	122.3	126.4	128.5	131.2	136.9	141.1	141.5
157.5°	118.9	120.3	121.7	122.1	124.2	127.1	128.5	130.6	135.0	138.2	138.6
160°	121.0	122.0	123.1	123.4	125.0	127.3	128.5	130.3	134.0	136.8	137.0
162.5°	123.0	123.7	124.6	124.8	126.0	127.7	128.5	130.0	133.2	135.5	135.7
165°	125.1	125.8	126.6	126.8	127.3	128.1	128.5	129.6	131.9	133.5	133.7
167.5°	127.1	127.5	127.8	127.9	128.4	129.0	129.3	130.0	131.5	132.6	132.7
170°	128.5	128.8	129.1	129.2	129.2	129.3	129.3	130.0	131.5	132.6	132.6
172.5°	129.1	129.2	129.3	129.3	129.3	129.3	129.3	129.9	131.1	131.9	131.9
175°	130.1	130.1	130.1	130.1	129.8	129.5	129.3	129.7	130.5	131.0	131.0
177.5°	130.1	130.1	130.1	130.1	129.9	129.7	129.5	129.8	130.4	130.8	130.7
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	271.2	271.2
2.5°	289.5	287.8
5°	372.4	374.1
7.5°	501.4	500.5
10°	623.5	631.4
12.5°	712.5	714.2
15°	766.5	770.0
17.5°	787.4	788.3
20°	788.3	786.6
22.5°	778.7	777.0
25°	767.4	766.5
27.5°	756.9	757.8
30°	752.6	755.2
32.5°	752.6	756.9
35°	754.3	758.7
37.5°	753.4	758.7
40°	749.9	756.1
42.5°	740.4	744.7
45°	725.5	730.8
47.5°	706.3	709.8
50°	681.9	685.4
52.5°	651.4	652.3
55°	614.8	618.3
57.5°	575.5	576.4
60°	531.9	534.6
62.5°	485.7	485.7
65°	436.9	438.6
67.5°	386.3	390.7
70°	334.9	335.7
72.5°	284.3	284.3
75°	232.0	232.8
77.5°	182.3	182.3
80°	135.2	136.0
82.5°	93.3	95.1
85°	58.4	58.4
87.5°	27.0	24.4
90°	3.3	3.3
92.5°	13.3	10.6
95°	46.4	38.4
97.5°	111.0	95.8
100°	160.0	141.9
102.5°	208.1	192.5
105°	269.5	261.2
107.5°	309.7	311.8
110°	325.0	333.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	326.4	339.7
115°	317.8	336.3
117.5°	299.4	319.9
120°	284.6	304.5
122.5°	270.2	289.9
125°	249.7	267.8
127.5°	231.2	246.4
130°	220.3	234.4
132.5°	210.4	223.1
135°	196.9	207.8
137.5°	186.0	195.0
140°	178.5	186.9
142.5°	172.4	179.6
145°	163.2	168.6
147.5°	156.0	160.5
150°	151.6	155.2
152.5°	147.7	150.5
155°	143.4	145.2
157.5°	139.9	141.2
160°	137.8	138.5
162.5°	136.4	137.1
165°	134.5	135.2
167.5°	133.0	133.3
170°	132.6	132.6
172.5°	131.6	131.3
175°	131.0	131.0
177.5°	130.5	130.1
180°	130.1	130.1



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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	5.94	7.09	6.68	7.86	8.79	19.08	20.23	19.82	21.00	21.93
	3H	6.67	7.71	7.42	8.49	9.44	20.92	21.96	21.68	22.74	23.70
	4H	6.98	7.96	7.75	8.75	9.72	21.57	22.55	22.34	23.34	24.31
	6H	7.24	8.15	8.03	8.95	9.93	22.00	22.91	22.79	23.71	24.69
	8H	7.32	8.19	8.11	9.01	9.99	22.13	23.00	22.92	23.81	24.80
	12H	7.35	8.18	8.15	8.99	10.00	22.20	23.03	23.00	23.84	24.85
4H	2H	13.16	14.15	13.94	14.94	15.90	19.39	20.37	20.16	21.16	22.13
	3H	14.76	15.59	15.55	16.41	17.39	21.44	22.27	22.23	23.09	24.08
	4H	14.87	15.62	15.67	16.44	17.46	22.21	22.97	23.02	23.79	24.80
	6H	14.90	15.55	15.72	16.40	17.42	22.76	23.41	23.58	24.26	25.28
	8H	14.88	15.49	15.71	16.34	17.37	22.92	23.53	23.75	24.38	25.41
	12H	14.85	15.41	15.70	16.27	17.31	23.02	23.57	23.87	24.44	25.47
8H	4H	16.33	16.94	17.15	17.78	18.81	22.30	22.91	23.12	23.75	24.79
	6H	16.58	17.09	17.44	17.98	19.01	22.93	23.44	23.78	24.32	25.36
	8H	16.61	17.06	17.47	17.94	18.99	23.15	23.60	24.01	24.48	25.53
	12H	16.59	16.99	17.46	17.86	18.96	23.30	23.70	24.17	24.57	25.67
12H	4H	16.48	17.04	17.33	17.90	18.94	22.27	22.82	23.11	23.68	24.72
	6H	16.84	17.30	17.71	18.17	19.22	22.92	23.37	23.78	24.25	25.30
	8H	16.93	17.33	17.79	18.20	19.30	23.15	23.55	24.02	24.43	25.53