

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: P937333

Luminaire Tested: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

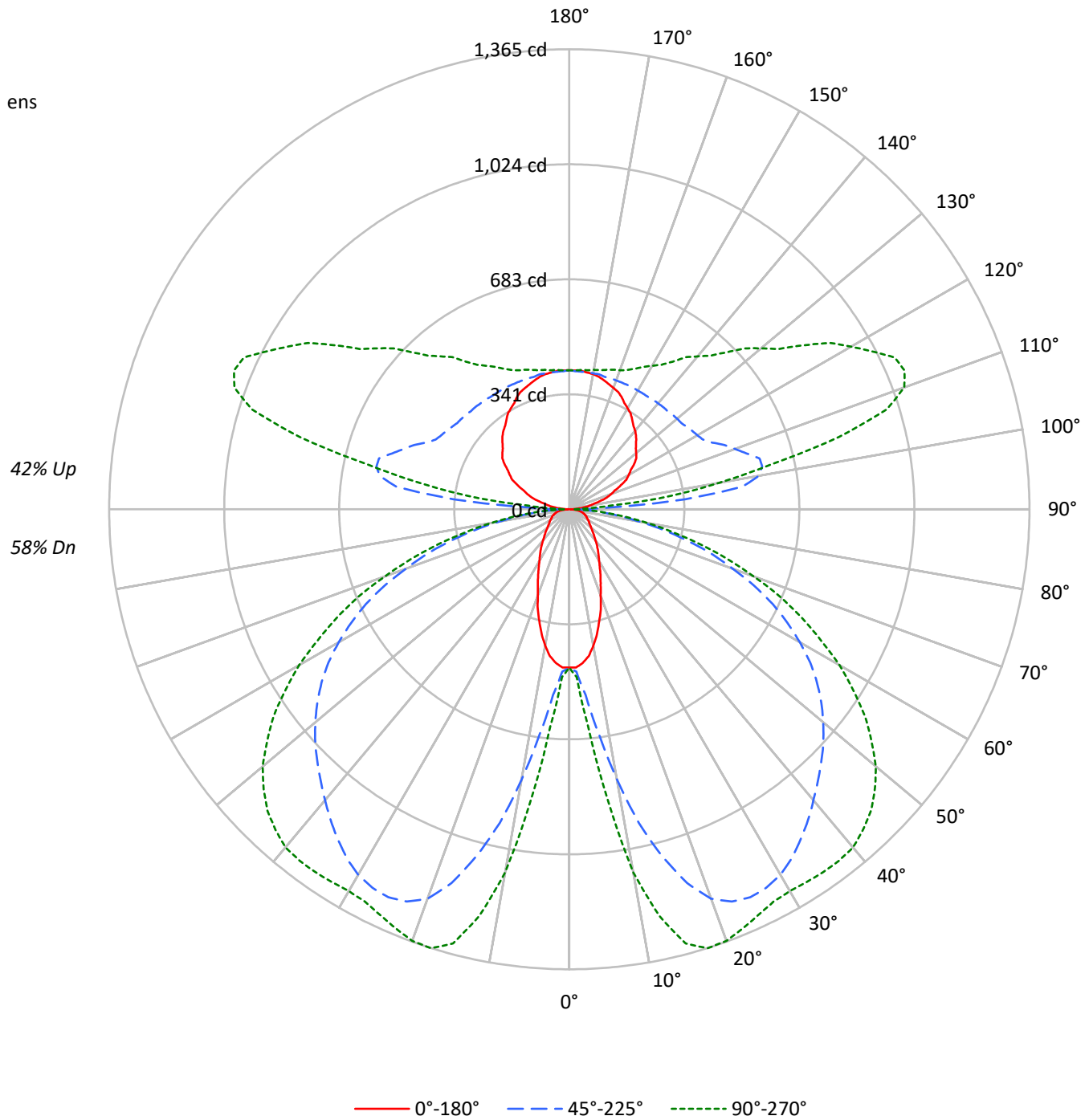
Test Method: LM-79-2019  
Report Number: P937333  
REPORT IS A COMBINATION OF REPORTS P933504 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continuous Roll L  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6308.2 lumens  
Efficiency: N/A  
Efficacy: 101.7 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 (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: P937333  
CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-4-3500K

### Luminous Intensity Polar Plot





TEST NUMBER: P937333

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-4-3500K

**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°	4358	4358	4358
5°	4253	5034	5859
10°	3854	7333	9713
15°	3272	9573	11729
20°	2661	11086	11953
25°	2216	11592	11711
30°	1866	11656	11688
35°	1648	11453	11990
40°	1434	11193	12303
45°	1296	10999	12351
50°	1186	10822	12147
55°	1132	10568	11608
60°	1156	10091	10758
65°	1196	9370	9589
70°	1264	8156	8101
75°	1387	6632	6323
80°	1484	4584	4261
85°	1250	2418	2180

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 90°  
 Vertical Angle: 45°  
 Luminance: 12351 cd/sqm



TEST NUMBER: P937333

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-4-3500K

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.8	1.0
10°-20°	269.3	4.3
20°-30°	471.0	7.5
30°-40°	606.4	9.6
40°-50°	677.3	10.7
50°-60°	648.7	10.3
60°-70°	514.1	8.1
70°-80°	302.3	4.8
80°-90°	85.6	1.4
90°-100°	201.0	3.2
100°-110°	528.4	8.4
110°-120°	547.9	8.7
120°-130°	439.5	7.0
130°-140°	344.8	5.5
140°-150°	264.7	4.2
150°-160°	190.6	3.0
160°-170°	116.6	1.8
170°-180°	39.4	0.6
0°-30°	801.1	12.7
0°-40°	1407.5	22.3
0°-60°	2733.5	43.3
0°-90°	3635.4	57.6
90°-120°	1277.2	20.2
90°-150°	2326.1	36.9
90°-180°	2673.0	42.4
0°-180°	6308.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	470	470	470	470	470	
5°	458	491	553	625	648	42
15°	343	633	1066	1293	1334	95
25°	219	717	1270	1326	1328	101
35°	148	686	1196	1264	1314	92
45°	101	547	1057	1211	1266	78
55°	72	347	897	1042	1071	66
65°	57	184	666	749	760	57
75°	42	113	366	402	403	44
85°	15	35	91	100	101	16
90°	3	8	21	10	10	3
95°	27	104	346	178	122	30
105°	95	144	584	887	827	101
115°	169	205	468	933	1065	167
125°	235	264	426	719	848	209
135°	280	308	412	581	658	217
145°	325	346	407	495	534	204
155°	368	378	407	447	460	169
165°	396	402	407	423	428	112
175°	412	412	410	415	415	39
180°	412	412	412	412	412	



TEST NUMBER: P937333

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	469.7	469.7	469.7	469.7	469.7	469.7	469.7	469.7	469.7	469.7	469.7
2.5°	469.7	469.7	472.7	474.2	477.3	478.8	481.8	484.9	493.9	495.4	498.4
5°	457.6	463.7	483.4	490.9	512.0	540.7	552.8	572.4	613.2	625.3	632.9
7.5°	439.5	453.1	501.5	513.5	566.4	641.9	673.7	716.0	780.9	812.6	838.3
10°	410.8	439.5	525.6	554.3	640.4	755.2	814.1	873.0	971.2	1015.0	1031.6
12.5°	379.1	426.0	551.3	590.6	714.5	882.1	953.1	1018.0	1129.8	1188.7	1197.7
15°	342.9	406.3	575.5	632.9	792.9	987.8	1066.3	1146.4	1250.6	1292.9	1303.5
17.5°	311.2	391.2	598.1	658.6	853.3	1082.9	1163.0	1229.5	1314.0	1342.8	1350.3
20°	271.9	367.0	613.2	691.8	916.8	1152.5	1229.5	1280.8	1338.2	1356.3	1359.4
22.5°	243.1	341.3	622.2	703.8	959.1	1194.7	1259.7	1300.5	1339.7	1345.8	1347.2
25°	219.0	312.7	620.8	717.4	995.4	1220.4	1270.3	1300.5	1323.1	1326.2	1326.2
27.5°	196.4	280.9	614.7	720.4	1022.5	1226.5	1265.7	1286.9	1297.4	1303.5	1303.5
30°	176.7	250.7	599.7	714.5	1034.6	1220.4	1252.1	1262.7	1273.2	1282.3	1286.9
32.5°	161.7	222.0	577.0	702.3	1036.2	1205.3	1228.0	1234.0	1249.1	1270.3	1277.8
35°	148.0	193.3	551.3	685.7	1027.0	1181.1	1196.2	1202.3	1232.4	1264.2	1274.8
37.5°	134.4	172.2	518.1	657.1	1013.5	1152.5	1163.0	1173.6	1220.4	1258.1	1270.3
40°	120.9	154.1	478.8	625.3	992.3	1117.6	1126.8	1143.4	1205.3	1249.1	1261.2
42.5°	110.2	139.0	436.5	592.1	965.1	1078.5	1092.0	1116.2	1187.2	1234.0	1247.6
45°	101.2	123.9	391.2	546.7	930.4	1037.7	1057.3	1090.5	1166.0	1211.4	1223.4
47.5°	92.1	113.3	344.4	500.0	892.6	996.9	1022.5	1060.3	1137.3	1181.1	1191.7
50°	84.6	102.7	297.5	450.1	851.8	953.1	983.3	1022.5	1101.0	1141.8	1155.5
52.5°	78.6	93.6	253.8	400.3	805.1	907.7	942.5	983.3	1057.3	1096.6	1105.6
55°	72.5	86.0	216.0	347.4	756.7	859.4	897.2	936.4	1008.9	1042.1	1048.2
57.5°	69.4	80.1	184.2	297.5	705.3	805.1	847.4	883.6	951.5	977.2	983.3
60°	65.0	75.5	160.1	255.3	649.5	753.7	790.0	826.2	883.6	904.8	909.2
62.5°	60.4	72.5	142.0	214.5	592.1	693.3	729.5	762.7	811.1	826.2	832.2
65°	57.4	69.4	128.4	184.2	533.2	629.8	666.1	694.8	734.1	749.2	752.2
67.5°	54.4	66.5	117.8	158.6	474.2	566.4	593.6	620.8	651.0	666.1	667.6
70°	49.8	63.5	108.7	140.5	413.8	493.9	516.6	545.2	569.4	577.0	581.5
72.5°	46.9	58.9	102.7	126.8	352.0	424.4	445.6	462.2	483.4	490.9	490.9
75°	42.3	52.8	96.7	113.3	288.5	347.4	365.5	382.1	398.7	401.8	397.2
77.5°	37.8	46.9	83.1	95.2	225.0	274.9	290.0	299.0	312.7	315.6	317.1
80°	31.7	40.8	65.0	74.0	163.1	202.4	213.0	220.5	232.6	232.6	235.7
82.5°	24.2	31.7	46.9	52.8	110.2	139.0	148.0	152.5	160.1	160.1	160.1
85°	15.1	19.6	30.2	34.7	66.5	84.6	90.6	92.1	98.2	99.7	99.7
87.5°	7.6	10.5	19.6	21.2	34.7	43.8	43.8	46.9	46.9	45.3	43.8
90°	2.8	5.0	7.2	7.8	12.2	18.1	21.1	18.7	14.0	10.5	10.5
92.5°	11.1	29.9	48.6	53.4	75.1	104.0	118.5	103.8	74.5	52.6	50.5
95°	26.6	61.1	95.5	104.1	184.8	292.3	346.2	308.8	234.3	178.4	172.1
97.5°	46.0	76.3	106.7	114.3	248.9	428.3	518.0	494.4	447.4	412.0	400.0
100°	60.9	88.4	116.0	122.8	272.2	471.3	570.8	572.5	576.0	578.6	564.2
102.5°	73.6	99.3	125.0	131.4	282.9	484.9	585.8	615.8	675.8	720.8	708.5
105°	95.2	116.9	138.7	144.2	290.8	486.4	584.1	651.4	786.0	886.8	880.2
107.5°	117.3	137.6	157.9	163.0	292.3	464.7	550.9	644.7	832.4	973.1	974.7
110°	132.3	150.6	169.0	173.5	290.1	445.5	523.3	628.1	837.9	995.3	1002.1



TEST NUMBER: P937333

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	146.9	164.4	181.8	186.2	290.2	428.8	498.1	605.5	820.1	981.2	991.8
115°	169.1	185.1	201.3	205.3	292.9	409.5	467.9	571.4	778.2	933.3	948.0
117.5°	190.9	205.6	220.2	223.9	298.3	397.5	447.1	540.5	727.1	867.2	883.4
120°	203.7	217.4	231.2	234.7	302.7	393.5	438.8	524.1	694.7	822.6	838.4
122.5°	216.1	230.0	243.9	247.3	309.0	391.3	432.5	509.2	662.9	778.1	793.7
125°	235.2	247.9	260.6	263.7	317.7	389.6	425.6	490.9	621.4	719.2	733.6
127.5°	250.7	263.5	276.3	279.5	326.3	388.6	419.8	475.9	587.9	671.9	684.0
130°	259.0	272.8	286.5	290.0	332.5	389.2	417.6	467.5	567.2	642.0	653.1
132.5°	267.6	281.4	295.1	298.6	337.6	389.6	415.6	460.2	549.6	616.5	626.5
135°	280.3	292.8	305.4	308.5	343.1	389.3	412.3	449.7	524.5	580.6	589.2
137.5°	293.3	305.7	318.1	321.3	351.4	391.7	411.8	443.4	506.6	554.0	561.0
140°	304.1	315.5	327.0	329.8	356.5	392.0	409.8	437.1	491.7	532.6	539.2
142.5°	312.4	322.9	333.5	336.2	360.7	393.5	409.8	433.8	481.7	517.7	523.4
145°	325.1	334.4	343.6	345.9	366.2	393.5	407.0	426.7	465.9	495.3	499.6
147.5°	337.9	346.8	355.8	358.0	374.4	396.1	407.0	422.5	453.4	476.5	480.1
150°	346.2	354.3	362.4	364.5	378.6	397.6	407.0	420.1	446.1	465.7	468.5
152.5°	354.7	360.9	367.0	368.6	381.4	398.5	407.0	418.2	440.4	457.1	459.3
155°	367.5	372.0	376.5	377.7	387.5	400.5	407.0	415.9	433.5	446.8	448.3
157.5°	376.9	381.3	385.8	386.9	393.6	402.6	407.0	413.9	427.7	438.0	439.0
160°	383.2	386.7	390.1	391.0	396.3	403.5	407.0	412.9	424.8	433.6	434.2
162.5°	389.6	392.2	394.8	395.4	399.3	404.4	407.0	412.0	421.9	429.4	430.0
165°	396.5	398.8	401.1	401.8	403.6	405.9	407.0	410.6	417.7	423.1	423.7
167.5°	402.8	403.9	405.1	405.3	406.9	408.8	409.8	412.1	416.9	420.3	420.6
170°	407.0	408.1	409.3	409.5	409.6	409.7	409.8	412.1	416.9	420.3	420.3
172.5°	409.3	409.5	409.7	409.8	409.8	409.8	409.8	411.7	415.3	418.1	417.9
175°	412.3	412.3	412.3	412.3	411.5	410.3	409.8	411.0	413.3	415.1	415.1
177.5°	412.3	412.3	412.3	412.3	411.7	410.8	410.3	411.2	413.1	414.5	414.3
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



TEST NUMBER: P937333

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°
0°	469.7	469.7
2.5°	501.5	498.4
5°	644.9	648.0
7.5°	868.5	867.0
10°	1079.9	1093.5
12.5°	1234.0	1237.0
15°	1327.7	1333.7
17.5°	1363.9	1365.4
20°	1365.4	1362.4
22.5°	1348.7	1345.8
25°	1329.1	1327.7
27.5°	1311.0	1312.5
30°	1303.5	1308.0
32.5°	1303.5	1311.0
35°	1306.5	1314.0
37.5°	1305.0	1314.0
40°	1298.9	1309.5
42.5°	1282.3	1289.8
45°	1256.6	1265.7
47.5°	1223.4	1229.5
50°	1181.1	1187.2
52.5°	1128.3	1129.8
55°	1064.8	1070.9
57.5°	996.9	998.4
60°	921.4	925.9
62.5°	841.3	841.3
65°	756.7	759.7
67.5°	669.1	676.7
70°	580.0	581.5
72.5°	492.4	492.4
75°	401.8	403.3
77.5°	315.6	315.6
80°	234.1	235.7
82.5°	161.7	164.6
85°	101.2	101.2
87.5°	46.9	42.3
90°	10.5	10.5
92.5°	42.1	33.7
95°	146.8	121.5
97.5°	351.8	303.6
100°	506.8	449.3
102.5°	659.3	610.1
105°	853.8	827.4
107.5°	981.2	987.6
110°	1029.7	1057.3





TEST NUMBER: P937333

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°
112.5°	1034.1	1076.4
115°	1006.7	1065.3
117.5°	948.5	1013.6
120°	901.6	964.8
122.5°	856.0	918.4
125°	791.0	848.3
127.5°	732.4	780.9
130°	697.9	742.7
132.5°	666.6	706.7
135°	623.8	658.3
137.5°	589.3	617.6
140°	565.7	592.2
142.5°	546.1	568.9
145°	516.8	534.1
147.5°	494.3	508.6
150°	480.1	491.7
152.5°	468.0	476.7
155°	454.1	459.9
157.5°	443.1	447.1
160°	436.5	438.8
162.5°	432.2	434.4
165°	426.0	428.4
167.5°	421.6	422.6
170°	420.3	420.3
172.5°	417.0	416.1
175°	415.1	415.1
177.5°	413.3	412.3
180°	412.3	412.3



TEST NUMBER: P937333

CATALOG NUMBER: SQ4-FB-075U-125D-92765-1D-UNV-STD-W-4-3500K

**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	6.77	7.75	7.65	8.66	9.81	19.91	20.89	20.79	21.80	22.95
	3H	7.49	8.37	8.38	9.29	10.46	21.74	22.63	22.64	23.54	24.72
	4H	7.79	8.63	8.70	9.55	10.74	22.38	23.22	23.29	24.14	25.33
	6H	8.05	8.82	8.97	9.75	10.95	22.81	23.58	23.73	24.51	25.71
	8H	8.12	8.86	9.05	9.80	11.00	22.93	23.66	23.85	24.61	25.81
	12H	8.14	8.84	9.08	9.78	11.01	22.99	23.69	23.93	24.63	25.86
4H	2H	13.98	14.81	14.89	15.74	16.92	20.20	21.04	21.11	21.96	23.15
	3H	15.56	16.26	16.48	17.21	18.42	22.24	22.94	23.17	23.90	25.10
	4H	15.66	16.30	16.59	17.25	18.48	23.01	23.65	23.94	24.59	25.82
	6H	15.68	16.23	16.63	17.20	18.43	23.54	24.09	24.49	25.06	26.29
	8H	15.66	16.18	16.61	17.14	18.38	23.70	24.22	24.65	25.18	26.42
	12H	15.62	16.09	16.59	17.07	18.32	23.79	24.26	24.76	25.24	26.49
8H	4H	17.10	17.62	18.05	18.59	19.83	23.08	23.59	24.03	24.56	25.80
	6H	17.35	17.78	18.33	18.79	20.03	23.70	24.13	24.68	25.14	26.38
	8H	17.37	17.75	18.36	18.75	20.01	23.91	24.29	24.90	25.29	26.55
	12H	17.35	17.68	18.34	18.67	19.98	24.05	24.39	25.05	25.38	26.69
12H	4H	17.25	17.72	18.22	18.70	19.95	23.04	23.50	24.01	24.49	25.74
	6H	17.61	17.99	18.59	18.98	20.24	23.68	24.06	24.67	25.06	26.32
	8H	17.68	18.02	18.67	19.01	20.31	23.91	24.25	24.90	25.24	26.54