

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: P937382

Luminaire Tested: SQ4-FB-075U-125D-B2750-1D-UNV-STD-W-4-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937382
REPORT IS A COMBINATION OF REPORTS P933504 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-075U-125D-B2750-1D-UNV-STD-W-4-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

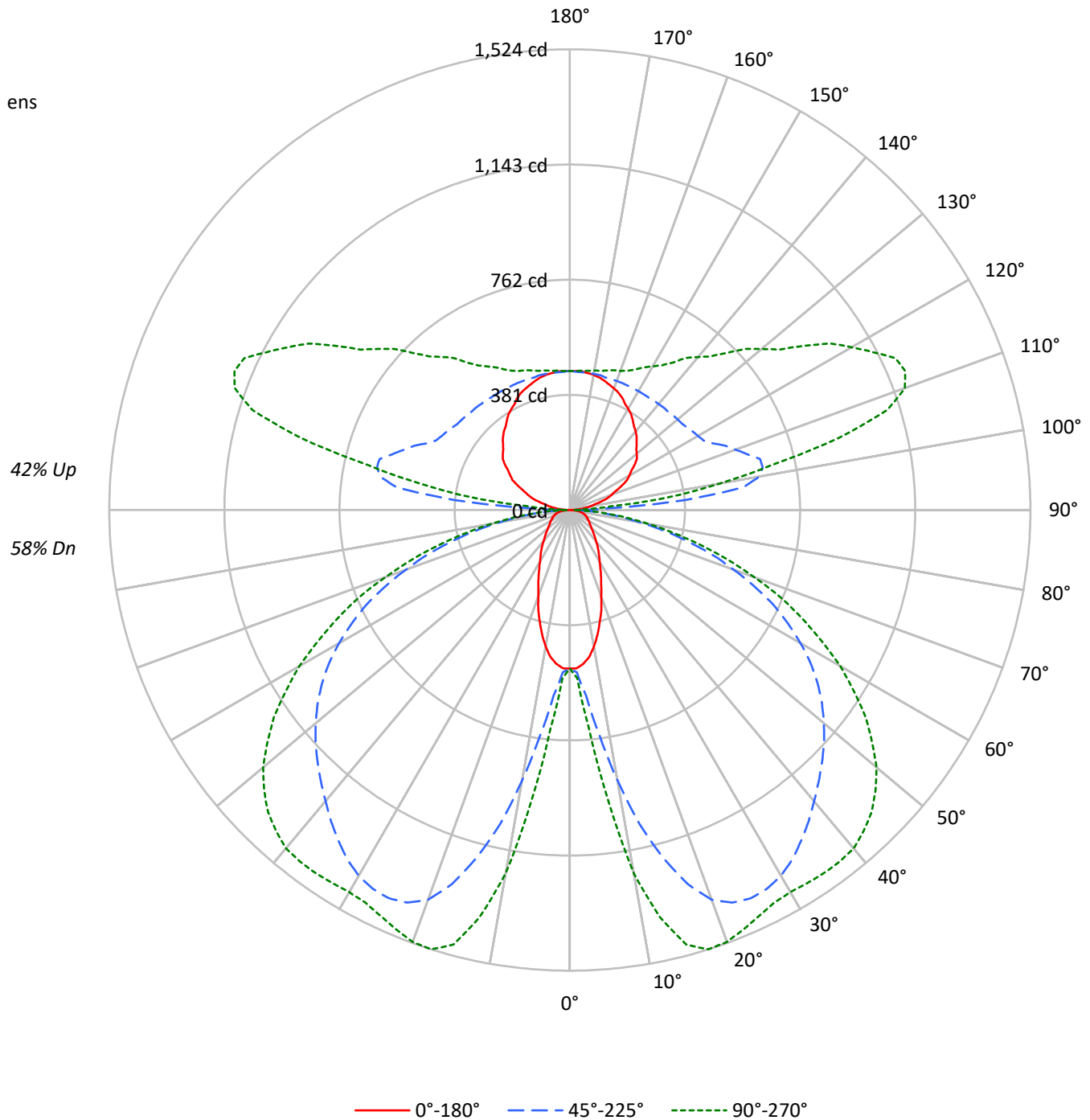
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7038.8 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 62
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
RCR																				
0	109	109	109	109	101	101	101	101	88	88	88	75	75	75	63	63	63	58		
1	99	94	90	86	92	88	84	81	76	73	71	65	63	61	55	53	52	47		
2	89	82	75	69	83	76	70	65	66	61	57	56	53	50	47	45	43	38		
3	81	71	63	57	75	66	59	54	57	52	47	49	45	41	41	38	36	32		
4	74	62	54	48	68	58	51	45	50	45	40	43	39	35	36	33	30	27		
5	68	55	47	40	63	52	44	38	45	39	34	38	34	30	33	29	26	23		
6	62	49	41	35	57	46	38	33	40	34	29	34	29	26	29	25	22	19		
7	57	44	36	30	53	41	34	28	36	30	25	31	26	22	26	22	19	17		
8	53	40	32	26	49	37	30	25	33	27	22	28	23	20	24	20	17	15		
9	49	36	28	23	46	34	27	22	30	24	20	26	21	17	22	18	15	13		
10	46	33	26	21	43	31	24	20	27	22	18	24	19	16	20	16	14	12		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4863	4863	4863
5°	4746	5617	6537
10°	4300	8182	10838
15°	3651	10681	13086
20°	2969	12370	13338
25°	2473	12935	13067
30°	2083	13006	13042
35°	1838	12779	13379
40°	1600	12489	13727
45°	1445	12273	13781
50°	1323	12076	13553
55°	1264	11792	12952
60°	1290	11259	12005
65°	1334	10455	10700
70°	1412	9100	9040
75°	1548	7401	7055
80°	1657	5113	4753
85°	1391	2698	2433

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13781 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	67.8	1.0
10°-20°	300.5	4.3
20°-30°	525.6	7.5
30°-40°	676.6	9.6
40°-50°	755.7	10.7
50°-60°	723.8	10.3
60°-70°	573.6	8.1
70°-80°	337.3	4.8
80°-90°	95.5	1.4
90°-100°	224.3	3.2
100°-110°	589.6	8.4
110°-120°	611.3	8.7
120°-130°	490.4	7.0
130°-140°	384.8	5.5
140°-150°	295.3	4.2
150°-160°	212.7	3.0
160°-170°	130.1	1.8
170°-180°	44.0	0.6
0°-30°	893.9	12.7
0°-40°	1570.5	22.3
0°-60°	3050.1	43.3
0°-90°	4056.5	57.6
90°-120°	1425.1	20.2
90°-150°	2595.5	36.9
90°-180°	2982.0	42.4
0°-180°	7038.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	524	524	524	524	524	
5°	511	548	617	698	723	47
15°	383	706	1190	1443	1488	106
25°	244	800	1417	1480	1482	113
35°	165	765	1335	1411	1466	103
45°	113	610	1180	1352	1412	87
55°	81	388	1001	1163	1195	74
65°	64	206	743	836	848	63
75°	47	126	408	448	450	49
85°	17	39	101	111	113	18
90°	3	9	24	12	12	4
95°	30	116	386	199	136	33
105°	106	161	652	990	923	113
115°	189	229	522	1041	1189	186
125°	262	294	475	802	947	233
135°	313	344	460	648	735	242
145°	363	386	454	553	596	227
155°	410	421	454	499	513	188
165°	442	448	454	472	478	125
175°	460	460	457	463	463	44
180°	460	460	460	460	460	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1	524.1
2.5°	524.1	524.1	527.5	529.2	532.6	534.3	537.6	541.0	551.1	552.8	556.2
5°	510.6	517.4	539.3	547.7	571.3	603.4	616.8	638.7	684.3	697.7	706.2
7.5°	490.4	505.6	559.6	573.0	632.0	716.2	751.7	798.9	871.3	906.7	935.3
10°	458.4	490.4	586.4	618.5	714.5	842.6	908.4	974.1	1083.6	1132.6	1151.1
12.5°	423.0	475.3	615.1	659.0	797.2	984.2	1063.4	1135.9	1260.6	1326.4	1336.4
15°	382.6	453.4	642.1	706.2	884.7	1102.2	1189.8	1279.2	1395.5	1442.6	1454.5
17.5°	347.2	436.5	667.4	734.8	952.2	1208.3	1297.7	1371.9	1466.2	1498.3	1506.6
20°	303.4	409.6	684.3	771.9	1023.0	1285.9	1371.9	1429.2	1493.2	1513.4	1516.8
22.5°	271.3	380.9	694.3	785.3	1070.2	1333.0	1405.6	1451.1	1494.9	1501.7	1503.3
25°	244.4	348.9	692.7	800.5	1110.6	1361.7	1417.4	1451.1	1476.4	1479.8	1479.8
27.5°	219.1	313.4	685.9	803.9	1140.9	1368.5	1412.3	1435.9	1447.7	1454.5	1454.5
30°	197.2	279.8	669.1	797.2	1154.5	1361.7	1397.1	1408.9	1420.7	1430.9	1435.9
32.5°	180.4	247.7	643.8	783.7	1156.2	1344.9	1370.2	1376.9	1393.8	1417.4	1425.8
35°	165.1	215.7	615.1	765.1	1146.0	1317.9	1334.7	1341.5	1375.2	1410.6	1422.4
37.5°	150.0	192.1	578.1	733.2	1130.9	1285.9	1297.7	1309.5	1361.7	1403.9	1417.4
40°	134.9	171.9	534.3	697.7	1107.3	1247.1	1257.3	1275.8	1344.9	1393.8	1407.2
42.5°	123.0	155.1	487.0	660.6	1076.9	1203.4	1218.5	1245.5	1324.7	1376.9	1392.1
45°	112.9	138.2	436.5	610.0	1038.1	1157.8	1179.8	1216.8	1301.1	1351.7	1365.1
47.5°	102.8	126.4	384.3	557.9	996.0	1112.3	1140.9	1183.1	1269.0	1317.9	1329.8
50°	94.4	114.6	332.0	502.2	950.5	1063.4	1097.2	1140.9	1228.6	1274.1	1289.3
52.5°	87.6	104.5	283.2	446.6	898.3	1012.8	1051.7	1097.2	1179.8	1223.6	1233.6
55°	80.9	96.0	241.0	387.6	844.3	958.9	1001.1	1044.9	1125.8	1162.8	1169.6
57.5°	77.5	89.3	205.6	332.0	787.0	898.3	945.5	985.9	1061.7	1090.4	1097.2
60°	72.5	84.3	178.7	284.9	724.7	841.0	881.5	921.9	985.9	1009.5	1014.5
62.5°	67.4	80.9	158.5	239.3	660.6	773.6	814.0	851.1	905.1	921.9	928.6
65°	64.0	77.5	143.2	205.6	594.9	702.8	743.2	775.3	819.1	835.9	839.3
67.5°	60.7	74.2	131.5	177.0	529.2	632.0	662.3	692.7	726.4	743.2	744.9
70°	55.6	70.8	121.3	156.8	461.7	551.1	576.4	608.4	635.3	643.8	648.9
72.5°	52.3	65.7	114.6	141.5	392.7	473.6	497.2	515.7	539.3	547.7	547.7
75°	47.2	59.0	107.9	126.4	321.9	387.6	407.9	426.4	444.9	448.3	443.2
77.5°	42.1	52.3	92.7	106.2	251.1	306.8	323.6	333.7	348.9	352.2	353.9
80°	35.4	45.5	72.5	82.6	182.0	225.8	237.6	246.0	259.6	259.6	262.9
82.5°	27.0	35.4	52.3	59.0	123.0	155.1	165.1	170.2	178.7	178.7	178.7
85°	16.8	21.9	33.7	38.7	74.2	94.4	101.1	102.8	109.6	111.3	111.3
87.5°	8.5	11.8	21.9	23.6	38.7	48.9	48.9	52.3	52.3	50.6	48.9
90°	3.1	5.6	8.1	8.7	13.6	20.2	23.5	20.9	15.6	11.8	11.8
92.5°	12.4	33.4	54.3	59.6	83.8	116.0	132.2	115.8	83.2	58.7	56.4
95°	29.7	68.1	106.6	116.1	206.2	326.2	386.2	344.6	261.4	199.1	192.0
97.5°	51.3	85.2	119.0	127.5	277.7	477.9	578.0	551.7	499.2	459.8	446.3
100°	67.9	98.6	129.4	137.0	303.7	525.9	636.9	638.8	642.7	645.6	629.6
102.5°	82.2	110.9	139.4	146.6	315.6	541.0	653.7	687.1	754.1	804.3	790.5
105°	106.2	130.5	154.8	160.9	324.5	542.7	651.8	726.9	877.0	989.5	982.2
107.5°	130.9	153.6	176.2	181.9	326.2	518.5	614.7	719.4	928.8	1085.8	1087.6
110°	147.6	168.0	188.5	193.6	323.7	497.1	583.9	700.9	934.9	1110.5	1118.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	163.9	183.5	202.9	207.8	323.8	478.5	555.8	675.6	915.1	1094.8	1106.7
115°	188.6	206.6	224.6	229.1	326.8	457.0	522.1	637.5	868.3	1041.4	1057.8
117.5°	213.0	229.4	245.7	249.8	332.9	443.5	498.9	603.1	811.3	967.6	985.7
120°	227.3	242.6	258.0	261.8	337.7	439.0	489.6	584.9	775.2	917.9	935.5
122.5°	241.1	256.7	272.1	276.0	344.8	436.6	482.6	568.2	739.6	868.2	885.6
125°	262.4	276.6	290.7	294.2	354.5	434.8	474.9	547.7	693.3	802.5	818.5
127.5°	279.8	294.0	308.3	311.8	364.0	433.7	468.4	531.0	656.0	749.7	763.2
130°	289.0	304.4	319.7	323.6	371.0	434.3	465.9	521.6	632.9	716.3	728.8
132.5°	298.6	313.9	329.3	333.2	376.7	434.8	463.7	513.5	613.2	687.9	699.1
135°	312.7	326.7	340.7	344.2	382.9	434.4	460.1	501.8	585.2	647.8	657.5
137.5°	327.3	341.1	355.0	358.5	392.1	437.0	459.5	494.7	565.2	618.1	626.0
140°	339.3	352.1	364.8	368.0	397.8	437.4	457.3	487.7	548.6	594.3	601.7
142.5°	348.6	360.4	372.1	375.1	402.5	439.0	457.3	484.1	537.5	577.7	584.1
145°	362.7	373.1	383.4	386.0	408.7	439.0	454.2	476.1	519.8	552.7	557.5
147.5°	377.0	386.9	397.0	399.5	417.7	442.0	454.2	471.4	505.9	531.7	535.6
150°	386.2	395.3	404.4	406.7	422.5	443.6	454.2	468.7	497.8	519.6	522.8
152.5°	395.8	402.7	409.6	411.2	425.6	444.6	454.2	466.6	491.4	510.1	512.4
155°	410.1	415.1	420.1	421.4	432.4	446.9	454.2	464.0	483.8	498.6	500.2
157.5°	420.5	425.5	430.5	431.7	439.1	449.2	454.2	461.8	477.2	488.7	489.8
160°	427.6	431.5	435.3	436.2	442.2	450.2	454.2	460.7	474.0	483.9	484.5
162.5°	434.8	437.6	440.5	441.2	445.5	451.3	454.2	459.8	470.8	479.2	479.8
165°	442.4	445.0	447.6	448.3	450.3	452.9	454.2	458.2	466.1	472.1	472.8
167.5°	449.5	450.7	452.0	452.3	454.0	456.2	457.3	459.9	465.1	469.0	469.3
170°	454.2	455.4	456.7	457.0	457.1	457.2	457.3	459.9	465.1	469.0	469.0
172.5°	456.7	457.0	457.2	457.3	457.3	457.3	457.3	459.4	463.4	466.5	466.3
175°	460.1	460.1	460.1	460.1	459.2	457.9	457.3	458.6	461.1	463.1	463.1
177.5°	460.1	460.1	460.1	460.1	459.4	458.4	457.9	458.9	460.9	462.5	462.2
180°	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1	460.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	524.1	524.1
2.5°	559.6	556.2
5°	719.6	723.0
7.5°	969.1	967.4
10°	1205.0	1220.2
12.5°	1376.9	1380.3
15°	1481.5	1488.1
17.5°	1521.9	1523.6
20°	1523.6	1520.2
22.5°	1505.0	1501.7
25°	1483.0	1481.5
27.5°	1462.8	1464.5
30°	1454.5	1459.5
32.5°	1454.5	1462.8
35°	1457.8	1466.2
37.5°	1456.2	1466.2
40°	1449.4	1461.1
42.5°	1430.9	1439.2
45°	1402.2	1412.3
47.5°	1365.1	1371.9
50°	1317.9	1324.7
52.5°	1258.9	1260.6
55°	1188.1	1194.9
57.5°	1112.3	1114.0
60°	1028.1	1033.2
62.5°	938.7	938.7
65°	844.3	847.7
67.5°	746.6	755.1
70°	647.2	648.9
72.5°	549.4	549.4
75°	448.3	450.0
77.5°	352.2	352.2
80°	261.3	262.9
82.5°	180.4	183.7
85°	112.9	112.9
87.5°	52.3	47.2
90°	11.8	11.8
92.5°	47.0	37.6
95°	163.8	135.6
97.5°	392.5	338.7
100°	565.5	501.4
102.5°	735.6	680.8
105°	952.7	923.2
107.5°	1094.8	1102.0
110°	1149.0	1179.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1153.9	1201.1
115°	1123.3	1188.7
117.5°	1058.3	1131.0
120°	1006.1	1076.6
122.5°	955.2	1024.8
125°	882.6	946.6
127.5°	817.2	871.3
130°	778.8	828.7
132.5°	743.8	788.5
135°	696.0	734.6
137.5°	657.6	689.1
140°	631.3	660.7
142.5°	609.4	634.8
145°	576.7	595.9
147.5°	551.6	567.5
150°	535.7	548.7
152.5°	522.2	532.0
155°	506.7	513.1
157.5°	494.4	498.9
160°	487.0	489.6
162.5°	482.3	484.8
165°	475.4	478.0
167.5°	470.4	471.5
170°	469.0	469.0
172.5°	465.3	464.3
175°	463.1	463.1
177.5°	461.1	460.1
180°	460.1	460.1



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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	7.15	8.13	8.03	9.04	10.20	20.29	21.27	21.17	22.18	23.33
	3H	7.87	8.75	8.76	9.67	10.85	22.13	23.01	23.02	23.92	25.10
	4H	8.17	9.01	9.08	9.93	11.12	22.77	23.60	23.67	24.52	25.71
	6H	8.43	9.20	9.35	10.13	11.33	23.19	23.96	24.11	24.89	26.09
	8H	8.50	9.24	9.43	10.18	11.39	23.31	24.04	24.24	24.99	26.19
	12H	8.52	9.22	9.46	10.17	11.39	23.37	24.07	24.31	25.01	26.24
4H	2H	14.36	15.19	15.27	16.12	17.30	20.58	21.42	21.49	22.34	23.53
	3H	15.94	16.64	16.86	17.59	18.80	22.62	23.32	23.55	24.28	25.48
	4H	16.04	16.68	16.97	17.63	18.86	23.39	24.03	24.32	24.97	26.20
	6H	16.06	16.61	17.01	17.58	18.81	23.92	24.47	24.87	25.45	26.67
	8H	16.04	16.56	16.99	17.52	18.77	24.08	24.60	25.03	25.56	26.80
	12H	16.00	16.47	16.97	17.45	18.70	24.17	24.64	25.14	25.62	26.87
8H	4H	17.48	18.00	18.44	18.97	20.21	23.46	23.98	24.41	24.94	26.18
	6H	17.73	18.16	18.71	19.17	20.41	24.08	24.51	25.06	25.52	26.76
	8H	17.75	18.13	18.74	19.13	20.39	24.29	24.67	25.28	25.67	26.93
	12H	17.73	18.06	18.72	19.05	20.36	24.44	24.77	25.43	25.76	27.07
12H	4H	17.63	18.10	18.60	19.08	20.33	23.42	23.88	24.39	24.87	26.12
	6H	17.99	18.37	18.97	19.37	20.63	24.06	24.45	25.05	25.44	26.70
	8H	18.06	18.40	19.06	19.39	20.70	24.29	24.63	25.28	25.62	26.92