

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: P936561

Luminaire Tested: SQ4-FB-025U-125D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936561
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-93050-1D-UNV-STD-W-6-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

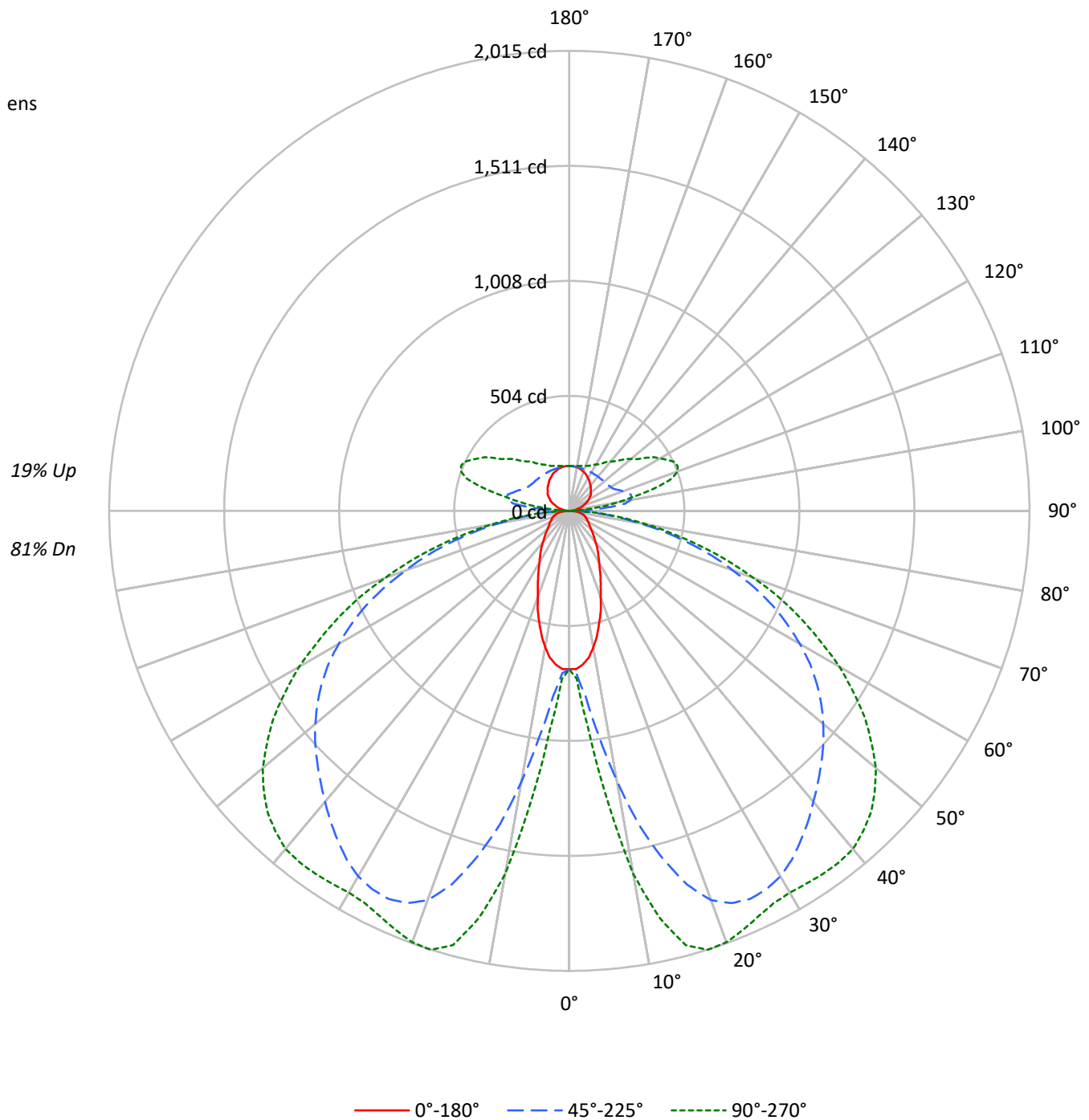
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6639.0 lumens
Efficiency: N/A
Efficacy: 89.2 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°	4289	4289	4289
5°	4189	4956	5766
10°	3798	7223	9558
15°	3227	9434	11541
20°	2626	10930	11762
25°	2190	11435	11523
30°	1846	11504	11502
35°	1631	11310	11799
40°	1421	11059	12106
45°	1286	10874	12153
50°	1178	10707	11952
55°	1127	10463	11423
60°	1152	9999	10586
65°	1198	9296	9437
70°	1273	8102	7973
75°	1404	6599	6221
80°	1523	4571	4192
85°	1330	2422	2146

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12153 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.7	1.4
10°-20°	397.5	6.0
20°-30°	695.3	10.5
30°-40°	895.0	13.5
40°-50°	999.7	15.1
50°-60°	957.5	14.4
60°-70°	758.8	11.4
70°-80°	446.2	6.7
80°-90°	124.7	1.9
90°-100°	95.8	1.4
100°-110°	252.0	3.8
110°-120°	261.2	3.9
120°-130°	209.6	3.2
130°-140°	164.4	2.5
140°-150°	126.2	1.9
150°-160°	90.9	1.4
160°-170°	55.6	0.8
170°-180°	18.8	0.3
0°-30°	1182.5	17.8
0°-40°	2077.5	31.3
0°-60°	4034.8	60.8
0°-90°	5364.5	80.8
90°-120°	609.0	9.2
90°-150°	1109.2	16.7
90°-180°	1275.0	19.2
0°-180°	6639.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	693	693	693	693	693	
5°	676	725	816	923	956	62
15°	506	934	1574	1908	1969	141
25°	323	1059	1875	1958	1960	149
35°	218	1012	1766	1866	1940	136
45°	149	807	1561	1788	1868	116
55°	107	513	1324	1538	1581	98
65°	85	272	983	1106	1121	84
75°	62	167	540	593	595	65
85°	22	51	134	147	149	24
90°	1	4	10	5	5	3
95°	13	50	165	85	58	14
105°	45	69	278	423	394	48
115°	81	98	223	445	508	80
125°	112	126	203	343	404	100
135°	134	147	197	277	314	103
145°	155	165	194	236	255	97
155°	175	180	194	213	219	81
165°	189	192	194	202	204	53
175°	197	197	195	198	198	19
180°	197	197	197	197	197	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3	693.3
2.5°	693.3	693.3	697.8	700.0	704.5	706.8	711.2	715.6	729.0	731.3	735.8
5°	675.5	684.5	713.4	724.6	755.8	798.1	815.9	844.9	905.2	923.0	934.2
7.5°	648.8	668.8	740.1	758.0	836.1	947.5	994.3	1056.8	1152.6	1199.4	1237.4
10°	606.4	648.8	775.8	818.2	945.3	1114.7	1201.7	1288.6	1433.6	1498.2	1522.7
12.5°	559.6	628.7	813.7	871.7	1054.5	1302.0	1406.8	1502.6	1667.6	1754.6	1767.9
15°	506.1	599.7	849.4	934.2	1170.4	1458.1	1574.0	1692.1	1846.0	1908.4	1924.0
17.5°	459.3	577.4	882.9	972.0	1259.7	1598.5	1716.6	1814.7	1939.6	1982.0	1993.1
20°	401.3	541.7	905.2	1021.1	1353.3	1701.1	1814.7	1890.5	1975.3	2002.0	2006.5
22.5°	359.0	503.9	918.5	1038.9	1415.7	1763.5	1859.4	1919.5	1977.5	1986.5	1988.6
25°	323.3	461.5	916.3	1059.0	1469.2	1801.4	1875.0	1919.5	1953.0	1957.5	1957.5
27.5°	289.8	414.6	907.4	1063.4	1509.4	1810.3	1868.2	1899.5	1915.0	1924.0	1924.0
30°	260.9	370.1	885.1	1054.5	1527.2	1801.4	1848.2	1863.8	1879.4	1892.8	1899.5
32.5°	238.5	327.7	851.6	1036.7	1529.4	1779.1	1812.5	1821.4	1843.7	1875.0	1886.1
35°	218.5	285.4	813.7	1012.2	1516.0	1743.4	1765.7	1774.6	1819.2	1866.0	1881.7
37.5°	198.4	254.2	764.7	969.8	1495.9	1701.1	1716.6	1732.3	1801.4	1857.1	1875.0
40°	178.4	227.4	706.8	923.0	1464.7	1649.8	1663.2	1687.7	1779.1	1843.7	1861.6
42.5°	162.7	205.1	644.3	873.9	1424.6	1591.8	1611.9	1647.5	1752.3	1821.4	1841.5
45°	149.4	182.8	577.4	807.1	1373.3	1531.6	1560.6	1609.7	1721.1	1788.0	1805.9
47.5°	136.0	167.2	508.3	737.9	1317.6	1471.4	1509.4	1565.0	1678.8	1743.4	1759.1
50°	124.8	151.6	439.2	664.3	1257.4	1406.8	1451.4	1509.4	1625.3	1685.5	1705.5
52.5°	115.9	138.2	374.5	590.8	1188.3	1339.8	1391.1	1451.4	1560.6	1618.5	1632.0
55°	107.0	127.1	318.8	512.8	1116.9	1268.5	1324.3	1382.3	1489.2	1538.3	1547.2
57.5°	102.6	118.1	272.0	439.2	1041.1	1188.3	1250.7	1304.2	1404.6	1442.4	1451.4
60°	95.8	111.5	236.4	376.8	958.7	1112.5	1166.0	1219.5	1304.2	1335.5	1342.1
62.5°	89.1	107.0	209.6	316.5	873.9	1023.3	1076.8	1125.9	1197.2	1219.5	1228.4
65°	84.8	102.6	189.5	272.0	787.0	929.7	983.2	1025.5	1083.5	1105.8	1110.3
67.5°	80.3	98.1	173.9	234.1	700.0	836.1	876.2	916.3	960.9	983.2	985.5
70°	73.6	93.6	160.6	207.4	610.9	729.0	762.5	804.8	840.5	851.6	858.4
72.5°	69.1	87.0	151.6	187.3	519.4	626.5	657.7	682.2	713.4	724.6	724.6
75°	62.4	78.0	142.7	167.2	425.8	512.8	539.5	564.0	588.5	593.0	586.4
77.5°	55.8	69.1	122.6	140.4	332.2	405.8	428.1	441.4	461.5	465.9	468.2
80°	46.8	60.2	95.8	109.3	240.7	298.7	314.3	325.5	343.3	343.3	347.8
82.5°	35.7	46.8	69.1	78.0	162.7	205.1	218.5	225.2	236.4	236.4	236.4
85°	22.3	29.0	44.6	51.3	98.1	124.8	133.8	136.0	144.9	147.1	147.1
87.5°	11.2	15.6	29.0	31.2	51.3	64.6	64.6	69.1	69.1	66.9	64.6
90°	1.3	2.4	3.4	3.7	5.8	8.6	10.0	8.9	6.7	5.0	5.0
92.5°	5.3	14.2	23.2	25.5	35.8	49.6	56.5	49.4	35.5	25.0	24.1
95°	12.6	29.1	45.5	49.6	88.1	139.4	165.0	147.3	111.7	85.1	82.1
97.5°	21.9	36.4	50.9	54.5	118.7	204.2	247.0	235.7	213.3	196.5	190.8
100°	29.1	42.2	55.3	58.6	129.8	224.8	272.2	273.0	274.6	275.9	269.0
102.5°	35.1	47.4	59.6	62.7	134.9	231.2	279.3	293.6	322.2	343.8	337.9
105°	45.4	55.8	66.1	68.8	138.7	231.9	278.5	310.6	374.8	422.9	419.7
107.5°	55.9	65.6	75.3	77.7	139.4	221.6	262.7	307.5	397.0	464.1	464.9
110°	63.1	71.8	80.5	82.7	138.3	212.5	249.5	299.6	399.6	474.6	477.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	70.1	78.4	86.7	88.8	138.3	204.5	237.5	288.7	391.1	467.9	472.9
115°	80.6	88.4	96.0	97.9	139.6	195.2	223.1	272.4	371.1	445.0	452.1
117.5°	91.1	98.0	105.0	106.7	142.2	189.5	213.3	257.8	346.8	413.5	421.2
120°	97.1	103.7	110.2	111.9	144.4	187.7	209.3	250.0	331.3	392.3	399.9
122.5°	103.0	109.7	116.3	118.0	147.4	186.6	206.2	242.9	316.1	371.1	378.5
125°	112.2	118.2	124.3	125.8	151.5	185.8	203.0	234.1	296.3	343.0	349.8
127.5°	119.5	125.6	131.7	133.2	155.5	185.3	200.2	226.9	280.4	320.4	326.2
130°	123.5	130.1	136.6	138.2	158.5	185.6	199.1	222.9	270.4	306.1	311.4
132.5°	127.6	134.2	140.7	142.4	161.0	185.8	198.2	219.5	262.1	294.0	298.7
135°	133.7	139.6	145.6	147.1	163.6	185.7	196.7	214.5	250.1	276.8	281.0
137.5°	139.9	145.8	151.7	153.2	167.6	186.8	196.4	211.5	241.6	264.2	267.5
140°	145.0	150.5	155.9	157.3	170.0	187.0	195.4	208.4	234.5	254.0	257.2
142.5°	149.0	154.0	159.1	160.3	172.0	187.6	195.4	206.8	229.8	246.9	249.6
145°	155.0	159.4	163.8	164.9	174.7	187.6	194.1	203.4	222.1	236.2	238.2
147.5°	161.1	165.4	169.7	170.7	178.6	188.9	194.1	201.5	216.1	227.2	228.9
150°	165.0	168.9	172.8	173.8	180.6	189.6	194.1	200.3	212.7	222.0	223.4
152.5°	169.2	172.1	175.0	175.7	181.9	190.1	194.1	199.4	210.0	218.0	219.0
155°	175.2	177.4	179.6	180.1	184.8	191.0	194.1	198.3	206.8	213.1	213.8
157.5°	179.7	181.8	183.9	184.4	187.7	192.0	194.1	197.4	203.9	208.9	209.4
160°	182.8	184.4	186.0	186.5	189.0	192.4	194.1	196.9	202.5	206.8	207.0
162.5°	185.8	187.0	188.2	188.6	190.4	192.9	194.1	196.5	201.2	204.8	205.1
165°	189.1	190.2	191.3	191.6	192.4	193.6	194.1	195.8	199.2	201.7	202.0
167.5°	192.1	192.6	193.1	193.3	194.0	195.0	195.4	196.6	198.8	200.4	200.5
170°	194.1	194.6	195.2	195.2	195.3	195.4	195.4	196.6	198.8	200.4	200.4
172.5°	195.2	195.2	195.4	195.4	195.4	195.4	195.4	196.3	198.1	199.4	199.3
175°	196.7	196.7	196.7	196.7	196.2	195.7	195.4	195.9	197.1	198.0	198.0
177.5°	196.7	196.7	196.7	196.7	196.3	195.9	195.7	196.1	197.0	197.7	197.6
180°	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7	196.7



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	693.3	693.3
2.5°	740.1	735.8
5°	952.0	956.5
7.5°	1282.0	1279.7
10°	1594.0	1614.1
12.5°	1821.4	1825.9
15°	1959.7	1968.6
17.5°	2013.2	2015.4
20°	2015.4	2011.0
22.5°	1990.8	1986.5
25°	1961.9	1959.7
27.5°	1935.2	1937.4
30°	1924.0	1930.7
32.5°	1924.0	1935.2
35°	1928.5	1939.6
37.5°	1926.2	1939.6
40°	1917.3	1932.9
42.5°	1892.8	1904.0
45°	1854.9	1868.2
47.5°	1805.9	1814.7
50°	1743.4	1752.3
52.5°	1665.3	1667.6
55°	1571.7	1580.7
57.5°	1471.4	1473.6
60°	1360.0	1366.6
62.5°	1241.8	1241.8
65°	1116.9	1121.4
67.5°	987.6	998.8
70°	856.1	858.4
72.5°	726.8	726.8
75°	593.0	595.2
77.5°	465.9	465.9
80°	345.5	347.8
82.5°	238.5	243.0
85°	149.4	149.4
87.5°	69.1	62.4
90°	5.0	5.0
92.5°	20.0	16.1
95°	70.0	58.0
97.5°	167.8	144.7
100°	241.7	214.3
102.5°	314.4	291.0
105°	407.2	394.5
107.5°	467.9	470.9
110°	491.1	504.2



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	493.1	513.3
115°	480.0	508.0
117.5°	452.3	483.3
120°	430.0	460.1
122.5°	408.2	437.9
125°	377.1	404.5
127.5°	349.3	372.4
130°	332.8	354.1
132.5°	317.9	337.0
135°	297.4	313.9
137.5°	281.1	294.5
140°	269.7	282.4
142.5°	260.4	271.3
145°	246.5	254.7
147.5°	235.7	242.5
150°	229.0	234.5
152.5°	223.2	227.4
155°	216.5	219.3
157.5°	211.3	213.3
160°	208.2	209.3
162.5°	206.1	207.2
165°	203.2	204.3
167.5°	201.0	201.5
170°	200.4	200.4
172.5°	198.8	198.5
175°	198.0	198.0
177.5°	197.1	196.7
180°	196.7	196.7



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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	8.48	9.79	9.12	10.44	11.18	21.65	22.95	22.28	23.60	24.35
	3H	9.22	10.40	9.87	11.06	11.84	23.51	24.69	24.16	25.35	26.13
	4H	9.54	10.65	10.20	11.32	12.12	24.18	25.29	24.84	25.96	26.76
	6H	9.81	10.84	10.49	11.53	12.34	24.62	25.66	25.30	26.34	27.15
	8H	9.89	10.88	10.58	11.58	12.39	24.76	25.74	25.44	26.44	27.26
	12H	9.93	10.87	10.62	11.56	12.41	24.84	25.78	25.53	26.48	27.32
4H	2H	15.74	16.85	16.41	17.53	18.32	21.97	23.09	22.64	23.76	24.55
	3H	17.35	18.29	18.03	18.99	19.81	24.05	24.99	24.73	25.70	26.51
	4H	17.46	18.31	18.16	19.03	19.87	24.84	25.69	25.53	26.40	27.25
	6H	17.50	18.24	18.22	18.98	19.83	25.40	26.14	26.11	26.88	27.73
	8H	17.49	18.18	18.21	18.92	19.79	25.57	26.26	26.29	27.00	27.87
	12H	17.47	18.09	18.21	18.85	19.73	25.68	26.31	26.42	27.07	27.94
8H	4H	18.94	19.64	19.66	20.37	21.24	24.94	25.63	25.66	26.37	27.23
	6H	19.20	19.78	19.96	20.56	21.43	25.58	26.16	26.33	26.94	27.81
	8H	19.23	19.75	19.99	20.52	21.41	25.80	26.32	26.57	27.10	27.98
	12H	19.22	19.68	19.99	20.44	21.39	25.97	26.42	26.73	27.19	28.14
12H	4H	19.11	19.73	19.85	20.49	21.36	24.91	25.54	25.65	26.30	27.17
	6H	19.47	19.99	20.23	20.76	21.65	25.57	26.09	26.33	26.87	27.75
	8H	19.56	20.02	20.33	20.78	21.73	25.82	26.27	26.59	27.04	27.99