

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: P936572

Luminaire Tested: SQ4-FB-025U-125D-935-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936572
REPORT IS A COMBINATION OF REPORTS P933456 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-025U-125D-935-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

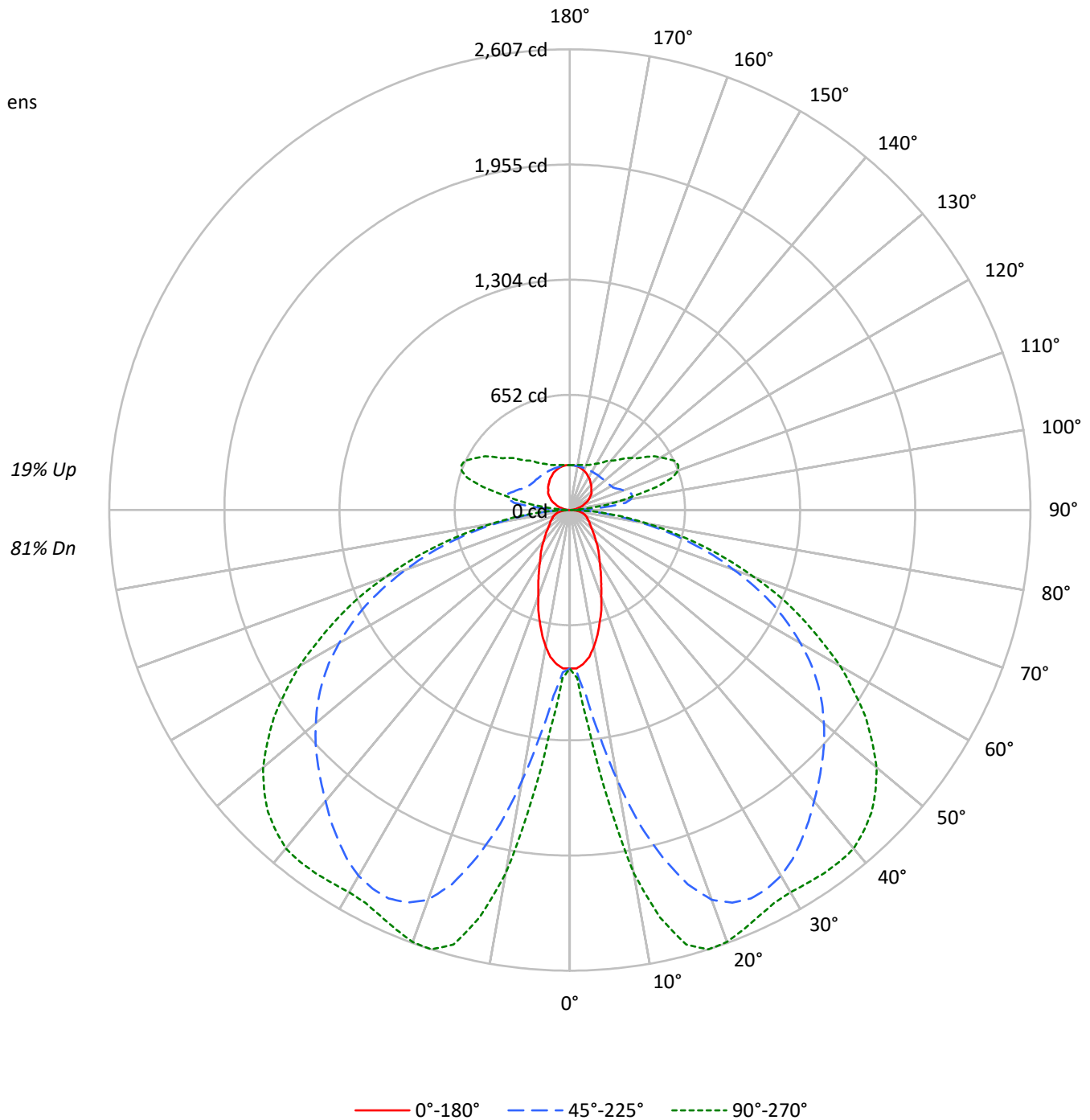
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8587.4 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: 8' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 99.2
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				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°	4161	4161	4161
5°	4065	4810	5593
10°	3687	7010	9272
15°	3134	9159	11196
20°	2551	10613	11411
25°	2128	11107	11179
30°	1795	11176	11158
35°	1587	10991	11446
40°	1383	10750	11744
45°	1252	10573	11790
50°	1149	10414	11595
55°	1100	10182	11081
60°	1126	9734	10269
65°	1172	9055	9154
70°	1249	7896	7733
75°	1384	6439	6036
80°	1512	4465	4067
85°	1341	2369	2081

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 11790 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.0	1.4
10°-20°	514.2	6.0
20°-30°	899.3	10.5
30°-40°	1157.7	13.5
40°-50°	1293.1	15.1
50°-60°	1238.5	14.4
60°-70°	981.5	11.4
70°-80°	577.2	6.7
80°-90°	161.3	1.9
90°-100°	124.0	1.4
100°-110°	325.9	3.8
110°-120°	337.9	3.9
120°-130°	271.1	3.2
130°-140°	212.7	2.5
140°-150°	163.2	1.9
150°-160°	117.6	1.4
160°-170°	71.9	0.8
170°-180°	24.3	0.3
0°-30°	1529.5	17.8
0°-40°	2687.2	31.3
0°-60°	5218.8	60.8
0°-90°	6938.8	80.8
90°-120°	787.8	9.2
90°-150°	1434.7	16.7
90°-180°	1649.0	19.2
0°-180°	8587.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	897	897	897	897	897	
5°	874	937	1056	1194	1237	81
15°	655	1208	2036	2468	2546	182
25°	418	1370	2425	2532	2535	193
35°	283	1309	2284	2414	2509	176
45°	193	1044	2019	2313	2416	149
55°	138	663	1713	1990	2044	126
65°	110	352	1272	1430	1450	109
75°	81	216	698	767	770	85
85°	29	66	173	190	193	31
90°	2	5	13	6	6	3
95°	16	64	214	110	75	18
105°	59	89	360	547	510	62
115°	104	127	289	576	657	103
125°	145	163	262	444	523	129
135°	173	190	254	358	406	134
145°	201	213	251	306	329	126
155°	227	233	251	276	284	104
165°	245	248	251	261	264	69
175°	254	254	253	256	256	24
180°	254	254	254	254	254	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8	896.8
2.5°	896.8	896.8	902.6	905.5	911.2	914.1	919.9	925.7	943.0	945.9	951.6
5°	873.7	885.3	922.8	937.2	977.6	1032.4	1055.5	1092.9	1170.7	1193.8	1208.2
7.5°	839.1	865.1	957.4	980.5	1081.4	1225.6	1286.1	1366.9	1490.8	1551.4	1600.5
10°	784.4	839.1	1003.5	1058.3	1222.7	1441.8	1554.3	1666.8	1854.2	1937.9	1969.6
12.5°	723.8	813.2	1052.6	1127.5	1364.0	1684.1	1819.6	1943.6	2157.0	2269.5	2286.8
15°	654.6	775.7	1098.7	1208.2	1513.9	1885.9	2035.9	2188.7	2387.7	2468.4	2488.6
17.5°	594.0	746.9	1141.9	1257.3	1629.3	2067.6	2220.4	2347.3	2508.8	2563.6	2578.0
20°	519.0	700.8	1170.7	1320.7	1750.4	2200.3	2347.3	2445.3	2555.0	2589.6	2595.3
22.5°	464.3	651.7	1188.1	1343.8	1831.1	2281.0	2405.0	2482.8	2557.8	2569.4	2572.3
25°	418.2	596.9	1185.2	1369.8	1900.4	2330.0	2425.2	2482.8	2526.1	2531.9	2531.9
27.5°	374.9	536.3	1173.6	1375.6	1952.3	2341.6	2416.5	2456.9	2477.1	2488.6	2488.6
30°	337.4	478.7	1144.8	1364.0	1975.4	2330.0	2390.5	2410.7	2430.9	2448.2	2456.9
32.5°	308.6	423.9	1101.6	1340.9	1978.2	2301.2	2344.4	2356.0	2384.8	2425.2	2439.6
35°	282.6	369.1	1052.6	1309.2	1960.9	2255.1	2283.9	2295.4	2353.1	2413.6	2433.8
37.5°	256.6	328.7	989.1	1254.4	1935.0	2200.3	2220.4	2240.6	2330.0	2402.1	2425.2
40°	230.7	294.1	914.1	1193.8	1894.6	2133.9	2151.2	2182.9	2301.2	2384.8	2407.8
42.5°	210.5	265.3	833.4	1130.4	1842.7	2058.9	2084.9	2131.0	2266.6	2356.0	2381.9
45°	193.2	236.4	746.9	1043.9	1776.3	1981.1	2018.6	2082.0	2226.2	2312.8	2335.8
47.5°	175.9	216.2	657.5	954.5	1704.3	1903.2	1952.3	2024.4	2171.4	2255.1	2275.3
50°	161.5	196.1	568.1	859.3	1626.4	1819.6	1877.3	1952.3	2102.2	2180.1	2206.0
52.5°	150.0	178.7	484.4	764.2	1537.0	1733.1	1799.4	1877.3	2018.6	2093.5	2110.8
55°	138.4	164.4	412.4	663.3	1444.7	1640.8	1712.9	1787.9	1926.3	1989.8	2001.3
57.5°	132.7	152.8	351.8	568.1	1346.7	1537.0	1617.8	1687.0	1816.7	1865.7	1877.3
60°	124.0	144.2	305.7	487.3	1240.0	1438.9	1508.1	1577.4	1687.0	1727.3	1736.0
62.5°	115.4	138.4	271.1	409.5	1130.4	1323.6	1392.8	1456.2	1548.5	1577.4	1588.9
65°	109.6	132.7	245.1	351.8	1018.0	1202.5	1271.7	1326.5	1401.5	1430.3	1436.0
67.5°	103.8	126.9	224.9	302.8	905.5	1081.4	1133.2	1185.2	1242.9	1271.7	1274.6
70°	95.2	121.2	207.6	268.2	790.1	943.0	986.2	1041.0	1087.2	1101.6	1110.2
72.5°	89.4	112.5	196.1	242.2	671.9	810.3	850.7	882.4	922.8	937.2	937.2
75°	80.8	101.0	184.5	216.2	550.8	663.3	697.9	729.6	761.3	767.1	758.5
77.5°	72.1	89.4	158.6	181.6	429.7	524.8	553.6	571.0	596.9	602.7	605.6
80°	60.6	77.9	124.0	141.3	311.4	386.4	406.6	421.1	444.1	444.1	449.9
82.5°	46.2	60.6	89.4	101.0	210.5	265.3	282.6	291.2	305.7	305.7	305.7
85°	28.8	37.5	57.7	66.3	126.9	161.5	173.0	175.9	187.4	190.3	190.3
87.5°	14.4	20.2	37.5	40.4	66.3	83.7	83.7	89.4	89.4	86.5	83.7
90°	1.7	3.1	4.4	4.8	7.5	11.2	13.0	11.5	8.6	6.5	6.5
92.5°	6.8	18.4	30.1	33.0	46.3	64.2	73.0	64.0	46.0	32.5	31.2
95°	16.4	37.6	58.9	64.2	113.9	180.3	213.5	190.5	144.6	110.1	106.2
97.5°	28.4	47.1	65.8	70.5	153.4	264.1	319.5	305.0	276.0	254.2	246.7
100°	37.6	54.5	71.5	75.7	167.8	290.6	352.0	353.2	355.3	356.9	348.0
102.5°	45.4	61.3	77.1	81.0	174.5	299.1	361.3	379.8	416.8	444.6	437.0
105°	58.7	72.2	85.6	88.9	179.4	300.0	360.3	401.8	484.8	547.0	542.9
107.5°	72.3	84.9	97.4	100.5	180.3	286.6	339.8	397.6	513.4	600.2	601.3
110°	81.6	92.9	104.2	107.0	178.9	274.8	322.7	387.4	516.8	613.9	618.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	90.7	101.4	112.1	114.8	179.0	264.5	307.2	373.4	505.8	605.2	611.7
115°	104.3	114.2	124.1	126.6	180.6	252.6	288.6	352.4	480.0	575.7	584.7
117.5°	117.7	126.8	135.8	138.1	184.0	245.2	275.8	333.4	448.5	534.9	544.9
120°	125.6	134.1	142.6	144.8	186.8	242.7	270.7	323.2	428.5	507.4	517.1
122.5°	133.3	141.9	150.5	152.6	190.7	241.4	266.8	314.1	408.9	479.9	489.6
125°	145.1	152.9	160.7	162.6	196.0	240.3	262.5	302.7	383.2	443.6	452.4
127.5°	154.6	162.5	170.4	172.4	201.2	239.7	258.9	293.5	362.6	414.4	421.9
130°	159.8	168.3	176.7	178.8	205.1	240.1	257.6	288.3	349.8	395.9	402.8
132.5°	165.0	173.6	182.0	184.1	208.2	240.3	256.4	283.9	338.9	380.2	386.5
135°	172.9	180.6	188.4	190.3	211.6	240.1	254.3	277.4	323.5	358.1	363.4
137.5°	180.9	188.5	196.2	198.2	216.7	241.5	254.0	273.5	312.4	341.7	346.0
140°	187.5	194.6	201.7	203.5	219.9	241.8	252.8	269.7	303.3	328.5	332.6
142.5°	192.7	199.2	205.8	207.4	222.5	242.7	252.8	267.6	297.2	319.3	322.8
145°	200.6	206.3	211.9	213.3	226.0	242.7	251.1	263.2	287.4	305.5	308.2
147.5°	208.4	213.9	219.5	220.8	230.9	244.4	251.1	260.6	279.6	293.9	296.1
150°	213.5	218.5	223.5	224.8	233.5	245.2	251.1	259.1	275.2	287.2	289.0
152.5°	218.8	222.5	226.4	227.3	235.2	245.8	251.1	257.9	271.6	281.9	283.3
155°	226.6	229.4	232.3	232.9	239.0	247.1	251.1	256.5	267.4	275.6	276.5
157.5°	232.4	235.2	237.9	238.6	242.7	248.3	251.1	255.3	263.8	270.2	270.8
160°	236.3	238.5	240.6	241.1	244.4	248.9	251.1	254.7	262.0	267.4	267.8
162.5°	240.3	241.9	243.4	243.8	246.2	249.5	251.1	254.2	260.3	264.9	265.2
165°	244.6	246.1	247.5	247.8	249.0	250.4	251.1	253.3	257.6	261.0	261.3
167.5°	248.5	249.2	249.9	250.1	251.0	252.2	252.8	254.2	257.1	259.3	259.4
170°	251.1	251.8	252.4	252.6	252.7	252.8	252.8	254.2	257.1	259.3	259.3
172.5°	252.4	252.6	252.8	252.8	252.8	252.8	252.8	253.9	256.2	257.9	257.7
175°	254.3	254.3	254.3	254.3	253.8	253.1	252.8	253.5	254.9	256.0	256.0
177.5°	254.3	254.3	254.3	254.3	253.9	253.4	253.1	253.7	254.8	255.7	255.5
180°	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3	254.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	896.8	896.8
2.5°	957.4	951.6
5°	1231.3	1237.1
7.5°	1658.1	1655.3
10°	2061.8	2087.8
12.5°	2356.0	2361.7
15°	2534.8	2546.3
17.5°	2604.0	2606.9
20°	2606.9	2601.1
22.5°	2575.2	2569.4
25°	2537.7	2534.8
27.5°	2503.0	2505.9
30°	2488.6	2497.3
32.5°	2488.6	2503.0
35°	2494.4	2508.8
37.5°	2491.5	2508.8
40°	2480.0	2500.2
42.5°	2448.2	2462.7
45°	2399.2	2416.5
47.5°	2335.8	2347.3
50°	2255.1	2266.6
52.5°	2154.1	2157.0
55°	2033.0	2044.5
57.5°	1903.2	1906.1
60°	1759.0	1767.7
62.5°	1606.2	1606.2
65°	1444.7	1450.5
67.5°	1277.5	1291.9
70°	1107.3	1110.2
72.5°	940.1	940.1
75°	767.1	770.0
77.5°	602.7	602.7
80°	447.0	449.9
82.5°	308.6	314.3
85°	193.2	193.2
87.5°	89.4	80.8
90°	6.5	6.5
92.5°	26.0	20.8
95°	90.6	74.9
97.5°	216.9	187.2
100°	312.6	277.2
102.5°	406.7	376.3
105°	526.6	510.3
107.5°	605.2	609.1
110°	635.1	652.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	637.8	663.9
115°	620.9	657.1
117.5°	585.1	625.2
120°	556.1	595.1
122.5°	528.0	566.4
125°	487.9	523.3
127.5°	451.7	481.6
130°	430.4	458.0
132.5°	411.2	435.9
135°	384.7	406.0
137.5°	363.5	380.9
140°	348.9	365.3
142.5°	336.9	350.9
145°	318.8	329.4
147.5°	304.8	313.7
150°	296.2	303.3
152.5°	288.7	294.0
155°	280.1	283.6
157.5°	273.3	275.8
160°	269.2	270.7
162.5°	266.6	268.0
165°	262.8	264.2
167.5°	260.0	260.6
170°	259.3	259.3
172.5°	257.2	256.7
175°	256.0	256.0
177.5°	254.9	254.3
180°	254.3	254.3



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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	8.38	9.69	9.01	10.34	11.08	21.56	22.86	22.19	23.51	24.26
	3H	9.12	10.30	9.76	10.96	11.74	23.43	24.61	24.08	25.27	26.05
	4H	9.44	10.55	10.10	11.22	12.02	24.10	25.21	24.76	25.88	26.68
	6H	9.71	10.74	10.39	11.42	12.24	24.55	25.58	25.23	26.26	27.07
	8H	9.79	10.78	10.48	11.48	12.29	24.68	25.67	25.37	26.37	27.19
	12H	9.83	10.77	10.52	11.46	12.31	24.77	25.71	25.46	26.41	27.25
4H	2H	15.65	16.76	16.32	17.43	18.23	21.89	23.00	22.55	23.67	24.47
	3H	17.26	18.19	17.94	18.90	19.72	23.97	24.91	24.65	25.62	26.43
	4H	17.37	18.22	18.07	18.93	19.78	24.76	25.61	25.46	26.32	27.17
	6H	17.41	18.15	18.12	18.89	19.74	25.32	26.07	26.04	26.80	27.66
	8H	17.40	18.09	18.12	18.83	19.69	25.50	26.19	26.22	26.93	27.79
	12H	17.37	18.00	18.12	18.76	19.63	25.61	26.24	26.36	27.00	27.87
8H	4H	18.85	19.55	19.57	20.28	21.15	24.86	25.55	25.58	26.29	27.15
	6H	19.11	19.69	19.87	20.47	21.34	25.51	26.08	26.26	26.86	27.73
	8H	19.14	19.66	19.90	20.43	21.32	25.73	26.25	26.50	27.03	27.91
	12H	19.13	19.59	19.90	20.35	21.30	25.90	26.35	26.67	27.12	28.07
12H	4H	19.02	19.64	19.76	20.40	21.28	24.83	25.46	25.57	26.22	27.09
	6H	19.38	19.90	20.14	20.68	21.56	25.49	26.01	26.26	26.79	27.67
	8H	19.47	19.93	20.24	20.70	21.64	25.75	26.20	26.51	26.97	27.91