

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: P937399

Luminaire Tested: SQ4-FB-075U-125D-B35-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937399
REPORT IS A COMBINATION OF REPORTS P933512 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-125D-B35-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

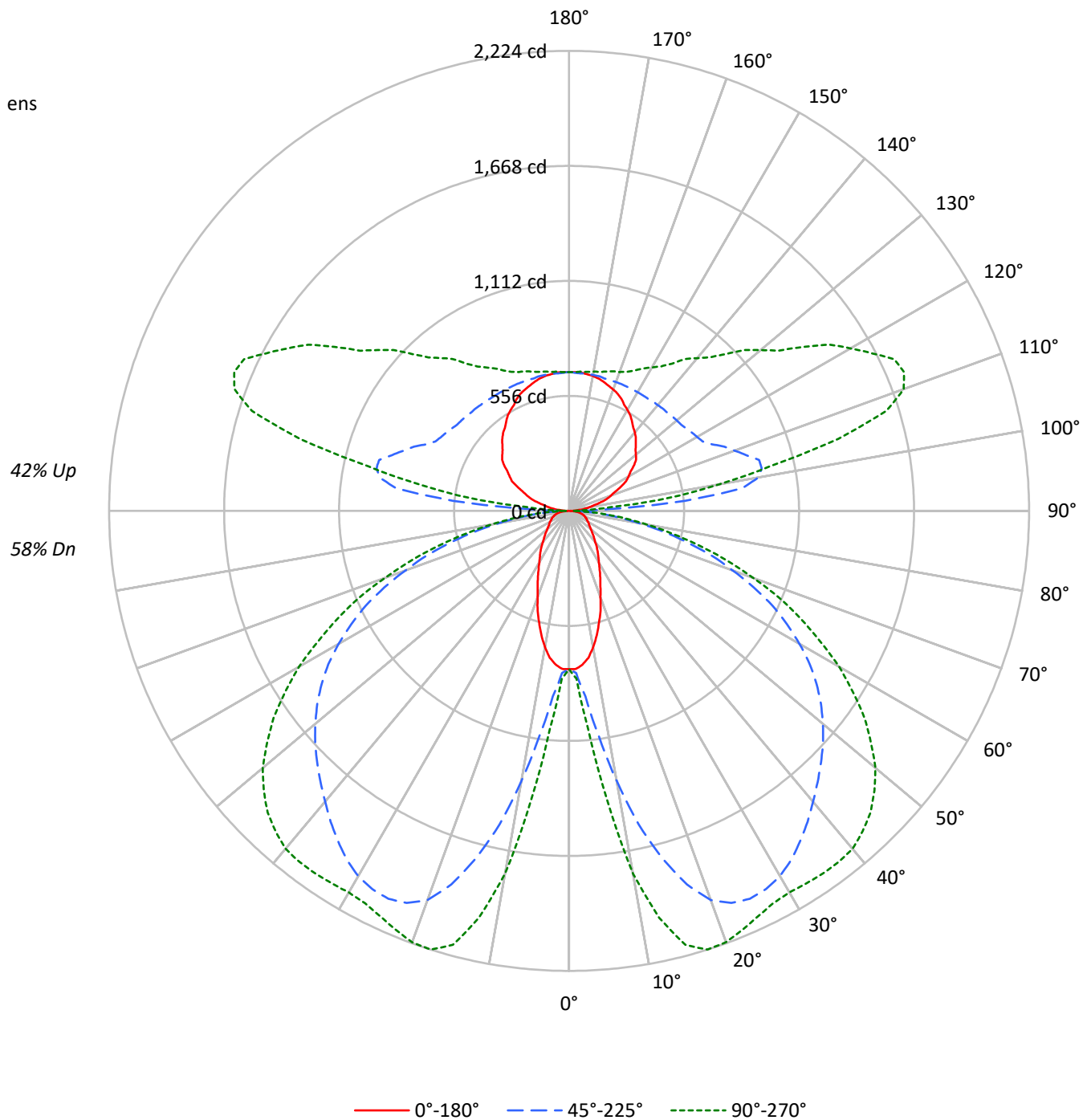
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10272.4 lumens
Efficiency: N/A
Efficacy: 110.5 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: General Diffuse

Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): 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	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58			58
1	99	94	90	86	92	88	84	81	76	73	71	65	63	61	55	53	52	47			47
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43	38			38
3	81	71	63	57	75	66	59	54	57	52	47	49	45	41	41	38	36	32			32
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	36	33	30	27			27
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	33	29	26	23			23
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19			19
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19	17			17
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17	15			15
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15	13			13
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	16	14	12			12

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4732	4732	4732
5°	4621	5468	6361
10°	4190	7969	10545
15°	3560	10408	12733
20°	2897	12058	12977
25°	2416	12616	12713
30°	2036	12692	12689
35°	1800	12478	13017
40°	1567	12201	13356
45°	1418	11996	13409
50°	1299	11812	13187
55°	1243	11544	12602
60°	1271	11032	11679
65°	1321	10256	10411
70°	1404	8938	8796
75°	1550	7282	6863
80°	1679	5043	4625
85°	1467	2671	2367

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13409 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	1.0
10°-20°	438.5	4.3
20°-30°	767.1	7.5
30°-40°	987.5	9.6
40°-50°	1103.0	10.7
50°-60°	1056.4	10.3
60°-70°	837.2	8.1
70°-80°	492.3	4.8
80°-90°	139.3	1.4
90°-100°	327.2	3.2
100°-110°	860.4	8.4
110°-120°	892.1	8.7
120°-130°	715.6	7.0
130°-140°	561.5	5.5
140°-150°	431.0	4.2
150°-160°	310.4	3.0
160°-170°	189.9	1.8
170°-180°	64.2	0.6
0°-30°	1304.6	12.7
0°-40°	2292.1	22.3
0°-60°	4451.4	43.3
0°-90°	5920.3	57.6
90°-120°	2079.7	20.2
90°-150°	3787.7	36.9
90°-180°	4352.0	42.4
0°-180°	10272.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	765	765	765	765	765	
5°	745	799	900	1018	1055	69
15°	558	1031	1736	2105	2172	155
25°	357	1168	2069	2160	2162	164
35°	241	1117	1948	2059	2140	151
45°	165	890	1722	1973	2061	127
55°	118	566	1461	1697	1744	108
65°	94	300	1085	1220	1237	93
75°	69	184	595	654	657	72
85°	25	57	148	162	165	26
90°	4	13	34	17	17	5
95°	43	169	564	291	198	48
105°	155	235	951	1444	1347	164
115°	275	334	762	1520	1735	272
125°	383	429	693	1171	1382	340
135°	456	502	671	945	1072	353
145°	530	563	663	806	870	332
155°	598	615	663	728	749	275
165°	646	654	663	689	698	182
175°	671	671	667	676	676	64
180°	671	671	671	671	671	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9	764.9
2.5°	764.9	764.9	769.9	772.3	777.2	779.8	784.6	789.5	804.3	806.8	811.7
5°	745.3	755.1	787.1	799.4	833.8	880.5	900.2	932.2	998.7	1018.3	1030.6
7.5°	715.8	737.9	816.6	836.2	922.4	1045.4	1097.0	1165.9	1271.6	1323.3	1365.1
10°	669.0	715.8	855.9	902.7	1042.9	1229.9	1325.8	1421.7	1581.6	1652.9	1680.0
12.5°	617.3	693.6	897.8	961.7	1163.4	1436.4	1552.0	1657.8	1839.8	1935.8	1950.5
15°	558.3	661.6	937.1	1030.6	1291.3	1608.6	1736.5	1866.9	2036.6	2105.4	2122.7
17.5°	506.7	637.0	974.0	1072.4	1389.7	1763.6	1893.9	2002.1	2139.9	2186.6	2199.0
20°	442.7	597.7	998.7	1126.6	1493.0	1876.8	2002.1	2085.8	2179.3	2208.7	2213.7
22.5°	396.0	555.9	1013.4	1146.2	1561.9	1945.6	2051.4	2117.7	2181.7	2191.6	2194.0
25°	356.7	509.1	1011.0	1168.3	1620.9	1987.4	2068.6	2117.7	2154.7	2159.6	2159.6
27.5°	319.8	457.5	1001.1	1173.3	1665.2	1997.2	2061.2	2095.7	2112.8	2122.7	2122.7
30°	287.8	408.3	976.5	1163.4	1684.9	1987.4	2039.1	2056.3	2073.5	2088.3	2095.7
32.5°	263.2	361.5	939.5	1143.7	1687.3	1962.8	1999.7	2009.5	2034.1	2068.6	2080.8
35°	241.1	314.8	897.8	1116.7	1672.6	1923.5	1948.1	1957.9	2007.1	2058.7	2076.0
37.5°	218.9	280.4	843.7	1070.0	1650.4	1876.8	1893.9	1911.2	1987.4	2048.9	2068.6
40°	196.8	250.9	779.8	1018.3	1616.0	1820.2	1834.9	1861.9	1962.8	2034.1	2053.8
42.5°	179.6	226.3	710.9	964.2	1571.7	1756.2	1778.3	1817.7	1933.3	2009.5	2031.7
45°	164.8	201.6	637.0	890.4	1515.1	1689.7	1721.7	1775.9	1898.9	1972.7	1992.4
47.5°	150.0	184.5	560.8	814.2	1453.7	1623.4	1665.2	1726.7	1852.1	1923.5	1940.7
50°	137.7	167.2	484.6	733.0	1387.2	1552.0	1601.3	1665.2	1793.1	1859.5	1881.6
52.5°	127.9	152.5	413.2	651.8	1311.0	1478.2	1534.8	1601.3	1721.7	1785.7	1800.5
55°	118.0	140.2	351.7	565.7	1232.3	1399.5	1461.1	1525.0	1643.0	1697.2	1707.0
57.5°	113.2	130.3	300.1	484.6	1148.7	1311.0	1379.9	1438.9	1549.6	1591.4	1601.3
60°	105.7	123.0	260.8	415.7	1057.7	1227.3	1286.4	1345.5	1438.9	1473.4	1480.7
62.5°	98.4	118.0	231.2	349.2	964.2	1129.0	1188.0	1242.2	1320.8	1345.5	1355.2
65°	93.5	113.2	209.1	300.1	868.2	1025.7	1084.7	1131.4	1195.4	1220.0	1224.9
67.5°	88.6	108.2	191.9	258.2	772.3	922.4	966.7	1011.0	1060.1	1084.7	1087.2
70°	81.2	103.3	177.1	228.8	673.9	804.3	841.2	887.9	927.3	939.5	947.0
72.5°	76.3	95.9	167.2	206.6	573.1	691.2	725.6	752.6	787.1	799.4	799.4
75°	68.9	86.0	157.5	184.5	469.8	565.7	595.3	622.3	649.3	654.3	646.9
77.5°	61.5	76.3	135.3	154.9	366.5	447.7	472.3	487.0	509.1	514.1	516.6
80°	51.6	66.4	105.7	120.5	265.6	329.6	346.8	359.1	378.8	378.8	383.7
82.5°	39.3	51.6	76.3	86.0	179.6	226.3	241.1	248.5	260.8	260.8	260.8
85°	24.6	32.0	49.2	56.6	108.2	137.7	147.6	150.0	159.9	162.3	162.3
87.5°	12.3	17.2	32.0	34.4	56.6	71.3	71.3	76.3	76.3	73.8	71.3
90°	4.5	8.0	11.7	12.6	19.8	29.4	34.2	30.4	22.9	17.2	17.2
92.5°	18.0	48.6	79.3	86.9	122.2	169.3	192.8	169.0	121.3	85.6	82.2
95°	43.2	99.3	155.3	169.4	300.8	476.1	563.7	503.0	381.6	290.6	280.3
97.5°	74.8	124.2	173.6	186.0	405.2	697.4	843.5	805.1	728.5	670.9	651.3
100°	99.1	144.0	188.9	200.1	443.2	767.4	929.6	932.4	938.0	942.2	918.8
102.5°	119.9	161.7	203.6	214.1	460.7	789.4	953.9	1002.7	1100.5	1173.7	1153.7
105°	155.0	190.5	226.0	234.8	473.6	792.0	951.2	1060.7	1279.8	1444.1	1433.3
107.5°	191.1	224.1	257.2	265.4	476.0	756.7	897.1	1049.9	1355.5	1584.7	1587.3
110°	215.4	245.3	275.0	282.5	472.3	725.5	852.0	1022.9	1364.5	1620.7	1632.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	239.2	267.6	296.1	303.2	472.5	698.2	811.1	985.9	1335.5	1597.7	1614.9
115°	275.3	301.6	327.7	334.3	476.8	666.9	761.9	930.3	1267.2	1519.8	1543.6
117.5°	310.9	334.7	358.5	364.5	485.8	647.3	728.1	880.1	1184.1	1412.1	1438.6
120°	331.6	354.1	376.5	382.1	492.9	640.7	714.6	853.5	1131.2	1339.5	1365.3
122.5°	351.9	374.5	397.2	402.8	503.3	637.3	704.3	829.3	1079.4	1267.0	1292.4
125°	382.9	403.6	424.2	429.4	517.3	634.4	693.0	799.2	1011.7	1171.0	1194.4
127.5°	408.2	429.1	449.8	455.0	531.2	632.8	683.5	774.7	957.2	1094.0	1113.8
130°	421.7	444.2	466.6	472.2	541.5	633.8	679.9	761.1	923.6	1045.4	1063.6
132.5°	435.7	458.1	480.5	486.1	549.7	634.4	676.7	749.4	894.9	1003.9	1020.2
135°	456.4	476.8	497.3	502.4	558.7	633.8	671.3	732.2	854.0	945.3	959.3
137.5°	477.6	497.8	518.0	523.1	572.2	637.7	670.5	721.9	824.8	902.0	913.6
140°	495.2	513.8	532.5	537.1	580.5	638.4	667.3	711.7	800.7	867.4	878.1
142.5°	508.7	526.0	543.2	547.5	587.4	640.6	667.3	706.3	784.4	843.0	852.3
145°	529.5	544.5	559.4	563.2	596.4	640.7	662.8	694.8	758.6	806.5	813.5
147.5°	550.1	564.7	579.4	583.0	609.6	645.1	662.8	687.9	738.2	775.9	781.7
150°	563.7	576.8	590.1	593.4	616.6	647.4	662.8	684.0	726.5	758.3	763.1
152.5°	577.6	587.7	597.7	600.2	621.0	648.8	662.8	680.9	717.2	744.4	748.0
155°	598.4	605.7	613.2	615.0	630.9	652.1	662.8	677.2	706.1	727.7	730.0
157.5°	613.7	620.9	628.1	629.9	640.9	655.5	662.8	674.0	696.4	713.3	714.9
160°	624.0	629.7	635.3	636.6	645.4	657.0	662.8	672.4	691.6	706.0	707.0
162.5°	634.4	638.7	642.8	643.9	650.2	658.6	662.8	670.9	687.1	699.3	700.2
165°	645.6	649.5	653.3	654.3	657.1	660.9	662.8	668.6	680.2	689.0	689.9
167.5°	656.0	657.9	659.6	660.1	662.5	665.7	667.3	671.0	678.7	684.4	684.8
170°	662.8	664.6	666.4	666.9	667.0	667.2	667.3	671.0	678.7	684.4	684.4
172.5°	666.4	666.8	667.2	667.3	667.3	667.3	667.3	670.3	676.3	680.8	680.4
175°	671.3	671.3	671.3	671.3	670.0	668.1	667.3	669.2	673.0	675.9	675.9
177.5°	671.3	671.3	671.3	671.3	670.3	668.9	668.2	669.8	672.8	675.0	674.6
180°	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3	671.3



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	764.9	764.9
2.5°	816.6	811.7
5°	1050.3	1055.2
7.5°	1414.4	1411.8
10°	1758.6	1780.8
12.5°	2009.5	2014.5
15°	2162.0	2171.9
17.5°	2221.0	2223.6
20°	2223.6	2218.6
22.5°	2196.4	2191.6
25°	2164.5	2162.0
27.5°	2135.0	2137.4
30°	2122.7	2130.1
32.5°	2122.7	2135.0
35°	2127.6	2139.9
37.5°	2125.1	2139.9
40°	2115.3	2132.5
42.5°	2088.3	2100.6
45°	2046.4	2061.2
47.5°	1992.4	2002.1
50°	1923.5	1933.3
52.5°	1837.3	1839.8
55°	1734.0	1743.9
57.5°	1623.4	1625.8
60°	1500.4	1507.8
62.5°	1370.1	1370.1
65°	1232.3	1237.2
67.5°	1089.6	1101.9
70°	944.5	947.0
72.5°	801.8	801.8
75°	654.3	656.7
77.5°	514.1	514.1
80°	381.2	383.7
82.5°	263.2	268.1
85°	164.8	164.8
87.5°	76.3	68.9
90°	17.2	17.2
92.5°	68.5	54.9
95°	239.1	197.8
97.5°	572.8	494.3
100°	825.2	731.7
102.5°	1073.7	993.5
105°	1390.2	1347.2
107.5°	1597.7	1608.1
110°	1676.8	1721.6



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1683.8	1752.7
115°	1639.2	1734.7
117.5°	1544.5	1650.4
120°	1468.2	1571.1
122.5°	1393.9	1495.5
125°	1288.0	1381.5
127.5°	1192.6	1271.5
130°	1136.4	1209.3
132.5°	1085.5	1150.8
135°	1015.6	1071.9
137.5°	959.6	1005.7
140°	921.2	964.3
142.5°	889.3	926.4
145°	841.6	869.6
147.5°	804.9	828.1
150°	781.9	800.7
152.5°	762.1	776.4
155°	739.4	748.8
157.5°	721.5	728.1
160°	710.8	714.6
162.5°	703.8	707.4
165°	693.7	697.5
167.5°	686.4	688.0
170°	684.4	684.4
172.5°	679.1	677.6
175°	675.9	675.9
177.5°	673.0	671.3
180°	671.3	671.3



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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	7.07	8.05	7.95	8.96	10.11	20.23	21.21	21.11	22.12	23.28
	3H	7.78	8.66	8.67	9.58	10.76	22.08	22.96	22.97	23.87	25.05
	4H	8.09	8.92	8.99	9.84	11.03	22.72	23.56	23.63	24.48	25.67
	6H	8.34	9.11	9.26	10.04	11.25	23.16	23.93	24.08	24.86	26.06
	8H	8.41	9.15	9.34	10.10	11.30	23.28	24.01	24.21	24.96	26.16
	12H	8.44	9.14	9.37	10.08	11.30	23.35	24.05	24.28	24.99	26.22
4H	2H	14.29	15.12	15.20	16.05	17.24	20.52	21.36	21.43	22.28	23.47
	3H	15.87	16.57	16.79	17.52	18.73	22.57	23.27	23.50	24.23	25.43
	4H	15.97	16.61	16.90	17.56	18.78	23.34	23.98	24.28	24.93	26.16
	6H	15.99	16.54	16.93	17.51	18.74	23.88	24.44	24.83	25.41	26.64
	8H	15.97	16.48	16.92	17.45	18.69	24.05	24.57	25.00	25.53	26.77
	12H	15.93	16.40	16.90	17.38	18.63	24.14	24.61	25.12	25.59	26.84
8H	4H	17.42	17.94	18.37	18.90	20.15	23.41	23.93	24.36	24.90	26.14
	6H	17.67	18.10	18.65	19.10	20.35	24.04	24.47	25.02	25.48	26.72
	8H	17.69	18.07	18.67	19.06	20.32	24.26	24.64	25.25	25.64	26.90
	12H	17.66	18.00	18.65	18.99	20.29	24.41	24.75	25.40	25.73	27.04
12H	4H	17.57	18.04	18.54	19.02	20.27	23.37	23.84	24.34	24.82	26.07
	6H	17.93	18.31	18.91	19.30	20.56	24.03	24.41	25.01	25.40	26.66
	8H	18.00	18.34	18.99	19.33	20.63	24.26	24.60	25.25	25.59	26.89