

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: P937402

Luminaire Tested: SQ4-FB-075U-125D-B40-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P937402
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-B40-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

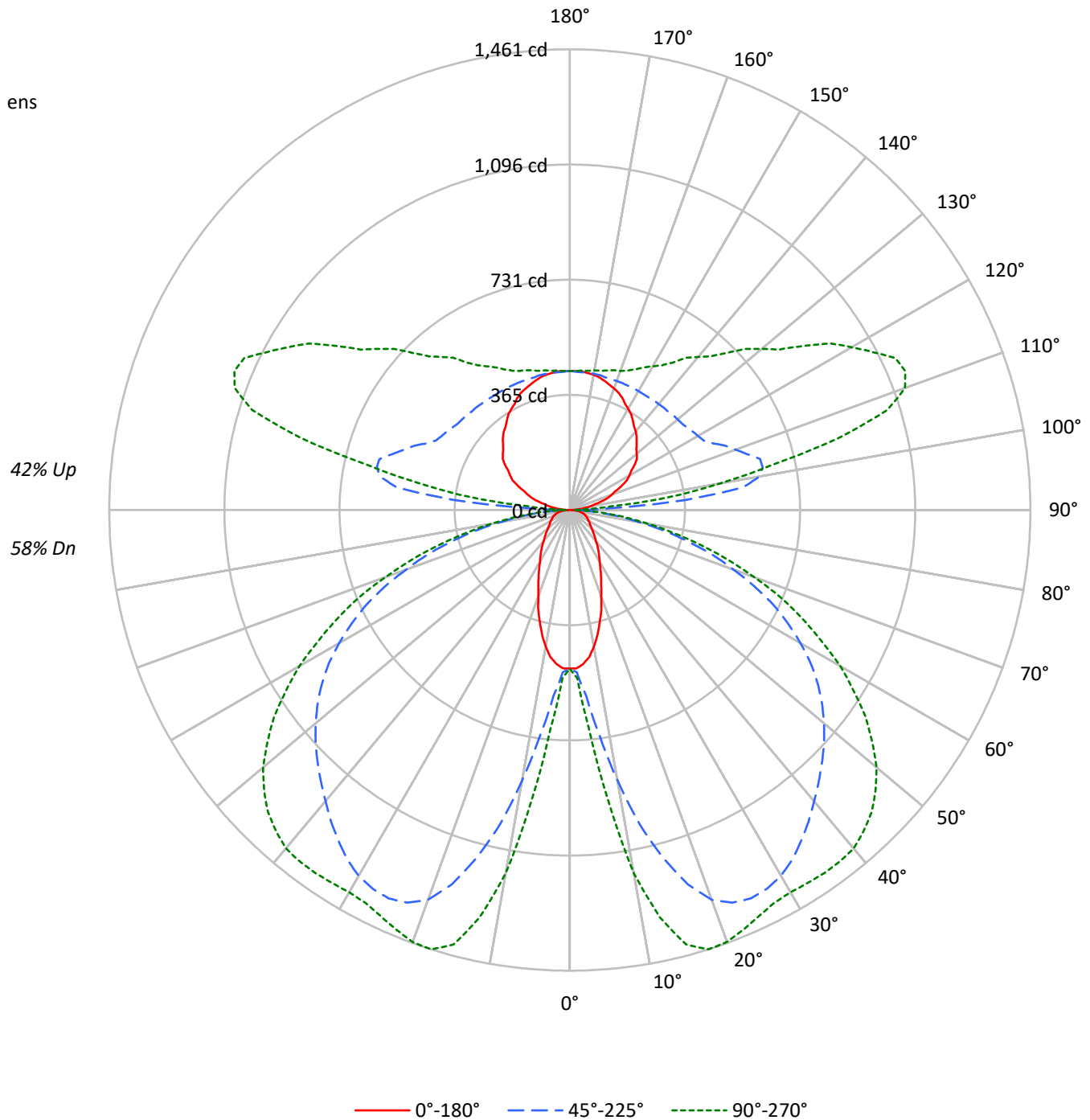
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6749.0 lumens
Efficiency: N/A
Efficacy: 108.9 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

TEST NUMBER: P937402
CATALOG NUMBER: SQ4-FB-075U-125D-B40-1D-UNV-STD-W-4

Luminous Intensity Polar Plot





TEST NUMBER: P937402

CATALOG NUMBER: SQ4-FB-075U-125D-B40-1D-UNV-STD-W-4

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°	4663	4663	4663
5°	4551	5385	6268
10°	4123	7845	10392
15°	3500	10242	12548
20°	2847	11860	12788
25°	2372	12403	12529
30°	1997	12471	12506
35°	1762	12254	12828
40°	1534	11975	13162
45°	1387	11767	13214
50°	1269	11578	12995
55°	1211	11306	12419
60°	1236	10796	11510
65°	1280	10024	10260
70°	1353	8726	8668
75°	1486	7096	6765
80°	1587	4905	4558
85°	1333	2586	2333

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 13214 cd/sqm



TEST NUMBER: P937402

CATALOG NUMBER: SQ4-FB-075U-125D-B40-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.0	1.0
10°-20°	288.1	4.3
20°-30°	504.0	7.5
30°-40°	648.8	9.6
40°-50°	724.6	10.7
50°-60°	694.0	10.3
60°-70°	550.0	8.1
70°-80°	323.4	4.8
80°-90°	91.5	1.4
90°-100°	215.0	3.2
100°-110°	565.3	8.4
110°-120°	586.1	8.7
120°-130°	470.2	7.0
130°-140°	368.9	5.5
140°-150°	283.1	4.2
150°-160°	203.9	3.0
160°-170°	124.8	1.8
170°-180°	42.2	0.6
0°-30°	857.1	12.7
0°-40°	1505.8	22.3
0°-60°	2924.5	43.3
0°-90°	3889.5	57.6
90°-120°	1366.5	20.2
90°-150°	2488.7	36.9
90°-180°	2860.0	42.4
0°-180°	6749.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	502	502	502	502	502	
5°	490	525	591	669	693	45
15°	367	677	1141	1383	1427	102
25°	234	768	1359	1419	1420	108
35°	158	734	1280	1353	1406	99
45°	108	585	1131	1296	1354	84
55°	78	372	960	1115	1146	71
65°	61	197	713	802	813	61
75°	45	121	391	430	432	47
85°	16	37	97	107	108	17
90°	3	8	22	11	11	4
95°	28	111	370	191	130	32
105°	102	154	625	949	885	108
115°	181	220	501	998	1140	179
125°	252	282	455	769	908	223
135°	300	330	441	621	704	232
145°	348	370	436	530	571	218
155°	393	404	436	478	492	181
165°	424	430	436	453	458	120
175°	441	441	438	444	444	42
180°	441	441	441	441	441	



TEST NUMBER: P937402

CATALOG NUMBER: SQ4-FB-075U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	502.5	502.5	502.5	502.5	502.5	502.5	502.5	502.5	502.5	502.5	502.5
2.5°	502.5	502.5	505.8	507.4	510.6	512.3	515.5	518.8	528.4	530.0	533.3
5°	489.6	496.1	517.1	525.2	547.8	578.5	591.4	612.4	656.1	669.0	677.1
7.5°	470.2	484.8	536.5	549.4	605.9	686.7	720.7	766.0	835.4	869.3	896.8
10°	439.5	470.2	562.3	593.1	685.1	807.9	871.0	934.0	1039.0	1085.9	1103.7
12.5°	405.6	455.7	589.8	631.8	764.4	943.7	1019.7	1089.2	1208.7	1271.8	1281.4
15°	366.8	434.7	615.7	677.1	848.3	1056.8	1140.8	1226.5	1338.1	1383.2	1394.6
17.5°	332.9	418.6	639.9	704.6	913.0	1158.6	1244.3	1315.4	1405.9	1436.6	1444.6
20°	290.9	392.7	656.1	740.1	980.9	1233.0	1315.4	1370.3	1431.7	1451.1	1454.4
22.5°	260.1	365.2	665.7	753.0	1026.1	1278.2	1347.7	1391.3	1433.4	1439.9	1441.4
25°	234.4	334.5	664.2	767.5	1064.9	1305.7	1359.1	1391.3	1415.6	1418.8	1418.8
27.5°	210.1	300.5	657.7	770.8	1094.0	1312.2	1354.2	1376.8	1388.1	1394.6	1394.6
30°	189.1	268.3	641.6	764.4	1106.9	1305.7	1339.6	1350.9	1362.2	1372.0	1376.8
32.5°	173.0	237.5	617.3	751.4	1108.6	1289.5	1313.8	1320.2	1336.4	1359.1	1367.1
35°	158.3	206.9	589.8	733.6	1098.8	1263.7	1279.8	1286.3	1318.6	1352.6	1363.8
37.5°	143.8	184.2	554.3	703.0	1084.3	1233.0	1244.3	1255.6	1305.7	1346.1	1359.1
40°	129.3	164.8	512.3	669.0	1061.7	1195.8	1205.5	1223.3	1289.5	1336.4	1349.3
42.5°	117.9	148.7	467.0	633.5	1032.5	1153.8	1168.3	1194.2	1270.1	1320.2	1334.8
45°	108.3	132.6	418.6	584.9	995.4	1110.2	1131.2	1166.7	1247.5	1296.0	1308.9
47.5°	98.6	121.2	368.4	534.9	955.0	1066.5	1094.0	1134.4	1216.8	1263.7	1275.0
50°	90.5	109.9	318.3	481.5	911.4	1019.7	1052.0	1094.0	1178.0	1221.6	1236.2
52.5°	84.0	100.2	271.5	428.2	861.3	971.1	1008.4	1052.0	1131.2	1173.2	1182.9
55°	77.5	92.1	231.1	371.7	809.6	919.5	959.9	1001.9	1079.4	1115.0	1121.5
57.5°	74.3	85.7	197.1	318.3	754.6	861.3	906.6	945.4	1018.0	1045.5	1052.0
60°	69.5	80.8	171.3	273.1	694.9	806.4	845.2	883.9	945.4	968.0	972.8
62.5°	64.7	77.5	151.9	229.5	633.5	741.7	780.5	816.0	867.8	883.9	890.3
65°	61.4	74.3	137.3	197.1	570.4	673.8	712.6	743.4	785.4	801.5	804.8
67.5°	58.2	71.1	126.1	169.7	507.4	605.9	635.1	664.2	696.5	712.6	714.2
70°	53.3	67.9	116.3	150.3	442.7	528.4	552.7	583.3	609.2	617.3	622.2
72.5°	50.1	63.0	109.9	135.7	376.6	454.1	476.7	494.5	517.1	525.2	525.2
75°	45.3	56.5	103.4	121.2	308.7	371.7	391.1	408.8	426.6	429.8	425.0
77.5°	40.4	50.1	88.9	101.8	240.8	294.1	310.3	319.9	334.5	337.7	339.3
80°	33.9	43.6	69.5	79.2	174.5	216.5	227.9	235.9	248.9	248.9	252.1
82.5°	25.9	33.9	50.1	56.5	117.9	148.7	158.3	163.2	171.3	171.3	171.3
85°	16.1	21.0	32.3	37.1	71.1	90.5	96.9	98.6	105.0	106.7	106.7
87.5°	8.1	11.3	21.0	22.6	37.1	46.9	46.9	50.1	50.1	48.5	46.9
90°	3.0	5.3	7.7	8.3	13.1	19.4	22.5	20.1	15.0	11.3	11.3
92.5°	11.8	32.0	52.0	57.1	80.3	111.3	126.7	111.1	79.7	56.2	54.1
95°	28.5	65.3	102.2	111.4	197.7	312.8	370.3	330.4	250.7	190.9	184.1
97.5°	49.2	81.7	114.1	122.2	266.3	458.2	554.2	529.0	478.6	440.8	427.9
100°	65.1	94.5	124.1	131.4	291.2	504.2	610.7	612.5	616.3	619.0	603.7
102.5°	78.8	106.3	133.7	140.6	302.6	518.8	626.8	658.9	723.0	771.2	758.0
105°	101.8	125.1	148.4	154.2	311.1	520.4	625.0	697.0	840.9	948.8	941.7
107.5°	125.5	147.3	168.9	174.4	312.8	497.2	589.4	689.8	890.5	1041.1	1042.9
110°	141.5	161.1	180.8	185.7	310.4	476.6	559.8	672.0	896.5	1064.8	1072.2



TEST NUMBER: P937402

CATALOG NUMBER: SQ4-FB-075U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	157.2	175.9	194.5	199.2	310.5	458.8	532.9	647.8	877.5	1049.7	1061.1
115°	180.9	198.1	215.4	219.6	313.3	438.2	500.6	611.3	832.6	998.5	1014.2
117.5°	204.3	219.9	235.6	239.5	319.2	425.3	478.4	578.3	777.9	927.8	945.2
120°	217.9	232.6	247.3	251.1	323.8	421.0	469.5	560.8	743.3	880.1	897.0
122.5°	231.2	246.1	260.9	264.6	330.6	418.7	462.7	544.8	709.2	832.5	849.2
125°	251.6	265.2	278.8	282.1	339.9	416.9	455.3	525.2	664.8	769.4	784.8
127.5°	268.3	281.9	295.6	299.0	349.1	415.8	449.1	509.1	629.0	718.8	731.8
130°	277.1	291.8	306.6	310.3	355.7	416.4	446.7	500.1	606.8	686.8	698.8
132.5°	286.3	301.0	315.7	319.4	361.2	416.9	444.6	492.4	588.0	659.6	670.3
135°	299.9	313.2	326.7	330.0	367.1	416.5	441.1	481.1	561.2	621.1	630.4
137.5°	313.8	327.1	340.4	343.7	376.0	419.1	440.5	474.3	542.0	592.7	600.2
140°	325.4	337.6	349.8	352.9	381.4	419.4	438.4	467.7	526.0	569.8	576.9
142.5°	334.2	345.5	356.8	359.7	385.9	421.0	438.4	464.1	515.4	553.9	560.0
145°	347.8	357.7	367.6	370.1	391.8	421.0	435.5	456.5	498.4	529.9	534.5
147.5°	361.5	371.0	380.7	383.1	400.5	423.8	435.5	452.0	485.0	509.8	513.6
150°	370.3	379.0	387.7	389.9	405.1	425.4	435.5	449.4	477.3	498.2	501.3
152.5°	379.5	386.1	392.7	394.3	408.1	426.3	435.5	447.4	471.2	489.1	491.3
155°	393.2	398.0	402.8	404.1	414.6	428.5	435.5	444.9	463.8	478.1	479.6
157.5°	403.2	408.0	412.8	413.9	421.1	430.7	435.5	442.8	457.5	468.6	469.7
160°	410.0	413.7	417.3	418.3	424.0	431.7	435.5	441.8	454.5	463.9	464.5
162.5°	416.9	419.6	422.4	423.1	427.2	432.7	435.5	440.8	451.4	459.5	460.0
165°	424.2	426.7	429.2	429.8	431.8	434.2	435.5	439.3	446.9	452.7	453.3
167.5°	431.0	432.1	433.4	433.7	435.3	437.4	438.4	440.9	446.0	449.7	450.0
170°	435.5	436.6	437.9	438.2	438.2	438.3	438.4	440.9	446.0	449.7	449.7
172.5°	437.9	438.2	438.3	438.4	438.4	438.4	438.4	440.4	444.4	447.3	447.1
175°	441.1	441.1	441.1	441.1	440.3	439.0	438.4	439.7	442.2	444.1	444.1
177.5°	441.1	441.1	441.1	441.1	440.4	439.5	439.0	440.0	442.0	443.5	443.2
180°	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1	441.1



TEST NUMBER: P937402

CATALOG NUMBER: SQ4-FB-075U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	502.5	502.5
2.5°	536.5	533.3
5°	690.0	693.2
7.5°	929.2	927.6
10°	1155.4	1170.0
12.5°	1320.2	1323.4
15°	1420.5	1426.9
17.5°	1459.2	1460.9
20°	1460.9	1457.6
22.5°	1443.0	1439.9
25°	1422.0	1420.5
27.5°	1402.6	1404.2
30°	1394.6	1399.5
32.5°	1394.6	1402.6
35°	1397.8	1405.9
37.5°	1396.2	1405.9
40°	1389.7	1401.0
42.5°	1372.0	1380.0
45°	1344.4	1354.2
47.5°	1308.9	1315.4
50°	1263.7	1270.1
52.5°	1207.1	1208.7
55°	1139.2	1145.7
57.5°	1066.5	1068.2
60°	985.8	990.6
62.5°	900.1	900.1
65°	809.6	812.8
67.5°	715.9	724.0
70°	620.6	622.2
72.5°	526.8	526.8
75°	429.8	431.5
77.5°	337.7	337.7
80°	250.5	252.1
82.5°	173.0	176.1
85°	108.3	108.3
87.5°	50.1	45.3
90°	11.3	11.3
92.5°	45.1	36.1
95°	157.1	130.0
97.5°	376.4	324.8
100°	542.2	480.7
102.5°	705.4	652.7
105°	913.5	885.2
107.5°	1049.7	1056.6
110°	1101.7	1131.2



TEST NUMBER: P937402

CATALOG NUMBER: SQ4-FB-075U-125D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1106.4	1151.6
115°	1077.0	1139.8
117.5°	1014.8	1084.4
120°	964.6	1032.3
122.5°	915.8	982.6
125°	846.2	907.6
127.5°	783.6	835.4
130°	746.7	794.6
132.5°	713.2	756.1
135°	667.4	704.3
137.5°	630.5	660.8
140°	605.3	633.5
142.5°	584.3	608.6
145°	552.9	571.4
147.5°	528.9	544.2
150°	513.7	526.1
152.5°	500.7	510.1
155°	485.8	492.0
157.5°	474.1	478.4
160°	467.0	469.5
162.5°	462.4	464.8
165°	455.8	458.3
167.5°	451.0	452.1
170°	449.7	449.7
172.5°	446.2	445.2
175°	444.1	444.1
177.5°	442.2	441.1
180°	441.1	441.1



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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	7.01	7.99	7.89	8.89	10.05	20.15	21.13	21.03	22.03	23.19
	3H	7.72	8.60	8.61	9.52	10.70	21.98	22.86	22.87	23.78	24.96
	4H	8.03	8.86	8.93	9.78	10.97	22.62	23.45	23.53	24.38	25.57
	6H	8.28	9.05	9.20	9.98	11.18	23.04	23.82	23.96	24.74	25.95
	8H	8.35	9.09	9.28	10.04	11.24	23.16	23.90	24.09	24.84	26.04
	12H	8.38	9.08	9.31	10.02	11.25	23.23	23.93	24.16	24.87	26.10
4H	2H	14.21	15.05	15.12	15.97	17.16	20.44	21.27	21.35	22.19	23.38
	3H	15.79	16.49	16.72	17.45	18.65	22.48	23.18	23.40	24.13	25.34
	4H	15.89	16.53	16.83	17.48	18.71	23.24	23.88	24.17	24.83	26.06
	6H	15.91	16.47	16.86	17.44	18.67	23.77	24.33	24.72	25.30	26.53
	8H	15.89	16.41	16.84	17.38	18.62	23.93	24.45	24.88	25.42	26.66
	12H	15.85	16.32	16.83	17.31	18.55	24.02	24.49	24.99	25.47	26.72
8H	4H	17.34	17.86	18.29	18.82	20.07	23.31	23.83	24.26	24.79	26.04
	6H	17.59	18.02	18.56	19.02	20.26	23.93	24.36	24.91	25.37	26.61
	8H	17.61	17.99	18.59	18.98	20.24	24.15	24.53	25.13	25.52	26.78
	12H	17.58	17.92	18.57	18.91	20.21	24.29	24.62	25.28	25.61	26.92
12H	4H	17.48	17.95	18.46	18.94	20.18	23.27	23.74	24.24	24.72	25.97
	6H	17.84	18.22	18.83	19.22	20.48	23.92	24.30	24.90	25.29	26.55
	8H	17.92	18.25	18.91	19.24	20.55	24.15	24.48	25.14	25.47	26.78