

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: P936538

Luminaire Tested: SQ4-FB-025U-125D-92765-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936538
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-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

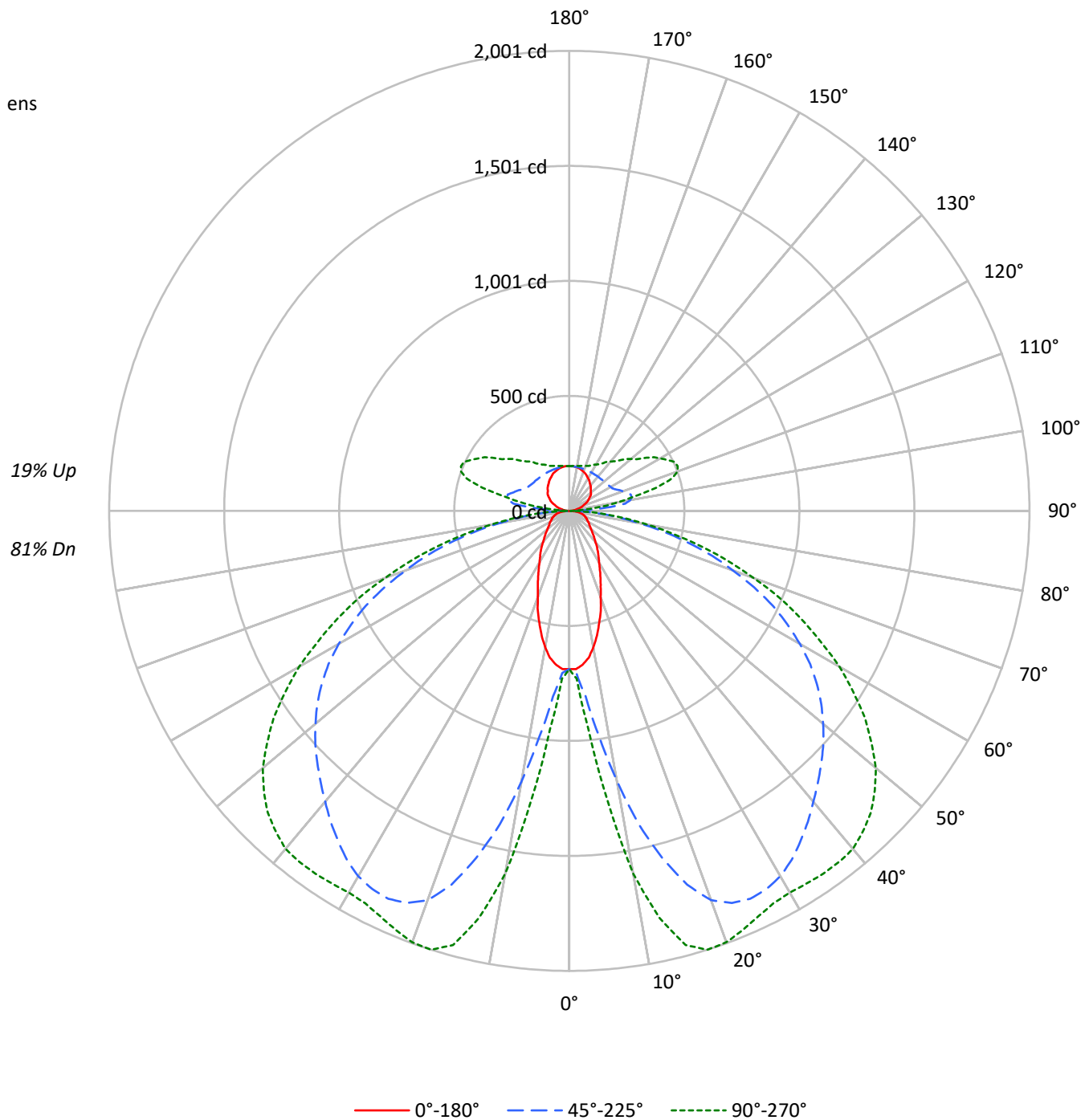
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6591.7 lumens
Efficiency: N/A
Efficacy: 88.6 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°	4259	4259	4259
5°	4159	4921	5724
10°	3771	7171	9490
15°	3204	9367	11459
20°	2607	10852	11678
25°	2174	11353	11441
30°	1832	11422	11419
35°	1620	11229	11715
40°	1410	10980	12020
45°	1276	10796	12067
50°	1169	10630	11867
55°	1119	10389	11341
60°	1144	9928	10511
65°	1190	9230	9369
70°	1264	8043	7915
75°	1395	6553	6177
80°	1513	4539	4162
85°	1318	2404	2130

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12067 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.4
10°-20°	394.7	6.0
20°-30°	690.3	10.5
30°-40°	888.7	13.5
40°-50°	992.6	15.1
50°-60°	950.7	14.4
60°-70°	753.4	11.4
70°-80°	443.0	6.7
80°-90°	123.8	1.9
90°-100°	95.1	1.4
100°-110°	250.2	3.8
110°-120°	259.4	3.9
120°-130°	208.1	3.2
130°-140°	163.3	2.5
140°-150°	125.3	1.9
150°-160°	90.2	1.4
160°-170°	55.2	0.8
170°-180°	18.7	0.3
0°-30°	1174.1	17.8
0°-40°	2062.7	31.3
0°-60°	4006.0	60.8
0°-90°	5326.3	80.8
90°-120°	604.7	9.2
90°-150°	1101.3	16.7
90°-180°	1265.0	19.2
0°-180°	6591.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	688	688	688	688	688	
5°	671	719	810	916	950	62
15°	502	928	1563	1895	1955	140
25°	321	1051	1862	1944	1946	148
35°	217	1005	1753	1853	1926	135
45°	148	801	1549	1775	1855	115
55°	106	509	1315	1527	1569	97
65°	84	270	976	1098	1113	83
75°	62	166	536	589	591	65
85°	22	51	133	146	148	23
90°	1	4	10	5	5	3
95°	13	49	164	84	58	14
105°	45	68	276	420	392	48
115°	80	97	222	442	504	79
125°	111	125	202	340	402	99
135°	133	146	195	275	312	103
145°	154	164	193	234	253	96
155°	174	179	193	212	218	80
165°	188	190	193	200	203	53
175°	195	195	194	197	197	19
180°	195	195	195	195	195	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4	688.4
2.5°	688.4	688.4	692.8	695.0	699.5	701.7	706.1	710.5	723.8	726.1	730.5
5°	670.7	679.6	708.4	719.4	750.4	792.4	810.1	838.9	898.7	916.4	927.5
7.5°	644.2	664.1	734.9	752.6	830.1	940.8	987.2	1049.2	1144.4	1190.8	1228.5
10°	602.1	644.2	770.3	812.4	938.6	1106.8	1193.1	1279.4	1423.3	1487.5	1511.8
12.5°	555.6	624.2	807.9	865.5	1047.0	1292.7	1396.7	1491.9	1655.7	1742.1	1755.3
15°	502.5	595.4	843.3	927.5	1162.1	1447.7	1562.8	1680.1	1832.8	1894.8	1910.3
17.5°	456.0	573.3	876.6	965.1	1250.7	1587.1	1704.4	1801.8	1925.8	1967.8	1978.9
20°	398.4	537.9	898.7	1013.8	1343.6	1689.0	1801.8	1877.1	1961.2	1987.7	1992.2
22.5°	356.4	500.3	912.0	1031.5	1405.6	1750.9	1846.1	1905.8	1963.4	1972.3	1974.5
25°	321.0	458.2	909.8	1051.4	1458.7	1788.5	1861.6	1905.8	1939.1	1943.5	1943.5
27.5°	287.8	411.7	900.9	1055.9	1498.6	1797.3	1854.9	1885.9	1901.4	1910.3	1910.3
30°	259.0	367.5	878.7	1047.0	1516.3	1788.5	1835.0	1850.5	1866.0	1879.3	1885.9
32.5°	236.8	325.4	845.5	1029.3	1518.5	1766.4	1799.6	1808.4	1830.6	1861.6	1872.6
35°	217.0	283.3	807.9	1004.9	1505.2	1731.0	1753.1	1761.9	1806.2	1852.7	1868.2
37.5°	197.0	252.4	759.3	962.9	1485.2	1689.0	1704.4	1719.9	1788.5	1843.8	1861.6
40°	177.1	225.8	701.7	916.4	1454.3	1638.0	1651.3	1675.6	1766.4	1830.6	1848.3
42.5°	161.6	203.6	639.7	867.7	1414.4	1580.5	1600.4	1635.8	1739.8	1808.4	1828.4
45°	148.3	181.5	573.3	801.3	1363.5	1520.7	1549.4	1598.2	1708.8	1775.3	1793.0
47.5°	135.0	166.0	504.6	732.7	1308.2	1460.9	1498.6	1553.9	1666.8	1731.0	1746.5
50°	123.9	150.5	436.1	659.6	1248.4	1396.7	1441.0	1498.6	1613.7	1673.4	1693.3
52.5°	115.1	137.3	371.8	586.6	1179.8	1330.3	1381.2	1441.0	1549.4	1607.0	1620.3
55°	106.2	126.2	316.5	509.1	1109.0	1259.5	1314.9	1372.4	1478.6	1527.4	1536.2
57.5°	101.9	117.3	270.1	436.1	1033.7	1179.8	1241.8	1294.9	1394.6	1432.1	1441.0
60°	95.1	110.7	234.7	374.1	951.8	1104.5	1157.7	1210.8	1294.9	1325.9	1332.6
62.5°	88.5	106.2	208.1	314.3	867.7	1016.0	1069.1	1117.9	1188.7	1210.8	1219.6
65°	84.2	101.9	188.2	270.1	781.3	923.0	976.2	1018.2	1075.7	1097.9	1102.3
67.5°	79.7	97.4	172.7	232.4	695.0	830.1	869.9	909.8	954.0	976.2	978.4
70°	73.1	93.0	159.4	205.9	606.5	723.8	757.0	799.0	834.5	845.5	852.2
72.5°	68.6	86.3	150.5	185.9	515.7	622.0	653.0	677.3	708.4	719.4	719.4
75°	62.0	77.4	141.7	166.0	422.8	509.1	535.7	560.0	584.3	588.8	582.2
77.5°	55.4	68.6	121.7	139.4	329.8	402.9	425.0	438.3	458.2	462.6	464.9
80°	46.5	59.7	95.1	108.5	239.0	296.6	312.1	323.2	340.9	340.9	345.3
82.5°	35.4	46.5	68.6	77.4	161.6	203.6	217.0	223.6	234.7	234.7	234.7
85°	22.1	28.8	44.3	50.9	97.4	123.9	132.8	135.0	143.9	146.1	146.1
87.5°	11.1	15.5	28.8	31.0	50.9	64.2	64.2	68.6	68.6	66.4	64.2
90°	1.3	2.4	3.4	3.7	5.8	8.5	9.9	8.8	6.6	5.0	5.0
92.5°	5.2	14.1	23.0	25.3	35.6	49.3	56.1	49.1	35.2	24.9	23.9
95°	12.6	28.9	45.2	49.3	87.5	138.4	163.9	146.2	110.9	84.5	81.5
97.5°	21.7	36.1	50.5	54.1	117.8	202.7	245.2	234.1	211.8	195.1	189.4
100°	28.9	41.9	54.9	58.2	128.9	223.2	270.2	271.0	272.7	273.9	267.1
102.5°	34.9	47.1	59.2	62.3	133.9	229.5	277.3	291.5	319.9	341.3	335.5
105°	45.1	55.4	65.7	68.3	137.7	230.2	276.5	308.4	372.1	419.9	416.7
107.5°	55.5	65.1	74.7	77.2	138.4	220.0	260.8	305.3	394.2	460.8	461.6
110°	62.6	71.3	80.0	82.1	137.3	210.9	247.7	297.5	396.8	471.2	474.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	69.6	77.9	86.1	88.2	137.3	203.0	235.8	286.6	388.3	464.5	469.5
115°	80.1	87.7	95.3	97.2	138.7	193.9	221.5	270.5	368.4	441.9	448.8
117.5°	90.4	97.3	104.2	106.0	141.2	188.2	211.7	255.9	344.3	410.6	418.2
120°	96.4	103.0	109.4	111.1	143.4	186.4	207.8	248.2	328.9	389.5	397.0
122.5°	102.3	108.9	115.5	117.1	146.3	185.3	204.8	241.1	313.8	368.4	375.8
125°	111.4	117.4	123.4	124.9	150.4	184.5	201.5	232.4	294.2	340.5	347.3
127.5°	118.7	124.7	130.8	132.3	154.4	184.0	198.7	225.2	278.4	318.1	323.9
130°	122.6	129.1	135.6	137.3	157.4	184.3	197.7	221.3	268.5	303.9	309.2
132.5°	126.7	133.2	139.7	141.4	159.8	184.5	196.8	217.9	260.2	291.9	296.6
135°	132.7	138.7	144.6	146.1	162.5	184.3	195.2	213.0	248.4	274.9	279.0
137.5°	138.9	144.8	150.6	152.1	166.4	185.5	195.0	210.0	239.9	262.3	265.6
140°	144.0	149.4	154.8	156.2	168.8	185.7	194.0	206.9	232.8	252.2	255.3
142.5°	147.9	152.9	157.9	159.1	170.7	186.3	194.0	205.4	228.1	245.1	247.8
145°	153.9	158.3	162.6	163.8	173.4	186.3	192.7	202.0	220.5	234.5	236.5
147.5°	159.9	164.2	168.5	169.5	177.3	187.6	192.7	200.0	214.6	225.6	227.3
150°	163.9	167.7	171.6	172.6	179.3	188.3	192.7	198.9	211.2	220.5	221.8
152.5°	168.0	170.8	173.8	174.5	180.6	188.7	192.7	198.0	208.5	216.4	217.5
155°	174.0	176.2	178.3	178.9	183.5	189.7	192.7	196.9	205.3	211.6	212.3
157.5°	178.4	180.5	182.6	183.1	186.4	190.6	192.7	195.9	202.5	207.4	207.9
160°	181.5	183.1	184.7	185.1	187.7	191.1	192.7	195.5	201.1	205.3	205.5
162.5°	184.4	185.7	186.9	187.2	189.1	191.5	192.7	195.1	199.8	203.4	203.6
165°	187.7	188.8	189.9	190.2	191.1	192.2	192.7	194.4	197.8	200.3	200.6
167.5°	190.7	191.2	191.8	191.9	192.6	193.6	194.0	195.2	197.3	199.0	199.1
170°	192.7	193.2	193.8	193.9	193.9	194.0	194.0	195.2	197.3	199.0	199.0
172.5°	193.8	193.9	194.0	194.0	194.0	194.0	194.0	194.9	196.6	198.0	197.9
175°	195.2	195.2	195.2	195.2	194.8	194.3	194.0	194.6	195.7	196.6	196.6
177.5°	195.2	195.2	195.2	195.2	194.9	194.5	194.3	194.7	195.6	196.3	196.2
180°	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2	195.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	688.4	688.4
2.5°	734.9	730.5
5°	945.2	949.6
7.5°	1272.8	1270.6
10°	1582.7	1602.6
12.5°	1808.4	1812.9
15°	1945.7	1954.6
17.5°	1998.8	2001.1
20°	2001.1	1996.6
22.5°	1976.6	1972.3
25°	1947.9	1945.7
27.5°	1921.4	1923.5
30°	1910.3	1916.9
32.5°	1910.3	1921.4
35°	1914.7	1925.8
37.5°	1912.5	1925.8
40°	1903.7	1919.1
42.5°	1879.3	1890.4
45°	1841.6	1854.9
47.5°	1793.0	1801.8
50°	1731.0	1739.8
52.5°	1653.5	1655.7
55°	1560.5	1569.4
57.5°	1460.9	1463.1
60°	1350.3	1356.9
62.5°	1233.0	1233.0
65°	1109.0	1113.4
67.5°	980.6	991.7
70°	850.0	852.2
72.5°	721.6	721.6
75°	588.8	591.0
77.5°	462.6	462.6
80°	343.1	345.3
82.5°	236.8	241.3
85°	148.3	148.3
87.5°	68.6	62.0
90°	5.0	5.0
92.5°	19.9	16.0
95°	69.5	57.6
97.5°	166.6	143.7
100°	240.0	212.8
102.5°	312.2	288.9
105°	404.3	391.7
107.5°	464.5	467.6
110°	487.6	500.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	489.6	509.6
115°	476.6	504.4
117.5°	449.1	479.9
120°	426.9	456.9
122.5°	405.3	434.8
125°	374.5	401.7
127.5°	346.8	369.7
130°	330.4	351.6
132.5°	315.6	334.6
135°	295.3	311.7
137.5°	279.1	292.4
140°	267.8	280.4
142.5°	258.6	269.4
145°	244.7	252.9
147.5°	234.1	240.8
150°	227.3	232.8
152.5°	221.6	225.8
155°	215.0	217.7
157.5°	209.8	211.7
160°	206.7	207.8
162.5°	204.7	205.7
165°	201.7	202.8
167.5°	199.6	200.0
170°	199.0	199.0
172.5°	197.4	197.1
175°	196.6	196.6
177.5°	195.7	195.2
180°	195.2	195.2



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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	8.46	9.76	9.09	10.41	11.16	21.62	22.93	22.26	23.58	24.32
	3H	9.20	10.37	9.84	11.03	11.82	23.49	24.67	24.13	25.33	26.11
	4H	9.51	10.63	10.18	11.30	12.09	24.15	25.26	24.81	25.94	26.73
	6H	9.79	10.82	10.47	11.50	12.31	24.60	25.63	25.28	26.31	27.12
	8H	9.87	10.85	10.56	11.56	12.37	24.73	25.72	25.42	26.42	27.23
	12H	9.90	10.84	10.60	11.54	12.38	24.81	25.75	25.51	26.45	27.29
4H	2H	15.72	16.83	16.38	17.50	18.30	21.95	23.06	22.62	23.74	24.53
	3H	17.32	18.26	18.00	18.97	19.78	24.03	24.97	24.71	25.68	26.49
	4H	17.44	18.29	18.14	19.00	19.85	24.81	25.66	25.51	26.38	27.22
	6H	17.48	18.22	18.19	18.96	19.81	25.37	26.12	26.09	26.85	27.71
	8H	17.46	18.16	18.19	18.89	19.76	25.54	26.24	26.27	26.97	27.84
	12H	17.44	18.07	18.19	18.83	19.70	25.66	26.28	26.40	27.04	27.92
8H	4H	18.92	19.61	19.64	20.35	21.21	24.91	25.60	25.63	26.34	27.21
	6H	19.18	19.76	19.93	20.54	21.40	25.56	26.13	26.31	26.91	27.78
	8H	19.20	19.72	19.97	20.50	21.38	25.78	26.30	26.54	27.07	27.96
	12H	19.19	19.65	19.96	20.42	21.36	25.94	26.40	26.71	27.17	28.11
12H	4H	19.08	19.71	19.82	20.47	21.34	24.89	25.51	25.63	26.27	27.14
	6H	19.44	19.96	20.21	20.74	21.62	25.54	26.06	26.31	26.84	27.72
	8H	19.53	19.99	20.30	20.76	21.70	25.79	26.25	26.56	27.02	27.96