

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: P938132

Luminaire Tested: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938132
REPORT IS A COMBINATION OF REPORTS P933600 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

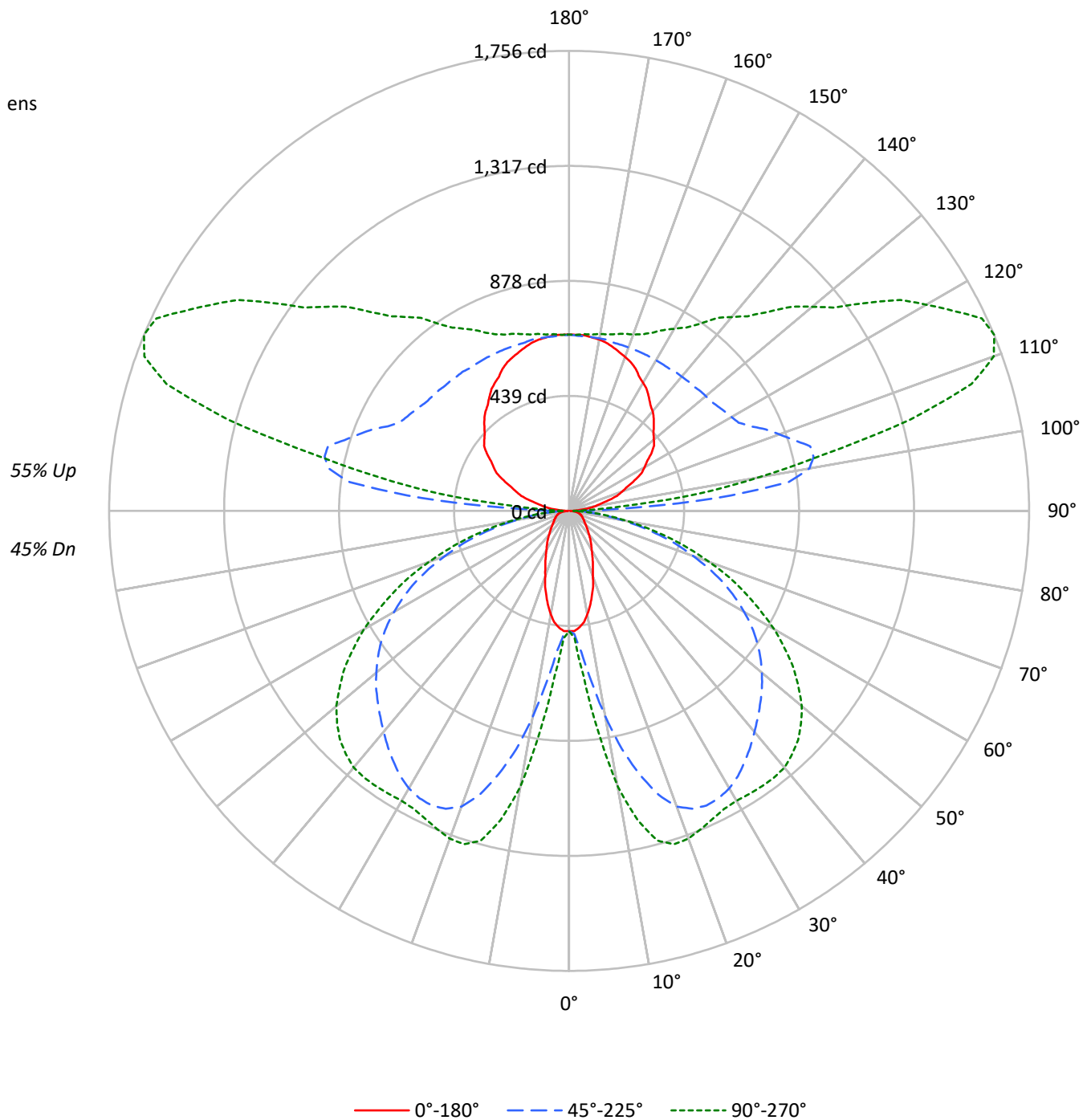
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7913.7 lumens
Efficiency: N/A
Efficacy: 105.2 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): 75.2
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: P938132
CATALOG NUMBER: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-4-3000K

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	0
RCR																		
0	106	106	106	106	97	97	97	97	80	80	80	65	65	65	51	51	51	45
1	96	92	88	84	88	84	81	77	70	67	65	57	55	53	45	44	42	37
2	87	79	73	68	79	73	67	63	61	56	53	49	46	44	39	37	35	30
3	79	69	62	56	72	64	57	52	53	48	44	43	39	36	34	31	29	25
4	72	61	53	47	66	56	49	43	47	41	37	38	34	31	30	27	25	21
5	66	54	46	39	60	50	42	37	41	36	31	34	29	26	27	23	21	18
6	60	48	40	34	55	44	37	31	37	31	27	30	26	23	24	21	18	15
7	56	43	35	29	51	40	32	27	33	28	23	27	23	20	22	18	16	13
8	52	39	31	26	47	36	29	24	30	25	21	25	20	17	20	16	14	12
9	48	35	28	23	44	33	26	21	27	22	18	23	18	15	18	15	12	10
10	45	32	25	20	41	30	23	19	25	20	16	21	17	14	17	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4258	4258	4258
5°	4156	4918	5724
10°	3765	7163	9489
15°	3196	9352	11458
20°	2599	10830	11678
25°	2166	11325	11441
30°	1824	11387	11419
35°	1610	11189	11713
40°	1401	10935	12019
45°	1266	10745	12066
50°	1159	10572	11866
55°	1106	10324	11340
60°	1130	9858	10511
65°	1169	9154	9368
70°	1236	7966	7915
75°	1354	6479	6177
80°	1451	4478	4162
85°	1217	2362	2131

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12066 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	0.8
10°-20°	263.1	3.3
20°-30°	460.2	5.8
30°-40°	592.4	7.5
40°-50°	661.7	8.4
50°-60°	633.7	8.0
60°-70°	502.2	6.3
70°-80°	295.3	3.7
80°-90°	84.6	1.1
90°-100°	327.9	4.1
100°-110°	862.1	10.9
110°-120°	893.9	11.3
120°-130°	717.0	9.1
130°-140°	562.6	7.1
140°-150°	431.8	5.5
150°-160°	311.0	3.9
160°-170°	190.3	2.4
170°-180°	64.3	0.8
0°-30°	782.6	9.9
0°-40°	1375.0	17.4
0°-60°	2670.4	33.7
0°-90°	3552.6	44.9
90°-120°	2084.0	26.3
90°-150°	3795.5	48.0
90°-180°	4361.0	55.1
0°-180°	7913.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	459	459	459	459	459	
5°	447	480	540	611	633	41
15°	335	618	1042	1263	1303	93
25°	214	701	1241	1296	1297	99
35°	145	670	1169	1235	1284	90
45°	99	534	1033	1183	1236	76
55°	71	339	876	1018	1046	65
65°	56	180	651	732	742	56
75°	41	111	357	392	394	43
85°	15	34	88	97	99	16
90°	4	13	34	17	17	5
95°	43	170	565	291	198	48
105°	155	235	953	1447	1350	165
115°	276	335	764	1523	1738	272
125°	384	430	694	1173	1384	341
135°	457	503	673	947	1074	354
145°	530	564	664	808	871	332
155°	600	616	664	729	750	276
165°	647	656	664	690	699	183
175°	673	673	669	677	677	64
180°	673	673	673	673	673	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9	458.9
2.5°	458.9	458.9	461.8	463.3	466.3	467.8	470.7	473.7	482.5	484.0	486.9
5°	447.1	453.0	472.2	479.5	500.2	528.3	540.1	559.2	599.1	610.9	618.3
7.5°	429.4	442.6	489.9	501.7	553.3	627.1	658.1	699.5	762.9	793.8	818.9
10°	401.3	429.4	513.5	541.5	625.6	737.7	795.3	852.8	948.8	991.6	1007.8
12.5°	370.4	416.1	538.6	576.9	698.0	861.7	931.1	994.6	1103.7	1161.3	1170.1
15°	334.9	396.9	562.2	618.3	774.6	965.0	1041.7	1120.0	1221.8	1263.1	1273.4
17.5°	304.0	382.2	584.3	643.4	833.7	1058.0	1136.2	1201.1	1283.7	1311.8	1319.1
20°	265.6	358.6	599.1	675.8	895.7	1125.9	1201.1	1251.3	1307.4	1325.1	1328.0
22.5°	237.5	333.5	607.9	687.6	937.0	1167.1	1230.6	1270.5	1308.8	1314.8	1316.2
25°	214.0	305.5	606.5	700.9	972.4	1192.2	1241.0	1270.5	1292.6	1295.6	1295.6
27.5°	191.8	274.4	600.6	703.8	998.9	1198.2	1236.5	1257.2	1267.5	1273.4	1273.4
30°	172.7	245.0	585.8	698.0	1010.8	1192.2	1223.2	1233.6	1243.9	1252.8	1257.2
32.5°	157.9	216.9	563.7	686.1	1012.3	1177.5	1199.7	1205.5	1220.3	1241.0	1248.3
35°	144.6	188.9	538.6	669.9	1003.4	1153.9	1168.6	1174.5	1204.0	1235.1	1245.4
37.5°	131.3	168.2	506.1	641.9	990.1	1125.9	1136.2	1146.6	1192.2	1229.1	1241.0
40°	118.1	150.5	467.8	610.9	969.4	1091.9	1100.8	1117.0	1177.5	1220.3	1232.1
42.5°	107.7	135.8	426.4	578.4	942.8	1053.6	1066.8	1090.5	1159.8	1205.5	1218.8
45°	98.9	121.0	382.2	534.1	908.9	1013.7	1032.9	1065.4	1139.1	1183.4	1195.2
47.5°	90.0	110.7	336.4	488.4	872.0	973.9	998.9	1035.9	1111.1	1153.9	1164.3
50°	82.7	100.4	290.6	439.7	832.2	931.1	960.6	998.9	1075.7	1115.5	1128.8
52.5°	76.7	91.5	247.9	391.0	786.5	886.8	920.8	960.6	1032.9	1071.3	1080.1
55°	70.8	84.1	211.0	339.4	739.2	839.6	876.5	914.9	985.7	1018.1	1024.0
57.5°	67.8	78.2	180.0	290.6	689.1	786.5	827.8	863.2	929.6	954.7	960.6
60°	63.5	73.8	156.4	249.4	634.5	736.3	771.8	807.2	863.2	883.9	888.3
62.5°	59.0	70.8	138.7	209.5	578.4	677.3	712.7	745.2	792.4	807.2	813.0
65°	56.1	67.8	125.4	180.0	520.9	615.3	650.7	678.8	717.2	731.9	734.9
67.5°	53.1	65.0	115.1	155.0	463.3	553.3	579.9	606.5	636.0	650.7	652.2
70°	48.7	62.0	106.2	137.3	404.3	482.5	504.6	532.6	556.3	563.7	568.1
72.5°	45.8	57.6	100.4	123.9	343.8	414.7	435.3	451.5	472.2	479.5	479.5
75°	41.3	51.6	94.4	110.7	281.8	339.4	357.1	373.3	389.5	392.5	388.1
77.5°	36.9	45.8	81.2	93.0	219.8	268.6	283.3	292.1	305.5	308.4	309.8
80°	31.0	39.9	63.5	72.3	159.3	197.7	208.1	215.4	227.3	227.3	230.2
82.5°	23.6	31.0	45.8	51.6	107.7	135.8	144.6	149.0	156.4	156.4	156.4
85°	14.7	19.2	29.5	33.9	65.0	82.7	88.5	90.0	95.9	97.4	97.4
87.5°	7.4	10.3	19.2	20.7	33.9	42.8	42.8	45.8	45.8	44.3	42.8
90°	4.5	8.1	11.8	12.6	19.9	29.5	34.3	30.4	22.8	17.2	17.2
92.5°	18.1	48.7	79.4	87.1	122.5	169.7	193.2	169.3	121.6	85.8	82.4
95°	43.3	99.5	155.7	169.8	301.5	477.0	564.8	504.0	382.5	291.3	280.9
97.5°	74.9	124.4	174.1	186.4	406.0	698.8	845.2	806.7	729.9	672.3	652.6
100°	99.3	144.3	189.2	200.5	444.1	769.0	931.4	934.2	939.9	944.1	920.6
102.5°	120.1	162.0	204.0	214.4	461.6	791.1	955.8	1004.8	1102.8	1176.2	1156.1
105°	155.3	190.9	226.4	235.3	474.6	793.6	953.1	1062.9	1282.4	1447.1	1436.2
107.5°	191.4	224.5	257.7	266.0	477.0	758.3	899.0	1052.1	1358.3	1587.9	1590.5
110°	215.8	245.7	275.6	283.1	473.3	727.0	853.8	1025.0	1367.3	1624.1	1635.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	239.7	268.2	296.7	303.8	473.4	699.6	812.7	987.9	1338.3	1601.1	1618.3
115°	275.8	302.2	328.5	335.0	477.9	668.2	763.5	932.2	1269.8	1522.9	1546.8
117.5°	311.6	335.5	359.4	365.3	486.8	648.7	729.6	881.9	1186.5	1415.0	1441.5
120°	332.3	354.8	377.3	382.9	494.0	642.1	716.1	855.3	1133.6	1342.3	1368.1
122.5°	352.7	375.3	398.0	403.7	504.4	638.6	705.7	831.0	1081.7	1269.6	1295.1
125°	383.8	404.4	425.1	430.3	518.3	635.7	694.4	800.9	1013.7	1173.4	1196.9
127.5°	409.1	429.9	450.8	456.0	532.3	634.1	684.9	776.3	959.2	1096.2	1116.0
130°	422.6	445.1	467.6	473.2	542.6	635.1	681.3	762.7	925.4	1047.5	1065.7
132.5°	436.6	459.1	481.6	487.2	550.9	635.7	678.2	751.0	896.7	1006.0	1022.3
135°	457.4	477.9	498.3	503.4	559.8	635.1	672.8	733.8	855.8	947.3	961.4
137.5°	478.6	498.8	519.1	524.2	573.4	639.0	671.8	723.4	826.5	903.9	915.4
140°	496.2	514.8	533.5	538.2	581.7	639.7	668.7	713.2	802.4	869.2	880.0
142.5°	509.7	527.0	544.2	548.6	588.6	642.0	668.7	707.8	786.1	844.7	854.0
145°	530.5	545.5	560.6	564.4	597.6	642.0	664.1	696.1	760.2	808.2	815.3
147.5°	551.3	566.0	580.6	584.3	610.9	646.4	664.1	689.3	739.7	777.5	783.3
150°	564.8	578.1	591.3	594.6	617.8	648.7	664.1	685.4	728.0	759.9	764.6
152.5°	578.9	588.9	598.9	601.4	622.4	650.2	664.1	682.3	718.6	745.9	749.4
155°	599.6	607.0	614.4	616.3	632.2	653.5	664.1	678.6	707.5	729.2	731.5
157.5°	615.0	622.2	629.3	631.2	642.2	656.8	664.1	675.4	697.9	714.7	716.4
160°	625.3	630.9	636.6	638.0	646.7	658.3	664.1	673.7	693.0	707.5	708.4
162.5°	635.7	639.9	644.2	645.2	651.5	660.0	664.1	672.3	688.6	700.8	701.6
165°	647.0	650.8	654.6	655.6	658.5	662.2	664.1	670.0	681.6	690.3	691.3
167.5°	657.4	659.2	661.0	661.4	663.9	667.1	668.7	672.5	680.1	685.9	686.3
170°	664.1	666.0	667.8	668.2	668.4	668.6	668.7	672.5	680.1	685.9	685.9
172.5°	667.8	668.2	668.6	668.7	668.7	668.7	668.7	671.6	677.7	682.2	681.8
175°	672.8	672.8	672.8	672.8	671.4	669.5	668.7	670.6	674.3	677.2	677.2
177.5°	672.8	672.8	672.8	672.8	671.7	670.2	669.5	671.0	674.1	676.3	675.9
180°	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8	672.8



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	458.9	458.9
2.5°	489.9	486.9
5°	630.0	633.0
7.5°	848.5	847.0
10°	1055.0	1068.3
12.5°	1205.5	1208.5
15°	1297.1	1302.9
17.5°	1332.5	1334.0
20°	1334.0	1331.0
22.5°	1317.6	1314.8
25°	1298.5	1297.1
27.5°	1280.8	1282.2
30°	1273.4	1277.9
32.5°	1273.4	1280.8
35°	1276.4	1283.7
37.5°	1274.9	1283.7
40°	1269.0	1279.3
42.5°	1252.8	1260.1
45°	1227.6	1236.5
47.5°	1195.2	1201.1
50°	1153.9	1159.8
52.5°	1102.3	1103.7
55°	1040.2	1046.2
57.5°	973.9	975.4
60°	900.1	904.6
62.5°	821.9	821.9
65°	739.2	742.2
67.5°	653.7	661.1
70°	566.6	568.1
72.5°	481.0	481.0
75°	392.5	394.0
77.5°	308.4	308.4
80°	228.7	230.2
82.5°	157.9	160.8
85°	98.9	98.9
87.5°	45.8	41.3
90°	17.2	17.2
92.5°	68.7	55.1
95°	239.5	198.2
97.5°	574.0	495.3
100°	826.9	733.2
102.5°	1075.8	995.6
105°	1393.2	1350.0
107.5°	1601.0	1611.4
110°	1680.2	1725.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1687.3	1756.4
115°	1642.6	1738.3
117.5°	1547.7	1653.8
120°	1471.2	1574.4
122.5°	1396.7	1498.5
125°	1290.5	1384.3
127.5°	1195.0	1274.1
130°	1138.8	1211.9
132.5°	1087.7	1153.1
135°	1017.8	1074.1
137.5°	961.6	1007.7
140°	923.0	966.2
142.5°	891.1	928.3
145°	843.3	871.4
147.5°	806.5	829.8
150°	783.5	802.4
152.5°	763.6	777.9
155°	741.0	750.4
157.5°	723.0	729.6
160°	712.3	716.1
162.5°	705.3	708.9
165°	695.1	698.9
167.5°	687.9	689.4
170°	685.9	685.9
172.5°	680.4	679.1
175°	677.2	677.2
177.5°	674.3	672.8
180°	672.8	672.8



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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	5.54	6.39	6.53	7.40	8.74	18.68	19.53	19.67	20.54	21.88
	3H	6.25	7.01	7.25	8.03	9.39	20.50	21.27	21.50	22.28	23.64
	4H	6.54	7.27	7.56	8.29	9.66	21.14	21.86	22.15	22.88	24.25
	6H	6.79	7.46	7.82	8.49	9.87	21.55	22.22	22.58	23.25	24.63
	8H	6.86	7.50	7.89	8.54	9.92	21.67	22.30	22.70	23.35	24.72
	12H	6.88	7.49	7.92	8.52	9.92	21.73	22.33	22.77	23.37	24.77
4H	2H	12.73	13.45	13.75	14.47	15.84	18.95	19.68	19.97	20.70	22.07
	3H	14.30	14.90	15.33	15.95	17.34	20.98	21.59	22.01	22.64	24.02
	4H	14.39	14.95	15.43	15.99	17.39	21.74	22.30	22.78	23.34	24.74
	6H	14.40	14.88	15.45	15.95	17.35	22.27	22.74	23.31	23.81	25.21
	8H	14.38	14.83	15.43	15.89	17.30	22.42	22.87	23.47	23.93	25.34
	12H	14.34	14.74	15.41	15.81	17.23	22.50	22.91	23.57	23.98	25.40
8H	4H	15.83	16.27	16.88	17.33	18.75	21.80	22.25	22.85	23.30	24.72
	6H	16.07	16.44	17.14	17.54	18.95	22.42	22.79	23.49	23.89	25.30
	8H	16.09	16.41	17.17	17.50	18.93	22.63	22.95	23.71	24.04	25.47
	12H	16.05	16.34	17.14	17.42	18.89	22.76	23.05	23.85	24.13	25.60
12H	4H	15.97	16.37	17.03	17.44	18.86	21.75	22.16	22.82	23.23	24.65
	6H	16.32	16.65	17.40	17.73	19.16	22.40	22.73	23.48	23.81	25.24
	8H	16.39	16.68	17.48	17.76	19.23	22.62	22.91	23.71	23.99	25.46