

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: P938469

Luminaire Tested: SQ4-FB-150U-100D-935-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P938469
REPORT IS A COMBINATION OF REPORTS P933623 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FB-150U-100D-935-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L
Light Source: -
Ballast/Driver: -

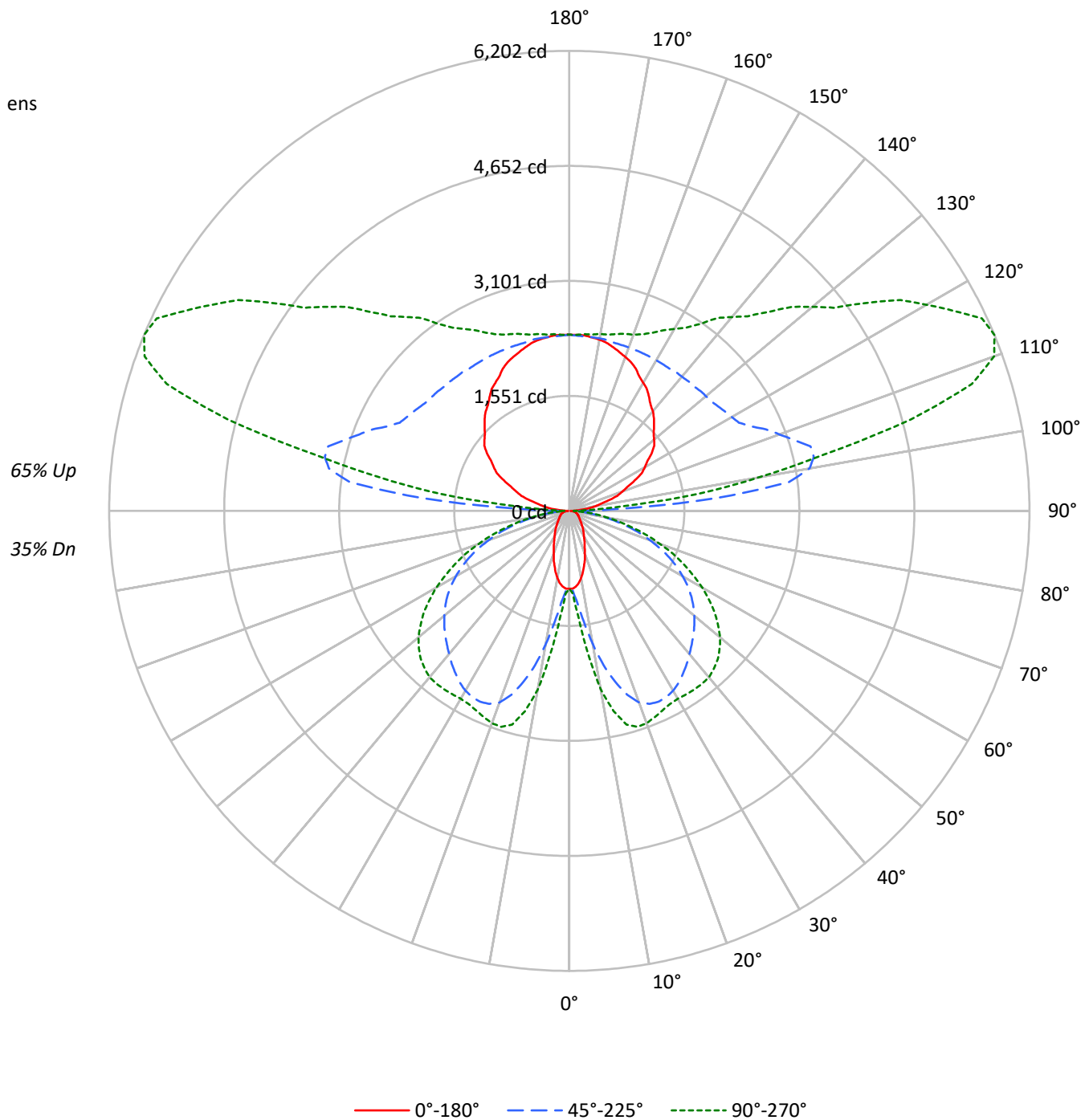
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23532.2 lumens
Efficiency: N/A
Efficacy: 108.3 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: Semi-Indirect

Input Watts (W): 217.2
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

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Luminous Intensity Polar Plot





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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.9	0.6
10°-20°	602.1	2.6
20°-30°	1053.2	4.5
30°-40°	1355.8	5.8
40°-50°	1514.3	6.4
50°-60°	1450.4	6.2
60°-70°	1149.4	4.9
70°-80°	675.9	2.9
80°-90°	196.8	0.8
90°-100°	1157.9	4.9
100°-110°	3044.1	12.9
110°-120°	3156.4	13.4
120°-130°	2531.8	10.8
130°-140°	1986.6	8.4
140°-150°	1524.8	6.5
150°-160°	1098.1	4.7
160°-170°	671.9	2.9
170°-180°	227.0	1.0
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0°-30°	1791.1	7.6
0°-40°	3146.9	13.4
0°-60°	6111.6	26.0
0°-90°	8133.8	34.6
90°-120°	7358.3	31.3
90°-150°	13401.5	56.9
90°-180°	15398.0	65.4
0°-180°	23532.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1050	1050	1050	1050	1050	
5°	1023	1098	1236	1398	1449	94
15°	766	1415	2384	2891	2982	213
25°	490	1604	2840	2965	2968	226
35°	331	1533	2675	2826	2938	207
45°	226	1222	2364	2708	2830	175
55°	162	777	2006	2330	2394	148
65°	128	412	1489	1675	1699	127
75°	95	253	817	898	902	99
85°	34	78	203	223	226	36
90°	16	45	121	61	61	15
95°	153	599	1994	1028	700	170
105°	548	831	3365	5109	4767	581
115°	974	1183	2696	5377	6138	962
125°	1355	1519	2452	4143	4888	1203
135°	1615	1778	2375	3345	3793	1249
145°	1873	1993	2345	2854	3077	1174
155°	2117	2176	2345	2575	2650	973
165°	2284	2315	2345	2438	2468	645
175°	2375	2375	2361	2391	2391	225
180°	2375	2375	2375	2375	2375	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1050.3	1050.3	1050.3	1050.3	1050.3	1050.3	1050.3	1050.3	1050.3	1050.3	1050.3
2.5°	1050.3	1050.3	1057.0	1060.4	1067.1	1070.5	1077.3	1084.0	1104.3	1107.7	1114.4
5°	1023.3	1036.7	1080.7	1097.5	1144.8	1209.0	1236.0	1279.9	1371.0	1398.0	1414.9
7.5°	982.7	1013.1	1121.1	1148.2	1266.3	1435.2	1506.2	1600.7	1745.9	1816.8	1874.2
10°	918.5	982.7	1175.2	1239.3	1431.9	1688.5	1820.2	1951.9	2171.4	2269.3	2306.4
12.5°	847.7	952.3	1232.6	1320.4	1597.3	1972.1	2130.9	2276.1	2526.0	2657.7	2677.9
15°	766.5	908.4	1286.6	1414.9	1772.9	2208.6	2384.2	2563.2	2796.2	2890.7	2914.4
17.5°	695.7	874.7	1337.3	1472.3	1908.0	2421.3	2600.3	2748.9	2938.0	3002.1	3019.1
20°	607.8	820.6	1371.0	1546.6	2049.8	2576.6	2748.9	2863.7	2992.0	3032.5	3039.3
22.5°	543.7	763.2	1391.3	1573.6	2144.4	2671.2	2816.4	2907.6	2995.4	3008.9	3012.2
25°	489.6	699.1	1387.9	1604.1	2225.4	2728.6	2840.1	2907.6	2958.2	2965.0	2965.0
27.5°	439.0	628.1	1374.4	1610.8	2286.3	2742.1	2829.9	2877.2	2900.8	2914.4	2914.4
30°	395.1	560.6	1340.6	1597.3	2313.3	2728.6	2799.5	2823.2	2846.8	2867.1	2877.2
32.5°	361.3	496.4	1290.0	1570.3	2316.6	2694.9	2745.5	2759.0	2792.8	2840.1	2856.9
35°	330.9	432.2	1232.6	1533.2	2296.3	2640.8	2674.6	2688.1	2755.6	2826.5	2850.2
37.5°	300.6	385.0	1158.3	1469.0	2266.0	2576.6	2600.3	2623.9	2728.6	2813.0	2840.1
40°	270.2	344.5	1070.5	1398.0	2218.7	2499.0	2519.2	2556.3	2694.9	2792.8	2819.8
42.5°	246.5	310.7	976.0	1323.8	2157.9	2411.2	2441.6	2495.6	2654.3	2759.0	2789.4
45°	226.3	276.9	874.7	1222.4	2080.2	2320.0	2363.9	2438.2	2607.0	2708.3	2735.3
47.5°	206.0	253.3	770.0	1117.8	1995.8	2228.8	2286.3	2370.6	2542.9	2640.8	2664.5
50°	189.1	229.6	665.2	1006.4	1904.6	2130.9	2198.4	2286.3	2461.9	2553.0	2583.4
52.5°	175.6	209.3	567.3	894.9	1799.9	2029.5	2107.3	2198.4	2363.9	2451.7	2472.0
55°	162.1	192.5	482.9	776.7	1691.9	1921.5	2005.9	2093.7	2255.8	2330.1	2343.6
57.5°	155.3	179.0	412.0	665.2	1577.1	1799.9	1894.5	1975.5	2127.5	2184.9	2198.4
60°	145.2	168.9	357.9	570.7	1452.1	1685.1	1766.2	1847.2	1975.5	2022.8	2033.0
62.5°	135.0	162.1	317.5	479.5	1323.8	1550.0	1631.1	1705.4	1813.5	1847.2	1860.7
65°	128.3	155.3	287.0	412.0	1192.1	1408.2	1489.2	1553.5	1641.2	1674.9	1681.8
67.5°	121.6	148.6	263.4	354.6	1060.4	1266.3	1327.2	1387.9	1455.5	1489.2	1492.6
70°	111.4	141.9	243.2	314.0	925.3	1104.3	1155.0	1219.1	1273.1	1290.0	1300.2
72.5°	104.7	131.7	229.6	283.6	786.8	949.0	996.2	1033.4	1080.7	1097.5	1097.5
75°	94.6	118.2	216.2	253.3	645.0	776.7	817.2	854.4	891.5	898.3	888.1
77.5°	84.4	104.7	185.7	212.7	503.2	614.6	648.4	668.6	699.1	705.8	709.2
80°	70.9	91.2	145.2	165.5	364.7	452.5	476.2	493.1	520.1	520.1	526.8
82.5°	54.0	70.9	104.7	118.2	246.5	310.7	330.9	341.1	357.9	357.9	357.9
85°	33.7	43.9	67.6	77.7	148.6	189.1	202.6	206.0	219.5	222.9	222.9
87.5°	16.9	23.6	43.9	47.3	77.7	97.9	97.9	104.7	104.7	101.3	97.9
90°	15.9	28.7	41.5	44.6	70.1	104.1	121.2	107.7	80.8	60.6	60.6
92.5°	63.7	172.1	280.6	307.7	432.6	599.0	682.3	597.9	429.3	302.9	290.9
95°	153.0	351.4	549.8	599.4	1064.4	1684.4	1994.4	1779.7	1350.3	1028.3	991.8
97.5°	264.6	439.6	614.6	658.4	1433.7	2467.5	2984.3	2848.7	2577.3	2373.8	2304.3
100°	350.7	509.4	668.1	707.8	1568.2	2715.2	3288.8	3298.7	3318.5	3333.4	3250.7
102.5°	424.0	572.1	720.2	757.3	1629.8	2793.2	3374.9	3547.8	3893.6	4152.9	4082.0
105°	548.4	673.8	799.3	830.6	1675.5	2802.1	3365.3	3752.9	4528.0	5109.4	5071.3
107.5°	676.0	792.9	909.8	939.0	1684.0	2677.3	3174.0	3714.6	4795.8	5606.8	5616.0
110°	762.0	867.6	973.2	999.6	1671.3	2566.8	3014.6	3619.0	4827.8	5734.3	5774.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	846.5	947.2	1047.8	1072.9	1671.8	2470.3	2869.5	3488.1	4725.2	5653.0	5713.9
115°	974.1	1066.9	1159.7	1182.9	1687.2	2359.6	2695.8	3291.7	4483.4	5377.2	5461.7
117.5°	1100.0	1184.3	1268.6	1289.7	1718.5	2290.3	2576.2	3114.0	4189.5	4996.2	5089.9
120°	1173.3	1252.7	1332.0	1351.9	1744.0	2266.9	2528.4	3019.7	4002.4	4739.5	4830.6
122.5°	1245.0	1325.1	1405.2	1425.2	1780.8	2254.7	2491.8	2934.2	3819.2	4482.9	4572.7
125°	1355.1	1428.0	1501.1	1519.3	1830.2	2244.7	2451.9	2827.8	3579.5	4143.3	4226.0
127.5°	1444.3	1518.0	1591.7	1610.1	1879.5	2238.8	2418.4	2741.1	3386.6	3870.7	3940.5
130°	1492.2	1571.5	1650.8	1670.7	1915.6	2242.3	2405.6	2692.9	3267.6	3698.5	3763.0
132.5°	1541.6	1620.9	1700.3	1720.1	1944.9	2244.6	2394.5	2651.7	3166.1	3551.9	3609.7
135°	1614.9	1687.1	1759.5	1777.5	1976.8	2242.5	2375.4	2590.8	3021.5	3344.6	3394.4
137.5°	1689.9	1761.4	1833.0	1850.9	2024.6	2256.3	2372.1	2554.2	2918.4	3191.6	3232.3
140°	1752.1	1817.9	1883.9	1900.3	2053.8	2258.6	2361.0	2518.3	2832.9	3068.8	3106.9
142.5°	1799.8	1860.8	1921.7	1936.9	2078.3	2266.7	2361.0	2499.2	2775.5	2982.8	3015.6
145°	1873.2	1926.4	1979.5	1992.7	2110.1	2266.7	2345.0	2458.0	2684.1	2853.6	2878.4
147.5°	1946.5	1998.2	2049.9	2062.9	2156.9	2282.3	2345.0	2434.0	2611.8	2745.2	2765.8
150°	1994.4	2041.1	2087.9	2099.6	2181.4	2290.5	2345.0	2420.2	2570.4	2683.0	2699.6
152.5°	2043.8	2079.2	2114.6	2123.4	2197.3	2295.8	2345.0	2409.2	2537.4	2633.6	2646.2
155°	2117.1	2143.4	2169.5	2176.1	2232.4	2307.5	2345.0	2396.1	2498.1	2574.7	2583.0
157.5°	2171.3	2196.8	2222.3	2228.7	2267.4	2319.1	2345.0	2384.7	2464.1	2523.6	2529.5
160°	2208.0	2227.8	2247.7	2252.6	2283.4	2324.5	2345.0	2379.0	2447.0	2498.1	2501.5
162.5°	2244.6	2259.5	2274.3	2278.1	2300.4	2330.1	2345.0	2373.8	2431.2	2474.2	2477.4
165°	2284.5	2297.9	2311.4	2314.8	2324.9	2338.3	2345.0	2365.6	2406.6	2437.5	2440.9
167.5°	2321.2	2327.6	2333.9	2335.5	2344.0	2355.4	2361.0	2374.4	2401.4	2421.6	2423.0
170°	2345.0	2351.4	2357.8	2359.4	2360.0	2360.6	2361.0	2374.4	2401.4	2421.6	2421.6
172.5°	2357.8	2359.2	2360.6	2361.0	2361.0	2361.0	2361.0	2371.6	2392.9	2408.9	2407.6
175°	2375.4	2375.4	2375.4	2375.4	2370.6	2364.2	2361.0	2367.7	2381.2	2391.3	2391.3
177.5°	2375.4	2375.4	2375.4	2375.4	2371.6	2366.7	2364.2	2369.5	2380.1	2388.1	2386.6
180°	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4	2375.4



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CANDELA DISTRIBUTION (continued):

	80°	90°
0°	1050.3	1050.3
2.5°	1121.1	1114.4
5°	1442.0	1448.7
7.5°	1941.8	1938.4
10°	2414.6	2444.9
12.5°	2759.0	2765.8
15°	2968.4	2981.9
17.5°	3049.4	3052.8
20°	3052.8	3046.1
22.5°	3015.7	3008.9
25°	2971.8	2968.4
27.5°	2931.2	2934.6
30°	2914.4	2924.5
32.5°	2914.4	2931.2
35°	2921.1	2938.0
37.5°	2917.7	2938.0
40°	2904.2	2927.8
42.5°	2867.1	2883.9
45°	2809.6	2829.9
47.5°	2735.3	2748.9
50°	2640.8	2654.3
52.5°	2522.6	2526.0
55°	2380.7	2394.3
57.5°	2228.8	2232.2
60°	2060.0	2070.1
62.5°	1881.0	1881.0
65°	1691.9	1698.6
67.5°	1496.0	1512.9
70°	1296.7	1300.2
72.5°	1100.9	1100.9
75°	898.3	901.7
77.5°	705.8	705.8
80°	523.5	526.8
82.5°	361.3	368.1
85°	226.3	226.3
87.5°	104.7	94.6
90°	60.6	60.6
92.5°	242.6	194.5
95°	845.8	699.8
97.5°	2026.6	1748.8
100°	2919.9	2589.0
102.5°	3798.6	3515.2
105°	4919.0	4766.7
107.5°	5652.8	5689.7
110°	5932.7	6091.5



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CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	5957.7	6201.5
115°	5799.6	6137.6
117.5°	5464.7	5839.5
120°	5194.7	5559.0
122.5°	4932.0	5291.2
125°	4556.9	4887.8
127.5°	4219.7	4498.8
130°	4020.9	4278.8
132.5°	3840.6	4071.5
135°	3593.5	3792.6
137.5°	3395.3	3558.2
140°	3259.2	3411.6
142.5°	3146.6	3277.6
145°	2977.7	3076.8
147.5°	2848.0	2930.1
150°	2766.3	2832.9
152.5°	2696.5	2746.8
155°	2616.2	2649.5
157.5°	2552.8	2576.2
160°	2514.9	2528.4
162.5°	2490.1	2502.9
165°	2454.4	2467.8
167.5°	2428.6	2434.3
170°	2421.6	2421.6
172.5°	2402.6	2397.7
175°	2391.3	2391.3
177.5°	2381.0	2375.4
180°	2375.4	2375.4



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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	3.50	4.26	4.57	5.34	6.81	16.69	17.45	17.76	18.53	20.00
	3H	4.19	4.88	5.28	5.96	7.45	18.52	19.21	19.61	20.30	21.79
	4H	4.49	5.14	5.58	6.22	7.72	19.17	19.82	20.26	20.91	22.40
	6H	4.73	5.33	5.83	6.42	7.93	19.60	20.20	20.70	21.29	22.80
	8H	4.80	5.37	5.90	6.47	7.98	19.72	20.29	20.82	21.40	22.90
	12H	4.81	5.35	5.92	6.45	7.98	19.79	20.33	20.90	21.43	22.96
4H	2H	10.71	11.36	11.81	12.44	13.94	16.95	17.60	18.05	18.69	20.18
	3H	12.26	12.81	13.37	13.92	15.43	18.99	19.53	20.10	20.65	22.16
	4H	12.35	12.85	13.47	13.96	15.49	19.76	20.26	20.87	21.36	22.89
	6H	12.36	12.79	13.48	13.92	15.44	20.29	20.72	21.41	21.85	23.37
	8H	12.33	12.73	13.45	13.85	15.39	20.46	20.86	21.58	21.98	23.52
	12H	12.28	12.65	13.42	13.78	15.32	20.55	20.91	21.68	22.04	23.59
8H	4H	13.79	14.19	14.91	15.31	16.85	19.81	20.21	20.93	21.33	22.87
	6H	14.03	14.36	15.17	15.52	17.06	20.44	20.77	21.58	21.93	23.47
	8H	14.05	14.34	15.19	15.48	17.04	20.66	20.95	21.81	22.09	23.65
	12H	14.01	14.27	15.16	15.41	17.00	20.80	21.06	21.95	22.19	23.79
12H	4H	13.93	14.30	15.07	15.43	16.97	19.76	20.12	20.89	21.25	22.80
	6H	14.29	14.58	15.44	15.72	17.28	20.42	20.71	21.57	21.85	23.41
	8H	14.35	14.61	15.51	15.75	17.34	20.65	20.90	21.80	22.04	23.63