

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: P938528

Luminaire Tested: SQ4-FB-150U-125D-92765-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938528
REPORT IS A COMBINATION OF REPORTS P933624 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-150U-125D-92765-1D-UNV-STD-W-12-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

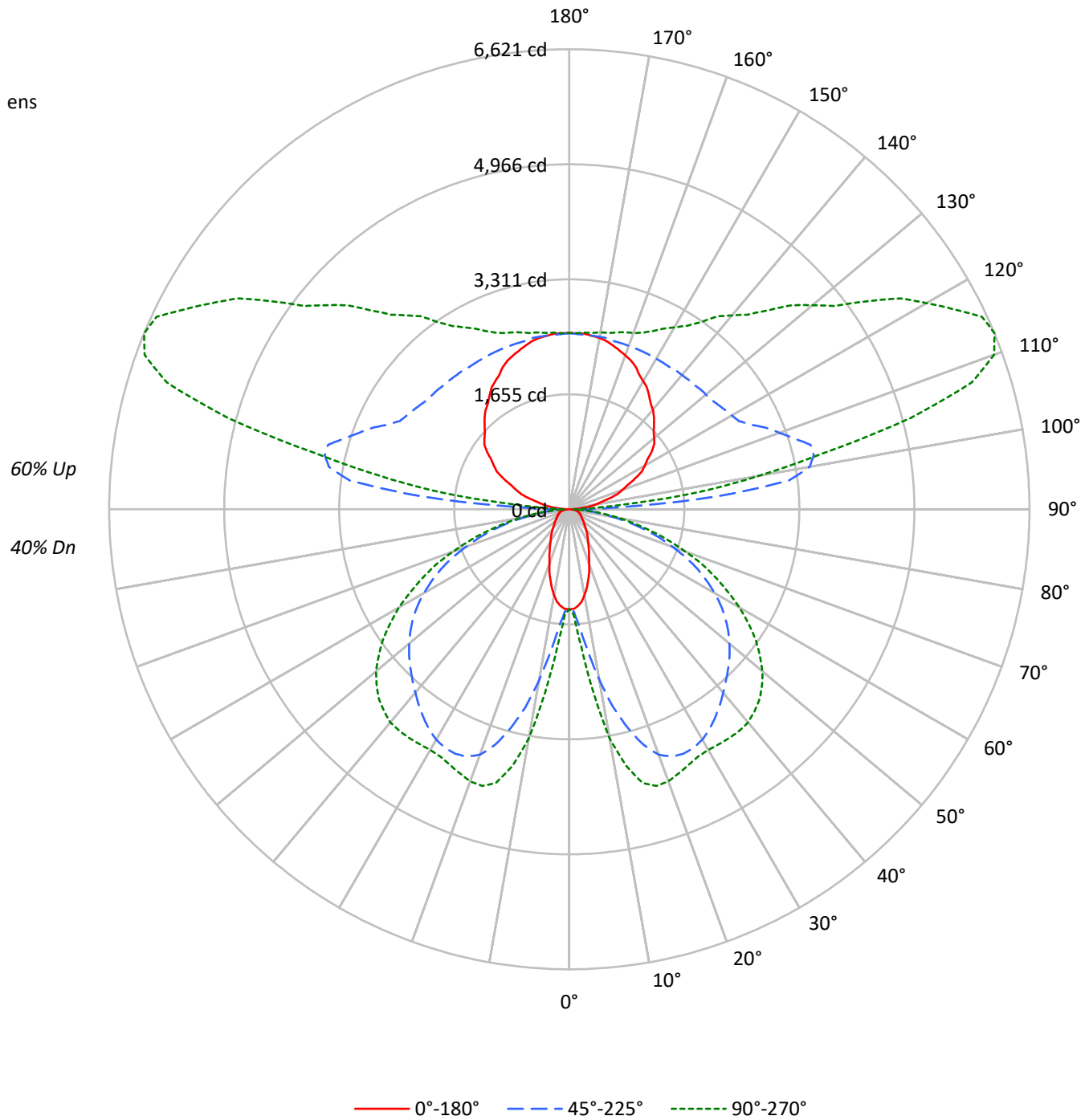
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27560.2 lumens
Efficiency: N/A
Efficacy: 110.4 lumens/watt
Spacing Criteria (0/90/45): 0.71 / 2.69 / 2.33
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 249.6
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

TEST NUMBER: P938528
CATALOG NUMBER: SQ4-FB-150U-125D-92765-1D-UNV-STD-W-12-4000K

Luminous Intensity Polar Plot





TEST NUMBER: P938528

CATALOG NUMBER: SQ4-FB-150U-125D-92765-1D-UNV-STD-W-12-4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	185.8	0.7
10°-20°	823.4	3.0
20°-30°	1440.2	5.2
30°-40°	1854.0	6.7
40°-50°	2070.8	7.5
50°-60°	1983.4	7.2
60°-70°	1571.8	5.7
70°-80°	924.3	3.4
80°-90°	266.5	1.0
90°-100°	1236.2	4.5
100°-110°	3250.0	11.8
110°-120°	3369.9	12.2
120°-130°	2703.1	9.8
130°-140°	2121.0	7.7
140°-150°	1627.9	5.9
150°-160°	1172.4	4.3
160°-170°	717.3	2.6
170°-180°	242.3	0.9
0°-30°	2449.3	8.9
0°-40°	4303.3	15.6
0°-60°	8357.5	30.3
0°-90°	11120.0	40.3
90°-120°	7856.1	28.5
90°-150°	14308.1	51.9
90°-180°	16440.0	59.7
0°-180°	27560.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1436	1436	1436	1436	1436	
5°	1399	1501	1690	1912	1981	129
15°	1048	1935	3260	3953	4078	292
25°	670	2194	3884	4054	4059	308
35°	452	2096	3657	3865	4018	283
45°	309	1672	3233	3704	3870	239
55°	222	1062	2743	3186	3274	202
65°	176	563	2036	2290	2323	174
75°	129	346	1118	1228	1233	135
85°	46	106	277	305	309	49
90°	17	48	129	65	65	17
95°	163	640	2129	1098	747	181
105°	586	887	3593	5455	5089	621
115°	1040	1263	2878	5741	6553	1027
125°	1447	1622	2618	4424	5218	1284
135°	1724	1898	2536	3571	4049	1334
145°	2000	2128	2504	3047	3285	1253
155°	2260	2323	2504	2749	2829	1039
165°	2439	2471	2504	2602	2635	688
175°	2536	2536	2521	2553	2553	241
180°	2536	2536	2536	2536	2536	



TEST NUMBER: P938528

CATALOG NUMBER: SQ4-FB-150U-125D-92765-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2	1436.2
2.5°	1436.2	1436.2	1445.4	1450.1	1459.2	1463.9	1473.2	1482.3	1510.1	1514.7	1523.9
5°	1399.2	1417.7	1477.7	1500.8	1565.5	1653.3	1690.2	1750.2	1874.9	1911.9	1934.9
7.5°	1343.8	1385.4	1533.2	1570.1	1731.8	1962.6	2059.6	2189.0	2387.5	2484.5	2563.0
10°	1256.1	1343.8	1607.1	1694.7	1958.0	2308.9	2489.0	2669.1	2969.3	3103.2	3154.1
12.5°	1159.2	1302.2	1685.6	1805.6	2184.3	2696.9	2913.9	3112.5	3454.3	3634.4	3662.0
15°	1048.3	1242.2	1759.4	1934.9	2424.5	3020.2	3260.2	3505.0	3823.7	3953.0	3985.3
17.5°	951.3	1196.1	1828.7	2013.4	2609.1	3311.1	3555.9	3759.0	4017.6	4105.4	4128.5
20°	831.2	1122.1	1874.9	2115.0	2803.1	3523.5	3759.0	3916.0	4091.5	4146.9	4156.1
22.5°	743.4	1043.6	1902.6	2151.9	2932.4	3652.8	3851.4	3976.0	4096.1	4114.6	4119.2
25°	669.6	955.9	1898.0	2193.5	3043.2	3731.3	3883.7	3976.0	4045.3	4054.5	4054.5
27.5°	600.4	859.0	1879.5	2202.8	3126.3	3749.8	3869.9	3934.5	3966.8	3985.3	3985.3
30°	540.3	766.6	1833.3	2184.3	3163.3	3731.3	3828.3	3860.6	3893.0	3920.6	3934.5
32.5°	494.1	678.9	1764.1	2147.4	3167.9	3685.1	3754.4	3772.9	3819.0	3883.7	3906.8
35°	452.5	591.1	1685.6	2096.5	3140.2	3611.3	3657.4	3675.9	3768.3	3865.2	3897.5
37.5°	411.0	526.4	1584.0	2008.8	3098.7	3523.5	3555.9	3588.2	3731.3	3846.8	3883.7
40°	369.4	471.0	1463.9	1911.9	3034.0	3417.3	3445.0	3495.8	3685.1	3819.0	3856.0
42.5°	337.1	424.9	1334.6	1810.3	2950.9	3297.3	3338.8	3412.7	3629.7	3772.9	3814.5
45°	309.4	378.7	1196.1	1671.7	2844.6	3172.5	3232.6	3334.2	3565.0	3703.6	3740.5
47.5°	281.7	346.4	1052.9	1528.6	2729.2	3047.8	3126.3	3241.8	3477.4	3611.3	3643.6
50°	258.6	314.0	909.7	1376.2	2604.6	2913.9	3006.3	3126.3	3366.5	3491.2	3532.8
52.5°	240.1	286.4	775.8	1223.7	2461.4	2775.4	2881.6	3006.3	3232.6	3352.6	3380.3
55°	221.7	263.2	660.4	1062.1	2313.6	2627.6	2743.1	2863.2	3084.8	3186.4	3204.8
57.5°	212.4	244.8	563.4	909.7	2156.6	2461.4	2590.6	2701.5	2909.3	2987.8	3006.3
60°	198.6	230.9	489.5	780.5	1985.7	2304.4	2415.2	2526.1	2701.5	2766.1	2780.0
62.5°	184.7	221.7	434.1	655.8	1810.3	2119.6	2230.4	2332.0	2479.9	2526.1	2544.5
65°	175.5	212.4	392.5	563.4	1630.2	1925.7	2036.5	2124.3	2244.3	2290.5	2299.7
67.5°	166.3	203.2	360.2	484.9	1450.1	1731.8	1814.8	1898.0	1990.4	2036.5	2041.1
70°	152.4	193.9	332.5	429.4	1265.3	1510.1	1579.3	1667.1	1741.0	1764.1	1777.9
72.5°	143.2	180.1	314.0	387.9	1076.0	1297.7	1362.3	1413.1	1477.7	1500.8	1500.8
75°	129.3	161.6	295.5	346.4	882.0	1062.1	1117.6	1168.3	1219.1	1228.4	1214.5
77.5°	115.4	143.2	254.0	290.9	688.0	840.5	886.6	914.4	955.9	965.1	969.8
80°	97.0	124.7	198.6	226.3	498.8	618.8	651.1	674.2	711.2	711.2	720.4
82.5°	73.9	97.0	143.2	161.6	337.1	424.9	452.5	466.4	489.5	489.5	489.5
85°	46.2	60.0	92.3	106.2	203.2	258.6	277.1	281.7	300.2	304.8	304.8
87.5°	23.1	32.3	60.0	64.7	106.2	133.9	133.9	143.2	143.2	138.5	133.9
90°	17.0	30.7	44.3	47.7	74.9	111.2	129.4	115.0	86.2	64.7	64.7
92.5°	68.0	183.7	299.5	328.5	461.8	639.6	728.4	638.4	458.4	323.4	310.6
95°	163.4	375.1	587.0	639.9	1136.4	1798.4	2129.3	1900.0	1441.7	1097.8	1058.9
97.5°	282.5	469.4	656.2	703.0	1530.7	2634.4	3186.2	3041.4	2751.7	2534.3	2460.2
100°	374.4	543.9	713.3	755.7	1674.3	2898.9	3511.3	3521.8	3543.0	3559.0	3470.6
102.5°	452.7	610.8	768.9	808.5	1740.0	2982.2	3603.3	3787.8	4157.0	4433.8	4358.2
105°	585.5	719.4	853.3	886.8	1788.9	2991.6	3593.0	4006.8	4834.4	5455.0	5414.3
107.5°	721.7	846.5	971.3	1002.5	1797.9	2858.4	3388.8	3965.9	5120.3	5986.0	5995.9
110°	813.6	926.3	1039.0	1067.2	1784.3	2740.5	3218.6	3863.9	5154.4	6122.2	6164.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	903.8	1011.2	1118.7	1145.5	1784.9	2637.4	3063.7	3724.1	5044.8	6035.4	6100.5
115°	1040.0	1139.0	1238.2	1262.9	1801.4	2519.2	2878.2	3514.4	4786.7	5741.0	5831.2
117.5°	1174.4	1264.4	1354.4	1376.9	1834.7	2445.2	2750.5	3324.6	4473.0	5334.2	5434.3
120°	1252.7	1337.4	1422.1	1443.3	1862.0	2420.3	2699.4	3224.0	4273.2	5060.1	5157.4
122.5°	1329.3	1414.8	1500.3	1521.6	1901.2	2407.3	2660.3	3132.7	4077.5	4786.1	4882.0
125°	1446.8	1524.6	1602.6	1622.1	1954.0	2396.5	2617.8	3019.1	3821.7	4423.6	4511.9
127.5°	1542.0	1620.7	1699.4	1719.0	2006.7	2390.3	2582.0	2926.6	3615.7	4132.6	4207.1
130°	1593.1	1677.8	1762.5	1783.7	2045.2	2394.0	2568.4	2875.1	3488.6	3948.7	4017.6
132.5°	1645.9	1730.6	1815.3	1836.5	2076.4	2396.4	2556.4	2831.1	3380.3	3792.2	3853.9
135°	1724.1	1801.3	1878.5	1897.8	2110.5	2394.3	2536.1	2766.0	3225.9	3570.9	3624.0
137.5°	1804.2	1880.6	1957.0	1976.1	2161.6	2408.9	2532.6	2727.0	3115.9	3407.5	3451.0
140°	1870.6	1940.9	2011.3	2028.9	2192.8	2411.4	2520.7	2688.6	3024.5	3276.4	3317.1
142.5°	1921.6	1986.6	2051.7	2068.0	2218.9	2420.1	2520.7	2668.2	2963.2	3184.5	3219.6
145°	1999.9	2056.7	2113.4	2127.5	2252.9	2420.1	2503.7	2624.3	2865.6	3046.6	3073.1
147.5°	2078.2	2133.4	2188.6	2202.4	2302.8	2436.7	2503.7	2598.7	2788.5	2930.9	2952.9
150°	2129.3	2179.2	2229.2	2241.6	2328.9	2445.5	2503.7	2583.9	2744.3	2864.5	2882.3
152.5°	2182.0	2219.9	2257.6	2267.1	2346.0	2451.1	2503.7	2572.2	2709.1	2811.8	2825.2
155°	2260.4	2288.4	2316.3	2323.3	2383.4	2463.6	2503.7	2558.2	2667.1	2748.8	2757.7
157.5°	2318.2	2345.4	2372.6	2379.4	2420.8	2476.0	2503.7	2546.1	2630.8	2694.3	2700.6
160°	2357.3	2378.5	2399.7	2405.0	2437.9	2481.8	2503.7	2540.0	2612.6	2667.1	2670.7
162.5°	2396.4	2412.4	2428.2	2432.2	2456.0	2487.8	2503.7	2534.3	2595.6	2641.6	2645.0
165°	2439.0	2453.4	2467.8	2471.4	2482.1	2496.5	2503.7	2525.6	2569.5	2602.4	2606.0
167.5°	2478.2	2485.0	2491.8	2493.5	2502.6	2514.7	2520.7	2535.1	2563.8	2585.4	2586.9
170°	2503.7	2510.5	2517.3	2519.1	2519.6	2520.3	2520.7	2535.1	2563.8	2585.4	2585.4
172.5°	2517.3	2518.8	2520.3	2520.7	2520.7	2520.7	2520.7	2532.1	2554.8	2571.8	2570.5
175°	2536.1	2536.1	2536.1	2536.1	2531.0	2524.2	2520.7	2527.9	2542.3	2553.1	2553.1
177.5°	2536.1	2536.1	2536.1	2536.1	2532.1	2526.8	2524.2	2529.8	2541.2	2549.6	2548.1
180°	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1	2536.1



TEST NUMBER: P938528

CATALOG NUMBER: SQ4-FB-150U-125D-92765-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	1436.2	1436.2
2.5°	1533.2	1523.9
5°	1971.9	1981.1
7.5°	2655.3	2650.7
10°	3301.8	3343.4
12.5°	3772.9	3782.1
15°	4059.2	4077.6
17.5°	4170.0	4174.6
20°	4174.6	4165.4
22.5°	4123.8	4114.6
25°	4063.8	4059.2
27.5°	4008.4	4013.0
30°	3985.3	3999.1
32.5°	3985.3	4008.4
35°	3994.5	4017.6
37.5°	3989.9	4017.6
40°	3971.5	4003.8
42.5°	3920.6	3943.7
45°	3842.1	3869.9
47.5°	3740.5	3759.0
50°	3611.3	3629.7
52.5°	3449.6	3454.3
55°	3255.7	3274.1
57.5°	3047.8	3052.5
60°	2817.0	2830.8
62.5°	2572.2	2572.2
65°	2313.6	2322.8
67.5°	2045.8	2068.9
70°	1773.3	1777.9
72.5°	1505.4	1505.4
75°	1228.4	1233.0
77.5°	965.1	965.1
80°	715.8	720.4
82.5°	494.1	503.4
85°	309.4	309.4
87.5°	143.2	129.3
90°	64.7	64.7
92.5°	259.1	207.7
95°	903.0	747.2
97.5°	2163.7	1867.1
100°	3117.4	2764.1
102.5°	4055.6	3753.0
105°	5251.8	5089.1
107.5°	6035.3	6074.6
110°	6334.1	6503.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	6360.7	6621.0
115°	6192.0	6552.8
117.5°	5834.4	6234.6
120°	5546.1	5935.0
122.5°	5265.6	5649.1
125°	4865.2	5218.5
127.5°	4505.2	4803.2
130°	4292.9	4568.3
132.5°	4100.4	4347.0
135°	3836.6	4049.2
137.5°	3625.0	3798.9
140°	3479.7	3642.4
142.5°	3359.5	3499.4
145°	3179.1	3285.0
147.5°	3040.6	3128.3
150°	2953.4	3024.5
152.5°	2878.9	2932.6
155°	2793.2	2828.8
157.5°	2725.5	2750.5
160°	2685.1	2699.4
162.5°	2658.6	2672.2
165°	2620.4	2634.8
167.5°	2592.9	2599.0
170°	2585.4	2585.4
172.5°	2565.2	2559.9
175°	2553.1	2553.1
177.5°	2542.1	2536.1
180°	2536.1	2536.1



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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	5.24	6.05	6.27	7.09	8.49	18.43	19.24	19.46	20.28	21.68
	3H	5.94	6.67	6.98	7.72	9.14	20.27	21.00	21.31	22.05	23.47
	4H	6.24	6.93	7.29	7.98	9.40	20.92	21.61	21.97	22.66	24.09
	6H	6.48	7.12	7.54	8.18	9.61	21.35	21.99	22.41	23.04	24.48
	8H	6.55	7.16	7.62	8.23	9.66	21.47	22.08	22.54	23.15	24.58
	12H	6.57	7.14	7.64	8.21	9.67	21.54	22.12	22.61	23.18	24.64
4H	2H	12.46	13.15	13.51	14.20	15.62	18.70	19.39	19.76	20.44	21.87
	3H	14.02	14.60	15.08	15.68	17.11	20.74	21.32	21.81	22.40	23.84
	4H	14.11	14.64	15.18	15.71	17.17	21.51	22.04	22.58	23.11	24.57
	6H	14.12	14.57	15.20	15.67	17.12	22.05	22.51	23.13	23.60	25.06
	8H	14.09	14.52	15.17	15.61	17.08	22.22	22.64	23.30	23.73	25.20
	12H	14.05	14.43	15.15	15.53	17.01	22.31	22.70	23.41	23.80	25.27
8H	4H	15.55	15.98	16.64	17.07	18.54	21.57	21.99	22.65	23.08	24.55
	6H	15.79	16.15	16.90	17.27	18.74	22.20	22.55	23.30	23.68	25.15
	8H	15.81	16.12	16.92	17.23	18.72	22.42	22.73	23.53	23.84	25.33
	12H	15.78	16.05	16.89	17.16	18.68	22.57	22.84	23.68	23.95	25.47
12H	4H	15.70	16.08	16.80	17.18	18.66	21.52	21.90	22.62	23.00	24.48
	6H	16.05	16.36	17.16	17.47	18.96	22.18	22.49	23.29	23.60	25.09
	8H	16.12	16.39	17.24	17.50	19.02	22.41	22.68	23.53	23.79	25.32