

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: P938135

Luminaire Tested: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938135
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-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

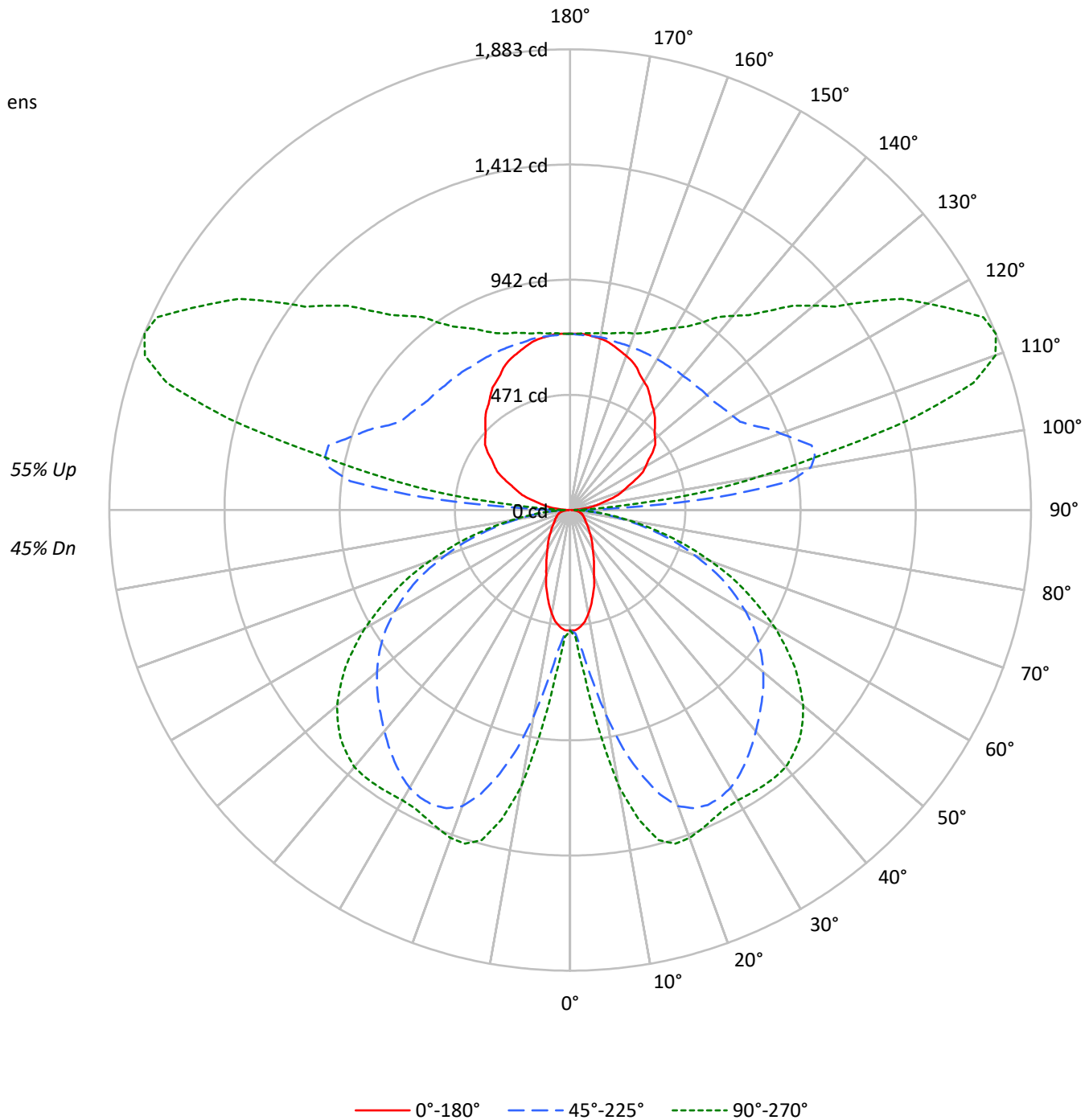
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8482.5 lumens
Efficiency: N/A
Efficacy: 112.8 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

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CATALOG NUMBER: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-4-5000K

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°	4564	4564	4564
5°	4454	5272	6135
10°	4036	7679	10171
15°	3426	10024	12281
20°	2786	11609	12516
25°	2322	12139	12263
30°	1955	12205	12239
35°	1726	11993	12556
40°	1502	11721	12882
45°	1357	11518	12933
50°	1242	11333	12720
55°	1186	11066	12156
60°	1210	10566	11266
65°	1252	9812	10041
70°	1325	8539	8484
75°	1453	6946	6620
80°	1554	4799	4462
85°	1308	2533	2284

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
 Vertical Angle: 45°
 Luminance: 12933 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.6	0.8
10°-20°	282.0	3.3
20°-30°	493.3	5.8
30°-40°	635.0	7.5
40°-50°	709.2	8.4
50°-60°	679.3	8.0
60°-70°	538.3	6.3
70°-80°	316.6	3.7
80°-90°	90.7	1.1
90°-100°	351.5	4.1
100°-110°	924.1	10.9
110°-120°	958.2	11.3
120°-130°	768.6	9.1
130°-140°	603.1	7.1
140°-150°	462.9	5.5
150°-160°	333.3	3.9
160°-170°	204.0	2.4
170°-180°	68.9	0.8
0°-30°	838.9	9.9
0°-40°	1473.9	17.4
0°-60°	2862.4	33.7
0°-90°	3808.0	44.9
90°-120°	2233.8	26.3
90°-150°	4068.3	48.0
90°-180°	4675.0	55.1
0°-180°	8482.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	492	492	492	492	492	
5°	479	514	579	655	678	44
15°	359	663	1117	1354	1396	100
25°	229	751	1330	1389	1390	106
35°	155	718	1253	1324	1376	97
45°	106	572	1107	1268	1325	82
55°	76	364	940	1091	1121	69
65°	60	193	698	784	796	60
75°	44	119	383	421	422	46
85°	16	36	95	104	106	17
90°	5	14	37	18	18	5
95°	46	182	605	312	212	52
105°	166	252	1022	1551	1447	176
115°	296	359	818	1632	1863	292
125°	411	461	744	1258	1484	365
135°	490	540	721	1015	1151	379
145°	569	605	712	866	934	356
155°	643	661	712	782	804	295
165°	694	703	712	740	749	196
175°	721	721	717	726	726	68
180°	721	721	721	721	721	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8	491.8
2.5°	491.8	491.8	495.0	496.6	499.8	501.4	504.6	507.7	517.2	518.8	521.9
5°	479.2	485.6	506.1	514.0	536.1	566.2	578.9	599.4	642.1	654.8	662.7
7.5°	460.2	474.5	525.1	537.7	593.1	672.1	705.4	749.7	817.7	850.9	877.8
10°	430.2	460.2	550.4	580.5	670.6	790.8	852.5	914.1	1017.0	1062.9	1080.2
12.5°	397.0	446.0	577.3	618.4	748.1	923.7	998.0	1066.0	1183.1	1244.7	1254.2
15°	359.0	425.5	602.6	662.7	830.3	1034.3	1116.6	1200.4	1309.6	1353.8	1365.0
17.5°	325.8	409.7	626.3	689.6	893.6	1134.0	1217.8	1287.5	1376.0	1406.1	1413.9
20°	284.7	384.4	642.1	724.4	960.0	1206.8	1287.5	1341.2	1401.3	1420.3	1423.5
22.5°	254.6	357.4	651.6	737.0	1004.3	1251.0	1319.1	1361.8	1402.9	1409.3	1410.8
25°	229.4	327.4	650.1	751.2	1042.3	1277.9	1330.2	1361.8	1385.5	1388.7	1388.7
27.5°	205.6	294.2	643.7	754.4	1070.7	1284.3	1325.4	1347.6	1358.6	1365.0	1365.0
30°	185.1	262.6	627.9	748.1	1083.4	1277.9	1311.1	1322.2	1333.3	1342.8	1347.6
32.5°	169.3	232.5	604.2	735.4	1085.0	1262.1	1285.9	1292.1	1308.0	1330.2	1338.0
35°	155.0	202.5	577.3	718.0	1075.5	1236.8	1252.6	1259.0	1290.5	1323.8	1334.9
37.5°	140.8	180.3	542.5	688.0	1061.3	1206.8	1217.8	1229.0	1277.9	1317.5	1330.2
40°	126.6	161.3	501.4	654.8	1039.1	1170.3	1179.9	1197.3	1262.1	1308.0	1320.6
42.5°	115.4	145.5	457.1	620.0	1010.6	1129.3	1143.5	1168.8	1243.2	1292.1	1306.4
45°	106.0	129.7	409.7	572.5	974.2	1086.6	1107.2	1141.9	1221.0	1268.5	1281.1
47.5°	96.5	118.6	360.6	523.5	934.7	1043.9	1070.7	1110.3	1190.9	1236.8	1247.9
50°	88.6	107.6	311.5	471.3	892.0	998.0	1029.7	1070.7	1153.0	1195.7	1210.0
52.5°	82.3	98.1	265.7	419.1	843.0	950.5	987.0	1029.7	1107.2	1148.3	1157.7
55°	75.9	90.1	226.2	363.8	792.4	899.9	939.5	980.6	1056.5	1091.3	1097.6
57.5°	72.7	83.8	192.9	311.5	738.6	843.0	887.3	925.3	996.4	1023.3	1029.7
60°	68.0	79.1	167.7	267.3	680.1	789.3	827.2	865.2	925.3	947.4	952.1
62.5°	63.3	75.9	148.7	224.6	620.0	726.0	763.9	798.7	849.4	865.2	871.4
65°	60.1	72.7	134.4	192.9	558.3	659.5	697.5	727.6	768.7	784.5	787.7
67.5°	56.9	69.6	123.4	166.1	496.6	593.1	621.6	650.1	681.7	697.5	699.1
70°	52.2	66.5	113.8	147.1	433.3	517.2	540.9	570.9	596.2	604.2	609.0
72.5°	49.1	61.7	107.6	132.8	368.6	444.5	466.6	484.0	506.1	514.0	514.0
75°	44.3	55.3	101.2	118.6	302.1	363.8	382.8	400.1	417.5	420.7	415.9
77.5°	39.5	49.1	87.0	99.6	235.6	287.9	303.7	313.1	327.4	330.5	332.1
80°	33.2	42.7	68.0	77.5	170.8	211.9	223.0	230.9	243.6	243.6	246.8
82.5°	25.3	33.2	49.1	55.3	115.4	145.5	155.0	159.7	167.7	167.7	167.7
85°	15.8	20.6	31.6	36.4	69.6	88.6	94.9	96.5	102.8	104.4	104.4
87.5°	7.9	11.0	20.6	22.2	36.4	45.9	45.9	49.1	49.1	47.5	45.9
90°	4.9	8.7	12.6	13.6	21.3	31.6	36.7	32.6	24.5	18.4	18.4
92.5°	19.3	52.3	85.2	93.4	131.3	181.9	207.1	181.5	130.4	92.0	88.3
95°	46.5	106.6	166.9	182.0	323.1	511.3	605.4	540.3	410.0	312.2	301.1
97.5°	80.3	133.4	186.6	199.8	435.2	749.0	905.9	864.7	782.3	720.6	699.5
100°	106.5	154.7	202.8	214.9	476.0	824.2	998.4	1001.4	1007.4	1011.9	986.8
102.5°	128.7	173.7	218.6	229.8	494.7	848.0	1024.5	1077.1	1182.0	1260.7	1239.2
105°	166.5	204.6	242.6	252.2	508.7	850.7	1021.6	1139.3	1374.6	1551.1	1539.5
107.5°	205.2	240.7	276.2	285.1	511.3	812.8	963.6	1127.7	1455.9	1702.0	1704.8
110°	231.3	263.4	295.4	303.4	507.4	779.3	915.2	1098.7	1465.6	1740.8	1752.9



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CATALOG NUMBER: SQ4-FB-125U-125D-92765-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	257.0	287.5	318.0	325.7	507.5	749.9	871.1	1058.9	1434.5	1716.1	1734.6
115°	295.6	323.9	352.1	359.1	512.2	716.3	818.3	999.2	1361.0	1632.4	1658.0
117.5°	334.0	359.6	385.2	391.5	521.8	695.3	782.1	945.3	1271.8	1516.7	1545.1
120°	356.2	380.3	404.4	410.4	529.5	688.2	767.6	916.8	1215.0	1438.8	1466.5
122.5°	378.0	402.3	426.6	432.7	540.6	684.5	756.5	890.8	1159.4	1360.8	1388.1
125°	411.4	433.5	455.7	461.2	555.6	681.4	744.3	858.4	1086.6	1257.7	1282.9
127.5°	438.5	460.8	483.1	488.8	570.5	679.6	734.1	832.1	1028.1	1175.0	1196.2
130°	453.0	477.1	501.2	507.2	581.6	680.7	730.3	817.5	991.9	1122.8	1142.3
132.5°	468.0	492.1	516.2	522.2	590.5	681.4	726.9	805.0	961.2	1078.3	1095.8
135°	490.3	512.2	534.1	539.6	600.1	680.7	721.1	786.6	917.3	1015.4	1030.5
137.5°	513.0	534.7	556.4	561.9	614.6	685.0	720.1	775.3	885.9	968.8	981.2
140°	531.8	551.9	571.9	576.9	623.5	685.7	716.7	764.5	860.0	931.6	943.2
142.5°	546.3	564.8	583.4	588.0	630.9	688.1	716.7	758.7	842.5	905.4	915.4
145°	568.7	584.8	600.9	604.9	640.6	688.1	711.9	746.2	814.8	866.3	873.9
147.5°	590.9	606.6	622.3	626.3	654.8	692.8	711.9	738.9	792.9	833.4	839.6
150°	605.4	619.6	633.8	637.4	662.2	695.3	711.9	734.7	780.3	814.5	819.6
152.5°	620.5	631.2	642.0	644.7	667.1	696.9	711.9	731.3	770.3	799.5	803.3
155°	642.7	650.6	658.6	660.6	677.7	700.5	711.9	727.4	758.3	781.6	784.1
157.5°	659.2	666.9	674.6	676.5	688.3	704.0	711.9	723.9	748.0	766.1	767.9
160°	670.3	676.3	682.3	683.8	693.2	705.6	711.9	722.2	742.8	758.3	759.4
162.5°	681.4	685.9	690.5	691.6	698.3	707.4	711.9	720.6	738.0	751.1	752.1
165°	693.5	697.6	701.7	702.7	705.8	709.8	711.9	718.1	730.6	739.9	740.9
167.5°	704.7	706.5	708.5	709.0	711.6	715.1	716.7	720.8	729.0	735.1	735.6
170°	711.9	713.8	715.8	716.3	716.5	716.6	716.7	720.8	729.0	735.1	735.1
172.5°	715.8	716.2	716.6	716.7	716.7	716.7	716.7	719.9	726.4	731.2	730.8
175°	721.1	721.1	721.1	721.1	719.6	717.7	716.7	718.8	722.8	725.9	725.9
177.5°	721.1	721.1	721.1	721.1	720.0	718.4	717.7	719.3	722.5	725.0	724.5
180°	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1	721.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	491.8	491.8
2.5°	525.1	521.9
5°	675.3	678.5
7.5°	909.5	907.9
10°	1130.8	1145.1
12.5°	1292.1	1295.3
15°	1390.3	1396.5
17.5°	1428.2	1429.8
20°	1429.8	1426.6
22.5°	1412.3	1409.3
25°	1391.8	1390.3
27.5°	1372.8	1374.4
30°	1365.0	1369.7
32.5°	1365.0	1372.8
35°	1368.1	1376.0
37.5°	1366.5	1376.0
40°	1360.2	1371.2
42.5°	1342.8	1350.7
45°	1315.9	1325.4
47.5°	1281.1	1287.5
50°	1236.8	1243.2
52.5°	1181.5	1183.1
55°	1115.0	1121.4
57.5°	1043.9	1045.5
60°	964.8	969.6
62.5°	881.0	881.0
65°	792.4	795.5
67.5°	700.7	708.6
70°	607.4	609.0
72.5°	515.6	515.6
75°	420.7	422.3
77.5°	330.5	330.5
80°	245.2	246.8
82.5°	169.3	172.4
85°	106.0	106.0
87.5°	49.1	44.3
90°	18.4	18.4
92.5°	73.7	59.1
95°	256.8	212.5
97.5°	615.2	530.9
100°	886.4	785.9
102.5°	1153.1	1067.2
105°	1493.3	1447.0
107.5°	1716.0	1727.2
110°	1801.0	1849.1



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	1808.6	1882.6
115°	1760.6	1863.2
117.5°	1658.9	1772.7
120°	1576.9	1687.5
122.5°	1497.1	1606.2
125°	1383.3	1483.8
127.5°	1280.9	1365.7
130°	1220.6	1299.0
132.5°	1165.9	1236.0
135°	1090.9	1151.3
137.5°	1030.7	1080.1
140°	989.4	1035.7
142.5°	955.2	995.0
145°	904.0	934.1
147.5°	864.5	889.5
150°	839.8	860.0
152.5°	818.5	833.9
155°	794.2	804.3
157.5°	775.0	782.1
160°	763.5	767.6
162.5°	756.0	759.8
165°	745.1	749.2
167.5°	737.3	739.0
170°	735.1	735.1
172.5°	729.4	727.9
175°	725.9	725.9
177.5°	722.8	721.1
180°	721.1	721.1



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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	5.78	6.63	6.77	7.64	8.98	18.92	19.77	19.91	20.78	22.12
	3H	6.49	7.25	7.49	8.27	9.63	20.74	21.51	21.75	22.53	23.89
	4H	6.78	7.51	7.80	8.53	9.90	21.38	22.10	22.39	23.12	24.49
	6H	7.03	7.70	8.06	8.73	10.11	21.80	22.46	22.82	23.49	24.87
	8H	7.10	7.74	8.13	8.78	10.16	21.91	22.55	22.94	23.59	24.96
	12H	7.12	7.72	8.16	8.76	10.16	21.97	22.58	23.01	23.61	25.01
4H	2H	12.97	13.69	13.99	14.72	16.08	19.19	19.92	20.22	20.94	22.31
	3H	14.54	15.15	15.57	16.20	17.58	21.22	21.83	22.26	22.88	24.26
	4H	14.63	15.19	15.67	16.23	17.63	21.98	22.54	23.02	23.58	24.98
	6H	14.64	15.12	15.69	16.19	17.59	22.51	22.99	23.55	24.05	25.45
	8H	14.62	15.07	15.67	16.13	17.54	22.66	23.11	23.71	24.17	25.58
	12H	14.58	14.98	15.65	16.05	17.48	22.75	23.15	23.81	24.22	25.64
8H	4H	16.07	16.52	17.12	17.57	18.99	22.04	22.49	23.09	23.55	24.96
	6H	16.31	16.68	17.38	17.78	19.19	22.66	23.03	23.73	24.13	25.54
	8H	16.33	16.65	17.41	17.74	19.17	22.87	23.20	23.95	24.28	25.71
	12H	16.30	16.58	17.38	17.66	19.13	23.00	23.29	24.09	24.37	25.84
12H	4H	16.21	16.61	17.28	17.68	19.10	21.99	22.40	23.06	23.47	24.89
	6H	16.56	16.89	17.64	17.97	19.41	22.64	22.97	23.72	24.05	25.48
	8H	16.63	16.92	17.72	18.00	19.47	22.86	23.15	23.95	24.23	25.70