

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: P936539

Luminaire Tested: SQ4-FB-025U-125D-92765-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936539
REPORT IS A COMBINATION OF REPORTS P933448 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-125D-92765-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

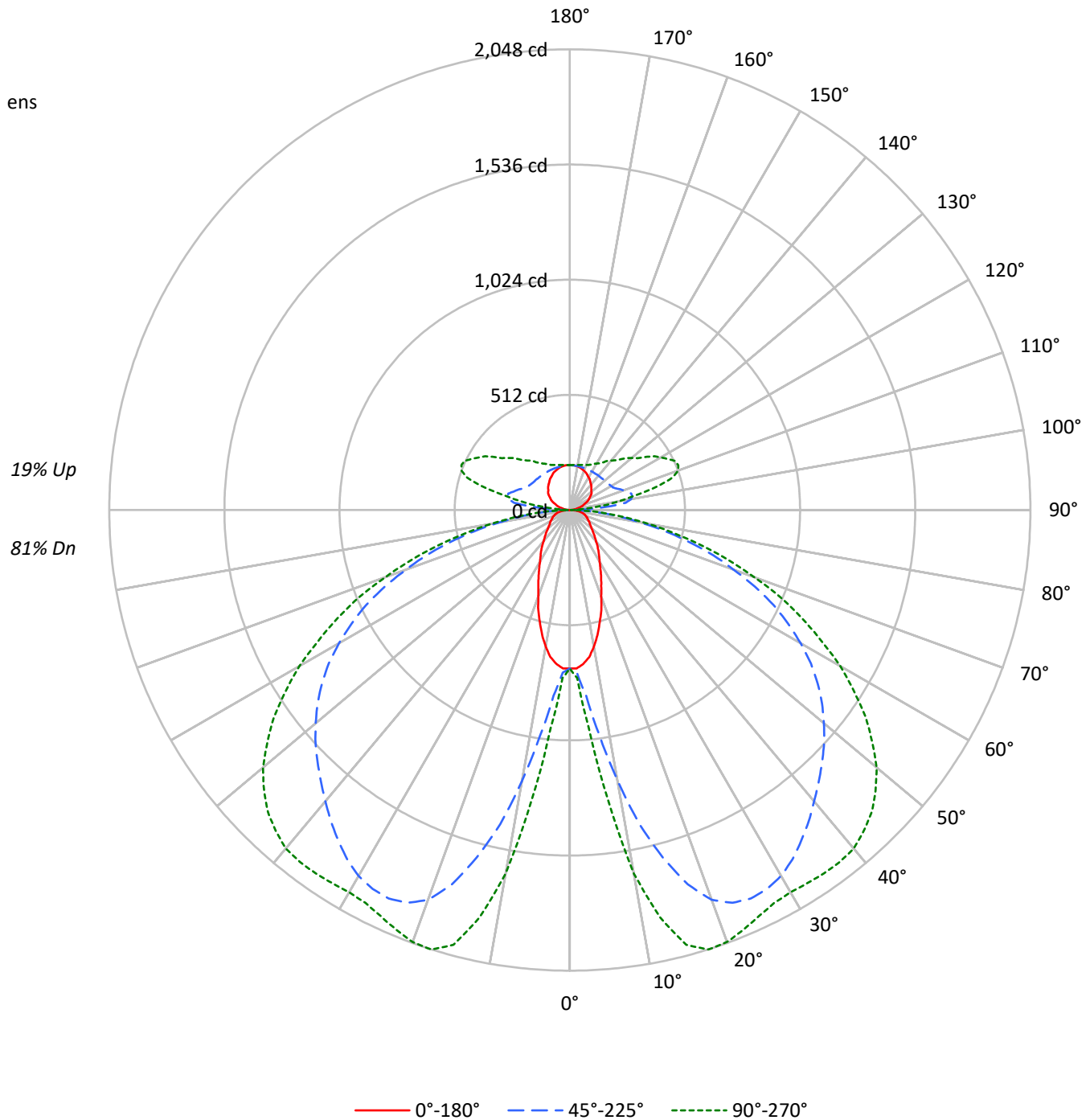
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6747.3 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 74.4
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	114	114	114	114	110	110	110	110	100	100	100	92	92	92	84	84	84	84	84	84	81
1	104	99	94	90	99	95	91	87	87	84	81	80	77	75	73	71	70	70	70	70	66
2	94	85	78	72	89	82	75	70	75	70	66	69	65	61	63	60	57	57	57	57	54
3	85	74	66	59	81	71	64	58	65	59	54	60	55	51	55	51	48	48	48	48	45
4	77	65	56	49	74	63	54	48	58	51	45	53	47	43	49	44	40	40	40	40	37
5	71	58	49	42	67	55	47	41	51	44	39	47	41	36	43	38	34	34	34	34	32
6	65	51	42	36	62	49	41	35	46	39	33	42	36	31	39	34	30	30	30	30	27
7	60	46	37	31	57	45	36	30	41	34	29	38	32	27	35	30	26	26	26	26	24
8	55	42	33	27	53	40	32	27	37	30	25	35	29	24	32	27	23	23	23	23	21
9	52	38	30	24	49	37	29	24	34	27	23	32	26	22	29	24	20	20	20	20	18
10	48	35	27	22	46	34	26	21	31	25	20	29	23	19	27	22	18	18	18	18	16

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4359	4359	4359
5°	4257	5037	5860
10°	3860	7341	9714
15°	3279	9588	11729
20°	2668	11108	11954
25°	2226	11622	11711
30°	1876	11692	11689
35°	1658	11495	11992
40°	1444	11239	12303
45°	1306	11051	12352
50°	1197	10881	12147
55°	1145	10634	11609
60°	1171	10162	10758
65°	1217	9447	9591
70°	1294	8233	8103
75°	1429	6707	6322
80°	1549	4646	4261
85°	1353	2460	2180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12352 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.4
10°-20°	404.0	6.0
20°-30°	706.6	10.5
30°-40°	909.6	13.5
40°-50°	1016.0	15.1
50°-60°	973.1	14.4
60°-70°	771.2	11.4
70°-80°	453.5	6.7
80°-90°	126.7	1.9
90°-100°	97.4	1.4
100°-110°	256.1	3.8
110°-120°	265.5	3.9
120°-130°	213.0	3.2
130°-140°	167.1	2.5
140°-150°	128.3	1.9
150°-160°	92.4	1.4
160°-170°	56.5	0.8
170°-180°	19.1	0.3
0°-30°	1201.8	17.8
0°-40°	2111.4	31.3
0°-60°	4100.6	60.8
0°-90°	5452.0	80.8
90°-120°	619.0	9.2
90°-150°	1127.3	16.7
90°-180°	1295.0	19.2
0°-180°	6747.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	705	705	705	705	705	
5°	686	736	829	938	972	63
15°	514	949	1600	1940	2001	143
25°	329	1076	1906	1989	1992	151
35°	222	1029	1794	1896	1971	139
45°	152	820	1586	1817	1899	117
55°	109	521	1346	1563	1606	99
65°	86	276	999	1124	1140	85
75°	64	170	548	603	605	66
85°	23	52	136	150	152	24
90°	1	4	10	5	5	3
95°	13	50	168	86	59	14
105°	46	70	283	430	401	49
115°	82	100	227	452	516	81
125°	114	128	206	349	411	101
135°	136	150	200	281	319	105
145°	158	168	197	240	259	99
155°	178	183	197	216	223	82
165°	192	195	197	205	208	54
175°	200	200	199	201	201	19
180°	200	200	200	200	200	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6	704.6
2.5°	704.6	704.6	709.2	711.4	716.0	718.3	722.8	727.3	740.9	743.2	747.7
5°	686.5	695.6	725.1	736.4	768.1	811.1	829.2	858.7	919.9	938.1	949.4
7.5°	659.4	679.7	752.2	770.3	849.7	963.0	1010.5	1074.0	1171.4	1219.0	1257.5
10°	616.3	659.4	788.5	831.6	960.7	1132.9	1221.3	1309.7	1456.9	1522.6	1547.5
12.5°	568.7	638.9	827.0	885.9	1071.7	1323.2	1429.7	1527.1	1694.8	1783.2	1796.8
15°	514.3	609.5	863.3	949.4	1189.5	1481.8	1599.7	1719.7	1876.1	1939.5	1955.4
17.5°	466.8	586.8	897.3	987.9	1280.2	1624.6	1744.6	1844.3	1971.3	2014.3	2025.6
20°	407.8	550.6	919.9	1037.8	1375.3	1728.8	1844.3	1921.4	2007.5	2034.6	2039.2
22.5°	364.8	512.1	933.5	1055.9	1438.8	1792.2	1889.7	1950.8	2009.7	2018.8	2021.1
25°	328.6	469.0	931.3	1076.2	1493.2	1830.8	1905.6	1950.8	1984.8	1989.4	1989.4
27.5°	294.6	421.4	922.2	1080.8	1534.0	1839.8	1898.7	1930.5	1946.3	1955.4	1955.4
30°	265.1	376.2	899.5	1071.7	1552.1	1830.8	1878.3	1894.2	1910.0	1923.7	1930.5
32.5°	242.4	333.0	865.5	1053.6	1554.3	1808.1	1842.1	1851.1	1873.8	1905.6	1916.8
35°	222.1	290.0	827.0	1028.7	1540.8	1771.9	1794.5	1803.5	1848.9	1896.5	1912.3
37.5°	201.6	258.3	777.2	985.6	1520.3	1728.8	1744.6	1760.5	1830.8	1887.4	1905.6
40°	181.3	231.1	718.3	938.1	1488.6	1676.7	1690.3	1715.2	1808.1	1873.8	1891.9
42.5°	165.4	208.4	654.8	888.2	1447.8	1617.8	1638.1	1674.4	1780.9	1851.1	1871.6
45°	151.8	185.8	586.8	820.2	1395.7	1556.6	1586.0	1635.9	1749.2	1817.2	1835.3
47.5°	138.2	170.0	516.6	750.0	1339.1	1495.4	1534.0	1590.6	1706.2	1771.9	1787.7
50°	126.8	154.1	446.4	675.2	1277.9	1429.7	1475.1	1534.0	1651.8	1712.9	1733.3
52.5°	117.8	140.5	380.6	600.5	1207.6	1361.7	1413.8	1475.1	1586.0	1644.9	1658.6
55°	108.7	129.2	324.0	521.1	1135.1	1289.2	1345.9	1404.8	1513.5	1563.4	1572.4
57.5°	104.3	120.1	276.4	446.4	1058.1	1207.6	1271.1	1325.5	1427.5	1465.9	1475.1
60°	97.4	113.3	240.2	382.9	974.3	1130.6	1185.0	1239.4	1325.5	1357.2	1364.0
62.5°	90.6	108.7	213.0	321.7	888.2	1040.0	1094.4	1144.2	1216.7	1239.4	1248.4
65°	86.1	104.3	192.6	276.4	799.8	944.8	999.2	1042.2	1101.1	1123.8	1128.4
67.5°	81.6	99.7	176.7	237.9	711.4	849.7	890.5	931.3	976.5	999.2	1001.5
70°	74.8	95.2	163.2	210.7	620.8	740.9	774.9	817.9	854.2	865.5	872.4
72.5°	70.2	88.4	154.1	190.3	527.9	636.7	668.4	693.3	725.1	736.4	736.4
75°	63.5	79.3	145.1	170.0	432.7	521.1	548.3	573.2	598.1	602.7	595.9
77.5°	56.7	70.2	124.6	142.7	337.6	412.4	435.1	448.6	469.0	473.5	475.9
80°	47.6	61.1	97.4	111.0	244.7	303.6	319.5	330.8	348.9	348.9	353.5
82.5°	36.2	47.6	70.2	79.3	165.4	208.4	222.1	228.9	240.2	240.2	240.2
85°	22.7	29.5	45.3	52.1	99.7	126.8	135.9	138.2	147.3	149.5	149.5
87.5°	11.3	15.9	29.5	31.7	52.1	65.7	65.7	70.2	70.2	68.0	65.7
90°	1.3	2.4	3.5	3.7	5.9	8.7	10.2	9.0	6.8	5.1	5.1
92.5°	5.4	14.5	23.6	25.9	36.4	50.4	57.4	50.3	36.1	25.4	24.5
95°	12.9	29.5	46.2	50.4	89.5	141.7	167.7	149.7	113.5	86.5	83.5
97.5°	22.2	37.0	51.7	55.3	120.6	207.5	251.0	239.6	216.8	199.7	193.9
100°	29.5	42.8	56.2	59.5	131.9	228.4	276.6	277.4	279.1	280.4	273.4
102.5°	35.7	48.2	60.6	63.7	137.1	234.9	283.9	298.4	327.5	349.4	343.4
105°	46.1	56.7	67.2	69.9	140.9	235.7	283.0	315.6	380.9	429.8	426.6
107.5°	56.9	66.7	76.5	79.0	141.7	225.2	267.0	312.5	403.5	471.7	472.5
110°	64.1	73.0	81.9	84.1	140.6	215.9	253.6	304.5	406.1	482.4	485.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	71.2	79.7	88.1	90.2	140.6	207.8	241.4	293.4	397.5	475.5	480.6
115°	81.9	89.8	97.6	99.5	141.9	198.4	226.7	276.9	377.1	452.3	459.4
117.5°	92.6	99.6	106.7	108.5	144.5	192.6	216.7	262.0	352.4	420.2	428.1
120°	98.7	105.4	112.0	113.7	146.7	190.8	212.7	254.0	336.7	398.7	406.4
122.5°	104.7	111.5	118.2	119.9	149.8	189.7	209.6	246.8	321.3	377.1	384.7
125°	114.0	120.1	126.3	127.8	154.0	188.9	206.3	237.9	301.2	348.6	355.5
127.5°	121.5	127.6	133.9	135.4	158.1	188.3	203.4	230.6	284.9	325.6	331.5
130°	125.5	132.2	138.8	140.5	161.1	188.6	202.4	226.5	274.8	311.1	316.5
132.5°	129.7	136.4	143.0	144.7	163.6	188.9	201.5	223.1	266.4	298.8	303.6
135°	135.9	141.9	148.0	149.5	166.3	188.7	199.9	218.0	254.2	281.4	285.5
137.5°	142.2	148.2	154.2	155.7	170.3	189.9	199.6	214.9	245.6	268.5	271.9
140°	147.4	152.9	158.4	159.9	172.8	190.0	198.6	211.8	238.3	258.1	261.4
142.5°	151.4	156.5	161.7	162.9	174.8	190.7	198.6	210.2	233.5	250.9	253.7
145°	157.5	162.0	166.5	167.6	177.5	190.7	197.3	206.7	225.7	240.0	242.1
147.5°	163.7	168.1	172.5	173.5	181.5	192.0	197.3	204.8	219.7	230.9	232.6
150°	167.7	171.7	175.7	176.6	183.5	192.7	197.3	203.6	216.2	225.7	227.1
152.5°	171.9	174.9	177.9	178.6	184.9	193.2	197.3	202.6	213.4	221.5	222.6
155°	178.1	180.3	182.5	183.1	187.8	194.1	197.3	201.6	210.1	216.5	217.3
157.5°	182.6	184.8	186.9	187.5	190.8	195.1	197.3	200.6	207.3	212.3	212.8
160°	185.8	187.5	189.1	189.5	192.1	195.6	197.3	200.1	205.8	210.1	210.4
162.5°	188.8	190.0	191.3	191.6	193.5	196.0	197.3	199.7	204.5	208.2	208.4
165°	192.2	193.3	194.4	194.7	195.6	196.7	197.3	199.0	202.4	205.0	205.3
167.5°	195.2	195.8	196.3	196.5	197.2	198.2	198.6	199.8	202.0	203.7	203.8
170°	197.3	197.8	198.3	198.4	198.5	198.6	198.6	199.8	202.0	203.7	203.7
172.5°	198.3	198.4	198.6	198.6	198.6	198.6	198.6	199.5	201.3	202.6	202.5
175°	199.9	199.9	199.9	199.9	199.4	198.9	198.6	199.1	200.3	201.2	201.2
177.5°	199.9	199.9	199.9	199.9	199.5	199.1	198.9	199.3	200.2	200.9	200.8
180°	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9	199.9



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	704.6	704.6
2.5°	752.2	747.7
5°	967.5	972.1
7.5°	1302.9	1300.5
10°	1620.0	1640.5
12.5°	1851.1	1855.7
15°	1991.6	2000.7
17.5°	2046.0	2048.3
20°	2048.3	2043.7
22.5°	2023.3	2018.8
25°	1993.8	1991.6
27.5°	1966.7	1968.9
30°	1955.4	1962.2
32.5°	1955.4	1966.7
35°	1959.9	1971.3
37.5°	1957.6	1971.3
40°	1948.6	1964.4
42.5°	1923.7	1935.0
45°	1885.1	1898.7
47.5°	1835.3	1844.3
50°	1771.9	1780.9
52.5°	1692.5	1694.8
55°	1597.3	1606.4
57.5°	1495.4	1497.6
60°	1382.1	1388.9
62.5°	1262.1	1262.1
65°	1135.1	1139.7
67.5°	1003.8	1015.1
70°	870.0	872.4
72.5°	738.6	738.6
75°	602.7	604.9
77.5°	473.5	473.5
80°	351.2	353.5
82.5°	242.4	247.0
85°	151.8	151.8
87.5°	70.2	63.5
90°	5.1	5.1
92.5°	20.4	16.3
95°	71.1	58.9
97.5°	170.5	147.1
100°	245.6	217.8
102.5°	319.6	295.7
105°	413.8	401.0
107.5°	475.5	478.6
110°	499.1	512.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	501.1	521.6
115°	487.8	516.3
117.5°	459.7	491.2
120°	437.0	467.6
122.5°	414.9	445.1
125°	383.3	411.1
127.5°	355.0	378.5
130°	338.2	359.9
132.5°	323.0	342.5
135°	302.2	319.0
137.5°	285.6	299.3
140°	274.1	287.0
142.5°	264.7	275.7
145°	250.5	258.9
147.5°	239.6	246.5
150°	232.7	238.3
152.5°	226.8	231.1
155°	220.0	222.9
157.5°	214.8	216.7
160°	211.6	212.7
162.5°	209.5	210.6
165°	206.5	207.6
167.5°	204.3	204.8
170°	203.7	203.7
172.5°	202.1	201.7
175°	201.2	201.2
177.5°	200.3	199.9
180°	199.9	199.9



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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	8.54	9.84	9.17	10.49	11.24	21.71	23.01	22.34	23.66	24.41
	3H	9.28	10.45	9.92	11.11	11.90	23.57	24.75	24.22	25.41	26.19
	4H	9.59	10.71	10.26	11.38	12.17	24.23	25.34	24.90	26.02	26.81
	6H	9.87	10.90	10.55	11.58	12.39	24.68	25.71	25.36	26.39	27.20
	8H	9.95	10.93	10.64	11.64	12.45	24.81	25.80	25.50	26.50	27.31
	12H	9.98	10.92	10.68	11.62	12.46	24.89	25.83	25.59	26.53	27.37
4H	2H	15.80	16.91	16.46	17.58	18.38	22.03	23.14	22.70	23.82	24.61
	3H	17.41	18.34	18.09	19.05	19.87	24.11	25.05	24.79	25.76	26.57
	4H	17.52	18.37	18.22	19.08	19.93	24.89	25.74	25.59	26.46	27.30
	6H	17.56	18.30	18.27	19.04	19.89	25.45	26.20	26.17	26.93	27.79
	8H	17.54	18.24	18.27	18.98	19.84	25.63	26.32	26.35	27.06	27.92
	12H	17.52	18.15	18.27	18.91	19.78	25.74	26.37	26.48	27.12	28.00
8H	4H	19.00	19.69	19.72	20.43	21.29	24.99	25.69	25.71	26.42	27.29
	6H	19.26	19.84	20.01	20.62	21.49	25.64	26.22	26.39	26.99	27.86
	8H	19.29	19.80	20.05	20.58	21.46	25.86	26.38	26.63	27.16	28.04
	12H	19.28	19.73	20.04	20.50	21.44	26.02	26.48	26.79	27.25	28.19
12H	4H	19.16	19.79	19.91	20.55	21.42	24.97	25.59	25.71	26.35	27.22
	6H	19.52	20.04	20.29	20.82	21.70	25.63	26.14	26.39	26.92	27.81
	8H	19.62	20.07	20.38	20.84	21.78	25.88	26.33	26.64	27.10	28.04